CATÁLOGO 2026

CORTECH
Creando Soluciones

Herramientas de corte

Desde trabajo general hasta alto rendimiento en materiales difíciles.



Brocas, end mills, rimas y limas rotativas en HSS, cobalto y carburo sólido. Surtimos desde el taller de mantenimiento hasta líneas de producción CNC de alto volumen.

Brocas HSS
Trabajo general, cortas, largas y de cobalto, en medidas métricas y fraccionales.

Brocas de carburo
Alta velocidad y precisión en producción CNC, con o sin refrigeración interna.

Limas rotativas
Desbarbado y desbaste con herramienta neumática o eléctrica.

Rimas
Acabado de barrenos a tolerancia, rectas y helicoidales.

End mills
Cortadores de carburo y HSS de 2 a 6 filos: planos, de radio y de bola.

Juegos de brocas
Estuches completos para mantenimiento y taller.

MARCAS EN ESTA LÍNEA

CLEVELAND · OSG Royco · COBRA CARBIDE · AMC · GUHRING · CHAMPION CUTTING TOOL CORP · Member IMC Group Ingersoll Cutting Tools · WESTON TOOLS

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Fractional, Number, Letter and Metric Sizes

Recommended Tap Drill Sizes Based on Approximately 75% Thread

Inch	Decimal	Wire	mm	Tap sizes to be used with drills as indicated
	.0059	97	.15	
	.0063	96	.16	
	.0067	95	.17	
	.0071	94	.18	
	.0075	93	.19	
	.0079	92	.20	
	.0083	91	.21	
	.0087	90	.22	
	.0091	89	.23	
	.0094		.24	
	.0095	88		
	.0098		.25	
	.0100	87		
	.0102		.26	
	.0105	86		
	.0106		.27	
	.0110	85	.28	
	.0114		.29	
	.0115	84		
	.0118		.30	
	.0120	83		
	.0125	82		
	.0126		.32	
	.0130	81		
	.0134		.34	
	.0135	80		
	.0138		.35	
	.0142		.36	
	.0145	79		
	.0150		.38	
1/64	.0156			
	.0157		.40	
	.0160	78		
	.0165		.42	
	.0173		.44	
	.0177		.45	
	.0180	77		
	.0181		.46	
	.0189		.48	
	.0197		.50	
	.0200	76		
	.0210	75		
	.0217		.55	
	.0225	74		
	.0236		.60	
	.0240	73		
	.0250	72		
	.0256		.65	
	.0260	71		
	.0276		.70	
	.0280	70		
	.0292	69		
	.0295		.75	
	.0310	68		
1/32	.0312			
	.0315		.80	
	.0320	67		
	.0330	66		
	.0335		.85	
	.0350	65		
	.0354		.90	
	.0360	64		
	.0370	63		
	.0374		.95	
	.0380	62		
	.0390	61		
	.0394		1.00	
	.0400	60		
	.0410	59		
	.0413		1.05	
	.0420	58		
	.0430	57		
	.0433		1.10	
	.0453		1.15	
	.0465	56		#0-80
3/64	.0469		1.20	
	.0472			
	.0492		1.25	
	.0512		1.30	
	.0520	55		
	.0531		1.35	
	.0550	54		#1-64
	.0551		1.40	
	.0571		1.45	
	.0591		1.50	
	.0595	53		#1-72
	.0610		1.55	
1/16	.0625			
	.0630		1.60	
	.0635	52		
	.0650		1.65	
	.0669		1.70	
	.0670	51		#2-56
	.0689		1.75	
	.0700	50		#2-64
	.0709		1.80	
	.0728		1.85	
	.0730	49		
	.0748		1.90	
	.0760	48		#3-48
	.0768		1.95	
5/64	.0781			
	.0785	47		
	.0787		2.00	
	.0807		2.05	
	.0810	46		#3-56
	.0820	45		
	.0827		2.10	
	.0846		2.15	
	.0860	44		#4-40
	.0866		2.20	
	.0886		2.25	
	.0890	43		
	.0906		2.30	
	.0925		2.35	
	.0935	42		#4-48
3/32	.0938			
	.0945		2.40	
	.0960	41		
	.0965		2.45	
	.0980	40		#5-40
	.0984		2.50	
	.0995	39		
	.1015	38		#5-44
	.1024		2.60	
	.1040	37		
	.1063		2.70	
	.1065	36		#6-32
	.1083		2.75	
7/64	.1094			
	.1100	35		
	.1102		2.80	
	.1110	34		#6-40
	.1130	33		
	.1142		2.90	
	.1160	32		
	.1181		3.00	
	.1200	31		
	.1220		3.10	
1/8	.1250			5/32-32NS
	.1260		3.20	
	.1280		3.25	
	.1285	30		5/32-36NS
	.1299		3.30	
	.1339		3.40	
	.1360	29		#8-32
	.1378		3.50	
	.1405	28		
9/64	.1406			
	.1417		3.60	
	.1440	27		
	.1457		3.70	
	.1470	26		#10-24
	.1476		3.75	
	.1495	25		
	.1496		3.80	
	.1520	24		
	.1535		3.90	
	.1540	23		
5/32	.1562			
	.1570	22		#10-32
	.1575		4.00	
	.1590	21		
	.1610	20		
	.1614		4.10	
	.1654		4.20	
	.1660	19		
	.1673		4.25	
	.1693		4.30	
	.1695	18		
11/64	.1719			
	.1730	17		
	.1732		4.40	#12-24
	.1770	16		
	.1772		4.50	7/32-24NS
	.1800	15		
	.1811		4.60	#12-28
	.1820	14		
	.1850	13	4.70	
	.1870		4.75	
3/16	.1875			
	.1890	12	4.80	
	.1910	11		7/32-32NS
	.1929		4.90	
	.1935	10		
	.1960	9		
	.1969		5.00	
	.1990	8		
	.2008		5.10	
	.2010	7		
13/64	.2031			1/4-20
	.2040	6		
	.2047		5.20	
	.2055	5		
	.2067		5.25	
	.2087		5.30	
	.2090	4		
	.2126		5.40	
	.2130	3		
	.2165		5.50	1/4-28
7/32	.2188			
	.2205		5.60	
	.2210	2		
	.2244		5.70	
	.2264		5.75	
	.2280	1		
	.2283		5.80	
	.2323		5.90	
	.2340	A		
15/64	.2344			
	.2362		6.00	
	.2380	B		
	.2402		6.10	
	.2420	C		
	.2441		6.20	
	.2460	D		
	.2461		6.25	
	.2480		6.30	
	.2500	E		
1/4	.2520			
	.2559		6.50	
	.2570	F		
	.2598		6.60	5/16-18NC
	.2610	G		
	.2638		6.70	
17/64	.2656			
	.2657		6.75	
	.2660	H		
	.2677		6.80	
	.2717		6.90	5/16-24NF
	.2720	I		
	.2756		7.00	
	.2770	J		
	.2795		7.10	
	.2810	K		5/16-32NS
9/32	.2812			
	.2835		7.20	
	.2854		7.25	
	.2874		7.30	
	.2900	L		
	.2913		7.40	
	.2950	M		
	.2953		7.50	
19/64	.2969			
	.2992		7.60	
	.3020	N		
	.3031		7.70	
	.3051		7.75	
	.3071		7.80	
	.3110		7.90	3/8-16NC
5/16	.3125			
	.3150		8.00	
	.3160	O		
	.3189		8.10	
	.3228		8.20	
	.3230	P		
	.3248		8.25	
	.3268		8.30	
21/64	.3281			
	.3307		8.40	3/8-24NF
	.3320	Q		
	.3346		8.50	
	.3386		8.60	1/8-27 Pipe
	.3390	R		
	.3425		8.70	
11/32	.3438			
	.3445		8.75	
	.3465		8.80	
	.3480	S		
	.3504		8.90	
	.3543		9.00	
	.3580	T		
	.3583		9.10	
23/64	.3594			
	.3622		9.20	
	.3642		9.25	
	.3661		9.30	7/16-14NC
	.3680	U		
	.3701		9.40	
	.3740		9.50	
3/8	.3750			
	.3770	V		
	.3780		9.60	
	.3819		9.70	
	.3839		9.75	
	.3858		9.80	7/16-20
	.3860	W		
	.3898		9.90	
25/64	.3906			
	.3937		10.00	
	.3970	X		
	.4040	Y		
13/32	.4062			
	.4130	Z		
	.4134		10.50	1/2-13
27/64	.4219			
	.4331		11.00	1/4-18 Pipe
7/16	.4375			
	.4528		11.50	1/2-20
29/64	.4531			
15/32	.4688			
	.4724		12.00	9/16-12
31/64	.4844			
	.4921		12.50	
1/2	.5000			
	.5118		13.00	
33/64	.5156			9/16-18
17/32	.5312			5/8-11
	.5315		13.5	
35/64	.5469			
	.5512		14.0	
9/16	.5625			5/8-18NF
	.5709		14.5	
37/64	.5781			
	.5906		15.0	3/8-18 Pipe
19/32	.5938			
39/64	.6094			
	.6102		15.5	
5/8	.6250			11/16-16NS
	.6299		16.0	
41/64	.6406			
	.6496		16.5	
21/32	.6562			3/4-10NC
	.6693		17.0	
43/64	.6719			
11/16	.6875			3/4-16NF
45/64	.7031			
	.7087		18.0	
23/32	.7188			1/2-14 Pipe
	.7283		18.5	
47/64	.7344			
	.7480		19.0	
3/4	.7500			
49/64	.7656			7/8-9NC
21/64	.7677		19.5	
25/32	.7812			
	.7874		20.0	
51/64	.7969			
	.8071		20.5	
13/16	.8125			7/8-14NF
	.8268		21.0	
53/64	.8281			
27/32	.8438			
	.8465		21.5	
55/64	.8594			
	.8661		22.0	
7/8	.8750			1-8NC
	.8858		22.5	
57/64	.8906			
	.9055		23.0	
29/32	.9062			
59/64	.9219			3/4-14 Pipe
	.9252		23.5	
15/16	.9375			1-14 NF
	.9449		24.0	
61/64	.9531			
	.9646		24.5	
31/32	.9688			
	.9843		25.0	
63/64	.9844			1-1/8-7NC
1	1.0000			
	1.0039		25.5	
1-1/64	1.0156			
	1.0236		26.0	
1-1/32	1.0312			
	1.0433		26.5	
1-3-64	1.0469			1-1/8-12NF
1-1/16	1.0625			
	1.0630		27.0	
1-5/64	1.0781			
	1.0827		27.5	
1-3/32	1.0938			
	1.1024		28.0	
1-7/64	1.1094			1-1/4-7NC
	1.1220		28.5	
1-1/8	1.1250			
1-9/64	1.1406			
	1.1417		29.0	
1-5/32	1.1562			1-11-1/2 Pipe
	1.1614		29.5	
1-11/64	1.1719			1-1/4-12NF

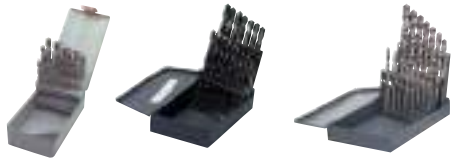
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118° Standard Point High Speed Steel Jobber Drill Sets

- Complete with index
- Drills ground from solid



			Morse Cutting Tools		Rapidkut		Precision Twist Drill		ProCut	
No. of Pieces	Set Range	Finish	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
13	1/16" - 1/4" by 64ths	Bright Finish	MT1218148	Price	AP50C164H	Price	-	-	-	-
13	1/16" - 1/4" by 64ths	Surface Treated	MT1218105	Price	-	-	-	-	AP50029B	Price
21	1/16" - 3/8" by 64ths	Bright Finish	MT1218143	Price	-	-	-	-	-	-
21	1/16" - 3/8" by 64ths	Surface Treated	MT1218100	Price	-	-	-	-	-	-
21	1/16" - 3/8" by 64ths	Roll Forged	-	-	-	-	-	-	AP50S21E	Price
15	1/16" - 1/2" by 32nds	Bright Finish	MT1218145	Price	AP50C163H	Price	PT2790163	Price	AP50C163SP	Price
15	1/16" - 1/2" by 32nds	Surface Treated	MT1218102	Price	AP50C163HB	Price	PT2799978	Price	AP50C163S	Price
29	1/16" - 1/2" by 64ths	Bright Finish	MT1218144	Price	AP50C162H	Price	PT2790162	Price	AP50E29P	Price
29	1/16" - 1/2" by 64ths	Surface Treated	MT1218101	Price	AP50C162HB	Price	PT2799977	Price	AP50E29	Price
29	1/16" - 1/2" by 64ths	TiN Coated	MT1218183	Price	-	-	-	-	AP50C162TI	Price
29	1/16" - 1/2" by 64ths	Bright Finish-LH	MT1218005†	316.92	-	-	-	-	-	-
29	1/16" - 1/2" by 64ths	Surface Treated	-	-	-	-	PT2799935†	392.70	-	-
13	1mm - 7mm by .5mm	Surface Treated	MT1218108	Price	-	-	-	-	-	-
25	1mm - 13mm by .5mm	Bright Finish	-	-	-	-	PT2799987	Price	AP50EC2AH	Price
25	1mm - 13mm by .5mm	Surface Treated	MT1218107	Price	-	-	-	-	AP50EC2AHB	Price

† Left hand

135° Heavy Duty Split Point High Speed Steel Jobber Drill Sets

- Complete with metal index
- Drills ground from solid



			Morse Cutting Tools		Rapidkut		Price	
No. of Pieces	Set Range	Finish	Order No.	Price	Order No.	Price	Order No.	Price
29	1/16" - 1/2" by 64ths	Gold & Black Finish	MT1218182	Price	AP50DY162HD	Price	-	-
29	1/16" - 1/2" by 64ths	Surface Treated	MT1218172	Price	AP50C162HDSP	Price	AP50E29HD	Price

118º Standard & 135° Split Point Wire Gage High Speed Steel Jobber Drill Sets

- Complete with index
- Drills ground from solid except roll forged

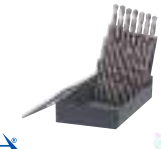


					Morse Cutting Tools		Rapidkut		Precision Twist Drill		ProCut	
No. of Pieces	Set Range	Finish	Point	Type	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
20	#61 - #80 Wire Gage	Bright Finish	118° Standard Point	Jobber Drills	-	-	AP50C61H	Price	PT2790161	Price	AP50E61	Price
20	#61 - #80 Wire Gage	Surface Treated	118° Standard Point	Jobber Drills	MT1218106	Price	-	-	PT2799981	Price	-	-
60	#1 - #60 Wire Gage	Bright Finish	118° Standard Point	Jobber Drills	MT1218146	Price	AP50C1H	Price	PT2790101	Price	AP50E60	Price
60	#1 - #60 Wire Gage	Surface Treated	118° Standard Point	Jobber Drills	MT1218103	Price	-	-	PT2799976	Price	-	-
60	#1 - #60 Wire Gage	Surface Treated	118° Standard Point	Roll Forged Jobber Drills	-	-	-	-	-	-	AP50ER60V	Price
60	#1 - #60 Wire Gage	Surface Treated	135° Split Point	Heavy Duty Jobber Drills	MT1218174	Price	AP50C1HDSP	Price	-	-	-	-

‡ In plastic pouch

118º Standard & 135° Split Point A-Z Letter Size High Speed Steel Jobber Drill Sets

- Complete with index
- Drills ground from solid



				Morse Cutting Tools		Rapidkut		Precision Twist Drill	
No. of Pieces	Set Range	Finish	Point	Order No.	Price	Order No.	Price	Order No.	Price
26	A - Z Letter Size	Bright Finish	118° Standard Point	MT1218147	Price	AP50CAZH	Price	PT2790126	Price
26	A - Z Letter Size	Surface Treated	118° Standard Point	MT1218104	Price	AP50CAZHB	Price	PT2799983	Price
26	A - Z Letter Size	Surface Treated	135° Split Point	-	-	AP50CAZHDSP	Price	-	-

29 Pc. 3/8" Reduced Shank High Speed Steel Jobber Drill Sets

- 118° Surface treated
- 1/16" - 1/2" by 64ths
- Complete with metal index
- Sizes over 3/8" have 3/8" shank



	Morse Cutting Tools		ProCut	
Material	Order No.	Price	Order No.	Price
High Speed Steel - Ground	MT1218400	Price	AP50S29	Price

3-in-1 118° Standard & 135° Split Point Combination High Speed Steel Jobber Drill Sets

- Complete with index
- Drills ground from solid





				Morse Cutting Tools		Rapidkut		Precision Twist Drill		ProCut	
No. of Pieces	Set Range	Finish	Point	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
114	3 in 1 Combo Set (1/16" - 1/2" by 64ths / 1-60 / 1mm thru 13mm x.5mm)	Bright Finish	118° Standard Point	-	-	-	-	PT2790114	Price	-	-
115	3 in 1 Combo Set (1/16" - 1/2" by 64ths / A-Z / 1-60)	Bright Finish	118° Standard Point	MT1218004	Price	AP50C123H	Price	PT2790123	Price	-	-
115	3 in 1 Combo Set (1/16" - 1/2" by 64ths / A-Z / 1-60)	Surface Treated	118° Standard Point	MT1218003	Price	AP50C123HB	Price	PT2799982	Price	AP50S115E	Price
115	3 in 1 Combo Set (1/16" - 1/2" by 64ths / A-Z / 1-60)	Surface Treated	135° Split Point	-	-	AP50C123HDSP	Price	-	-	-	-
115	3 in 1 Combo Set (1/16" - 1/2" by 64ths / A-Z / 1-60)	TiN Coated	118° Standard Point	-	-	-	-	-	-	AP50S115TI	Price

135° Heavy Duty Split Point Cobalt Jobber Drill Sets

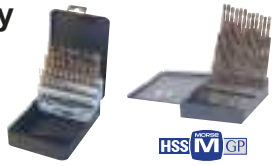
- Complete with index
- Drills ground from solid



			Morse Cutting Tools		Rapidkut		Precision Twist Drill		ProCut	
No. of Pieces	Set Range	Finish	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
13	1/16" - 1/4" by 64ths	Surface Treated	-	-	-	-	PT2799944	Price	-	-
15	1/16" - 1/2" by 32nds	Bronze Oxide	-	-	-	-	PT2790291	Price	-	-
15	1/16" - 1/2" by 32nds	Surface Treated	MT1218167	Price	-	-	-	-	-	-
21	1/16" - 3/8" by 64ths	Bronze Oxide	-	-	-	-	PT2799701	Price	-	-
25	1mm - 13mm by .5mm	Surface Treated	-	-	-	-	-	-	AP50COE25	Price
29	1/16" - 1/2" by 64ths	Bronze Oxide	-	-	AP50C162CO	Price	PT2790290	Price	AP50COE29	Price
29	1/16" - 1/2" by 64ths	Straw Finish	MT1218166	Price	-	-	-	-	-	-

135º Split Point Wire Gage Heavy Duty Cobalt Jobber Drill Sets

- Complete with index
- Drills ground from solid



				Morse Cutting Tools		Rapidkut		Precision Twist Drill		Price	
No. of Pieces	Set Range	Finish	Set Material	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
60	#1 - #60 Wire Gage	Bronze Oxide	Cobalt	-	-	AP50C1CO	Price	PT2790600	Price	AP50COE60	Price
60	#1 - #60 Wire Gage	Surface Treated	Cobalt	MT1218168	Price	-	-	-	-	-	-

Note: Sizes #53 thru #60 are not split point

135° Split Point A-Z Letter Size Heavy Duty Cobalt Jobber Drill Sets

- Complete with index
- Drills ground from solid



				Morse Cutting Tools		Rapidkut		Precision Twist Drill	
No. of Pieces	Set Range	Finish	Set Material	Order No.	Price	Order No.	Price	Order No.	Price
26	A - Z Letter Size	Bronze Oxide	Cobalt	-	-	AP50CAZCO	Price	PT2790292	Price
26	A - Z Letter Size	Surface Treated	Cobalt	MT1218169	Price	-	-	-	-

3-in-1 135° Split Point Combination Cobalt Jobber Drill Sets

- Complete with index
- Drills ground from solid



				Rapidkut		Precision Twist Drill		ProCut	
No. of Pieces	Set Range	Finish	Set Material	Order No.	Price	Order No.	Price	Order No.	Price
114	3 in 1 Combo Set (1/16" - 1/2" by 64ths / 1-60 / 1mm thru 13mm x.5mm)	Bronze Oxide	Cobalt	-	-	PT2799705	Price	-	-
115	3 in 1 Combo Set (1/16" - 1/2" by 64ths / A-Z / 1-60)	Bronze Oxide	Cobalt	AP50CO123H	Price	PT2799706	Price	AP50COE115	Price

Note: Sizes #53 thru #60 are not split point

118º Standard Point High Speed Steel Screw Machine Drill Sets

- Complete with index
- Drills ground from solid



		Morse Cutting Tools		Price		Precision Twist Drill		ProCut	
No. of Pieces	Set Range	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
13	1/16" - 1/4" by 64ths	MT1218181	Price	-	-	-	-	-	-
15	1/16" - 1/2" by 32nds	MT1218178	Price	-	-	-	-	-	-
26	A - Z Letter Size	-	-	AP50S72H	Price	PT2790173	Price	-	-
29	1/16" - 1/2" by 64ths	MT1218177	Price	AP50S70H	Price	PT2790170	Price	AP50S70SM	Price
60	#1 - #60 Wire Gage	-	-	AP50S71H	Price	PT2790174	Price	AP50S71SM	Price
115	3 in 1 Combo Set (1/16" - 1/2" by 64ths / A-Z / 1-60)	-	-	AP50SM115H	Price	-	-	-	-

135º Split Point Heavy Duty Screw Machine Drill Sets

- Complete with index
- Drills ground from solid



				Rapidkut		Precision Twist Drill		ProCut	
No. of Pieces	Set Range	Finish	Set Material	Order No.	Price	Order No.	Price	Order No.	Price
26	A - Z Letter Size	Bronze Oxide	Cobalt	AP50S72CO	Price	PT2799961	Price	-	-
26	A - Z Letter Size	Surface Treated	High Speed Steel	AP50S72HDSP	Price	-	-	-	-
29	1/16" - 1/2" by 64ths	Bronze Oxide	Cobalt	AP50S70CO	Price	PT2799962	Price	AP50COS29	Price
29	1/16" - 1/2" by 64ths	Surface Treated	High Speed Steel	AP50S70HDSP	Price	-	-	AP50S70SMHD	Price
60	#1 - #60 Wire Gage	Bronze Oxide	Cobalt	AP50S71CO	Price	PT2799960	Price	-	-

Note: Sizes #53 thru #60 are not split point

RAPIDKUT® 118° Standard Point Carbide Tipped Jobber Length Drill Sets

- Heavy duty construction
- Used in drilling of cast iron, metals and many composite materials
- Complete with index
- **NOT FOR STEEL**



No. of Pieces	Set Range	Order No.	Price
13	1/8" - 1/2" by 32nds	AP50C162CT	Price
26	A - Z Letter Size	AP50CAZCT	Price
32	#1 - #32	AP50C1CT	Price

PROCUT Taper Shank Drill Sets

High Speed Steel

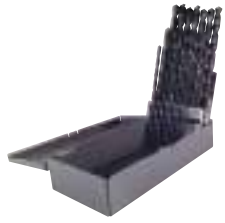
- All drills furnished with standard taper shanks
- Complete with index



No. of Pieces	Set Range	Order No.	Price
16	33/64" - 3/4" by 64ths	AP50T31	Price
16	49/64" - 1" by 64ths	AP50T32	Price

Taper Length Drill Sets

- High speed steel
- Ground from solid
- 118° Bright finish
- Complete with index
- Longer length drills for deep hole applications



		Morse Cutting Tools		Precision Twist Drill		ProCut	
No. of Pieces	Set Range	Order No.	Price	Order No.	Price	Order No.	Price
29	1/16" - 1/2" by 64ths	MT1218184†	323.24	PT2790154	Price	AP50104E	Price

† Surface treated

Jobber Drills

High Speed Steel • 118° Standard Point • Bright Finish

- General purpose drills suitable for most applications
- Ground from solid
- Bright finish - works well in a wide variety of materials
- Polished flutes help with chip evacuation
- Designed for high production drilling of a wide variety of materials and under many different operating conditions
- Morse List #1330B
- Precision Twist List #R10P



MORSE CUTTING TOOLS — Designed for production drilling in a wide variety of materials. Consistent performance for lower overall tooling costs. Made in USA.

PROCUT — General purpose cutting tools, imported from world class manufacturers, that provide productivity at the most economical prices.

Precision - Performance - Productivity — Cutting tools engineered for application versatility and maximum productivity.

RAPIDKUT — Manufactured in the USA to exacting tolerances. High quality tooling at the most competitive price in the industry!

				Morse Cutting Tools		Rapidkut		Precision Twist Drill		ProCut	
Size (in.)	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/64	.0156	3/16	3/4	MT1011553	Price	AC50001P	Price	PT1010601	Price	AC40001	Price
1/32	.0312	1/2	1-3/8	MT1011565	Price	AC50002P	Price	PT1010602	Price	AC40002	Price
3/64	.0469	3/4	1-3/4	MT1011578	Price	AC50003P	Price	PT1010603	Price	AC40003	Price
1/16	.0625	7/8	1-7/8	MT1011582	Price	AC50004P	Price	PT1010604	Price	AC40004	Price
5/64	.0781	1	2	MT1011588	Price	AC50005P	Price	PT1010605	Price	AC40005	Price
3/32	.0938	1-1/4	2-1/4	MT1011595	Price	AC50006P	Price	PT1010606	Price	AC40006	Price
7/64	.1094	1-1/2	2-5/8	MT1011602	Price	AC50007P	Price	PT1010607	Price	AC40007	Price
1/8	.1250	1-5/8	2-3/4	MT1011608	Price	AC50008P	Price	PT1010608	Price	AC40008	Price
9/64	.1406	1-3/4	2-7/8	MT1011612	Price	AC50009P	Price	PT1010609	Price	AC40009	Price
5/32	.1562	2	3-1/8	MT1011618	Price	AC50010P	Price	PT1010610	Price	AC40010	Price
11/64	.1719	2-1/8	3-1/4	MT1011624	Price	AC50011P	Price	PT1010611	Price	AC40011	Price
3/16	.1875	2-5/16	3-1/2	MT1011630	Price	AC50012P	Price	PT1010612	Price	AC40012	Price
13/64	.2031	2-7/16	3-5/8	MT1011637	Price	AC50013P	Price	PT1010613	Price	AC40013	Price
7/32	.2188	2-1/2	3-3/4	MT1011642	Price	AC50014P	Price	PT1010614	Price	AC40014	Price
15/64	.2344	2-5/8	3-7/8	MT1011646	Price	AC50015P	Price	PT1010615	Price	AC40015	Price
1/4	.2500	2-3/4	4	MT1011650	Price	AC50016P	Price	PT1010616	Price	AC40016	Price
17/64	.2656	2-7/8	4-1/8	MT1011654	Price	AC50017P	Price	PT1010617	Price	AC40017	Price
9/32	.2812	2-15/16	4-1/4	MT1011659	Price	AC50018P	Price	PT1010618	Price	AC40018	Price
19/64	.2969	3-1/16	4-3/8	MT1011662	Price	AC50019P	Price	PT1010619	Price	AC40019	Price
5/16	.3125	3-3/16	4-1/2	MT1011664	Price	AC50020P	Price	PT1010620	Price	AC40020	Price
21/64	.3281	3-5/16	4-5/8	MT1011667	Price	AC50021P	Price	PT1010621	Price	AC40021	Price
11/32	.3438	3-7/16	4-3/4	MT1011670	Price	AC50022P	Price	PT1010622	Price	AC40022	Price
23/64	.3594	3-1/2	4-7/8	MT1011673	Price	AC50023P	Price	PT1010623	Price	AC40023	Price
3/8	.3750	3-5/8	5	MT1011675	Price	AC50024P	Price	PT1010624	Price	AC40024	Price
25/64	.3906	3-3/4	5-1/8	MT1011678	Price	AC50025P	Price	PT1010625	Price	AC40025	Price
13/32	.4062	3-7/8	5-1/4	MT1011681	Price	AC50026P	Price	PT1010626	Price	AC40026	Price
27/64	.4219	3-15/16	5-3/8	MT1011683	Price	AC50027P	Price	PT1010627	Price	AC40027	Price
7/16	.4375	4-1/16	5-1/2	MT1011684	Price	AC50028P	Price	PT1010628	Price	AC40028	Price
29/64	.4531	4-3/16	5-5/8	MT1011685	Price	AC50029P	Price	PT1010629	Price	AC40029	Price
15/32	.4688	4-5/16	5-3/4	MT1011686	Price	AC50030P	Price	PT1010630	Price	AC40030	Price
31/64	.4844	4-3/8	5-7/8	MT1011687	Price	AC50031P	Price	PT1010631	Price	AC40031	Price
1/2	.5000	4-1/2	6	MT1011688	Price	AC50032P	Price	PT1010632	Price	AC40032	Price
33/64	.5156	4-13/16	6-5/8	-	-	-	-	PT1010633	Price	-	-
17/32	.5312	4-13/16	6-5/8	-	-	-	-	PT1010634	Price	-	-
35/64	.5469	4-13/16	6-5/8	-	-	-	-	PT1010635	Price	-	-
9/16	.5625	4-13/16	6-5/8	-	-	-	-	PT1010636	Price	-	-
37/64	.5781	4-13/16	6-5/8	-	-	-	-	PT1010637	Price	-	-
19/32	.5938	5-3/16	7-1/8	-	-	-	-	PT1010638	Price	AC40038	Price
39/64	.6094	5-3/16	7-1/8	-	-	-	-	PT1010639	Price	-	-
5/8	.6250	5-3/16	7-1/8	-	-	-	-	PT1010640	Price	-	-
41/64	.6406	5-3/16	7-1/8	-	-	-	-	PT1010641	Price	-	-
21/32	.6562	5-3/16	7-1/8	-	-	-	-	PT1010642	Price	-	-
43/64	.6719	5-5/8	7-5/8	-	-	-	-	PT1010643	Price	-	-
11/16	.6875	5-5/8	7-5/8	-	-	-	-	PT1010644	Price	-	-

Jobber Drills

High Speed Steel • 118° Standard Point • Bright Finish

- General purpose drills suitable for most applications
- Ground from solid
- Bright finish - works well in a wide variety of materials
- Polished flutes help with chip evacuation
- Morse List #1340B
- Precision Twist List #R18P



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				Morse Cutting Tools		Rapidkut		Precision Twist Drill		ProCut	
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1	.2280	2-5/8	3-7/8	MT1011644	Price	AC50101P	Price	PT1018601	Price	AC40101	Price
2	.2210	2-5/8	3-7/8	MT1011643	Price	AC50102P	Price	PT1018602	Price	AC40102	Price
3	.2130	2-1/2	3-3/4	MT1011641	Price	AC50103P	Price	PT1018603	Price	AC40103	Price
4	.2090	2-1/2	3-3/4	MT1011640	Price	AC50104P	Price	PT1018604	Price	AC40104	Price
5	.2055	2-1/2	3-3/4	MT1011639	Price	AC50105P	Price	PT1018605	Price	AC40105	Price
6	.2040	2-1/2	3-3/4	MT1011638	Price	AC50106P	Price	PT1018606	Price	AC40106	Price
7	.2010	2-7/16	3-5/8	MT1011636	Price	AC50107P	Price	PT1018607	Price	AC40107	Price
8	.1990	2-7/16	3-5/8	MT1011635	Price	AC50108P	Price	PT1018608	Price	AC40108	Price
9	.1960	2-7/16	3-5/8	MT1011634	Price	AC50109P	Price	PT1018609	Price	AC40109	Price
10	.1935	2-7/16	3-5/8	MT1011633	Price	AC50110P	Price	PT1018610	Price	AC40110	Price
11	.1910	2-5/16	3-1/2	MT1011632	Price	AC50111P	Price	PT1018611	Price	AC40111	Price
12	.1890	2-5/16	3-1/2	MT1011631	Price	AC50112P	Price	PT1018612	Price	AC40112	Price
13	.1850	2-5/16	3-1/2	MT1011629	Price	AC50113P	Price	PT1018613	Price	AC40113	Price
14	.1820	2-3/16	3-3/8	MT1011628	Price	AC50114P	Price	PT1018614	Price	AC40114	Price
15	.1800	2-3/16	3-3/8	MT1011627	Price	AC50115P	Price	PT1018615	Price	AC40115	Price
16	.1770	2-3/16	3-3/8	MT1011626	Price	AC50116P	Price	PT1018616	Price	AC40116	Price
17	.1730	2-3/16	3-3/8	MT1011625	Price	AC50117P	Price	PT1018617	Price	AC40117	Price
18	.1695	2-1/8	3-1/4	MT1011623	Price	AC50118P	Price	PT1018618	Price	AC40118	Price
19	.1660	2-1/8	3-1/4	MT1011622	Price	AC50119P	Price	PT1018619	Price	AC40119	Price
20	.1610	2-1/8	3-1/4	MT1011621	Price	AC50120P	Price	PT1018620	Price	AC40120	Price
21	.1590	2-1/8	3-1/4	MT1011620	Price	AC50121P	Price	PT1018621	Price	AC40121	Price
22	.1570	2	3-1/8	MT1011619	Price	AC50122P	Price	PT1018622	Price	AC40122	Price
23	.1540	2	3-1/8	MT1011617	Price	AC50123P	Price	PT1018623	Price	AC40123	Price
24	.1520	2	3-1/8	MT1011616	Price	AC50124P	Price	PT1018624	Price	AC40124	Price
25	.1495	1-7/8	3	MT1011615	Price	AC50125P	Price	PT1018625	Price	AC40125	Price
26	.1470	1-7/8	3	MT1011614	Price	AC50126P	Price	PT1018626	Price	AC40126	Price
27	.1440	1-7/8	3	MT1011613	Price	AC50127P	Price	PT1018627	Price	AC40127	Price
28	.1405	1-3/4	2-7/8	MT1011611	Price	AC50128P	Price	PT1018628	Price	AC40128	Price
29	.1360	1-3/4	2-7/8	MT1011610	Price	AC50129P	Price	PT1018629	Price	AC40129	Price
30	.1285	1-5/8	2-3/4	MT1011609	Price	AC50130P	Price	PT1018630	Price	AC40130	Price
31	.1200	1-5/8	2-3/4	MT1011607	Price	AC50131P	Price	PT1018631	Price	AC40131	Price
32	.1160	1-5/8	2-3/4	MT1011606	Price	AC50132P	Price	PT1018632	Price	AC40132	Price
33	.1130	1-1/2	2-5/8	MT1011605	Price	AC50133P	Price	PT1018633	Price	AC40133	Price
34	.1110	1-1/2	2-5/8	MT1011604	Price	AC50134P	Price	PT1018634	Price	AC40134	Price
35	.1100	1-1/2	2-5/8	MT1011603	Price	AC50135P	Price	PT1018635	Price	AC40135	Price
36	.1065	1-7/16	2-1/2	MT1011601	Price	AC50136P	Price	PT1018636	Price	AC40136	Price
37	.1040	1-7/16	2-1/2	MT1011600	Price	AC50137P	Price	PT1018637	Price	AC40137	Price
38	.1015	1-7/16	2-1/2	MT1011599	Price	AC50138P	Price	PT1018638	Price	AC40138	Price
39	.0995	1-3/8	2-3/8	MT1011598	Price	AC50139P	Price	PT1018639	Price	AC40139	Price
40	.0980	1-3/8	2-3/8	MT1011597	Price	AC50140P	Price	PT1018640	Price	AC40140	Price
41	.0960	1-3/8	2-3/8	MT1011596	Price	AC50141P	Price	PT1018641	Price	AC40141	Price
42	.0935	1-1/4	2-1/4	MT1011594	Price	AC50142P	Price	PT1018642	Price	AC40142	Price
43	.0890	1-1/4	2-1/4	MT1011593	Price	AC50143P	Price	PT1018643	Price	AC40143	Price
44	.0860	1-1/8	2-1/8	MT1011592	Price	AC50144P	Price	PT1018644	Price	AC40144	Price
45	.0820	1-1/8	2-1/8	MT1011591	Price	AC50145P	Price	PT1018645	Price	AC40145	Price
46	.0810	1-1/8	2-1/8	MT1011590	Price	AC50146P	Price	PT1018646	Price	AC40146	Price
47	.0785	1	2	MT1011589	Price	AC50147P	Price	PT1018647	Price	AC40147	Price
48	.0760	1	2	MT1011587	Price	AC50148P	Price	PT1018648	Price	AC40148	Price
49	.0730	1	2	MT1011586	Price	AC50149P	Price	PT1018649	Price	AC40149	Price
50	.0700	1	2	MT1011585	Price	AC50150P	Price	PT1018650	Price	AC40150	Price
51	.0670	1	2	MT1011584	Price	AC50151P	Price	PT1018651	Price	AC40151	Price
52	.0635	7/8	1-7/8	MT1011583	Price	AC50152P	Price	PT1018652	Price	AC40152	Price
53	.0595	7/8	1-7/8	MT1011581	Price	AC50153P	Price	PT1018653	Price	AC40153	Price
54	.0550	7/8	1-7/8	MT1011580	Price	AC50154P	Price	PT1018654	Price	AC40154	Price
55	.0520	7/8	1-7/8	MT1011579	Price	AC50155P	Price	PT1018655	Price	AC40155	Price
56	.0465	3/4	1-3/4	MT1011577	Price	AC50156P	Price	PT1018656	Price	AC40156	Price
57	.0430	3/4	1-3/4	MT1011576	Price	AC50157P	Price	PT1018657	Price	AC40157	Price
58	.0420	11/16	1-5/8	MT1011575	Price	AC50158P	Price	PT1018658	Price	AC40158	Price
59	.0410	11/16	1-5/8	MT1011574	Price	AC50159P	Price	PT1018659	Price	AC40159	Price
60	.0400	11/16	1-5/8	MT1011573	Price	AC50160P	Price	PT1018660	Price	AC40160	Price

Jobber Drills

High Speed • 118° Standard Point • Bright Finish

All drills are ground from the solid

- Morse List #1340B
- Precision Twist List #R18P



				Morse Cutting Tools		Rapidkut		Precision Twist Drill		ProCut	
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
61	.0390	11/16	1-5/8	**MT1011572**	Price	**AC50161P**	Price	**PT1018661**	Price	**AC40161**	Price
62	.0380	5/8	1-1/2	**MT1011571**	Price	**AC50162P**	Price	**PT1018662**	Price	**AC40162**	Price
63	.0370	5/8	1-1/2	**MT1011570**	Price	**AC50163P**	Price	**PT1018663**	Price	**AC40163**	Price
64	.0360	5/8	1-1/2	**MT1011569**	Price	**AC50164P**	Price	**PT1018664**	Price	**AC40164**	Price
65	.0350	5/8	1-1/2	**MT1011568**	Price	**AC50165P**	Price	**PT1018665**	Price	**AC40165**	Price
66	.0330	1/2	1-3/8	**MT1011567**	Price	**AC50166P**	Price	**PT1018666**	Price	**AC40166**	Price
67	.0320	1/2	1-3/8	**MT1011566**	Price	**AC50167P**	Price	**PT1018667**	Price	**AC40167**	Price
68	.0310	1/2	1-3/8	**MT1011564**	Price	**AC50168P**	Price	**PT1018668**	Price	**AC40168**	Price
69	.0292	1/2	1-3/8	**MT1011563**	Price	**AC50169P**	Price	**PT1018669**	Price	**AC40169**	Price
70	.0280	3/8	1-1/4	**MT1011562**	Price	**AC50170P**	Price	**PT1018670**	Price	**AC40170**	Price
71	.0260	3/8	1-1/4	**MT1011561**	Price	**AC50171P**	Price	**PT1018671**	Price	**AC40171**	Price
72	.0250	5/16	1-1/8	**MT1011560**	Price	**AC50172P**	Price	**PT1018672**	Price	**AC40172**	Price
73	.0240	5/16	1-1/8	**MT1011559**	Price	**AC50173P**	Price	**PT1018673**	Price	**AC40173**	Price
74	.0225	1/4	1	**MT1011558**	Price	**AC50174P**	Price	**PT1018674**	Price	**AC40174**	Price
75	.0210	1/4	1	**MT1011557**	Price	**AC50175P**	Price	**PT1018675**	Price	**AC40175**	Price
76	.0200	3/16	7/8	**MT1011556**	Price	**AC50176P**	Price	**PT1018676**	Price	**AC40176**	Price
77	.0180	3/16	7/8	**MT1011555**	Price	**AC50177P**	Price	**PT1018677**	Price	**AC40177**	Price
78	.0160	3/16	7/8	**MT1011554**	Price	**AC50178P**	Price	**PT1018678**	Price	**AC40178**	Price
79	.0145	1/8	3/4	**MT1011552**	Price	**AC50179P**	Price	**PT1018679**	Price	**AC40179**	Price
80	.0135	1/8	3/4	**MT1011551**	Price	**AC50180P**	Price	**PT1018680**	Price	**AC40180**	Price
81	.0130	3/32	3/4	-	-	-	-	**PT1018681**	Price	-	-
82	.0125	3/32	3/4	-	-	-	-	**PT1018682**	Price	-	-
83	.0120	3/32	3/4	-	-	-	-	**PT1018683**	Price	-	-
84	.0115	3/32	3/4	-	-	-	-	**PT1018684**	Price	-	-
85	.0110	3/32	3/4	-	-	-	-	**PT1018685**	Price	-	-
86	.0105	3/32	3/4	-	-	-	-	**PT1018686**	Price	-	-
87	.0100	5/64	3/4	-	-	-	-	**PT1018687**	Price	-	-
88	.0095	5/64	3/4	-	-	-	-	**PT1018688**	Price	-	-
89	.0091	5/64	3/4	-	-	-	-	**PT1018689**	Price	-	-
90	.0087	5/64	3/4	-	-	-	-	**PT1018690**	Price	-	-
91	.0083	5/64	3/4	-	-	-	-	**PT1018691**	Price	-	-
92	.0079	1/16	3/4	-	-	-	-	**PT1018692**	Price	-	-
93	.0075	1/16	3/4	-	-	-	-	**PT1018693**	Price	-	-
94	.0071	1/16	3/4	-	-	-	-	**PT1018694**	Price	-	-
95	.0067	1/16	3/4	-	-	-	-	**PT1018695**	Price	-	-
96	.0063	1/16	3/4	-	-	-	-	**PT1018696**	Price	-	-
97	.0059	1/16	3/4	-	-	-	-	**PT1018697**	Price	-	-

Jobber Drills

High Speed Steel • 118° Standard Point • Bright Finish

- All drills ground from the solid
- Bright finish - works well in a wide variety of materials
- Polished flutes help with chip evacuation
- Morse List #1332B
- Precision Twist List #R15P



				Morse Cutting Tools		Rapidkut		Precision Twist Drill		ProCut	
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
A	.2340	2-5/8	3-7/8	**MT1011645**	Price	**AC50201P**	Price	**PT1015601**	Price	**AC40201**	Price
B	.2380	2-3/4	4	**MT1011647**	Price	**AC50202P**	Price	**PT1015602**	Price	**AC40202**	Price
C	.2420	2-3/4	4	**MT1011648**	Price	**AC50203P**	Price	**PT1015603**	Price	**AC40203**	Price
D	.2460	2-3/4	4	**MT1011649**	Price	**AC50204P**	Price	**PT1015604**	Price	**AC40204**	Price
1/4, E	.2500	2-3/4	4	**MT1011650**	Price	**AC50205P**	Price	-	-	**AC40205**	Price
F	.2570	2-7/8	4-1/8	**MT1011652**	Price	**AC50206P**	Price	**PT1015606**	Price	**AC40206**	Price
G	.2610	2-7/8	4-1/8	**MT1011653**	Price	**AC50207P**	Price	**PT1015607**	Price	**AC40207**	Price
H	.2660	2-7/8	4-1/8	**MT1011655**	Price	**AC50208P**	Price	**PT1015608**	Price	**AC40208**	Price
I	.2720	2-7/8	4-1/8	**MT1011656**	Price	**AC50209P**	Price	**PT1015609**	Price	**AC40209**	Price
J	.2770	2-7/8	4-1/8	**MT1011657**	Price	**AC50210P**	Price	**PT1015610**	Price	**AC40210**	Price
K	.2810	2-15/16	4-1/4	**MT1011658**	Price	**AC50211P**	Price	**PT1015611**	Price	**AC40211**	Price
L	.2900	2-15/16	4-1/4	**MT1011660**	Price	**AC50212P**	Price	**PT1015612**	Price	**AC40212**	Price
M	.2950	3-1/16	4-3/8	**MT1011661**	Price	**AC50213P**	Price	**PT1015613**	Price	**AC40213**	Price
N	.3020	3-1/16	4-3/8	**MT1011663**	Price	**AC50214P**	Price	**PT1015614**	Price	**AC40214**	Price
O	.3160	3-3/16	4-1/2	**MT1011665**	Price	**AC50215P**	Price	**PT1015615**	Price	**AC40215**	Price
P	.3230	3-5/16	4-5/8	**MT1011666**	Price	**AC50216P**	Price	**PT1015616**	Price	**AC40216**	Price
Q	.3320	3-7/16	4-3/4	**MT1011668**	Price	**AC50217P**	Price	**PT1015617**	Price	**AC40217**	Price
R	.3390	3-7/16	4-3/4	**MT1011669**	Price	**AC50218P**	Price	**PT1015618**	Price	**AC40218**	Price
S	.3480	3-1/2	4-7/8	**MT1011671**	Price	**AC50219P**	Price	**PT1015619**	Price	**AC40219**	Price
T	.3580	3-1/2	4-7/8	**MT1011672**	Price	**AC50220P**	Price	**PT1015620**	Price	**AC40220**	Price
U	.3680	3-5/8	5	**MT1011674**	Price	**AC50221P**	Price	**PT1015621**	Price	**AC40221**	Price
V	.3770	3-5/8	5	**MT1011676**	Price	**AC50222P**	Price	**PT1015622**	Price	**AC40222**	Price
W	.3860	3-3/4	5-1/8	**MT1011677**	Price	**AC50223P**	Price	**PT1015623**	Price	**AC40223**	Price
X	.3970	3-3/4	5-1/8	**MT1011679**	Price	**AC50224P**	Price	**PT1015624**	Price	**AC40224**	Price
Y	.4040	3-7/8	5-1/4	**MT1011680**	Price	**AC50225P**	Price	**PT1015625**	Price	**AC40225**	Price
Z	.4130	3-7/8	5-1/4	**MT1011682**	Price	**AC50226P**	Price	**PT1015626**	Price	**AC40226**	Price

Jobber Drills

High Speed Steel • 118° Standard Point • Surface Treated



- General purpose drills suitable for most applications
- Ground from solid
- Surface treated - provides high resistance to abrasion and helps reduce the tendency of soft materials to load on the drill
- Designed for high production drilling of a wide variety of materials
- Perform well under many different operating conditions
- Morse List #1330
- Precision Twist List #R10

MORSE CUTTING TOOLS — Designed for production drilling in a wide variety of materials. Consistent performance for lower overall tooling costs. Made in USA.

PROCUT — General purpose cutting tools, imported from world class manufacturers, that provide productivity at the most economical prices.

Precision - Performance - Productivity — Cutting tools engineered for application versatility and maximum productivity.

RAPIDKUT — Manufactured in the USA to exacting tolerances. High quality tooling at the most competitive price in the industry!

				HSS M GP		RAPIDKUT				PROCUT	
				Morse Cutting Tools		Rapidkut		Precision Twist Drill		ProCut	
Size (in.)	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/64	.0156	3/16	3/4	MT1011353	Price	AC50001B	Price	PT1010001	Price	AC40001B	Price
1/32	.0312	1/2	1-3/8	MT1011365	Price	AC50002B	Price	PT1010002	Price	AC40002B	Price
3/64	.0469	3/4	1-3/4	MT1011378	Price	AC50003B	Price	PT1010003	Price	AC40003B	Price
1/16	.0625	7/8	1-7/8	MT1011382	Price	AC50004B	Price	PT1010004	Price	AC40004B	Price
5/64	.0781	1	2	MT1011388	Price	AC50005B	Price	PT1010005	Price	AC40005B	Price
3/32	.0938	1-1/4	2-1/4	MT1011395	Price	AC50006B	Price	PT1010006	Price	AC40006B	Price
7/64	.1094	1-1/2	2-5/8	MT1011402	Price	AC50007B	Price	PT1010007	Price	AC40007B	Price
1/8	.1250	1-5/8	2-3/4	MT1011408	Price	AC50008B	Price	PT1010008	Price	AC40008B	Price
9/64	.1406	1-3/4	2-7/8	MT1011412	Price	AC50009B	Price	PT1010009	Price	AC40009B	Price
5/32	.1562	2	3-1/8	MT1011418	Price	AC50010B	Price	PT1010010	Price	AC40010B	Price
11/64	.1719	2-1/8	3-1/4	MT1011424	Price	AC50011B	Price	PT1010011	Price	AC40011B	Price
3/16	.1875	2-5/16	3-1/2	MT1011430	Price	AC50012B	Price	PT1010012	Price	AC40012B	Price
13/64	.2031	2-7/16	3-5/8	MT1011437	Price	AC50013B	Price	PT1010013	Price	AC40013B	Price
7/32	.2188	2-1/2	3-3/4	MT1011442	Price	AC50014B	Price	PT1010014	Price	AC40014B	Price
15/64	.2344	2-5/8	3-7/8	MT1011446	Price	AC50015B	Price	PT1010015	Price	AC40015B	Price
1/4	.2500	2-3/4	4	MT1011450	Price	AC50016B	Price	PT1010016	Price	AC40016B	Price
17/64	.2656	2-7/8	4-1/8	MT1011454	Price	AC50017B	Price	PT1010017	Price	AC40017B	Price
9/32	.2812	2-15/16	4-1/4	MT1011459	Price	AC50018B	Price	PT1010018	Price	AC40018B	Price
19/64	.2969	3-1/16	4-3/8	MT1011462	Price	AC50019B	Price	PT1010019	Price	AC40019B	Price
5/16	.3125	3-3/16	4-1/2	MT1011464	Price	AC50020B	Price	PT1010020	Price	AC40020B	Price
21/64	.3281	3-5/16	4-5/8	MT1011467	Price	AC50021B	Price	PT1010021	Price	AC40021B	Price
11/32	.3438	3-7/16	4-3/4	MT1011470	Price	AC50022B	Price	PT1010022	Price	AC40022B	Price
23/64	.3594	3-1/2	4-7/8	MT1011473	Price	AC50023B	Price	PT1010023	Price	AC40023B	Price
3/8	.3750	3-5/8	5	MT1011475	Price	AC50024B	Price	PT1010024	Price	AC40024B	Price
25/64	.3906	3-3/4	5-1/8	MT1011478	Price	AC50025B	Price	PT1010025	Price	AC40025B	Price
13/32	.4062	3-7/8	5-1/4	MT1011481	Price	AC50026B	Price	PT1010026	Price	AC40026B	Price
27/64	.4219	3-15/16	5-3/8	MT1011483	Price	AC50027B	Price	PT1010027	Price	AC40027B	Price
7/16	.4375	4-1/16	5-1/2	MT1011484	Price	AC50028B	Price	PT1010028	Price	AC40028B	Price
29/64	.4531	4-3/16	5-5/8	MT1011485	Price	AC50029B	Price	PT1010029	Price	AC40029B	Price
15/32	.4688	4-5/16	5-3/4	MT1011486	Price	AC50030B	Price	PT1010030	Price	AC40030B	Price
31/64	.4844	4-3/8	5-7/8	MT1011487	Price	AC50031B	Price	PT1010031	Price	AC40031B	Price
1/2	.5000	4-1/2	6	MT1011488	Price	AC50032B	Price	PT1010032	Price	AC40032B	Price
33/64	.5156	4-13/16	6-5/8	MT1011489	Price	AC50033B	Price	PT1010033	Price	AC40033B	Price
17/32	.5312	4-13/16	6-5/8	MT1011490	Price	AC50034B	Price	PT1010034	Price	AC40034B	Price
35/64	.5469	4-13/16	6-5/8	MT1011491	Price	AC50035B	Price	PT1010035	Price	AC40035B	Price
9/16	.5625	4-13/16	6-5/8	MT1011492	Price	AC50036B	Price	PT1010036	Price	AC40036B	Price
37/64	.5781	4-13/16	6-5/8	MT1011493	Price	AC50037B	Price	PT1010037	Price	AC40037B	Price
19/32	.5938	5-3/16	7-1/8	MT1011494	Price	AC50038B	Price	PT1010038	Price	AC40038B	Price
39/64	.6094	5-3/16	7-1/8	MT1011495	Price	AC50039B	Price	PT1010039	Price	AC40039B	Price
5/8	.6250	5-3/16	7-1/8	MT1011496	Price	AC50040B	Price	PT1010040	Price	AC40040B	Price
41/64	.6406	5-3/16	7-1/8	MT1011497	Price	AC50041B	Price	PT1010041	Price	AC40041B	Price
21/32	.6562	5-3/16	7-1/8	MT1011498	Price	AC50042B	Price	PT1010042	Price	AC40042B	Price
43/64	.6719	5-5/8	7-5/8	MT1011499	Price	AC50043B	Price	PT1010043	Price	AC40043B	Price
11/16	.6875	5-5/8	7-5/8	MT1011500	Price	AC50044B	Price	PT1010044	Price	AC40044B	Price

Jobber Drills



High Speed Steel • 118° Standard Point • Surface Treated

- Ground from solid
- Surface treated - provides high resistance to abrasion and helps to reduce the tendency of soft materials to load on the drill
- Designed for high production drilling of a wide variety of materials
- Perform well under many different operating conditions
- Morse List #1340
- Precision Twist List #R18

				Morse Cutting Tools		Rapidkut		Precision Twist Drill		ProCut	
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1	.2280	2-5/8	3-7/8	MT1011444	Price	AC50101B	Price	PT1018001	Price	AC40101B	Price
2	.2210	2-5/8	3-7/8	MT1011443	Price	AC50102B	Price	PT1018002	Price	AC40102B	Price
3	.2130	2-1/2	3-3/4	MT1011441	Price	AC50103B	Price	PT1018003	Price	AC40103B	Price
4	.2090	2-1/2	3-3/4	MT1011440	Price	AC50104B	Price	PT1018004	Price	AC40104B	Price
5	.2055	2-1/2	3-3/4	MT1011439	Price	AC50105B	Price	PT1018005	Price	AC40105B	Price
6	.2040	2-1/2	3-3/4	MT1011438	Price	AC50106B	Price	PT1018006	Price	AC40106B	Price
7	.2010	2-7/16	3-5/8	MT1011436	Price	AC50107B	Price	PT1018007	Price	AC40107B	Price
8	.1990	2-7/16	3-5/8	MT1011435	Price	AC50108B	Price	PT1018008	Price	AC40108B	Price
9	.1960	2-7/16	3-5/8	MT1011434	Price	AC50109B	Price	PT1018009	Price	AC40109B	Price
10	.1935	2-7/16	3-5/8	MT1011433	Price	AC50110B	Price	PT1018010	Price	AC40110B	Price
11	.1910	2-5/16	3-1/2	MT1011432	Price	AC50111B	Price	PT1018011	Price	AC40111B	Price
12	.1890	2-5/16	3-1/2	MT1011431	Price	AC50112B	Price	PT1018012	Price	AC40112B	Price
13	.1850	2-5/16	3-1/2	MT1011429	Price	AC50113B	Price	PT1018013	Price	AC40113B	Price
14	.1820	2-3/16	3-3/8	MT1011428	Price	AC50114B	Price	PT1018014	Price	AC40114B	Price
15	.1800	2-3/16	3-3/8	MT1011427	Price	AC50115B	Price	PT1018015	Price	AC40115B	Price
16	.1770	2-3/16	3-3/8	MT1011426	Price	AC50116B	Price	PT1018016	Price	AC40116B	Price
17	.1730	2-3/16	3-3/8	MT1011425	Price	AC50117B	Price	PT1018017	Price	AC40117B	Price
18	.1695	2-1/8	3-1/4	MT1011423	Price	AC50118B	Price	PT1018018	Price	AC40118B	Price
19	.1660	2-1/8	3-1/4	MT1011422	Price	AC50119B	Price	PT1018019	Price	AC40119B	Price
20	.1610	2-1/8	3-1/4	MT1011421	Price	AC50120B	Price	PT1018020	Price	AC40120B	Price
21	.1590	2-1/8	3-1/4	MT1011420	Price	AC50121B	Price	PT1018021	Price	AC40121B	Price
22	.1570	2	3-1/8	MT1011419	Price	AC50122B	Price	PT1018022	Price	AC40122B	Price
23	.1540	2	3-1/8	MT1011417	Price	AC50123B	Price	PT1018023	Price	AC40123B	Price
24	.1520	2	3-1/8	MT1011416	Price	AC50124B	Price	PT1018024	Price	AC40124B	Price
25	.1495	1-7/8	3	MT1011415	Price	AC50125B	Price	PT1018025	Price	AC40125B	Price
26	.1470	1-7/8	3	MT1011414	Price	AC50126B	Price	PT1018026	Price	AC40126B	Price
27	.1440	1-7/8	3	MT1011413	Price	AC50127B	Price	PT1018027	Price	AC40127B	Price
28	.1405	1-3/4	2-7/8	MT1011411	Price	AC50128B	Price	PT1018028	Price	AC40128B	Price
29	.1360	1-3/4	2-7/8	MT1011410	Price	AC50129B	Price	PT1018029	Price	AC40129B	Price
30	.1285	1-5/8	2-3/4	MT1011409	Price	AC50130B	Price	PT1018030	Price	AC40130B	Price
31	.1200	1-5/8	2-3/4	MT1011407	Price	AC50131B	Price	PT1018031	Price	AC40131B	Price
32	.1160	1-5/8	2-3/4	MT1011406	Price	AC50132B	Price	PT1018032	Price	AC40132B	Price
33	.1130	1-1/2	2-5/8	MT1011405	Price	AC50133B	Price	PT1018033	Price	AC40133B	Price
34	.1110	1-1/2	2-5/8	MT1011404	Price	AC50134B	Price	PT1018034	Price	AC40134B	Price
35	.1100	1-1/2	2-5/8	MT1011403	Price	AC50135B	Price	PT1018035	Price	AC40135B	Price
36	.1065	1-7/16	2-1/2	MT1011401	Price	AC50136B	Price	PT1018036	Price	AC40136B	Price
37	.1040	1-7/16	2-1/2	MT1011400	Price	AC50137B	Price	PT1018037	Price	AC40137B	Price
38	.1015	1-7/16	2-1/2	MT1011399	Price	AC50138B	Price	PT1018038	Price	AC40138B	Price
39	.0995	1-3/8	2-3/8	MT1011398	Price	AC50139B	Price	PT1018039	Price	AC40139B	Price
40	.0980	1-3/8	2-3/8	MT1011397	Price	AC50140B	Price	PT1018040	Price	AC40140B	Price
41	.0960	1-3/8	2-3/8	MT1011396	Price	AC50141B	Price	PT1018041	Price	AC40141B	Price
42	.0935	1-1/4	2-1/4	MT1011394	Price	AC50142B	Price	PT1018042	Price	AC40142B	Price
43	.0890	1-1/4	2-1/4	MT1011393	Price	AC50143B	Price	PT1018043	Price	AC40143B	Price
44	.0860	1-1/8	2-1/8	MT1011392	Price	AC50144B	Price	PT1018044	Price	AC40144B	Price
45	.0820	1-1/8	2-1/8	MT1011391	Price	AC50145B	Price	PT1018045	Price	AC40145B	Price
46	.0810	1-1/8	2-1/8	MT1011390	Price	AC50146B	Price	PT1018046	Price	AC40146B	Price
47	.0785	1	2	MT1011389	Price	AC50147B	Price	PT1018047	Price	AC40147B	Price
48	.0760	1	2	MT1011387	Price	AC50148B	Price	PT1018048	Price	AC40148B	Price
49	.0730	1	2	MT1011386	Price	AC50149B	Price	PT1018049	Price	AC40149B	Price
50	.0700	1	2	MT1011385	Price	AC50150B	Price	PT1018050	Price	AC40150B	Price
51	.0670	1	2	MT1011384	Price	AC50151B	Price	PT1018051	Price	AC40151B	Price
52	.0635	7/8	1-7/8	MT1011383	Price	AC50152B	Price	PT1018052	Price	AC40152B	Price
53	.0595	7/8	1-7/8	MT1011381	Price	AC50153B	Price	PT1018053	Price	AC40153B	Price
54	.0550	7/8	1-7/8	MT1011380	Price	AC50154B	Price	PT1018054	Price	AC40154B	Price
55	.0520	7/8	1-7/8	MT1011379	Price	AC50155B	Price	PT1018055	Price	AC40155B	Price
56	.0465	3/4	1-3/4	MT1011377	Price	AC50156B	Price	PT1018056	Price	AC40156B	Price
57	.0430	3/4	1-3/4	MT1011376	Price	AC50157B	Price	PT1018057	Price	AC40157B	Price

(Continued on next page)

Jobber Drills (cont.)

High Speed Steel • 118° Standard Point • Surface Treated



				Morse Cutting Tools		Rapidkut		Precision Twist Drill		ProCut	
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
58	.0420	11/16	1-5/8	MT1011375	Price	AC50158B	Price	PT1018058	Price	AC40158B	Price
59	.0410	11/16	1-5/8	MT1011374	Price	AC50159B	Price	PT1018059	Price	AC40159B	Price
60	.0400	11/16	1-5/8	MT1011373	Price	AC50160B	Price	PT1018060	Price	AC40160B	Price
61	.0390	11/16	1-5/8	MT1011372	Price	AC50161B	Price	PT1018061	Price	AC40161B	Price
62	.0380	5/8	1-1/2	MT1011371	Price	AC50162B	Price	PT1018062	Price	AC40162B	Price
63	.0370	5/8	1-1/2	MT1011370	Price	AC50163B	Price	PT1018063	Price	AC40163B	Price
64	.0360	5/8	1-1/2	MT1011369	Price	AC50164B	Price	PT1018064	Price	AC40164B	Price
65	.0350	5/8	1-1/2	MT1011368	Price	AC50165B	Price	PT1018065	Price	AC40165B	Price
66	.0330	1/2	1-3/8	MT1011367	Price	AC50166B	Price	PT1018066	Price	AC40166B	Price
67	.0320	1/2	1-3/8	MT1011366	Price	AC50167B	Price	PT1018067	Price	AC40167B	Price
68	.0310	1/2	1-3/8	MT1011364	Price	AC50168B	Price	PT1018068	Price	AC40168B	Price
69	.0292	1/2	1-3/8	MT1011363	Price	AC50169B	Price	PT1018069	Price	AC40169B	Price
70	.0280	3/8	1-1/4	MT1011362	Price	AC50170B	Price	PT1018070	Price	AC40170B	Price
71	.0260	3/8	1-1/4	MT1011361	Price	AC50171B	Price	PT1018071	Price	AC40171B	Price
72	.0250	5/16	1-1/8	MT1011360	Price	AC50172B	Price	PT1018072	Price	AC40172B	Price
73	.0240	5/16	1-1/8	MT1011359	Price	AC50173B	Price	PT1018073	Price	AC40173B	Price
74	.0225	1/4	1	MT1011358	Price	AC50174B	Price	PT1018074	Price	AC40174B	Price
75	.0210	1/4	1	MT1011357	Price	AC50175B	Price	PT1018075	Price	AC40175B	Price
76	.0200	3/16	7/8	MT1011356	Price	AC50176B	Price	PT1018076	Price	-	-
77	.0180	3/16	7/8	MT1011355	Price	AC50177B	Price	PT1018077	Price	AC40177B	Price
78	.0160	3/16	7/8	MT1011354	Price	AC50178B	Price	PT1018078	Price	AC40178B	Price
79	.0145	1/8	3/4	MT1011352	Price	AC50179B	Price	PT1018079	Price	AC40179B	Price
80	.0135	1/8	3/4	MT1011351	Price	-	-	PT1018080	Price	AC40180B	Price

Jobber Drills

High Speed Steel • 118° Standard Point • Surface Treated



- Ground from solid
- Surface treated - provides high resistance to abrasion and helps to reduce the tendency of soft materials to load on the drill
- Designed for high production drilling of a wide variety of materials
- Perform well under many different operating conditions
- Morse List #1332
- Precision Twist List #R15

				Morse Cutting Tools		Rapidkut		Precision Twist Drill		ProCut	
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
A	.2340	2-5/8	3-7/8	MT1011445	Price	AC50201B	Price	PT1015001	Price	AC40201B	Price
B	.2380	2-3/4	4	MT1011447	Price	AC50202B	Price	PT1015002	Price	AC40202B	Price
C	.2420	2-3/4	4	MT1011448	Price	AC50203B	Price	PT1015003	Price	AC40203B	Price
D	.2460	2-3/4	4	MT1011449	Price	AC50204B	Price	PT1015004	Price	AC40204B	Price
1/4, E	.2500	2-3/4	4	MT1011450	Price	AC50205B	Price	PT1010016	Price	AC40205B	Price
F	.2570	2-7/8	4-1/8	MT1011452	Price	AC50206B	Price	PT1015006	Price	AC40206B	Price
G	.2610	2-7/8	4-1/8	MT1011453	Price	AC50207B	Price	PT1015007	Price	AC40207B	Price
H	.2660	2-7/8	4-1/8	MT1011455	Price	AC50208B	Price	PT1015008	Price	AC40208B	Price
I	.2720	2-7/8	4-1/8	MT1011456	Price	AC50209B	Price	PT1015009	Price	AC40209B	Price
J	.2770	2-7/8	4-1/8	MT1011457	Price	AC50210B	Price	PT1015010	Price	AC40210B	Price
K	.2810	2-15/16	4-1/4	MT1011458	Price	AC50211B	Price	PT1015011	Price	AC40211B	Price
L	.2900	2-15/16	4-1/4	MT1011460	Price	AC50212B	Price	PT1015012	Price	AC40212B	Price
M	.2950	3-1/16	4-3/8	MT1011461	Price	AC50213B	Price	PT1015013	Price	AC40213B	Price
N	.3020	3-1/16	4-3/8	MT1011463	Price	AC50214B	Price	PT1015014	Price	AC40214B	Price
O	.3160	3-3/16	4-1/2	MT1011465	Price	AC50215B	Price	PT1015015	Price	AC40215B	Price
P	.3230	3-5/16	4-5/8	MT1011466	Price	AC50216B	Price	PT1015016	Price	AC40216B	Price
Q	.3320	3-7/16	4-3/4	MT1011468	Price	AC50217B	Price	PT1015017	Price	AC40217B	Price
R	.3390	3-7/16	4-3/4	MT1011469	Price	AC50218B	Price	PT1015018	Price	AC40218B	Price
S	.3480	3-1/2	4-7/8	MT1011471	Price	AC50219B	Price	PT1015019	Price	AC40219B	Price
T	.3580	3-1/2	4-7/8	MT1011472	Price	AC50220B	Price	PT1015020	Price	AC40220B	Price
U	.3680	3-5/8	5	MT1011474	Price	AC50221B	Price	PT1015021	Price	AC40221B	Price
V	.3770	3-5/8	5	MT1011476	Price	AC50222B	Price	PT1015022	Price	AC40222B	Price
W	.3860	3-3/4	5-1/8	MT1011477	Price	AC50223B	Price	PT1015023	Price	AC40223B	Price
X	.3970	3-3/4	5-1/8	MT1011479	Price	AC50224B	Price	PT1015024	Price	AC40224B	Price
Y	.4040	3-7/8	5-1/4	MT1011480	Price	AC50225B	Price	PT1015025	Price	AC40225B	Price
Z	.4130	3-7/8	5-1/4	MT1011482	Price	AC50226B	Price	PT1015026	Price	AC40226B	Price

TiN Tip and TiN Coated Jobber Length Drills

High Speed Steel • 118° Split Point

- TiN tip increases tool hardness and improves tool life
- Dormer List #A012

TiN Coated 118° Jobber Drills



- High speed steel
- Titanium nitride coated
- Offers outstanding wear resistance, reduces friction and prevents galling
- Increased lubricity and chip low
- Provides better surface finish
- Allows for increased speeds and feeds to improve productivity

DORMER PROCUT

Type - Fractional Size							
				Dormer		ProCut	
Size	Decimal Equiv. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/64	.0156	3/16	3/4	PT450573952†	3.41	AC75001	Price
1/32	.0312	1/2	1-3/8	PT450573969†	2.38	AC75002	Price
3/64	.0469	3/4	1-3/4	PT450573976†	2.38	AC75003	Price
1/16	.0625	7/8	1-7/8	PT450578636†	2.19	AC75004	Price
5/64	.0781	1	2	PT450578643†	2.19	AC75005	Price
3/32	.0938	1-1/4	2-1/4	PT450572061	Price	AC75006	Price
7/64	.1094	1-1/2	2-5/8	PT450572184	Price	AC75007	Price
1/8	.1250	1-5/8	2-3/4	PT450571897	Price	AC75008	Price
9/64	.1406	1-3/4	2-7/8	PT450572214	Price	AC75009	Price
5/32	.1562	2	3-1/8	PT450572146	Price	AC75010	Price
11/64	.1719	2-1/8	3-1/4	PT450571910	Price	AC75011	Price
3/16	.1875	2-5/16	3-1/2	PT450572054	Price	AC75012	Price
13/64	.2031	2-7/16	3-5/8	PT450571934	Price	AC75013	Price
7/32	.2188	2-1/2	3-3/4	PT450572177	Price	AC75014	Price
15/64	.2344	2-5/8	3-7/8	PT450571958	Price	AC75015	Price
1/4	.2500	2-3/4	4	PT450571125	Price	AC75016	Price
17/64	.2656	2-7/8	4-1/8	PT450571972	Price	AC75017	Price
9/32	.2812	2-15/16	4-1/4	PT450572207	Price	AC75018	Price
19/64	.2969	3-1/16	4-3/8	PT450571996	Price	AC75019	Price
5/16	.3125	3-3/16	4-1/2	PT450572139	Price	AC75020	Price
21/64	.3281	3-5/16	4-5/8	PT450572009	Price	AC75021	Price
11/32	.3438	3-7/16	4-3/4	PT450571903	Price	AC75022	Price
23/64	.3594	3-1/2	4-7/8	PT450572016	Price	AC75023	Price
3/8	.3750	3-5/8	5	PT450572078	Price	AC75024	Price
25/64	.3906	3-3/4	5-1/8	PT450572023	Price	AC75025	Price
13/32	.4062	3-7/8	5-1/4	PT450571927	Price	AC75026	Price
27/64	.4219	3-15/16	5-3/8	PT450572030	Price	AC75027	Price
7/16	.4375	4-1/16	5-1/2	PT450572160	Price	AC75028†	8.75
29/64	.4531	4-3/16	5-5/8	PT450572047	Price	AC75029	Price
15/32	.4688	4-5/16	5-3/4	PT450571941	Price	AC75030	Price
31/64	.4844	4-3/8	5-7/8	PT450572085	Price	AC75031	Price
1/2	.5000	4-1/2	6	PT450571880	Price	AC75032	Price

DORMER PROCUT

Type - Letter Size							
				Dormer		ProCut	
Size	Decimal Equiv. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
A	.2340	2-5/8	3-7/8	PT450571163	5.32	AC75201	3.90
B	.2380	2-3/4	4	PT450571170	5.32	AC75202	3.90
C	.2420	2-3/4	4	PT450571187	5.32	AC75203	3.90
D	.2460	2-3/4	4	PT450571194	5.32	AC75204	3.90
F	.2570	2-7/8	4-1/8	PT450571217	5.66	AC75206	4.25
G	.2610	2-7/8	4-1/8	PT450571224	6.35	AC75207	4.65
H	.2660	2-7/8	4-1/8	PT450571231	6.35	AC75208	4.65
I	.2720	2-7/8	4-1/8	PT450571248	6.35	AC75209	4.65
J	.2770	2-7/8	4-1/8	PT450571255	6.85	AC75210	4.95
K	.2810	2-15/16	4-1/4	PT450571262	7.57	AC75211	5.50
L	.2900	2-15/16	4-1/4	PT450571279	7.57	AC75212	5.50
M	.2950	3-1/16	4-3/8	PT450571286	7.97	AC75213	5.80
N	.3020	3-1/16	4-3/8	PT450571293	7.97	AC75214	5.80
O	.3160	3-3/16	4-1/2	PT450571767	8.07	AC75215	5.90
P	.3230	3-5/16	4-5/8	PT450571774	9.10	AC75216	6.60
Q	.3320	3-7/16	4-3/4	PT450571781	9.10	AC75217	6.60
R	.3390	3-7/16	4-3/4	PT450571798	9.72	AC75218	7.15
S	.3480	3-1/2	4-7/8	PT450571804	10.38	AC75219	7.50
T	.3580	3-1/2	4-7/8	PT450571811	11.79	AC75220	8.50
U	.3680	3-5/8	5	PT450571828	11.79	AC75221	8.50

DORMER PROCUT

Type - Letter Size							
				Dormer		ProCut	
Size	Decimal Equiv. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
V	.3770	3-5/8	5	PT450571835	12.07	AC75222	8.80
W	.3860	3-3/4	5-1/8	PT450571842	12.38	AC75223	9.05
X	.3970	3-3/4	5-1/8	PT450571859	15.07	AC75224	10.95
Y	.4040	3-7/8	5-1/4	PT450571866	16.97	AC75225	12.35
Z	.4130	3-7/8	5-1/4	PT450571873	18.04	AC75226	13.05

DORMER PROCUT

Type - Wire Gage Size							
				Dormer		ProCut	
Size	Decimal Equiv. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1	.2280	2-5/8	3-7/8	PT450571309	Price	AC75101	Price
2	.2210	2-5/8	3-7/8	PT450571415	Price	AC75102	Price
3	.2130	2-1/2	3-3/4	PT450571521	Price	AC75103	Price
4	.2090	2-1/2	3-3/4	PT450571637	Price	AC75104	Price
5	.2055	2-1/2	3-3/4	PT450571712	Price	AC75105	Price
6	.2040	2-1/2	3-3/4	PT450571729	Price	AC75106	Price
7	.2010	2-7/16	3-5/8	PT450571736	Price	AC75107	Price
8	.1990	2-7/16	3-5/8	PT450571743	Price	AC75108	Price
9	.1960	2-7/16	3-5/8	PT450571750	Price	AC75109	Price
10	.1935	2-7/16	3-5/8	PT450571316	Price	AC75110	Price
11	.1910	2-5/16	3-1/2	PT450571323	Price	AC75111	Price
12	.1890	2-5/16	3-1/2	PT450571330	Price	AC75112	Price
13	.1850	2-5/16	3-1/2	PT450571347	Price	AC75113	Price
14	.1820	2-3/16	3-3/8	PT450571354	Price	AC75114	Price
15	.1800	2-3/16	3-3/8	PT450571361	Price	AC75115	Price
16	.1770	2-3/16	3-3/8	PT450571378	Price	AC75116	Price
17	.1730	2-3/16	3-3/8	PT450571385	Price	AC75117	Price
18	.1695	2-1/8	3-1/4	PT450571392	Price	AC75118	Price
19	.1660	2-1/8	3-1/4	PT450571408	Price	AC75119	Price
20	.1610	2-1/8	3-1/4	PT450571422	Price	AC75120	Price
21	.1590	2-1/8	3-1/4	PT450571439	Price	AC75121	Price
22	.1570	2	3-1/8	PT450571446	Price	AC75122	Price
23	.1540	2	3-1/8	PT450571453	Price	AC75123	Price
24	.1520	2	3-1/8	PT450571460	Price	AC75124	Price
25	.1495	1-7/8	3	PT450571477	Price	AC75125	Price
26	.1470	1-7/8	3	PT450571484	Price	AC75126	Price
27	.1440	1-7/8	3	PT450571491	Price	AC75127	Price
28	.1405	1-3/4	2-7/8	PT450571507	Price	AC75128	Price
29	.1360	1-3/4	2-7/8	PT450571514	Price	AC75129	Price
30	.1285	1-5/8	2-3/4	PT450571538	Price	AC75130	Price
31	.1200	1-5/8	2-3/4	PT450571545	Price	AC75131	Price
32	.1160	1-5/8	2-3/4	PT450571552	Price	AC75132	Price
33	.1130	1-1/2	2-5/8	PT450571569	Price	AC75133	Price
34	.1110	1-1/2	2-5/8	PT450571576	Price	AC75134	Price
35	.1100	1-1/2	2-5/8	PT450571583	Price	AC75135	Price
36	.1065	1-7/16	2-1/2	PT450571590	Price	AC75136	Price
37	.1040	1-7/16	2-1/2	PT450571606	Price	AC75137	Price
38	.1015	1-7/16	2-1/2	PT450571613	Price	AC75138	Price
39	.0995	1-3/8	2-3/8	PT450571620	Price	AC75139	Price
40	.0980	1-3/8	2-3/8	PT450571644	Price	AC75140	Price
41	.0960	1-3/8	2-3/8	PT450571651	Price	AC75141	Price
42	.0935	1-1/4	2-1/4	PT450571668	Price	AC75142	Price
43	.0890	1-1/4	2-1/4	PT450571675	Price	AC75143	Price
44	.0860	1-1/8	2-1/8	PT450571682	Price	AC75144	Price
45	.0820	1-1/8	2-1/8	PT450571699	Price	AC75145	Price
46	.0810	1-1/8	2-1/8	PT450571705	Price	AC75146	Price
47	.0785	1	2	PT450578650†	2.41	AC75147	Price
48	.0760	1	2	PT450578667†	2.41	AC75148	Price
49	.0730	1	2	PT450578674†	2.41	AC75149	Price
50	.0700	1	2	PT450578681†	2.41	AC75150	Price
51	.0670	1	2	PT450578698†	2.41	AC75151	Price
52	.0635	7/8	1-7/8	PT450578704†	2.41	AC75152	Price
53	.0595	7/8	1-7/8	PT450573983†	2.57	AC75153†	2.75
54	.0550	7/8	1-7/8	PT450573990†	2.57	AC75154†	2.75
55	.0520	7/8	1-7/8	PT450574003†	2.57	AC75155†	2.75
56	.0465	3/4	1-3/4	PT450574010†	2.57	AC75156†	2.75
57	.0430	3/4	1-3/4	PT450574027†	2.57	AC75157†	2.75
58	.0420	11/16	1-5/8	PT450574034†	2.57	AC75158†	2.75
59	.0410	11/16	1-5/8	PT450574041†	2.57	AC75159†	2.75
60	.0400	11/16	1-5/8	PT450574058†	2.57	AC75160†	2.75

†Sizes smaller than #46 (.0810) have a 118° 4-facet point and are bright finish

HSS MORSE M GP Metric Jobber Drills

High Speed Steel • 118° Point • Surface Treated Cobalt • 135° Split Point • Bronze Color

- Designed for the drilling of a wide variety of materials
- Perform well under many different operating conditions
- Morse List #1333 (high speed steel) - 2345 (cobalt)



Standard Package Quantities:
.35mm thru 9.5mm — 12 each
9.6mm thru 13mm — 6 each
13.5mm thru 17.5mm — 1 each

		High Speed Steel		Cobalt	
Size (mm)	OAL (in.)	Order No.	Price	Order No.	Price
0.5mm	22mm	**MT5613004**	Price	**-**	-
0.55mm	24mm	**MT5613005**	Price	**-**	-
0.6mm	24mm	**MT5613006**	Price	**-**	-
0.65mm	26mm	**MT5613007**	Price	**-**	-
0.7mm	28mm	**MT5613008**	Price	**-**	-
0.75mm	28mm	**MT5613009**	Price	**-**	-
0.8mm	30mm	**MT5613010**	Price	**-**	-
0.85mm	30mm	**MT5613011**	Price	**-**	-
0.9mm	32mm	**MT5613012**	Price	**MT2417600**	Price
0.95mm	32mm	**MT5613013**	Price	**MT2417601**	Price
1mm	34mm	**MT5613014**	Price	**MT2417602**	Price
1.05mm	34mm	**MT5613015**	Price	**MT2417603**	Price
1.1mm	36mm	**MT5613016**	Price	**MT2417604**	Price
1.15mm	36mm	**MT5613017**	Price	**-**	-
1.5mm	38mm	**MT5613018**	Price	**MT2417605**	Price
1.25mm	38mm	**MT5613019**	Price	**-**	-
1.3mm	38mm	**MT5613020**	Price	**MT2417606**	Price
1.35mm	40mm	**MT5613021**	Price	**-**	-
1.4mm	40mm	**MT5613022**	Price	**MT2417607**	Price
1.45mm	40mm	**MT5613023**	Price	**-**	-
1.5mm	40mm	**MT5613024**	Price	**MT2417608**	Price
1.55mm	43mm	**MT5613025**	Price	**-**	-
1.6mm	43mm	**MT5613026**	Price	**MT2417609**	Price
1.65mm	43mm	**MT5613027**	Price	**-**	-
1.7mm	43mm	**MT5613028**	Price	**MT2417610**	Price
1.75mm	46mm	**MT5613029**	Price	**-**	-
1.8mm	46mm	**MT5613030**	Price	**MT2417611**	Price
1.85mm	46mm	**MT5613031**	Price	**-**	-
1.9mm	46mm	**MT5613032**	Price	**MT2417612**	Price
1.95mm	49mm	**MT5613033**	Price	**-**	-
2mm	49mm	**MT5613034**	Price	**MT2417613**	Price
2.05mm	49mm	**MT5613035**	Price	**MT2417614**	Price
2.1mm	49mm	**MT5613036**	Price	**MT2417615**	Price
2.15mm	53mm	**MT5613037**	Price	**-**	-
2.2mm	53mm	**MT5613038**	Price	**MT2417616**	Price
2.25mm	53mm	**MT5613039**	Price	**-**	-
2.3mm	53mm	**MT5613040**	Price	**MT2417617**	Price
2.35mm	53mm	**MT5613041**	Price	**-**	-
2.4mm	57mm	**MT5613042**	Price	**MT2417618**	Price
2.45mm	57mm	**MT5613043**	Price	**-**	-
2.5mm	57mm	**MT5613044**	Price	**MT2417619**	Price
2.6mm	57mm	**MT5613045**	Price	**MT2417620**	Price
2.7mm	61mm	**MT5613046**	Price	**MT2417621**	Price
2.75mm	61mm	**MT5613047**	Price	**-**	-
2.8mm	61mm	**MT5613048**	Price	**MT2417622**	Price
2.9mm	61mm	**MT5613049**	Price	**MT2417623**	Price
3mm	61mm	**MT5613050**	Price	**MT2417624**	Price
3.1mm	65mm	**MT5613051**	Price	**MT2417625**	Price
3.2mm	65mm	**MT5613052**	Price	**MT2417626**	Price
3.25mm	65mm	**MT5613053**	Price	**-**	-
3.3mm	65mm	**MT5613054**	Price	**MT2417627**	Price
3.4mm	70mm	**MT5613055**	Price	**MT2417628**	Price
3.5mm	70mm	**MT5613056**	Price	**MT2417629**	Price
3.6mm	70mm	**MT5613057**	Price	**MT2417630**	Price
3.7mm	70mm	**MT5613058**	Price	**MT2417631**	Price
3.75mm	70mm	**MT5613059**	Price	**-**	-
3.8mm	75mm	**MT5613060**	Price	**MT2417632**	Price
3.9mm	75mm	**MT5613061**	Price	**MT2417633**	Price
4mm	75mm	**MT5613062**	Price	**MT2417634**	Price
4.1mm	75mm	**MT5613063**	Price	**MT2417635**	Price
4.2mm	75mm	**MT5613064**	Price	**MT2417636**	Price
4.25mm	75mm	**MT5613065**	Price	**-**	-
4.3mm	80mm	**MT5613066**	Price	**MT2417637**	Price
4.4mm	80mm	**MT5613067**	Price	**MT2417638**	Price
4.5mm	80mm	**MT5613068**	Price	**MT2417639**	Price
4.6mm	80mm	**MT5613069**	Price	**MT2417640**	Price
4.7mm	80mm	**MT5613070**	Price	**MT2417641**	Price
4.75mm	80mm	**MT5613071**	Price	**-**	-
4.8mm	86mm	**MT5613072**	Price	**MT2417642**	Price
4.9mm	86mm	**MT5613073**	Price	**MT2417643**	Price
5mm	86mm	**MT5613074**	Price	**MT2417644**	Price
5.1mm	86mm	**MT5613075**	Price	**MT2417645**	Price
5.2mm	86mm	**MT5613076**	Price	**MT2417646**	Price
5.25mm	86mm	**MT5613077**	Price	**-**	-
5.3mm	86mm	**MT5613078**	Price	**MT2417647**	Price
5.4mm	93mm	**MT5613079**	Price	**MT2417648**	Price
5.5mm	93mm	**MT5613080**	Price	**MT2417649**	Price
5.6mm	93mm	**MT5613081**	Price	**MT2417650**	Price
5.7mm	93mm	**MT5613082**	Price	**MT2417651**	Price
5.75mm	93mm	**MT5613083**	Price	**-**	-
5.8mm	93mm	**MT5613084**	Price	**MT2417652**	Price
5.9mm	93mm	**MT5613085**	Price	**MT2417653**	Price
6mm	93mm	**MT5613086**	Price	**MT2417654**	Price
6.1mm	101mm	**MT5613087**	Price	**MT2417655**	Price
6.2mm	101mm	**MT5613088**	Price	**MT2417656**	Price
6.25mm	101mm	**MT5613089**	Price	**-**	-
6.3mm	101mm	**MT5613090**	Price	**MT2417657**	Price
6.4mm	101mm	**MT5613091**	Price	**MT2417658**	Price
6.5mm	101mm	**MT5613092**	Price	**MT2417659**	Price
6.6mm	101mm	**MT5613093**	Price	**MT2417660**	Price
6.7mm	101mm	**MT5613094**	Price	**MT2417661**	Price
6.75mm	109mm	**MT5613095**	Price	**-**	-
6.8mm	109mm	**MT5613096**	Price	**MT2417662**	Price
6.9mm	109mm	**MT5613097**	Price	**MT2417663**	Price
7mm	109mm	**MT5613098**	Price	**MT2417664**	Price
7.1mm	109mm	**MT5613099**	Price	**MT2417665**	Price
7.2mm	109mm	**MT5613100**	Price	**MT2417666**	Price
7.25mm	109mm	**MT5613101**	Price	**-**	-
7.3mm	109mm	**MT5613102**	Price	**MT2417667**	Price
7.4mm	109mm	**MT5613103**	Price	**MT2417668**	Price
7.5mm	109mm	**MT5613104**	Price	**MT2417669**	Price
7.6mm	117mm	**MT5613105**	Price	**MT2417670**	Price
7.7mm	117mm	**MT5613106**	Price	**MT2417671**	Price
7.75mm	117mm	**MT5613107**	Price	**-**	-
7.8mm	117mm	**MT5613108**	Price	**MT2417672**	Price
7.9mm	117mm	**MT5613109**	Price	**MT2417673**	Price
8mm	117mm	**MT5613110**	Price	**MT2417674**	Price
8.1mm	117mm	**MT5613111**	Price	**MT2417675**	Price
8.2mm	117mm	**MT5613112**	Price	**MT2417676**	Price
8.25mm	117mm	**MT5613113**	Price	**-**	-
8.3mm	117mm	**MT5613114**	Price	**MT2417677**	Price
8.4mm	117mm	**MT5613115**	Price	**MT2417678**	Price
8.5mm	117mm	**MT5613116**	Price	**MT2417679**	Price
8.6mm	125mm	**MT5613117**	Price	**MT2417680**	Price
8.7mm	125mm	**MT5613118**	Price	**MT2417681**	Price
8.75mm	125mm	**MT5613119**	Price	**-**	-
8.8mm	125mm	**MT5613120**	Price	**MT2417682**	Price
8.9mm	125mm	**MT5613121**	Price	**MT2417683**	Price
9mm	125mm	**MT5613122**	Price	**MT2417684**	Price
9.1mm	125mm	**MT5613123**	Price	**MT2417685**	Price
9.2mm	125mm	**MT5613124**	Price	**MT2417686**	Price
9.25mm	125mm	**MT5613125**	Price	**-**	-
9.3mm	125mm	**MT5613126**	Price	**MT2417687**	Price
9.4mm	125mm	**MT5613127**	Price	**MT2417688**	Price
9.5mm	125mm	**MT5613128**	Price	**MT2417689**	Price
9.6mm	133mm	**MT5613129**	Price	**MT2417690**	Price
9.7mm	133mm	**MT5613130**	Price	**MT2417691**	Price
9.75mm	133mm	**MT5613131**	Price	**-**	-
9.8mm	133mm	**MT5613132**	Price	**MT2417692**	Price
9.9mm	133mm	**MT5613133**	Price	**-**	-
10mm	133mm	**MT5613134**	Price	**MT2417693**	Price
10.2mm	133mm	**MT5612858**	Price	**MT2417694**	Price
10.3mm	133mm	**MT5612859**	Price	**-**	-
10.5mm	133mm	**MT5613135**	Price	**MT2417695**	Price
10.8mm	142mm	**MT5612863**	Price	**MT2417696**	Price
11mm	142mm	**MT5613136**	Price	**MT2417697**	Price
11.2mm	142mm	**MT5612866**	Price	**MT2417698**	Price
11.5mm	142mm	**MT5613137**	Price	**MT2417699**	Price
11.8mm	142mm	**MT5612871**	Price	**MT2417700**	Price
12mm	151mm	**MT5613138**	Price	**MT2417701**	Price
12.2mm	151mm	**MT5612874**	Price	**MT2417702**	Price
12.5mm	151mm	**MT5613139**	Price	**MT2417703**	Price
13mm	151mm	**MT5613140**	Price	**MT2417704**	Price
13.5mm	160mm	**MT5612881**	Price	**-**	-
14mm	160mm	**MT5612882**	Price	**-**	-
14.5mm	169mm	**MT5612883**	Price	**-**	-
15mm	169mm	**MT5612884**	Price	**-**	-
15.5mm	178mm	**MT5612885**	Price	**-**	-
16mm	178mm	**MT5612886**	Price	**-**	-
16.5mm	184mm	**MT5612887**	Price	**-**	-
17mm	184mm	**MT5612888**	Price	**-**	-
17.5mm	191mm	**MT5612890**	Price	**-**	-

Metric Jobber Drills

High Speed Steel • 118° Point
Cobalt • 135° Split Point



High Speed Steel - 118° Point
- Designed to perform satisfactorily under a wide variety of normal conditions
- Will work in a broad range of materials and in various types of drilling equipment, both machine and portable

Cobalt - 135° Split Point
- Designed for drilling in stainless steel, titanium and other high tensile strength materials
- Manufactured to NAS 907 Type J Aerospace standards

				High Speed Steel		Cobalt	
Size (mm)	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
.15mm	.0059	3/64	3/4	**AD50015**	Price	-	-
.16mm	.0063	3/64	3/4	**AD50016**	Price	-	-
.17mm	.0067	3/64	3/4	**AD50017**	Price	-	-
.18mm	.0071	1/16	3/4	**AD50018**	Price	-	-
.19mm	.0075	1/16	3/4	**AD50019**	Price	-	-
.2mm	.0079	1/16	3/4	**AD50020**	Price	-	-
.21mm	.0083	1/16	3/4	**AD50021**	Price	-	-
.22mm	.0087	1/16	3/4	**AD50022**	Price	-	-
.23mm	.0091	5/64	3/4	**AD50023**	Price	-	-
.24mm	.0094	5/64	3/4	**AD50024**	Price	-	-
.25mm	.0098	5/64	3/4	**AD50025**	Price	-	-
.26mm	.0102	5/64	3/4	**AD50026**	Price	-	-
.27mm	.0106	5/64	3/4	**AD50027**	Price	-	-
.28mm	.0110	3/32	3/4	**AD50028**	Price	-	-
.29mm	.0114	3/32	3/4	**AD50029**	Price	-	-
.3mm	.0118	3/32	3/4	**AD50030**	Price	-	-
.32mm	.0126	3/32	3/4	**AD50032**	Price	-	-
.34mm	.0134	1/8	3/4	**AD50034**	Price	-	-
.35mm	.0138	1/8	3/4	**AD50035**	Price	-	-
.36mm	.0142	1/8	3/4	**AD50036**	Price	-	-
.38mm	.0150	3/16	3/4	**AD50038**	Price	-	-
.4mm	.0158	3/16	7/8	**AD50040**	Price	-	-
.42mm	.0165	3/16	7/8	**AD50042**	Price	-	-
.44mm	.0173	3/16	7/8	**AD50044**	Price	-	-
.45mm	.0177	3/16	7/8	**AD50045**	Price	-	-
.46mm	.0181	3/16	7/8	**AD50046**	Price	-	-
.48mm	.0189	3/16	7/8	**AD50048**	Price	-	-
.5mm	.0197	3/16	7/8	**AD50050**	Price	-	-
.55mm	.0217	1/4	1	**AD50055**	Price	-	-
.6mm	.0236	5/16	1-1/8	**AD50060**	Price	**AD55060**	Price
.65mm	.0256	3/8	1-1/4	**AD50065**	Price	-	-
.7mm	.0276	3/8	1-1/4	**AD50070**	Price	-	-
.75mm	.0295	1/2	1-3/8	**AD50075**	Price	-	-
.8mm	.0315	1/2	1-3/8	**AD50080**	Price	-	-
.85mm	.0335	5/8	1-1/2	**AD50085**	Price	-	-
.9mm	.0354	5/8	1-1/2	**AD50090**	Price	-	-
.95mm	.0374	5/8	1-1/2	**AD50095**	Price	**AD55095**	Price
1mm	.0394	11/16	1-5/8	**AD50100**	Price	**AD55100**	Price
1.05mm	.0413	11/16	1-5/8	**AD50105**	Price	**AD55105**	Price
1.1mm	.0433	3/4	1-3/4	**AD50110**	Price	**AD55110**	Price
1.15mm	.0453	3/4	1-3/4	**AD50115**	Price	**AD55115**	Price
1.2mm	.0472	7/8	1-7/8	**AD50120**	Price	**AD55120**	Price
1.25mm	.0492	7/8	1-7/8	**AD50125**	Price	**AD55125**	Price
1.3mm	.0512	7/8	1-7/8	**AD50130**	Price	**AD55130**	Price
1.35mm	.0531	7/8	1-7/8	**AD50135**	Price	-	-
1.4mm	.0551	7/8	1-7/8	**AD50140**	Price	**AD55140**	Price
1.45mm	.0571	7/8	1-7/8	**AD50145**	Price	**AD55145**	Price
1.5mm	.0591	7/8	1-7/8	**AD50150**	Price	**AD55150**	Price
1.55mm	.0610	7/8	1-7/8	**AD50155**	Price	**AD55155**	Price
1.6mm	.0630	7/8	1-7/8	**AD50160**	Price	**AD55160**	Price
1.65mm	.0650	1	2	**AD50165**	Price	**AD55165**	Price
1.7mm	.0669	1	2	**AD50170**	Price	**AD55170**	Price
1.75mm	.0689	1	2	**AD50175**	Price	**AD55175**	Price
1.8mm	.0709	1	2	**AD50180**	Price	**AD55180**	Price
1.85mm	.0728	1	2	**AD50185**	Price	**AD55185**	Price
1.9mm	.0748	1	2	**AD50190**	Price	**AD55190**	Price
1.95mm	.0768	1	2	**AD50195**	Price	**AD55195**	Price
2mm	.0787	1-1/8	2-1/8	**AD50200**	Price	**AD55200**	Price
2.05mm	.0807	1-1/8	2-1/8	**AD50205**	Price	**AD55205**	Price
2.1mm	.0827	1-1/8	2-1/8	**AD50210**	Price	**AD55210**	Price
2.15mm	.0846	1-1/8	2-1/8	**AD50215**	Price	**AD55215**	Price
2.2mm	.0866	1-1/4	2-1/4	**AD50220**	Price	**AD55220**	Price
2.25mm	.0886	1-1/4	2-1/4	**AD50225**	Price	**AD55225**	Price
2.3mm	.0906	1-1/4	2-1/4	**AD50230**	Price	**AD55230**	Price
2.35mm	.0925	1-1/4	2-1/4	**AD50235**	Price	**AD55235**	Price
2.4mm	.0945	1-3/8	2-3/8	**AD50240**	Price	**AD55240**	Price
2.45mm	.0965	1-3/8	2-3/8	**AD50245**	Price	**AD55245**	Price
2.5mm	.0984	1-3/8	2-3/8	**AD50250**	Price	**AD55250**	Price
2.6mm	.1024	1-7/16	2-1/2	**AD50260**	Price	**AD55260**	Price
2.7mm	.1063	1-7/16	2-1/2	**AD50270**	Price	**AD55270**	Price
2.75mm	.1083	1-7/16	2-1/2	**AD50275**	Price	**AD55275**	Price
2.8mm	.1102	1-1/2	2-5/8	**AD50280**	Price	**AD55280**	Price
2.9mm	.1142	1-5/8	2-3/4	**AD50290**	Price	**AD55290**	Price
3mm	.1181	1-5/8	2-3/4	**AD50300**	Price	**AD55300**	Price
3.1mm	.1220	1-5/8	2-3/4	**AD50310**	Price	**AD55310**	Price
3.2mm	.1260	1-5/8	2-3/4	**AD50320**	Price	**AD55320**	Price
3.25mm	.1280	1-5/8	2-3/4	**AD50325**	Price	**AD55325**	Price
3.3mm	.1299	1-3/4	2-7/8	**AD50330**	Price	**AD55330**	Price
3.4mm	.1339	1-3/4	2-7/8	**AD50340**	Price	**AD55340**	Price
3.5mm	.1378	1-3/4	2-7/8	**AD50350**	Price	**AD55350**	Price
3.6mm	.1417	1-7/8	3	**AD50360**	Price	**AD55360**	Price
3.7mm	.1457	1-7/8	3	**AD50370**	Price	**AD55370**	Price
3.75mm	.1476	1-7/8	3	**AD50375**	Price	**AD55375**	Price
3.8mm	.1496	2	3	**AD50380**	Price	**AD55380**	Price
3.9mm	.1535	2	3-3/8	**AD50390**	Price	**AD55390**	Price
4mm	.1575	2-1/8	3-1/4	**AD50400**	Price	**AD55400**	Price
4.1mm	.1614	2-1/8	3-1/4	**AD50410**	Price	**AD55410**	Price
4.2mm	.1654	2-1/8	3-1/4	**AD50420**	Price	**AD55420**	Price
4.25mm	.1673	2-1/8	3-1/4	**AD50425**	Price	**AD55425**	Price
4.3mm	.1693	2-1/8	3-1/4	**AD50430**	Price	**AD55430**	Price
4.4mm	.1732	2-3/16	3-3/8	**AD50440**	Price	**AD55440**	Price
4.5mm	.1772	2-3/16	3-3/8	**AD50450**	Price	**AD55450**	Price
4.6mm	.1811	2-3/16	3-3/8	**AD50460**	Price	**AD55460**	Price
4.7mm	.1850	2-5/16	3-1/2	**AD50470**	Price	**AD55470**	Price
4.75mm	.1870	2-5/16	3-1/2	**AD50475**	Price	**AD55475**	Price
4.8mm	.1890	2-5/16	3-1/2	**AD50480**	Price	**AD55480**	Price
4.9mm	.1929	2-7/16	3-5/8	**AD50490**	Price	-	-
5mm	.1968	2-7/16	3-5/8	**AD50500**	Price	**AD55500**	Price
5.1mm	.2008	2-7/16	3-5/8	**AD50510**	Price	**AD55510**	Price
5.2mm	.2047	2-1/2	3-3/4	**AD50520**	Price	**AD55520**	Price
5.25mm	.2067	2-1/2	3-3/4	**AD50525**	Price	**AD55525**	Price
5.3mm	.2087	2-1/2	3-3/4	**AD50530**	Price	**AD55530**	Price
5.4mm	.2126	2-1/2	3-3/4	**AD50540**	Price	**AD55540**	Price
5.5mm	.2165	2-1/2	3-3/4	**AD50550**	Price	**AD55550**	Price
5.6mm	.2205	2-5/8	3-7/8	**AD50560**	Price	**AD55560**	Price
5.7mm	.2244	2-5/8	3-7/8	**AD50570**	Price	**AD55570**	Price
5.75mm	.2264	2-5/8	3-7/8	**AD50575**	Price	**AD55575**	Price
5.8mm	.2283	2-5/8	3-7/8	**AD50580**	Price	**AD55580**	Price
5.9mm	.2323	2-5/8	3-7/8	**AD50590**	Price	**AD55590**	Price
6mm	.2362	2-3/4	4	**AD50600**	Price	**AD55600**	Price

PROCUT Metric Jobber Drills



High Speed Steel • 118° Point
Cobalt • 135° Split Point

High Speed Steel - 118° Point

- Designed to perform satisfactorily under a wide variety of normal conditions
- Will work in a broad range of materials and in various types of drilling equipment, both machine and portable

Cobalt - 135° Split Point

- Designed for drilling in stainless steel, titanium and other high tensile strength materials
- Manufactured to NAS 907 Type J Aerospace standards

				High Speed Steel		Cobalt	
Size (mm)	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
6.1mm	.2402	2-3/4	4	**AD50610**	Price	**AD55610**	Price
6.2mm	.2441	2-3/4	4	**AD50620**	Price	**AD55620**	Price
6.25mm	.2461	2-3/4	4	**AD50625**	Price	**AD55625**	Price
6.3mm	.2480	2-3/4	4	**AD50630**	Price	**AD55630**	Price
6.4mm	.2520	2-7/8	4-1/8	**AD50640**	Price	**AD55640**	Price
6.5mm	.2559	2-7/8	4-1/8	**AD50650**	Price	**AD55650**	Price
6.6mm	.2598	2-7/8	4-1/8	**AD50660**	Price	**AD55660**	Price
6.7mm	.2638	2-7/8	4-1/8	**AD50670**	Price	**AD55670**	Price
6.75mm	.2657	2-7/8	4-1/8	**AD50675**	Price	**AD55675**	Price
6.8mm	.2677	2-7/8	4-1/8	**AD50680**	Price	**AD55680**	Price
6.9mm	.2717	2-7/8	4-1/8	**AD50690**	Price	**AD55690**	Price
7mm	.2756	2-7/8	4-1/8	**AD50700**	Price	**AD55700**	Price
7.1mm	.2795	2-15/16	4-1/4	**AD50710**	Price	**AD55710**	Price
7.2mm	.2835	2-15/16	4-1/4	**AD50720**	Price	**AD55720**	Price
7.25mm	.2854	2-15/16	4-1/4	**-**	-	**AD55725**	Price
7.3mm	.2874	2-15/16	4-1/4	**AD50730**	Price	**AD55730**	Price
7.4mm	.2913	3-1/16	4-3/8	**AD50740**	Price	**AD55740**	Price
7.5mm	.2953	3-1/16	4-3/8	**AD50750**	Price	**AD55750**	Price
7.6mm	.2992	3-1/16	4-3/8	**AD50760**	Price	**-**	-
7.7mm	.3031	3-3/16	4-1/2	**AD50770**	Price	**AD55770**	Price
7.75mm	.3051	3-3/16	4-1/2	**AD50775**	Price	**AD55775**	Price
7.8mm	.3071	3-3/16	4-1/2	**AD50780**	Price	**AD55780**	Price
7.9mm	.3110	3-3/16	4-1/2	**AD50790**	Price	**AD55790**	Price
8mm	.3150	3-3/16	4-1/2	**AD50800**	Price	**AD55800**	Price
8.1mm	.3189	3-5/16	4-5/8	**AD50810**	Price	**AD55810**	Price
8.2mm	.3228	3-5/16	4-5/8	**AD50820**	Price	**AD55820**	Price
8.25mm	.3248	3-5/16	4-5/8	**AD50825**	Price	**AD55825**	Price
8.3mm	.3268	3-5/16	4-5/8	**AD50830**	Price	**AD55830**	Price
8.4mm	.3307	3-7/16	4-3/4	**AD50840**	Price	**AD55840**	Price
8.5mm	.3346	3-7/16	4-3/4	**AD50850**	Price	**AD55850**	Price
8.6mm	.3386	3-7/16	4-3/4	**AD50860**	Price	**AD55860**	Price
8.7mm	.3425	3-7/16	4-3/4	**AD50870**	Price	**AD55870**	Price
8.75mm	.3445	3-7/16	4-3/4	**AD50875**	Price	**AD55875**	Price
8.8mm	.3465	3-1/2	4-7/8	**AD50880**	Price	**AD55880**	Price

				High Speed Steel		Cobalt	
Size (mm)	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
8.9mm	.3504	3-1/2	4-7/8	**AD50890**	Price	**AD55890**	Price
9mm	.3543	3-1/2	4-7/8	**AD50900**	Price	**AD55900**	Price
9.1mm	.3583	3-1/2	4-7/8	**AD50910**	Price	**AD55910**	Price
9.2mm	.3622	3-5/8	5	**AD50920**	Price	**AD55920**	Price
9.25mm	.3642	3-5/8	5	**AD50925**	Price	**AD55925**	Price
9.3mm	.3661	3-5/8	5	**AD50930**	Price	**AD55930**	Price
9.4mm	.3701	3-5/8	5	**AD50940**	Price	**AD55940**	Price
9.5mm	.3740	3-5/8	5	**AD50950**	Price	**AD55950**	Price
9.6mm	.3780	3-3/4	5-1/8	**AD50960**	Price	**AD55960**	Price
9.7mm	.3819	3-3/4	5-1/8	**AD50970**	Price	**AD55970**	Price
9.75mm	.3839	3-3/4	5-1/8	**AD50975**	Price	**AD55975**	Price
9.8mm	.3858	3-3/4	5-1/8	**AD50980**	Price	**-**	-
9.9mm	.3898	3-3/4	5-1/8	**AD50990**	Price	**AD55990**	Price
10mm	.3937	3-3/4	5-1/8	**AD501000**	Price	**AD551000**	Price
10.2mm	.4016	3-7/8	5-1/4	**AD501020**	Price	**AD551020**	Price
10.5mm	.4134	3-15/16	5-3/8	**AD501050**	Price	**AD551050**	Price
10.8mm	.4252	4-1/16	5-1/2	**AD501080**	Price	**AD551080**	Price
11mm	.4331	4-1/16	5-1/2	**AD501100**	Price	**AD551100**	Price
11.2mm	.4409	4-3/16	5-5/8	**AD501120**	Price	**-**	-
11.5mm	.4528	4-3/16	5-5/8	**AD501150**	Price	**AD551150**	Price
11.8mm	.4646	4-5/16	5-3/4	**AD501180**	Price	**AD551180**	Price
12mm	.4724	4-3/8	5-7/8	**AD501200**	Price	**AD551200**	Price
12.2mm	.4803	4-3/8	5-7/8	**AD501220**	Price	**AD551220**	Price
12.5mm	.4921	4-1/2	6	**AD501250**	Price	**AD551250**	Price
13mm	.5118	4-1/2	6	**AD501300**	Price	**AD551300**	Price
13.5mm	.5315	4-13/16	6-5/8	**AD501350**	Price	**-**	-
14mm	.5512	4-13/16	6-5/8	**AD501400**	Price	**-**	-
14.5mm	.5709	4-13/16	6-5/8	**AD501450**	Price	**-**	-
15mm	.5906	5-3/16	7-1/8	**AD501500**	Price	**-**	-
15.5mm	.6102	5-3/16	7-1/8	**AD501550**	Price	**-**	-
16mm	.6299	5-3/16	7-1/8	**AD501600**	Price	**-**	-
16.5mm	.6496	5-3/16	7-1/8	**AD501650**	Price	**-**	-
17mm	.6693	5-5/8	7-5/8	**AD501700**	Price	**-**	-
17.5mm	.6890	5-5/8	7-5/8	**AD501750**	Price	**-**	-



Huot Metric Folding Indexes

- Drills not included

Size Range	Order No.	Price
1 to 10mm x 0.5mm	**AP534019**	Price
1 to 13mm x 0.5mm	**AP534025**	Price
1 to 6mm x 0.5mm	**AP534011**	Price
1 to 7mm x 0.5mm	**AP534013**	Price

PROCUT Metric HSS Jobber Drill Sets

with Steel Indexes • Ground from Solid M-2
Bright Finish



Set Range	Finish	Order No.	Price
1mm - 13mm by .5mm	Bright Finish	**AP50EC2AH**	Price
1mm - 13mm by .5mm	Surface Treated	**AP50EC2AHB**	Price

Heavy Duty Jobber Drills

High Speed Steel • 135° Split Point

- Heavy duty (NAS 907 Type B)
- Originally designed to drill cotter pin holes, these heavy duty drills are suitable for drilling high tensile strength steels
- 135° split point is self-centering, and reduces “walking” at the drill point
- Designed for high production drilling of a wide variety of materials
- Perform well under many different operating conditions
- **Fractional sizes 3/64 and smaller are NOT split point**
- Morse List #1385
- Precision Twist List #R10B



HSS M GP RAPIDKUT

		Morse Cutting Tools		Rapidkut		Precision Twist Drill	
Size (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/32	1-3/8	**MT5514315†**	Price	**AC51002†**	Price	**-**	-
3/64	1-3/4	**MT5514328†**	Price	**AC51003†**	Price	**-**	-
1/16	1-7/8	**MT5514451**	Price	**AC51004**	Price	**PT1210204**	Price
5/64	2	**MT5514457**	Price	**AC51005**	Price	**PT1210205**	Price
3/32	2-1/4	**MT5514464**	Price	**AC51006**	Price	**PT1210206**	Price
7/64	2-5/8	**MT5514471**	Price	**AC51007**	Price	**PT1210207**	Price
1/8	2-3/4	**MT5514477**	Price	**AC51008**	Price	**PT1210208**	Price
9/64	2-7/8	**MT5514481**	Price	**AC51009**	Price	**PT1210209**	Price
5/32	3-1/8	**MT5514487**	Price	**AC51010**	Price	**PT1210210**	Price
11/64	3-1/4	**MT5514493**	Price	**AC51011**	Price	**PT1210211**	Price
3/16	3-1/2	**MT5514499**	Price	**AC51012**	Price	**PT1210212**	Price
13/64	3-5/8	**MT5514506**	Price	**AC51013**	Price	**PT1210213**	Price
7/32	3-3/4	**MT5514511**	Price	**AC51014**	Price	**PT1210214**	Price
15/64	3-7/8	**MT5514515**	Price	**AC51015**	Price	**PT1210215**	Price
1/4, E	4	**MT5514519**	Price	**AC51016**	Price	**PT1210216**	Price
17/64	4-1/8	**MT5514523**	Price	**AC51017**	Price	**PT1210217**	Price
9/32	4-1/4	**MT5514528**	Price	**AC51018**	Price	**PT1210218**	Price
19/64	4-3/8	**MT5514531**	Price	**AC51019**	Price	**PT1210219**	Price
5/16	4-1/2	**MT5514533**	Price	**AC51020**	Price	**PT1210220**	Price
21/64	4-5/8	**MT5514536**	Price	**AC51021**	Price	**PT1210221**	Price
11/32	4-3/4	**MT5514539**	Price	**AC51022**	Price	**PT1210222**	Price
23/64	4-7/8	**MT5514542**	Price	**AC51023**	Price	**PT1210223**	Price
3/8	5	**MT5514544**	Price	**AC51024**	Price	**PT1210224**	Price
25/64	5-1/8	**MT5514547**	Price	**AC51025**	Price	**PT1210225**	Price
13/32	5-1/4	**MT5514550**	Price	**AC51026**	Price	**PT1210226**	Price
27/64	5-3/8	**MT5514552**	Price	**AC51027**	Price	**PT1210227**	Price
7/16	5-1/2	**MT5514553**	Price	**AC51028**	Price	**PT1210228**	Price
29/64	5-5/8	**MT5514554**	Price	**AC51029**	Price	**PT1210229**	Price
15/32	5-3/4	**MT5514555**	Price	**AC51030**	Price	**PT1210230**	Price
31/64	5-7/8	**MT5514556**	Price	**AC51031**	Price	**PT1210231**	Price
1/2	6	**MT5514557**	Price	**AC51032**	Price	**PT1210232**	Price

† Sizes not split point

Heavy Duty 135° Jobber Drills - Letter Sizes

High Speed Steel • 135° Split Point

- Heavy duty (NAS 907 Type B)
- Originally designed to drill cotter pin holes, these heavy duty drills are suitable for drilling high tensile strength steels
- 135° split point is self-centering, and reduces “walking” at the drill point
- Designed for high production drilling of a wide variety of materials
- Perform well under many different operating conditions
- Morse List #1385
- Precision Twist List #R15B



HSS M GP RAPIDKUT

		Morse Cutting Tools		Rapidkut		Precision Twist Drill	
Size	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
A	3-7/8	**MT5514514**	Price	**AC51201**	Price	**PT1215201**	Price
B	4	**MT5514516**	Price	**AC51202**	Price	**PT1215202**	Price
C	4	**MT5514517**	Price	**AC51203**	Price	**PT1215203**	Price
D	4	**MT5514518**	Price	**AC51204**	Price	**PT1215204**	Price
E	4	**MT5514519**	Price	**AC51205**	Price	**-**	-
F	4-1/8	**MT5514521**	Price	**AC51206**	Price	**PT1215206**	Price
G	4-1/8	**MT5514522**	Price	**AC51207**	Price	**PT1215207**	Price
H	4-1/8	**MT5514524**	Price	**AC51208**	Price	**PT1215208**	Price
I	4-1/8	**MT5514525**	Price	**AC51209**	Price	**PT1215209**	Price
J	4-1/8	**MT5514526**	Price	**AC51210**	Price	**PT1215210**	Price
K	4-1/4	**MT5514527**	Price	**AC51211**	Price	**PT1215211**	Price
L	4-1/4	**MT5514529**	Price	**AC51212**	Price	**PT1215212**	Price
M	4-3/8	**MT5514530**	Price	**AC51213**	Price	**PT1215213**	Price
N	4-3/8	**MT5514532**	Price	**AC51214**	Price	**PT1215214**	Price
O	4-1/2	**MT5514534**	Price	**AC51215**	Price	**PT1215215**	Price
P	4-5/8	**MT5514535**	Price	**AC51216**	Price	**PT1215216**	Price
Q	4-3/4	**MT5514537**	Price	**AC51217**	Price	**PT1215217**	Price
R	4-3/4	**MT5514538**	Price	**AC51218**	Price	**PT1215218**	Price
S	4-7/8	**MT5514540**	Price	**AC51219**	Price	**PT1215219**	Price
T	4-7/8	**MT5514541**	Price	**AC51220**	Price	**PT1215220**	Price
U	5	**MT5514543**	Price	**AC51221**	Price	**PT1215221**	Price
V	5	**MT5514545**	Price	**AC51222**	Price	**PT1215222**	Price
W	5-1/8	**MT5514546**	Price	**AC51223**	Price	**PT1215223**	Price
X	5-1/8	**MT5514548**	Price	**AC51224**	Price	**PT1215224**	Price
Y	5-1/4	**MT5514549**	Price	**AC51225**	Price	**PT1215225**	Price
Z	5-1/4	**MT5514551**	Price	**AC51226**	Price	**PT1215226**	Price

† Precision Dormer “E” use PT1210216

HSS M GP Ambore™ Wide Land Parabolic Flute Jobber Length Drills

High Speed Steel • 135° Split Point • Heavy Duty



- 135° Self-centering point eliminates “walking” and reduces thrust
- Parabolic flute design enhances chip flow, coolant flow, and heat dissipation especially in deeper drilling operations
- Recommended for a wide range of material types
- Morse List #1354

Size (in.)	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	.0625	7/8	1-7/8	**MT7815401**	Price
5/64	.0781	1	2	**MT7815402**	Price
3/32	.0938	1-1/4	2-1/4	**MT7815403**	Price
7/64	.1094	1-1/2	2-5/8	**MT7815404**	Price
1/8	.1250	1-5/8	2-3/4	**MT7815405**	Price
9/64	.1406	1-3/4	2-7/8	**MT7815406**	Price
5/32	.1562	2	3-1/8	**MT7815407**	Price
11/64	.1719	2-1/8	3-1/4	**MT7815408**	Price
3/16	.1875	2-5/16	3-1/2	**MT7815409**	Price
13/64	.2031	2-7/16	3-5/8	**MT7815410**	Price
7/32	.2188	2-1/2	3-3/4	**MT7815411**	Price
15/64	.2344	2-5/8	3-7/8	**MT7815412**	Price
1/4	.2500	2-3/4	4	**MT7815413**	Price
17/64	.2656	2-7/8	4-1/8	**MT7815414**	Price
9/32	.2812	2-15/16	4-1/4	**MT7815415**	Price
19/64	.2969	3-1/16	4-3/8	**MT7815416**	Price
5/16	.3125	3-3/16	4-1/2	**MT7815417**	Price
21/64	.3281	3-5/16	4-5/8	**MT7815418**	Price
11/32	.3438	3-7/16	4-3/4	**MT7815419**	Price
23/64	.3594	3-1/2	4-7/8	**MT7815420**	Price
3/8	.3750	3-5/8	5	**MT7815421**	Price
25/64	.3906	3-3/4	5-1/8	**MT7815422**	Price
13/32	.4062	3-7/8	5-1/4	**MT7815423**	Price
27/64	.4219	3-15/16	5-3/8	**MT7815424**	Price
7/16	.4375	4-1/16	5-1/2	**MT7815425**	Price
29/64	.4531	4-3/16	5-5/8	**MT7815426**	Price
15/32	.4688	4-5/16	5-3/4	**MT7815427**	Price
31/64	.4844	4-3/8	5-7/8	**MT7815428**	Price
1/2	.5000	4-1/2	6	**MT7815429**	Price

Heavy Duty Jobber Drills

High Speed Steel • 135° Split Point • Black Oxide Finish



- Originally designed to drill cotter pin holes, these heavy duty drills are suitable for drilling high tensile strength steels
- 135° split point is self-centering, and reduces “walking” at the drill point
- Designed for high production drilling of a wide variety of materials
- Perform well under many different operating conditions
- Heavy duty (NAS907 Type B)
- **Wire gage sizes #53 thru #80 are NOT split point**
- Morse List #1385
- Precision Twist List #R18B

		Morse Cutting Tools		Rapidkut		Precision Twist Drill	
Size	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1	3-7/8	**MT5514513**	Price	**AC51101**	Price	**PT1218201**	Price
2	3-7/8	**MT5514512**	Price	**AC51102**	Price	**PT1218202**	Price
3	3-3/4	**MT5514510**	Price	**AC51103**	Price	**PT1218203**	Price
4	3-3/4	**MT5514509**	Price	**AC51104**	Price	**PT1218204**	Price
5	3-3/4	**MT5514508**	Price	**AC51105**	Price	**PT1218205**	Price
6	3-3/4	**MT5514507**	Price	**AC51106**	Price	**PT1218206**	Price
7	3-5/8	**MT5514505**	Price	**AC51107**	Price	**PT1218207**	Price
8	3-5/8	**MT5514504**	Price	**AC51108**	Price	**PT1218208**	Price
9	3-5/8	**MT5514503**	Price	**AC51109**	Price	**PT1218209**	Price
10	3-5/8	**MT5514502**	Price	**AC51110**	Price	**PT1218210**	Price
11	3-1/2	**MT5514501**	Price	**AC51111**	Price	**PT1218211**	Price
12	3-1/2	**MT5514500**	Price	**AC51112**	Price	**PT1218212**	Price
13	3-1/2	**MT5514498**	Price	**AC51113**	Price	**PT1218213**	Price
14	3-3/8	**MT5514497**	Price	**AC51114**	Price	**PT1218214**	Price
15	3-3/8	**MT5514496**	Price	**AC51115**	Price	**PT1218215**	Price
16	3-3/8	**MT5514495**	Price	**AC51116**	Price	**PT1218216**	Price
17	3-3/8	**MT5514494**	Price	**AC51117**	Price	**PT1218217**	Price
18	3-1/4	**MT5514492**	Price	**AC51118**	Price	**PT1218218**	Price
19	3-1/4	**MT5514491**	Price	**AC51119**	Price	**PT1218219**	Price
20	3-1/4	**MT5514490**	Price	**AC51120**	Price	**PT1218220**	Price
21	3-1/4	**MT5514489**	Price	**AC51121**	Price	**PT1218221**	Price
22	3-1/8	**MT5514488**	Price	**AC51122**	Price	**PT1218222**	Price
23	3-1/8	**MT5514486**	Price	**AC51123**	Price	**PT1218223**	Price
24	3-1/8	**MT5514485**	Price	**AC51124**	Price	**PT1218224**	Price
25	3	**MT5514484**	Price	**AC51125**	Price	**PT1218225**	Price
26	3	**MT5514483**	Price	**AC51126**	Price	**PT1218226**	Price
27	3	**MT5514482**	Price	**AC51127**	Price	**PT1218227**	Price
28	2-7/8	**MT5514480**	Price	**AC51128**	Price	**PT1218228**	Price
29	2-7/8	**MT5514479**	Price	**AC51129**	Price	**PT1218229**	Price
30	2-3/4	**MT5514478**	Price	**AC51130**	Price	**PT1218230**	Price
31	2-3/4	**MT5514476**	Price	**AC51131**	Price	**PT1218231**	Price
32	2-3/4	**MT5514475**	Price	**AC51132**	Price	**PT1218232**	Price
33	2-5/8	**MT5514474**	Price	**AC51133**	Price	**PT1218233**	Price
34	2-5/8	**MT5514473**	Price	**AC51134**	Price	**PT1218234**	Price
35	2-5/8	**MT5514472**	Price	**AC51135**	Price	**PT1218235**	Price
36	2-1/2	**MT5514470**	Price	**AC51136**	Price	**PT1218236**	Price
37	2-1/2	**MT5514469**	Price	**AC51137**	Price	**PT1218237**	Price
38	2-1/2	**MT5514468**	Price	**AC51138**	Price	**PT1218238**	Price
39	2-3/8	**MT5514467**	Price	**AC51139**	Price	**PT1218239**	Price
40	2-3/8	**MT5514466**	Price	**AC51140**	Price	**PT1218240**	Price
41	2-3/8	**MT5514465**	Price	**AC51141**	Price	**PT1218241**	Price
42	2-1/4	**MT5514463**	Price	**AC51142**	Price	**PT1218242**	Price

		Morse Cutting Tools		Rapidkut		Precision Twist Drill	
Size	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
43	2-1/4	**MT5514462**	Price	**AC51143**	Price	**PT1218243**	Price
44	2-1/8	**MT5514461**	Price	**AC51144**	Price	**PT1218244**	Price
45	2-1/8	**MT5514460**	Price	**AC51145**	Price	**PT1218245**	Price
46	2-1/8	**MT5514459**	Price	**AC51146**	Price	**PT1218246**	Price
47	2	**MT5514458**	Price	**AC51147**	Price	**PT1218247**	Price
48	2	**MT5514456**	Price	**AC51148**	Price	**PT1218248**	Price
49	2	**MT5514455**	Price	**AC51149**	Price	**PT1218249**	Price
50	2	**MT5514454**	Price	**AC51150**	Price	**PT1218250**	Price
51	2	**MT5514453**	Price	**AC51151**	Price	**PT1218251**	Price
52	1-7/8	**MT5514452**	Price	**AC51152**	Price	**PT1218252**	Price
53	1-7/8	**MT5514331†**	Price	**AC51153†**	Price	-	-
54	1-7/8	**MT5514330†**	Price	**AC51154†**	Price	-	-
55	1-7/8	**MT5514329†**	Price	**AC51155†**	Price	-	-
56	1-3/4	**MT5514327†**	Price	**AC51156†**	Price	-	-
57	1-3/4	**MT5514326†**	Price	**AC51157†**	Price	-	-
58	1-5/8	**MT5514325†**	Price	**AC51158†**	Price	-	-
59	1-5/8	**MT5514324†**	Price	**AC51159†**	Price	-	-
60	1-5/8	-	-	**AC51160†**	Price	-	-
61	1-5/8	**MT5514322†**	Price	**AC51161†**	Price	-	-
62	1-1/2	**MT5514321†**	Price	**AC51162†**	Price	-	-
63	1-1/2	**MT5514320†**	Price	**AC51163†**	Price	-	-
64	1-1/2	**MT5514319†**	Price	**AC51164†**	Price	-	-
65	1-1/2	**MT5514318†**	Price	**AC51165†**	Price	-	-
66	1-3/8	**MT5514317†**	Price	**AC51166†**	Price	-	-
67	1-3/8	**MT5514316†**	Price	**AC51167†**	Price	-	-
68	1-3/8	**MT5514314†**	Price	**AC51168†**	Price	-	-
69	1-3/8	**MT5514313†**	Price	**AC51169†**	Price	-	-
70	1-1/4	**MT5514312†**	Price	**AC51170†**	Price	-	-
71	1-1/4	**MT5514311†**	Price	**AC51171†**	Price	-	-
72	1-1/8	**MT5514310†**	Price	**AC51172†**	Price	-	-
73	1-1/8	**MT5514309†**	Price	**AC51173†**	Price	-	-
74	1	**MT5514308†**	Price	**AC51174†**	Price	-	-
75	1	**MT5514307†**	Price	**AC51175†**	Price	-	-
76	3/4	**MT5514306†**	Price	-	-	-	-
76	7/8	-	-	**AC51176†**	Price	-	-
77	3/4	**MT5514305†**	Price	-	-	-	-
77	7/8	-	-	**AC51177†**	Price	-	-
78	3/4	**MT5514304†**	Price	-	-	-	-
78	7/8	-	-	**AC51178†**	Price	-	-
79	3/4	**MT5514302†**	Price	**AC51179†**	Price	-	-
80	3/4	**MT5514301†**	Price	**AC51180†**	Price	-	-

† Sizes not split point

Heavy Duty Jobber Drill Sets

High Speed Steel • 135° Split Point • Surface Treated

- Includes 29 Pieces 1/16” - 1/2” x 64ths
- Complete with index
- 135° Split point is self-centering and reduces “walking” at the drill point
- Drills ground from solid



Brand	Set Range	Order No.	Price
RAPIDKUT	1/16" - 1/2" by 64ths	**AP50C162HDSP**	Price
HSS M GP	1/16" - 1/2" by 64ths	**MT1218172**	Price

Drill Stop Sets

- For twist or brad point drills
- Assures exact hole depth
- Prevents damage from excessive drill penetration



6 Piece Set



7 Piece Set

No. of Pieces	Sizes (in.)	Order No.	Price
6	3/16, 1/4, 5/16, 3/8, 7/16, 1/2	**NE50S838**	Price
7	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2	**NE60100**	Price

Heavy Duty Jobber Drills

High Speed Steel • 135° Split Point

- Unique surface treatment for improved wear resistance in hard ferrous alloys
- Low thrust design self-centering split point for easier penetration
- Precision Twist List #HX10 (fractional sizes), HX18 (wire gage sizes), HX15 (letter sizes)



Size Type - Fractional Size					
Size	Decimal Equivalent	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	.0625	7/8	1-7/8	**PT1222004**	Price
5/64	.0781	1	2	**PT1222005**	Price
3/32	.0938	1-1/4	2-1/4	**PT1222006**	Price
7/64	.1094	1-1/2	2-5/8	**PT1222007**	Price
1/8	.1250	1-5/8	2-3/4	**PT1222008**	Price
9/64	.1406	1-3/4	2-7/8	**PT1222009**	Price
5/32	.1562	2	3-1/8	**PT1222010**	Price
11/64	.1719	2-1/8	3-1/4	**PT1222011**	Price
3/16	.1875	2-5/16	3-1/2	**PT1222012**	Price
13/64	.2031	2-7/16	3-5/8	**PT1222013**	Price
7/32	.2188	2-1/2	3-3/4	**PT1222014**	Price
15/64	.2344	2-5/8	3-7/8	**PT1222015**	Price
1/4	.2500	2-3/4	4	**PT1222016**	Price
17/64	.2656	2-7/8	4-1/8	**PT1222017**	Price
9/32	.2812	2-15/16	4-1/4	**PT1222018**	Price
19/64	.2969	3-1/16	4-3/8	**PT1222019**	Price
5/16	.3125	3-3/16	4-1/2	**PT1222020**	Price
21/64	.3281	3-5/16	4-5/8	**PT1222021**	Price
11/32	.3438	3-7/16	4-3/4	**PT1222022**	Price
23/64	.3594	3-1/2	4-7/8	**PT1222023**	Price
3/8	.3750	3-5/8	5	**PT1222024**	Price
25/64	.3906	3-3/4	5-1/8	**PT1222025**	Price
13/32	.4062	3-7/8	5-1/4	**PT1222026**	Price
27/64	.4219	3-15/16	5-3/8	**PT1222027**	Price
7/16	.4375	4-1/16	5-1/2	**PT1222028**	Price
29/64	.4531	4-3/16	5-5/8	**PT1222029**	Price
15/32	.4688	4-5/16	5-3/4	**PT1222030**	Price
31/64	.4844	4-3/8	5-7/8	**PT1222031**	Price
1/2	.5000	4-1/2	6	**PT1222032**	Price

Size Type - Letter Size					
Size	Decimal Equivalent	Flute Length (in.)	OAL (in.)	Order No.	Price
A	.2340	2-5/8	3-7/8	**PT1222201**	Price
B	.2380	2-3/4	4	**PT1222202**	Price
C	.2420	2-3/4	4	**PT1222203**	Price
D	.2460	2-3/4	4	**PT1222204**	Price
F	.2570	2-7/8	4-1/8	**PT1222206**	Price
G	.2610	2-7/8	4-1/8	**PT1222207**	Price
H	.2660	2-7/8	4-1/8	**PT1222208**	Price
I	.2720	2-7/8	4-1/8	**PT1222209**	Price
J	.2770	2-7/8	4-1/8	**PT1222210**	Price
K	.2810	2-15/16	4-1/4	**PT1222211**	Price
L	.2900	2-15/16	4-1/4	**PT1222212**	Price
M	.2950	3-1/16	4-3/8	**PT1222213**	Price
N	.3020	3-1/16	4-3/8	**PT1222214**	Price
O	.3160	3-3/16	4-1/2	**PT1222215**	Price
P	.3230	3-5/16	4-5/8	**PT1222216**	Price
Q	.3320	3-7/16	4-3/4	**PT1222217**	Price
R	.3390	3-7/16	4-3/4	**PT1222218**	Price
S	.3480	3-1/2	4-7/8	**PT1222219**	Price
T	.3580	3-1/2	4-7/8	**PT1222220**	Price
U	.3680	3-5/8	5	**PT1222221**	Price
V	.3770	3-5/8	5	**PT1222222**	Price
W	.3858	3-3/4	5-1/8	**PT1222223**	Price
X	.3969	3-3/4	5-1/8	**PT1222224**	Price
Y	.4039	3-7/8	5-1/4	**PT1222225**	Price
Z	.4130	3-7/8	5-1/4	**PT1222226**	Price

Size Type - Wire Gage Size					
Size	Decimal Equivalent	Flute Length (in.)	OAL (in.)	Order No.	Price
1	.2280	2-5/8	3-7/8	**PT1222101**	Price
2	.2210	2-5/8	3-7/8	**PT1222102**	Price
3	.2130	2-1/2	3-3/4	**PT1222103**	Price
4	.2090	2-1/2	3-3/4	**PT1222104**	Price
5	.2055	2-1/2	3-3/4	**PT1222105**	Price
6	.2040	2-1/2	3-3/4	**PT1222106**	Price
7	.2010	2-7/16	3-5/8	**PT1222107**	Price
8	.1990	2-7/16	3-5/8	**PT1222108**	Price
9	.1960	2-7/16	3-5/8	**PT1222109**	Price
10	.1935	2-7/16	3-5/8	**PT1222110**	Price
11	.1910	2-5/16	3-1/2	**PT1222111**	Price
12	.1890	2-5/16	3-1/2	**PT1222112**	Price
13	.1850	2-5/16	3-1/2	**PT1222113**	Price
14	.1820	2-3/16	3-3/8	**PT1222114**	Price
15	.1800	2-3/16	3-3/8	**PT1222115**	Price
16	.1770	2-3/16	3-3/8	**PT1222116**	Price
17	.1730	2-3/16	3-3/8	**PT1222117**	Price
18	.1695	2-1/8	3-1/4	**PT1222118**	Price
19	.1660	2-1/8	3-1/4	**PT1222119**	Price
20	.1610	2-1/8	3-1/4	**PT1222120**	Price
21	.1590	2-1/8	3-1/4	**PT1222121**	Price
22	.1570	2	3-1/8	**PT1222122**	Price
23	.1540	2	3-1/8	**PT1222123**	Price
24	.1520	2	3-1/8	**PT1222124**	Price
25	.1495	1-7/8	3	**PT1222125**	Price
26	.1470	1-7/8	3	**PT1222126**	Price
27	.1440	1-7/8	3	**PT1222127**	Price
28	.1405	1-3/4	2-7/8	**PT1222128**	Price
29	.1360	1-3/4	2-7/8	**PT1222129**	Price
30	1285	1-5/8	2-3/4	**PT1222130**	Price
31	.1200	1-5/8	2-3/4	**PT1222131**	Price
32	.1160	1-5/8	2-3/4	**PT1222132**	Price
33	.1130	1-1/2	2-5/8	**PT1222133**	Price
34	.1110	1-1/2	2-5/8	**PT1222134**	Price
35	.1100	1-1/2	2-5/8	**PT1222135**	Price
36	.1065	1-7/16	2-1/2	**PT1222136**	Price
37	.1040	1-7/16	2-1/2	**PT1222137**	Price
38	.1015	1-7/16	2-1/2	**PT1222138**	Price
39	.0995	1-3/8	2-3/8	**PT1222139**	Price
40	.0980	1-3/8	2-3/8	**PT1222140**	Price
41	.0960	1-3/8	2-3/8	**PT1222141**	Price
42	.0935	1-1/4	2-1/4	**PT1222142**	Price
43	.0890	1-1/4	2-1/4	**PT1222143**	Price
44	.0860	1-1/8	2-1/8	**PT1222144**	Price
45	.0820	1-1/8	2-1/8	**PT1222145**	Price
46	.0810	1-1/8	2-1/8	**PT1222146**	Price
47	.0785	1	2	**PT1222147**	Price
48	.0760	1	2	**PT1222148**	Price
49	.0730	1	2	**PT1222149**	Price
50	.0700	1	2	**PT1222150**	Price
51	.0670	1	2	**PT1222151**	Price
52	.0635	7/8	1-7/8	**PT1222152**	Price

Heavy Duty Jobber Drill Set

High Speed Steel • 135° Split Point

- 29 Piece set, includes 1/16" - 1/2" x 64ths, plastic index
- Unique surface treatment for improved wear resistance in hard ferrous alloys
- Precision Twist List #HX10



Order No.	Price
PT2791010	Price

RAPIDKUT® Premium Heavy Duty "Dyno Drill" & Morse Ambore Jobber Drills

High Speed Steel • 135° Split Point • Gold with Black Oxide Surface Treatment



- Suitable for drilling high tensile strength steels
- The 135° split points are self-centering and prevent "walking"
- Available in fractional sizes only
- Morse List #1384

HSS MORSE M GP RAPIDKUT®

			Morse Cutting Tools		Rapidkut	
Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/16	7/8	1-7/8	MT7812062	Price	AC80004	Price
5/64	1	2	MT7812063	Price	AC80005	Price
3/32	1-1/4	2-1/4	MT7812064	Price	AC80006	Price
7/64	1-1/2	2-5/8	MT7812065	Price	AC80007	Price
1/8	1-5/8	2-3/4	MT7812066	Price	AC80008	Price
9/64	1-3/4	2-7/8	MT7812067	Price	AC80009	Price
5/32	2	3-1/8	MT7812068	Price	AC80010	Price
11/64	2-1/8	3-1/4	MT7812069	Price	AC80011	Price
3/16	2-5/16	31/2	MT7812070	Price	AC80012	Price
13/64	2-7/16	3-5/8	MT7812071	Price	AC80013	Price
7/32	2-1/2	3-3/4	MT7812072	Price	AC80014	Price
15/64	2-5/8	3-7/8	MT7812073	Price	AC80015	Price
1/4	2-3/4	4	MT7812074	Price	AC80016	Price
17/64	2-7/8	4-1/8	MT7812075	Price	AC80017	Price
9/32	2-15/16	4-1/4	MT7812076	Price	AC80018	Price
19/64	3-1/16	4-3/8	MT7812077	Price	AC80019	Price
5/16	3-3/16	4-1/2	MT7812078	Price	AC80020	Price
21/64	3-5/16	4-5/8	MT7812079	Price	AC80021	Price
11/32	3-7/16	4-3/4	MT7812080	Price	AC80022	Price
23/64	3-1/2	4-7/8	MT7812081	Price	AC80023	Price
3/8	3-5/8	5	MT7812082	Price	AC80024	Price
25/64	3-3/4	5-1/8	MT7812083	Price	AC80025	Price
13/32	3-7/8	5-1/4	MT7812084	Price	AC80026	Price
27/64	3-15/16	5-3/8	MT7812085	Price	AC80027	Price
7/16	4-1/16	5-1/2	MT7812086	Price	AC80028	Price
29/64	4-3/16	5-5/8	MT7812087	Price	AC80029	Price
15/32	4-5/16	5-3/4	MT7812088	Price	AC80030	Price
31/64	4-3/8	5-7/8	MT7812089	Price	AC80031	Price
1/2	4-1/2	6	MT7812090	Price	AC80032	Price

Heavy Duty Jobber Drills

Cobalt • 135° Split Point



- For drilling in tough, high tensile strength materials like stainless steels, titanium and inconel
- Made of heat resistant cobalt high speed steel
- Made to NAS907 Type J specifications
- Designed for high production drilling of a wide variety of materials
- Perform well under many different operating conditions
- Morse List #2330
- Precision Twist List #R10CO

HSS MORSE M GP RAPIDKUT® PROCUT

		Morse Cutting Tools		Rapidkut		Precision Twist Drill		ProCut	
Size (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/64	3/4	-	-	AC52001†	Price	PT1110301†	Price	-	-
1/32	1-3/8	-	-	AC52002†	Price	PT1110302†	Price	-	-
3/64	1-3/4	MT1117106†	2.26	AC52003†	Price	PT1110303†	Price	-	-
1/16	1-7/8	MT1117110	Price	AC52004	Price	PT1110304	Price	AC45004	Price
5/64	2	MT1117116	Price	AC52005	Price	PT1110305	Price	AC45005	Price
3/32	2-1/4	MT1117123	Price	AC52006	Price	PT1110306	Price	AC45006	Price
7/64	2-5/8	MT1117130	Price	AC52007	Price	PT1110307	Price	AC45007	Price
1/8	2-3/4	MT1117136	Price	AC52008	Price	PT1110308	Price	AC45008	Price
9/64	2-7/8	MT1117140	Price	AC52009	Price	PT1110309	Price	AC45009	Price
5/32	3-1/8	MT1117146	Price	AC52010	Price	PT1110310	Price	AC45010	Price
11/64	3-1/4	MT1117152	Price	AC52011	Price	PT1110311	Price	AC45011	Price
3/16	3-1/2	MT1117158	Price	AC52012	Price	PT1110312	Price	AC45012	Price
13/64	3-5/8	MT1117165	Price	AC52013	Price	PT1110313	Price	AC45013	Price
7/32	3-3/4	MT1117170	Price	AC52014	Price	PT1110314	Price	AC45014	Price
15/64	3-7/8	MT1117174	Price	AC52015	Price	PT1110315	Price	AC45015	Price
1/4, E	4	MT1117178	Price	AC52016	Price	PT1110316	Price	AC45016	Price
17/64	4-1/8	MT1117182	Price	AC52017	Price	PT1110317	Price	AC45017	Price
9/32	4-1/4	MT1117187	Price	AC52018	Price	PT1110318	Price	AC45018	Price
19/64	4-3/8	MT1117190	Price	AC52019	Price	PT1110319	Price	AC45019	Price
5/16	4-1/2	MT1117192	Price	AC52020	Price	PT1110320	Price	AC45020	Price
21/64	4-5/8	MT1117195	Price	AC52021	Price	PT1110321	Price	AC45021	Price
11/32	4-3/4	MT1117198	Price	AC52022	Price	PT1110322	Price	AC45022	Price
23/64	4-7/8	MT1117201	Price	AC52023	Price	PT1110323	Price	AC45023	Price
3/8	5	MT1117203	Price	AC52024	Price	PT1110324	Price	AC45024	Price
25/64	5-1/8	MT1117206	Price	AC52025	Price	PT1110325	Price	AC45025	Price
13/32	5-1/4	MT1117209	Price	AC52026	Price	PT1110326	Price	AC45026	Price
27/64	5-3/8	MT1117211	Price	AC52027	Price	PT1110327	Price	AC45027	Price
7/16	5-1/2	MT1117212	Price	AC52028	Price	PT1110328	Price	AC45028	Price
29/64	5-5/8	MT1117213	Price	AC52029	Price	PT1110329	Price	AC45029	Price
15/32	5-3/4	MT1117214	Price	AC52030	Price	PT1110330	Price	AC45030	Price
31/64	5-7/8	MT1117215	Price	AC52031	Price	PT1110331	Price	AC45031	Price
1/2	6	MT1117216	Price	AC52032	Price	PT1110332	Price	AC45032	Price
33/64	6-5/8	-	-	AC52033	Price	PT1110333	Price	AC45033	Price
17/32	6-5/8	-	-	AC52034	Price	PT1110334	Price	AC45034	Price
35/64	6-5/8	-	-	AC52035	Price	PT1110335	Price	-	-
9/16	6-5/8	-	-	AC52036	Price	PT1110336	Price	AC45036	Price
37/64	6-5/8	-	-	AC52037	Price	PT1110337	Price	AC45037	Price
19/32	7-1/8	-	-	AC52038	Price	PT1110338	Price	AC45038	Price
39/64	7-1/8	-	-	AC52039	Price	PT1110339	Price	AC45039	Price
5/8	7-1/8	-	-	AC52040	Price	PT1110340	Price	AC45040	Price
41/64	7-1/8	-	-	AC52041	Price	PT1110341	Price	-	-
21/32	7-1/8	-	-	AC52042	Price	PT1110342	Price	AC45042	Price
43/64	7-5/8	-	-	-	-	PT1110343	Price	-	-
11/16	7-5/8	-	-	AC52044	Price	PT1110344	Price	-	

† Sizes not split point

Heavy Duty Jobber Drills

Cobalt • 135° Split Point

- For drilling in tough, high tensile strength materials like stainless steels, titanium and inconel
- Made of heat resistant cobalt high speed steel
- Made to NAS907 Type J specifications
- Designed for high production drilling of a wide variety of materials
- Perform well under many different operating conditions
- Morse List #2340
- Precision Twist List #R18CO

		Morse Cutting Tools		Rapidkut		Precision Twist Drill		ProCut	
Size	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1	3-7/8	MT1117172	Price	AC52101	Price	PT1118301	Price	AC45101	Price
2	3-7/8	MT1117171	Price	AC52102	Price	PT1118302	Price	AC45102	Price
3	3-3/4	MT1117169	Price	AC52103	Price	PT1118303	Price	AC45103	Price
4	3-3/4	MT1117168	Price	AC52104	Price	PT1118304	Price	AC45104	Price
5	3-3/4	MT1117167	Price	AC52105	Price	PT1118305	Price	AC45105	Price
6	3-3/4	MT1117166	Price	AC52106	Price	PT1118306	Price	AC45106	Price
7	3-5/8	MT1117164	Price	AC52107	Price	PT1118307	Price	AC45107	Price
8	3-5/8	MT1117163	Price	AC52108	Price	PT1118308	Price	AC45108	Price
9	3-5/8	MT1117162	Price	AC52109	Price	PT1118309	Price	AC45109	Price
10	3-5/8	MT1117161	Price	AC52110	Price	PT1118310	Price	AC45110	Price
11	3-1/2	MT1117160	Price	AC52111	Price	PT1118311	Price	AC45111	Price
12	3-1/2	MT1117159	Price	AC52112	Price	PT1118312	Price	AC45112	Price
13	3-1/2	MT1117157	Price	AC52113	Price	PT1118313	Price	AC45113	Price
14	3-3/8	MT1117156	Price	AC52114	Price	PT1118314	Price	AC45114	Price
15	3-3/8	MT1117155	Price	AC52115	Price	PT1118315	Price	AC45115	Price
16	3-3/8	MT1117154	Price	AC52116	Price	PT1118316	Price	AC45116	Price
17	3-3/8	MT1117153	Price	AC52117	Price	PT1118317	Price	AC45117	Price
18	3-1/4	MT1117151	Price	AC52118	Price	PT1118318	Price	AC45118	Price
19	3-1/4	MT1117150	Price	AC52119	Price	PT1118319	Price	AC45119	Price
20	3-1/4	MT1117149	Price	AC52120	Price	PT1118320	Price	AC45120	Price
21	3-1/4	MT1117148	Price	AC52121	Price	PT1118321	Price	AC45121	Price
22	3-1/8	MT1117147	Price	AC52122	Price	PT1118322	Price	AC45122	Price
23	3-1/8	MT1117145	Price	AC52123	Price	PT1118323	Price	AC45123	Price
24	3-1/8	MT1117144	Price	AC52124	Price	PT1118324	Price	AC45124	Price
25	3	MT1117143	Price	AC52125	Price	PT1118325	Price	AC45125	Price
26	3	MT1117142	Price	AC52126	Price	PT1118326	Price	AC45126	Price
27	3	MT1117141	Price	AC52127	Price	PT1118327	Price	AC45127	Price
28	2-7/8	MT1117139	Price	AC52128	Price	PT1118328	Price	AC45128	Price
29	2-7/8	MT1117138	Price	AC52129	Price	PT1118329	Price	AC45129	Price
30	2-3/4	MT1117137	Price	AC52130	Price	PT1118330	Price	AC45130	Price
31	2-3/4	MT1117135	Price	AC52131	Price	PT1118331	Price	AC45131	Price
32	2-3/4	MT1117134	Price	AC52132	Price	PT1118332	Price	AC45132	Price
33	2-5/8	MT1117133	Price	AC52133	Price	PT1118333	Price	AC45133	Price
34	2-5/8	MT1117132	Price	AC52134	Price	PT1118334	Price	AC45134	Price
35	2-5/8	MT1117131	Price	AC52135	Price	PT1118335	Price	AC45135	Price
36	2-1/2	MT1117129	Price	AC52136	Price	PT1118336	Price	AC45136	Price
37	2-1/2	MT1117128	Price	AC52137	Price	PT1118337	Price	AC45137	Price
38	2-1/2	MT1117127	Price	AC52138	Price	PT1118338	Price	AC45138	Price
39	2-3/8	MT1117126	Price	AC52139	Price	PT1118339	Price	AC45139	Price
40	2-3/8	MT1117125	Price	AC52140	Price	PT1118340	Price	AC45140	Price
41	2-3/8	MT1117124	Price	AC52141	Price	PT1118341	Price	AC45141	Price
42	2-1/4	MT1117122	Price	AC52142	Price	PT1118342	Price	AC45142	Price
43	2-1/4	MT1117121	Price	AC52143	Price	PT1118343	Price	AC45143	Price
44	2-1/8	MT1117120	Price	AC52144	Price	PT1118344	Price	AC45144	Price
45	2-1/8	MT1117119	Price	AC52145	Price	PT1118345	Price	AC45145	Price
46	2-1/8	MT1117118	Price	AC52146	Price	PT1118346	Price	AC45146	Price
47	2	MT1117117	Price	AC52147	Price	PT1118347	Price	AC45147	Price
48	2	MT1117115	Price	AC52148	Price	PT1118348	Price	AC45148	Price
49	2	MT1117114	Price	AC52149	Price	PT1118349	Price	AC45149	Price
50	2	MT1117113	Price	AC52150	Price	PT1118350	Price	AC45150	Price
51	2	MT1117112	Price	AC52151	Price	PT1118351	Price	AC45151	Price
52	1-7/8	MT1117111	Price	AC52152	Price	PT1118352	Price	AC45152	Price
53	1-7/8	MT1117109†	Price	AC52153†	Price	PT1118353†	Price	AC45153†	Price
54	1-7/8	MT1117108†	Price	AC52154†	Price	PT1118354†	Price	AC45154†	Price
55	1-7/8	MT1117107†	Price	AC52155†	Price	PT1118355†	Price	AC45155†	Price
56	1-3/4	MT1117105†	Price	AC52156†	Price	PT1118356†	Price	AC45156†	Price
57	1-3/4	MT1117104†	Price	AC52157†	Price	PT1118357†	Price	AC45157†	Price
58	1-5/8	MT1117103†	Price	AC52158†	Price	PT1118358†	Price	AC45158†	Price
59	1-5/8	MT1117102†	Price	AC52159†	Price	PT1118359†	Price	AC45159†	Price
60	1-5/8	MT1117101†	Price	AC52160†	Price	PT1118360†	Price	AC45160†	Price
61	1-5/8	-	-	AC52161†	Price	PT1118361†	Price	-	-
62	1-1/2	-	-	AC52162†	Price	PT1118362†	Price	-	-
63	1-1/2	-	-	AC52163†	Price	PT1118363†	Price	-	-
64	1-1/2	-	-	AC52164†	Price	PT1118364†	Price	-	-
65	1-1/2	-	-	AC52165†	Price	PT1118365†	Price	-	-
66	1-3/8	-	-	AC52166†	Price	PT1118366†	Price	-	-
67	1-3/8	-	-	AC52167†	Price	PT1118367†	Price	-	-
68	1-3/8	-	-	AC52168†	Price	PT1118368†	Price	-	-
69	1-3/8	-	-	AC52169†	Price	PT1118369†	Price	-	-
70	1-1/4	-	-	AC52170†	Price	PT1118370†	Price	-	-
71	1-1/4	-	-	AC52171†	Price	PT1118371†	Price	-	-
72	1-1/8	-	-	AC52172†	Price	PT1118372†	Price	-	-
73	1-1/8	-	-	AC52173†	Price	PT1118373†	Price	-	-
74	1	-	-	AC52174†	Price	PT1118374†	Price	-	-
75	1	-	-	AC52175†	Price	PT1118375†	Price	-	-
76	7/8	-	-	AC52176†	Price	PT1118376†	Price	-	-
77	7/8	-	-	AC52177†	Price	PT1118377†	Price	-	-
78	7/8	-	-	AC52178†	Price	PT1118378†	Price	-	-
79	3/4	-	-	AC52179†	Price	PT1118379†	Price	-	-
80	3/4	-	-	AC52180†	Price	PT1118380†	Price	-	-

†Sizes not split point

Heavy Duty Jobber Drills

Cobalt • 135° Split Point

- For drilling in tough, high tensile strength materials like stainless steels, titanium and inconel
- Made of heat resistant cobalt high speed steel
- Made to NAS907 Type J specifications
- Designed for high production drilling of a wide variety of materials
- Perform well under many different operating conditions
- Morse List #2332
- Precision Twist List #R15CO



HSS M GP RAPIDKUT

		Morse Cutting Tools		Price		Precision Twist Drill	
Size (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
A	3-7/8	**MT1117173**	Price	**AC52201**	Price	**PT1115301**	Price
B	4	**MT1117175**	Price	**AC52202**	Price	**PT1115302**	Price
C	4	**MT1117176**	Price	**AC52203**	Price	**PT1115303**	Price
D	4	**MT1117177**	Price	**AC52204**	Price	**PT1115304**	Price
1/4, E	4	**MT1117178**	Price	**AC52205**	Price	**PT1110316**	Price
F	4-1/8	**MT1117180**	Price	**AC52206**	Price	**PT1115306**	Price
G	4-1/8	**MT1117181**	Price	**AC52207**	Price	**PT1115307**	Price
H	4-1/8	**MT1117183**	Price	**AC52208**	Price	**PT1115308**	Price
I	4-1/8	**MT1117184**	Price	**AC52209**	Price	**PT1115309**	Price
J	4-1/8	**MT1117185**	Price	**AC52210**	Price	**PT1115310**	Price
K	4-1/4	**MT1117186**	Price	**AC52211**	Price	**PT1115311**	Price
L	4-1/4	**MT1117188**	Price	**AC52212**	Price	**PT1115312**	Price
M	4-3/8	**MT1117189**	Price	**AC52213**	Price	**PT1115313**	Price
N	4-3/8	**MT1117191**	Price	**AC52214**	Price	**PT1115314**	Price
O	4-1/2	**MT1117193**	Price	**AC52215**	Price	**PT1115315**	Price
P	4-5/8	**MT1117194**	Price	**AC52216**	Price	**PT1115316**	Price
Q	4-3/4	**MT1117196**	Price	**AC52217**	Price	**PT1115317**	Price
R	4-3/4	**MT1117197**	Price	**AC52218**	Price	**PT1115318**	Price
S	4-7/8	**MT1117199**	Price	**AC52219**	Price	**PT1115319**	Price
T	4-7/8	**MT1117200**	Price	**AC52220**	Price	**PT1115320**	Price
U	5	**MT1117202**	Price	**AC52221**	Price	**PT1115321**	Price
V	5	**MT1117204**	Price	**AC52222**	Price	**PT1115322**	Price
W	5-1/8	**MT1117205**	Price	**AC52223**	Price	**PT1115323**	Price
X	5-1/8	**MT1117207**	Price	**AC52224**	Price	**PT1115324**	Price
Y	5-1/4	**MT1117208**	Price	**AC52225**	Price	**PT1115325**	Price
Z	5-1/4	**MT1117210**	Price	**AC52226**	Price	**PT1115326**	Price

Ex-Gold® Jobber Length Drills

Cobalt • 130° Point • TiN Coated EXOCARB

- Patented drill point eliminates the need for a center drill
- Recommended for cast iron, carbon steels, alloy steels and die steels up to 20 HrC
- OSG List #1500



Size	Decimal Equiv.	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
3/32	.0938	1/8	1-1/4	2-1/2	**TP3215093805**	Price
1/8	.1250	3/16	1-5/8	3-1/16	**TP3215125005**	Price
9/64, #28	.1406	3/16	1-3/4	3-3/16	**TP3215140605**	Price
5/32	.1562	3/16	2	3-7/16	**TP3215156205**	Price
11/64	.1719	3/16	2-1/8	3-9/16	**TP3215171905**	Price
3/16	.1875	3/16	2-5/16	3-3/4	**TP3215187505**	Price
13/64	.2031	1/4	2-7/16	4-1/4	**TP3215203105**	Price
7/32	.2188	1/4	2-1/2	4-5/16	**TP3215218805**	Price
1/4, E	.2500	1/4	2-3/4	4-9/16	**TP3215250005**	Price
17/64	.2656	3/8	2-7/8	4-11/16	**TP3215265605**	Price
9/32, K	.2812	3/8	2-15/16	4-3/4	**TP3215281205**	Price
19/64	.2969	3/8	3-1/16	4-7/8	**TP3215296905**	Price
5/16	.3125	3/8	3-3/16	5	**TP3215312505**	Price
21/64	.3281	3/8	3-5/16	5-1/8	**TP3215328105**	Price
11/32	.3438	3/8	3-7/16	5-1/4	**TP3215343805**	Price
3/8	.3750	3/8	3-5/8	5-7/16	**TP3215375005**	Price
25/64	.3906	1/2	3-3/4	5-27/32	**TP3215390605**	Price
13/32	.4062	1/2	3-7/8	5-31/32	**TP3215406205**	Price
27/64	.4219	1/2	3-15/16	6-1/32	**TP3215421905**	Price
7/16	.4375	1/2	4-1/16	6-5/32	**TP3215437505**	Price
29/64	.4531	1/2	4-3/16	6-9/32	**TP3215453105**	Price
15/32	.4688	1/2	4-5/16	6-13/32	**TP3215468805**	Price
31/64	.4844	1/2	4-3/8	6-15/32	**TP3215484405**	Price
1/2	.5000	1/2	4-1/2	6-19/32	**TP3215500005**	Price
17/32	.5312	5/8	4-13/16	7-3/16	**TP3215531205**	Price
9/16	.5625	5/8	4-13/16	7-3/16	**TP3215562505**	Price
5/8	.6250	3/4	5-3/16	7-27/32	**TP3215625005**	Price
11/16	.6875	3/4	5-5/8	8-9/32	**TP3215687505**	Price
3/4	.7500	7/8	5-7/8	8-17/32	**TP3215750005**	Price

EX-SUS-GOLD® Jobber Length Drills



Vanadium High Speed Steel • TiN Coated

- Recommended for aluminum, low carbon and medium carbon steels, 300 and 400 series stainless steels
- OSG List #1600

Type - Fractional Size						
Size	Decimal Equiv.	Shank Dia. (mm)	Flute Length (mm)	OAL (mm)	Order No.	Price
3/32	.0937	3mm	30mm	62mm	**TP318597238**	Price
7/64	.1094	3mm	33mm	65mm	**TP318597278**	Price
1/8	.1252	4mm	36mm	68mm	**TP318597318**	Price
9/64	.1406	4mm	39mm	71mm	**TP318597357**	Price
5/32	.1563	4mm	43mm	75mm	**TP318597397**	Price
3/16	.1874	6mm	52mm	96mm	**TP318597476**	Price
15/64	.2343	6mm	57mm	101mm	**TP318597595**	Price
1/4, E	.2500	8mm	63mm	107mm	**TP318597635**	Price
17/64	.2657	8mm	69mm	113mm	**TP318597675**	Price
1/2	.5000	12mm	101mm	158mm	**TP3162627**	Price

Type - Letter Size						
Size	Decimal Equiv.	Shank Dia. (mm)	Flute Length (mm)	OAL (mm)	Order No.	Price
P	.3228	10mm	75mm	125mm	**TP3262582**	Price

Type - Metric Size						
Size	Decimal Equiv.	Shank Dia. (mm)	Flute Length (mm)	OAL (mm)	Order No.	Price
2mm	.0787	3mm	24mm	56mm	**TP3162520**	Price
2.04mm	.0803	3mm	24mm	56mm	**TP318597204**	Price
2.4mm	.0945	3mm	30mm	62mm	**TP3162524**	Price
2.5mm	.0984	3mm	30mm	62mm	**TP3162525**	Price
2.83mm	.1114	3mm	33mm	65mm	**TP318597283**	Price
3mm	.1181	3mm	33mm	65mm	**TP3162530**	Price
3.1mm	.1220	4mm	36mm	68mm	**TP3162531**	Price
3.2mm	.1260	4mm	36mm	68mm	**TP3162532**	Price
3.25mm	.1280	4mm	36mm	68mm	**TP318597325**	Price
3.3mm	.1299	4mm	36mm	68mm	**TP3162533**	Price
3.4mm	.1339	4mm	39mm	71mm	**TP3162534**	Price
3.7mm	.1457	4mm	39mm	71mm	**TP3162537**	Price
3.96mm	.1559	4mm	43mm	75mm	**TP318597396**	Price
4mm	.1575	4mm	43mm	75mm	**TP3162540**	Price
4.07mm	.1602	6mm	43mm	87mm	**TP318597407**	Price
4.36mm	.1717	6mm	47mm	91mm	**TP318597436**	Price
5mm	.1969	6mm	52mm	96mm	**TP3162550**	Price
5.04mm	.1984	6mm	52mm	96mm	**TP318597504**	Price
5.1mm	.2008	6mm	52mm	96mm	**TP3162551**	Price
6mm	.2362	6mm	57mm	101mm	**TP3162560**	Price
7mm	.2756	8mm	69mm	113mm	**TP3162570**	Price
7.05mm	.2776	8mm	69mm	113mm	**TP318597705**	Price
8mm	.3150	8mm	75mm	119mm	**TP3162580**	Price
9.5mm	.3740	10mm	81mm	131mm	**TP3162595**	Price
10mm	.3937	10mm	87mm	137mm	**TP3162600**	Price
12mm	.4724	12mm	101mm	158mm	**TP3162620**	Price

Type - Wire Gage Size						
Size	Decimal Equiv.	Shank Dia. (mm)	Flute Length (mm)	OAL (mm)	Order No.	Price
#30	.1283	4mm	36mm	68mm	**TP318597326**	Price
#26	.1469	4mm	39mm	71mm	**TP318597373**	Price
#25	.1496	4mm	43mm	75mm	**TP3162538**	Price
#20	.1610	6mm	43mm	87mm	**TP318597409**	Price
#16	.1772	6mm	47mm	91mm	**TP3162545**	Price

Left Hand Jobber Drills



High Speed Steel • 118° Point

- General purpose drills
- Left hand helix for screw machine applications where adjacent spindles operate alternately - left and right hand
- Procut is bright finish, Morse is surface treated
- Some sizes not listed and certain fractional sizes thru 1" are available while supplies last
- Morse List #1330L

HSS M GP PROCUT

Type - Fractional Size							
				Morse Cutting Tools		ProCut	
Size (in.)	Decimal Equiv.	Flute Length (in.)	Overall Length (in.)	Order No.	Price	Order No.	Price
1/32	.0312	1/2	1-3/8	-	-	AC53002	Price
3/64	.0469	3/4	1-3/4	-	-	AC53003	Price
1/16	.0625	7/8	1-7/8	MT1011981	Price	AC53004	Price
5/64	.0781	1	2	MT1011987	Price	AC53005	Price
3/32	.0938	1-1/4	2-1/4	MT1011994	Price	AC53006	Price
7/64	.1094	1-1/2	2-5/8	MT1012001	Price	AC53007	Price
1/8	.1250	1-5/8	2-3/4	MT1012007	Price	AC53008	Price
9/64	.1406	1-3/4	2-7/8	MT1012011	Price	AC53009	Price
5/32	.1562	2	3-1/8	MT1012017	Price	AC53010	Price
11/64	.1719	2-1/8	3-1/4	MT1012023	Price	AC53011	Price
3/16	.1875	2-5/16	3-1/2	MT1012029	Price	AC53012	Price
13/64	.2031	2-7/16	3-5/8	MT1012036	Price	AC53013	Price
7/32	.2188	2-1/2	3-3/4	MT1012041	Price	AC53014	Price
15/64	.2344	2-5/8	3-7/8	MT1012044	Price	AC53015	Price
1/4	.2500	2-3/4	4	MT1012045	Price	AC53016	Price
17/64	.2656	2-7/8	4-1/8	MT1012046	Price	AC53017	Price
9/32	.2812	2-15/16	4-1/4	MT1012047	Price	AC53018	Price
19/64	.2969	3-1/16	4-3/8	MT1012048	Price	AC53019	Price
5/16	.3125	3-3/16	4-1/2	MT1012049	Price	AC53020	Price
21/64	.3281	3-5/16	4-5/8	MT1012050	Price	AC53021	Price
11/32	.3438	3-7/16	4-3/4	MT1012051	Price	AC53022	Price
23/64	.3594	3-1/2	4-7/8	MT1012052	Price	AC53023	Price
3/8	.3750	3-5/8	5	MT1012053	Price	AC53024	Price
25/64	.3906	3-3/4	5-1/8	MT1012054	Price	AC53025	Price
13/32	.4062	3-7/8	5-1/4	MT1012055	Price	AC53026	Price
27/64	.4219	3-15/16	5-3/8	MT1012056	Price	AC53027	Price
7/16	.4375	4-1/16	5-1/2	MT1012057	Price	AC53028	Price
29/64	.4531	4-3/16	5-5/8	MT1012058	Price	AC53029	Price
15/32	.4688	4-5/16	5-3/4	MT1012059	Price	AC53030	Price
31/64	.4844	4-3/8	5-7/8	MT1012060	Price	AC53031	Price
1/2	.5000	4-1/2	6	MT1012061	Price	AC53032	Price

HSS M GP PROCUT

Type - Wire Gage Size							
				Morse Cutting Tools		ProCut	
Size (in.)	Decimal Equiv.	Flute Length (in.)	Overall Length (in.)	Order No.	Price	Order No.	Price
1	.2280	2-5/8	3-7/8	MT1112043	Price	AC53101	Price
2	.2210	2-5/8	3-7/8	MT1112042	Price	AC53102	Price
3	.2130	2-1/2	3-3/4	MT1112040	Price	AC53103	Price
4	.2090	2-1/2	3-3/4	MT1112039	Price	AC53104	Price
5	.2055	2-1/2	3-3/4	MT1112038	Price	AC53105	Price
6	.2040	2-1/2	3-3/4	MT1112037	Price	AC53106	Price
7	.2010	2-7/16	3-5/8	MT1112035	Price	AC53107	Price
8	.1990	2-7/16	3-5/8	MT1112034	Price	AC53108	Price
9	.1960	2-7/16	3-5/8	MT1112033	Price	AC53109	Price
10	.1935	2-7/16	3-5/8	MT1112032	Price	AC53110	Price
11	.1910	2-5/16	3-1/2	MT1112031	Price	AC53111	Price
12	.1890	2-5/16	3-1/2	MT1112030	Price	AC53112	Price
13	.1850	2-5/16	3-1/2	MT1112028	Price	AC53113	Price
14	.1820	2-3/16	3-3/8	MT1112027	Price	AC53114	Price
15	.1800	2-3/16	3-3/8	MT1112026	Price	AC53115	Price
16	.1770	2-3/16	3-3/8	MT1112025	Price	AC53116	Price
17	.1730	2-3/16	3-3/8	MT1112024	Price	AC53117	Price
18	.1695	2-1/8	3-1/4	MT1112022	Price	AC53118	Price
19	.1660	2-1/8	3-1/4	MT1112021	Price	AC53119	Price
20	.1610	2-1/8	3-1/4	MT1112020	Price	AC53120	Price

HSS M GP PROCUT

Type - Wire Gage Size							
				Morse Cutting Tools		ProCut	
Size (in.)	Decimal Equiv.	Flute Length (in.)	Overall Length (in.)	Order No.	Price	Order No.	Price
21	.1590	2-1/8	3-1/4	MT1112019	Price	AC53121	Price
22	.1570	2	3-1/8	MT1112018	Price	AC53122	Price
23	.1540	2	3-1/8	MT1112016	Price	AC53123	Price
24	.1520	2	3-1/8	MT1112015	Price	AC53124	Price
25	.1495	1-7/8	3	MT1112014	Price	AC53125	Price
26	.1470	1-7/8	3	MT1112013	Price	AC53126	Price
27	.1440	1-7/8	3	MT1112012	Price	AC53127	Price
28	.1405	1-3/4	2-7/8	MT1112010	Price	AC53128	Price
29	.1360	1-3/4	2-7/8	MT1112009	Price	AC53129	Price
30	.1285	1-5/8	2-3/4	MT1112008	Price	AC53130	Price
31	.1200	1-5/8	2-3/4	MT1112006	Price	AC53131	Price
32	.1160	1-5/8	2-3/4	MT1112005	Price	AC53132	Price
33	.1130	1-1/2	2-5/8	MT1112004	Price	AC53133	Price
34	.1110	1-1/2	2-5/8	MT1112003	Price	AC53134	Price
35	.1100	1-1/2	2-5/8	MT1112002	Price	AC53135	Price
36	.1065	1-7/16	2-1/2	MT1112000	Price	AC53136	Price
37	.1040	1-7/16	2-1/2	MT1111999	Price	AC53137	Price
38	.1015	1-7/16	2-1/2	MT1111998	Price	AC53138	Price
39	.0995	1-3/8	2-3/8	MT1111997	Price	AC53139	Price
40	.0980	1-3/8	2-3/8	MT1111996	Price	AC53140	Price
41	.0960	1-3/8	2-3/8	MT1111995	Price	AC53141	Price
42	.0935	1-1/4	2-1/4	MT1111993	Price	AC53142	Price
43	.0890	1-1/4	2-1/4	MT1111992	Price	AC53143	Price
44	.0860	1-1/8	2-1/8	MT1111991	Price	AC53144	Price
45	.0820	1-1/8	2-1/8	MT1111990	Price	AC53145	Price
46	.0810	1-1/8	2-1/8	MT1111989	Price	AC53146	Price
47	.0785	1	2	MT1111988	Price	AC53147	Price
48	.0760	1	2	MT1111986	Price	AC53148	Price
49	.0730	1	2	MT1111985	Price	AC53149	Price
50	.0700	1	2	MT1111984	Price	AC53150	Price
51	.0670	1	2	MT1111983	Price	AC53151	Price
52	.0635	7/8	1-7/8	MT1111982	Price	AC53152	Price
53	.0595	7/8	1-7/8	-	-	AC53153	Price
55	.0520	7/8	1-7/8	-	-	AC53155	Price
56	.0465	3/4	1-3/4	-	-	AC53156	Price
57	.0430	3/4	1-3/4	-	-	AC53157	Price
58	.0420	11/16	1-5/8	-	-	AC53158	Price
59	.0410	11/16	1-5/8	-	-	AC53159	Price
60	.0400	11/16	1-5/8	-	-	AC53160	Price
62	.0380	5/8	1-1/2	-	-	AC53162	Price
63	.0370	5/8	1-1/2	-	-	AC53163	Price
64	.0360	5/8	1-1/2	-	-	AC53164	Price
65	.0350	5/8	1-1/2	-	-	AC53165	Price
66	.0330	1/2	1-3/8	-	-	AC53166	Price
67	.0320	1/2	1-3/8	-	-	AC53167	Price
68	.0310	1/2	1-3/8	-	-	AC53168	Price
77	.0180	3/16	7/8	-	-	AC53177	Price
79	.0145	1/8	3/4	-	-	AC53179	Price
80	.0135	1/8	3/4	-	-	AC53180	Price

HSS M GP Left Hand Jobber Drill Set



High Speed Steel • 118° Point

- Complete with index
- Drills ground from solid
- Morse List #8020

No. of Pieces	Set Range	Finish	Order No.	Price
29	1/16" - 1/2" by 64ths	Bright Finish-LH	MT1218005	Price

Screw Machine Drills



High Speed Steel • 118° Standard Point • Bright Finish

- Developed primarily for use in screw machines
- The short length of these drills offers increased rigidity for strength, in machine and portable uses
- Morse List #1435
- Precision Twist List #R40

				Morse Cutting Tools		Rapidkut		Precision Twist Drill		Procut	
Size (in.)	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
3/64	.0469	1/2	1-3/8	-	-	-	-	PT1640003	Price	AE80003	Price
1/16	.0625	5/8	1-5/8	MT1415110	Price	AE50004	Price	PT1640004	Price	AE80004	Price
5/64	.0781	11/16	1-11/16	MT1415116	Price	AE50005	Price	PT1640005	Price	AE80005	Price
3/32	.0938	3/4	1-3/4	MT1415123	Price	AE50006	Price	PT1640006	Price	AE80006	Price
7/64	.1094	13/16	1-13/16	MT1415130	Price	AE50007	Price	PT1640007	Price	AE80007	Price
1/8	.1250	7/8	1-7/8	MT1415136	Price	AE50008	Price	PT1640008	Price	AE80008	Price
9/64	.1406	15/16	1-15/16	MT1415140	Price	AE50009	Price	PT1640009	Price	AE80009	Price
5/32	.1562	1	2-1/16	MT1415146	Price	AE50010	Price	PT1640010	Price	AE80010	Price
11/64	.1719	1-1/16	2-1/8	MT1415152	Price	AE50011	Price	PT1640011	Price	AE80011	Price
3/16	.1875	1-1/8	2-3/16	MT1415158	Price	AE50012	Price	PT1640012	Price	AE80012	Price
13/64	.2031	1-3/16	2-1/4	MT1415165	Price	AE50013	Price	PT1640013	Price	AE80013	Price
7/32	.2188	1-1/4	2-3/8	MT1415170	Price	AE50014	Price	PT1640014	Price	AE80014	Price
15/64	.2344	1-5/16	2-7/16	MT1415174	Price	AE50015	Price	PT1640015	Price	AE80015	Price
1/4	.2500	1-3/8	2-1/2	MT1415178	Price	AE50016	Price	PT1640016	Price	AE80016	Price
17/64	.2656	1-7/16	2-5/8	MT1415182	Price	AE50017	Price	PT1640017	Price	-	-
9/32	.2812	1-1/2	2-11/16	MT1415187	Price	AE50018	Price	PT1640018	Price	AE80018	Price
19/64	.2969	1-9/16	2-3/4	MT1415190	Price	AE50019	Price	PT1640019	Price	AE80019	Price
5/16	.3125	1-5/8	2-13/16	MT1415192	Price	AE50020	Price	PT1640020	Price	AE80020	Price
21/64	.3281	1-11/16	2-15/16	MT1415195	Price	AE50021	Price	PT1640021	Price	AE80021	Price
11/32	.3438	1-11/16	3	MT1415198	Price	AE50022	Price	PT1640022	Price	AE80022	Price
23/64	.3594	1-3/4	3-1/16	MT1415201	Price	AE50023	Price	PT1640023	Price	AE80023	Price
3/8	.3750	1-13/16	3-1/8	MT1415203	Price	AE50024	Price	PT1640024	Price	AE80024	Price
25/64	.3906	1-7/8	3-1/4	MT1415206	Price	AE50025	Price	PT1640025	Price	AE80025	Price
13/32	.4062	1-15/16	3-5/16	MT1415209	Price	AE50026	Price	PT1640026	Price	AE80026	Price
27/64	.4219	2	3-3/8	MT1415211	Price	AE50027	Price	PT1640027	Price	AE80027	Price
7/16	.4375	2-1/16	3-7/16	MT1415212	Price	AE50028	Price	PT1640028	Price	AE80028	Price
29/64	.4531	2-1/8	3-9/16	MT1415213	Price	AE50029	Price	PT1640029	Price	AE80029	Price
15/32	.4688	2-1/8	3-5/8	MT1415214	Price	AE50030	Price	PT1640030	Price	AE80030	Price
31/64	.4844	2-3/16	3-11/16	MT1415215	Price	AE50031	Price	PT1640031	Price	AE80031	Price
1/2	.5000	2-1/4	3-3/4	MT1415216	Price	AE50032	Price	PT1640032	Price	AE80032	Price
33/64	.5156	2-3/8	3-7/8	MT1415217	Price	AE50033	Price	PT1640033	Price	AE80033	Price
17/32	.5312	2-3/8	3-7/8	MT1415218	Price	AE50034	Price	PT1640034	Price	AE80034	Price
35/64	.5469	2-1/2	4	MT1415219	Price	AE50035	Price	PT1640035	Price	AE80035	Price
9/16	.5625	2-1/2	4	MT1415220	Price	AE50036	Price	PT1640036	Price	AE80036	Price
37/64	.5781	2-5/8	4-1/8	MT1415221	Price	AE50037	Price	PT1640037	Price	AE80037	Price
19/32	.5938	2-5/8	4-1/8	MT1415222	Price	AE50038	Price	PT1640038	Price	AE80038	Price
39/64	.6094	2-3/4	4-1/4	MT1415223	Price	AE50039	Price	PT1640039	Price	-	-
5/8	.6250	2-3/4	4-1/4	MT1415224	Price	AE50040	Price	PT1640040	Price	AE80040	Price
41/64	.6406	2-7/8	4-1/2	MT1415225	Price	AE50041	Price	PT1640041	Price	AE80041	Price
21/32	.6562	2-7/8	4-1/2	MT1415226	Price	AE50042	Price	PT1640042	Price	AE80042	Price
43/64	.6719	2-7/8	4-5/8	MT1415227	Price	AE50043	Price	PT1640043	Price	AE80043	Price
11/16	.6875	2-7/8	4-5/8	MT1415228	Price	AE50044	Price	PT1640044	Price	AE80044	Price
45/64	.7031	3	4-3/4	MT1415229	Price	AE50045	Price	PT1640545	Price	AE80045	Price
23/32	.7188	3	4-3/4	MT1415230	Price	AE50046	Price	PT1640546	Price	AE80046	Price
47/64	.7344	3-1/8	5	MT1415231	Price	AE50047	Price	PT1640547	Price	AE80047	Price
3/4	.7500	3-1/8	5	MT1415232	Price	AE50048	Price	PT1640548	Price	AE80048	Price
49/64	.7656	3-1/4	5-1/8	MT1415233	Price	AE50049	Price	PT1640549	Price	AE80049	Price
25/32	.7812	3-1/4	5-1/8	MT1415234	Price	AE50050	Price	PT1640550	Price	AE80050	Price
51/64	.7969	3-3/8	5-1/4	MT1415235	Price	AE50051	Price	PT1640551	Price	AE80051	Price
13/16	.8125	3-3/8	5-1/4	MT1415236	Price	AE50052	Price	PT1640552	Price	AE80052	Price
53/64	.8281	3-1/2	5-3/8	MT1415237	Price	AE50053	Price	PT1640553	Price	AE80053	Price
27/32	.8438	3-1/2	5-3/8	MT1415238	Price	AE50054	Price	PT1640554	Price	AE80054	Price
55/64	.8594	3-1/2	5-1/2	MT1415239	Price	AE50055	Price	PT1640555	Price	AE80055	Price
7/8	.8750	3-1/2	5-1/2	MT1415240	Price	AE50056	Price	PT1640556	Price	AE80056	Price
57/64	.8906	3-5/8	5-5/8	MT1415241	Price	AE50057	Price	PT1640557	Price	AE80057	Price
29/32	.9062	3-5/8	5-5/8	MT1415242	Price	AE50058	Price	PT1640558	Price	AE80058	Price
59/64	.9219	3-3/4	5-3/4	MT1415243	Price	AE50059	Price	PT1640559	Price	AE80059	Price
15/16	.9375	3-3/4	5-3/4	MT1415244	Price	AE50060	Price	PT1640560	Price	AE80060	Price
61/64	.9531	3-7/8	5-7/8	MT1415245	Price	AE50061	Price	PT1640561	Price	AE80061	Price
31/32	.9688	3-7/8	5-7/8	MT1415246	Price	AE50062	Price	PT1640562	Price	AE80062	Price
63/64	.9844	4	6	MT1415247	Price	AE50063	Price	PT1640563	Price	AE80063	Price
1	1.0000	4	6	MT1415248	Price	AE50100	Price	PT1640600	Price	AE80100	Price
1-1/16	1.0625	4	6-1/4	MT1415249	Price	AE50104	Price	PT1640604	Price	AE80104	Price
1-1/8	1.1250	4	6-3/8	MT1415250	Price	AE50108	Price	PT1640608	Price	-	-
1-3/16	1.1875	4-1/4	6-5/8	MT1415251	Price	AE50112	Price	PT1640612	Price	AE80112	Price
1-1/4	1.2500	4-3/8	6-3/4	MT1415252	Price	AE50116	Price	PT1640616	Price	AE80116	Price
1-5/16	1.3125	4-3/8	7	MT1415253	Price	-	-	PT1640620	Price	AE80120	Price
1-3/8	1.3750	4-1/2	7-1/8	MT1415254	Price	-	-	PT1640624	Price	-	-
1-7/16	1.4375	4-3/4	7-3/8	MT1415255	Price	-	-	PT1640628	Price	-	-
1-1/2	1.5000	4-7/8	7-1/2	MT1415256	Price	-	-	PT1640632	Price	AE80132	Price
1-9/16	1.5625	4-7/8	7-3/4	MT1415257	Price	-	-	PT1640636	Price	AE80136	Price
1-5/8	1.6250	4-7/8	7-3/4	MT1415258	Price	-	-	PT1640640	Price	-	-
1-11/16	1.6875	5-1/8	8	MT1415259	Price	-	-	-	-	-	-
1-3/4	1.7500	5-1/8	8	MT1415260	Price	-	-	PT1640648	Price	-	-
1-13/16	1.8125	5-3/8	8-1/4	MT1415261	Price	-	-	PT1640652	Price	-	-
1-7/8	1.8750	5-3/8	8-1/4	MT1415262	Price	-	-	PT1640656	Price	AE80156	Price
1-15/16	1.9375	5-5/8	8-1/2	MT1415263	Price	-	-	PT1640660	Price	AE80160	Price
2	2.0000	5-5/8	8-1/2	MT1415264	Price	-	-	PT1640700	Price	AE80200	Price

29 Pc. Screw Machine Drill Set

High Speed Steel • 118° Standard Point

- Includes 1/16" thru 1/2" by 64ths
- Drills ground from solid
- Bright finish

Brand	Order No.	Price
Morse Cutting Tools	MT1218177	Price
Precision Twist Drill	PT2790170	Price
Rapidkut	AP50S70H	Price



Screw Machine Drills
High Speed Steel • 118° Standard Point • Bright Finish

- Developed primarily for use in screw machines
- The short length of these drills offers increased rigidity for strength-in machine and portable uses
- Morse List#1437 (wire gauge) - 1436 (letter sizes)
- Precision Twist List #R41 (wire gauge) - R42 (letter sizes)



60 Pc. Screw Machine Drill Sets
#1-60 Wire Gage
• 118° Standard Point
• High Speed Steel



Brand	Order No.	Price
Precision Twist Drill	**PT2790174**	Price
Rapidkut	**AP50S71H**	Price

				Morse Cutting Tools		Rapidkut		Precision Twist Drill		Procut	
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1	.2280	1-5/16	2-7/16	**MT1415172**	Price	**AE51101**	Price	**PT1641001**	Price	**AE81101**	Price
2	.2210	1-5/16	2-7/16	**MT1415171**	Price	**AE51102**	Price	**PT1641002**	Price	**AE81102**	Price
3	.2130	1-1/4	2-3/8	**MT1415169**	Price	**AE51103**	Price	**PT1641003**	Price	**AE81103**	Price
4	.2090	1-1/4	2-3/8	**MT1415168**	Price	**AE51104**	Price	**PT1641004**	Price	**AE81104**	Price
5	.2055	1-1/4	2-3/8	**MT1415167**	Price	**AE51105**	Price	**PT1641005**	Price	**AE81105**	Price
6	.2040	1-1/4	2-3/8	**MT1415166**	Price	**AE51106**	Price	**PT1641006**	Price	**AE81106**	Price
7	.2010	1-3/16	2-1/4	**MT1415164**	Price	**AE51107**	Price	**PT1641007**	Price	**AE81107**	Price
8	.1990	1-3/16	2-1/4	**MT1415163**	Price	**AE51108**	Price	**PT1641008**	Price	**AE81108**	Price
9	.1960	1-3/16	2-1/4	**MT1415162**	Price	**AE51109**	Price	**PT1641009**	Price	**AE81109**	Price
10	.1935	1-3/16	2-1/4	**MT1415161**	Price	**AE51110**	Price	**PT1641010**	Price	**AE81110**	Price
11	.1910	1-3/16	2-1/4	**MT1415160**	Price	**AE51111**	Price	**PT1641011**	Price	**AE81111**	Price
12	.1890	1-3/16	2-1/4	**MT1415159**	Price	**AE51112**	Price	**PT1641012**	Price	**AE81112**	Price
13	.1850	1-1/8	2-3/16	**MT1415157**	Price	**AE51113**	Price	**PT1641013**	Price	**AE81113**	Price
14	.1820	1-1/8	2-3/16	**MT1415156**	Price	**AE51114**	Price	**PT1641014**	Price	**AE81114**	Price
15	.1800	1-1/8	2-3/16	**MT1415155**	Price	**AE51115**	Price	**PT1641015**	Price	**AE81115**	Price
16	.1770	1-1/8	2-3/16	**MT1415154**	Price	**AE51116**	Price	**PT1641016**	Price	**AE81116**	Price
17	.1730	1-1/8	2-3/16	**MT1415153**	Price	**AE51117**	Price	**PT1641017**	Price	**AE81117**	Price
18	.1695	1-1/16	2-1/8	**MT1415151**	Price	**AE51118**	Price	**PT1641018**	Price	**AE81118**	Price
19	.1660	1-1/16	2-1/8	**MT1415150**	Price	**AE51119**	Price	**PT1641019**	Price	**AE81119**	Price
20	.1610	1-1/16	2-1/8	**MT1415149**	Price	**AE51120**	Price	**PT1641020**	Price	**AE81120**	Price
21	.1590	1-1/16	2-1/8	**MT1415148**	Price	**AE51121**	Price	**PT1641021**	Price	**AE81121**	Price
22	.1570	1-1/16	2-1/8	**MT1415147**	Price	**AE51122**	Price	**PT1641022**	Price	**AE81122**	Price
23	.1540	1	2-1/16	**MT1415145**	Price	**AE51123**	Price	**PT1641023**	Price	**AE81123**	Price
24	.1520	1	2-1/16	**MT1415144**	Price	**AE51124**	Price	**PT1641024**	Price	**-**	-
25	.1495	1	2-1/16	**MT1415143**	Price	**AE51125**	Price	**PT1641025**	Price	**AE81125**	Price
26	.1470	1	2-1/16	**MT1415142**	Price	**AE51126**	Price	**PT1641026**	Price	**AE81126**	Price
27	.1440	1	2-1/16	**MT1415141**	Price	**AE51127**	Price	**PT1641027**	Price	**AE81127**	Price
28	.1405	15/16	1-15/16	**MT1415139**	Price	**AE51128**	Price	**PT1641028**	Price	**AE81128**	Price
29	.1360	15/16	1-15/16	**MT1415138**	Price	**AE51129**	Price	**PT1641029**	Price	**AE81129**	Price
30	.1285	15/16	1-15/16	**MT1415137**	Price	**AE51130**	Price	**PT1641030**	Price	**AE81130**	Price
31	.1200	7/8	1-7/8	**MT1415135**	Price	**AE51131**	Price	**PT1641031**	Price	**AE81131**	Price
32	.1160	7/8	1-7/8	**MT1415134**	Price	**AE51132**	Price	**PT1641032**	Price	**AE81132**	Price
33	.1130	7/8	1-7/8	**MT1415133**	Price	**AE51133**	Price	**PT1641033**	Price	**AE81133**	Price
34	.1110	7/8	1-7/8	**MT1415132**	Price	**AE51134**	Price	**PT1641034**	Price	**AE81134**	Price
35	.1100	7/8	1-7/8	**MT1415131**	Price	**AE51135**	Price	**PT1641035**	Price	**AE81135**	Price
36	.1065	13/16	1-13/16	**MT1415129**	Price	**AE51136**	Price	**PT1641036**	Price	**AE81136**	Price
37	.1040	13/16	1-13/16	**MT1415128**	Price	**AE51137**	Price	**PT1641037**	Price	**AE81137**	Price
38	.1015	13/16	1-13/16	**MT1415127**	Price	**AE51138**	Price	**PT1641038**	Price	**AE81138**	Price
39	.0995	13/16	1-13/16	**MT1415126**	Price	**AE51139**	Price	**PT1641039**	Price	**AE81139**	Price
40	.0980	13/16	1-13/16	**MT1415125**	Price	**AE51140**	Price	**PT1641040**	Price	**AE81140**	Price
41	.0960	13/16	1-13/16	**MT1415124**	Price	**AE51141**	Price	**PT1641041**	Price	**AE81141**	Price
42	.0935	3/4	1-3/4	**MT1415122**	Price	**AE51142**	Price	**PT1641042**	Price	**AE81142**	Price
43	.0890	3/4	1-3/4	**MT1415121**	Price	**AE51143**	Price	**PT1641043**	Price	**AE81143**	Price
44	.0860	3/4	1-3/4	**MT1415120**	Price	**AE51144**	Price	**PT1641044**	Price	**AE81144**	Price
45	.0820	3/4	1-3/4	**MT1415119**	Price	**AE51145**	Price	**PT1641045**	Price	**AE81145**	Price
46	.0810	3/4	1-3/4	**MT1415118**	Price	**AE51146**	Price	**PT1641046**	Price	**AE81146**	Price
47	.0785	11/16	1-11/16	**MT1415117**	Price	**AE51147**	Price	**PT1641047**	Price	**AE81147**	Price
48	.0760	11/16	1-11/16	**MT1415115**	Price	**AE51148**	Price	**PT1641048**	Price	**AE81148**	Price
49	.0730	11/16	1-11/16	**MT1415114**	Price	**AE51149**	Price	**PT1641049**	Price	**AE81149**	Price
50	.0700	11/16	1-11/16	**MT1415113**	Price	**AE51150**	Price	**PT1641050**	Price	**AE81150**	Price
51	.0670	11/16	1-11/16	**MT1415112**	Price	**AE51151**	Price	**PT1641051**	Price	**AE81151**	Price
52	.0635	11/16	1-11/16	**MT1415111**	Price	**AE51152**	Price	**PT1641052**	Price	**AE81152**	Price
53	.0595	5/8	1-5/8	**MT1415109**	Price	**AE51153**	Price	**PT1641053**	Price	**AE81153**	Price
54	.0550	5/8	1-5/8	**MT1415108**	Price	**AE51154**	Price	**PT1641054**	Price	**AE81154**	Price
55	.0520	5/8	1-5/8	**MT1415107**	Price	**AE51155**	Price	**PT1641055**	Price	**AE81155**	Price
56	.0465	1/2	1-3/8	**MT1415105**	Price	**AE51156**	Price	**PT1641056**	Price	**AE81156**	Price
57	.0430	1/2	1-3/8	**MT1415104**	Price	**AE51157**	Price	**PT1641057**	Price	**AE81157**	Price
58	.0420	1/2	1-3/8	**MT1415103**	Price	**AE51158**	Price	**PT1641058**	Price	**AE81158**	Price
59	.0410	1/2	1-3/8	**MT1415102**	Price	**AE51159**	Price	**PT1641059**	Price	**AE81159**	Price
60	.0400	1/2	1-3/8	**MT1415101**	Price	**AE51160**	Price	**PT1641060**	Price	**AE81160**	Price

26 Pc. Screw Machine Drill Sets
A-Z Letter Sizes
• 118° Standard Point
• High Speed Steel



Brand	Order No.	Price
Precision Twist Drill	**PT2790173**	Price
Rapidkut	**AP50S72H**	Price

				Morse Cutting Tools		Rapidkut		Precision Twist Drill		ProCut	
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
A	.2340	1-5/16	2-7/16	**MT1415173**	Price	**AE51201**	Price	**PT1642001**	Price	**AE81201**	Price
B	.2380	1-3/8	2-1/2	**MT1415175**	Price	**AE51202**	Price	**PT1642002**	Price	**-**	-
C	.2420	1-3/8	2-1/2	**MT1415176**	Price	**AE51203**	Price	**PT1642003**	Price	**AE81203**	Price
D	.2460	1-3/8	2-1/2	**MT1415177**	Price	**AE51204**	Price	**PT1642004**	Price	**AE81204**	Price
1/4, E	.2500	1-3/8	2-1/2	**MT1415178**	Price	**AE51205**	Price	**PT1640016**	Price	**-**	-
F	.2570	1-7/16	2-5/8	**MT1415180**	Price	**AE51206**	Price	**PT1642006**	Price	**AE81206**	Price
G	.2610	1-7/16	2-5/8	**MT1415181**	Price	**AE51207**	Price	**PT1642007**	Price	**AE81207**	Price
H	.2660	1-1/2	2-11/16	**MT1415183**	Price	**AE51208**	Price	**PT1642008**	Price	**AE81208**	Price
I	.2720	1-1/2	2-11/16	**MT1415184**	Price	**AE51209**	Price	**PT1642009**	Price	**AE81209**	Price
J	.2770	1-1/2	2-11/16	**MT1415185**	Price	**AE51210**	Price	**PT1642010**	Price	**AE81210**	Price
K	.2810	1-1/2	2-11/16	**MT1415186**	Price	**AE51211**	Price	**PT1642011**	Price	**AE81211**	Price
L	.2900	1-9/16	2-3/4	**MT1415188**	Price	**AE51212**	Price	**PT1642012**	Price	**AE81212**	Price
M	.2950	1-9/16	2-3/4	**MT1415189**	Price	**AE51213**	Price	**PT1642013**	Price	**AE81213**	Price
N	.3020	1-5/8	2-13/16	**MT1415191**	Price	**AE51214**	Price	**PT1642014**	Price	**AE81214**	Price
O	.3160	1-11/16	2-15/16	**MT1415193**	Price	**AE51215**	Price	**PT1642015**	Price	**AE81215**	Price
P	.3230	1-11/16	2-15/16	**MT1415194**	Price	**AE51216**	Price	**PT1642016**	Price	**AE81216**	Price
Q	.3320	1-11/16	3	**MT1415196**	Price	**AE51217**	Price	**PT1642017**	Price	**AE81217**	Price
R	.3390	1-11/16	3	**MT1415197**	Price	**AE51218**	Price	**PT1642018**	Price	**AE81218**	Price
S	.3480	1-3/4	3-1/16	**MT1415199**	Price	**AE51219**	Price	**PT1642019**	Price	**AE81219**	Price
T	.3580	1-3/4	3-1/16	**MT1415200**	Price	**AE51220**	Price	**PT1642020**	Price	**AE81220**	Price
U	.3680	1-13/16	3-1/8	**MT1415202**	Price	**AE51221**	Price	**PT1642021**	Price	**AE81221**	Price
V	.3770	1-7/8	3-1/4	**MT1415204**	Price	**AE51222**	Price	**PT1642022**	Price	**AE81222**	Price
W	.3860	1-7/8	3-1/4	**MT1415205**	Price	**AE51223**	Price	**PT1642023**	Price	**AE81223**	Price
X	.3970	1-15/16	3-5/16	**MT1415207**	Price	**AE51224**	Price	**PT1642024**	Price	**AE81224**	Price
Y	.4040	1-15/16	3-5/16	**MT1415208**	Price	**AE51225**	Price	**PT1642025**	Price	**AE81225**	Price
Z	.4130	2	3-3/8	**MT1415210**	Price	**AE51226**	Price	**PT1642026**	Price	**AE81226**	Price

Screw Machine Drills



High Speed Steel • 135° Split Point • Surface Treated

- Manufactured to NAS 907 Type C Aircraft specifications
- Ideal for medium duty portable or machine drilling in low alloys and stainless steels
- Morse List #1398
- Precision Twist List #R40C

				Morse Cutting Tools		Rapidkut		Precision Twist Drill		Procut	
Size (in.)	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
3/64	.0469	1/2	1-3/8	**MT1414901**	Price	**AE70003**	Price	-	-	-	-
1/16	.0625	5/8	1-5/8	**MT1414902**	Price	**AE70004**	Price	**PT1740804**	Price	**AE85004**	Price
5/64	.0781	11/16	1-11/16	**MT1414903**	Price	**AE70005**	Price	**PT1740805**	Price	**AE85005**	Price
3/32	.0938	3/4	1-3/4	**MT1414904**	Price	**AE70006**	Price	**PT1740806**	Price	**AE85006**	Price
7/64	.1094	13/16	1-13/16	**MT1414910**	Price	**AE70007**	Price	**PT1740807**	Price	**AE85007**	Price
1/8	.1250	7/8	1-7/8	**MT1414916**	Price	**AE70008**	Price	**PT1740808**	Price	**AE85008**	Price
9/64	.1406	15/16	1-15/16	**MT1414920**	Price	**AE70009**	Price	**PT1740809**	Price	**AE85009**	Price
5/32	.1562	1	2-1/16	**MT1414926**	Price	**AE70010**	Price	**PT1740810**	Price	**AE85010**	Price
11/64	.1719	1-1/16	2-1/8	**MT1414932**	Price	**AE70011**	Price	**PT1740811**	Price	**AE85011**	Price
3/16	.1875	1-1/8	2-3/16	**MT1414938**	Price	**AE70012**	Price	**PT1740812**	Price	**AE85012**	Price
13/64	.2031	1-3/16	2-1/4	**MT1414945**	Price	**AE70013**	Price	**PT1740813**	Price	**AE85013**	Price
7/32	.2188	1-1/4	2-3/8	**MT1414950**	Price	**AE70014**	Price	**PT1740814**	Price	**AE85014**	Price
15/64	.2334	1-5/16	2-7/16	**MT1414954**	Price	**AE70015**	Price	**PT1740815**	Price	**AE85015**	Price
1/4, E	.2500	1-3/8	2-1/2	**MT1414958**	Price	**AE70016**	Price	**PT1740816**	Price	**AE85016**	Price
17/64	.2656	1-7/16	2-5/8	**MT1414963**	Price	**AE70017**	Price	**PT1740817**	Price	**AE85017**	Price
9/32	.2812	1-1/2	2-11/16	**MT1414968**	Price	**AE70018**	Price	**PT1740818**	Price	**AE85018**	Price
19/64	.2969	1-9/16	2-3/4	**MT1414971**	Price	**AE70019**	Price	**PT1740819**	Price	**AE85019**	Price
5/16	.3125	1-5/8	2-13/16	**MT1414973**	Price	**AE70020**	Price	**PT1740820**	Price	**AE85020**	Price
21/64	.3281	1-11/16	2-15/16	**MT1414976**	Price	**AE70021**	Price	**PT1740821**	Price	**AE85021**	Price
11/32	.3438	1-11/16	3	**MT1414979**	Price	**AE70022**	Price	**PT1740822**	Price	**AE85022**	Price
23/64	.3594	1-3/4	3-1/16	**MT1414982**	Price	**AE70023**	Price	**PT1740823**	Price	**AE85023**	Price
3/8	.3750	1-13/16	3-1/8	**MT1414984**	Price	**AE70024**	Price	**PT1740824**	Price	**AE85024**	Price
25/64	.3906	1-7/8	3-1/4	**MT1414987**	Price	**AE70025**	Price	**PT1740825**	Price	**AE85025**	Price
13/32	.4062	1-15/16	3-5/16	**MT1414990**	Price	**AE70026**	Price	**PT1740826**	Price	**AE85026**	Price
27/64	.4219	2	3-3/8	**MT1414992**	Price	**AE70027**	Price	**PT1740827**	Price	**AE85027**	Price
7/16	.4375	2-1/16	3-7/16	**MT1414993**	Price	**AE70028**	Price	**PT1740828**	Price	**AE85028**	Price
29/64	.4531	2-1/8	3-9/16	**MT1414994**	Price	**AE70029**	Price	**PT1740829**	Price	**AE85029**	Price
15/32	.4688	2-1/8	3-5/8	**MT1414995**	Price	**AE70030**	Price	**PT1740830**	Price	**AE85030**	Price
31/64	.4844	2-3/16	3-11/16	**MT1414996**	Price	**AE70031**	Price	**PT1740831**	Price	**AE85031**	Price
1/2	.5000	2-1/4	3-3/4	**MT1414997**	Price	**AE70032**	Price	**PT1740832**	Price	**AE85032**	Price

Screw Machine Drills



High Speed Steel • 135° Split Point • Surface Treated

- Manufactured to NAS 907 Type C Aircraft specifications
- Ideal for medium duty portable or machine drilling in low alloys and stainless steels
- Morse List #1398
- Precision Twist List #R42C

				Morse Cutting Tools		Rapidkut		Precision Twist Drill		Procut	
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
A	.2340	1-5/16	2-7/16	**MT1414953**	Price	**AE71201**	Price	**PT1742801**	Price	**AE86201**	Price
B	.2380	1-3/8	2-1/2	**MT1414955**	Price	**AE71202**	Price	**PT1742802**	Price	**AE86202**	Price
C	.2420	1-3/8	2-1/2	**MT1414956**	Price	**AE71203**	Price	**PT1742803**	Price	**AE86203**	Price
D	.2460	1-3/8	2-1/2	**MT1414957**	Price	**AE71204**	Price	**PT1742804**	Price	**AE86204**	Price
1/4, E	.2500	1-3/8	2-1/2	**MT1414958**	Price	**AE71205**	Price	**PT1740816**	Price	-	-
F	.2570	1-7/16	2-5/8	**MT1414959**	Price	**AE71206**	Price	**PT1742806**	Price	**AE86206**	Price
G	.2610	1-7/16	2-5/8	**MT1414960**	Price	**AE71207**	Price	**PT1742807**	Price	**AE86207**	Price
H	.2660	1-1/2	2-11/16	**MT1414964**	Price	**AE71208**	Price	**PT1742808**	Price	**AE86208**	Price
I	.2720	1-1/2	2-11/16	**MT1414965**	Price	**AE71209**	Price	**PT1742809**	Price	**AE86209**	Price
J	.2770	1-1/2	2-11/16	**MT1414966**	Price	**AE71210**	Price	**PT1742810**	Price	**AE86210**	Price
K	.2810	1-1/2	2-11/16	**MT1414967**	Price	**AE71211**	Price	**PT1742811**	Price	**AE86211**	Price
L	.2900	1-9/16	2-3/4	**MT1414969**	Price	**AE71212**	Price	**PT1742812**	Price	**AE86212**	Price
M	.2950	1-9/16	2-3/4	**MT1414970**	Price	**AE71213**	Price	**PT1742813**	Price	**AE86213**	Price
N	.3020	1-5/8	2-13/16	**MT1414972**	Price	**AE71214**	Price	**PT1742814**	Price	**AE86214**	Price
O	.3160	1-11/16	2-15/16	**MT1414974**	Price	**AE71215**	Price	**PT1742815**	Price	**AE86215**	Price
P	.3230	1-11/16	2-15/16	**MT1414975**	Price	**AE71216**	Price	**PT1742816**	Price	**AE86216**	Price
Q	.3320	1-11/16	3	**MT1414977**	Price	**AE71217**	Price	**PT1742817**	Price	**AE86217**	Price
R	.3390	1-11/16	3	**MT1414978**	Price	**AE71218**	Price	**PT1742818**	Price	**AE86218**	Price
S	.3480	1-3/4	3-1/16	**MT1414980**	Price	**AE71219**	Price	**PT1742819**	Price	**AE86219**	Price
T	.3580	1-3/4	3-1/16	**MT1414981**	Price	**AE71220**	Price	**PT1742820**	Price	**AE86220**	Price
U	.3680	1-13/16	3-1/8	**MT1414983**	Price	**AE71221**	Price	**PT1742821**	Price	**AE86221**	Price
V	.3770	1-7/8	3-1/4	**MT1414985**	Price	**AE71222**	Price	**PT1742822**	Price	**AE86222**	Price
W	.3860	1-7/8	3-1/4	**MT1414986**	Price	**AE71223**	Price	**PT1742823**	Price	**AE86223**	Price
X	.3970	1-15/16	3-5/16	**MT1414988**	Price	**AE71224**	Price	**PT1742824**	Price	**AE86224**	Price
Y	.4040	1-15/16	3-5/16	**MT1414989**	Price	**AE71225**	Price	**PT1742825**	Price	**AE86225**	Price
Z	.4130	2	3-3/8	**MT1414991**	Price	**AE71226**	Price	**PT1742826**	Price	**AE86226**	Price

29 Pc. Sets 1/16"-1/2" by 64ths

135° Split Point • High Speed Steel • Surface Treated

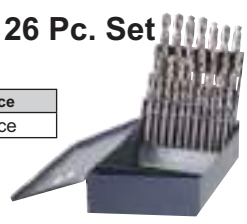
- Manufactured to NAS 907 Type C Aircraft specifications with surface treatme
- Ideal for medium duty portable or machine drilling in low alloys and stainless

Brand	Order No.	Price
RAPIDKUT	**AP50S70HDSP**	Price
	PT2799903	Price



RAPIDKUT 26 Pc. Set A-Z Letter Size

Order No.	Price
AP50S72HDSP	Price



Screw Machine Drills



High Speed Steel • 135° Split Point • Surface Treated

- Manufactured to NAS 907 Type C Aircraft specifications
- Ideal for medium duty portable or machine drilling in low alloys and stainless steels
- Morse List #1398
- Precision Twist List #R41C

				Morse Cutting Tools		Rapidkut		Precision Twist Drill		Procut	
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1	.2280	1-5/16	2-7/16	MT1414952	Price	AE71101	Price	PT1741801	Price	AE86101	Price
2	.2210	1-5/16	2-7/16	MT1414951	Price	AE71102	Price	PT1741802	Price	AE86102	Price
3	.2130	1-1/4	2-3/8	MT1414949	Price	AE71103	Price	PT1741803	Price	AE86103	Price
4	.2090	1-1/4	2-3/8	MT1414948	Price	AE71104	Price	PT1741804	Price	AE86104	Price
5	.2055	1-1/4	2-3/8	MT1414947	Price	AE71105	Price	PT1741805	Price	AE86105	Price
6	.2040	1-1/4	2-3/8	MT1414946	Price	AE71106	Price	PT1741806	Price	AE86106	Price
7	.2010	1-3/16	2-1/4	MT1414944	Price	AE71107	Price	PT1741807	Price	AE86107	Price
8	.1990	1-3/16	2-1/4	MT1414943	Price	AE71108	Price	PT1741808	Price	AE86108	Price
9	.1960	1-3/16	2-1/4	MT1414942	Price	AE71109	Price	PT1741809	Price	AE86109	Price
10	.1935	1-3/16	2-1/4	MT1414941	Price	AE71110	Price	PT1741810	Price	AE86110	Price
11	.1910	1-3/16	2-1/4	MT1414940	Price	AE71111	Price	PT1741811	Price	AE86111	Price
12	.1890	1-3/16	2-1/4	MT1414939	Price	AE71112	Price	PT1741812	Price	AE86112	Price
13	.1850	1-1/8	2-3/16	MT1414937	Price	AE71113	Price	PT1741813	Price	AE86113	Price
14	.1820	1-1/8	2-3/16	MT1414936	Price	AE71114	Price	PT1741814	Price	AE86114	Price
15	.1800	1-1/8	2-3/16	MT1414935	Price	AE71115	Price	PT1741815	Price	AE86115	Price
16	.1770	1-1/8	2-3/16	MT1414934	Price	AE71116	Price	PT1741816	Price	AE86116	Price
17	.1730	1-1/8	2-3/16	MT1414933	Price	AE71117	Price	PT1741817	Price	AE86117	Price
18	.1695	1-1/16	2-1/8	MT1414931	Price	AE71118	Price	PT1741818	Price	AE86118	Price
19	.1660	1-1/16	2-1/8	MT1414930	Price	AE71119	Price	PT1741819	Price	AE86119	Price
20	.1610	1-1/16	2-1/8	MT1414929	Price	AE71120	Price	PT1741820	Price	AE86120	Price
21	.1590	1-1/16	2-1/8	MT1414928	Price	AE71121	Price	PT1741821	Price	AE86121	Price
22	.1570	1-1/16	2-1/8	MT1414927	Price	AE71122	Price	PT1741822	Price	AE86122	Price
23	.1540	1	2-1/16	MT1414925	Price	AE71123	Price	PT1741823	Price	AE86123	Price
24	.1520	1	2-1/16	MT1414924	Price	AE71124	Price	PT1741824	Price	AE86124	Price
25	.1495	1	2-1/16	MT1414923	Price	AE71125	Price	PT1741825	Price	AE86125	Price
26	.1470	1	2-1/16	MT1414922	Price	AE71126	Price	PT1741826	Price	AE86126	Price
27	.1440	1	2-1/16	MT1414921	Price	AE71127	Price	PT1741827	Price	AE86127	Price
28	.1405	15/16	1-15/16	MT1414919	Price	AE71128	Price	PT1741828	Price	AE86128	Price
29	.1360	15/16	1-15/16	MT1414918	Price	AE71129	Price	PT1741829	Price	AE86129	Price
30	.1285	15/16	1-15/16	MT1414917	Price	AE71130	Price	PT1741830	Price	AE86130	Price
31	.1200	7/8	1-7/8	MT1414915	Price	AE71131	Price	PT1741831	Price	AE86131	Price
32	.1160	7/8	1-7/8	MT1414914	Price	AE71132	Price	PT1741832	Price	AE86132	Price
33	.1130	7/8	1-7/8	MT1414913	Price	AE71133	Price	PT1741833	Price	AE86133	Price
34	.1110	7/8	1-7/8	MT1414912	Price	AE71134	Price	PT1741834	Price	AE86134	Price
35	.1100	7/8	1-7/8	MT1414911	Price	AE71135	Price	PT1741835	Price	AE86135	Price
36	.1065	13/16	1-13/16	MT1414909	Price	AE71136	Price	PT1741836	Price	AE86136	Price
37	.1040	13/16	1-13/16	MT1414908	Price	AE71137	Price	PT1741837	Price	AE86137	Price
38	.1015	13/16	1-13/16	MT1414907	Price	AE71138	Price	PT1741838	Price	AE86138	Price
39	.0995	13/16	1-13/16	MT1414906	Price	AE71139	Price	PT1741839	Price	AE86139	Price
40	.0980	13/16	1-13/16	MT1414905	Price	AE71140	Price	PT1741840	Price	AE86140	Price
41	.0960	13/16	1-13/16	MT1414899	Price	AE71141	Price	PT1741841	Price	AE86141	Price
42	.0935	3/4	1-3/4	MT1414898	Price	AE71142	Price	PT1741842	Price	AE86142	Price
43	.0890	3/4	1-3/4	MT1414897	Price	AE71143	Price	PT1741843	Price	AE86143	Price
44	.0860	3/4	1-3/4	MT1414896	Price	AE71144	Price	PT1741844	Price	AE86144	Price
45	.0820	3/4	1-3/4	MT1414895	Price	AE71145	Price	PT1741845	Price	AE86145	Price
46	.0810	3/4	1-3/4	MT1414894	Price	AE71146	Price	PT1741846	Price	AE86146	Price
47	.0785	11/16	1-11/16	MT1414893	Price	AE71147	Price	PT1741847	Price	AE86147	Price
48	.0760	11/16	1-11/16	MT1414892	Price	AE71148	Price	PT1741848	Price	AE86148	Price
49	.0730	11/16	1-11/16	MT1414891	Price	AE71149	Price	PT1741849	Price	AE86149	Price
50	.0700	11/16	1-11/16	MT1414890	Price	AE71150	Price	PT1741850	Price	AE86150	Price
51	.0670	11/16	1-11/16	MT1414889	Price	AE71151	Price	PT1741851	Price	AE86151	Price
52	.0635	11/16	1-11/16	MT1414888	Price	AE71152	Price	PT1741852	Price	AE86152	Price
53	.0595	5/8	1-5/8	MT1414887†	Price	AE71153†	Price	PT1741853†	Price	AE86153†	Price
54	.0550	5/8	1-5/8	MT1414886†	Price	AE71154†	Price	PT1741854†	Price	AE86154†	Price
55	.0520	5/8	1-5/8	MT1414885†	Price	AE71155†	Price	PT1741855†	Price	AE86155†	Price
56	.0465	1/2	1-3/8	MT1414884†	Price	AE71156†	Price	PT1741856†	Price	AE86156†	Price
57	.0430	1/2	1-3/8	MT1414883†	Price	AE71157†	Price	PT1741857†	Price	AE86157†	Price
58	.0420	1/2	1-3/8	MT1414882†	Price	AE71158†	Price	PT1741858†	Price	AE86158†	Price
59	.0410	1/2	1-3/8	MT1414881†	Price	AE71159†	Price	PT1741859†	Price	AE86159†	Price
60	.0400	1/2	1-3/8	MT1414880†	Price	AE71160†	Price	PT1741860†	Price	AE86160†	Price

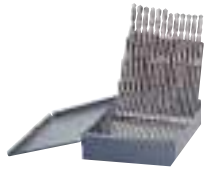
†Sizes 53 thru 60 are NOT Split Point

60 Pc. Screw Machine Drill Set

High Speed Steel • 135° Split Point • Surface Treated

- Includes #1-60 wire gage drills, index

Brand	Order No.	Price
	PT2799930	Price
RAPIDKUT	AP50S71HDSP	Price



Heavy Duty Cobalt Screw Machine Drills



Cobalt • 135° Split Point

- Effective in high alloys and work hardening materials
- Morse List #2435
- Precision Twist List #M40CO

				Morse Cutting Tools		Rapidkut		Precision Twist Drill		Price	
Size (in.)	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/16	.0625	5/8	1-5/8	MT1513157	Price	AE60004	Price	PT1840304	Price	AE65004	Price
5/64	.0781	11/16	1-11/16	MT1513163	Price	AE60005	Price	PT1840305	Price	AE65005	Price
3/32	.0938	3/4	1-3/4	MT1513170	Price	AE60006	Price	PT1840306	Price	AE65006	Price
7/64	.1094	13/16	1-13/16	MT1513177	Price	AE60007	Price	PT1840307	Price	AE65007	Price
1/8	.1250	7/8	1-7/8	MT1513183	Price	AE60008	Price	PT1840308	Price	AE65008	Price
9/64	.1406	15/16	1-15/16	MT1513187	Price	AE60009	Price	PT1840309	Price	AE65009	Price
5/32	.1562	1	2-1/16	MT1513193	Price	AE60010	Price	PT1840310	Price	AE65010	Price
11/64	.1719	1-1/16	2-1/8	MT1513199	Price	AE60011	Price	PT1840311	Price	AE65011	Price
3/16	.1875	1-1/8	2-3/16	MT1513205	Price	AE60012	Price	PT1840312	Price	AE65012	Price
13/64	.2031	1-3/16	2-1/4	MT1513212	Price	AE60013	Price	PT1840313	Price	AE65013	Price
7/32	.2188	1-1/4	2-3/8	MT1513217	Price	AE60014	Price	PT1840314	Price	AE65014	Price
15/64	.2344	1-5/16	2-7/16	MT1513221	Price	AE60015	Price	PT1840315	Price	AE65015	Price
1/4	.2500	1-3/8	2-1/2	MT1513225	Price	AE60016	Price	PT1840316	Price	AE65016	Price
17/64	.2656	1-7/16	2-5/8	MT1513228	Price	AE60017	Price	PT1840317	Price	AE65017	Price
9/32	.2812	1-1/2	2-11/16	MT1513233	Price	AE60018	Price	PT1840318	Price	AE65018	Price
19/64	.2969	1-9/16	2-3/4	MT1513236	Price	AE60019	Price	PT1840319	Price	AE65019	Price
5/16	.3125	1-5/8	2-13/16	MT1513238	Price	AE60020	Price	PT1840320	Price	AE65020	Price
21/64	.3281	1-11/16	2-15/16	MT1513241	Price	AE60021	Price	PT1840321	Price	AE65021	Price
11/32	.3438	1-11/16	3	MT1513244	Price	AE60022	Price	PT1840322	Price	AE65022	Price
23/64	.3594	1-3/4	3-1/16	MT1513247	Price	AE60023	Price	PT1840323	Price	AE65023	Price
3/8	.3750	1-13/16	3-1/8	MT1513249	Price	AE60024	Price	PT1840324	Price	AE65024	Price
25/64	.3906	1-7/8	3-1/4	MT1513252	Price	AE60025	Price	PT1840325	Price	AE65025	Price
13/32	.4062	1-15/16	3-5/16	MT1513255	Price	AE60026	Price	PT1840326	Price	AE65026	Price
27/64	.4219	2	3-3/8	MT1513257	Price	AE60027	Price	PT1840327	Price	AE65027	Price
7/16	.4375	2-1/16	3-7/16	MT1513258	Price	AE60028	Price	PT1840328	Price	AE65028	Price
29/64	.4531	2-1/8	3-9/16	MT1513259	Price	AE60029	Price	PT1840329	Price	AE65029	Price
15/32	.4688	2-1/8	3-5/8	MT1513260	Price	AE60030	Price	PT1840330	Price	AE65030	Price
31/64	.4844	2-3/16	3-11/16	MT1513261	Price	AE60031	Price	PT1840331	Price	AE65031	Price
1/2	.5000	2-1/4	3-3/4	MT1513262	Price	AE60032	Price	PT1840332	Price	AE65032	Price
33/64	.5156	2-3/8	3-7/8	-	-	-	-	PT1846033	Price	AE65033	Price
17/32	.5312	2-3/8	3-7/8	-	-	-	-	PT1846034	Price	AE65034	Price
35/64	.5469	2-1/2	4	-	-	-	-	PT1846035	Price	AE65035	Price
9/16	.5625	2-1/2	4	-	-	-	-	PT1846036	Price	AE65036	Price
37/64	.5781	2-5/8	4-1/8	-	-	-	-	PT1846037	Price	AE65037	Price
19/32	.5938	2-5/8	4-1/8	-	-	-	-	PT1846038	Price	-	-
39/64	.6094	2-3/4	4-1/4	-	-	-	-	PT1846039	Price	AE65039	Price
5/8	.6250	2-3/4	4-1/4	-	-	-	-	PT1846040	Price	AE65040	Price
41/64	.6406	2-7/8	4-1/2	-	-	-	-	PT1846041	Price	AE65041	Price
21/32	.6562	2-7/8	4-1/2	-	-	-	-	PT1846042	Price	AE65042	Price
43/64	.6719	2-7/8	4-5/8	-	-	-	-	PT1846043	Price	AE65043	Price
11/16	.6875	2-7/8	4-5/8	-	-	-	-	PT1846044	Price	AE65044	Price
45/64	.7031	3	4-3/4	-	-	-	-	-	-	AE65045	Price
45/64	.7310	3	4-3/4	-	-	-	-	PT1846045	Price	-	-
23/32	.7188	3	4-3/4	-	-	-	-	PT1846046	Price	AE65046	Price
47/64	.7344	3-1/8	5	-	-	-	-	PT1846047	Price	-	-
3/4	.7500	3-1/8	5	-	-	-	-	PT1846048	Price	AE65048	Price
25/32	.7812	3-1/4	5-1/8	-	-	-	-	-	-	AE65050	Price
51/64	.7969	3-3/8	5-1/4	-	-	-	-	-	-	AE65051	Price
13/16	.8125	3-3/8	5-1/4	-	-	-	-	-	-	AE65052	Price
53/64	.8281	3-1/2	5-3/8	-	-	-	-	-	-	AE65053	Price
27/32	.8438	3-1/2	5-3/8	-	-	-	-	-	-	AE65054	Price
7/8	.8750	3-1/2	5-1/2	-	-	-	-	-	-	AE65056	Price
29/32	.9062	3-5/8	5-5/8	-	-	-	-	-	-	AE65058	Price
59/64	.9212	3-3/4	5-3/4	-	-	-	-	-	-	AE65059	Price
15/16	.9375	3-3/4	5-3/4	-	-	-	-	-	-	AE65060	Price

****Series No. AE60 drill sizes over 1/2"** **Made in U.S.A. & England • M42 8% Cobalt**

29 Pc. Screw Machine Drill Sets

Cobalt • 135° Split Point

- Includes sizes 1/16" - 1/2" x 64ths, index

Brand	Order No.	Price
	PT2799962	Price
RAPIDKUT	AP50S70CO	Price



Screw Machine Drills

Cobalt • 135° Split Point

- Effective in high alloys and work hardening materials
- Morse List #2435
- Precision Twist List #M41CO



Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Morse Cutting Tools Order No.	Morse Cutting Tools Price	Rapidkut Order No.	Rapidkut Price	Precision Twist Drill Order No.	Precision Twist Drill Price
1	.2280	1-5/16	2-7/16	MT1513219	Price	AE61101	Price	PT1841301	Price
2	.2210	1-5/16	2-7/16	MT1513218	Price	AE61102	Price	PT1841302	Price
3	.2130	1-1/4	2-3/8	MT1513216	Price	AE61103	Price	PT1841303	Price
4	.2090	1-1/4	2-3/8	MT1513215	Price	AE61104	Price	PT1841304	Price
5	.2055	1-1/4	2-3/8	MT1513214	Price	AE61105	Price	PT1841305	Price
6	.2040	1-1/4	2-3/8	MT1513213	Price	AE61106	Price	PT1841306	Price
7	.2010	1-3/16	2-1/4	MT1513211	Price	AE61107	Price	PT1841307	Price
8	.1990	1-3/16	2-1/4	MT1513210	Price	AE61108	Price	PT1841308	Price
9	.1960	1-3/16	2-1/4	MT1513209	Price	AE61109	Price	PT1841309	Price
10	.1935	1-3/16	2-1/4	MT1513208	Price	AE61110	Price	PT1841310	Price
11	.1910	1-3/16	2-1/4	MT1513207	Price	AE61111	Price	PT1841311	Price
12	.1890	1-3/16	2-1/4	MT1513206	Price	AE61112	Price	PT1841312	Price
13	.1850	1-1/8	2-3/16	MT1513204	Price	AE61113	Price	PT1841313	Price
14	.1820	1-1/8	2-3/16	MT1513203	Price	AE61114	Price	PT1841314	Price
15	.1800	1-1/8	2-3/16	MT1513202	Price	AE61115	Price	PT1841315	Price
16	.1770	1-1/8	2-3/16	MT1513201	Price	AE61116	Price	PT1841316	Price
17	.1730	1-1/8	2-3/16	MT1513200	Price	AE61117	Price	PT1841317	Price
18	.1695	1-1/16	2-1/8	MT1513198	Price	AE61118	Price	PT1841318	Price
19	.1660	1-1/16	2-1/8	MT1513197	Price	AE61119	Price	PT1841319	Price
20	.1610	1-1/16	2-1/8	MT1513196	Price	AE61120	Price	PT1841320	Price
21	.1590	1-1/16	2-1/8	MT1513195	Price	AE61121	Price	PT1841321	Price
22	.1570	1-1/16	2-1/8	MT1513194	Price	AE61122	Price	PT1841322	Price
23	.1540	1	2-1/16	MT1513192	Price	AE61123	Price	PT1841323	Price
24	.1520	1	2-1/16	MT1513191	Price	AE61124	Price	PT1841324	Price
25	.1495	1	2-1/16	MT1513190	Price	AE61125	Price	PT1841325	Price
26	.1470	1	2-1/16	MT1513189	Price	AE61126	Price	PT1841326	Price
27	.1440	1	2-1/16	MT1513188	Price	AE61127	Price	PT1841327	Price
28	.1405	15/16	1-15/16	MT1513186	Price	AE61128	Price	PT1841328	Price
29	.1360	15/16	1-15/16	MT1513185	Price	AE61129	Price	PT1841329	Price
30	.1285	15/16	1-15/16	MT1513184	Price	AE61130	Price	PT1841330	Price
31	.1200	7/8	1-7/8	MT1513182	Price	AE61131	Price	PT1841331	Price
32	.1160	7/8	1-7/8	MT1513181	Price	AE61132	Price	PT1841332	Price
33	.1130	7/8	1-7/8	MT1513180	Price	AE61133	Price	PT1841333	Price
34	.1110	7/8	1-7/8	MT1513179	Price	AE61134	Price	PT1841334	Price
35	.1100	7/8	1-7/8	MT1513178	Price	AE61135	Price	PT1841335	Price
36	.1065	13/16	1-13/16	MT1513176	Price	AE61136	Price	PT1841336	Price
37	.1040	13/16	1-13/16	MT1513175	Price	AE61137	Price	PT1841337	Price
38	.1015	13/16	1-13/16	MT1513174	Price	AE61138	Price	PT1841338	Price
39	.0995	13/16	1-13/16	MT1513173	Price	AE61139	Price	PT1841339	Price
40	.0980	13/16	1-13/16	MT1513172	Price	AE61140	Price	PT1841340	Price
41	.0960	13/16	1-13/16	MT1513171	Price	AE61141	Price	PT1841341	Price
42	.0935	3/4	1-3/4	MT1513169	Price	AE61142	Price	PT1841342	Price
43	.0890	3/4	1-3/4	MT1513168	Price	AE61143	Price	PT1841343	Price
44	.0860	3/4	1-3/4	MT1513167	Price	AE61144	Price	PT1841344	Price
45	.0820	3/4	1-3/4	MT1513166	Price	AE61145	Price	PT1841345	Price
46	.0810	3/4	1-3/4	MT1513165	Price	AE61146	Price	PT1841346	Price
47	.0785	11/16	1-11/16	MT1513164	Price	AE61147	Price	PT1841347	Price
48	.0760	11/16	1-11/16	MT1513162	Price	AE61148	Price	PT1841348	Price
49	.0730	11/16	1-11/16	MT1513161	Price	AE61149	Price	PT1841349	Price
50	.0700	11/16	1-11/16	MT1513160	Price	AE61150	Price	PT1841350	Price
51	.0670	11/16	1-11/16	MT1513159	Price	AE61151	Price	PT1841351	Price
52	.0635	11/16	1-11/16	MT1513158	Price	AE61152	Price	PT1841352	Price
53	.0595	5/8	1-5/8	MT1513156†	Price	AE61153†	Price	PT1841353†	Price
54	.0550	5/8	1-5/8	MT1513155†	Price	AE61154†	Price	PT1841354†	Price
55	.0520	5/8	1-5/8	MT1513154†	Price	AE61155†	Price	PT1841355†	Price
56	.0465	1/2	1-3/8	MT1513153†	Price	AE61156†	Price	PT1841356†	Price
57	.0430	1/2	1-3/8	MT1513152†	Price	AE61157†	Price	PT1841357†	Price
58	.0420	1/2	1-3/8	MT1513151†	Price	AE61158†	Price	PT1841358†	Price
59	.0410	1/2	1-3/8	MT1513150†	Price	AE61159†	Price	PT1841359†	Price
60	.0400	1/2	1-3/8	MT1513149†	Price	AE61160†	Price	PT1841360†	Price

60 Pc. Screw Machine Drill Sets

Cobalt • 135° Split Point

Includes sizes #1 - 60, index



Brand	Order No.	Price
	PT2799960	Price
RAPIDKUT	AP50S71CO	Price

26 Pc. Screw Machine Drill Sets

Cobalt • 135° Split Point

- Includes letter sizes A thru Z, index



Brand	Order No.	Price
	PT2790292	Price
RAPIDKUT	AP50CAZCO	Price

Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Morse Cutting Tools Order No.	Morse Cutting Tools Price	Rapidkut Order No.	Rapidkut Price	Precision Twist Drill Order No.	Precision Twist Drill Price
A	.2340	1-5/16	2-7/16	MT1513220	Price	AE61201	Price	PT1842301	Price
B	.2380	1-3/8	2-1/2	MT1513222	Price	AE61202	Price	PT1842302	Price
C	.2420	1-3/8	2-1/2	MT1513223	Price	AE61203	Price	PT1842303	Price
D	.2460	1-3/8	2-1/2	MT1513224	Price	AE61204	Price	PT1842304	Price
1/4, E	.2500	1-3/8	2-1/2	MT1513225	Price	AE61205	Price	PT1840316	Price
F	.2570	1-7/16	2-5/8	MT1513226	Price	AE61206	Price	PT1842306	Price
G	.2610	1-7/16	2-5/8	MT1513227	Price	AE61207	Price	PT1842307	Price
H	.2660	1-1/2	2-11/16	MT1513229	Price	AE61208	Price	PT1842308	Price
I	.2720	1-1/2	2-11/16	MT1513230	Price	AE61209	Price	PT1842309	Price
J	.2770	1-1/2	2-11/16	MT1513231	Price	AE61210	Price	PT1842310	Price
K	.2810	1-1/2	2-11/16	MT1513232	Price	AE61211	Price	PT1842311	Price
L	.2900	1-9/16	2-3/4	MT1513234	Price	AE61212	Price	PT1842312	Price
M	.2950	1-9/16	2-3/4	MT1513235	Price	AE61213	Price	PT1842313	Price
N	.3020	1-5/8	2-13/16	MT1513237	Price	AE61214	Price	PT1842314	Price
O	.3160	1-11/16	2-15/16	MT1513239	Price	AE61215	Price	PT1842315	Price
P	.3230	1-11/16	2-15/16	MT1513240	Price	AE61216	Price	PT1842316	Price
Q	.3320	1-11/16	3	MT1513242	Price	AE61217	Price	PT1842317	Price
R	.3390	1-11/16	3	MT1513243	Price	AE61218	Price	PT1842318	Price
S	.3480	1-3/4	3-1/16	MT1513245	Price	AE61219	Price	PT1842319	Price
T	.3580	1-3/4	3-1/16	MT1513246	Price	AE61220	Price	PT1842320	Price
U	.3680	1-13/16	3-1/8	MT1513248	Price	AE61221	Price	PT1842321	Price
V	.3770	1-7/8	3-1/4	MT1513250	Price	AE61222	Price	PT1842322	Price
W	.3860	1-7/8	3-1/4	MT1513251	Price	AE61223	Price	PT1842323	Price
X	.3970	1-15/16	3-5/16	MT1513253	Price	AE61224	Price	PT1842324	Price
Y	.4040	1-15/16	3-5/16	MT1513254	Price	AE61225	Price	PT1842325	Price
Z	.4130	2	3-3/8	MT1513256	Price	AE61226	Price	PT1842326	Price

† Sizes 53 thru 60 are NOT Split Point.

EX-SUS GOLD® Drill



Vanadium High Speed Steel • Stub Length • TiN Coated

- Recommended for aluminum, low carbon and medium carbon steels, 300 and 400 series stainless steels
- OSG List #1100

Type - Fractional Size						
Dia.	Decimal Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/32	.0311	3mm	5mm	38mm	**TP318595079**	Price
3/64	.0469	3mm	8mm	40mm	**TP318595119**	Price
1/16	.0626	3mm	10mm	42mm	**TP318595159**	Price
5/64	.0780	3mm	12mm	44mm	**TP318595198**	Price
3/32	.0937	3mm	14mm	46mm	**TP318595238**	Price
7/64	.1094	3mm	16mm	48mm	**TP318595278**	Price
1/8	.1252	4mm	18mm	50mm	**TP318595318**	Price
9/64	.1406	4mm	20mm	52mm	**TP318595357**	Price
5/32	.1563	4mm	22mm	54mm	**TP318595397**	Price
11/64	.1720	6mm	24mm	68mm	**TP318595437**	Price
3/16	.1874	6mm	26mm	70mm	**TP318595476**	Price
13/64	.2031	6mm	26mm	70mm	**TP318595516**	Price
7/32	.2189	6mm	28mm	72mm	**TP318595556**	Price
15/64	.2343	6mm	28mm	72mm	**TP318595595**	Price
1/4, E	.2500	8mm	31mm	75mm	**TP318595635**	Price
17/64	.2657	8mm	34mm	78mm	**TP318595675**	Price
31/64	.4843	12mm	51mm	108mm	**TP3161623**	Price
1/2	.5000	12mm	51mm	108mm	**TP3161627**	Price

Type - Wire Gage Size						
Dia.	Decimal Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Price
#76	.0201	3mm	3mm	38mm	**TP318595051**	Price
#75	.0209	3mm	3mm	38mm	**TP318595053**	Price
#73	.0240	3mm	4mm	38mm	**TP318595061**	Price
#70	.0280	3mm	4.5mm	38mm	**TP318595071**	Price
#69	.0291	3mm	4.5mm	38mm	**TP318595074**	Price
#67	.0319	3mm	5mm	38mm	**TP318595081**	Price
#65	.0350	3mm	5.5mm	38mm	**TP318595089**	Price
#64	.0358	3mm	5.5mm	38mm	**TP318595091**	Price
#63	.0370	3mm	5.5mm	38mm	**TP318595094**	Price
#62	.0382	3mm	6mm	38mm	**TP318595097**	Price
#60	.0402	3mm	6mm	38mm	**TP318595102**	Price
#59	.0409	3mm	6mm	38mm	**TP318595104**	Price
#58	.0421	3mm	7mm	39mm	**TP318595107**	Price
#55	.0520	3mm	8mm	40mm	**TP318595132**	Price
#54	.0551	3mm	9mm	41mm	**TP3161514**	Price
#53	.0594	3mm	10mm	42mm	**TP318595151**	Price
#52	.0634	3mm	10mm	42mm	**TP318595161**	Price
#51	.0669	3mm	10mm	42mm	**TP3161517**	Price
#50	.0701	3mm	11mm	43mm	**TP318595178**	Price
#49	.0728	3mm	11mm	43mm	**TP318595185**	Price
#47	.0783	3mm	12mm	44mm	**TP318595199**	Price
#46	.0811	3mm	12mm	44mm	**TP318595206**	Price
#45	.0819	3mm	12mm	44mm	**TP318595208**	Price
#44	.0858	3mm	13mm	45mm	**TP318595218**	Price
#43	.0890	3mm	13mm	45mm	**TP318595226**	Price
#42	.0933	3mm	14mm	46mm	**TP318595237**	Price
#41	.0961	3mm	14mm	46mm	**TP318595244**	Price
#40	.0980	3mm	14mm	46mm	**TP318595249**	Price
#38	.1016	3mm	14mm	46mm	**TP318595258**	Price
#34	.1110	3mm	16mm	48mm	**TP318595282**	Price
#31	.1201	4mm	18mm	50mm	**TP318595305**	Price
#30	.1283	4mm	18mm	50mm	**TP318595326**	Price
#29	.1358	4mm	20mm	52mm	**TP318595345**	Price
#29	.1358	4mm	20mm	52mm	**TP318595345 11†**	Price
#25	.1496	4mm	22mm	54mm	**TP3161538**	Price
#24	.1520	4mm	22mm	54mm	**TP318595386**	Price
#19	.1661	6mm	22mm	66mm	**TP318595422**	Price
#16	.1772	6mm	24mm	68mm	**TP3161545**	Price
#13	.1850	6mm	24mm	68mm	**TP3161547**	Price
#11	.1913	6mm	26mm	70mm	**TP318595486**	Price
#7	.2012	6mm	26mm	70mm	**TP318595511**	Price
#5	.2055	6mm	26mm	70mm	**TP318595522**	Price

Type - Metric Size						
Dia.	Decimal Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Price
0.5mm	.0197	3mm	3mm	38mm	**TP3161505**	Price
0.56mm	.0220	3mm	3.5mm	38mm	**TP318595056**	Price
0.58mm	.0228	3mm	3.5mm	38mm	**TP318595058**	Price
0.6mm	.0236	3mm	3.5mm	38mm	**TP3161506**	Price
0.65mm	.0256	3mm	4mm	38mm	**TP318595065**	Price
0.7mm	.0276	3mm	4.5mm	38mm	**TP3161507**	Price
0.73mm	.0287	3mm	4.5mm	38mm	**TP318595073**	Price
0.75mm	.0295	3mm	4.5mm	38mm	**TP318595075**	Price
0.78mm	.0307	3mm	5mm	38mm	**TP318595078**	Price
0.8mm	.0315	3mm	5mm	38mm	**TP3161508**	Price

† TiALN Coated

Type - Metric Size						
Dia.	Decimal Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Price
0.83mm	.0327	3mm	5mm	38mm	**TP318595083**	Price
0.76mm	.0299	3mm	5mm	38mm	**TP318595076**	Price
0.9mm	.0354	3mm	5.5mm	38mm	**TP3161509**	Price
0.95mm	.0374	3mm	5.5mm	38mm	**TP318595095**	Price
0.96mm	.0378	3mm	6mm	38mm	**TP318595096**	Price
1mm	.0394	3mm	6mm	38mm	**TP3161510**	Price
1.01mm	.0398	3mm	6mm	38mm	**TP318595101**	Price
1.05mm	.0413	3mm	6mm	38mm	**TP318595105**	Price
1.1mm	.0433	3mm	7mm	39mm	**TP3161511**	Price
1.17mm	.0461	3mm	7mm	39mm	**TP318595117**	Price
1.2mm	.0472	3mm	8mm	40mm	**TP3161512**	Price
1.21mm	.0476	3mm	8mm	40mm	**TP318595121**	Price
1.22mm	.0480	3mm	8mm	40mm	**TP318595122**	Price
1.3mm	.0512	3mm	8mm	40mm	**TP3161513**	Price
1.35mm	.0531	3mm	9mm	41mm	**TP318595135**	Price
1.41mm	.0555	3mm	9mm	41mm	**TP318595141**	Price
1.45mm	.0571	3mm	9mm	41mm	**TP318595145**	Price
1.5mm	.0591	3mm	9mm	41mm	**TP3161515**	Price
1.52mm	.0598	3mm	10mm	42mm	**TP318595152**	Price
1.53mm	.0602	3mm	10mm	42mm	**TP318595153**	Price
1.54mm	.0606	3mm	10mm	42mm	**TP318595154**	Price
1.6mm	.0630	3mm	10mm	42mm	**TP3161516**	Price
1.62mm	.0638	3mm	10mm	42mm	**TP318595162**	Price
1.63mm	.0642	3mm	10mm	42mm	**TP318595163**	Price
1.64mm	.0646	3mm	10mm	42mm	**TP318595164**	Price
1.65mm	.0650	3mm	10mm	42mm	**TP318595165**	Price
1.75mm	.0689	3mm	11mm	43mm	**TP318595175**	Price
1.8mm	.0709	3mm	11mm	43mm	**TP3161518**	Price
1.88mm	.0740	3mm	11mm	43mm	**TP318595188**	Price
1.9mm	.0748	3mm	11mm	43mm	**TP3161519**	Price
1.95mm	.0768	3mm	12mm	44mm	**TP318595195**	Price
2mm	.0787	3mm	12mm	44mm	**TP3161520**	Price
2.02mm	.0795	3mm	12mm	44mm	**TP318595202**	Price
2.04mm	.0803	3mm	12mm	44mm	**TP318595204**	Price
2.05mm	.0807	3mm	12mm	44mm	**TP318595205**	Price
2.09mm	.0823	3mm	12mm	44mm	**TP318595209**	Price
2.1mm	.0827	3mm	12mm	44mm	**TP3161521**	Price
2.12mm	.0835	3mm	12mm	44mm	**TP318595212**	Price
2.15mm	.0846	3mm	13mm	45mm	**TP318595215**	Price
2.21mm	.0870	3mm	13mm	45mm	**TP318595221**	Price
2.3mm	.0906	3mm	13mm	45mm	**TP3161523**	Price
2.31mm	.0909	3mm	13mm	45mm	**TP318595231**	Price
2.32mm	.0913	3mm	13mm	45mm	**TP318595232**	Price
2.35mm	.0925	3mm	13mm	45mm	**TP318595235**	Price
2.4mm	.0945	3mm	14mm	46mm	**TP3161524**	Price
2.45mm	.0965	3mm	14mm	46mm	**TP318595245**	Price
2.5mm	.0984	3mm	14mm	46mm	**TP3161525**	Price
2.51mm	.0988	3mm	14mm	46mm	**TP318595251**	Price
2.54mm	.1000	3mm	14mm	46mm	**TP318595254**	Price
2.6mm	.1024	3mm	14mm	46mm	**TP3161526**	Price
2.63mm	.1035	3mm	14mm	46mm	**TP318595263**	Price
2.65mm	.1043	3mm	14mm	46mm	**TP318595265**	Price
2.8mm	.1102	3mm	16mm	48mm	**TP3161528**	Price
3mm	.1181	3mm	16mm	48mm	**TP3161530**	Price
3.1mm	.1220	4mm	18mm	50mm	**TP3161531**	Price
3.15mm	.1240	4mm	18mm	50mm	**TP318595315**	Price
3.17mm	.1248	4mm	18mm	50mm	**TP318595317**	Price
3.2mm	.1260	4mm	18mm	50mm	**TP3161532**	Price
3.21mm	.1264	4mm	18mm	50mm	**TP318595321**	Price
3.23mm	.1272	4mm	18mm	50mm	**TP318595323**	Price
3.25mm	.1280	4mm	18mm	50mm	**TP318595325**	Price
3.27mm	.1287	4mm	18mm	50mm	**TP318595327**	Price
3.3mm	.1299	4mm	18mm	50mm	**TP3161533**	Price
3.33mm	.1311	4mm	18mm	50mm	**TP318595333**	Price
3.35mm	.1319	4mm	18mm	50mm	**TP318595335**	Price
3.4mm	.1339	4mm	20mm	52mm	**TP3161534**	Price
3.5mm	.1378	4mm	20mm	52mm	**TP3161535**	Price
3.58mm	.1409	4mm	20mm	52mm	**TP318595358**	Price
3.6mm	.1417	4mm	20mm	52mm	**TP3161536**	Price
3.9mm	.1535	4mm	22mm	54mm	**TP3161539**	Price
3.95mm	.1555	4mm	22mm	54mm	**TP318595395**	Price
3.98mm	.1567	4mm	22mm	54mm	**TP318595398**	Price
4mm	.1575	4mm	22mm	54mm	**TP3161540**	Price
4.1mm	.1614	6mm	22mm	66mm	**TP3161541**	Price
4.2mm	.1654	6mm	22mm	66mm	**TP3161542**	Price
4.4mm	.1732	6mm	24mm	68mm	**TP3161544**	Price
4.44mm	.1748	6mm	24mm	68mm	**TP318595444**	Price
4.45mm	.1752	6mm	24mm	68mm	**TP318595445**	Price
4.59mm	.1807	6mm	24mm	68mm	**TP318595459**	Price
4.6mm	.1811	6mm	24mm	68mm	**TP3161546**	Price
4.65mm	.1831	6mm	24mm	68mm	**TP318595465**	Price
4.78mm	.1882	6mm	26mm	70mm	**TP318595478**	Price
4.81mm	.1894	6mm	26mm	70mm	**TP318595481**	Price
4.9mm	.1929	6mm	26mm	70mm	**TP3161549**	Price
5mm	.1969	6mm	26mm	70mm	**TP3161550**	Price
5.1mm	.2008	6mm	26mm	70mm	**TP3161551**	Price
5.25mm	.2067	6mm	26mm	70mm	**TP318595525**	Price
5.5mm	.2165	6mm	28mm	72mm	**TP3161555**	Price
5.55mm	.2185	6mm	28mm	72mm	**TP318595555**	Price
5.7mm	.2244	6mm	28mm	72mm	**TP3161557**	Price

(Continued on next page)

EX-SUS GOLD® Drill Vanadium High Speed Steel • Stub Length • TiN Coated *(Continued from previous page)*

Type - Metric Size						
Dia.	Decimal Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Price
6.01mm	.2362	6mm	28mm	72mm	**TP3161560**	Price
6.1mm	.2402	8mm	31mm	75mm	**TP3161561**	Price
6.2mm	.2441	8mm	31mm	75mm	**TP3161562**	Price
6.3mm	.2480	8mm	31mm	75mm	**TP3161563**	Price
6.4mm	.2520	8mm	31mm	75mm	**TP3161564**	Price
6.45mm	.2539	8mm	31mm	75mm	**TP318595645**	Price
6.5mm	.2559	8mm	31mm	75mm	**TP3161565**	Price
6.6mm	.2598	8mm	31mm	75mm	**TP3161566**	Price
6.65mm	.2618	8mm	31mm	75mm	**TP318595665**	Price
6.8mm	.2677	8mm	34mm	78mm	**TP3161568**	Price
6.9mm	.2717	8mm	34mm	78mm	**TP3161569**	Price
7mm	.2756	8mm	34mm	78mm	**TP3161570**	Price
7.15mm	.2815	8mm	34mm	78mm	**TP318595715**	Price
7.2mm	.2835	8mm	34mm	78mm	**TP3161572**	Price
7.4mm	.2913	8mm	34mm	78mm	**TP3161574**	Price
7.5mm	.2953	8mm	34mm	78mm	**TP3161575**	Price
7.95mm	.3130	8mm	37mm	81mm	**TP318595795**	Price
8mm	.3150	8mm	37mm	81mm	**TP3161580**	Price

Type - Metric Size						
Dia.	Decimal Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Price
8.15mm	.3209	10mm	37mm	87mm	**TP318595815**	Price
8.5mm	.3346	10mm	37mm	87mm	**TP3161585**	Price
9mm	.3543	10mm	40mm	90mm	**TP3161590**	Price
9.1mm	.3583	10mm	40mm	90mm	**TP3161591**	Price
9.3mm	.3661	10mm	40mm	90mm	**TP3161593**	Price
9.4mm	.3701	10mm	40mm	90mm	**TP3161594**	Price
9.5mm	.3740	10mm	40mm	90mm	**TP3161595**	Price
9.55mm	.3760	10mm	43mm	93mm	**TP318595955**	Price
10mm	.3937	10mm	43mm	93mm	**TP3161600**	Price
10.5mm	.4134	12mm	43mm	100mm	**TP3161605**	Price
10.8mm	.4252	12mm	47mm	104mm	**TP3161608**	Price
11mm	.4331	12mm	47mm	104mm	**TP3161610**	Price
11.5mm	.4528	12mm	47mm	104mm	**TP3161615**	Price
12mm	.4724	12mm	51mm	108mm	**TP3161620**	Price
13mm	.5118	12mm	51mm	108mm	**TP3161630**	Price
14mm	.5512	16mm	54mm	114mm	**TP3161640**	Price
15mm	.5906	16mm	56mm	116mm	**TP316165011†**	Price
16mm	.6299	16mm	58mm	118mm	**TP3161660**	Price

† TiALN Coated

VPH® GDS Drill



Powdered High Speed Steel • 130° Point • V-Coated

- Stub length
- Recommended for cast iron, carbon steels, alloy steels, die steels, titanium, inconel and hardened steels up to 45 HrC
- OSG List #1900

Type - Fractional Size						
Size	Decimal Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Price
3/64	.0469	3mm	8mm	40mm	**TP478608119**	Price
1/16	.0626	3mm	10mm	42mm	**TP478608159**	Price
1/8	.1252	4mm	18mm	50mm	**TP478608318**	Price
11/64	.1720	6mm	24mm	68mm	**TP478608437**	Price
3/16	.1874	6mm	26mm	70mm	**TP478608476**	Price
15/64	.2343	6mm	28mm	72mm	**TP478608595**	Price
1/4, E	.2500	8mm	31mm	75mm	**TP478608635**	Price
17/64	.2657	8mm	34mm	78mm	**TP478608675**	Price
9/32, K	.2811	8mm	34mm	78mm	**TP478608714**	Price
19/64	.2969	8mm	34mm	78mm	**TP478608754**	Price
5/16	.3126	8mm	37mm	81mm	**TP478608794**	Price
21/64	.3280	10mm	37mm	87mm	**TP478608833**	Price
11/32	.3437	10mm	40mm	90mm	**TP478608873**	Price
23/64	.3594	10mm	40mm	90mm	**TP478608913**	Price
3/8	.3748	10mm	40mm	90mm	**TP478608952**	Price
25/64	.3906	10mm	43mm	93mm	**TP478608992**	Price
13/32	.4063	12mm	73mm	100mm	**TP478609032**	Price
27/64	.4220	12mm	47mm	104mm	**TP478609072**	Price
29/64	.4531	12mm	47mm	104mm	**TP478609151**	Price
15/32	.4689	12mm	47mm	104mm	**TP478609191**	Price
1/2	.5000	12mm	51mm	108mm	**TP478599127**	Price
17/32	.5311	16mm	54mm	114mm	**TP478609349**	Price
9/16	.5626	16mm	56mm	116mm	**TP478609429**	Price
5/8	.6252	16mm	58mm	118mm	**TP478609588**	Price
21/32	.6563	20mm	60mm	126mm	**TP478609667**	Price
3/4	.7500	20mm	66mm	132mm	**TP478609905**	Price

Type - Metric Size						
Size	Decimal Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Price
1.3mm	.0512	3mm	8mm	40mm	**TP478599013**	Price
1.5mm	.0591	3mm	9mm	41mm	**TP478599015**	Price
1.61mm	.0634	3mm	10mm	42mm	**TP478608161**	Price
1.7mm	.0669	3mm	10mm	42mm	**TP478599017**	Price
1.78mm	.0701	3mm	11mm	43mm	**TP478608178**	Price
1.85mm	.0728	3mm	11mm	43mm	**TP478608185**	Price
1.98mm	.0780	3mm	12mm	44mm	**TP478608198**	Price
2mm	.0787	3mm	12mm	44mm	**TP478599020**	Price
2.1mm	.0827	3mm	12mm	44mm	**TP479599021**	Price
2.18mm	.0858	3mm	13mm	45mm	**TP478608218**	Price
2.2mm	.0866	3mm	13mm	45mm	**TP479599022**	Price
2.26mm	.0890	3mm	13mm	45mm	**TP478608226**	Price
2.3mm	.0906	3mm	13mm	45mm	**TP479599023**	Price
2.38mm	.0937	3mm	14mm	46mm	**TP478608238**	Price
2.4mm	.0945	3mm	14mm	46mm	**TP479599024**	Price
2.44mm	.0961	3mm	14mm	46mm	**TP478608244**	Price
2.5mm	.0984	3mm	14mm	46mm	**TP479599025**	Price
2.58mm	.1016	3mm	14mm	46mm	**TP478608258**	Price
2.6mm	.1024	3mm	14mm	46mm	**TP479599026**	Price
2.78mm	.1094	3mm	16mm	46mm	**TP478608278**	Price
2.95mm	.1161	3mm	16mm	48mm	**TP478608295**	Price
3mm	.1181	3mm	16mm	48mm	**TP478599030**	Price
3.05mm	.1201	4mm	18mm	50mm	**TP478608305**	Price

Type - Metric Size						
Size	Decimal Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Price
3.1mm	.1220	4mm	18mm	50mm	**TP479599031**	Price
3.26mm	.1283	4mm	18mm	50mm	**TP478608326**	Price
3.3mm	.1299	4mm	18mm	50mm	**TP479599033**	Price
3.4mm	.1339	4mm	20mm	52mm	**TP479599034**	Price
3.45mm	.1358	4mm	20mm	52mm	**TP478608345**	Price
3.5mm	.1378	4mm	20mm	52mm	**TP479599035**	Price
3.57mm	.1406	4mm	20mm	52mm	**TP478608357**	Price
3.6mm	.1417	4mm	20mm	52mm	**TP479599036**	Price
3.66mm	.1441	4mm	20mm	52mm	**TP478608366**	Price
3.7mm	.1457	4mm	20mm	52mm	**TP479599037**	Price
3.9mm	.1535	4mm	22mm	54mm	**TP479599039**	Price
3.97mm	.1563	4mm	22mm	54mm	**TP478608397**	Price
3.99mm	.1571	4mm	22mm	54mm	**TP478608399**	Price
4mm	.1575	4mm	22mm	54mm	**TP478599040**	Price
4.1mm	.1614	6mm	22mm	66mm	**TP479599041**	Price
4.2mm	.1654	6mm	22mm	66mm	**TP479599042**	Price
4.4mm	.1732	6mm	24mm	68mm	**TP479599044**	Price
4.5mm	.1772	6mm	24mm	68mm	**TP479599045**	Price
4.57mm	.1799	6mm	24mm	68mm	**TP478608457**	Price
4.6mm	.1811	6mm	24mm	68mm	**TP479599046**	Price
4.62mm	.1819	6mm	24mm	68mm	**TP478608462**	Price
4.7mm	.1850	6mm	24mm	68mm	**TP479599047**	Price
4.8mm	.1890	6mm	26mm	70mm	**TP479599048**	Price
5mm	.1969	6mm	26mm	70mm	**TP478599050**	Price
5.1mm	.2008	6mm	26mm	70mm	**TP479599051**	Price
5.16mm	.2031	6mm	26mm	70mm	**TP478608516**	Price
5.41mm	.2130	6mm	28mm	72mm	**TP478608541**	Price
5.5mm	.2165	6mm	28mm	72mm	**TP479599055**	Price
5.56mm	.2189	6mm	28mm	72mm	**TP478608556**	Price
5.7mm	.2244	6mm	28mm	72mm	**TP479599057**	Price
5.79mm	.2280	6mm	28mm	70mm	**TP478608579**	Price
5.8mm	.2283	6mm	28mm	72mm	**TP479599058**	Price
6mm	.2362	6mm	28mm	72mm	**TP478599060**	Price
6.1mm	.2402	8mm	31mm	75mm	**TP479599061**	Price
6.2mm	.2441	8mm	31mm	75mm	**TP479599062**	Price
6.3mm	.2480	8mm	31mm	75mm	**TP479599063**	Price
6.4mm	.2520	8mm	31mm	75mm	**TP479599064**	Price
6.5mm	.2559	8mm	31mm	75mm	**TP479599065**	Price
6.6mm	.2598	8mm	31mm	75mm	**TP479599066**	Price
6.7mm	.2638	8mm	31mm	75mm	**TP479599067**	Price
6.8mm	.2677	8mm	34mm	78mm	**TP479599068**	Price
7mm	.2756	8mm	34mm	78mm	**TP478599070**	Price
7.1mm	.2795	8mm	34mm	78mm	**TP479599071**	Price
7.2mm	.2835	8mm	34mm	78mm	**TP479599072**	Price
8mm	.3150	8mm	37mm	81mm	**TP478599080**	Price
9mm	.3543	10mm	40mm	90mm	**TP479599090**	Price
10mm	.3937	10mm	43mm	93mm	**TP478599100**	Price
11mm	.4331	12mm	47mm	104mm	**TP478599110**	Price
12mm	.4724	12mm	51mm	108mm	**TP478599120**	Price
16mm	.6299	16mm	58mm	118mm	**TP478599160**	Price

PROCUT Left Hand Screw Machine Drills

High Speed Steel • 118° Standard Point



- Left hand screw machine drills have a left hand helix for applications where shorter, more rigid length is required in a left hand rotation
- These drills may also be used in drilling out broken studs, bolts and screws

NOTE: Many wire gage and letter sizes in stock (while supplies last)-call for price and availability

Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	5/8	1-5/8	**AE55004**	Price
5/64	11/16	1-11/16	**AE55005**	Price
3/32	3/4	1-3/4	**AE55006**	Price
7/64	13/16	1-13/16	**AE55007**	Price
1/8	7/8	1-7/8	**AE55008**	Price
9/64	15/16	1-15/16	**AE55009**	Price
5/32	1	2-1/16	**AE55010**	Price
11/64	1-1/16	2-1/8	**AE55011**	Price
3/16	1-1/8	2-3/16	**AE55012**	Price
13/64	1-3/16	2-1/4	**AE55013**	Price
7/32	1-1/4	2-3/8	**AE55014**	Price
15/64	1-5/16	2-7/16	**AE55015**	Price
1/4	1-3/8	2-1/2	**AE55016**	Price
17/64	1-7/16	2-5/8	**AE55017**	Price
9/32	1-1/2	2-11/16	**AE55018**	Price
19/64	1-9/16	2-3/4	**AE55019**	Price
5/16	1-5/8	2-13/16	**AE55020**	Price
21/64	1-11/16	2-15/16	**AE55021**	Price

Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
11/32	1-11/16	3	**AE55022**	Price
23/64	1-3/4	3-1/16	**AE55023**	Price
3/8	1-13/16	3-1/8	**AE55024**	Price
25/64	1-7/8	3-1/4	**AE55025**	Price
13/32	1-15/16	3-5/16	**AE55026**	Price
27/64	2	3-3/8	**AE55027**	Price
7/16	2-1/16	3-7/16	**AE55028**	Price
29/64	2-1/8	3-9/16	**AE55029**	Price
15/32	2-1/8	3-5/8	**AE55030**	Price
31/64	2-3/16	3-11/16	**AE55031**	Price
1/2	2-1/4	3-3/4	**AE55032**	Price
19/32	2-5/8	4-1/8	**AE55038**	Price
11/16	2-7/8	4-5/8	**AE55044**	Price
25/32	3-1/4	5-1/8	**AE55050**	Price
51/64	3-3/8	5-1/4	**AE55051**	Price
27/32	3-1/2	5-3/8	**AE55054**	Price
57/64	3-5/8	5-5/8	**AE55057**	Price

PROCUT Drill & Reamer Blanks

High Speed Steel



- Bright finish
- Hardened and ground
- Can be used as gages to check hole size and drill bushing sizes
- Can also be used as guide pins or die sets, or modified as punches

DRILL BLANKS TOLERANCE:
+.0000 –.0003”
Sizes over 1/2” +.0000 –.0005”

REAMER BLANKS TOLERANCE:
+.0002 –.0000”
Sizes over 1/2” +.0005 –.0000”

Description - Fractional Size						
			Drill Blank		Reamer Blank	
Size (in.)	Decimal Equiv.	OAL (in.)	Order No.	Price	Order No.	Price
1/64	.0156	3/4	**AY50001**	Price	**-**	-
1/32	.0312	1-3/8	**AY50002**	Price	**AY60002**	Price
3/64	.0469	1-3/4	**AY50003**	Price	**AY60003**	Price
1/16	.0625	1-7/8	**AY50004**	Price	**AY60004**	Price
5/64	.0781	2	**AY50005**	Price	**AY60005**	Price
3/32	.0938	2-1/4	**AY50006**	Price	**AY60006**	Price
7/64	.1094	2-5/8	**AY50007**	Price	**AY60007**	Price
1/8	.1250	2-3/4	**AY50008**	Price	**AY60008**	Price
9/64	.1406	2-7/8	**AY50009**	Price	**AY60009**	Price
5/32	.1562	3	**AY50010**	Price	**AY60010**	Price
11/64	.1719	3-1/4	**AY50011**	Price	**AY60011**	Price
3/16	.1875	3-1/2	**AY50012**	Price	**AY60012**	Price
13/64	.2031	3-5/8	**AY50013**	Price	**AY60013**	Price
7/32	.2188	3-3/4	**AY50014**	Price	**AY60014**	Price
15/64	.2344	3-7/8	**AY50015**	Price	**AY60015**	Price
1/4	.2500	4	**AY50016**	Price	**AY60016**	Price
17/64	.2656	4-1/8	**AY50017**	Price	**AY60017**	Price
9/32	.2812	4-1/4	**AY50018**	Price	**AY60018**	Price
19/64	.2969	4-3/8	**AY50019**	Price	**AY60019**	Price
5/16	.3125	4-1/2	**AY50020**	Price	**AY60020**	Price
21/64	.3281	4-5/8	**AY50021**	Price	**AY60021**	Price
11/32	.3438	4-3/4	**AY50022**	Price	**AY60022**	Price
23/64	.3594	4-7/8	**AY50023**	Price	**AY60023**	Price
3/8	.3750	5	**AY50024**	Price	**AY60024**	Price
25/64	.3906	5-1/8	**AY50025**	Price	**AY60025**	Price
13/32	.4062	5-1/4	**AY50026**	Price	**AY60026**	Price
27/64	.4219	5-3/8	**AY50027**	Price	**AY60027**	Price
7/16	.4375	5-1/2	**AY50028**	Price	**AY60028**	Price
29/64	.4531	5-5/8	**AY50029**	Price	**AY60029**	Price
15/32	.4688	5-3/4	**AY50030**	Price	**AY60030**	Price
31/64	.4844	5-7/8	**AY50031**	Price	**AY60031**	Price
1/2	.5000	6	**AY50032**	Price	**AY60032**	Price
33/64	.5156	6	**AY50033**	Price	**-**	-
17/32	.5312	6	**AY50034**	Price	**AY60034**	Price
35/64	.5469	6	**AY50035**	Price	**AY60035**	Price
9/16	.5625	6	**AY50036**	Price	**AY60036**	Price
19/32	.5938	6	**AY50038**	Price	**AY60038**	Price

Description - Fractional Size						
			Drill Blank		Reamer Blank	
Size (in.)	Decimal Equiv.	OAL (in.)	Order No.	Price	Order No.	Price
39/64	.6094	6	**AY50039**	Price	**AY60039**	Price
5/8	.6250	6	**AY50040**	Price	**AY60040**	Price
41/64	.6406	6	**AY50041**	Price	**-**	-
21/32	.6562	6	**AY50042**	Price	**AY60042**	Price
43/64	.6719	6	**AY50043**	Price	**AY60043**	Price
11/16	.6875	6	**AY50044**	Price	**AY60044**	Price
45/64	.7031	6	**AY50045**	Price	**-**	-
23/32	.7188	6	**AY50046**	Price	**AY60046**	Price
47/64	.7344	6	**AY50047**	Price	**AY60047**	Price
3/4	.7500	6	**AY50048**	Price	**AY60048**	Price
49/64	.7656	6	**AY50049**	Price	**-**	-
25/32	.7812	6	**AY50050**	Price	**AY60050**	Price
51/64	.7969	6	**AY50051**	Price	**-**	-
13/16	.8125	6	**AY50052**	Price	**AY60052**	Price
53/64	.8281	6	**AY50053**	Price	**-**	-
27/32	.8438	6	**AY50054**	Price	**-**	-
55/64	.8594	6	**AY50055**	Price	**-**	-
7/8	.8750	6	**AY50056**	Price	**AY60056**	Price
57/64	.8906	6	**AY50057**	Price	**-**	-
29/32	.9062	6	**AY50058**	Price	**-**	-
59/64	.9219	6	**AY50059**	Price	**-**	-
15/16	.9375	6	**AY50060**	Price	**AY60060**	Price
61/64	.9531	6	**AY50061**	Price	**-**	-
31/32	.9688	6	**AY50062**	Price	**-**	-
63/64	.9844	6	**AY50063**	Price	**-**	-
1	1.0000	6	**AY50100**	Price	**AY60100**	Price

Description - Letter Size						
			Drill Blank		Reamer Blank	
Size (in.)	Decimal Equiv.	OAL (in.)	Order No.	Price	Order No.	Price
A	.2340	3-7/8	**AY51201**	Price	**AY60201**	Price
B	.2380	4	**AY51202**	Price	**AY60202**	Price
C	.2420	4	**AY51203**	Price	**AY60203**	Price
D	.2460	4	**AY51204**	Price	**AY60204**	Price
E	.2500	4	**-**	-	**AY60205**	Price
F	.2570	4-1/8	**AY51206**	Price	**AY60206**	Price
G	.2610	4-1/8	**AY51207**	Price	**AY60207**	Price
H	.2660	4-1/8	**AY51208**	Price	**AY60208**	Price
I	.2720	4-1/8	**AY51209**	Price	**AY60209**	Price
J	.2770	4-1/8	**AY51210**	Price	**AY60210**	Price
K	.2810	4-1/4	**AY51211**	Price	**AY60211**	Price
L	.2900	4-1/4	**AY51212**	Price	**AY60212**	Price
M	.2950	4-3/8	**AY51213**	Price	**AY60213**	Price
N	.3020	4-3/8	**AY51214**	Price	**AY60214**	Price
O	.3160	4-1/2	**AY51215**	Price	**AY60215**	Price
P	.3230	4-5/8	**AY51216**	Price	**AY60216**	Price
Q	.3320	4-3/4	**AY51217**	Price	**AY60217**	Price
R	.3390	4-3/4	**AY51218**	Price	**AY60218**	Price
S	.3480	4-7/8	**AY51219**	Price	**AY60219**	Price
T	.3580	4-7/8	**AY51220**	Price	**AY60220**	Price
U	.3680	5	**AY51221**	Price	**AY60221**	Price
V	.3770	5	**AY51222**	Price	**AY60222**	Price
W	.3860	5-1/8	**AY51223**	Price	**AY60223**	Price
X	.3970	5-1/8	**AY51224**	Price	**AY60224**	Price
Y	.4040	5-1/4	**AY51225**	Price	**AY60225**	Price
Z	.4130	5-1/4	**AY51226**	Price	**AY60226**	Price

PROCUT Drill & Reamer Blanks

High Speed Steel



- Bright finish
- Hardened and ground
- Often used as gages to check hole size and drill bushing sizes
- Can be used as guide pins or die sets, or modified as punches

DRILL BLANK TOLERANCE: +.0000 –.0003”
REAMER BLANK TOLERANCE: +.0002 –.0000”

			Drill Blank		Reamer Blank	
Size	Decimal Equiv.	OAL (in.)	Order No.	Price	Order No.	Price
1	.2280	3-7/8	**AY52101**	Price	**AY60101**	Price
2	.2210	3-7/8	**AY52102**	Price	**AY60102**	Price
3	.2130	3-3/4	**AY52103**	Price	**AY60103**	Price
4	.2090	3-3/4	**AY52104**	Price	**AY60104**	Price
5	.2055	3-3/4	**AY52105**	Price	**AY60105**	Price
6	.2040	3-3/4	**AY52106**	Price	**AY60106**	Price
7	.2010	3-5/8	**AY52107**	Price	**AY60107**	Price
8	.1990	3-5/8	**AY52108**	Price	**AY60108**	Price
9	.1960	3-5/8	**AY52109**	Price	**AY60109**	Price
10	.1935	3-5/8	**AY52110**	Price	**AY60110**	Price
11	.1910	3-1/2	**AY52111**	Price	**AY60111**	Price
12	.1890	3-1/2	**AY52112**	Price	**AY60112**	Price
13	.1850	3-1/2	**AY52113**	Price	**AY60113**	Price
14	.1820	3-3/8	**AY52114**	Price	**AY60114**	Price
15	.1800	3-3/8	**AY52115**	Price	**AY60115**	Price
16	.1770	3-3/8	**AY52116**	Price	**AY60116**	Price
17	.1730	3-3/8	**AY52117**	Price	**AY60117**	Price
18	.1695	3-1/4	**AY52118**	Price	**AY60118**	Price
19	.1660	3-1/4	**AY52119**	Price	**AY60119**	Price
20	.1610	3-1/4	**AY52120**	Price	**AY60120**	Price
21	.1590	3-1/4	**AY52121**	Price	**AY60121**	Price
22	.1570	3-1/8	**AY52122**	Price	**AY60122**	Price
23	.1540	3-1/8	**AY52123**	Price	**AY60123**	Price
24	.1520	3-1/8	**AY52124**	Price	**AY60124**	Price
25	.1495	3	**AY52125**	Price	**AY60125**	Price
26	.1470	3	**AY52126**	Price	**AY60126**	Price
27	.1440	3	**AY52127**	Price	**AY60127**	Price
28	.1405	2-7/8	**AY52128**	Price	**AY60128**	Price
29	.1360	2-7/8	**AY52129**	Price	**AY60129**	Price
30	.1285	2-3/4	**AY52130**	Price	**AY60130**	Price
31	.1200	2-3/4	**AY52131**	Price	**AY60131**	Price
32	.1160	2-3/4	**AY52132**	Price	**AY60132**	Price
33	.1130	2-5/8	**AY52133**	Price	**AY60133**	Price
34	.1110	2-5/8	**AY52134**	Price	**AY60134**	Price
35	.1100	2-5/8	**AY52135**	Price	**AY60135**	Price
36	.1065	2-1/2	**AY52136**	Price	**AY60136**	Price
37	.1040	2-1/2	**AY52137**	Price	**AY60137**	Price
38	.1015	2-1/2	**AY52138**	Price	**AY60138**	Price
39	.0995	2-3/8	**AY52139**	Price	**AY60139**	Price
40	.0980	2-3/8	**AY52140**	Price	**AY60140**	Price
41	.0960	2-3/8	**AY52141**	Price	**AY60141**	Price
42	.0935	2-1/4	**AY52142**	Price	**AY60142**	Price
43	.0890	2-1/4	**AY52143**	Price	**AY60143**	Price
44	.0860	2-1/8	**AY52144**	Price	**AY60144**	Price
45	.0820	2-1/8	**AY52145**	Price	**AY60145**	Price
46	.0810	2-1/8	**AY52146**	Price	**AY60146**	Price
47	.0785	2	**AY52147**	Price	**AY60147**	Price
48	.0760	2	**AY52148**	Price	**AY60148**	Price
49	.0730	2	**AY52149**	Price	**AY60149**	Price
50	.0700	2	**AY52150**	Price	**AY60150**	Price
51	.0670	2	**AY52151**	Price	**AY60151**	Price
52	.0635	1-7/8	**AY52152**	Price	**AY60152**	Price
53	.0595	1-7/8	**AY52153**	Price	**AY60153**	Price
54	.0550	1-7/8	**AY52154**	Price	**AY60154**	Price
55	.0520	1-7/8	**AY52155**	Price	**AY60155**	Price
56	.0465	1-3/4	**AY52156**	Price	**AY60156**	Price
57	.0430	1-3/4	**AY52157**	Price	**AY60157**	Price
58	.0420	1-5/8	**AY52158**	Price	**AY60158**	Price
59	.0410	1-5/8	**AY52159**	Price	**AY60159**	Price
60	.0400	1-5/8	**AY52160**	Price	**AY60160**	Price
61	.0390	1-5/8	**AY52161**	Price	**AY60161**	Price
62	.0380	1-1/2	**AY52162**	Price	**AY60162**	Price
63	.0370	1-1/2	**AY52163**	Price	**AY60163**	Price
64	.0360	1-1/2	**AY52164**	Price	**AY60164**	Price
65	.0350	1-1/2	**AY52165**	Price	**AY60165**	Price
66	.0330	1-3/8	**AY52166**	Price	**AY60166**	Price
67	.0320	1-3/8	**AY52167**	Price	**AY60167**	Price
68	.0310	1-3/8	**AY52168**	Price	**AY60168**	Price
69	.0292	1-3/8	**AY52169**	Price	**AY60169**	Price
70	.0280	1-1/4	**AY52170**	Price	**AY60170**	Price
71	.0260	1-1/4	**AY52171**	Price	**AY60171**	Price
72	.0250	1-1/8	**AY52172**	Price	**AY60172**	Price
73	.0240	1-1/8	**AY52173**	Price	**AY60173**	Price
74	.0225	1	**AY52174**	Price	**AY60174**	Price
75	.0210	1	**AY52175**	Price	**AY60175**	Price
76	.0200	7/8	**AY52176**	Price	**AY60176**	Price
77	.0180	7/8	**AY52177**	Price	**AY60177**	Price
78	.0160	7/8	**AY52178**	Price	**AY60178**	Price
79	.0145	3/4	**AY52179**	Price	**AY60179**	Price
80	.0135	3/4	**AY52180**	Price	**AY60180**	Price

Metric Jobber Drill Blanks

High Speed Steel

- Bright finish
- Hardened and ground

TOLERANCES:
Up to .5000 +.0000 – .0002”
.5001 to .6250 +.0000 – .0003”
.6251 to 1.000 +.0000 – .0005”

Price	Decimal Equiv.	OAL (in.)	Order No.	Price
1.00	.0394	1-5/8	**AY650100**	Price
1.50	.0590	1-7/8	**AY650150**	Price
2.00	.0787	2-1/8	**AY650200**	Price
2.50	.0984	2-3/8	**AY650250**	Price
3.00	.1181	2-3/4	**AY650300**	Price
3.50	.1378	2-7/8	**AY650350**	Price
4.00	.1575	3-1/4	**AY650400**	Price
4.50	.1772	3-3/8	**AY650450**	Price
5.00	.1968	3-5/8	**AY650500**	Price
5.50	.2165	3-7/8	**AY650550**	Price
6.00	.2362	4	**AY650600**	Price
6.50	.2559	4-1/8	**AY650650**	Price
7.00	.2756	4-1/8	**AY650700**	Price
7.50	.2953	4-3/8	**AY650750**	Price
8.00	.3150	4-1/2	**AY650800**	Price
8.50	.3346	4-3/4	**AY650850**	Price
9.00	.3543	4-7/8	**AY650900**	Price
9.50	.3740	5	**AY650950**	Price
10.00	.3937	5-1/8	**AY651000**	Price
10.50	.4134	5-3/8	**AY651050**	Price
11.00	.4331	5-1/2	**AY651100**	Price
11.50	.4527	5-5/8	**AY651150**	Price
12.00	.4724	5-7/8	**AY651200**	Price
12.50	.4921	6	**AY651250**	Price
13.00	.5118	5	**AY651300**	Price
13.50	.5315	6	**AY651350**	Price
14.00	.5512	6	**AY651400**	Price
14.50	.5709	6	**AY651450**	Price
15.00	.5906	6	**AY651500**	Price
15.50	.6102	6	**AY651550**	Price
16.00	.6299	6	**AY651600**	Price
16.50	.6496	6	**AY651650**	Price
17.00	.6693	6	**AY651700**	Price
17.50	.6890	6	**AY651750**	Price
18.00	.7087	6	**AY651800**	Price
18.50	.7283	6	**AY651850**	Price
19.00	.7480	6	**AY651900**	Price
19.50	.7677	6	**AY651950**	Price
20.00	.7874	6	**AY652000**	Price
20.50	.8071	6	**AY652050**	Price
21.00	.8268	6	**AY652100**	Price
21.50	.8465	6	**AY652150**	Price
22.00	.8661	6	**AY652200**	Price
22.50	.8858	6	**AY652250**	Price
23.00	.9055	6	**AY652300**	Price
23.50	.9252	6	**AY652350**	Price
24.00	.9449	6	**AY652400**	Price
24.50	.9646	6	**AY652450**	Price
25.00	.9843	6	**AY652500**	Price

Note: Other metric sizes available POA

Taper Length Drills



High Speed Steel • 118° Standard Point

- Bright finish to 1/2" diameter, surface treated over 1/2"
- Taper length drills - longer than jobber length
- Designed to perform under a variety of normal conditions and in a broad range of materials
- **Fast spiral drills provide for improved chip evacuation**
- Morse List #1314
- Precision Twist List #R51

				Morse Cutting Tools		Precision Twist Drill		ProCut			
				Regular Spiral		Regular Spiral		Regular Spiral		Fast Spiral	
Size (in.)	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/64	.0156	5/16	1-1/2	-	-	PT2151001	Price	AB50001	Price	-	-
1/32	.0312	3/4	2	-	-	PT2151002	Price	AB50002	Price	-	-
3/64	.0469	1-1/8	2-1/4	MT1810553†	Price	PT2151003	Price	AB50003	Price	-	-
1/16	.0625	1-3/4	3	MT1810554†	Price	PT2151004	Price	AB50004	Price	AB55004	Price
5/64	.0781	2	3-3/4	MT1810555†	Price	PT2151005	Price	AB50005	Price	AB55005	Price
3/32	.0938	2-1/4	4-1/4	MT1810556†	Price	PT2151006	Price	AB50006	Price	AB55006	Price
7/64	.1094	2-1/2	4-5/8	MT1810557†	Price	PT2151007	Price	AB50007	Price	AB55007	Price
1/8	.1250	2-3/4	5-1/8	MT1810558†	Price	PT2151008	Price	AB50008	Price	AB55008	Price
9/64	.1406	3	5-3/8	MT1810559†	Price	PT2151009	Price	AB50009	Price	AB55009	Price
5/32	.1562	3	5-3/8	MT1810560†	Price	PT2151010	Price	AB50010	Price	AB55010	Price
11/64	.1719	3-3/8	5-3/4	MT1810561†	Price	PT2151011	Price	AB50011	Price	AB55011	Price
3/16	.1875	3-3/8	53/4	MT1810562†	Price	PT2151012	Price	AB50012	Price	AB55012	Price
13/64	.2031	3-5/8	6	MT1810563†	Price	PT2151013	Price	AB50013	Price	AB55013	Price
7/32	.2188	3-5/8	6	MT1810564†	Price	PT2151014	Price	AB50014	Price	AB55014	Price
15/64	.2344	3-3/4	6-1/8	MT1810565†	Price	PT2151015	Price	AB50015	Price	AB55015	Price
1/4	.2500	3-3/4	6-1/8	MT1810566†	Price	PT2151016	Price	AB50016	Price	AB55016	Price
17/64	.2656	3-7/8	6-1/4	MT1810567†	Price	PT2151017	Price	AB50017	Price	AB55017	Price
9/32	.2812	3-7/8	6-1/4	MT1810568†	Price	PT2151018	Price	AB50018	Price	AB55018	Price
19/64	.2969	4	6-3/8	MT1810569†	Price	PT2151019	Price	AB50019	Price	AB55019	Price
5/16	.3125	4	6-3/8	MT1810570†	Price	PT2151020	Price	AB50020	Price	AB55020	Price
21/64	.3281	4-1/8	6-1/2	MT1810571†	Price	PT2151021	Price	AB50021	Price	AB55021	Price
11/32	.3438	4-1/8	6-1/2	MT1810572†	Price	PT2151022	Price	AB50022	Price	AB55022	Price
23/64	.3594	4-1/4	6-3/4	MT1810573†	Price	PT2151023	Price	AB50023	Price	AB55023	Price
3/8	.3750	4-1/4	6-3/4	MT1810574†	Price	PT2151024	Price	AB50024	Price	AB55024	Price
25/64	.3906	4-3/8	7	MT1810575†	Price	PT2151025	Price	AB50025	Price	AB55025	Price
13/32	.4062	4-3/8	7	MT1810576†	Price	PT2151026	Price	AB50026	Price	AB55026	Price
27/64	.4219	4-5/8	7-1/4	MT1810577†	Price	PT2151027	Price	AB50027	Price	AB55027	Price
7/16	.4375	4-5/8	7-1/4	MT1810578†	Price	PT2151028	Price	AB50028	Price	AB55028	Price
29/64	.4531	4-3/4	7-1/2	MT1810579†	Price	PT2151029	Price	AB50029	Price	AB55029	Price
15/32	.4688	4-3/4	7-1/2	MT1810580†	Price	PT2151030	Price	AB50030	Price	AB55030	Price
31/64	.4844	4-3/4	7-3/4	MT1810581†	Price	PT2151031	Price	AB50031	Price	AB55031	Price
1/2	.5000	4-3/4	7-3/4	MT1810582†	Price	PT2151032	Price	AB50032	Price	AB55032	Price
33/64	.5156	4-3/4	8	MT1810583†	Price	PT2151033	Price	AB50033	Price	-	-
17/32	.5312	4-3/4	8	MT1810584†	Price	PT2151034	Price	AB50034	Price	-	-
35/64	.5469	4-7/8	8-1/4	MT1810585†	Price	PT2151035	Price	AB50035	Price	-	-
9/16	.5625	4-7/8	8-1/4	MT1810586†	Price	PT2151036	Price	AB50036	Price	-	-
37/64	.5781	4-7/8	8-3/4	MT1810587†	Price	PT2151037	Price	AB50037	Price	-	-
19/32	.5938	4-7/8	8-3/4	MT1810588†	Price	PT2151038	Price	AB50038	Price	-	-
39/64	.6094	4-7/8	8-3/4	MT1810589†	Price	PT2151039	Price	AB50039	Price	-	-
5/8	.6250	4-7/8	8-3/4	MT1810590†	Price	PT2151040	Price	AB50040	Price	-	-
41/64	.6406	5-1/8	9	MT1810591†	Price	PT2151041	Price	AB50041	Price	-	-
21/32	.6562	5-1/8	9	MT1810592†	Price	PT2151042	Price	AB50042	Price	-	-
43/64	.6719	5-3/8	9-1/4	MT1810593†	Price	PT2151043	Price	AB50043	Price	-	-
11/16	.6875	5-3/8	9-1/4	MT1810594†	Price	PT2151044	Price	AB50044	Price	-	-
45/64	.7031	5-5/8	9-1/2	MT1810595†	Price	PT2151045†	Price	AB50045	Price	-	-
23/32	.7188	5-5/8	9-1/2	MT1810596†	Price	PT2151046†	Price	AB50046	Price	-	-
47/64	.7344	5-7/8	9-3/4	MT1810597†	Price	PT2151047†	Price	AB50047	Price	-	-
3/4	.7500	5-7/8	9-3/4	MT1810598†	Price	PT2151048†	Price	AB50048	Price	-	-
49/64	.7656	6	9-7/8	MT1810599†	Price	PT2151049	Price	AB50049	Price	-	-
25/32	.7812	6	9-7/8	MT1810600†	Price	PT2151050	Price	AB50050	Price	-	-
51/64	.7969	6-1/8	10	MT1810601†	Price	PT2151051	Price	AB50051	Price	-	-
13/16	.8125	6-1/8	10	MT1810602†	Price	PT2151052	Price	AB50052	Price	-	-
53/64	.8281	6-1/8	10	MT1810603†	Price	PT2151053	Price	AB50053	Price	-	-
27/32	.8438	6-1/8	10	MT1810604†	Price	PT2151054	Price	AB50054	Price	-	-
55/64	.8594	6-1/8	10	MT1810605†	Price	PT2151055	Price	AB50055	Price	-	-
7/8	.8750	6-1/8	10	MT1810606†	Price	PT2151056	Price	AB50056	Price	-	-
57/64	.8906	6-1/8	10	MT1810607†	Price	PT2151057	Price	AB50057	Price	-	-

† Black oxide treated

(Continued on next page)

Taper Length Drills *(Continued from previous page)*



				Morse Cutting Tools		Precision Twist Drill		ProCut			
				Regular Spiral		Regular Spiral		Regular Spiral		Fast Spiral	
Size (in.)	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
29/32	.9062	6-1/8	10	**MT1810608†**	Price	**PT2151058**	Price	-	-	-	-
59/64	.9219	6-1/8	10-3/4	**MT1810609†**	Price	**PT2151059**	Price	**AB50059**	Price	-	-
15/16	.9375	6-1/8	10-3/4	**MT1810610†**	Price	**PT2151060**	Price	**AB50060**	Price	-	-
61/64	.9531	6-3/8	11	**MT1810611†**	Price	**PT2151061**	Price	**AB50061**	Price	-	-
31/32	.9688	6-3/8	11	**MT1810612†**	Price	**PT2151062**	Price	**AB50062**	Price	-	-
63/64	.9844	6-3/8	11	**MT1810613†**	Price	**PT2151063**	Price	**AB50063**	Price	-	-
1	1.0000	6-3/8	11	**MT1810614†**	Price	**PT2151100**	Price	**AB50100**	Price	-	-
1-1/64	1.0156	6-1/2	11-1/8	**MT1810615†**	Price	**PT2151101**	Price	**AB50101**	Price	-	-
1-1/32	1.0312	6-1/2	11-1/8	**MT1810616†**	Price	**PT2151102**	Price	**AB50102**	Price	-	-
1-3/64	1.0469	6-5/8	11-1/4	**MT1810617†**	Price	**PT2151103**	Price	**AB50103**	Price	-	-
1-1/16	1.0625	6-5/8	11-1/4	**MT1810618†**	Price	**PT2151104**	Price	**AB50104**	Price	-	-
1-5/64	1.0781	6-7/8	11-1/2	**MT1810619†**	Price	**PT2151105**	Price	-	-	-	-
1-3/32	1.0938	6-7/8	11-1/2	**MT1810620†**	Price	**PT2151106**	Price	**AB50106**	Price	-	-
1-7/64	1.1094	7-1/8	11-3/4	**MT1810621†**	Price	**PT2151107**	Price	-	-	-	-
1-1/8	1.1250	7-1/8	11-3/4	**MT1810622†**	Price	**PT2151108**	Price	**AB50108**	Price	-	-
1-9/64	1.1406	7-1/4	11-7/8	**MT1810623†**	Price	**PT2151109**	Price	-	-	-	-
1-5/32	1.1563	7-1/4	11-7/8	**MT1810624†**	Price	**PT2151110**	Price	-	-	-	-
1-11/64	1.1719	7-3/8	12	**MT1810625†**	Price	**PT2151111**	Price	-	-	-	-
1-3/16	1.1875	7-3/8	12	**MT1810626†**	Price	**PT2151112**	Price	**AB50112**	Price	-	-
1-13/64	1.2031	7-1/2	12-1/8	**MT1810627†**	Price	**PT2151113**	Price	-	-	-	-
1-7/32	1.2188	7-1/2	12-1/8	**MT1810628†**	Price	**PT2151114**	Price	-	-	-	-
1-15/64	1.2344	7-7/8	12-1/2	**MT1810629†**	Price	**PT2151115**	Price	-	-	-	-
1-1/4	1.2500	7-7/8	12-1/2	**MT1810630†**	Price	**PT2151116**	Price	**AB50116**	Price	-	-
1-5/16	1.3125	8-5/8	14-1/4	**MT1810632†**	Price	**PT2151120**	Price	**AB50120**	Price	-	-
1-3/8	1.3750	8-7/8	14-1/2	**MT1810634†**	Price	**PT2151124**	Price	**AB50124**	Price	-	-
1-13/32	1.4062	9	14-5/8	-	-	-	-	**AB50126**	Price	-	-
1-7/16	1.4375	9-1/8	14-3/4	**MT1810636†**	Price	**PT2151128**	Price	**AB50128**	Price	-	-
1-15/32	1.4688	9-1/4	14-7/8	**MT1810637†**	Price	-	-	**AB50130**	Price	-	-
1-1/2	1.5000	9-3/8	15	**MT1810638†**	Price	**PT2151132**	Price	-	-	-	-
1-9/16	1.5625	9-5/8	15-1/4	**MT1810639†**	Price	**PT2151136**	Price	**AB50136**	Price	-	-
1-5/8	1.6250	9-7/8	15-5/8	-	-	**PT2151140**	Price	**AB50140**	Price	-	-
1-11/16	1.6875	10	15-3/4	-	-	-	-	**AB50144**	Price	-	-
1-3/4	1.7500	10-1/2	16-1/4	-	-	**PT2151148**	Price	**AB50148**	Price	-	-
1-13/16	1.8125	10-1/2	16-1/4	-	-	-	-	**AB50152**	Price	-	-
1-7/8	1.8750	10-3/4	16-1/2	-	-	-	-	**AB50156**	Price	-	-
1-15/16	1.9375	10-3/4	16-5/8	-	-	-	-	**AB50160**	Price	-	-
2	2.0000	10-3/4	16-5/8	-	-	-	-	**AB50200**	Price	-	-

† Black oxide treated

Taper Length Drills



High Speed Steel • 118° Point • Bright Finish

- Taper length drills - longer than jobbers length
- Designed to perform under a variety of normal conditions and in a broad range of materials
- **Fast spiral drills provide for improved chip evacuation**
- Morse List #1322
- Precision Twist List #R52

				Morse Cutting Tools		Precision Twist Drill		ProCut			
				Regular Spiral		Regular Spiral		Regular Spiral		Price	
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1	.2280	3-3/4	6-1/8	**MT1811110†**	Price	**PT2152001**	Price	**AB51101**	Price	**AB55101**	Price
2	.2210	3-3/4	6-1/8	**MT1811109†**	Price	**PT2152002**	Price	**AB51102**	Price	-	-
3	.2130	3-5/8	6	**MT1811108†**	Price	**PT2152003**	Price	**AB51103**	Price	**AB55103**	Price
4	.2090	3-5/8	6	**MT1811107†**	Price	**PT2152004**	Price	**AB51104**	Price	**AB55104**	Price
5	.2055	3-5/8	6	**MT1811106†**	Price	**PT2152005**	Price	**AB51105**	Price	**AB55105**	Price
6	.2040	3-5/8	6	**MT1811105†**	Price	**PT2152006**	Price	**AB51106**	Price	**AB55106**	Price
7	.2010	3-5/8	6	**MT1811104†**	Price	**PT2152007**	Price	**AB51107**	Price	**AB55107**	Price
8	.1990	3-5/8	6	**MT1811103†**	Price	**PT2152008**	Price	**AB51108**	Price	**AB55108**	Price
9	.1960	3-5/8	6	**MT1811102†**	Price	**PT2152009**	Price	**AB51109**	Price	**AB55109**	Price
10	.1935	3-5/8	6	**MT1811101†**	Price	**PT2152010**	Price	**AB51110**	Price	**AB55110**	Price
11	.1910	3-5/8	6	**MT1811100†**	Price	**PT2152011**	Price	**AB51111**	Price	**AB55111**	Price
12	.1890	3-5/8	6	**MT1811099†**	Price	**PT2152012**	Price	**AB51112**	Price	-	-
13	.1850	3-3/8	5-3/4	**MT1811098†**	Price	**PT2152013**	Price	**AB51113**	Price	**AB55113**	Price
14	.1820	3-3/8	5-3/4	**MT1811097†**	Price	**PT2152014**	Price	**AB51114**	Price	**AB55114**	Price
15	.1800	3-3/8	5-3/4	**MT1811096†**	Price	**PT2152015**	Price	**AB51115**	Price	**AB55115**	Price
16	.1770	3-3/8	5-3/4	**MT1811095†**	Price	**PT2152016**	Price	**AB51116**	Price	**AB55116**	Price
17	.1730	3-3/8	5-3/4	**MT1811094†**	Price	**PT2152017**	Price	**AB51117**	Price	-	-
18	.1695	3-3/8	5-3/4	**MT1811093†**	Price	**PT2152018**	Price	**AB51118**	Price	**AB55118**	Price
19	.1660	3-3/8	5-3/4	**MT1811092†**	Price	**PT2152019**	Price	**AB51119**	Price	**AB55119**	Price

† Black oxide treated

(Continued on next page)

Taper Length Drills

(Continued from previous page)



				Morse Cutting Tools		Precision Twist Drill		ProCut			
				Regular Spiral		Regular Spiral		Regular Spiral		Price	
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
20	.1610	3-3/8	5-3/4	**MT1811091†**	Price	**PT2152020**	Price	**AB51120**	Price	**AB55120**	Price
21	.1590	3-3/8	5-3/4	**MT1811090†**	Price	**PT2152021**	Price	**AB51121**	Price	**AB55121**	Price
22	.1570	3-3/8	5-3/4	**MT1811089†**	Price	**PT2152022**	Price	**AB51122**	Price	-	-
23	.1540	3	5-3/8	**MT1811088†**	Price	**PT2152023**	Price	**AB51123**	Price	-	-
24	.1520	3	5-3/8	**MT1811087†**	Price	**PT2152024**	Price	**AB51124**	Price	**AB55124**	Price
25	.1495	3	5-3/8	**MT1811086†**	Price	**PT2152025**	Price	**AB51125**	Price	**AB55125**	Price
26	.1470	3	5-3/8	**MT1811085†**	Price	**PT2152026**	Price	**AB51126**	Price	**AB55126**	Price
27	.1440	3	5-3/8	**MT1811084†**	Price	**PT2152027**	Price	**AB51127**	Price	**AB55127**	Price
28	.1405	3	5-3/8	**MT1811083†**	Price	**PT2152028**	Price	**AB51128**	Price	-	-
29	.1360	3	5-3/8	**MT1811082†**	Price	**PT2152029**	Price	**AB51129**	Price	**AB55129**	Price
30	.1285	3	5-3/8	**MT1811081†**	Price	**PT2152030**	Price	**AB51130**	Price	**AB55130**	Price
31	.1200	2-3/4	5-1/8	**MT1811080†**	Price	**PT2152031**	Price	**AB51131**	Price	**AB55131**	Price
32	.1160	2-3/4	5-1/8	**MT1811079†**	Price	**PT2152032**	Price	**AB51132**	Price	**AB55132**	Price
33	.1130	2-3/4	5-1/8	**MT1811078†**	Price	**PT2152033**	Price	**AB51133**	Price	**AB55133**	Price
34	.1110	2-3/4	5-1/8	**MT1811077†**	Price	**PT2152034**	Price	**AB51134**	Price	-	-
35	.1100	2-3/4	5-1/8	**MT1811076†**	Price	**PT2152035**	Price	**AB51135**	Price	-	-
36	.1065	2-1/2	4-5/8	**MT1811075†**	Price	**PT2152036**	Price	**AB51136**	Price	-	-
37	.1040	2-1/2	4-5/8	**MT1811074†**	Price	**PT2152037**	Price	**AB51137**	Price	-	-
38	.1015	2-1/2	4-5/8	**MT1811073†**	Price	**PT2152038**	Price	**AB51138**	Price	**AB55138**	Price
39	.0995	2-1/2	4-5/8	**MT1811072†**	Price	**PT2152039**	Price	**AB51139**	Price	**AB55139**	Price
40	.0980	2-1/2	4-5/8	**MT1811071†**	Price	**PT2152040**	Price	**AB51140**	Price	**AB55140**	Price
41	.0960	2-1/2	4-5/8	**MT1811070†**	Price	**PT2152041**	Price	**AB51141**	Price	**AB55141**	Price
42	.0935	2-1/4	4-1/4	**MT1811069†**	Price	**PT2152042**	Price	**AB51142**	Price	**AB55142**	Price
43	.0890	2-1/4	4-1/4	**MT1811068†**	Price	**PT2152043**	Price	**AB51143**	Price	**AB55143**	Price
44	.0860	2-1/4	4-1/4	**MT1811067†**	Price	**PT2152044**	Price	**AB51144**	Price	**AB55144**	Price
45	.0820	2-1/4	4-1/4	**MT1811066†**	Price	**PT2152045**	Price	**AB51145**	Price	**AB55145**	Price
46	.0810	2-1/4	4-1/4	**MT1811065†**	Price	**PT2152046**	Price	**AB51146**	Price	-	-
47	.0785	2-1/4	4-1/4	**MT1811064†**	Price	**PT2152047**	Price	**AB51147**	Price	-	-
48	.0760	2	3-3/4	**MT1811063†**	Price	**PT2152048**	Price	**AB51148**	Price	**AB55148**	Price
49	.0730	2	3-3/4	**MT1811062†**	Price	**PT2152049**	Price	**AB51149**	Price	**AB55149**	Price
50	.0700	2	3-3/4	**MT1811061†**	Price	**PT2152050**	Price	**AB51150**	Price	**AB55150**	Price
51	.0670	2	3-3/4	**MT1811060†**	Price	**PT2152051**	Price	**AB51151**	Price	**AB55151**	Price
52	.0635	2	3-3/4	**MT1811059†**	Price	**PT2152052**	Price	**AB51152**	Price	-	-
53	.0595	1-3/4	3	**MT1811058†**	Price	**PT2152053**	Price	**AB51153**	Price	**AB55153**	Price
54	.0550	1-3/4	3	**MT1811057†**	Price	**PT2152054**	Price	**AB51154**	Price	-	-
55	.0520	1-3/4	3	**MT1811056†**	Price	**PT2152055**	Price	**AB51155**	Price	-	-
56	.0465	1-1/8	2-1/4	**MT1811055†**	Price	**PT2152056**	Price	**AB51156**	Price	**AB55156**	Price
57	.0430	1-1/8	2-1/4	**MT1811054†**	Price	**PT2152057**	Price	**AB51157**	Price	**AB55157**	Price
58	.0420	1-1/8	2-1/4	**MT1811053†**	Price	**PT2152058**	Price	**AB51158**	Price	-	-
59	.0410	1-1/8	2-1/4	**MT1811052†**	Price	**PT2152059**	Price	**AB51159**	Price	-	-
60	.0400	1-1/8	2-1/4	**MT1811051†**	Price	**PT2152060**	Price	**AB51160**	Price	**AB55160**	Price
61	.0390	1-1/8	2-1/4	-	-	**PT2152061**	Price	**AB51161**	Price	-	-
62	.0380	3/4	2	-	-	**PT2152062**	Price	**AB51162**	Price	-	-
63	.0370	3/4	2	-	-	**PT2152063**	Price	**AB51163**	Price	**AB55163**	Price
64	.0360	3/4	2	-	-	**PT2152064**	Price	**AB51164**	Price	-	-
65	.0350	3/4	2	-	-	**PT2152065**	Price	**AB51165**	Price	-	-
66	.0330	3/4	2	-	-	**PT2152066**	Price	**AB51166**	Price	-	-
67	.0320	3/4	2	-	-	**PT2152067**	Price	**AB51167**	Price	-	-
68	.0310	1/2	2	-	-	**PT2152068**	Price	**AB51168**	Price	-	-
69	.0292	3/4	2	-	-	**PT2152069**	Price	-	-	-	-
70	.0280	3/4	2	-	-	**PT2152070**	Price	**AB51170**	Price	-	-
71	.0260	3/4	2	-	-	**PT2152071**	Price	**AB51171**	Price	-	-
72	.0250	5/16	1-1/2	-	-	**PT2152072**	Price	**AB51172**	Price	-	-
73	.0240	5/16	1-1/2	-	-	**PT2152073**	Price	**AB51173**	Price	-	-
74	.0225	5/16	1-1/2	-	-	**PT2152074**	Price	**AB51174**	Price	-	-
75	.0210	5/16	1-1/2	-	-	**PT2152075**	Price	**AB51175**	Price	-	-
76	.0200	5/16	1-1/2	-	-	**PT2152076**	Price	**AB51176**	Price	-	-
77	.0180	5/16	1-1/2	-	-	**PT2152077**	Price	**AB51177**	Price	-	-
78	.0160	5/16	1-1/2	-	-	**PT2152078**	Price	**AB51178**	Price	-	-
79	.0145	5/16	1-1/2	-	-	**PT2152079**	Price	-	-	-	-
80	.0135	5/16	1-1/2	-	-	**PT2152080**	Price	**AB51180**	Price	-	-

† Black oxide treated

PROCUT Taper Length Drills

High Speed Steel • 118° Point • Bright Finish

- Taper length drills - longer than jobbers length
- Designed to perform under a variety of normal conditions and in a broad range of materials



Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
A	.2340	3-3/4	6-1/8	**AB51201**	Price
B	.2380	3-3/4	6-1/8	**AB51202**	Price
C	.2420	3-3/4	6-1/8	**AB51203**	Price
D	.2460	3-3/4	6-1/8	**AB51204**	Price
F	.2570	3-7/8	6-1/4	**AB51206**	Price
G	.2610	3-7/8	6-1/4	**AB51207**	Price
H	.2660	3-7/8	6-1/4	**AB51208**	Price
I	.2720	3-7/8	6-1/4	**AB51209**	Price
J	.2770	3-7/8	6-1/4	**AB51210**	Price
K	.2810	3-7/8	6-1/4	**AB51211**	Price
L	.2900	4	6-3/8	**AB51212**	Price
M	.2950	4	6-3/8	**AB51213**	Price
N	.3020	4	6-3/8	**AB51214**	Price
O	.3160	4-1/8	6-1/2	**AB51215**	Price
P	.3230	4-1/8	6-1/2	**AB51216**	Price
Q	.3320	4-1/8	6-1/2	**AB51217**	Price
R	.3390	4-1/8	6-1/2	**AB51218**	Price
S	.3480	4-1/4	6-3/4	**AB51219**	Price
T	.3580	4-1/4	6-3/4	**AB51220**	Price
U	.3680	4-1/4	6-3/4	**AB51221**	Price
V	.3770	4-3/8	7	**AB51222**	Price
W	.3860	4-3/8	7	**AB51223**	Price
X	.3970	4-3/8	7	**AB51224**	Price
Y	.4040	4-3/8	7	**AB51225**	Price

Parabolic Flute Taper Length Drills

High Speed Steel • 135° Split Point

- Effective in deep hole drilling of aluminum alloys and other low to medium tensile strength materials
- Wide land parabolic design provides superior performance in a greater range of materials and applications
- Effective in both deep and shallow hole drilling
- Self-centering positive rake point for faster penetration
- Improved chip and coolant flow
- Bright finish
- Precision Twist List #QC91P



Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	1-3/4	3	**PT1557904**	Price
5/64	2	3-3/4	**PT1557905**	Price
3/32	2-1/4	4-1/4	**PT1557906**	Price
7/64	2-1/2	4-5/8	**PT1557907**	Price
1/8	2-3/4	5-1/8	**PT1557908**	Price
9/64	3	5-3/8	**PT1557909**	Price
5/32	3	5-3/8	**PT1557910**	Price
11/64	3-3/8	5-3/4	**PT1557911**	Price
3/16	3-3/8	5-3/4	**PT1557912**	Price
13/64	3-5/8	6	**PT1557913**	Price
7/32	3-5/8	6	**PT1557914**	Price
15/64	3-3/4	6-1/8	**PT1557915**	Price
1/4	3-3/4	6-1/8	**PT1557916**	Price
17/64	3-7/8	6-1/4	**PT1557917**	Price
9/32	3-7/8	6-1/4	**PT1557918**	Price
19/64	4	6-3/8	**PT1557919**	Price
5/16	4	6-3/8	**PT1557920**	Price
21/64	4-1/8	6-1/2	**PT1557921**	Price
11/32	4-1/8	6-1/2	**PT1557922**	Price
23/64	4-1/4	6-3/4	**PT1557923**	Price
3/8	4-1/4	6-3/4	**PT1557924**	Price
25/64	4-3/8	7	**PT1557925**	Price
13/32	4-3/8	7	**PT1557926**	Price
27/64	4-5/8	7-1/4	**PT1557927**	Price
7/16	4-5/8	7-1/4	**PT1557928**	Price
29/64	4-3/4	7-1/2	**PT1557929**	Price
15/32	4-3/4	7-1/2	**PT1557930**	Price
31/64	4-3/4	7-3/4	**PT1557931**	Price
1/2	4-3/4	7-3/4	**PT1557932**	Price

Parabolic Flute Taper Length Drills - Wire Gage Sizes

- High speed steel
- Surface treated
- 135° Split point
- Effective in deep hole drilling of aluminum alloys and other low to medium tensile strength materials
- Precision Twist List #QC91P



Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
1	.2280	3-3/4	6-1/8	**PT1559401**	Price
2	.2210	3-3/4	6-1/8	**PT1559402**	Price
3	.2130	3-5/8	6	**PT1559403**	Price
4	.2090	3-5/8	6	**PT1559404**	Price
5	.2055	3-5/8	6	**PT1559405**	Price
6	.2040	3-5/8	6	**PT1559406**	Price
7	.2010	3-5/8	6	**PT1559407**	Price
8	.1990	3-5/8	6	**PT1559408**	Price
9	.1960	3-5/8	6	**PT1559409**	Price
10	.1935	3-5/8	6	**PT1559410**	Price
11	.1910	3-5/8	6	**PT1559411**	Price
12	.1890	3-5/8	6	**PT1559412**	Price
13	.1850	3-3/8	5-3/4	**PT1559413**	Price
14	.1820	3-3/8	5-3/4	**PT1559414**	Price
15	.1800	3-3/8	5-3/4	**PT1559415**	Price
16	.1770	3-3/8	5-3/4	**PT1559416**	Price
17	.1730	3-3/8	5-3/4	**PT1559417**	Price
18	.1695	3-3/8	5-3/4	**PT1559418**	Price
19	.1660	3-3/8	5-3/4	**PT1559419**	Price
20	.1610	3-3/8	5-3/4	**PT1559420**	Price
21	.1590	3-3/8	5-3/4	**PT1559421**	Price
22	.1570	3-3/8	5-3/4	**PT1559422**	Price
23	.1540	3	5-3/8	**PT1559423**	Price
24	.1520	3	5-3/8	**PT1559424**	Price
25	.1495	3	5-3/8	**PT1559425**	Price
26	.1470	3	5-3/8	**PT1559426**	Price
27	.1440	3	5-3/8	**PT1559427**	Price
28	.1405	3	5-3/8	**PT1559428**	Price
29	.1360	3	5-3/8	**PT1559429**	Price
30	.1285	3	5-3/8	**PT1559430**	Price
31	.1200	2-3/4	5-1/8	**PT1559431**	Price
32	.1160	2-3/4	5-1/8	**PT1559432**	Price
33	.1130	2-3/4	5-1/8	**PT1559433**	Price
34	.1110	2-3/4	5-1/8	**PT1559434**	Price
35	.1100	2-3/4	5-1/8	**PT1559435**	Price
36	.1065	2-1/2	4-5/8	**PT1559436**	Price
37	.1040	2-1/2	4-5/8	**PT1559437**	Price
38	.1015	2-1/2	4-5/8	**PT1559438**	Price
39	.0995	2-1/2	4-5/8	**PT1559439**	Price
40	.0980	2-1/2	4-5/8	**PT1559440**	Price
41	.0960	2-1/2	4-5/8	**PT1559441**	Price
42	.0935	2-1/4	4-1/4	**PT1559442**	Price
43	.0890	2-1/4	4-1/4	**PT1559443**	Price
44	.0860	2-1/4	4-1/4	**PT1559444**	Price
45	.0820	2-1/4	4-1/4	**PT1559445**	Price
46	.0810	2-1/4	4-1/4	**PT1559446**	Price
47	.0785	2-1/4	4-1/4	**PT1559447**	Price
48	.0760	2	3-3/4	**PT1559448**	Price
49	.0730	2	3-3/4	**PT1559449**	Price
50	.0700	2	3-3/4	**PT1559450**	Price
51	.0670	2	3-3/4	**PT1559451**	Price
52	.0635	2	3-3/4	**PT1559452**	Price

PROFIT Metric Taper Length Drills

High Speed Steel • 118° Point

- Longer than jobber length
- Designed to perform under a variety of normal conditions in a broad range of materials



Size (mm)	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
1.00	.0394	1-1/8	2-1/4	**AB65100**	Price
1.05	.0413	1-1/8	2-1/4	**AB65105**	Price
1.10	.0433	1-1/8	2-1/4	**AB65110**	Price
1.15	.0453	1-1/8	2-1/4	**AB65115**	Price
1.20	.0472	1-1/8	2-1/4	**AB65120**	Price
1.25	.0492	1-3/4	3	**AB65125**	Price
1.30	.0512	1-3/4	3	**AB65130**	Price
1.40	.0551	1-3/4	3	**AB65140**	Price
1.45	.0571	1-3/4	3	**AB65145**	Price
1.50	.0591	1-3/4	3	**AB65150**	Price
1.55	.0610	1-3/4	3	**AB65155**	Price
1.60	.0630	2	3-3/4	**AB65160**	Price
1.65	.0650	2	3-3/4	**AB65165**	Price
1.70	.0669	2	3-3/4	**AB65170**	Price
1.75	.0689	2	3-3/4	**AB65175**	Price
1.80	.0709	2	3-3/4	**AB65180**	Price
1.85	.0728	2	3-3/4	**AB65185**	Price
1.90	.0748	2	3-3/4	**AB65190**	Price
1.95	.0768	2	3-3/4	**AB65195**	Price
2.00	.0787	2-1/4	4-1/4	**AB65200**	Price
2.05	.0807	2-1/4	4-1/4	**AB65205**	Price
2.10	.0827	2-1/4	4-1/4	**AB65210**	Price
2.15	.0846	2-1/4	4-1/4	**AB65215**	Price
2.20	.0866	2-1/4	4-1/4	**AB65220**	Price
2.25	.0886	2-1/4	4-1/4	**AB65225**	Price
2.30	.0906	2-1/4	4-1/4	**AB65230**	Price
2.35	.0925	2-1/4	4-1/4	**AB65235**	Price
2.40	.0945	2-1/2	4-5/8	**AB65240**	Price
2.50	.0984	2-1/2	4-5/8	**AB65250**	Price
2.60	.1024	2-1/2	4-5/8	**AB65260**	Price
2.70	.1063	2-1/2	4-5/8	**AB65270**	Price
2.80	.1102	2-3/4	5-1/8	**AB65280**	Price
2.90	.1142	2-3/4	5-1/8	**AB65290**	Price
3.00	.1181	2-3/4	5-1/8	**AB65300**	Price
3.10	.1220	2-3/4	5-1/8	**AB65310**	Price
3.20	.1260	3	5-3/8	**AB65320**	Price
3.30	.1299	3	5-3/8	**AB65330**	Price
3.50	.1378	3	5-3/8	**AB65350**	Price
3.60	.1417	3	5-3/8	**AB65360**	Price
3.70	.1457	3	5-3/8	**AB65370**	Price
4.00	.1575	3-3/8	5-3/4	**AB65400**	Price
4.10	.1614	3-3/8	5-3/4	**AB65410**	Price
4.20	.1654	3-3/8	5-3/4	**AB65420**	Price
4.30	.1693	3-3/8	5-3/4	**AB65430**	Price
4.40	.1732	3-3/8	5-3/4	**AB65440**	Price
4.50	.1772	3-3/8	5-3/4	**AB65450**	Price
4.60	.1811	3-3/8	5-3/4	**AB65460**	Price
4.70	.1850	3-3/8	5-3/4	**AB65470**	Price
4.80	.1890	3-5/8	6	**AB65480**	Price
5.00	.1969	3-5/8	6	**AB65500**	Price
5.10	.2008	3-5/8	6	**AB65510**	Price
5.40	.2126	3-5/8	6	**AB65540**	Price
5.50	.2165	3-5/8	6	**AB65550**	Price
5.60	.2205	3-3/4	6-1/8	**AB65560**	Price
5.70	.2244	3-3/4	6-1/8	**AB65570**	Price
5.80	.2283	3-3/4	6-1/8	**AB65580**	Price
6.00	.2362	3-3/4	6-1/8	**AB65600**	Price
6.10	.2402	3-3/4	6-1/8	**AB65610**	Price
6.20	.2441	3-3/4	6-1/8	**AB65620**	Price
6.30	.2480	3-3/4	6-1/8	**AB65630**	Price
6.40	.2520	3-7/8	6-1/4	**AB65640**	Price
6.50	.2559	3-7/8	6-1/4	**AB65650**	Price
6.80	.2677	3-7/8	6-1/4	**AB65680**	Price
7.00	.2756	3-7/8	6-1/4	**AB65700**	Price
7.20	.2835	4	6-3/8	**AB65720**	Price
7.50	.2953	4	6-3/8	**AB65750**	Price
8.00	.3150	4-1/8	6-1/2	**AB65800**	Price
8.20	.3228	4-1/8	6-1/2	**AB65820**	Price
8.50	.3346	4-1/8	6-1/2	**AB65850**	Price
8.80	.3465	4-1/2	6-3/4	**AB65880**	Price
9.00	.3543	4-1/2	6-3/4	**AB65900**	Price
9.20	.3622	4-1/2	6-3/4	**AB65920**	Price
9.50	.3740	4-1/2	6-3/4	**AB65950**	Price
10.00	.3937	4-3/8	7	**AB651000**	Price
10.20	.4016	4-3/8	7	**AB651020**	Price
10.50	.4134	4-5/8	7-1/4	**AB651050**	Price
10.80	.4252	4-5/8	7-1/4	**AB651080**	Price
11.00	.4331	4-5/8	7-1/4	**AB651100**	Price
11.50	.4528	4-3/4	7-1/2	**AB651150**	Price
11.80	.4646	4-3/4	7-1/2	**AB651180**	Price
12.00	.4724	4-3/4	7-3/4	**AB651200**	Price
12.20	.4803	4-3/4	7-3/4	**AB651220**	Price
12.50	.4921	4-3/4	7-3/4	**AB651250**	Price
12.80	.5039	4-3/4	8	**AB651280**	Price
13.00	.5118	4-3/4	8	**AB651300**	Price
13.20	.5197	4-3/4	8	**AB651320**	Price
13.50	.5315	4-3/4	8	**AB651350**	Price
14.00	.5512	4-7/8	8-1/4	**AB651400**	Price
14.50	.5709	4-7/8	8-3/4	**AB651450**	Price
14.75	.5807	4-7/8	8-3/4	**AB651475**	Price
15.00	.5906	4-7/8	8-3/4	**AB651500**	Price
15.25	.6004	4-7/8	8-3/4	**AB651525**	Price
15.50	.6102	4-7/8	8-3/4	**AB651550**	Price
15.75	.6201	4-7/8	8-3/4	**AB651575**	Price
16.00	.6299	5-1/8	9	**AB651600**	Price
16.25	.6398	5-1/8	9	**AB651625**	Price
17.00	.6693	5-3/8	9-1/4	**AB651700**	Price
17.25	.6791	5-3/8	9-1/4	**AB651725**	Price
17.50	.6890	5-5/8	9-1/2	**AB651750**	Price
18.00	.7087	5-5/8	9-1/2	**AB651800**	Price
18.50	.7283	5-7/8	9-3/4	**AB651850**	Price
19.00	.7480	5-7/8	9-3/4	**AB651900**	Price
19.50	.7677	6	9-7/8	**AB651950**	Price
20.00	.7874	6-1/8	10	**AB652000**	Price
20.50	.8071	6-1/8	10	**AB652050**	Price
21.00	.8268	6-1/8	10	**AB652100**	Price
21.50	.8465	6-1/8	10	**AB652150**	Price
22.00	.8661	6-1/8	10	**AB652200**	Price
22.50	.8858	6-1/8	10	**AB652250**	Price
23.00	.9055	6-1/8	10	**AB652300**	Price
23.50	.9252	6-1/8	10-3/4	**AB652350**	Price
24.00	.9449	6-3/8	11	**AB652400**	Price
24.50	.9646	6-3/8	11	**AB652450**	Price
25.00	.9843	6-3/8	11	**AB652500**	Price
26.00	1.0236	6-1/2	11-1/8	**AB652600**	Price
26.50	1.0433	6-5/8	11-1/4	**AB652650**	Price
27.00	1.0630	6-5/8	11-1/4	**AB652700**	Price
27.50	1.0827	6-7/8	11-1/2	**AB652750**	Price
28.00	1.1024	7-1/8	11-3/4	**AB652800**	Price
28.50	1.1220	7-1/8	11-3/4	**AB652850**	Price
29.00	1.1417	7-1/4	11-7/8	**AB652900**	Price
29.50	1.1614	7-3/8	12	**AB652950**	Price
31.00	1.2205	7-7/8	12-1/2	**AB653100**	Price
31.50	1.2402	7-7/8	12-1/2	**AB653150**	Price
32.00	1.2598	8-1/2	14-1/8	**AB653200**	Price
33.50	1.3189	8-3/4	14-3/8	**AB653350**	Price
34.00	1.3386	8-3/4	14-3/8	**AB653400**	Price
35.50	1.3976	9	14-5/8	**AB653550**	Price
37.00	1.4567	9-1/4	14-7/8	**AB653700**	Price
37.50	1.4764	9-3/8	15	**AB653750**	Price
38.00	1.4961	9-3/8	15	**AB653800**	Price

Cobalt Taper Length Drills

Cobalt • 135° Split Point



- Designed for heavy duty deep hole drilling in tough alloy steels, forgings and castings
- Morse List #2314
- Precision Twist List #M51CO

				Morse Cutting Tools		Precision Twist Drill		ProCut	
Size (in.)	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/16	.0625	1-3/4	3	-	-	PT2251304	Price	AB60004	Price
5/64	.0781	2	3-3/4	-	-	PT2251305	Price	AB60005	Price
3/32	.0938	2-1/4	4-1/4	MT6810764	Price	PT2251306	Price	AB60006	Price
7/64	.1094	2-1/2	4-5/8	-	-	PT2251307	Price	AB60007	Price
1/8	.1250	2-3/4	5-1/8	MT6810766	Price	PT2251308	Price	AB60008	Price
9/64	.1406	3	5-3/8	MT6810767	Price	PT2251309	Price	AB60009	Price
5/32	.1562	3	5-3/8	MT6810707	Price	PT2251310	Price	AB60010	Price
11/64	.1719	3-3/8	5-3/4	MT6810708	Price	PT2251311	Price	AB60011	Price
3/16	.1875	3-3/8	5-3/4	MT6810709	Price	PT2251312	Price	AB60012	Price
13/64	.2031	3-5/8	6	MT6810710	Price	PT2251313	Price	AB60013	Price
7/32	.2188	3-5/8	6	MT6810711	Price	PT2251314	Price	AB60014	Price
15/64	.2344	3-3/4	6-1/8	MT6810712	Price	PT2251315	Price	AB60015	Price
1/4	.2500	3-3/4	6-1/8	MT6810713	Price	PT2251316	Price	AB60016	Price
17/64	.2656	3-7/8	6-1/4	MT6810714	Price	PT2251317	Price	AB60017	Price
9/32	.2812	3-7/8	6-1/4	MT6810715	Price	PT2251318	Price	AB60018	Price
19/64	.2969	4	6-3/8	MT6810716	Price	PT2251319	Price	AB60019	Price
5/16	.3125	4	6-3/8	MT6810717	Price	PT2251320	Price	AB60020	Price
21/64	.3281	4-1/8	6-1/2	MT6810718	Price	PT2251321	Price	AB60021	Price
11/32	.3438	4-1/8	6-1/2	MT6810719	Price	PT2251322	Price	AB60022	Price
23/64	.3594	4-1/4	6-3/4	MT6810720	Price	PT2251323	Price	AB60023	Price
3/8	.3750	4-1/4	6-3/4	MT6810721	Price	PT2251324	Price	AB60024	Price
25/64	.3906	4-3/8	7	MT6810722	Price	PT2251325	Price	AB60025	Price
13/32	.4062	4-3/8	7	MT6810723	Price	PT2251326	Price	AB60026	Price
27/64	.4219	4-5/8	7-1/4	MT6810724	Price	PT2251327	Price	-	-
7/16	.4375	4-5/8	7-1/4	MT6810725	Price	PT2251328	Price	AB60028	Price
29/64	.4531	4-3/4	7-1/2	MT6810726	Price	PT2251329	Price	AB60029	Price
15/32	.4688	4-3/4	7-1/2	MT6810727	Price	PT2251330	Price	AB60030	Price
31/64	.4844	4-3/4	7-3/4	MT6810728	Price	PT2251331	Price	AB60031	Price
1/2	.5000	4-3/4	7-3/4	MT6810729	Price	PT2251332	Price	AB60032	Price
33/64	.5156	4-3/4	8	-	-	PT2251333	Price	AB60033	Price
17/32	.5312	4-3/4	8	-	-	PT2251334	Price	AB60034	Price
35/64	.5469	4-7/8	8-1/4	-	-	PT2251335	Price	-	-
9/16	.5625	4-7/8	8-1/4	-	-	PT2251336	Price	AB60036	Price
37/64	.5781	4-7/8	8-3/4	-	-	PT2251337	Price	AB60037	Price
19/32	.5938	4-7/8	8-3/4	-	-	PT2251338	Price	AB60038	Price
39/64	.6094	4-7/8	8-3/4	-	-	PT2251339	Price	-	-
5/8	.6250	4-7/8	8-3/4	-	-	PT2251340	Price	AB60040	Price
41/64	.6406	5-1/8	9	-	-	PT2251341	Price	AB60041	Price
21/32	.6562	5-1/8	9	-	-	PT2251342	Price	AB60042	Price
43/64	.6719	5-3/8	9-1/4	-	-	PT2251343	Price	AB60043	Price
11/16	.6875	5-3/8	9-1/4	-	-	PT2251344	Price	AB60044	Price
45/64	.7031	5-5/8	9-1/2	-	-	PT2251345	Price	AB60045	Price
23/32	.7188	5-5/8	9-1/2	-	-	PT2251346	Price	AB60046	Price
47/64	.7344	5-7/8	9-3/4	-	-	PT2251347	Price	AB60047	Price
3/4	.7500	5-7/8	9-3/4	-	-	PT2251348	Price	AB60048	Price
49/64	.7656	6	9-7/8	-	-	PT2251349	Price	AB60049	Price
25/32	.7812	6	9-7/8	-	-	PT2251350	Price	AB60050	Price
51/64	.7969	6-1/8	10	-	-	PT2251351	Price	AB60051	Price
13/16	.8125	6-1/8	10	-	-	PT2251352	Price	AB60052	Price
53/64	.8281	6-1/8	10	-	-	PT2251353	Price	-	-
27/32	.8438	6-1/8	10	-	-	PT2251354	Price	-	-
55/64	.8594	6-1/8	10	-	-	PT2251355	Price	AB60055	Price
7/8	.8750	6-1/8	10	-	-	PT2251356	Price	AB60056	Price
57/64	.8906	6-1/8	10	-	-	PT2251357	Price	AB60057	Price
29/32	.9062	6-1/8	10	-	-	PT2251358	Price	AB60058	Price
59/64	.9219	6-1/8	10-3/4	-	-	PT2251359	Price	-	-
15/16	.9375	6-1/8	10-3/4	-	-	PT2251360	Price	AB60060	Price
61/64	.9531	6-3/8	11	-	-	PT2251361	Price	AB60061	Price
31/32	.9688	6-3/8	11	-	-	PT2251362	Price	AB60062	Price
63/64	.9844	6-3/8	11	-	-	PT2251363	Price	AB60063	Price
1	1.0000	6-3/8	11	-	-	PT2251364	Price	-	-

Wire Gage Sizes

Size (in.)	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
1	.2280	3-3/4	6-1/8	AB60101	Price
2	.2210	3-3/4	6-1/8	AB60102	Price
3	.2130	3-5/8	6	AB60103	Price
4	.2090	3-5/8	6	AB60104	Price
5	.2055	3-5/8	6	AB60105	Price
6	.2040	3-5/8	6	AB60106	Price
7	.2010	3-5/8	6	AB60107	Price
8	.1990	3-5/8	6	AB60108	Price
9	.1960	3-5/8	6	AB60109	Price
10	.1935	3-5/8	6	AB60110	Price
11	.1910	3-5/8	6	AB60111	Price
12	.1890	3-5/8	6	AB60112	Price
13	.1850	3-3/8	5-3/4	AB60113	Price
14	.1820	3-3/8	5-3/4	AB60114	Price
15	.1800	3-3/8	5-3/4	AB60115	Price
16	.1770	3-3/8	5-3/4	AB60116	Price
17	.1730	3-3/8	5-3/4	AB60117	Price
18	.1695	3-3/8	5-3/4	AB60118	Price
19	.1660	3-3/8	5-3/4	AB60119	Price
20	.1610	3-3/8	5-3/4	AB60120	Price
21	.1590	3-3/8	5-3/4	AB60121	Price
22	.1570	3-3/8	5-3/4	AB60122	Price
23	.1540	3	5-3/8	AB60123	Price
24	.1520	3	5-3/8	AB60124	Price
25	.1495	3	5-3/8	AB60125	Price
26	.1470	3	5-3/8	AB60126	Price
27	.1440	3	5-3/8	AB60127	Price
28	.1405	3	5-3/8	AB60128	Price
29	.1360	3	5-3/8	AB60129	Price
30	.1285	3	5-3/8	AB60130	Price
31	.1200	2-3/4	5-1/8	AB60131	Price
32	.1160	2-3/4	5-1/8	AB60132	Price
33	.1130	2-3/4	5-1/8	AB60133	Price
34	.1110	2-3/4	5-1/8	AB60134	Price
35	.1100	2-3/4	5-1/8	AB60135	Price
36	.1065	2-1/2	4-5/8	AB60136	Price
37	.1040	2-1/2	4-5/8	AB60137	Price
38	.1015	2-1/2	4-5/8	AB60138	Price
39	.0995	2-1/2	4-5/8	AB60139	Price
40	.0980	2-1/2	4-5/8	AB60140	Price

Aircraft Extension Drills — 6" & 12" Overall Length

High Speed Steel • 135° Split Point • Surface Treated



- Ideal for drilling mild steel where extra length is required
- Manufactured to NAS 907 Type B specifications
- Precision Twist List #500-6 (6" OAL)
- Precision Twist List #500-12 (12" OAL)

			Precision Twist Drill				ProCut			
			6" OAL		12" OAL		6" OAL		12" OAL	
Size (in.)	Decimal Equiv.	Flute Length (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
3/64	.0469	3/4	**PT2458003†**	10.28	**PT2459003†**	19.46	**AT50003†**	4.90	**AT51003†**	7.50
1/16	.0625	7/8	**PT2458004**	Price	**PT2459004**	Price	**AT50004**	Price	**AT51004**	Price
5/64	.0781	1	**PT2458005**	Price	**PT2459005**	Price	**AT50005**	Price	**AT51005**	Price
3/32	.0938	1-1/4	**PT2458006**	Price	**PT2459006**	Price	**AT50006**	Price	**AT51006**	Price
7/64	.1094	1-1/2	**PT2458007**	Price	**PT2459007**	Price	**AT50007**	Price	**AT51007**	Price
1/8	.1250	1-5/8	**PT2458008**	Price	**PT2459008**	Price	**AT50008**	Price	**AT51008**	Price
9/64	.1406	1-3/4	**PT2458009**	Price	**PT2459009**	Price	**AT50009**	Price	**AT51009**	Price
5/32	.1562	2	**PT2458010**	Price	**PT2459010**	Price	**AT50010**	Price	**AT51010**	Price
11/64	.1719	2-1/8	**PT2458011**	Price	**PT2459011**	Price	**AT50011**	Price	**AT51011**	Price
3/16	.1875	2-5/16	**PT2458012**	Price	**PT2459012**	Price	**AT50012**	Price	**AT51012**	Price
13/64	.2031	2-7/16	**PT2458013**	Price	**PT2459013**	Price	**AT50013**	Price	**AT51013**	Price
7/32	.2188	2-1/2	**PT2458014**	Price	**PT2459014**	Price	**AT50014**	Price	**AT51014**	Price
15/64	.2344	2-5/8	**PT2458015**	Price	**PT2459015**	Price	**AT50015**	Price	**AT51015**	Price
1/4	.2500	2-3/4	**PT2458016**	Price	**PT2459016**	Price	**AT50016**	Price	**AT51016**	Price
17/64	.2656	2-7/8	**PT2458017**	Price	**PT2459017**	Price	**AT50017**	Price	**AT51017**	Price
9/32	.2812	2-15/16	**PT2458018**	Price	**PT2459018**	Price	**AT50018**	Price	**AT51018**	Price
19/64	.2969	3-1/16	**PT2458019**	Price	**PT2459019**	Price	**AT50019**	Price	**AT51019**	Price
5/16	.3125	3-3/16	**PT2458020**	Price	**PT2459020**	Price	**AT50020**	Price	**AT51020**	Price
21/64	.3281	3-5/16	**PT2458021**	Price	**PT2459021**	Price	**AT50021**	Price	**AT51021**	Price
11/32	.3438	3-7/16	**PT2458022**	Price	**PT2459022**	Price	**AT50022**	Price	**AT51022**	Price
23/64	.3594	3-1/2	**PT2458023**	Price	**PT2459023**	Price	**AT50023**	Price	**AT51023**	Price
3/8	.3750	3-5/8	**PT2458024**	Price	**PT2459024**	Price	**AT50024**	Price	**AT51024**	Price
25/64	.3906	3-3/4	**PT2458025**	Price	**PT2459025**	Price	**AT50025**	Price	**AT51025**	Price
13/32	.4062	3-7/8	**PT2458026**	Price	**PT2459026**	Price	**AT50026**	Price	**AT51026**	Price
27/64	.4219	3-15/16	**PT2458027**	Price	**PT2459027**	Price	**AT50027**	Price	**AT51027**	Price
7/16	.4375	4-1/16	**PT2458028**	Price	**PT2459028**	Price	**AT50028**	Price	**AT51028**	Price
29/64	.4531	4-3/16	**PT2458029**	Price	**PT2459029**	Price	**AT50029**	Price	**AT51029**	Price
15/32	.4688	4-5/16	**PT2458030**	Price	**PT2459030**	Price	**AT50030**	Price	**AT51030**	Price
31/64	.4844	4-3/8	**PT2458031**	Price	**PT2459031**	Price	**AT50031**	Price	**AT51031**	Price
1/2	.5000	2-3/4	**PT2458032**	Price	**-**	-	**AT50032**	Price	**-**	-
1/2	.5000	4-1/2	**-**	-	**PT2459032**	Price	**-**	-	**AT51032**	Price

†Note: 3/64 NOT split point

Aircraft Extension Drills – 6" & 12" Overall Length
Letter Sizes

High Speed Steel • 135° Split Point • Surface Treated



- All drills manufactured to NAS 907 Type B specifications

			6" OAL		12" OAL	
Size	Decimal Equiv.	Flute Length (in.)	Order No.	Price	Order No.	Price
A	.2340	2-5/8	**AT50201**	Price	**AT51201**	Price
B	.2380	2-3/4	**AT50202**	Price	**AT51202**	Price
C	.2420	2-3/4	**AT50203**	Price	**AT51203**	Price
D	.2460	2-3/4	**AT50204**	Price	**AT51204**	Price
E	.2500	2-3/4	**AT50205**	Price	**AT51205**	Price
F	.2570	2-7/8	**AT50206**	Price	**AT51206**	Price
G	.2610	2-7/8	**AT50207**	Price	**AT51207**	Price
H	.2660	2-7/8	**AT50208**	Price	**AT51208**	Price
I	.2720	2-7/8	**AT50209**	Price	**AT51209**	Price
J	.2770	2-7/8	**AT50210**	Price	**AT51210**	Price
K	.2810	2-15/16	**AT50211**	Price	**AT51211**	Price
L	.2900	2-15/16	**AT50212**	Price	**AT51212**	Price
M	.2950	3-1/16	**AT50213**	Price	**AT51213**	Price
N	.3020	3-1/16	**AT50214**	Price	**AT51214**	Price
O	.3160	3-3/16	**AT50215**	Price	**AT51215**	Price
P	.3230	3-5/16	**AT50216**	Price	**AT51216**	Price
Q	.3320	3-7/16	**AT50217**	Price	**AT51217**	Price
R	.3390	3-7/16	**AT50218**	Price	**AT51218**	Price
S	.3480	3-1/2	**AT50219**	Price	**AT51219**	Price
T	.3580	3-1/2	**AT50220**	Price	**AT51220**	Price
U	.3680	3-5/8	**AT50221**	Price	**AT51221**	Price
V	.3770	3-5/8	**AT50222**	Price	**AT51222**	Price
W	.3860	3-3/4	**AT50223**	Price	**AT51223**	Price
X	.3970	3-3/4	**AT50224**	Price	**AT51224**	Price
Y	.4040	3-7/8	**AT50225**	Price	**AT51225**	Price
Z	.4130	3-7/8	**AT50226**	Price	**AT51226**	Price

Aircraft Extension Drills — 6" & 12" Overall Length

High Speed Steel • 135° Split Point • Surface Treated

- Ideal for drilling mild steel where extra length is required
- Manufactured to NAS 907 Type B specifications
- Precision Twist List #501-6 (6" OAL)
- Precision Twist List #501-12 (12" OAL)

			Precision Twist Drill				ProCut			
			6" OAL		12" OAL		6" OAL		12" OAL	
Size	Decimal Equiv.	Flute Length (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1	.2280	2-5/8	**PT2458101**	Price	**PT2459101**	Price	**AT50101**	Price	**AT51101**	Price
2	.2210	2-5/8	**PT2458102**	Price	**-**	-	**AT50102**	Price	**AT51102**	Price
3	.2130	2-1/2	**PT2458103**	Price	**PT2459103**	Price	**AT50103**	Price	**AT51103**	Price
4	.2090	2-1/2	**PT2458104**	Price	**PT2459104**	Price	**AT50104**	Price	**AT51104**	Price
5	.2055	2-1/2	**PT2458105**	Price	**PT2459105**	Price	**AT50105**	Price	**AT51105**	Price
6	.2040	2-1/2	**PT2458106**	Price	**-**	-	**AT50106**	Price	**AT51106**	Price
7	.2010	2-7/16	**PT2458107**	Price	**PT2459107**	Price	**AT50107**	Price	**AT51107**	Price
8	.1990	2-7/16	**PT2458108**	Price	**-**	-	**AT50108**	Price	**AT51108**	Price
9	.1960	2-7/16	**PT2458109**	Price	**PT2459109**	Price	**AT50109**	Price	**AT51109**	Price
10	.1935	2-7/16	**PT2458110**	Price	**PT2459110**	Price	**AT50110**	Price	**AT51110**	Price
11	.1910	2-5/16	**PT2458111**	Price	**PT2459111**	Price	**AT50111**	Price	**AT51111**	Price
12	.1890	2-5/16	**PT2458112**	Price	**PT2459112**	Price	**AT50112**	Price	**AT51112**	Price
13	.1850	2-5/16	**PT2458113**	Price	**PT2459113**	Price	**AT50113**	Price	**AT51113**	Price
14	.1820	2-3/16	**PT2458114**	Price	**-**	-	**AT50114**	Price	**AT51114**	Price
15	.1800	2-3/16	**PT2458115**	Price	**-**	-	**AT50115**	Price	**AT51115**	Price
16	.1770	2-3/16	**PT2458116**	Price	**PT2459116**	Price	**AT50116**	Price	**AT51116**	Price
17	.1730	2-3/16	**PT2458117**	Price	**PT2459117**	Price	**AT50117**	Price	**AT51117**	Price
18	.1695	2-1/8	**PT2458118**	Price	**PT2459118**	Price	**AT50118**	Price	**AT51118**	Price
19	.1660	2-1/8	**PT2458119**	Price	**PT2459119**	Price	**AT50119**	Price	**AT51119**	Price
20	.1610	2-1/8	**PT2458120**	Price	**PT2459120**	Price	**AT50120**	Price	**AT51120**	Price
21	.1590	2-1/8	**PT2458121**	Price	**PT2459121**	Price	**AT50121**	Price	**AT51121**	Price
22	.1570	2	**PT2458122**	Price	**PT2459122**	Price	**AT50122**	Price	**AT51122**	Price
23	.1540	2	**PT2458123**	Price	**PT2459123**	Price	**AT50123**	Price	**AT51123**	Price
24	.1520	2	**PT2458124**	Price	**-**	-	**AT50124**	Price	**AT51124**	Price
25	.1495	1-7/8	**PT2458125**	Price	**PT2459125**	Price	**AT50125**	Price	**AT51125**	Price
26	.1470	1-7/8	**PT2458126**	Price	**PT2459126**	Price	**AT50126**	Price	**AT51126**	Price
27	.1440	1-7/8	**PT2458127**	Price	**PT2459127**	Price	**AT50127**	Price	**AT51127**	Price
28	.1405	1-3/4	**PT2458128**	Price	**-**	-	**AT50128**	Price	**AT51128**	Price
29	.1360	1-3/4	**PT2458129**	Price	**PT2459129**	Price	**AT50129**	Price	**AT51129**	Price
30	.1285	1-5/8	**PT2458130**	Price	**PT2459130**	Price	**AT50130**	Price	**AT51130**	Price
31	.1200	1-5/8	**PT2458131**	Price	**PT2459131**	Price	**AT50131**	Price	**AT51131**	Price
32	.1160	1-5/8	**PT2458132**	Price	**-**	-	**AT50132**	Price	**AT51132**	Price
33	.1130	1-1/2	**PT2458133**	Price	**-**	-	**AT50133**	Price	**AT51133**	Price
34	.1110	1-1/2	**PT2458134**	Price	**-**	-	**AT50134**	Price	**AT51134**	Price
35	.1100	1-1/2	**PT2458135**	Price	**-**	-	**AT50135**	Price	**AT51135**	Price
36	.1065	1-7/16	**PT2458136**	Price	**PT2459136**	Price	**AT50136**	Price	**AT51136**	Price
37	.1040	1-7/16	**PT2458137**	Price	**PT2459137**	Price	**AT50137**	Price	**AT51137**	Price
38	.1015	1-7/16	**PT2458138**	Price	**PT2459138**	Price	**AT50138**	Price	**AT51138**	Price
39	.0995	1-3/8	**PT2458139**	Price	**PT2459139**	Price	**AT50139**	Price	**AT51139**	Price
40	.0980	1-3/8	**PT2458140**	Price	**PT2459140**	Price	**AT50140**	Price	**AT51140**	Price
41	.0960	1-3/8	**PT2458141**	Price	**PT2459141**	Price	**AT50141**	Price	**AT51141**	Price
42	.0935	1-1/4	**PT2458142**	Price	**PT2459142**	Price	**AT50142**	Price	**AT51142**	Price
43	.0890	1-1/4	**PT2458143**	Price	**PT2459143**	Price	**AT50143**	Price	**AT51143**	Price
44	.0860	1-1/8	**PT2458144**	Price	**PT2459144**	Price	**AT50144**	Price	**AT51144**	Price
45	.0820	1-1/8	**PT2458145**	Price	**PT2459145**	Price	**AT50145**	Price	**AT51145**	Price
46	.0810	1-1/8	**PT2458146**	Price	**PT2459146**	Price	**AT50146**	Price	**AT51146**	Price
47	.0785	1	**PT2458147**	Price	**PT2459147**	Price	**AT50147**	Price	**AT51147**	Price
48	.0760	1	**PT2458148**	Price	**PT2459148**	Price	**AT50148**	Price	**AT51148**	Price
49	.0730	1	**PT2458149**	Price	**PT2459149**	Price	**AT50149**	Price	**AT51149**	Price
50	.0700	1	**PT2458150**	Price	**PT2459150**	Price	**AT50150**	Price	**AT51150**	Price
51	.0670	1	**PT2458151†**	Price	**-**	-	**AT50151†**	Price	**AT51151†**	Price
52	.0635	7/8	**PT2458152†**	Price	**-**	-	**AT50152†**	Price	**AT51152†**	Price
53	.0595	7/8	**PT2458153†**	Price	**-**	-	**AT50153†**	Price	**AT51153†**	Price
54	.0550	7/8	**PT2458154†**	Price	**-**	-	**AT50154†**	Price	**AT51154†**	Price
55	.0520	7/8	**PT2458155†**	Price	**-**	-	**AT50155†**	Price	**AT51155†**	Price
56	.0465	3/4	**PT2458156†**	Price	**-**	-	**AT50156†**	Price	**AT51156†**	Price
57	.0430	3/4	**PT2458157†**	Price	**-**	-	**AT50157†**	Price	**AT51157†**	Price
58	.0420	11/16	**PT2458158†**	Price	**-**	-	**AT50158†**	Price	**AT51158†**	Price
59	.0410	11/16	**PT2458159†**	Price	**-**	-	**AT50159†**	Price	**AT51159†**	Price
60	.0400	11/16	**PT2458160†**	Price	**-**	-	**AT50160†**	Price	**AT51160†**	Price

†Note: #53 thru #60 NOT Split Point

Aircraft Extension Drills — 6" & 12" Overall Length



Cobalt • 135° Split Point

- Ideal for tough, high tensile strength materials
- Manufactured To NAS 907 Type B specifications
- Precision Twist List #CO501-6

- Fractional Size										
			Precision Twist Drill				ProCut			
			6" OAL		12" OAL		Price		12" OAL	
Size	Dec. Equiv.	Flute Length (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/16	.0625	7/8	**PT2553604**	Price	**PT2552604**	Price	**AT55004**	Price	**AT56004**	Price
5/64	.0781	1	**PT2553605**	Price	**PT2552605**	Price	**AT55005**	Price	**AT56005**	Price
3/32	.0938	1-1/4	**PT2553606**	Price	**PT2552606**	Price	**AT55006**	Price	**AT56006**	Price
7/64	.1094	1-1/2	**PT2553607**	Price	**PT2552607**	Price	**AT55007**	Price	**AT56007**	Price
1/8	.1250	1-5/8	**PT2553608**	Price	**PT2552608**	Price	**AT55008**	Price	**AT56008**	Price
9/64	.1406	1-3/4	**PT2553609**	Price	**PT2552609**	Price	**AT55009**	Price	**AT56009**	Price
5/32	.1562	2	**PT2553610**	Price	**PT2552610**	Price	**AT55010**	Price	**AT56010**	Price
11/64	.1719	2-1/8	**PT2553611**	Price	**PT2552611**	Price	**AT55011**	Price	**AT56011**	Price
3/16	.1875	2-5/16	**PT2553612**	Price	**PT2552612**	Price	**AT55012**	Price	**AT56012**	Price
13/64	.2031	2-7/16	**PT2553613**	Price	**PT2552613**	Price	**AT55013**	Price	**AT56013**	Price
7/32	.2188	2-1/2	**PT2553614**	Price	**PT2552614**	Price	**AT55014**	Price	**AT56014**	Price
15/64	.2344	2-5/8	**PT2553615**	Price	**PT2552615**	Price	**AT55015**	Price	**AT56015**	Price
1/4	.2500	2-3/4	**PT2553616**	Price	**PT2552616**	Price	**AT55016**	Price	**AT56016**	Price

- Wire Gage Size								
			Precision Twist Drill		ProCut			
			6" OAL		6" OAL		12" OAL	
Size	Dec. Equiv.	Flute Length (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1	.2280	2-5/8	**PT2553701**	Price	**AT55101**	Price	**AT56101**	Price
2	.2210	2-5/8	**PT2553702**	Price	**AT55102**	Price	**AT56102**	Price
3	.2130	2-1/2	**PT2553703**	Price	**AT55103**	Price	**AT56103**	Price
4	.2090	2-1/2	**PT2553704**	Price	**AT55104**	Price	**AT56104**	Price
5	.2055	2-1/2	**PT2553705**	Price	**AT55105**	Price	**AT56105**	Price
6	.2040	2-1/2	**PT2553706**	Price	**AT55106**	Price	**AT56106**	Price
7	.2010	2-7/16	**PT2553707**	Price	**AT55107**	Price	**AT56107**	Price
8	.1990	2-7/16	**PT2553708**	Price	**AT55108**	Price	**AT56108**	Price
9	.1960	2-7/16	**PT2553709**	Price	**AT55109**	Price	**AT56109**	Price
10	.1935	2-7/16	**PT2553710**	Price	**AT55110**	Price	**AT56110**	Price
11	.1910	2-5/16	**PT2553711**	Price	**AT55111**	Price	**AT56111**	Price
12	.1890	2-5/16	**PT2553712**	Price	**AT55112**	Price	**AT56112**	Price
13	.1850	2-5/16	**PT2553713**	Price	**AT55113**	Price	**AT56113**	Price
14	.1820	2-3/16	**PT2553714**	Price	**AT55114**	Price	**AT56114**	Price
15	.1800	2-3/16	**PT2553715**	Price	**AT55115**	Price	-	-
16	.1770	2-3/16	**PT2553716**	Price	-	-	**AT56116**	Price
17	.1730	2-3/16	**PT2553717**	Price	**AT55117**	Price	**AT56117**	Price
18	.1695	2-1/8	**PT2553718**	Price	**AT55118**	Price	**AT56118**	Price
19	.1660	2-1/8	**PT2553719**	Price	**AT55119**	Price	**AT56119**	Price
20	.1610	2-1/8	**PT2553720**	Price	**AT55120**	Price	**AT56120**	Price
21	.1590	2-1/8	**PT2553721**	Price	**AT55121**	Price	**AT56121**	Price
22	.1570	2	**PT2553722**	Price	**AT55122**	Price	**AT56122**	Price
23	.1540	2	**PT2553723**	Price	**AT55123**	Price	**AT56123**	Price
24	.1520	2	**PT2553724**	Price	**AT55124**	Price	**AT56124**	Price
25	.1495	1-7/8	**PT2553725**	Price	**AT55125**	Price	**AT56125**	Price
26	.1470	1-7/8	**PT2553726**	Price	**AT55126**	Price	**AT56126**	Price
27	.1440	1-7/8	**PT2553727**	Price	**AT55127**	Price	**AT56127**	Price
28	.1405	1-3/4	**PT2553728**	Price	**AT55128**	Price	**AT56128**	Price
29	.1360	1-3/4	**PT2553729**	Price	**AT55129**	Price	**AT56129**	Price
30	.1285	1-5/8	**PT2553730**	Price	**AT55130**	Price	**AT56130**	Price
31	.1200	1-5/8	**PT2553731**	Price	**AT55131**	Price	**AT56131**	Price
32	.1160	1-5/8	**PT2553732**	Price	**AT55132**	Price	**AT56132**	Price
33	.1130	1-1/2	**PT2553733**	Price	**AT55133**	Price	**AT56133**	Price
34	.1110	1-1/2	**PT2553734**	Price	**AT55134**	Price	**AT56134**	Price
35	.1100	1-1/2	**PT2553735**	Price	**AT55135**	Price	**AT56135**	Price
36	.1065	1-7/16	**PT2553736**	Price	**AT55136**	Price	**AT56136**	Price
37	.1040	1-7/16	**PT2553737**	Price	**AT55137**	Price	**AT56137**	Price
38	.1015	1-7/16	**PT2553738**	Price	**AT55138**	Price	**AT56138**	Price
39	.0995	1-3/8	**PT2553739**	Price	**AT55139**	Price	**AT56139**	Price
40	.0980	1-3/8	**PT2553740**	Price	**AT55140**	Price	**AT56140**	Price
41	.0960	1-3/8	**PT2553741**	Price	**AT55141**	Price	**AT56141**	Price
42	.0935	1-1/4	**PT2553742**	Price	**AT55142**	Price	**AT56142**	Price
43	.0890	1-1/4	**PT2553743**	Price	**AT55143**	Price	**AT56143**	Price
44	.0860	1-1/8	**PT2553744**	Price	**AT55144**	Price	**AT56144**	Price
45	.0820	1-1/8	**PT2553745**	Price	**AT55145**	Price	**AT56145**	Price
46	.0810	1-1/8	**PT2553746**	Price	**AT55146**	Price	**AT56146**	Price
47	.0785	1	**PT2553747**	Price	-	-	-	-
48	.0760	1	**PT2553748**	Price	**AT55148**	Price	**AT56148**	Price
49	.0730	1	**PT2553749**	Price	**AT55149**	Price	**AT56149**	Price
50	.0700	1	**PT2553750**	Price	**AT55150**	Price	**AT56150**	Price

1/2" Shank Silver & Deming Drills

High Speed Steel • 118° Standard Point

- 3-1/8" Flute length
- 6" Overall length



	Morse Cutting Tools				Rapidkut		Precision Twist Drill				ProCut	
	Style 1424R - Round Shank		Style 1424S - Shanks w/3 Flats-Split Point		Made in USA - Round Shank		Style R57 - Shanks w/3 Flats		Style R56 - Round Shank		Industrial Quality - Round Shank	
Size (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
33/64	MT5717031	Price	MT5719031	Price	AK50033	Price	PT19091533	Price	PT1991433	Price	AK55033	Price
17/32	MT5717032	Price	MT5719032	Price	AK50034	Price	PT19091534	Price	PT1991434	Price	AK55034	Price
35/64	MT5717033	Price	MT5719033	Price	AK50035	Price	PT19091535	Price	PT1991435	Price	AK55035	Price
9/16	MT5717034	Price	MT5719034	Price	AK50036	Price	PT19091536	Price	PT1991436	Price	AK55036	Price
37/64	MT5717035	Price	MT5719035	Price	AK50037	Price	PT19091537	Price	PT1991437	Price	AK55037	Price
19/32	MT5717036	Price	MT5719036	Price	AK50038	Price	PT19091538	Price	PT1991438	Price	AK55038	Price
39/64	MT5717037	Price	MT5719037	Price	AK50039	Price	PT19091539	Price	PT1991439	Price	AK55039	Price
5/8	MT5717038	Price	MT5719038	Price	AK50040	Price	PT19091540	Price	PT1991440	Price	AK55040	Price
41/64	MT5717039	Price	MT5719039	Price	AK50041	Price	PT19091541	Price	PT1991441	Price	AK55041	Price
21/32	MT5717040	Price	MT5719040	Price	AK50042	Price	PT19091542	Price	PT1991442	Price	AK55042	Price
43/64	MT5717041	Price	MT5719041	Price	AK50043	Price	PT19091543	Price	PT1991443	Price	AK55043	Price
11/16	MT5717042	Price	MT5719042	Price	AK50044	Price	PT19091544	Price	PT1991444	Price	AK55044	Price
45/64	MT5717043	Price	MT5719043	Price	AK50045	Price	PT19091545	Price	PT1991445	Price	AK55045	Price
23/32	MT5717044	Price	MT5719044	Price	AK50046	Price	PT19091546	Price	PT1991446	Price	AK55046	Price
47/64	MT5717045	Price	MT5719045	Price	AK50047	Price	PT19091547	Price	PT1991447	Price	AK55047	Price
3/4	MT5717046	Price	MT5719046	Price	AK50048	Price	PT19091548	Price	PT1991448	Price	AK55048	Price
49/64	MT5717047	Price	MT5719047	Price	AK50049	Price	PT19091549	Price	PT1991449	Price	AK55049	Price
25/32	MT5717048	Price	MT5719048	Price	AK50050	Price	PT19091550	Price	PT1991450	Price	AK55050	Price
51/64	MT5717049	Price	MT5719049	Price	AK50051	Price	PT19091551	Price	PT1991451	Price	AK55051	Price
13/16	MT5717050	Price	MT5719050	Price	AK50052	Price	PT19091552	Price	PT1991452	Price	AK55052	Price
53/64	MT5717051	Price	MT5719051	Price	AK50053	Price	PT19091553	Price	PT1991453	Price	AK55053	Price
27/32	MT5717052	Price	MT5719052	Price	AK50054	Price	PT19091554	Price	PT1991454	Price	AK55054	Price
55/64	MT5717053	Price	MT5719053	Price	AK50055	Price	PT19091555	Price	PT1991455	Price	AK55055	Price
7/8	MT5717054	Price	MT5719054	Price	AK50056	Price	PT19091556	Price	PT1991456	Price	AK55056	Price
57/64	MT5717055	Price	MT5719055	Price	AK50057	Price	PT19091557	Price	PT1991457	Price	AK55057	Price
29/32	MT5717056	Price	MT5719056	Price	AK50058	Price	PT19091558	Price	PT1991458	Price	AK55058	Price
59/64	MT5717057	Price	MT5719057	Price	AK50059	Price	PT19091559	Price	PT1991459	Price	AK55059	Price
15/16	MT5717058	Price	MT5719058	Price	AK50060	Price	PT19091560	Price	PT1991460	Price	AK55060	Price
61/64	MT5717059	Price	MT5719059	Price	AK50061	Price	PT19091561	Price	PT1991461	Price	AK55061	Price
31/32	MT5717060	Price	MT5719060	Price	AK50062	Price	PT19091562	Price	PT1991462	Price	AK55062	Price
63/64	MT5717061	Price	MT5719061	Price	AK50063	Price	PT19091563	Price	PT1991463	Price	AK55063	Price
1	MT5717062	Price	MT5719062	Price	AK50100	Price	PT19091564	Price	PT1991464	Price	AK55100	Price
1-1/64	MT5717063	Price	MT5719063	Price	AK50101	Price	PT19091565	Price	PT1991465	Price	AK55101	Price
1-1/32	MT5717064	Price	MT5719064	Price	AK50102	Price	PT19091586	Price	PT1991486	Price	AK55102	Price
1-3/64	MT5717065	Price	-	-	AK50103	Price	PT19091567	Price	PT1991467	Price	AK55103	Price
1-1/16	MT5717066	Price	MT5719065	Price	AK50104	Price	PT19091568	Price	PT1991468	Price	AK55104	Price
1-5/64	MT5717067	Price	-	-	AK50105	Price	PT19091569	Price	PT1991469	Price	AK55105	Price
1-3/32	MT5717068	Price	MT5719066	Price	AK50106	Price	PT19091570	Price	PT1991470	Price	AK55106	Price
1-7/64	MT5717069	Price	-	-	AK50107	Price	PT19091571	Price	PT1991471	Price	AK55107	Price
1-1/8	MT5717070	Price	MT5719067	Price	AK50108	Price	PT19091572	Price	PT1991472	Price	AK55108	Price
1-9/64	MT5717071	Price	-	-	AK50109	Price	PT19091573	Price	PT1991473	Price	AK55109	Price
1-5/32	MT5717072	Price	MT5719068	Price	AK50110	Price	PT19091587	Price	PT1991487	Price	AK55110	Price
1-11/64	MT5717073	Price	-	-	AK50111	Price	PT19091575	Price	PT1991474	Price	AK55111	Price
1-3/16	MT5717074	Price	MT5719069	Price	AK50112	Price	PT19091576	Price	PT1991476	Price	AK55112	Price
1-13/64	MT5717075	Price	-	-	-	-	PT19091577	Price	PT1991475	Price	AK55113	Price
1-7/32	MT5717076	Price	MT5719070	Price	AK50114	Price	PT19091588	Price	PT1991488	Price	AK55114	Price
1-15/64	MT5717077	Price	-	-	AK50115	Price	PT19091579	Price	PT1991477	Price	AK55115	Price
1-1/4	MT5717078	Price	MT5719071	Price	AK50116	Price	PT19091580	Price	PT1991480	Price	AK55116	Price
1-17/64	MT5717079	Price	-	-	AK50117	Price	-	-	-	-	AK55117	Price
1-9/32	MT5717080	Price	-	-	AK50118	Price	PT19091589	Price	PT1991479	Price	AK55118	Price
1-19/64	MT5717081	Price	-	-	AK50119	Price	-	-	-	-	AK55119	Price
1-5/16	MT5717082	Price	MT5719072	Price	AK50120	Price	PT19091582	Price	PT1991482	Price	AK55120	Price
1-21/64	MT5717083	Price	-	-	AK50121	Price	-	-	-	-	AK55121	Price
1-11/32	MT5717084	Price	-	-	AK50122	Price	PT19091592	Price	PT1991497	Price	AK55122	Price
1-23/64	MT5717085	Price	-	-	AK50123	Price	-	-	-	-	AK55123	Price
1-3/8	MT5717086	Price	MT5719073	Price	AK50124	Price	PT19091583	Price	PT1991483	Price	AK55124	Price
1-25/64	MT5717087	Price	-	-	-	-	-	-	-	-	AK55125	Price
1-13/32	MT5717088	Price	-	-	AK50126	Price	PT19091595	Price	PT1991492	Price	AK55126	Price
1-27/64	MT5717089	Price	-	-	AK50127	Price	-	-	-	-	AK55127	Price
1-7/16	MT5717090	Price	MT5719074	Price	AK50128	Price	PT19091584	Price	PT1991484	Price	AK55128	Price
1-29/64	MT5717091	Price	-	-	-	-	-	-	-	-	AK55129	Price
1-15/32	MT5717092	Price	-	-	-	-	PT19091598	Price	PT1991495	Price	AK55130	Price
1-31/64	MT5717093	Price	-	-	AK50131	Price	-	-	-	-	AK55131	Price
1-1/2	MT5717094	Price	MT5719075	Price	AK50132	Price	PT19091585	Price	PT1991485	Price	AK55132	Price

1/2" Shank Silver & Deming Drills

Cobalt Heavy Duty • 118° Standard Point

- 3" Flute length
- 6" Overall length
- Precision Twist List #R56CO



RAPIDKUT | PRODUCT

	Rapidkut		Precision Twist Drill		ProCut	
	Cobalt		Cobalt		Cobalt	
Size (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/2	**AK40032**	Price	-	-	-	-
33/64	**AK40033**	Price	**PT2092333†**	Price	**AK70033**	Price
17/32	**AK40034**	Price	**PT2092334†**	Price	**AK70034**	Price
35/64	**AK40035**	Price	**PT2092335†**	Price	**AK70035**	Price
9/16	**AK40036**	Price	**PT2092336†**	Price	**AK70036**	Price
37/64	**AK40037**	Price	**PT2092337†**	Price	**AK70037**	Price
19/32	**AK40038**	Price	**PT2092338†**	Price	**AK70038**	Price
39/64	**AK40039**	Price	**PT2092339†**	Price	**AK70039**	Price
5/8	**AK40040**	Price	**PT2092340†**	Price	**AK70040**	Price
41/64	**AK40041**	Price	**PT2092341†**	Price	**AK70041**	Price
21/32	**AK40042**	Price	**PT2092342†**	Price	**AK70042**	Price
43/64	**AK40043**	Price	**PT2092343†**	Price	**AK70043**	Price
11/16	**AK40044**	Price	**PT2092344†**	Price	**AK70044**	Price
45/64	**AK40045**	Price	**PT2092345†**	Price	**AK70045**	Price
23/32	**AK40046**	Price	**PT2092346†**	Price	**AK70046**	Price
47/64	**AK40047**	Price	**PT2092347†**	Price	**AK70047**	Price
3/4	**AK40048**	Price	**PT2092348†**	Price	**AK70048**	Price
49/64	**AK40049**	Price	**PT2092349†**	Price	**AK70049**	Price
25/32	**AK40050**	Price	**PT2092350†**	Price	**AK70050**	Price
51/64	**AK40051**	Price	**PT2092351†**	Price	**AK70051**	Price
13/16	**AK40052**	Price	**PT2092352†**	Price	**AK70052**	Price
53/64	**AK40053**	Price	**PT2092353†**	Price	**AK70053**	Price
27/32	**AK40054**	Price	**PT2092354†**	Price	**AK70054**	Price
55/64	**AK40055**	Price	**PT2092355†**	Price	**AK70055**	Price
7/8	**AK40056**	Price	**PT2092356†**	Price	**AK70056**	Price
57/64	**AK40057**	Price	**PT2092357†**	Price	**AK70057**	Price
29/32	**AK40058**	Price	**PT2092358†**	Price	**AK70058**	Price
59/64	**AK40059**	Price	**PT2092359†**	Price	**AK70059**	Price
15/16	**AK40060**	Price	**PT2092360†**	Price	**AK70060**	Price
61/64	**AK40061**	Price	**PT2092361†**	Price	**AK70061**	Price
31/32	**AK40062**	Price	**PT2092362†**	Price	**AK70062**	Price
63/64	**AK40063**	Price	**PT2092363†**	Price	**AK70063**	Price
1	**AK40064**	Price	**PT2092364†**	Price	**AK70100**	Price
1-1/64	-	-	-	-	**AK70101**	Price
1-1/32	-	-	-	-	**AK70102**	Price
1-1/16	**AK40104**	Price	-	-	**AK70104**	Price
1-3/32	-	-	-	-	**AK70106**	Price
1-1/8	**AK40108**	Price	-	-	**AK70108**	Price
1-5/32	-	-	-	-	**AK70110**	Price
1-3/16	**AK40112**	Price	-	-	**AK70112**	Price
1-7/32	-	-	-	-	**AK70114**	Price
1-1/4	**AK40116**	Price	-	-	**AK70116**	Price
1-5/16	-	-	-	-	**AK70120**	Price
1-3/8	**AK40124**	Price	-	-	**AK70124**	Price
1-7/16	-	-	-	-	**AK70128**	Price
1-1/2	**AK40132**	Price	-	-	**AK70132**	Price

† 118° Self-Centering Split Point

1/2" Shank Metric Silver & Deming Drills

High Speed Steel • 118° Standard Point

- 3" Flute length
- 6" Overall length
- Available with a round shank or 3-flatted shank
- High speed steel
- Made in the USA





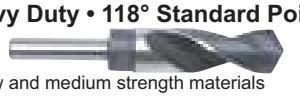
RAPIDKUT | PRODUCT

		Round Shank		3 Flats Shank		Round Shank	
Size	Decimal Equiv.	Order No.	Price	Order No.	Price	Order No.	Price
13mm	.5120	**AK661300**	Price	**AK673F1300**	Price	**AK651300**	Price
13.5mm	.5320	**AK661350**	Price	**AK673F1350**	Price	-	-
14mm	.5510	**AK661400**	Price	**AK673F1400**	Price	**AK651400**	Price
14.5mm	.5710	**AK661450**	Price	**AK673F1450**	Price	-	-
15mm	.5910	**AK661500**	Price	**AK673F1500**	Price	**AK651500**	Price
15.5mm	.6100	**AK661550**	Price	**AK673F1550**	Price	**AK651550**	Price
16mm	.6300	**AK661600**	Price	**AK673F1600**	Price	**AK651600**	Price
16.5mm	.6500	**AK661650**	Price	**AK673F1650**	Price	**AK651650**	Price
17mm	.6990	**AK661700**	Price	**AK673F1700**	Price	**AK651700**	Price
17.5mm	.6890	**AK661750**	Price	**AK673F1750**	Price	**AK651750**	Price
18mm	.7810	**AK661800**	Price	**AK673F1800**	Price	**AK651800**	Price
18.5mm	.7280	**AK661850**	Price	**AK673F1850**	Price	**AK651850**	Price
19mm	.7480	**AK661900**	Price	**AK673F1900**	Price	-	-
19.5mm	.7680	**AK661950**	Price	**AK673F1950**	Price	-	-
20mm	.7870	**AK662000**	Price	**AK673F2000**	Price	-	-
21mm	.8270	**AK662100**	Price	**AK673F2100**	Price	**AK652100**	Price
22mm	.8660	**AK662200**	Price	**AK673F2200**	Price	**AK652200**	Price
23mm	.9060	**AK662300**	Price	**AK673F2300**	Price	**AK652300**	Price
23.5mm	.9252	**AK662350**	Price	-	-	-	-
24mm	.9450	**AK662400**	Price	**AK673F2400**	Price	**AK652400**	Price
24.5mm	.9646	**AK662450**	Price	-	-	-	-
25mm	.9740	**AK662500**	Price	**AK673F2500**	Price	-	-

PRODUCT 3/4" Shank Drills

High Speed Steel & Cobalt Heavy Duty • 118° Standard Point

- 3" Flute length
- 6" Overall length
- High speed steel is good for drilling in low and medium strength materials
- Cobalt is good for drilling in tough, high tensile strength materials
- Designed for use on for Bridgeports, boring mill and screw machine operations



	Cobalt		High Speed Steel	
Size (in.)	Order No.	Price	Order No.	Price
25/32	**AK75050**	Price	**AK54050**	Price
13/16	**AK75052**	Price	**AK54052**	Price
27/32	**AK75054**	Price	**AK54054**	Price
7/8	**AK75056**	Price	**AK54056**	Price
29/32	**AK75058**	Price	**AK54058**	Price
15/16	**AK75060**	Price	**AK54060**	Price
31/32	**AK75062**	Price	**AK54062**	Price
1	**AK75100**	Price	**AK54100**	Price
1-1/32	**AK75102**	Price	**AK54102**	Price
1-1/16	**AK75104**	Price	**AK54104**	Price
1-3/32	**AK75106**	Price	**AK54106**	Price
1-1/8	**AK75108**	Price	**AK54108**	Price
1-5/32	**AK75110**	Price	**AK54110**	Price
1-3/16	**AK75112**	Price	**AK54112**	Price
1-1/4	**AK75116**	Price	**AK54116**	Price
1-9/32	**AK75118**	Price	**AK54118**	Price
1-5/16	**AK75120**	Price	**AK54120**	Price
1-11/32	**AK75122**	Price	**AK54122**	Price
1-3/8	**AK75124**	Price	**AK54124**	Price
1-13/32	**AK75126**	Price	-	-
1-7/16	**AK75128**	Price	**AK54128**	Price
1-15/32	-	-	**AK54130**	Price
1-1/2	**AK75132**	Price	**AK54132**	Price
1-17/32	**AK75134**	Price	**AK54134**	Price
1-9/16	**AK75136**	Price	**AK54136**	Price
1-19/32	-	-	**AK54138**	Price
1-5/8	**AK75140**	Price	**AK54140**	Price
1-21/32	-	-	**AK54142**	Price
1-11/16	**AK75144**	Price	**AK54144**	Price
1-23/32	-	-	**AK54146**	Price
1-3/4	**AK75148**	Price	**AK54148**	Price
1-25/32	-	-	**AK54150**	Price
1-13/16	-	-	**AK54152**	Price
1-27/32	-	-	**AK54154**	Price
1-7/8	**AK75156**	Price	**AK54156**	Price
1-15/16	**AK75160**	Price	**AK54160**	Price
1-31/32	-	-	**AK54162**	Price
2	**AK75200**	Price	**AK54200**	Price

HSS MORSE GP Ambore™ Mechanic Length Drills

High Speed Steel • 135° Split Point • 3/8" Reduced Shank

- Gold and black finish
- Shorter length — in-between a jobber and screw machine length
- 3/8" Reduced shank on sizes over 13/32"
- 135° Self-centering split point eliminates "walking" and reduces thrust
- 3/16" And above feature 3-flats on shank
- Morse List #1383



Size (in.)	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	.0625	7/8	1-7/8	**MT0715303**	Price
5/64	.0781	1	2	**MT0715304**	Price
3/32	.0938	1-1/4	2-1/4	**MT0715305**	Price
7/64	.1094	1-5/16	2-3/8	**MT0715306**	Price
1/8	.1250	1-7/16	2-1/2	**MT0715307**	Price
9/64	.1406	1-9/16	2-5/8	**MT0715308**	Price
5/32	.1562	1-11/16	2-3/4	**MT0715309**	Price
11/64	.1719	1-13/16	2-7/8	**MT0715310**	Price
3/16	.1875	1-7/8	3	**MT0715311**	Price
13/64	.2031	1-15/16	3-1/8	**MT0715312**	Price
7/32	.2188	2	3-1/4	**MT0715313**	Price
15/64	.2344	2-1/16	3-3/8	**MT0715314**	Price
1/4	.2500	2	3-1/2	**MT0715315**	Price
17/64	.2656	2-1/8	3-5/8	**MT0715316**	Price
9/32	.2812	2-1/4	3-3/4	**MT0715317**	Price
19/64	.2969	2-3/8	3-7/8	**MT0715318**	Price
5/16	.3125	2-1/2	4	**MT0715319**	Price
21/64	.3281	2-9/16	4-1/16	**MT0715320**	Price
11/32	.3438	2-5/8	4-1/8	**MT0715321**	Price
23/64	.3594	2-11/16	4-3/16	**MT0715322**	Price
3/8	.3750	2-11/16	4-1/4	**MT0715323**	Price
25/64	.3906	2-3/4	4-5/16	**MT0715324**	Price
13/32	.4062	2-13/16	4-3/8	**MT0715325**	Price
27/64	.4219	2-7/8	4-7/16	**MT0715326**	Price
7/16	.4375	2-15/16	4-1/2	**MT0715327**	Price
29/64	.4531	3	4-5/8	**MT0715328**	Price
15/32	.4688	3-1/8	4-3/4	**MT0715329**	Price
31/64	.4844	3-1/4	4-7/8	**MT0715330**	Price
1/2	.5000	3-3/8	5	**MT0715331**	Price

8 Pc. 1/2" Reduced Shank Drill Sets

Each set includes: 9/16”, 5/8”, 11/16”, 3/4”, 13/16”, 7/8”, 15/16” & 1”



Brand	Case Type	Material	Order No.	Price
RAPIDKUT	Folding Plastic Case	Cobalt	**AK40C08CO**	Price
	Folding Plastic Case	High Speed Steel	**AK50S07HS**	Price
HSS M GP	Metal Index	High Speed Steel	**MT1218109**	Price
	Metal Index	High Speed Steel	**MT1218110†**	Price
	Folding Plastic Case	Cobalt	**PT2790328**	Price
	Plastic Case	High Speed Steel	**PT2790556**	Price
PROCUT	Wooden Case	High Speed Steel	**AK81008**	Price
	Wooden Case	Cobalt	**AK81SET8CO**	Price

† 3-Flat shanks - split point

13 Pc. 1/2" Reduced Shank Drill Sets

Each set includes: 17/32”, 9/16”, 19/32”, 5/8”, 21/32”, 11/16”, 23/32”, 3/4”, 13/16”, 7/8”, 15/16”, 31/32” & 1”



Brand	Case	Set Material	Order No.	Price
PROCUT	Wooden Stand	Cobalt	**AK50S13CO**	Price
	Wooden Stand	High Speed Steel	**AK81013**	Price
RAPIDKUT	Wooden Stand	High Speed Steel	**AK50S13HS**	Price

PROCUT 5 Pc. 3/4" Reduced Shank Drill Set

- High speed steel
- Silver & Deming
- Set includes: 1”, 1-1/8”, 1-1/4”, 1-3/8” & 1-1/2”, in wooden stand



Order No.	Price
AK81S05	Price

32 Pc. 1/2" Reduced Shank Drill Sets

- Sets include sizes: 33/64” - 1” x 64ths
- Sets include wooden stand



Brand	Set Material	Order No.	Price
RAPIDKUT	Cobalt	**AK50C32C0**	Price
PROCUT	Cobalt	**AK50S32CO**	Price
RAPIDKUT	High Speed Steel	**AK50S32HS**	Price
PROCUT	High Speed Steel	**AK81032**	Price

33 Pc. 1/2" Reduced Shank Drill Sets

Sets includes sizes: 1/2” - 1” x 64ths



Brand	Case	Set Material	Order No.	Price
HSS M GP	Metal Index	High Speed Steel	**MT1218111†**	Price
	Metal Index	High Speed Steel	**MT1218112**	Price
	Plastic Stand	High Speed Steel	**PT2790231**	Price

† 3-Flat shanks - split point

PROCUT 5 Pc. 1/2" Reduced Shank Drill Set

- Cobalt
- Silver & Deming
- Set includes: 9/16”, 5/8”, 3/4”, 7/8” & 1”, in wooden case



Order No.	Price
AK81SET5CO	Price

PROCUT 8 Pc. "Big Boy" 1/2" Reduced Shank Drill Set

- High speed steel
- Silver & Deming
- Set includes: 1-1/16”, 1-1/8”, 1-3/16”, 1-1/4”, 1-5/16”, 1-3/8”, 1-7/16” & 1-1/2”, in wooden stand



Order No.	Price
AK81S08	Price

3/8" Shank Jobber Drills

High Speed Steel

- Extend the range of 3/8" chuck tools
- Ground from solid M-2



Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
25/64	2-3/4	5-1/4	**AK60025**	Price
13/32	3-1/4	5-1/4	**AK60026**	Price
27/64	3-1/2	5-1/2	**AK60027**	Price
7/16	3-1/2	5-1/2	**AK60028**	Price
29/64	3-1/2	5-1/2	**AK60029**	Price
15/32	3-1/2	5-1/2	**AK60030**	Price
31/64	3-1/2	5-3/4	**AK60031**	Price
1/2	4	6	**AK60032**	Price

Straight Shank Drills — 8" and 10" Overall Length

High Speed Steel • 118° Point

- For general purpose drilling in applications where extra reach is required
- See index for extra long taper shank drills
- Precision Twist List #0860



	Precision Twist Drill		ProCut			
	8" OAL		8" OAL		10" OAL	
	6" Flute Length		6" Flute Length		8" Flute Length	
Size (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/8	**PT2357408**	Price	**AM50008**	Price	**AM51008**	Price
9/64	**-**	-	**AM50009**	Price	**AM51009**	Price
5/32	**PT2357410**	Price	**AM50010**	Price	**AM51010**	Price
11/64	**-**	-	**AM50011**	Price	**AM51011**	Price
3/16	**PT2357412**	Price	**AM50012**	Price	**AM51012**	Price
13/64	**-**	-	**AM50013**	Price	**AM51013**	Price
7/32	**PT2357414**	Price	**AM50014**	Price	**AM51014**	Price
15/64	**-**	-	**AM50015**	Price	**AM51015**	Price
1/4	**PT2357416**	Price	**AM50016**	Price	**AM51016**	Price
17/64	**-**	-	**AM50017**	Price	**AM51017**	Price
9/32	**PT2357418**	Price	**AM50018**	Price	**AM51018**	Price
19/64	**-**	-	**AM50019**	Price	**AM51019**	Price
5/16	**PT2357420**	Price	**AM50020**	Price	**AM51020**	Price
21/64	**-**	-	**AM50021**	Price	**AM51021**	Price
11/32	**PT2357422**	Price	**AM50022**	Price	**AM51022**	Price
23/64	**-**	-	**AM50023**	Price	**AM51023**	Price
3/8	**PT2357424**	Price	**AM50024**	Price	**AM51024**	Price
25/64	**-**	-	**AM50025**	Price	**AM51025**	Price
13/32	**PT2357426**	Price	**AM50026**	Price	**AM51026**	Price
27/64	**-**	-	**AM50027**	Price	**AM51027**	Price
7/16	**PT2357428**	Price	**AM50028**	Price	**AM51028**	Price
29/64	**-**	-	**AM50029**	Price	**AM51029**	Price
15/32	**PT2357430**	Price	**AM50030**	Price	**AM51030**	Price
31/64	**-**	-	**AM50031**	Price	**AM51031**	Price
1/2	**PT2357432**	Price	**AM50032**	Price	**AM51032**	Price

Double End Body Drills

High Speed Steel

- For drilling auto bodies or any thin sheet metal
- 135° Split point
- Self centering



Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
7/64	1/2	1-7/8	**AC62D007**	Price
1/8	1/2	2	**AC62D008**	Price
3/16	1/2	2-3/16	**AC62D012**	Price
# 20	1/2	2-1/8	**AC62D120**	Price
# 30	1/2	2	**AC62D130**	Price

Extra Long Straight Shank Drill Sets

High Speed Steel • 118° Standard Point

- 8", 12" & 18" Overall length
- Supplied in drill stand



Set Range	No. of Drills	Order No.	Price
1/8" - 1/2" by 64ths (OAL - 8")	25	**AP50XL20**	Price
1/8" - 1/2" by 64ths (OAL - 12")	25	**AP50XL25**	Price

Need a special length? We stock many additional lengths not shown – 6", 9", 14", 16" overall lengths. Call with your inquiry!

Extra Long Straight Shank Drills

24" Overall Length, 18" Flute Length

Size (in.)	Order No.	Price
5/16	**AM54020**	Price
3/8	**AM54024**	Price
7/16	**AM54028**	Price
1/2	**AM54032**	Price
9/16	**AM54036**	Price
5/8	**AM54040**	Price
3/4	**AM54048**	Price
1	**AM54100**	Price

Extra Long Straight Shank Drills — 12", 15" & 18" Overall Lengths

High Speed Steel • 118° Standard Point

- For general purpose drilling in applications where extra reach is required
- See index for extra long taper shank drills
- Precision Twist List #1290 (12" OAL) - 1511 (15" OAL) - 1813 (18" OAL)



	Precision Twist Drill						ProCut					
	12" OAL		15" OAL		18" OAL		12" OAL		15" OAL		18" OAL	
	9" Flute Length		11" Flute Length		13" Flute Length		9" Flute Length		11" Flute Length		13" Flute Length	
Size (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	PT2359608	Price	-	-	-	-	AM52008	Price	AM58008	Price	AM53008	Price
9/64	PT2359609	Price	-	-	-	-	AM52009	Price	-	-	-	-
5/32	PT2359610	Price	-	-	-	-	AM52010	Price	-	-	AM53010	Price
11/64	PT2359611	Price	-	-	-	-	AM52011	Price	-	-	-	-
3/16	PT2359612	Price	PT2359512	Price	-	-	AM52012	Price	AM58012	Price	AM53012	Price
13/64	PT2359613	Price	-	-	-	-	AM52013	Price	-	-	AM53013	Price
7/32	PT2359614	Price	-	-	-	-	AM52014	Price	-	-	AM53014	Price
15/64	PT2359615	Price	-	-	-	-	AM52015	Price	-	-	AM53015	Price
1/4	PT2359616	Price	PT2359516	Price	PT2359716	Price	AM52016	Price	AM58016	Price	AM53016	Price
17/64	PT2359617	Price	-	-	PT2359717	Price	AM52017	Price	-	-	AM53017	Price
9/32	PT2359618	Price	-	-	PT2359718	Price	AM52018	Price	-	-	AM53018	Price
19/64	PT2359619	Price	-	-	PT2359719	Price	AM52019	Price	AM58019	Price	AM53019	Price
5/16	PT2359620	Price	PT2359520	Price	PT2359720	Price	AM52020	Price	-	-	AM53020	Price
21/64	PT2359621	Price	-	-	PT2359721	Price	AM52021	Price	-	-	AM53021	Price
11/32	PT2359622	Price	PT2359522	Price	PT2359722	Price	AM52022	Price	AM58022	Price	AM53022	Price
23/64	PT2359623	Price	-	-	PT2359723	Price	AM52023	Price	-	-	AM53023	Price
3/8	PT2359624	Price	PT2359524	Price	PT2359724	Price	AM52024	Price	-	-	AM53024	Price
25/64	PT2359625	Price	-	-	PT2359725	Price	AM52025	Price	-	-	AM53025	Price
13/32	PT2359626	Price	-	-	PT2359726	Price	AM52026	Price	AM58026	Price	AM53026	Price
27/64	PT2359627	Price	-	-	PT2359727	Price	AM52027	Price	AM58027	Price	AM53027	Price
7/16	PT2359628	Price	PT2359528	Price	PT2359728	Price	AM52028	Price	AM58028	Price	AM53028	Price
29/64	PT2359629	Price	-	-	PT2359729	Price	AM52029	Price	-	-	AM53029	Price
15/32	PT2359630	Price	-	-	PT2359730	Price	AM52030	Price	AM58030	Price	AM53030	Price
31/64	PT2359631	Price	-	-	PT2359731	Price	AM52031	Price	-	-	AM53031	Price
1/2	PT2359632	Price	PT2359532	Price	PT2359732	Price	AM52032	Price	AM58032	Price	AM53032	Price
33/64	PT2359633	Price	-	-	PT2359733	Price	AM52033	Price	AM58033	Price	AM53033	Price
17/32	PT2359634	Price	PT2359534	Price	PT2359734	Price	AM52034	Price	-	-	AM53034	Price
35/64	PT2359635	Price	-	-	PT2359735	Price	AM52035	Price	-	-	AM53035	Price
9/16	PT2359636	Price	PT2359536	Price	PT2359736	Price	AM52036	Price	AM58036	Price	AM53036	Price
37/64	PT2359637	Price	-	-	PT2359737	Price	AM52037	Price	-	-	AM53037	Price
19/32	PT2359638	Price	-	-	PT2359738	Price	AM52038	Price	-	-	AM53038	Price
39/64	PT2359639	Price	-	-	PT2359739	Price	AM52039	Price	-	-	AM53039	Price
5/8	PT2359640	Price	PT2359540	Price	PT2359740	Price	AM52040	Price	AM58040	Price	AM53040	Price
41/64	-	-	-	-	-	-	AM52041	Price	-	-	-	-
21/32	PT2359642	Price	PT2359542	Price	PT2359742	Price	AM52042	Price	AM58042	Price	AM53042	Price
43/64	-	-	-	-	-	-	AM52043	Price	-	-	AM53043	Price
11/16	PT2359644	Price	PT2359544	Price	PT2359744	Price	AM52044	Price	-	-	AM53044	Price
45/64	-	-	-	-	-	-	AM52045	Price	-	-	-	-
23/32	PT2359646	Price	PT2359546	Price	PT2359746	Price	AM52046	Price	-	-	-	-
47/64	-	-	-	-	-	-	AM52047	Price	-	-	-	-
3/4	PT2359648	Price	PT2359548	Price	PT2359748	Price	AM52048	Price	-	-	AM53048	Price
49/64	-	-	-	-	-	-	AM52049	Price	-	-	AM53049	Price
25/32	-	-	PT2359550	Price	PT2359750	Price	AM52050	Price	AM58050	Price	AM53050	Price
51/64	-	-	-	-	-	-	-	-	-	-	AM53051	Price
13/16	-	-	PT2359552	Price	PT2359752	Price	AM52052	Price	-	-	AM53052	Price
53/64	-	-	-	-	-	-	AM52053	Price	-	-	AM53053	Price
27/32	-	-	-	-	-	-	AM52054	Price	-	-	AM53054	Price
55/64	-	-	-	-	-	-	AM52055	Price	-	-	AM53055	Price
7/8	-	-	PT2359554	Price	PT2359756	Price	AM52056	Price	AM58056	Price	AM53056	Price
57/64	-	-	-	-	-	-	-	-	-	-	AM53057	Price
29/32	-	-	-	-	-	-	AM52058	Price	-	-	AM53058	Price
59/64	-	-	-	-	-	-	-	-	-	-	AM53059	Price
15/16	-	-	PT2359556	Price	PT2359760	Price	AM52060	Price	AM58060	Price	AM53060	Price
61/64	-	-	-	-	-	-	AM52061	Price	-	-	AM53061	Price
31/32	-	-	-	-	-	-	AM52062	Price	-	-	AM53062	Price
63/64	-	-	-	-	-	-	AM52063	Price	-	-	AM53063	Price
1	-	-	PT2359558	Price	-	-	AM52100	Price	-	-	AM53100	Price
1-7/16	-	-	-	-	-	-	-	-	-	-	AM53128	Price

V-Series Helios Drills

Cobalt-HSS • 10xD, 15xD, 20xD

- Capable of non-peck drilling up to 20xD without an internal coolant supply
- Compound flute lead construction
- 120° Point



- WXL® coating
- OSG List #1750

- 10xD Premium Cobalt HSS Drill

Size	Decimal Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Price
5/64	.0780	5/64	26mm	75mm	**TP3117542411**	Price
2mm	.0787	2mm	26mm	75mm	**TP318622820**	Price
3/32	.0937	3/32	33mm	75mm	**TP3117543111**	Price
2.5mm	.0984	2.5mm	33mm	75mm	**TP318622825**	Price
7/64	.1094	7/64	40mm	90mm	**TP3117543811**	Price
3mm	.1181	3mm	40mm	90mm	**TP318622830**	Price
1/8	.1252	1/8	45mm	100mm	**TP3117544411**	Price
3.5mm	.1378	3.5mm	50mm	100mm	**TP318622835**	Price
9/64	.1406	9/64	50mm	100mm	**TP3117544711**	Price
5/32	.1563	5/32	50mm	100mm	**TP3117545311**	Price
4mm	.1575	4mm	50mm	100mm	**TP318622840**	Price
11/64	.1720	11/64	60mm	115mm	**TP3117545911**	Price
4.5mm	.1772	4.5mm	60mm	115mm	**TP318622845**	Price
3/16	.1874	3/16	65mm	115mm	**TP3117546511**	Price
5mm	.1969	5mm	65mm	115mm	**TP318622850**	Price
13/64	.2031	13/64	70mm	128mm	**TP3117547211**	Price
5.5mm	.2165	5.5mm	78mm	128mm	**TP318622855**	Price
7/32	.2189	7/32	78mm	128mm	**TP3117547711**	Price
15/64	.2343	15/64	78mm	128mm	**TP3117548111**	Price
6mm	.2362	6mm	78mm	128mm	**TP318622860**	Price
1/4, E	.2500	1/4	87mm	140mm	**TP3117548511**	Price
6.5mm	.2559	6.5mm	87mm	140mm	**TP318622865**	Price
17/64	.2657	17/64	90mm	140mm	**TP3117548811**	Price
7mm	.2756	7mm	90mm	140mm	**TP318622870**	Price
9/32	.2812	9/32	100mm	155mm	**TP3117549111**	Price
7.5mm	.2953	7.5mm	100mm	155mm	**TP318622875**	Price
19/64	.2969	19/64	105mm	155mm	**TP3117549411**	Price
5/16	.3125	5/16	105mm	155mm	**TP3117549611**	Price
8mm	.3150	8mm	105mm	155mm	**TP318622880**	Price
21/64	.3281	21/64	110mm	165mm	**TP3117549911**	Price
8.5mm	.3346	8.5mm	110mm	165mm	**TP318622885**	Price
11/32	.3438	11/32	115mm	165mm	**TP3117550211**	Price
9mm	.3543	9mm	115mm	165mm	**TP318622890**	Price
23/64	.3594	23/64	125mm	190mm	**TP3117550511**	Price
9.5mm	.3740	9.5mm	125mm	190mm	**TP318622895**	Price
3/8	.3750	3/8	130mm	190mm	**TP3117550711**	Price
25/64	.3906	25/64	130mm	190mm	**TP3117551011**	Price
10mm	.3937	10mm	130mm	190mm	**TP318622900**	Price
13/32	.4062	13/32	140mm	205mm	**TP3117551311**	Price
10.5mm	.4134	10.5mm	140mm	205mm	**TP318622905**	Price
27/64	.4219	27/64	145mm	205mm	**TP3117551511**	Price
11mm	.4331	11mm	145mm	205mm	**TP318622910**	Price
7/16	.4375	7/16	155mm	215mm	**TP3117551611**	Price
11.5mm	.4528	11.5mm	155mm	215mm	**TP318622915**	Price
29/64	.4531	29/64	155mm	215mm	**TP3117551711**	Price
15/32	.4688	15/32	155mm	215mm	**TP3117551811**	Price
12mm	.4724	12mm	155mm	215mm	**TP318622920**	Price
1/2	.5000	1/2	160mm	220mm	**TP3117552011**	Price
17/32	.5313	17/32	175mm	225mm	**TP3117525111**	Price
9/16	.5625	9/16	186mm	236mm	**TP3117525311**	Price
45/64	.7031	45/64	233mm	283mm	**TP3117525511**	Price

- 15xD Premium Cobalt HSS Drill

Size	Decimal Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Price
2mm	.0787	2mm	36mm	80mm	**TP318623020**	Price
2.5mm	.0984	2.5mm	46mm	85mm	**TP318623025**	Price
7/64	.1094	7/64	50mm	100mm	**TP3117503811**	Price
3mm	.1181	3mm	54mm	105mm	**TP318623030**	Price
1/8	.1250	1/8	58mm	110mm	**TP3117504411**	Price
3.5mm	.1378	3.5mm	64mm	115mm	**TP318623035**	Price
9/64	.1406	9/64	64mm	115mm	**TP3117504711**	Price
5/32	.1562	5/32	72mm	120mm	**TP3117505311**	Price
4mm	.1575	4mm	72mm	120mm	**TP318623040**	Price
11/64	.1719	11/64	78mm	140mm	**TP3117505911**	Price
4.5mm	.1772	4.5mm	82mm	140mm	**TP318623045**	Price

- 15xD Premium Cobalt HSS Drill

Size	Decimal Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Price
3/16	.1875	3/16	86mm	145mm	**TP3117506511**	Price
5mm	.1969	5mm	90mm	150mm	**TP318623050**	Price
13/64	.2031	13/64	92mm	150mm	**TP3117507211**	Price
5.5mm	.2165	5.5mm	100mm	155mm	**TP318623055**	Price
7/32	.2188	7/32	100mm	155mm	**TP3117507711**	Price
15/64	.2344	15/64	108mm	170mm	**TP3117508111**	Price
6mm	.2362	6mm	108mm	170mm	**TP318623060**	Price
1/4, E	.2500	1/4	114mm	175mm	**TP3117508511**	Price
6.5mm	.2559	6.5mm	118mm	200mm	**TP318623065**	Price
17/64	.2656	17/64	120mm	200mm	**TP3117508811**	Price
7mm	.2756	7mm	126mm	200mm	**TP318623070**	Price
9/32	.2812	9/32	130mm	205mm	**TP3117509111**	Price
7.5mm	.2953	7.5mm	136mm	205mm	**TP318623075**	Price
19/64	.2969	19/64	136mm	205mm	**TP3117509411**	Price
5/16	.3125	5/16	144mm	215mm	**TP3117509611**	Price
8mm	.3150	8mm	144mm	215mm	**TP318623080**	Price
21/64	.3281	21/64	150mm	220mm	**TP3117509911**	Price
8.5mm	.3346	8.5mm	154mm	225mm	**TP318623085**	Price
11/32	.3438	11/32	160mm	230mm	**TP3117510211**	Price
9mm	.3504	9mm	162mm	230mm	**TP318623090**	Price
23/64	.3594	23/64	165mm	235mm	**TP3117510511**	Price
3/8	.3750	3/8	172mm	240mm	**TP3117510711**	Price
25/64	.3906	25/64	180mm	250mm	**TP3117511011**	Price
10mm	.3937	10mm	180mm	250mm	**TP318623100**	Price
13/32	.4062	13/32	185mm	260mm	**TP3117511311**	Price
27/64	.4219	27/64	195mm	275mm	**TP3117511511**	Price
11mm	.4331	11mm	200mm	280mm	**TP318623110**	Price
7/16	.4375	7/16	200mm	280mm	**TP3117511611**	Price
11.5mm	.4528	11.5mm	208mm	290mm	**TP318623115**	Price
29/64	.4531	29/64	210mm	290mm	**TP3117511711**	Price
15/32	.4688	15/32	215mm	295mm	**TP3117511811**	Price
12mm	.4724	12mm	216mm	300mm	**TP318623120**	Price
1/2	.5000	1/2	230mm	310mm	**TP3117512011**	Price
17/32	.5313	17/32	243mm	293mm	**TP3117525711**	Price
9/16	.5625	9/16	257mm	307mm	**TP3117525911**	Price
45/64	.7031	45/64	322mm	372mm	**TP3117526111**	Price

- 20xD Premium Cobalt HSS Drill

Size	Decimal Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Price
5/64	.0780	5/64	46mm	85mm	**TP3117515311**	Price
2mm	.0787	2mm	46mm	85mm	**TP318623220**	Price
3/32	.0937	3/32	56mm	95mm	**TP3117516011**	Price
2.5mm	.0984	2.5mm	58mm	100mm	**TP318623225**	Price
7/64	.1094	7/64	66mm	115mm	**TP3117516711**	Price
3mm	.1181	3mm	70mm	120mm	**TP318623230**	Price
1/8	.1250	1/8	74mm	125mm	**TP3117517311**	Price
3.5mm	.1378	3.5mm	82mm	130mm	**TP318623235**	Price
9/64	.1406	9/64	82mm	130mm	**TP3117517611**	Price
5/32	.1562	5/32	92mm	140mm	**TP3117518211**	Price
4mm	.1575	4mm	92mm	140mm	**TP318623240**	Price
11/64	.1719	11/64	100mm	160mm	**TP3117518811**	Price
3/16	.1875	3/16	110mm	170mm	**TP3117519411**	Price
5mm	.1969	5mm	116mm	175mm	**TP318623250**	Price
13/64	.2031	13/64	120mm	180mm	**TP3117520111**	Price
5.5mm	.2165	5.5mm	128mm	185mm	**TP318623255**	Price
7/32	.2188	7/32	128mm	185mm	**TP3117520611**	Price
15/64	.2344	15/64	138mm	200mm	**TP3117521011**	Price
6mm	.2362	6mm	138mm	200mm	**TP318623260**	Price
1/4, E	.2500	1/4	146mm	200mm	**TP3117521411**	Price
6.5mm	.2559	6.5mm	150mm	225mm	**TP318623265**	Price
17/64	.2656	17/64	156mm	225mm	**TP3117521711**	Price
7mm	.2756	7mm	162mm	230mm	**TP318623270**	Price
9/32	.2812	9/32	164mm	235mm	**TP3117522011**	Price
7.5mm	.2953	7.5mm	174mm	245mm	**TP318623275**	Price
19/64	.2969	19/64	174mm	245mm	**TP3117522311**	Price
5/16	.3125	5/16	184mm	255mm	**TP3117522511**	Price
8mm	.3150	8mm	184mm	255mm	**TP318623280**	Price
21/64	.3281	21/64	192mm	260mm	**TP3117522811**	Price
8.5mm	.3346	8.5mm	196mm	265mm	**TP318623285**	Price
11/32	.3438	11/32	200mm	270mm	**TP3117523111**	Price
9mm	.3543	9mm	208mm	275mm	**TP318623290**	Price
23/64	.3594	23/64	210mm	275mm	**TP3117523411**	Price
3/8	.3750	3/8	220mm	290mm	**TP3117523611**	Price
25/64	.3906	25/64	230mm	300mm	**TP3117523911**	Price
10mm	.3937	10mm	230mm	300mm	**TP318623300**	Price
13/32	.4062	13/32	238mm	300mm	**TP3117524211**	Price
27/64	.4219	27/64	246mm	340mm	**TP3117524411**	Price
11mm	.4331	11mm	254mm	350mm	**TP318623310**	Price
7/16	.4375	7/16	255mm	350mm	**TP3117524511**	Price
29/64	.4531	29/64	265mm	350mm	**TP3117524611**	Price
15/32	.4688	15/32	274mm	350mm	**TP3117524711**	Price
12mm	.4724	12mm	276mm	350mm	**TP318623320**	Price
1/2	.5000	1/2	292mm	360mm	**TP3117524911**	Price
17/32	.5313	17/32	310mm	360mm	**TP3117526311**	Price
9/16	.5625	9/16	328mm	378mm	**TP3117526511**	Price

Taper Shank Drills

High Speed Steel • 118° Standard Point • Surface Treated

- Standard and alternate shanks shown
- High production drilling in a wide variety of materials
- Morse List #1302
- Precision Twist List #209, S209, L209



				Morse Cutting Tools		Precision Twist Drill	
Size (in.)	Flute Length (in.)	Overall Length (in.)	Taper Shank	Order No.	Price	Order No.	Price
1/8	1-7/8	5-1/8	1 MT	**MT1610008**	Price	**PT2620008**	Price
9/64	2-1/8	5-3/8	1 MT	**MT1610009**	Price	**PT2620009**	Price
5/32	2-1/8	5-3/8	1 MT	**MT1610010**	Price	**PT2620010**	Price
11/64	2-1/2	5-3/4	1 MT	**MT1610011**	Price	**PT2620011**	Price
3/16	2-1/2	5-3/4	1 MT	**MT1610012**	Price	**PT2620012**	Price
13/64	2-3/4	6	1 MT	**MT1610013**	Price	**PT2620013**	Price
7/32	2-3/4	6	1 MT	**MT1610014**	Price	**PT2620014**	Price
15/64	2-7/8	6-1/8	1 MT	**MT1610015**	Price	**PT2620015**	Price
1/4	2-7/8	6-1/8	1 MT	**MT1610016**	Price	**PT2620016**	Price
17/64	3	6-1/4	1 MT	**MT1610017**	Price	**PT2620017**	Price
9/32	3	6-1/4	1 MT	**MT1610018**	Price	**PT2620018**	Price
19/64	3-1/8	6-3/8	1 MT	**MT1610019**	Price	**PT2620019**	Price
5/16	3-1/8	6-3/8	1 MT	**MT1610020**	Price	**PT2620020**	Price
21/64	3-1/4	6-1/2	1 MT	**MT1610021**	Price	**PT2620021**	Price
11/32	3-1/4	6-1/2	1 MT	**MT1610022**	Price	**PT2620022**	Price
23/64	3-1/2	6-3/4	1 MT	**MT1610023**	Price	**PT2620023**	Price
3/8	3-1/2	6-3/4	1 MT	**MT1610024**	Price	**PT2620024**	Price
3/8	3-1/2	7-3/8	2 MT	**-**	-	**PT2622524†**	Price
25/64	3-5/8	7	1 MT	**MT1610025**	Price	**PT2620025**	Price
13/32	3-5/8	7	1 MT	**MT1610026**	Price	**PT2620026**	Price
27/64	3-7/8	7-1/4	1 MT	**MT1610027**	Price	**PT2620027**	Price
7/16	3-7/8	7-1/4	1 MT	**MT1610028**	Price	**PT2620028**	Price
29/64	4-1/8	7-1/2	1 MT	**MT1610029**	Price	**PT2620029**	Price
15/32	4-1/8	7-1/2	1 MT	**MT1610030**	Price	**PT2620030**	Price
31/64	4-3/8	8-1/4	2 MT	**MT1610031**	Price	**PT2620031**	Price
1/2	4-3/8	7-3/4	1 MT	**-**	-	**PT2623032†**	Price
1/2	4-3/8	8-1/4	2 MT	**MT1610032**	Price	**PT2620032**	Price
33/64	4-5/8	8	1 MT	**-**	-	**PT2623033†**	Price
33/64	4-5/8	8-1/2	2 MT	**MT1610033**	Price	**PT2620033**	Price
17/32	4-5/8	8	1 MT	**-**	-	**PT2623034†**	Price
17/32	4-5/8	8-1/2	2 MT	**MT1610034**	Price	**PT2620034**	Price
35/64	4-7/8	8-1/4	1 MT	**-**	-	**PT2623035†**	Price
35/64	4-7/8	8-3/4	2 MT	**MT1610035**	Price	**PT2620035**	Price
9/16	4-7/8	8-1/4	1 MT	**MT1610213†**	Price	**PT2623036†**	Price
9/16	4-7/8	8-3/4	2 MT	**MT1610036**	Price	**PT2620036**	Price
37/64	4-7/8	8-3/4	2 MT	**MT1610037**	Price	**PT2620037**	Price
19/32	4-7/8	8-3/4	2 MT	**MT1610038**	Price	**PT2620038**	Price
39/64	4-7/8	8-3/4	2 MT	**MT1610039**	Price	**PT2620039**	Price
5/8	4-7/8	8-3/4	2 MT	**MT1610040**	Price	**PT2620040**	Price
41/64	5-1/8	9	2 MT	**MT1610041**	Price	**PT2620041**	Price
21/32	5-1/8	9	2 MT	**MT1610042**	Price	**PT2620042**	Price
43/64	5-3/8	9-1/4	2 MT	**MT1610043**	Price	**PT2620043**	Price
11/16	5-3/8	9-1/4	2 MT	**MT1610044**	Price	**PT2620044**	Price
45/64	5-5/8	9-1/2	2 MT	**MT1610045**	Price	**PT2620045**	Price
23/32	5-5/8	9-1/2	2 MT	**MT1610046**	Price	**PT2620046**	Price
47/64	5-7/8	9-3/4	2 MT	**MT1610047**	Price	**PT2620047**	Price
3/4	5-7/8	9-3/4	2 MT	**MT1610048**	Price	**PT2620048**	Price
49/64	6	9-7/8	2 MT	**MT1610049**	Price	**PT2620049**	Price
25/32	6	9-7/8	2 MT	**MT1610050**	Price	**PT2620050**	Price
51/64	6-1/8	10	2 MT	**-**	-	**PT2623051†**	Price
51/64	6-1/8	10-3/4	3 MT	**MT1610051**	Price	**PT2620051**	Price
13/16	6-1/8	10	2 MT	**-**	-	**PT2623052†**	Price
13/16	6-1/8	10-3/4	3 MT	**MT1610052**	Price	**PT2620052**	Price
53/64	6-1/8	10-3/4	3 MT	**MT1610053**	Price	**PT2620053**	Price
27/32	6-1/8	10	2 MT	**-**	-	**PT2623054†**	Price

				Morse Cutting Tools		Precision Twist Drill	
Size (in.)	Flute Length (in.)	Overall Length (in.)	Taper Shank	Order No.	Price	Order No.	Price
27/32	6-1/8	10-3/4	3 MT	**MT1610054**	Price	**PT2620054**	Price
55/64	6-1/8	10-3/4	3 MT	**MT1610055**	Price	**PT2620055**	Price
7/8	6-1/8	10	2 MT	**MT1610229†**	Price	**PT2623056†**	Price
7/8	6-1/8	10-3/4	3 MT	**MT1610056**	Price	**PT2620056**	Price
57/64	6-1/8	10-3/4	3 MT	**MT1610057**	Price	**PT2620057**	Price
29/32	6-1/8	10-3/4	3 MT	**MT1610058**	Price	**PT2620058**	Price
59/64	6-1/8	10-3/4	3 MT	**MT1610059**	Price	**PT2620059**	Price
15/16	6-1/8	10-3/4	3 MT	**MT1610060**	Price	**PT2620060**	Price
61/64	6-3/8	11	3 MT	**MT1610061**	Price	**PT2620061**	Price
31/32	6-3/8	11	3 MT	**MT1610062**	Price	**PT2620062**	Price
63/64	6-3/8	11	3 MT	**MT1610063**	Price	**PT2620063**	Price
1	6-3/8	11	3 MT	**MT1610064**	Price	**PT2620100**	Price
1-1/64	6-1/2	11-1/8	3 MT	**MT1610065**	Price	**PT2620101**	Price
1-1/32	6-1/2	11-1/8	3 MT	**MT1610066**	Price	**PT2620102**	Price
1-3/64	6-5/8	11-1/4	3 MT	**MT1610067**	Price	**PT2620103**	Price
1-1/16	6-5/8	11-1/4	3 MT	**MT1610068**	Price	**PT2620104**	Price
1-5/64	6-7/8	12-1/2	4 MT	**MT1610069**	Price	**PT2620105**	Price
1-3/32	6-7/8	11-1/2	3 MT	**-**	-	**PT2623106†**	Price
1-3/32	6-7/8	12-1/2	4 MT	**MT1610070**	Price	**PT2620106**	Price
1-7/64	7-1/8	11-3/4	3 MT	**-**	-	**PT2623107†**	Price
1-7/64	7-1/8	12-3/4	4 MT	**MT1610071**	Price	**PT2620107**	Price
1-1/8	7-1/8	11-3/4	3 MT	**-**	-	**PT2623108†**	Price
1-1/8	7-1/8	12-3/4	4 MT	**MT1610072**	Price	**PT2620108**	Price
1-9/64	7-1/4	11-7/8	3 MT	**-**	-	**PT2623109†**	Price
1-9/64	7-1/4	12-7/8	4 MT	**MT1610073**	Price	**PT2620109**	Price
1-5/32	7-1/4	11-7/8	3 MT	**-**	-	**PT2623110†**	Price
1-5/32	7-1/4	12-7/8	4 MT	**MT1610074**	Price	**PT2620110**	Price
1-11/64	7-3/8	12	3 MT	**-**	-	**PT2623111†**	Price
1-11/64	7-3/8	13	4 MT	**MT1610075**	Price	**PT2620111**	Price
1-3/16	7-3/8	12	3 MT	**-**	-	**PT2623112†**	Price
1-3/16	7-3/8	13	4 MT	**MT1610076**	Price	**PT2620112**	Price
1-13/64	7-1/2	12-1/8	3 MT	**MT1610243†**	Price	**PT2623113†**	Price
1-13/64	7-1/2	13-1/8	4 MT	**MT1610077**	Price	**-**	-
1-7/32	7-1/2	12-1/8	3 MT	**-**	-	**PT2623114†**	Price
1-7/32	7-1/2	13-1/8	4 MT	**MT1610078**	Price	**PT2620114**	Price
1-15/64	7-7/8	12-1/2	3 MT	**-**	-	**PT2623115†**	Price
1-15/64	7-7/8	13-1/2	4 MT	**MT1610079**	Price	**PT2620115**	Price
1-1/4	7-7/8	12-1/2	3 MT	**MT1610246†**	Price	**PT2623116†**	Price
1-1/4	7-7/8	13-1/2	4 MT	**MT1610080**	Price	**PT2620116**	Price
1-17/64	8-1/2	14-1/8	4 MT	**MT1610081**	Price	**PT2620117**	Price
1-9/32	8-1/2	14-1/8	4 MT	**MT1610082**	Price	**PT2620118**	Price
1-19/64	8-5/8	14-1/4	4 MT	**MT1610083**	Price	**PT2620119**	Price
1-5/16	8-5/8	14-1/4	4 MT	**MT1610084**	Price	**PT2620120**	Price
1-21/64	8-3/4	14-3/8	4 MT	**MT1610085**	Price	**PT2620121**	Price
1-11/32	8-3/4	14-3/8	4 MT	**MT1610086**	Price	**PT2620122**	Price
1-23/64	8-7/8	14-1/2	4 MT	**MT1610087**	Price	**-**	-
1-3/8	8-7/8	14-1/2	4 MT	**MT1610088**	Price	**PT2620124**	Price
1-25/64	9	14-5/8	4 MT	**MT1610089**	Price	**-**	-
1-13/32	9	14-5/8	4 MT	**MT1610090**	Price	**PT2620126**	Price
1-27/64	9-1/8	14-3/4	4 MT	**MT1610091**	Price	**PT2620127**	Price
1-7/16	9-1/8	14-3/4	4 MT	**MT1610092**	Price	**PT2620128**	Price
1-15/32	9-1/4	14-7/8	4 MT	**MT1610094**	Price	**PT2620130**	Price
1-31/64	9-3/8	15	4 MT	**MT1610095**	Price	**PT2620131**	Price
1-1/2	9-3/8	15	4 MT	**MT1610096**	Price	**PT2620132**	Price

(continued on next page)

Taper Shank Drills *(continued from previous page)*

High Speed Steel • 118° Standard Point • Surface Treated

- Standard and alternate shanks shown
- High production drilling in a wide variety of materials
- Morse List #1302
- Precision Twist List #209, S209, L209



				Morse Cutting Tools		Precision Twist Drill	
Size (in.)	Flute Length (in.)	Overall Length (in.)	Taper Shank	Order No.	Price	Order No.	Price
1-33/64	9-3/8	15	4 MT	-	-	**PT2623133**	Price
1-17/32	9-3/8	16-3/8	5 MT	**MT1610097**	Price	**PT2620134**	Price
1-35/64	9-5/8	15-1/4	4 MT	-	-	**PT2623135**	Price
1-9/16	9-5/8	15-1/4	4 MT	-	-	**PT2623136**	Price
1-9/16	9-5/8	16-5/8	5 MT	**MT1610098**	Price	**PT2620136**	Price
1-19/32	9-7/8	15-1/2	4 MT	-	-	**PT2623138**	Price
1-19/32	9-7/8	16-7/8	5 MT	**MT1610099**	Price	-	-
1-39/64	10	15-5/8	4 MT	-	-	**PT2623139**	Price
1-5/8	10	15-5/8	4 MT	-	-	**PT2623140**	Price
1-5/8	10	17	5 MT	**MT1610100**	Price	**PT2620140**	Price
1-21/32	10-1/8	15-3/4	4 MT	-	-	**PT2623142**	Price
1-21/32	10-1/8	17-1/8	5 MT	**MT1610101**	Price	-	-
1-11/16	10-1/8	15-3/4	4 MT	-	-	**PT2623144**	Price
1-11/16	10-1/8	17-1/8	5 MT	**MT1610102**	Price	**PT2620144**	Price
1-23/32	10-1/8	17-1/8	5 MT	**MT1610103**	Price	-	-
1-47/64	10-3/8	16-1/4	4 MT	-	-	**PT2623147**	Price
1-3/4	10-3/8	16-1/4	4 MT	-	-	**PT2623148**	Price
1-3/4	10-1/8	17-1/8	5 MT	**MT1610104**	Price	**PT2620148**	Price
1-25/32	10-3/8	16-1/4	4 MT	-	-	**PT2623150**	Price
1-25/32	10-1/8	17-1/8	5 MT	**MT1610105**	Price	-	-
1-13/16	10-1/8	17-1/8	5 MT	**MT1610106**	Price	**PT2620152**	Price
1-27/32	10-1/8	17-1/8	5 MT	**MT1610107**	Price	-	-

				Morse Cutting Tools		Precision Twist Drill	
Size (in.)	Flute Length (in.)	Overall Length (in.)	Taper Shank	Order No.	Price	Order No.	Price
1-7/8	10-1/2	16-1/2	4 MT	-	-	**PT2623156**	Price
1-7/8	10-3/8	17-3/8	5 MT	**MT1610108**	Price	**PT2620156**	Price
1-29/32	10-3/8	17-3/8	5 MT	**MT1610109**	Price	-	
Price	10-5/8	16-5/8	4 MT	-	-	**PT2623160**	Price
1-15/16	10-3/8	17-3/8	5 MT	**MT1610110**	Price	**PT2620160**	Price
1-31/32	10-5/8	16-5/8	4 MT	**MT1610269†**	Price	**PT2623162**	Price
1-31/32	10-3/8	17-3/8	5 MT	**MT1610111**	Price	-	-
2	10-5/8	16-5/8	4 MT	**MT1610270†**	Price	**PT2623200**	Price
2	10-3/8	17-3/8	5 MT	**MT1610112**	Price	**PT2620200**	Price
2-1/32	10-3/8	17-3/8	5 MT	**MT1610113**	Price	-	-
2-1/16	10-1/4	17-3/8	5 MT	**MT1610114**	Price	-	-
2-1/8	10-1/4	17-3/8	5 MT	**MT1610116**	Price	-	-
2-5/32	10-1/4	17-3/8	5 MT	**MT1610117**	Price	-	-
2-3/16	10-1/4	17-3/8	5 MT	**MT1610118**	Price	-	-
2-7/32	10-1/8	17-3/8	5 MT	**MT1610119**	Price	-	-
2-1/4	10-1/8	17-3/8	5 MT	**MT1610120**	Price	-	-
2-5/16	10-1/8	17-3/8	5 MT	**MT1610121**	Price	-	-
2-3/8	10-1/8	17-3/8	5 MT	**MT1610122**	Price	-	-
2-7/16	11-1/4	18-3/4	5 MT	**MT1610123**	Price	-	-
2-1/2	11-1/4	18-3/4	5 MT	**MT1610124**	Price	-	-

†Indicates smaller or larger shank than standard

Taper Shank Drills

High Speed Steel • 118° Standard Point • Surface Treated

- Standard and alternate shank available



				Generic USA		ProCut	
Size (in.)	Flute Length (in.)	OAL (in.)	Taper Shank	Order No.	Price	Order No.	Price
5/64	1-3/8	4-3/4	1 MT	-	-	**AA501005**	Price
1/8	1-7/8	5-1/8	1 MT	**AA401008**	Price	-	-
9/64	2-1/8	5-3/8	1 MT	-	-	**AA501009**	Price
5/32	2-1/8	5-3/8	1 MT	**AA401010**	Price	**AA501010**	Price
11/64	2-1/2	5-3/4	1 MT	**AA401011**	Price	**AA501011**	Price
3/16	2-1/2	5-3/4	1 MT	**AA401012**	Price	-	-
13/64	2-3/4	6	1 MT	**AA401013**	Price	-	-
7/32	2-3/4	6	1 MT	**AA401014**	Price	**AA501014**	Price
15/64	2-7/8	6-1/8	1 MT	**AA401015**	Price	**AA501015**	Price
1/4	2-7/8	6-1/8	1 MT	**AA401016**	Price	**AA501016**	Price
17/64	3	6-1/4	1 MT	**AA401017**	Price	**AA501017**	Price
9/32 (K)	3	6-1/4	1 MT	**AA401018**	Price	**AA501018**	Price
19/64	3-1/8	6-3/8	1 MT	**AA401019**	Price	**AA501019**	Price
5/16	3-1/8	6-3/8	1 MT	**AA401020**	Price	**AA501020**	Price
21/64	3-1/4	6-1/2	1 MT	**AA401021**	Price	**AA501021**	Price
11/32	3-1/4	6-1/2	1 MT	**AA401022**	Price	**AA501022**	Price
23/64	3-1/2	6-3/4	1 MT	**AA401023**	Price	**AA501023**	Price
3/8	3-1/2	6-3/4	1 MT	**AA401024**	Price	**AA501024**	Price

				Generic USA		ProCut	
Size (in.)	Flute Length (in.)	OAL (in.)	Taper Shank	Order No.	Price	Order No.	Price
3/8	3-1/2	7-3/8	2 MT	**AA402024†**	Price	**AA502024†**	Price
25/64	3-5/8	7	1 MT	**AA401025**	Price	**AA501025**	Price
25/64	3-5/8	7-1/2	2 MT	**AA402025†**	Price	**AA502025†**	Price
13/32	3-5/8	7	1 MT	**AA401026**	Price	**AA501026**	Price
13/32	3-5/8	7-1/2	2 MT	**AA402026†**	Price	**AA502026†**	Price
27/64	3-7/8	7-1/4	1 MT	**AA401027**	Price	**AA501027**	Price
27/64	3-7/8	7-3/4	2 MT	**AA402027†**	Price	**AA502027†**	Price
7/16	3-7/8	7-1/4	1 MT	**AA401028**	Price	**AA501028**	Price
7/16	3-7/8	7-3/4	2 MT	**AA402028†**	Price	**AA502028†**	Price
29/64	4-1/8	7-1/2	1 MT	**AA401029**	Price	**AA501029**	Price
29/64	4-1/8	8	2 MT	**AA402029†**	Price	**AA502029†**	Price
15/32	4-1/8	7-1/2	1 MT	**AA401030**	Price	**AA501030**	Price
15/32	4-1/8	8	2 MT	**AA402030†**	Price	**AA502030†**	Price
31/64	4-3/8	7-3/4	1 MT	**AA401031†**	Price	**AA501031†**	Price
31/64	4-3/8	8-1/4	2 MT	**AA402031**	Price	**AA502031**	Price
1/2	4-3/8	7-3/4	1 MT	**AA401032†**	Price	**AA501032†**	Price
1/2	4-3/8	8-1/4	2 MT	**AA402032**	Price	**AA502032**	Price
33/64	4-5/8	8	1 MT	**AA401033†**	Price	**AA501033†**	Price

Taper Shank Drills *(continued from previous page)*



High Speed Steel • 118° Standard Point • Surface Treated

- Standard and alternate shank available

				Generic USA		ProCut	
Size (in.)	Flute Length (in.)	OAL (in.)	Taper Shank	Order No.	Price	Order No.	Price
33/64	4-5/8	8-1/2	2 MT	**AA402033**	Price	**AA502033**	Price
17/32	4-5/8	8	1 MT	**AA401034†**	Price	**AA501034†**	Price
17/32	4-5/8	8-1/2	2 MT	**AA402034**	Price	**AA502034**	Price
35/64	4-7/8	8-1/4	1 MT	**AA401035†**	Price	**AA501035†**	Price
35/64	4-7/8	8-3/4	2 MT	**AA402035**	Price	**AA502035**	Price
9/16	4-7/8	8-1/4	1 MT	**AA401036†**	Price	**AA501036†**	Price
9/16	4-7/8	8-3/4	2 MT	**AA402036**	Price	**AA502036**	Price
37/64	4-7/8	8-1/4	1 MT	**-**	-	**AA501037†**	Price
37/64	4-7/8	8-3/4	2 MT	**AA402037**	Price	**AA502037**	Price
19/32	4-7/8	8-3/4	2 MT	**AA402038**	Price	**AA502038**	Price
39/64	4-7/8	8-3/4	2 MT	**AA402039**	Price	**AA502039**	Price
5/8	4-7/8	8-3/4	2 MT	**AA402040**	Price	**AA502040**	Price
41/64	5-1/8	9	2 MT	**AA402041**	Price	**AA502041**	Price
41/64	5-1/8	9-3/4	3 MT	**AA403041†**	Price	**AA503041†**	Price
21/32	5-1/8	9	2 MT	**AA402042**	Price	**AA502042**	Price
21/32	5-1/8	9-3/4	3 MT	**AA403042†**	Price	**AA503042†**	Price
43/64	5-3/8	9-1/4	2 MT	**AA402043**	Price	**AA502043**	Price
43/64	5-3/8	10	3 MT	**AA403043†**	Price	**AA503043†**	Price
11/16	5-3/8	9-1/4	2 MT	**AA402044**	Price	**AA502044**	Price
11/16	5-3/8	10	3 MT	**AA403044†**	Price	**AA503044†**	Price
45/64	5-5/8	9-1/2	2 MT	**AA402045**	Price	**AA502045**	Price
45/64	5-5/8	10-1/4	3 MT	**AA403045†**	Price	**AA503045†**	Price
23/32	5-5/8	9-1/2	2 MT	**AA402046**	Price	**AA502046**	Price
23/32	5-5/8	10-1/4	3 MT	**AA403046†**	Price	**AA503046†**	Price
47/64	5-7/8	9-3/4	2 MT	**AA402047**	Price	**AA502047**	Price
47/64	5-7/8	10-1/2	3 MT	**AA403047†**	Price	**AA503047†**	Price
3/4	5-7/8	9-3/4	2 MT	**AA402048**	Price	**AA502048**	Price
3/4	5-7/8	10-1/2	3 MT	**AA403048†**	Price	**AA503048†**	Price
49/64	6	9-7/8	2 MT	**AA402049**	Price	**AA502049**	Price
49/64	6	10-5/8	3 MT	**AA403049†**	Price	**AA503049†**	Price
25/32	6	9-7/8	2 MT	**AA402050**	Price	**AA502050**	Price
25/32	6	10-5/8	3 MT	**AA403050†**	Price	**AA503050†**	Price
51/64	6-1/8	10	2 MT	**AA402051†**	Price	**AA502051†**	Price
51/64	6-1/8	10-3/4	3 MT	**AA403051**	Price	**AA503051**	Price
13/16	6-1/8	10	2 MT	**AA402052†**	Price	**AA502052†**	Price
13/16	6-1/8	10-3/4	3 MT	**AA403052**	Price	**AA503052**	Price
53/64	6-1/8	10	2 MT	**AA402053†**	Price	**AA502053†**	Price
53/64	6-1/8	10-3/4	3 MT	**AA403053**	Price	**AA503053**	Price
27/32	6-1/8	10	2 MT	**AA402054†**	Price	**AA502054†**	Price
27/32	6-1/8	10-3/4	3 MT	**AA403054**	Price	**AA503054**	Price
55/64	6-1/8	10	2 MT	**AA402055†**	Price	**AA502055†**	Price
55/64	6-1/8	10-3/4	3 MT	**AA403055**	Price	**AA503055**	Price
7/8	6-1/8	10	2 MT	**AA402056†**	Price	**AA502056†**	Price
7/8	6-1/8	10-3/4	3 MT	**AA403056**	Price	**AA503056**	Price
57/64	6-1/8	10	2 MT	**AA402057†**	Price	**AA502057†**	Price
57/64	6-1/8	10-3/4	3 MT	**AA403057**	Price	**AA503057**	Price
29/32	6-1/8	10	2 MT	**AA402058†**	Price	**AA502058†**	Price
29/32	6-1/8	10-3/4	3 MT	**AA403058**	Price	**AA503058**	Price
59/64	6-1/8	10-3/4	3 MT	**AA403059**	Price	**AA503059**	Price
15/16	6-1/8	10-3/4	3 MT	**AA403060**	Price	**AA503060**	Price

				Generic USA		ProCut	
Size (in.)	Flute Length (in.)	OAL (in.)	Taper Shank	Order No.	Price	Order No.	Price
61/64	6-3/8	11	3 MT	**AA403061**	Price	**AA503061**	Price
31/32	6-3/8	11	3 MT	**AA403062**	Price	**AA503062**	Price
63/64	6-3/8	11	3 MT	**AA403063**	Price	**AA503063**	Price
1	6-3/8	11	3 MT	**AA403100**	Price	**AA503100**	Price
1	6-3/8	12	4 MT	**AA404100†**	Price	**AA504100†**	Price
1-1/64	6-1/2	11-1/8	3 MT	**AA403101**	Price	**AA503101**	Price
1-1/64	6-1/2	11-1/8	4 MT	**-**	-	**AA504101†**	Price
1-1/32	6-1/2	11-1/8	3 MT	**AA403102**	Price	**AA503102**	Price
1-1/32	6-1/2	12-1/8	4 MT	**AA404102†**	Price	**AA504102†**	Price
1-3/64	6-5/8	11-1/4	3 MT	**AA403103**	Price	**AA503103**	Price
1-3/64	6-5/8	11-1/4	4 MT	**-**	-	**AA504103†**	Price
1-1/16	6-5/8	11-1/4	3 MT	**AA403104**	Price	**AA503104**	Price
1-1/16	6-5/8	12-1/4	4 MT	**AA404104†**	Price	**AA504104†**	Price
1-5/64	6-7/8	11-1/2	3 MT	**AA403105†**	Price	**AA503105†**	Price
1-5/64	6-7/8	12-1/2	4 MT	**AA404105**	Price	**AA504105**	Price
1-3/32	6-7/8	11-1/2	3 MT	**AA403106†**	Price	**AA503106†**	Price
1-3/32	6-7/8	12-1/2	4 MT	**AA404106**	Price	**AA504106**	Price
1-7/64	7-1/8	11-3/4	3 MT	**AA403107†**	Price	**AA503107†**	Price
1-7/64	7-1/8	12-3/4	4 MT	**AA404107**	Price	**AA504107**	Price
1-1/8	7-1/8	11-3/4	3 MT	**AA403108†**	Price	**AA503108†**	Price
1-1/8	7-1/8	12-3/4	4 MT	**AA404108**	Price	**AA504108**	Price
1-9/64	7-1/4	11-7/8	3 MT	**AA403109†**	Price	**AA503109†**	Price
1-9/64	7-1/4	12-7/8	4 MT	**AA404109**	Price	**AA504109**	Price
1-5/32	7-1/4	11-7/8	3 MT	**AA403110†**	Price	**AA503110†**	Price
1-5/32	7-1/4	12-7/8	4 MT	**AA404110**	Price	**AA504110**	Price
1-11/64	7-3/8	12	3 MT	**AA403111†**	Price	**AA503111†**	Price
1-11/64	7-3/8	13	4 MT	**AA404111**	Price	**AA504111**	Price
1-3/16	7-3/8	12	3 MT	**AA403112†**	Price	**AA503112†**	Price
1-3/16	7-3/8	13	4 MT	**AA404112**	Price	**AA504112**	Price
1-13/64	7-1/2	12-1/8	3 MT	**-**	-	**AA503113†**	Price
1-13/64	7-1/2	13-1/8	4 MT	**AA404113**	Price	**AA504113**	Price
1-7/32	7-1/2	12-1/8	3 MT	**AA403114†**	Price	**AA503114†**	Price
1-7/32	7-1/2	13-1/8	4 MT	**AA404114**	Price	**AA504114**	Price
1-15/64	7-7/8	12-1/2	3 MT	**AA403115†**	Price	**AA503115†**	Price
1-15/64	7-7/8	13-1/2	4 MT	**AA404115**	Price	**AA504115**	Price
1-1/4	7-7/8	12-1/2	3 MT	**AA403116†**	Price	**AA503116†**	Price
1-1/4	7-7/8	13-1/2	4 MT	**AA404116**	Price	**AA504116**	Price
1-17/64	8-1/2	14-1/8	4 MT	**AA404117**	Price	**AA504117**	Price
1-9/32	8-1/2	14-1/8	4 MT	**AA404118**	Price	**AA504118**	Price
1-19/64	8-5/8	14-1/4	4 MT	**AA404119**	Price	**AA504119**	Price
1-5/16	8-5/8	13-1/4	3 MT	**-**	-	**AA503120†**	Price
1-5/16	8-5/8	14-1/4	4 MT	**AA404120**	Price	**AA504120**	Price
1-21/64	8-3/4	14-3/8	4 MT	**AA404121**	Price	**AA504121**	Price
1-11/32	8-3/4	14-3/8	4 MT	**AA404122**	Price	**AA504122**	Price
1-23/64	8-7/8	14-1/2	4 MT	**AA404123**	Price	**AA504123**	Price
1-3/8	8-7/8	13-1/2	3 MT	**-**	-	**AA503124†**	Price
1-3/8	8-7/8	14-1/2	4 MT	**AA404124**	Price	**AA504124**	Price
1-25/64	9	14-5/8	4 MT	**AA404125**	Price	**AA504125**	Price
1-13/32	9	14-5/8	4 MT	**AA404126†**	Price	**AA504126**	Price
1-27/64	9-1/8	14-3/4	4 MT	**AA404127**	Price	**AA504127**	Price

(continued on next page)

Taper Shank Drills *(continued from previous page)*

High Speed Steel • 118° Standard Point • Surface Treated

- Standard and alternate shank available



				Generic USA		ProCut	
Size (in.)	Flute Length (in.)	OAL (in.)	Taper Shank	Order No.	Price	Order No.	Price
1-7/16	9-1/8	13-7/8	3 MT	-	-	AA503128†	Price
1-7/16	9-1/8	14-3/4	4 MT	AA404128	Price	AA504128	Price
1-29/64	9-1/4	14-7/8	4 MT	AA404129	Price	AA504129	Price
1-15/32	9-1/4	14-7/8	4 MT	AA404130	Price	AA504130	Price
1-31/64	9-3/8	15	4 MT	AA404131	Price	AA504131	Price
1-1/2	9-3/8	14	3 MT	-	-	AA503132†	Price
1-1/2	9-3/8	15	4 MT	AA404132	Price	AA504132	Price
1-33/64	9-3/8	15	4 MT	AA404133†	Price	AA504133†	Price
1-33/64	9-3/8	16-3/8	5 MT	-	-	AA505133	Price
1-17/32	9-3/8	15	4 MT	AA404134†	Price	AA504134†	Price
1-17/32	9-3/8	16-3/8	5 MT	AA405134	Price	AA505134	Price
1-35/64	9-5/8	15-1/4	4 MT	AA404135†	Price	AA504135†	Price
1-35/64	9-5/8	16-5/8	5 MT	AA405135	Price	AA505135	Price
1-9/16	9-5/8	15-1/4	4 MT	AA404136†	Price	AA504136†	Price
1-9/16	9-5/8	16-5/8	5 MT	AA405136	Price	AA505136	Price
1-37/64	9-7/8	15-1/2	4 MT	AA404137†	Price	AA504137†	Price
1-37/64	9-7/8	16-7/8	5 MT	AA405137	Price	AA505137	Price
1-19/32	9-7/8	15-1/2	4 MT	AA404138†	Price	AA504138†	Price
1-19/32	9-7/8	16-7/8	5 MT	AA405138	Price	-	Price
1-39/64	10	15-5/8	4 MT	AA404139†	Price	AA504139†	Price
1-39/64	10	17	5 MT	-	-	AA505139	Price
1-5/8	10	15-5/8	4 MT	AA404140†	Price	AA504140†	Price
1-5/8	10	17	5 MT	AA405140	Price	AA505140	Price
1-41/64	10-1/8	15-3/4	4 MT	AA404141†	Price	AA504141†	Price
1-41/64	10-1/8	17-1/8	5 MT	-	-	AA505141	Price
1-21/32	10-1/8	15-3/4	4 MT	AA404142†	Price	AA504142†	Price
1-21/32	10-1/8	17-1/8	5 MT	AA405142	Price	AA505142	Price
1-43/64	10-1/8	15-3/4	4 MT	AA404143†	Price	-	Price
1-43/64	10-1/8	17-1/8	5 MT	-	-	AA505143	Price
1-11/16	10-1/8	15-3/4	4 MT	AA404144†	Price	AA504144†	Price
1-11/16	10-1/8	17-1/8	5 MT	AA405144	Price	AA505144	Price
1-45/64	10-1/8	15-3/4	4 MT	AA404145†	Price	-	Price
1-45/64	10-1/8	17-1/8	5 MT	-	-	AA505145	Price
1-23/32	10-1/8	15-3/4	4 MT	AA404146†	Price	AA504146†	Price
1-23/32	10-1/8	17-1/8	5 MT	AA405146	Price	AA505146	Price
1-47/64	10-3/8	16-1/4	4 MT	AA404147†	Price	AA504147†	Price
1-3/4	10-3/8	16-1/4	4 MT	AA404148†	Price	AA504148†	Price
1-3/4	10-1/8	17-1/8	5 MT	AA405148	Price	AA505148	Price
1-25/32	10-3/8	16-1/4	4 MT	AA404150†	Price	AA504150†	Price
1-25/32	10-1/8	17-1/8	5 MT	AA405150	Price	AA505150	Price
1-51/64	10-3/8	16-1/4	4 MT	-	-	AA504151†	Price
1-13/16	10-3/8	16-1/4	4 MT	AA404152†	Price	AA504152†	Price
1-13/16	10-1/8	17-1/8	5 MT	AA405152	Price	AA505152	Price
1-53/64	10-1/8	17-1/8	5 MT	-	-	AA505153	Price
1-27/32	10-3/8	16-1/4	4 MT	AA404154†	Price	AA504154†	Price
1-27/32	10-3/8	17-1/8	5 MT	-	-	AA505154	Price
1-55/64	10-1/8	17-3/8	5 MT	AA405155	Price	AA505155	Price
1-7/8	10-1/2	16-1/2	4 MT	AA404156†	Price	AA504156†	Price
1-7/8	10-3/8	17-3/8	5 MT	AA405156	Price	AA505156	Price
1-29/32	10-1/2	16-1/2	4 MT	AA404158†	Price	AA504158†	Price

				Generic USA		ProCut	
Size (in.)	Flute Length (in.)	OAL (in.)	Taper Shank	Order No.	Price	Order No.	Price
1-29/32	10-3/8	17-3/8	5 MT	AA405158	Price	AA505158	Price
1-15/16	10-5/8	16-5/8	4 MT	AA404160†	Price	AA504160†	Price
1-15/16	10-3/8	17-3/8	5 MT	AA405160	Price	AA505160	Price
1-61/64	10-5/8	16-5/8	4 MT	AA404161†	Price	AA504161†	Price
1-31/32	10-5/8	16-5/8	4 MT	AA404162†	Price	AA504162†	Price
1-31/32	10-3/8	17-3/8	5 MT	AA405162	Price	AA505162	Price
1-63/64	10-5/8	16-5/8	4 MT	-	-	AA504163†	Price
2	10-5/8	16-5/8	4 MT	AA404200†	Price	AA504200†	Price
2	10-3/8	17-3/8	5 MT	AA405200	Price	AA505200	Price
2-1/32	10-3/8	17-3/8	5 MT	AA405202	Price	AA505202	Price
2-1/16	10-1/4	16-5/8	4 MT	-	-	AA504204†	Price
2-1/16	10-1/4	17-3/8	5 MT	AA405204	Price	AA505204	Price
2-3/32	10-1/4	17-3/8	5 MT	-	-	AA505206	Price
2-1/8	10-1/4	16-5/8	4 MT	-	-	AA504208†	Price
2-1/8	10-1/4	17-3/8	5 MT	AA405208	Price	AA505208	Price
2-5/32	10-1/4	17-3/8	5 MT	-	-	AA505210	Price
2-3/16	10-1/4	16-5/8	4 MT	-	-	AA504212†	Price
2-3/16	10-1/4	17-3/8	5 MT	AA405212	Price	AA505212	Price
2-7/32	10-1/8	17-3/8	5 MT	AA405214	Price	AA505214	Price
2-1/4	10-1/8	16-5/8	4 MT	-	-	AA504216†	Price
2-1/4	10-1/8	17-3/8	5 MT	AA405216	Price	AA505216	Price
2-9/32	10-1/8	17-3/8	5 MT	-	-	AA505218	Price
2-5/16	10-1/8	16-5/8	4 MT	-	-	AA504220†	Price
2-5/16	10-1/8	17-3/8	5 MT	AA405220	Price	AA505220	Price
2-11/32	10-1/8	17-3/8	5 MT	-	-	AA505222	Price
2-3/8	10-1/8	16-5/8	4 MT	-	-	AA504224†	Price
2-3/8	10-1/8	17-3/8	5 MT	AA405224	Price	AA505224	Price
2-13/32	11-1/4	18-3/4	5 MT	-	-	AA505226	Price
2-7/16	10-1/4	18-1/4	4 MT	-	-	AA504228†	Price
2-7/16	11-1/4	18-3/4	5 MT	AA405228	Price	AA505228	Price
2-15/32	11-1/4	18-3/4	5 MT	-	-	AA505230	Price
2-1/2	11-1/4	17-3/8	4 MT	-	-	AA504232†	Price
2-1/2	11-1/4	18-3/4	5 MT	AA405232	Price	AA505232	Price
2-17/32	11-7/8	19-1/2	5 MT	-	-	AA505234	Price
2-9/16	11-7/8	19-1/2	5 MT	AA405236	Price	AA505236	Price
2-5/8	11-7/8	19-1/2	5 MT	AA405240	Price	AA505240	Price
2-21/32	12-3/4	20-3/8	5 MT	-	-	AA505242	Price
2-11/16	12-3/4	20-3/8	5 MT	AA405244	Price	AA505244	Price
2-3/4	12-3/4	20-3/8	5 MT	AA405248	Price	AA505248	Price
2-25/32	13-3/8	21-1/8	5 MT	-	-	AA505250	Price
2-13/16	13-3/8	21-1/8	5 MT	-	-	AA505252	Price
2-7/8	13-3/8	21-1/8	5 MT	AA405256	Price	AA505256	Price
2-15/16	14	21-3/4	5 MT	AA405260	Price	AA505260	Price
3	14	21-3/4	5 MT	AA405300	Price	-	-
3-1/8	14-1/4	22	5 MT	AA405308†	Price	-	-
3-1/8	14-5/8	24-1/2	6 MT	AA406308	Price	-	-
3-1/4	15-1/2	25-1/2	5 MT	AA405316†	Price	-	-
3-1/4	15-1/4	23	6 MT	AA406316	Price	-	-
3-7/16	15-1/2	25-1/2	6 MT	-	-	AA506328	Price
3-1/2	16-1/4	24	5 MT	AA405332†	Price	-	-

† Indicates smaller or larger shank than standard

PROCUT Extra Long Taper Shank Drills

High Speed Steel • 118° Standard Point

- See index for extra long straight shank drills



To Calculate Flute Length Deduct From Overall Length	
For 1 MT Shank	Deduct 3-3/16”
For 2 MT Shank	Deduct 3-7/8”
For 3 MT Shank	Deduct 4-3/4”
For 4 MT Shank	Deduct 5-7/8”
For 5 MT Shank	Deduct 7-3/8”
For 6 MT Shank	Deduct 10”

		12" OAL		15" OAL		18" OAL		24" OAL		30" OAL	
Size (in.)	Taper Shank	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1 MT	AL501008	Price	AL511008	Price	-	-	-	-	-	-
7/32	1 MT	AL501014	Price	-	-	-	-	-	-	-	-
1/4	1 MT	AL501016	Price	AL511016	Price	AL521016	Price	-	-	-	-
17/64	1 MT	AL501017	Price	AL511017	Price	AL521017	Price	-	-	-	-
9/32	1 MT	AL501018	Price	AL511018	Price	AL521018	Price	-	-	-	-
19/64	1 MT	AL501019	Price	AL511019	Price	-	-	-	-	-	-
5/16	1 MT	AL501020	Price	AL511020	Price	AL521020	Price	-	-	-	-
21/64	1 MT	AL501021	Price	AL511021	Price	AL521021	Price	-	-	-	-
11/32	1 MT	AL501022	Price	AL511022	Price	AL521022	Price	-	-	-	-
23/64	1 MT	AL501023	Price	AL511023	Price	-	-	-	-	-	-
3/8	1 MT	AL501024	Price	AL511024	Price	AL521024	Price	AL531024	Price	-	-
25/64	1 MT	AL501025	Price	AL511025	Price	AL521025	Price	-	-	-	-
13/32	1 MT	AL501026	Price	AL511026	Price	AL521026	Price	AL531026	Price	-	-
27/64	1 MT	AL501027	Price	AL511027	Price	AL521027	Price	AL531027	Price	-	-
7/16	1 MT	AL501028	Price	AL511028	Price	AL521028	Price	AL531028	Price	-	-
29/64	1 MT	AL501029	Price	AL511029	Price	AL521029	Price	-	-	-	-
15/32	1 MT	AL501030	Price	AL511030	Price	-	-	AL531030	Price	-	-
15/32	2 MT	-	-	-	-	AL522030	Price	-	-	-	-
31/64	1 MT	-	-	-	-	AL521031	Price	-	-	-	-
31/64	2 MT	AL502031	Price	AL512031	Price	AL522031	Price	AL532031	Price	-	-
1/2	2 MT	AL502032	Price	AL512032	Price	AL522032	Price	AL532032	Price	-	-
33/64	2 MT	AL502033	Price	AL512033	Price	AL522033	Price	-	-	-	-
17/32	2 MT	AL502034	Price	AL512034	Price	AL522034	Price	AL532034	Price	-	-
35/64	2 MT	AL502035	Price	AL512035	Price	AL522035	Price	-	-	-	-
9/16	2 MT	AL502036	Price	AL512036	Price	AL522036	Price	AL532036	Price	-	-
37/64	2 MT	AL502037	Price	AL512037	Price	AL522037	Price	AL532037	Price	-	-
19/32	2 MT	AL502038	Price	AL512038	Price	AL522038	Price	AL532038	Price	-	-
39/64	2 MT	AL502039	Price	AL512039	Price	AL522039	Price	AL532039	Price	-	-
5/8	2 MT	AL502040	Price	AL512040	Price	AL522040	Price	AL532040	Price	-	-
41/64	2 MT	AL502041	Price	AL512041	Price	AL522041	Price	AL532041	Price	-	-
21/32	2 MT	AL502042	Price	AL512042	Price	AL522042	Price	AL532042	Price	-	-
43/64	2 MT	AL502043	Price	AL512043	Price	AL522043	Price	-	-	-	-
11/16	2 MT	AL502044	Price	AL512044	Price	AL522044	Price	-	-	-	-
45/64	2 MT	AL502045	Price	AL512045	Price	AL522045	Price	AL532045	Price	-	-
23/32	2 MT	AL502046	Price	AL512046	Price	AL522046	Price	AL532046	Price	-	-
47/64	2 MT	AL502047	Price	AL512047	Price	-	-	-	-	-	-
3/4	2 MT	AL502048	Price	AL512048	Price	AL522048	Price	AL532048	Price	AL542048	Price
49/64	2 MT	AL502049	Price	AL512049	Price	AL522049	Price	-	-	-	-
25/32	2 MT	AL502050	Price	AL512050	Price	AL522050	Price	AL532050	Price	-	-
51/64	3 MT	AL503051	Price	-	-	-	-	-	-	-	-
13/16	3 MT	AL503052	Price	AL513052	Price	AL523052	Price	AL533052	Price	-	-
53/64	3 MT	AL503053	Price	AL513053	Price	AL523053	Price	AL533053	Price	-	-
27/32	2 MT	-	-	-	-	-	-	-	-	-	-
27/32	3 MT	AL503054	Price	AL513054	Price	-	-	AL533054	Price	-	-
55/64	3 MT	-	-	-	-	AL523055	Price	-	-	-	-
7/8	3 MT	AL503056	Price	AL513056	Price	AL523056	Price	AL533056	Price	AL543056	Price
57/64	3 MT	-	-	AL513057	Price	AL523057	Price	-	-	-	-
29/32	3 MT	-	-	AL513058	Price	AL523058	Price	AL533058	Price	-	-
59/64	3 MT	-	-	AL513059	Price	AL523059	Price	AL533059	Price	-	-
15/16	3 MT	-	-	AL513060	Price	AL523060	Price	AL533060	Price	AL543060	Price
61/64	3 MT	-	-	AL513061	Price	AL523061	Price	-	-	-	-

PROCUT Extra Long Taper Shank Drills (cont.)

High Speed Steel • 118° Standard Point

- See index for extra long straight shank drills



To Calculate Flute Length Deduct From Overall Length	
For 1 MT Shank	Deduct 3-3/16”
For 2 MT Shank	Deduct 3-7/8”
For 3 MT Shank	Deduct 4-3/4”
For 4 MT Shank	Deduct 5-7/8”
For 5 MT Shank	Deduct 7-3/8”
For 6 MT Shank	Deduct 10”

		12" OAL		15" OAL		18" OAL		24" OAL		30" OAL	
Size (in.)	Taper Shank	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
31/32	3 MT	-	-	AL513062	Price	AL523062	Price	AL533062	Price	-	-
63/64	3 MT	-	-	AL513063	Price	AL523063	Price	AL533063	Price	-	-
1	3 MT	-	-	AL513100	Price	AL523100	Price	AL533100	Price	AL543100	Price
1-1/64	3 MT	-	-	AL513101	Price	AL523101	Price	AL533101	Price	-	-
1-1/32	3 MT	-	-	AL513102	Price	AL523102	Price	AL533102	Price	-	-
1-3/64	3 MT	-	-	-	-	AL523103	Price	-	-	-	-
1-1/16	3 MT	-	-	AL513104	Price	AL523104	Price	AL533104	Price	AL543104	Price
1-3/32	4 MT	-	-	AL514106	Price	AL524106	Price	AL534106	Price	-	-
1-7/64	4 MT	-	-	AL514107	Price	AL524107	Price	-	-	-	-
1-1/8	4 MT	-	-	AL514108	Price	AL524108	Price	AL534108	Price	AL544108	Price
1-9/64	4 MT	-	-	-	-	AL524109	Price	-	-	-	-
1-5/32	4 MT	-	-	-	-	AL524110	Price	AL534110	Price	-	-
1-11/64	4 MT	-	-	AL514111	Price	AL524111	Price	AL534111	Price	-	-
1-3/16	4 MT	-	-	AL514112	Price	AL524112	Price	AL534112	Price	-	
Price	4 MT	-	-	AL514114	Price	AL524114	Price	AL534114	Price	-	-
1-15/64	4 MT	-	-	-	-	AL524115	Price	-	-	-	-
1-1/4	4 MT	-	-	AL514116	Price	AL524116	Price	AL534116	Price	AL544116	Price
1-17/64	4 MT	-	-	-	-	AL524117	Price	-	-	-	-
1-9/32	4 MT	-	-	-	-	AL524118	Price	AL534118	Price	-	-
1-19/64	4 MT	-	-	-	-	-	-	AL534119	Price	-	-
1-5/16	4 MT	-	-	AL514120	Price	AL524120	Price	AL534120	Price	AL544120	Price
1-21/64	4 MT	-	-	-	-	AL524121	Price	-	-	-	-
1-11/32	4 MT	-	-	-	-	AL524122	Price	AL534122	Price	-	-
1-23/64	4 MT	-	-	-	-	AL524123	Price	-	-	-	-
1-3/8	4 MT	-	-	-	-	AL524124	Price	AL534124	Price	-	-
1-25/64	4 MT	-	-	-	-	AL524125	Price	AL534125	Price	-	-
1-13/32	4 MT	-	-	-	-	AL524126	Price	AL534126	Price	-	-
1-27/64	4 MT	-	-	-	-	AL524127	Price	AL534127	Price	-	-
1-27/32	4 MT	-	-	-	-	-	-	-	-	-	-
1-27/32	5 MT	-	-	-	-	AL525154	Price	AL535154	Price	AL545154	Price
1-7/16	4 MT	-	-	-	-	AL524128	Price	AL534128	Price	-	-
1-15/32	4 MT	-	-	-	-	AL524130	Price	AL534130	Price	-	-
1-31/64	4 MT	-	-	-	-	AL524131	Price	AL534131	Price	-	-
1-1/2	4 MT	-	-	-	-	AL524132	Price	AL534132	Price	AL544132	Price
1-17/32	5 MT	-	-	-	-	AL525134	Price	AL535134	Price	AL545134	Price
1-9/16	5 MT	-	-	-	-	AL525136	Price	AL535136	Price	-	-
1-19/32	5 MT	-	-	-	-	-	-	AL535138	Price	-	-
1-5/8	5 MT	-	-	-	-	AL525140	Price	AL535140	Price	AL545140	Price
1-21/32	5 MT	-	-	-	-	-	-	AL535142	Price	-	-
1-11/16	5 MT	-	-	-	-	AL525144	Price	AL535144	Price	-	-
1-23/32	5 MT	-	-	-	-	AL525146	Price	AL535146	Price	-	-
1-3/4	5 MT	-	-	-	-	AL525148	Price	AL535148	Price	AL545148	Price
1-25/32	5 MT	-	-	-	-	AL525150	Price	AL535150	Price	-	-
1-13/16	5 MT	-	-	-	-	AL525152	Price	AL535152	Price	-	-
1-7/8	4 MT	-	-	-	-	-	-	-	-	-	-
1-7/8	5 MT	-	-	-	-	AL525156	Price	-	-	AL545156	Price
1-29/32	5 MT	-	-	-	-	AL525158	Price	-	-	-	-
1-15/16	4 MT	-	-	-	-	-	-	-	-	-	-
1-15/16	5 MT	-	-	-	-	AL525160	Price	-	-	-	-
1-31/32	5 MT	-	-	-	-	-	-	AL535162	Price	-	-
2	5 MT	-	-	-	-	AL525200	Price	AL535200	Price	-	-

PROCUT Heavy Duty Taper Shank Drills

Cobalt



- Heavy-duty construction
- For tough, hard-to-machine materials

Size (in.)	Taper Shank	Flute Length (in.)	OAL (in.)	Order No.	Price
1/4	1 MT	2-7/8	6-1/8	**AA60016**	Price
9/32	1 MT	3	6-1/4	**AA60018**	Price
5/16	1 MT	3-1/8	6-3/8	**AA60020**	Price
11/32	1 MT	3-1/4	6-1/2	**AA60022**	Price
3/8	2 MT	3-1/2	7-3/8	**AA60024**	Price
13/32	2 MT	3-5/8	7-1/2	**AA60026**	Price
27/64	2 MT	3-7/8	7-3/4	**AA60027**	Price
7/16	2 MT	3-7/8	7-3/4	**AA60028**	Price
15/32	2 MT	4-1/8	8	**AA60030**	Price
1/2	2 MT	4-3/8	8-1/4	**AA60032**	Price
17/32	2 MT	4-5/8	8-1/2	**AA60034**	Price
9/16	2 MT	4-7/8	8-3/4	**AA60036**	Price
19/32	2 MT	4-7/8	8-3/4	**AA60038**	Price
5/8	2 MT	4-7/8	8-3/4	**AA60040**	Price
21/32	3 MT	5-1/8	9-3/4	**AA60042**	Price
11/16	3 MT	5-3/8	10	**AA60044**	Price
23/32	3 MT	5-5/8	10-1/4	**AA60046**	Price
3/4	3 MT	5-7/8	10-1/2	**AA60048**	Price
25/32	3 MT	6	10-5/8	**AA60050**	Price
13/16	3 MT	6-1/8	10-3/4	**AA60052**	Price
27/32	3 MT	6-1/8	10-3/4	**AA60054**	Price
7/8	3 MT	6-1/8	10-3/4	**AA60056**	Price
29/32	3 MT	6-1/8	10-3/4	**AA60058**	Price
15/16	3 MT	6-1/8	10-3/4	**AA60060**	Price
31/32	3 MT	6-1/8	10-3/4	**AA60062**	Price
1	3 MT	6-3/8	11	**AA60100**	Price
1-1/16	4 MT	6-5/8	12-5/32	**AA60104**	Price
1-1/8	4 MT	7-1/8	12-3/4	**AA60108**	Price
1-3/16	4 MT	7-3/8	13	**AA60112**	Price
1-13/64	4 MT	7-1/2	13-1/8	**AA60113**	Price
1-1/4	4 MT	7-7/8	13-1/2	**AA60116**	Price
1-5/16	4 MT	8-5/8	15-5/8	**AA60120**	Price
1-3/8	4 MT	8-7/8	15-7/8	**AA60124**	Price
1-27/64	4 MT	9-1/8	14-3/4	**AA60127**	Price
1-7/16	4 MT	9-1/8	16-1/8	**AA60128**	Price
1-1/2	4 MT	9-3/8	16-3/8	**AA60132**	Price

PROCUT Taper Shank Drills — Stub Length

High Speed Steel



- 5” Flute length (approx.)
- 12” Overall length

Size (in.)	Taper Shank	Order No.	Price
2	4 MT	**AN504200**	Price
2	5 MT	**AN505200**	Price
2-1/16	4 MT	**AN504201**	Price
2-1/16	5 MT	**AN505201**	Price
2-1/8	4 MT	**AN504202**	Price
2-1/8	5 MT	**AN505202**	Price
2-3/16	4 MT	**AN504203**	Price
2-3/16	5 MT	**AN505203**	Price
2-1/4	4 MT	**AN504204**	Price
2-1/4	5 MT	**AN505204**	Price
2-5/16	4 MT	**AN504205**	Price
2-5/16	5 MT	**AN505205**	Price
2-3/8	4 MT	**AN504206**	Price
2-3/8	5 MT	**AN505206**	Price
2-7/16	4 MT	**AN504207**	Price
2-1/2	4 MT	**AN504208**	Price
2-1/2	5 MT	**AN505208**	Price
2-9/16	4 MT	**AN504209**	Price
2-9/16	5 MT	**AN505209**	Price
2-5/8	4 MT	**AN504210**	Price
2-5/8	5 MT	**AN505210**	Price
2-11/16	5 MT	**AN505211**	Price
2-3/4	4 MT	**AN504212**	Price
2-3/4	5 MT	**AN505212**	Price
2-13/16	5 MT	**AN505213**	Price
2-7/8	4 MT	**AN504214**	Price
2-7/8	5 MT	**AN505214**	Price
2-15/16	4 MT	**AN504215**	Price
2-15/16	5 MT	**AN505215**	Price
3	4 MT	**AN504300**	Price
3	5 MT	**AN505300**	Price
3-1/8	5 MT	**AN505302**	Price
3-1/4	5 MT	**AN505304**	Price
3-3/8	5 MT	**AN505306**	Price
3-1/2	5 MT	**AN505308**	Price

PROCUT Metric Taper Shank Drills

High Speed Steel • 118° Standard Point • Surface Treated



- Many in-between metric sizes in stock not shown below - call us.

Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Taper Shank	Order No.	Price
3mm	.1181	1-7/8	5-1/8	1 MT	**AA65300**	Price
3.8mm	.1496	2-1/8	5-3/8	1 MT	**AA65380**	Price
4mm	.1575	2-1/2	5-3/4	1 MT	**AA65400**	Price
4.2mm	.1654	2-1/2	5-3/4	1 MT	**AA65420**	Price
4.5mm	.1772	2-1/2	5-3/4	1 MT	**AA65450**	Price
5.2mm	.2047	2-3/4	6	1 MT	**AA65520**	Price
5.5mm	.2165	2-3/4	6	1 MT	**AA65550**	Price
5.8mm	.2283	2-7/8	6-1/8	1 MT	**AA65580**	Price
6mm	.2362	2-7/8	6-1/8	1 MT	**AA65600**	Price
6.2mm	.2441	2-7/8	6-1/8	1 MT	**AA65620**	Price
6.5mm	.2559	3	6-1/4	1 MT	**AA65650**	Price
6.8mm	.2677	3	6-1/4	1 MT	**AA65680**	Price
7mm	.2756	3	6-1/4	1 MT	**AA65700**	Price
7.2mm	.2835	3-1/8	6-3/8	1 MT	**AA65720**	Price
8mm	.3150	3-1/4	6-1/2	1 MT	**AA65800**	Price
8.2mm	.3228	3-1/4	6-1/2	1 MT	**AA65820**	Price
8.5mm	.3346	3-1/4	6-1/2	1 MT	**AA65850**	Price
8.8mm	.3465	3-1/2	6-3/4	1 MT	**AA65880**	Price
9mm	.3543	3-1/2	6-3/4	1 MT	**AA65900**	Price
9.2mm	.3622	3-1/2	6-3/4	1 MT	**AA65920**	Price
9.5mm	.3740	3-1/2	6-3/4	1 MT	**AA65950**	Price
9.8mm	.3858	3-5/8	7	1 MT	**AA65980**	Price
10mm	.3937	3-5/8	7	1 MT	**AA651000**	Price
10.5mm	.4134	3-7/8	7-1/4	1 MT	**AA651050**	Price
10.8mm	.4252	3-7/8	7-1/4	1 MT	**AA651080**	Price
11mm	.4331	3-7/8	7-1/4	1 MT	**AA651100**	Price

Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Taper Shank	Order No.	Price
11.2mm	.4409	4-1/8	7-1/2	1 MT	**AA651120**	Price
11.5mm	.4528	4-1/8	7-1/2	1 MT	**AA651150**	Price
11.8mm	.4646	4-1/8	7-1/2	1 MT	**AA651180**	Price
12mm	.4724	4-3/8	8-1/4	2 MT	**AA651200**	Price
12.2mm	.4803	4-3/8	8-1/4	2 MT	**AA651220**	Price
12.5mm	.4921	4-3/8	8-1/4	2 MT	**AA651250**	Price
13mm	.5118	4-5/8	8-1/2	2 MT	**AA651300**	Price
13.2mm	.5197	4-5/8	8-1/2	2 MT	**AA651320**	Price
13.5mm	.5315	4-5/8	8-1/2	2 MT	**AA651350**	Price
14mm	.5512	4-7/8	8-3/4	2 MT	**AA651400**	Price
14.5mm	.5709	4-7/8	8-3/4	2 MT	**AA651450**	Price
14.75mm	.5807	4-7/8	8-3/4	2 MT	**AA651475**	Price
15mm	.5906	4-7/8	8-3/4	2 MT	**AA651500**	Price
15.25mm	.6004	4-7/8	8-3/4	2 MT	**AA651525**	Price
15.5mm	.6102	4-7/8	8-3/4	2 MT	**AA651550**	Price
15.75mm	.6201	4-7/8	8-3/4	2 MT	**AA651575**	Price
16mm	.6299	5-1/8	9	2 MT	**AA651600**	Price
16.25mm	.6398	5-1/8	9	2 MT	**AA651625**	Price
16.5mm	.6496	5-1/8	9	2 MT	**AA651650**	Price
16.75mm	.6594	5-3/8	9-1/4	2 MT	**AA651675**	Price
17mm	.6693	5-3/8	9-1/4	2 MT	**AA651700**	Price
17.25mm	.6791	5-3/8	9-1/4	2 MT	**AA651725**	Price
17.5mm	.6890	5-5/8	9-1/2	2 MT	**AA651750**	Price
18mm	.7087	5-5/8	9-1/2	2 MT	**AA651800**	Price
18.5mm	.7283	5-7/8	9-3/4	2 MT	**AA651850**	Price
19mm	.7480	5-7/8	9-3/4	2 MT	**AA651900**	Price

(continued on next page)

PROCUT Metric Taper Shank Drills (cont.)



Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Taper Shank	Order No.	Price
19.5mm	.7677	6	9-7/8	2 MT	**AA651950**	Price
20mm	.7874	6-1/8	10-3/4	3 MT	**AA652000**	Price
20.5mm	.8071	6-1/8	10-3/4	3 MT	**AA652050**	Price
21mm	.8268	6-1/8	10-3/4	3 MT	**AA652100**	Price
21.5mm	.8465	6-1/8	10-3/4	3 MT	**AA652150**	Price
22mm	.8661	6-1/8	10-3/4	3 MT	**AA652200**	Price
22.5mm	.8858	6-1/8	10-3/4	3 MT	**AA652250**	Price
23mm	.9055	6-1/8	10-3/4	3 MT	**AA652300**	Price
23.5mm	.9252	6-1/8	10-3/4	3 MT	**AA652350**	Price
24mm	.9449	6-3/8	11	3 MT	**AA652400**	Price
24.5mm	.9646	6-3/8	11	3 MT	**AA652450**	Price
25mm	.9843	6-3/8	11	3 MT	**AA652500**	Price
25.5mm	1.0039	6-1/2	11-1/8	3 MT	**AA652550**	Price
26mm	1.0236	6-1/2	11-1/8	3 MT	**AA652600**	Price
26.5mm	1.0433	6-5/8	11-1/4	3 MT	**AA652650**	Price
27mm	1.0630	6-5/8	11-1/4	3 MT	**AA652700**	Price
28mm	1.1024	7-1/8	12-3/4	4 MT	**AA652800**	Price
28.5mm	1.1220	7-1/8	12-3/4	4 MT	**AA652850**	Price
29mm	1.1417	7-1/4	12-7/8	4 MT	**AA652900**	Price
30mm	1.1811	7-3/8	13	4 MT	**AA653000**	Price
30.5mm	1.2008	7-1/2	13-1/8	4 MT	**AA653050**	Price
31mm	1.2205	7-7/8	13-1/2	4 MT	**AA653100**	Price

Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Taper Shank	Order No.	Price
31.5mm	1.2402	7-7/8	13-1/2	4 MT	**AA653150**	Price
32mm	1.2598	8-1/2	14-1/8	4 MT	**AA653200**	Price
32.5mm	1.2795	8-1/2	14-1/8	4 MT	**AA653250**	Price
33mm	1.2992	8-5/8	14-1/4	4 MT	**AA653300**	Price
34mm	1.3386	8-3/4	14-3/8	4 MT	**AA653400**	Price
34.5mm	1.3583	8-7/8	14-1/2	4 MT	**AA653450**	Price
35mm	1.3780	9	14-5/8	4 MT	**AA653500**	Price
36mm	1.4173	9-1/8	14-3/4	4 MT	**AA653600**	Price
36.5mm	1.4370	9-1/8	14-3/4	4 MT	**AA653650**	Price
37mm	1.4567	9-1/4	14-7/8	4 MT	**AA653700**	Price
37.5mm	1.4764	9-3/8	15	4 MT	**AA653750**	Price
38mm	1.4961	9-3/8	15	4 MT	**AA653800**	Price
39mm	1.5354	9-5/8	16-5/8	5 MT	**AA653900**	Price
40mm	1.5748	9-7/8	16-7/8	5 MT	**AA654000**	Price
41mm	1.6142	10	17	5 MT	**AA654100**	Price
43mm	1.6929	10-1/8	17-1/8	5 MT	**AA654300**	Price
45mm	1.7717	10-1/8	17-1/8	5 MT	**AA654500**	Price
46mm	1.8110	10-1/8	17-3/8	5 MT	**AA654600**	Price
48mm	1.8898	10-3/8	17-3/8	5 MT	**AA654800**	Price
49mm	1.9291	10-3/8	17-3/8	5 MT	**AA654900**	Price
50mm	1.9685	10-3/8	17-3/8	5 MT	**AA655000**	Price

Taper Shank Core Drills

High Speed Steel • 3 Flute and 4 Flute



- Used for enlarging holes that have been previously drilled, cored or punched
- Many in-between sizes are available from stock at standard prices

				3 Flute		4 Flute	
Size	Flute Length	OAL	Taper Shank	Order No.	Price	Order No.	Price
11/32	3-1/4	6-1/2	1MT	**AG51022**	Price	**-**	-
3/8	3-1/2	6-3/4	1MT	**AG51024**	Price	**AG50024**	Price
13/32	3-5/8	7	1MT	**AG51026**	Price	**AG50026**	Price
7/16	3-7/8	7-1/4	1MT	**AG51028**	Price	**AG50028**	Price
15/32	4-1/8	7-1/2	1MT	**AG51030**	Price	**AG50030**	Price
1/2	4-3/8	8-1/4	2MT	**AG51032**	Price	**AG50032**	Price
17/32	4-5/8	8-1/2	2MT	**AG51034**	Price	**AG50034**	Price
9/16	4-7/8	8-3/4	2MT	**AG51036**	Price	**AG50036**	Price
19/32	4-7/8	8-3/4	2MT	**AG51038**	Price	**AG50038**	Price
5/8	4-7/8	8-3/4	2MT	**AG51040**	Price	**AG50040**	Price
21/32	5-1/8	9	2MT	**-**	-	**AG50042**	Price
11/16	5-3/8	9-1/4	2MT	**AG51044**	Price	**AG50044**	Price
23/32	5-5/8	9-1/2	2MT	**AG51046**	Price	**-**	-
3/4	5-7/8	9-3/4	2MT	**AG51048**	Price	**AG50048**	Price
25/32	6	9-7/8	2MT	**AG51050**	Price	**AG50050**	Price
13/16	6-1/8	10-3/4	3MT	**-**	-	**AG50052**	Price
7/8	6-1/8	10-3/4	3MT	**AG51056**	Price	**AG50056**	Price
29/32	6-1/8	10-3/4	3MT	**AG51058**	Price	**AG50058**	Price
15/16	6-1/8	10-3/4	3MT	**AG51060**	Price	**AG50060**	Price
31/32	6-3/8	11	3MT	**AG51062**	Price	**AG50062**	Price
1	6-3/8	11	3MT	**-**	-	**AG50100**	Price
1-1/32	6-1/2	11-1/8	3MT	**-**	-	**AG50102**	Price
1-1/16	6-5/8	11-1/4	3MT	**AG51104**	Price	**AG50104**	Price
1-3/32	6-7/8	12-1/2	4MT	**AG51106**	Price	**AG50106**	Price
1-1/8	7-1/8	12-3/4	4MT	**-**	-	**AG50108**	Price
1-5/32	7-1/4	12-7/8	4MT	**-**	-	**AG50110**	Price
1-3/16	7-3/8	13	4MT	**AG51112**	Price	**AG50112**	Price
1-7/32	7-1/2	13-1/8	4MT	**-**	-	**AG50114**	Price
1-1/4	7-5/8	13-1/2	4MT	**AG51116**	Price	**AG50116**	Price

				3 Flute		4 Flute	
Size	Flute Length	OAL	Taper Shank	Order No.	Price	Order No.	Price
1-9/32	8-1/2	14-1/8	4MT	**-**	-	**AG50118**	Price
1-5/16	8-5/8	14-1/4	4MT	**AG51120**	Price	**AG50120**	Price
1-11/32	8-3/4	14-3/8	4MT	**AG51122**	Price	**AG50122**	Price
1-3/8	8-7/8	14-1/2	4MT	**AG51124**	Price	**AG50124**	Price
1-7/16	9-1/8	14-3/4	4MT	**AG51128**	Price	**AG50128**	Price
1-1/2	9-3/8	15	4MT	**-**	-	**AG50132**	Price
1-19/32	9-7/8	16-7/8	5MT	**-**	-	**AG50138**	Price
1-5/8	10	17	5MT	**-**	-	**AG50140**	Price
1-21/32	10-1/8	17-1/8	5MT	**AG51142**	Price	**AG50142**	Price
1-11/16	10-1/8	17-1/8	5MT	**-**	-	**AG50144**	Price
1-3/4	10-1/8	17-1/8	5MT	**-**	-	**AG50148**	Price
1-25/32	10-1/8	17-1/8	5MT	**-**	-	**AG50150**	Price
1-13/16	10-1/8	17-1/8	5MT	**AG51152**	Price	**AG50152**	Price
1-27/32	10-1/8	17-1/8	5MT	**AG51154**	Price	**AG50154**	Price
1-7/8	10-3/8	17-3/8	5MT	**-**	-	**AG50156**	Price
1-29/32	10-3/8	17-3/8	5MT	**-**	-	**AG50158**	Price
1-15/16	10-3/8	17-3/8	5MT	**-**	-	**AG50160**	Price
2	10-3/8	17-3/8	5MT	**-**	-	**AG50200**	Price
2-1/16	10-1/4	17-3/8	5MT	**-**	-	**AG50204**	Price
2-1/8	10-1/4	17-3/8	5MT	**-**	-	**AG50208**	Price
2-3/16	10-1/4	17-3/8	5MT	**-**	-	**AG50212**	Price
2-1/4	10-3/8	17-3/8	5MT	**-**	-	**AG50216**	Price
2-5/16	10-3/8	17-3/8	5MT	**-**	-	**AG50220**	Price
2-7/16	11-1/4	18-3/4	5MT	**-**	-	**AG50228**	Price
2-1/2	11-1/4	18-3/4	5MT	**-**	-	**AG50232**	Price
2-5/8	11-7/8	19-1/2	5MT	**-**	-	**AG50240**	Price
2-3/4	12-3/4	20-3/8	5MT	**-**	-	**AG50248**	Price
3	14	21-3/4	5MT	**-**	-	**AG50300**	Price

Straight Shank Core Drills

High Speed Steel • 3 Flute and 4 Flute

- Many 64th sizes in stock-use next higher price



			3 Flute		4 Flute	
Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/4	3-3/4	6-1/8	**AH50016**	Price	**AH51016**	Price
9/32	3-7/8	6-1/4	**AH50018**	Price	**AH51018**	Price
5/16	4	6-3/8	**AH50020**	Price	**AH51020**	Price
11/32	4-1/8	6-1/2	**AH50022**	Price	**AH51022**	Price
3/8	4-1/4	6-3/4	**AH50024**	Price	**AH51024**	Price
13/32	4-3/8	7	**AH50026**	Price	**AH51026**	Price
7/16	4-5/8	7-1/4	**AH50028**	Price	**AH51028**	Price
15/32	4-3/4	7-1/2	**AH50030**	Price	**AH51030**	Price
1/2	4-3/4	7-1/2	**AH50032**	Price	**AH51032**	Price
17/32	4-3/4	8	**AH50034**	Price	**AH51034**	Price
9/16	4-7/8	8-1/4	**AH50036**	Price	**AH51036**	Price
19/32	4-7/8	8-3/4	**AH50038**	Price	**AH51038**	Price
5/8	4-7/8	8-3/4	**AH50040**	Price	**AH51040**	Price
21/32	5-1/8	9	**AH50042**	Price	**AH51042**	Price
11/16	5-3/8	9-1/4	**AH50044**	Price	**AH51044**	Price
23/32	5-5/8	9-1/2	**-**	-	**AH51046**	Price
3/4	5-7/8	9-3/4	**AH50048**	Price	**AH51048**	Price
25/32	6	9-7/8	**AH50050**	Price	**AH51050**	Price
13/16	6-1/8	10	**-**	-	**AH51052**	Price
27/32	6-1/8	10	**AH50054**	Price	**AH51054**	Price
7/8	6-1/8	10	**AH50056**	Price	**AH51056**	Price
29/32	6-1/8	10	**AH50058**	Price	**AH51058**	Price
15/16	6-1/8	10-3/4	**-**	-	**AH51060**	Price
31/32	6-3/8	11	**-**	-	**AH51062**	Price
1	6-3/8	11	**AH50100**	Price	**AH51100**	Price
1-1/32	6-1/2	11-1/8	**-**	-	**AH51102**	Price
1-1/16	6-5/8	11-1/4	**-**	-	**AH51104**	Price
1-3/32	6-7/8	11-1/2	**-**	-	**AH51106**	Price
1-1/8	7-1/8	11-3/4	**-**	-	**AH51108**	Price
1-5/32	7-1/4	11-7/8	**-**	-	**AH51110**	Price
1-3/16	7-3/8	12	**-**	-	**AH51112**	Price
1-1/4	7-7/8	12-1/2	**-**	-	**AH51116**	Price
1-5/16	8-5/8	14-1/4	**-**	-	**AH51120**	Price
1-3/8	8-7/8	14-1/2	**-**	-	**AH51124**	Price
1-7/16	9-1/8	14-3/4	**-**	-	**AH51128**	Price
1-1/2	9-3/8	15	**-**	-	**AH51132**	Price

Straight Shank Oil Hole Drills

High Speed Steel • 118° Point

- Designed with coolant holes to help flush chips out of the hole to reduce heat and chip packing problems common to deep hole drilling applications
- Surface speeds may be increased 30% or more over standard drill styles



- Available from stock in many special diameters & odd lengths at savings of up to 75%
- Slow spiral flute also available. Please inquire.

Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
5/16	4	6-3/8	**AJ51020**	Price
3/8	4-1/4	6-3/4	**AJ51024**	Price
13/32	4-3/8	7	**AJ51026**	Price
7/16	4-5/8	7-1/4	**AJ51028**	Price
15/32	4-7/8	7-1/2	**AJ51030**	Price
1/2	5	7-3/4	**AJ51032**	Price
17/32	5-1/4	8	**AJ51034**	Price
9/16	5-3/8	8-1/4	**AJ51036**	Price
19/32	5-5/8	8-1/2	**AJ51038**	Price
5/8	5-3/4	8-3/4	**AJ51040**	Price
21/32	5-7/8	9	**AJ51042**	Price
11/16	6	9-1/4	**AJ51044**	Price
23/32	6-3/16	9-1/2	**AJ51046**	Price
3/4	6-3/8	9-3/4	**AJ51048**	Price
25/32	6-1/2	9-7/8	**AJ51050**	Price
7/8	7	10-1/2	**AJ51056**	Price
61/64	7-1/8	10-7/8	**AJ51061**	Price
31/32	7-1/8	10-7/8	**AJ51062**	Price
63/64	7-3/16	11	**AJ51063**	Price
1	7-3/16	11	**AJ51100**	Price
1-1/32	7-5/16	11-1/8	**AJ51102**	Price
1-1/16	7-3/8	11-1/4	**AJ51104**	Price
1-1/8	7-7/8	11-3/4	**AJ51108**	Price
1-5/32	8	11-7/8	**AJ51110**	Price
1-3/16	8-1/8	12	**AJ51112**	Price
1-7/32	8-1/8	12-1/8	**AJ51114**	Price
1-5/16	9-1/4	14-1/4	**AJ51120**	Price
1-9/16	9-5/8	15-1/4	**AJ51136**	Price
1-13/16	10-1/2	16-1/4	**AJ51152**	Price

Coolant Inducer Sockets

For use with Taper Shank Oil Hole Drills



Morse Taper Hole & Shank Size	OAL (in.)	Order No.	Price
3	8-1/2	**AJ50CIS3**	Price

Taper Shank Oil Hole Drills

High Speed Steel • 118° Point

- These drills feature coolant passages throughout the length of the body
- Coolant holes allow coolant (air, oil or vapor mist) to reach the cutting edges to cool, lubricate and aid in the extraction of chips



Size (in.)	Flute Length (in.)	OAL (in.)	Taper Shank	Order No.	Price
3/8	3-1/2	7-5/8	2 MT	**AJ50024**	Price
25/64	3-5/8	8	2 MT	**AJ50025**	Price
31/64	4-3/8	9	3 MT	**AJ50031**	Price
1/2	4-3/8	9	3 MT	**AJ50032**	Price
17/32	4-5/8	9-1/4	3 MT	**AJ50034**	Price
9/16	4-7/8	9-1/2	3 MT	**AJ50036**	Price
39/64	4-7/8	9-1/2	3 MT	**AJ50039**	Price
5/8	4-7/8	9-1/2	3 MT	**AJ50040**	Price
43/64	5-3/8	10	3 MT	**AJ50043**	Price
11/16	5-3/8	10	3 MT	**AJ50044**	Price
3/4	5-7/8	10-1/2	3 MT	**AJ50048**	Price
49/64	6	10-5/8	3 MT	**AJ50049**	Price
13/16	6-1/8	10-3/4	3 MT	**AJ50052**	Price
7/8	6-1/8	10-3/4	3 MT	**AJ50056**	Price
29/32	6-1/8	10-3/4	3 MT	**AJ50058**	Price
15/16	6-1/8	10-3/4	3 MT	**AJ50060**	Price
31/32	6-3/8	11	3 MT	**AJ50062**	Price
1	6-3/8	11	3 MT	**AJ50100**	Price
1-9/32	8-1/2	14-1/8	4 MT	**AJ50118**	Price

Extra Length Taper Shank Oil Hole Drills

High Speed Steel • 118° Point



		12-1/2		14-1/2	
Size (in.)	Taper Shank	Order No.	Price	Order No.	Price
17/32	3 MT	**-**	-	**AJ5010034**	Price
5/8	3 MT	**-**	-	**AJ5010040**	Price
23/32	3 MT	**-**	-	**AJ5010046**	Price
7/8	3 MT	**AJ508056**	Price	**-**	-

RAPIDKUT® Carbide Tipped Drills For Hardened Steel

118° Point

- Recommended for drilling hardened steels 45 to 65 Rockwell
- Use light feed with steady pressure-frequently flood the point with coolant
- **NOTE:** Sizes below 3/16" are solid carbide spade type, not the fluted type shown



Size (in.)	Dec. Equiv.	OAL (in.)	Order No.	Price
1/16	.0625	1-1/2	**AW59004**	Price
3/32	.0938	1-1/2	**AW59006**	Price
1/8	.1250	1-1/2	**AW59008**	Price
5/32	.1562	2	**AW59010**	Price
3/16	.1875	3-1/2	**AW59012**	Price
13/64	.2031	3-3/4	**AW59013**	Price
7/32	.2188	2-3/4	**AW59014**	Price
15/64	.2344	4	**AW59015**	Price
1/4	.2500	4	**AW59016**	Price
17/64	.2656	4-1/4	**AW59017**	Price
9/32	.2812	4-1/4	**AW59018**	Price
19/64	.2969	4-1/2	**AW59019**	Price
5/16	.3125	4-1/2	**AW59020**	Price
21/64	.3281	4-3/4	**AW59021**	Price
11/32	.3438	4-3/4	**AW59022**	Price
23/64	.3594	5	**AW59023**	Price
3/8	.3750	5	**AW59024**	Price
25/64	.3906	5-1/4	**AW59025**	Price
13/32	.4062	5-1/4	**AW59026**	Price
27/64	.4219	5-1/2	**AW59027**	Price
7/16	.4375	5-1/2	**AW59028**	Price
29/64	.4531	5-3/4	**AW59029**	Price
15/32	.4688	5-3/4	**AW59030**	Price
31/64	.4844	6	**AW59031**	Price

Size (in.)	Dec. Equiv.	OAL (in.)	Order No.	Price
1/2	.5000	6	**AW59032**	Price
17/32	.5312	6	**AW59034**	Price
9/16	.5625	6	**AW59036**	Price
19/32	.5938	7	**AW59038**	Price
5/8	.6250	7	**AW59040**	Price
21/32	.6562	7-1/2	**AW59042**	Price
11/16	.6875	7-1/2	**AW59044**	Price
23/32	.7188	8	**AW59046**	Price
3/4	.7500	8	**AW59048**	Price

RAPIDKUT® Carbide Tipped Jobber Length Drill Sets

118° Standard Point

- Heavy duty construction
- Used in drilling of cast iron, metals and many composite materials
- Complete with metal index
- **NOT FOR STEEL**



No. of Pieces	Set Range	Order No.	Price
13	1/8" - 1/2" by 32nds	**AP50C162CT**	Price
26	A - Z Letter Size	**AP50CAZCT**	Price
32	#1 - #32	**AP50C1CT**	Price

RAPIDKUT® Carbide Tipped Jobber Length Drills

High Speed Steel Bodies • 118° Point

- For drilling cast iron, non-ferrous materials, composites, plastics and other non-metals
- Tips are brazed in hardened tool steel bodies
- **NOTE**: These drills are not guaranteed for use in steel nor are they recommended for this usage!



Description - Fractional Size					
Size	Dec. Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	.1250	1-5/8	2-3/4	**AW50008**	Price
9/64	.1406	1-3/4	2-7/8	**AW50009**	Price
5/32	.1562	2	3-1/8	**AW50010**	Price
11/64	.1719	2-1/8	3-1/4	**AW50011**	Price
3/16	.1875	2-5/16	3-1/2	**AW50012**	Price
13/64	.2031	2-7/16	3-5/8	**AW50013**	Price
7/32	.2188	2-1/2	3-3/4	**AW50014**	Price
15/64	.2344	2-5/8	3-7/8	**AW50015**	Price
1/4	.2500	2-3/4	4	**AW50016**	Price
17/64	.2656	2-7/8	4-1/8	**AW50017**	Price
9/32	.2812	2-15/16	4-1/4	**AW50018**	Price
19/64	.2969	3-1/16	4-3/8	**AW50019**	Price
5/16	.3125	3-3/16	4-1/2	**AW50020**	Price
21/64	.3281	3-5/16	4-5/8	**AW50021**	Price
11/32	.3438	3-7/16	4-3/4	**AW50022**	Price
23/64	.3594	3-1/2	4-7/8	**AW50023**	Price
3/8	.3750	3-5/8	5	**AW50024**	Price
25/64	.3906	3-3/4	5-1/8	**AW50025**	Price
13/32	.4062	3-7/8	5-1/4	**AW50026**	Price
27/64	.4219	3-15/16	5-3/8	**AW50027**	Price

Description - Fractional Size					
Size	Dec. Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
7/16	.4375	4-1/16	5-1/2	**AW50028**	Price
29/64	.4531	4-3/16	5-5/8	**AW50029**	Price
15/32	.4688	4-5/16	5-3/4	**AW50030**	Price
31/64	.4844	4-3/8	5-7/8	**AW50031**	Price
1/2	.5000	4-1/2	6	**AW50032**	Price

Description - Letter Size					
Size	Dec. Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
A	.2340	2-5/8	3-7/8	**AW50201**	Price
B	.2380	2-3/4	4	**AW50202**	Price
C	.2420	2-3/4	4	**AW50203**	Price
D	.2460	2-3/4	4	**AW50204**	Price
F	.2570	2-7/8	4-1/8	**AW50206**	Price
G	.2610	2-7/8	4-1/8	**AW50207**	Price
H	.2660	2-7/8	4-1/8	**AW50208**	Price
I	.2720	2-7/8	4-1/8	**AW50209**	Price
J	.2770	2-7/8	4-1/8	**AW50210**	Price
K	.2810	2-15/16	4-1/4	**AW50211**	Price
L	.2900	2-15/16	4-1/4	**AW50212**	Price
M	.2950	3-1/16	4-3/8	**AW50213**	Price
N	.3020	3-1/16	4-3/8	**AW50214**	Price
O	.3160	3-3/16	4-1/2	**AW50215**	Price
P	.3230	3-5/16	4-5/8	**AW50216**	Price
Q	.3320	3-7/16	4-3/4	**AW50217**	Price
R	.3390	3-7/16	4-3/4	**AW50218**	Price
S	.3480	3-1/2	4-7/8	**AW50219**	Price
T	.3580	3-1/2	4-7/8	**AW50220**	Price
U	.3680	3-5/8	5	**AW50221**	Price
V	.3770	3-5/8	5	**AW50222**	Price
W	.3860	3-3/4	5-1/8	**AW50223**	Price
X	.3970	3-3/4	5-1/8	**AW50224**	Price
Y	.4040	3-7/8	5-1/4	**AW50225**	Price
Z	.4130	3-7/8	5-1/4	**AW50226**	Price

Description - Wire Gage Size					
Size	Dec. Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
1	.2280	2-5/8	3-7/8	**AW50101**	Price
2	.2210	2-5/8	3-7/8	**AW50102**	Price
3	.2130	2-1/2	3-3/4	**AW50103**	Price
4	.2090	2-1/2	3-3/4	**AW50104**	Price
5	.2055	2-1/2	3-3/4	**AW50105**	Price
6	.2040	2-1/2	3-3/4	**AW50106**	Price
7	.2010	2-7/16	3-5/8	**AW50107**	Price
8	.1990	2-7/16	3-5/8	**AW50108**	Price
9	.1960	2-7/16	3-5/8	**AW50109**	Price
10	.1935	2-7/16	3-5/8	**AW50110**	Price
11	.1910	2-5/16	3-1/2	**AW50111**	Price
12	.1890	2-5/16	3-1/2	**AW50112**	Price
13	.1850	2-5/16	3-1/2	**AW50113**	Price
14	.1820	2-3/16	3-3/8	**AW50114**	Price
15	.1800	2-3/16	3-3/8	**AW50115**	Price
16	.1770	2-3/16	3-3/8	**AW50116**	Price
17	.1730	2-3/16	3-3/8	**AW50117**	Price
18	.1695	2-1/8	3-1/4	**AW50118**	Price
19	.1660	2-1/8	3-1/4	**AW50119**	Price
20	.1610	2-1/8	3-1/4	**AW50120**	Price
21	.1590	2-1/8	3-1/4	**AW50121**	Price
22	.1570	2	3-1/8	**AW50122**	Price
23	.1540	2	3-1/8	**AW50123**	Price
24	.1520	2	3-1/8	**AW50124**	Price
25	.1495	1-7/8	3	**AW50125**	Price
26	.1470	1-7/8	3	**AW50126**	Price
27	.1440	1-7/8	3	**AW50127**	Price
28	.1405	1-3/4	2-7/8	**AW50128**	Price
29	.1360	1-3/4	2-7/8	**AW50129**	Price
30	.1285	1-5/8	2-3/4	**AW50130**	Price
31	.1200	1-5/8	2-3/4	**AW50131**	Price
32	.1160	1-5/8	2-3/4	**AW50132**	Price

Carbide Tipped Taper Shank Drills

118° Point

- Tips are brazed in hardened tool steel bodies
- For drilling cast iron, non-ferrous metals, composites, plastics and non-metal
- **NOTE**: Not recommended for drilling steel



Size (in.)	Flute Length (in.)	OAL (in.)	Taper Shank	Order No.	Price
1/4	2-7/8	6-1/8	1 MT	**AW55016**	Price
5/16	3-1/8	6-3/8	1 MT	**AW55020**	Price
13/32	3-5/8	7	1 MT	**AW55026**	Price
7/16	3-7/8	7-1/4	1 MT	**AW55028**	Price
31/64	4-3/8	8-1/4	2 MT	**AW55031**	Price
1/2	4-3/8	8-1/4	2 MT	**AW55032**	Price
33/64	4-5/8	8-1/2	2 MT	**AW55033**	Price
17/32	4-5/8	8-1/2	2 MT	**AW55034**	Price
35/64	4-7/8	8-3/4	2 MT	**AW55035**	Price
9/16	4-7/8	8-3/4	2 MT	**AW55036**	Price
37/64	4-7/8	8-3/4	2 MT	**AW55037**	Price
19/32	4-7/8	8-3/4	2 MT	**AW55038**	Price
5/8	4-7/8	8-3/4	2 MT	**AW55040**	Price
41/64	5-1/8	9	2 MT	**AW55041**	Price
21/32	5-1/8	9	2 MT	**AW55042**	Price
43/64	5-3/8	9-1/4	2 MT	**AW55043**	Price
11/16	5-3/8	9-1/4	2 MT	**AW55044**	Price
45/64	5-5/8	9-1/2	2 MT	**AW55045**	Price
23/32	5-5/8	9-1/2	2 MT	**AW55046**	Price
47/64	5-7/8	9-3/4	2 MT	**AW55047**	Price
3/4	5-7/8	9-3/4	2 MT	**AW55048**	Price
25/32	6	9-7/8	2 MT	**AW55050**	Price
13/16	6-1/8	10-3/4	3 MT	**AW55052**	Price
27/32	6-1/8	10-3/4	3 MT	**AW55054**	Price
7/8	6-1/8	10-3/4	3 MT	**AW55056**	Price
57/64	6-1/8	10-3/4	3 MT	**AW55057**	Price
29/32	6-1/8	10-3/4	3 MT	**AW55058**	Price
15/16	6-1/8	10-3/4	3 MT	**AW55060**	Price
31/32	6-3/8	11	3 MT	**AW55062**	Price
1	6-3/8	11	3 MT	**AW55100**	Price
1-1/16	6-5/8	11-1/4	3 MT	**AW55104**	Price
1-1/8	7-1/8	12-3/4	4 MT	**AW55108**	Price
1-3/16	7-3/8	13	4 MT	**AW55112**	Price
1-1/4	7-7/8	13-1/2	4 MT	**AW55116**	Price

RAPIDKUT Carbide Tipped Taper Length Drills

118° Point

- Tips are brazed in hardened tool steel bodies
- For drilling cast iron, non-ferrous metals, composites, plastics and other non-metals
- **NOTE**: Not recommended for drilling steel.



Size (in.)	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	.1250	2-3/4	5-1/8	**AW56008**	Price
9/64	.1406	3	5-3/8	**AW56009**	Price
5/32	.1562	3	5-3/8	**AW56010**	Price
11/64	.1719	3-3/8	5-3/4	**AW56011**	Price
3/16	.1875	3-3/8	5-3/4	**AW56012**	Price
13/64	.2031	3-5/8	6	**AW56013**	Price
7/32	.2188	3-5/8	6	**AW56014**	Price
15/64	.2344	3-3/4	6-1/8	**AW56015**	Price
1/4	.2500	3-3/4	6-1/8	**AW56016**	Price
17/64	.2656	3-7/8	6-1/4	**AW56017**	Price
9/32	.2812	3-7/8	6-1/4	**AW56018**	Price
19/64	.2969	4	6-3/8	**AW56019**	Price
5/16	.3125	4	6-3/8	**AW56020**	Price
21/64	.3281	4-1/8	6-1/2	**AW56021**	Price
11/32	.3438	4-1/8	6-1/2	**AW56022**	Price
23/64	.3594	4-1/4	6-3/4	**AW56023**	Price
3/8	.3750	4-1/4	6-3/4	**AW56024**	Price
25/64	.3906	4-3/8	7	**AW56025**	Price
13/32	.4062	4-3/8	7	**AW56026**	Price
27/64	.4219	4-5/8	7-1/4	**AW56027**	Price
7/16	.4375	4-5/8	7-1/4	**AW56028**	Price
29/64	.4531	4-3/4	7-1/2	**AW56029**	Price
15/32	.4688	4-3/4	7-1/2	**AW56030**	Price
31/64	.4844	4-3/4	7-3/4	**AW56031**	Price
1/2	.5000	4-3/4	7-3/4	**AW56032**	Price
33/64	.5156	4-3/4	8	**AW56033**	Price
17/32	.5312	4-3/4	8	**AW56034**	Price
35/64	.5469	4-7/8	8-1/4	**AW56035**	Price
9/16	.5625	4-7/8	8-1/4	**AW56036**	Price
37/64	.5781	4-7/8	8-3/4	**AW56037**	Price
19/32	.5938	4-7/8	8-3/4	**AW56038**	Price
39/64	.6094	4-7/8	8-3/4	**AW56039**	Price
5/8	.6250	4-7/8	8-3/4	**AW56040**	Price
41/64	.6406	5-1/8	9	**AW56041**	Price
21/32	.6562	5-1/8	9	**AW56042**	Price
43/64	.6719	5-3/8	9-1/4	**AW56043**	Price
11/16	.6875	5-3/8	9-1/4	**AW56044**	Price
45/64	.7031	5-5/8	9-1/2	**AW56045**	Price
23/32	.7187	5-5/8	9-1/2	**AW56046**	Price
47/64	.7344	5-7/8	9-3/4	**AW56047**	Price
3/4	.7500	5-7/8	9-3/4	**AW56048**	Price
25/32	.7812	6	9-7/8	**AW56050**	Price
13/16	.8125	6-1/8	10	**AW56052**	Price
27/32	.8438	6-1/8	10	**AW56054**	Price
7/8	.8750	6-1/8	10	**AW56056**	Price
29/32	.9062	6-1/8	10	**AW56058**	Price
15/16	.9375	6-1/8	10-3/4	**AW56060**	Price
61/64	.9531	6-3/8	11	**AW56061**	Price
31/32	.9688	6-3/8	11	**AW56062**	Price
1	1.0000	6-3/8	11	**AW56100**	Price

Extra Long Masonry Drills

Carbide Tipped

- For drilling deep or through holes in masonry



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/4	1/4	9	13	**AW64016**	Price
1/4	1/4	13	18	**AW64116**	Price
5/16	1/4	9	13	**AW64020**	Price
5/16	1/4	13	18	**AW64120**	Price
3/8	1/4	9	13	**AW64024**	Price
3/8	3/8	13	18	**AW64124**	Price
1/2	3/8	9	13	**AW64032**	Price
1/2	3/8	13	18	**AW64132**	Price
9/16	1/2	13	18	**AW64136**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
5/8	3/8	9	13	**AW64040A†**	Price
5/8	1/2	13	18	**AW64140**	Price
3/4	1/2	9	13	**AW64048**	Price
3/4	1/2	13	18	**AW64148**	Price
7/8	1/2	9	13	**AW64056**	Price
7/8	1/2	13	18	**AW64156**	Price
1-1/4	1/2	13	18	**AW64180**	Price
1-1/2	1/2	13	18	**AW64196**	Price

†Fast Spiral

Straight Shank Masonry Hammer Drill Bits

Carbide Tipped

- Round shank
- For use in rotary percussion tools and in drill motors with 3-jaw chucks



Size (in.)	Shank Dia. (in.)	Drill Depth (in.)	OAL (in.)	Order No.	Price
1/8	1/8	1-1/2	3	**AW67R0803**	Price
1/8	1/8	4-1/2	6	**AW67R0806**	Price
5/32	5/32	1-1/2	3	**AW67R1003**	Price
5/32	5/32	4-1/2	6	**AW67R1006**	Price
3/16	3/16	2-1/2	4	**AW67R1204**	Price
3/16	3/16	4	6	**AW67R1206**	Price
3/16	3/16	6	8	**AW67R1208**	Price
3/16	3/16	12	13-1/2	**AW67R1213**	Price
1/4	1/4	2-1/2	4	**AW67R1604**	Price
1/4	1/4	4-1/2	6	**AW67R1606**	Price
1/4	1/4	11-1/2	13	**AW67R1613**	Price
1/4	1/4	16-1/2	18	**AW67R1618**	Price
1/4	1/4	22-1/2	24	**AW67R1624**	Price
5/16	9/32	2-1/2	4	**AW67R2004**	Price
5/16	9/32	4-1/2	6	**AW67R2006**	Price
5/16	9/32	11-1/2	13	**AW67R2013**	Price
5/16	9/32	16-1/2	18	**AW67R2018**	Price
5/16	9/32	22-1/2	24	**AW67R2024**	Price
3/8	11/32	2-1/2	4	**AW67R2404**	Price
3/8	11/32	4-1/2	6	**AW67R2406**	Price
3/8	11/32	11-1/2	13	**AW67R2413**	Price
3/8	11/32	16-1/2	18	**AW67R2418**	Price
3/8	3/8	22-1/2	24	**AW67R2424**	Price
7/16	3/8	4-1/2	6	**AW67R2806**	Price
1/2	3/8	4-1/2	6	**AW67R3206**	Price
1/2	3/8	11-1/2	13	**AW67R3213**	Price
1/2	3/8	16-1/2	18	**AW67R3218**	Price
1/2	3/8	22-1/2	24	**AW67R3224**	Price
9/16	3/8	4-1/2	6	**AW67R3606**	Price
9/16	3/8	12	13-1/2	**AW67R3613**	Price
9/16	3/8	16-1/2	18	**AW67R3618**	Price
5/8	3/8	4-1/2	6	**AW67R4006**	Price
5/8	1/2	12	13-1/2	**AW67R4013**	Price
5/8	1/2	16-1/2	18	**AW67R4018**	Price
5/8	1/2	22-1/2	24	**AW67R4024**	Price
3/4	1/2	4-1/2	6	**AW67R4806**	Price
7/8	1/2	4-1/2	6	**AW67R5606**	Price
7/8	1/2	10	12	**AW67R5612**	Price
1	1/2	4-1/2	6	**AW67R6406**	Price
1-1/8	1/2	4-1/2	6	**AW67R7206**	Price
1-1/4	1/2	4-1/2	6	**AW67R8006**	Price

6" Extra Long 5 Pc. Masonry Drill Sets

Carbide Tipped

- 6" Overall length
- Sizes included: 1/4, 5/16, 3/8, 7/16, 1/2
- Case not included

Regular Spiral Set:

- Drill in brick, stone, concrete and sandstone
- Wide flutes provide fast dust removal in softer materials

Fast Spiral Set:

- Higher helix provides more support minimizing chipping of carbide tip
- For drilling in hard concrete aggregates and similar materials



Flute Type	Order No.	Price
Fast Spiral Set	**AW65006F**	Price
Regular Spiral Set	**AW65006**	Price

SDS+ Masonry Hammer Drill Bits

Carbide Tipped



- Versatile slot drive system
- Fit most rotary hammers

Size (in.)	Drill Depth (in.)	OAL (in.)	Order No.	Price
5/32	4	6-5/8	**AW671006**	Price
3/16	2	4-1/4	**AW671204**	Price
3/16	4	6-1/4	**AW671206**	Price
3/16	6	8-5/8	**AW671208**	Price
7/32	4	6-5/8	**AW671406**	Price
1/4	2	4-1/4	**AW671604**	Price
1/4	4	6-3/8	**AW671606**	Price
1/4	6	8-5/8	**AW671608**	Price
9/32	6	8-5/8	**AW671808**	Price
5/16	4	6-1/4	**AW672006**	Price
5/16	10	12-5/8	**AW672012**	Price
3/8	4	6-1/4	**AW672406**	Price
3/8	8	10-5/8	**AW672410**	Price
3/8	18	20-5/8	**AW672420**	Price
7/16	4	6-5/8	**AW672806**	Price
1/2	4	6-1/4	**AW673206**	Price
1/2	8	10-5/8	**AW673210**	Price
1/2	16	18-5/8	**AW673218**	Price
9/16	4	6-3/4	**AW673606**	Price
9/16	10	12-3/4	**AW673612**	Price
5/8	6	8-1/4	**AW674008**	Price
5/8	10	12-3/4	**AW674012**	Price
11/16	4	6-3/4	**AW674406**	Price
3/4	6	8-1/4	**AW674808**	Price
3/4	10	12-3/4	**AW674812**	Price
3/4	16	18-3/4	**AW674818**	Price
7/8	4	6-3/4	**AW675606**	Price
7/8	10	12-3/4	**AW675612**	Price
7/8	16	18-3/4	**AW675618**	Price
1	8	10-3/4	**AW676410**	Price
1	16	18-3/4	**AW676418**	Price
1	28	30	**AW676430**	Price
1-1/8	10	12-3/4	**AW677212**	Price
1-1/4	10	12-3/4	**AW678012**	Price

Masonry Drills

Carbide Tipped • Regular and Fast Spiral

Regular Spiral

- Drill in brick, stone, concrete and sandstone
- Wide flutes provide fast dust removal in softer materials

Fast Spiral

- Higher helix provides more support minimizing chipping of carbide tip
- For drilling in hard concrete aggregates and similar materials





			Fast Spiral		Regular Spiral	
Size (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/8	1/8	3	**AW63083**	Price	**AW62083**	Price
5/32	5/32	3-1/2	**-**	-	**AW62103**	Price
3/16	3/16	4	**AW63124**	Price	**AW62124**	Price
3/16	3/16	6	**AW63126**	Price	**AW62126**	Price
1/4	1/4	4	**AW63164**	Price	**AW62164**	Price
1/4	1/4	6	**AW63166**	Price	**AW62166**	Price
5/16	1/4	4	**AW63204**	Price	**AW62204**	Price
5/16	1/4	6	**AW63206**	Price	**AW62206**	Price
3/8	1/4	4	**AW63244**	Price	**AW62244**	Price
3/8	1/4	6	**AW63246**	Price	**AW62246**	Price
7/16	1/4	4	**AW63284**	Price	**AW62284**	Price
7/16	1/4	6	**AW63286**	Price	**AW62286**	Price
7/16	3/8	6	**-**	-	**AW62296**	Price
1/2	1/4	4	**AW63324**	Price	**AW62324**	Price
1/2	1/4	6	**-**	-	**AW62326**	Price
1/2	3/8	6	**AW63336**	Price	**AW62336**	Price
9/16	3/8	6	**AW63366**	Price	**-**	-
9/16	7/16	6	**-**	-	**AW62366**	Price
5/8	3/8	6	**-**	-	**AW62406A**	Price
11/16	1/2	6	**AW63426**	Price	**AW62426**	Price
3/4	3/8	6	**-**	-	**AW62486A**	Price
3/4	1/2	6	**AW63486**	Price	**AW62486**	Price
7/8	1/2	6	**-**	-	**AW62566**	Price
1	1/2	6	**-**	-	**AW62646**	Price
1-1/2	1/2	10	**-**	-	**AW6213210**	Price

RAPIDKUT® Solid Carbide Jobber Length Drills



118° Point • Uncoated and TiAlN Coated

- Ideal for drilling cast iron and other non-ferrous materials where greater torsional stresses are encountered
- Solid carbide offers extra rigidity and is particularly recommended for use under high drilling temperatures and where the drill body must withstand continuous abrasion
- **NOTE**: Not for use in steel

Type - Fractional Size						
			TiAlN		Bright	
Size	LOC (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/64	1/4	1	-	-	**AX50001**	Price
1/32	5/16	1-1/4	**AX50500**	Price	**AX50002**	Price
3/64	3/4	1-1/2	**AX50501**	Price	**AX50003**	Price
1/16	3/4	1-1/2	**AX50502**	Price	**AX50004**	Price
5/64	7/8	1-3/4	**AX50503**	Price	**AX50005**	Price
3/32	1	2	**AX50504**	Price	**AX50006**	Price
7/64	1-1/4	2-1/4	**AX50505**	Price	**AX50007**	Price
1/8	1-1/4	2-1/4	**AX50506**	Price	**AX50008**	Price
9/64	1-3/8	2-1/2	**AX50507**	Price	**AX50009**	Price
5/32	1-3/8	2-1/2	**AX50508**	Price	**AX50010**	Price
11/64	1-5/8	2-3/4	**AX50509**	Price	**AX50011**	Price
3/16	1-5/8	2-3/4	**AX50510**	Price	**AX50012**	Price
13/64	1-3/4	3	**AX50511**	Price	**AX50013**	Price
7/32	1-3/4	3	**AX50512**	Price	**AX50014**	Price
15/64	2	3-1/4	**AX50513**	Price	**AX50015**	Price
1/4	2	3-1/4	**AX50514**	Price	**AX50016**	Price

Type - Fractional Size						
			TiAlN		Bright	
Size	LOC (in.)	OAL (in.)	Order No.	Price	Order No.	Price
17/64	2-1/8	3-1/2	**AX50515**	Price	**AX50017**	Price
9/32	2-1/8	3-1/2	**AX50516**	Price	**AX50018**	Price
19/64	2-3/8	3-3/4	**AX50517**	Price	**AX50019**	Price
5/16	2-3/8	3-3/4	**AX50518**	Price	**AX50020**	Price
21/64	2-1/2	4	**AX50519**	Price	**AX50021**	Price
11/32	2-1/2	4	**AX50520**	Price	**AX50022**	Price
23/64	2-3/4	4-1/4	**AX50521**	Price	**AX50023**	Price
3/8	2-3/4	4-1/4	**AX50522**	Price	**AX50024**	Price
25/64	2-7/8	4-1/2	**AX50523**	Price	**AX50025**	Price
13/32	2-7/8	4-1/2	**AX50524**	Price	**AX50026**	Price
27/64	2-7/8	4-1/2	**AX50525**	Price	**AX50027**	Price
7/16	2-7/8	4-1/2	**AX50526**	Price	**AX50028**	Price
29/64	3	4-3/4	**AX50527**	Price	**AX50029**	Price
15/32	3	4-3/4	**AX50528**	Price	**AX50030**	Price
31/64	3	4-3/4	**AX50529**	Price	**AX50031**	Price
1/2	3	4-3/4	**AX50530**	Price	**AX50032**	Price

Type - Letter Size				
			Bright	
Size	LOC (in.)	OAL (in.)	Order No.	Price
A	2	3-1/4	**AX50201**	Price
B	2	3-1/4	**AX50202**	Price
C	2	3-1/4	**AX50203**	Price
D	2	3-1/4	**AX50204**	Price
E	2	3-1/4	**AX50205**	Price
F	2	3-1/4	**AX50206**	Price
G	2-1/8	3-1/2	**AX50207**	Price
H	2-1/8	3-1/2	**AX50208**	Price
I	2-1/8	3-1/2	**AX50209**	Price
J	2-1/8	3-1/2	**AX50210**	Price
K	2-1/8	3-1/2	**AX50211**	Price
L	2-1/8	3-1/2	**AX50212**	Price
M	2-3/8	3-3/4	**AX50213**	Price
N	2-3/8	3-3/4	**AX50214**	Price
O	2-3/8	3-3/4	**AX50215**	Price
P	2-3/8	3-3/4	**AX50216**	Price
Q	2-1/2	4	**AX50217**	Price
R	2-1/2	4	**AX50218**	Price
S	2-1/2	4	**AX50219**	Price
T	2-3/4	4-1/4	**AX50220**	Price
U	2-3/4	4-1/4	**AX50221**	Price
V	2-7/8	4-1/2	**AX50222**	Price
W	2-7/8	4-1/2	**AX50223**	Price
X	2-7/8	4-1/2	**AX50224**	Price
Y	2-7/8	4-1/2	**AX50225**	Price
Z	2-7/8	4-1/2	**AX50226**	Price

Type - Wire Gage Size				
			Bright	
Size	LOC (in.)	OAL (in.)	Order No.	Price
1	1-3/4	3	**AX50101**	Price
2	1-3/4	3	**AX50102**	Price
3	1-3/4	3	**AX50103**	Price
4	1-3/4	3	**AX50104**	Price
5	1-3/4	3	**AX50105**	Price
6	1-3/4	3	**AX50106**	Price
7	1-3/4	3	**AX50107**	Price
8	1-3/4	3	**AX50108**	Price
9	1-3/4	3	**AX50109**	Price
10	1-5/8	2-3/4	**AX50110**	Price
11	1-5/8	2-3/4	**AX50111**	Price
12	1-5/8	2-3/4	**AX50112**	Price
13	1-5/8	2-3/4	**AX50113**	Price
14	1-5/8	2-3/4	**AX50114**	Price
15	1-5/8	2-3/4	**AX50115**	Price
16	1-5/8	2-3/4	**AX50116**	Price
17	1-5/8	2-3/4	**AX50117**	Price
18	1-5/8	2-3/4	**AX50118**	Price
19	1-5/8	2-3/4	**AX50119**	Price
20	1-3/8	2-1/2	**AX50120**	Price
21	1-3/8	2-1/2	**AX50121**	Price
22	1-3/8	2-1/2	**AX50122**	Price
23	1-3/8	2-1/2	**AX50123**	Price
24	1-3/8	2-1/2	**AX50124**	Price
25	1-3/8	2-1/2	**AX50125**	Price
26	1-3/8	2-1/2	**AX50126**	Price
27	1-3/8	2-1/2	**AX50127**	Price
28	1-3/8	2-1/2	**AX50128**	Price
29	1-3/8	2-1/2	**AX50129**	Price
30	1-1/4	2-1/4	**AX50130**	Price

Type - Wire Gage Size				
			Bright	
Size	LOC (in.)	OAL (in.)	Order No.	Price
31	1-1/4	2-1/4	**AX50131**	Price
32	1-1/4	2-1/4	**AX50132**	Price
33	1-1/4	2-1/4	**AX50133**	Price
34	1-1/4	2-1/4	**AX50134**	Price
35	1-1/4	2-1/4	**AX50135**	Price
36	1-1/4	2-1/4	**AX50136**	Price
37	1-1/4	2-1/4	**AX50137**	Price
38	1-1/4	2-1/4	**AX50138**	Price
39	1-1/4	2-1/4	**AX50139**	Price
40	1	2	**AX50140**	Price
41	1	2	**AX50141**	Price
42	1	2	**AX50142**	Price
43	1	2	**AX50143**	Price
44	1	2	**AX50144**	Price
45	7/8	1-3/4	**AX50145**	Price
47	7/8	1-3/4	**AX50147**	Price
48	7/8	1-3/4	**AX50148**	Price
49	7/8	1-3/4	**AX50149**	Price
50	7/8	1-3/4	**AX50150**	Price
51	3/4	1-1/2	**AX50151**	Price
52	3/4	1-1/2	**AX50152**	Price
53	3/4	1-1/2	**AX50153**	Price
54	3/4	1-1/2	**AX50154**	Price
55	3/4	1-1/2	**AX50155**	Price
56	3/4	1-1/2	**AX50156**	Price
57	3/4	1-1/2	**AX50157**	Price
58	3/4	1-1/2	**AX50158**	Price
59	3/4	1-1/2	**AX50159**	Price
60	3/4	1-1/2	**AX50160**	Price

RAPIDKUT® Solid Carbide Jobber Length Drills



Metric Sizes • 118° Point • Uncoated

- Ideal for cast iron and other non-ferrous applications
- Extra rigidity and is particularly recommended for use under high drilling temperatures
- Not recommended for steel
- Solid C-2 grade premium sub-micron carbide with 10% cobalt

Size	Decimal Equiv.	Flute Length	OAL	Order No.	Price
1mm	.0394	16mm	38mm	**AX50250**	Price
1.5mm	.0591	19mm	38mm	**AX50251**	Price
2mm	.0787	22mm	45mm	**AX50252**	Price
3mm	.1181	32mm	57mm	**AX50254**	Price
2.5mm	.0984	25mm	51mm	**AX50253**	Price
3.5mm	.1378	35mm	64mm	**AX50255**	Price
4mm	.1575	35mm	64mm	**AX50256**	Price
4.5mm	.1772	41mm	70mm	**AX50257**	Price
5mm	.1968	45mm	76mm	**AX50258**	Price
5.5mm	.2165	45mm	76mm	**AX50259**	Price
6mm	.2362	51mm	83mm	**AX50260**	Price
6.5mm	.2559	51mm	83mm	**AX50261**	Price

Size	Decimal Equiv.	Flute Length	OAL	Order No.	Price
7mm	.2756	54mm	89mm	**AX50262**	Price
7.5mm	.2953	60mm	95mm	**AX50263**	Price
8mm	.3150	60mm	95mm	**AX50264**	Price
8.5mm	.3346	64mm	102mm	**AX50265**	Price
9mm	.3543	64mm	102mm	**AX50266**	Price
9.5mm	.3740	70mm	108mm	**AX50267**	Price
10mm	.3937	73mm	114mm	**AX50268**	Price
10.5mm	.4134	73mm	114mm	**AX50269**	Price
11mm	.4331	73mm	114mm	**AX50270**	Price
11.5mm	.4528	76mm	121mm	**AX50271**	Price
12mm	.4724	76mm	121mm	**AX50272**	Price
12.5mm	.4921	76mm	121mm	**AX50273**	Price

Twister® GP Solid Carbide Jobber Drills



118° Point

- Recommended for drilling cast iron, aluminum, bronze and magnesium alloys and other abrasive, but easily machined materials
- 21° Helix
- Designed to allow high feed rates with good chip flow
- Four facet drill point minimizes drill wander and assures accurately sized holes
- M.A. Ford List #204

Description - Fractional Size					
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
1/64	.0156	1/4	1-1/2	**AX4024013**	Price
1/32	.0312	3/8	1-1/2	**AX4024073**	Price
3/64	.0469	3/4	1-1/2	**AX4024136**	Price
1/16	.0625	3/4	1-1/2	**AX4024169**	Price
5/64	.0781	7/8	1-3/4	**AX4024199**	Price
3/32	.0938	1	2	**AX4024232**	Price
7/64	.1094	1-1/4	2-1/4	**AX4024265**	Price
1/8	.1250	1-1/4	2-1/4	**AX4024295**	Price
9/64	.1406	1-3/8	2-1/2	**AX4024319**	Price
5/32	.1562	1-3/8	2-1/2	**AX4024349**	Price
11/64	.1719	1-5/8	2-3/4	**AX4024379**	Price
3/16	.1875	1-5/8	2-3/4	**AX4024406**	Price
13/64	.2031	1-3/4	3	**AX4024439**	Price
7/32	.2187	1-3/4	3	**AX4024466**	Price
15/64	.2344	2	3-1/4	**AX4024490**	Price
1/4	.2500	2	3-1/4	**AX4024514**	Price
17/64	.2656	2-1/8	3-1/2	**AX4024535**	Price
9/32	.2812	2-1/8	3-1/2	**AX4024562**	Price
19/64	.2969	2-3/8	3-3/4	**AX4024583**	Price
5/16	.3125	2-3/8	3-3/4	**AX4024601**	Price
21/64	.3281	2-1/2	4	**AX4024622**	Price
11/32	.3438	2-1/2	4	**AX4024643**	Price
23/64	.3594	2-3/4	4-1/4	**AX4024664**	Price
3/8	.3750	2-3/4	4-1/4	**AX4024682**	Price
25/64	.3906	2-7/8	4-1/2	**AX4024703**	Price
13/32	.4062	2-7/8	4-1/2	**AX4024724**	Price
27/64	.4219	2-7/8	4-1/2	**AX4024742**	Price
7/16	.4375	2-7/8	4-1/2	**AX4024757**	Price
29/64	.4531	3	4-3/4	**AX4024772**	Price
15/32	.4688	3	4-3/4	**AX4024787**	Price
31/64	.4844	3	4-3/4	**AX4024793**	Price
1/2	.5000	3	4-3/4	**AX4024799**	Price
33/64	.5156	3-1/4	5	**AX4024805**	Price
17/32	.5312	3-1/4	5	**AX4024808**	Price
35/64	.5469	3-1/4	5	**AX4024814**	Price
9/16	.5625	3-1/4	5	**AX4024820**	Price
37/64	.5781	3-1/2	5-1/4	**AX4024826**	Price
19/32	.5938	3-1/2	5-1/4	**AX4024832**	Price
39/64	.6094	3-1/2	5-1/4	**AX4024835**	Price
5/8	.6250	3-1/2	5-1/4	**AX4024841**	Price
41/64	.6406	3-5/8	5-1/2	**AX4024847**	Price
21/32	.6562	3-5/8	5-1/2	**AX4024853**	Price
43/64	.6719	3-5/8	5-1/2	**AX4024859**	Price
11/16	.6875	3-5/8	5-1/2	**AX4024862**	Price
45/64	.7031	3-7/8	5-3/4	**AX4024868**	Price
23/32	.7188	3-7/8	5-3/4	**AX4024874**	Price
47/64	.7343	3-7/8	5-3/4	**AX4024880**	Price
3/4	.7500	3-7/8	5-3/4	**AX4024886**	Price
49/64	.7656	4	6	**AX4024889**	Price
25/32	.7812	4	6	**AX4024892**	Price

Description - Letter Size					
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
A	.2340	2	3-1/4	**AX4024487**	Price
B	.2380	2	3-1/4	**AX4024496**	Price
C	.2420	2	3-1/4	**AX4024502**	Price
D	.2460	2	3-1/4	**AX4024508**	Price
F	.2570	2	3-1/4	**AX4024523**	Price
G	.2610	2-1/8	3-1/2	**AX4024529**	Price
H	.2660	2-1/8	3-1/2	**AX4024538**	Price
I	.2720	2-1/8	3-1/2	**AX4024547**	Price
J	.2770	2-1/8	3-1/2	**AX4024553**	Price
K	.2810	2-1/8	3-1/2	**AX4024559**	Price
L	.2900	2-1/8	3-1/2	**AX4024571**	Price
M	.2950	2-3/8	3-3/4	**AX4024577**	Price
N	.3020	2-3/8	3-3/4	**AX4024589**	Price
O	.3160	2-3/8	3-3/4	**AX4024607**	Price
P	.3230	2-3/8	3-3/4	**AX4024616**	Price
Q	.3320	2-1/2	4	**AX4024628**	Price
R	.3390	2-1/2	4	**AX4024637**	Price
S	.3480	2-1/2	4	**AX4024649**	Price

Description - Letter Size					
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
T	.3580	2-3/4	4-1/4	**AX4024658**	Price
U	.3680	2-3/4	4-1/4	**AX4024673**	Price
V	.3770	2-7/8	4-1/2	**AX4024685**	Price
W	.3860	2-7/8	4-1/2	**AX4024697**	Price
X	.3970	2-7/8	4-1/2	**AX4024709**	Price
Y	.4040	2-7/8	4-1/2	**AX4024718**	Price
Z	.4130	2-7/8	4-1/2	**AX4024730**	Price

Description - Wire Gage Size					
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
#1	.2280	1-3/4	3	**AX4024478**	Price
#2	.2210	1-3/4	3	**AX4024472**	Price
#3	.2130	1-3/4	3	**AX4024460**	Price
#4	.2090	1-3/4	3	**AX4024454**	Price
#5	.2055	1-3/4	3	**AX4024448**	Price
#6	.2040	1-3/4	3	**AX4024442**	Price
#7	.2010	1-3/4	3	**AX4024436**	Price
#8	.1990	1-3/4	3	**AX4024430**	Price
#9	.1960	1-3/4	3	**AX4024424**	Price
#10	.1935	1-5/8	2-3/4	**AX4024421**	Price
#11	.1910	1-5/8	2-3/4	**AX4024415**	Price
#12	.1890	1-5/8	2-3/4	**AX4024412**	Price
#13	.1850	1-5/8	2-3/4	**AX4024403**	Price
#14	.1820	1-5/8	2-3/4	**AX4024400**	Price
15	.1800	1-5/8	2-3/4	**AX4024394**	Price
#16	.1770	1-5/8	2-3/4	**AX4024388**	Price
#17	.1730	1-5/8	2-3/4	**AX4024382**	Price
#18	.1695	1-5/8	2-3/4	**AX4024376**	Price
#19	.1660	1-5/8	2-3/4	**AX4024370**	Price
#20	.1610	1-3/8	2-1/2	**AX4024361**	Price
#21	.1590	1-3/8	2-1/2	**AX4024358**	Price
#22	.1570	1-3/8	2-1/2	**AX4024352**	Price
#23	.1540	1-3/8	2-1/2	**AX4024346**	Price
#24	.1520	1-3/8	2-1/2	**AX4024340**	Price
#25	.1495	1-3/8	2-1/2	**AX4024334**	Price
#26	.1470	1-3/8	2-1/2	**AX4024331**	Price
#27	.1440	1-3/8	2-1/2	**AX4024325**	Price
#28	.1405	1-3/8	2-1/2	**AX4024316**	Price
#29	.1360	1-3/8	2-1/2	**AX4024310**	Price
#30	.1285	1-1/4	2-1/4	**AX4024301**	Price
#31	.1200	1-1/4	2-1/4	**AX4024289**	Price
#32	.1160	1-1/4	2-1/4	**AX4024283**	Price
#33	.1130	1-1/4	2-1/4	**AX4024277**	Price
#34	.1110	1-1/4	2-1/4	**AX4024274**	Price
#35	.1100	1-1/4	2-1/4	**AX4024268**	Price
#36	.1065	1-1/4	2-1/4	**AX4024262**	Price
#37	.1040	1-1/4	2-1/4	**AX4024256**	Price
#38	.1015	1-1/4	2-1/4	**AX4024250**	Price
#39	.0995	1-1/4	2-1/4	**AX4024247**	Price
#40	.0980	1	2	**AX4024241**	Price
#41	.0960	1	2	**AX4024238**	Price
#42	.0935	1	2	**AX4024229**	Price
#43	.0890	1	2	**AX4024223**	Price
#44	.0860	1	2	**AX4024217**	Price
#45	.0820	7/8	1-3/4	**AX4024211**	Price
#46	.0810	7/8	1-3/4	**AX4024208**	Price
#47	.0785	7/8	1-3/4	**AX4024202**	Price
#48	.0760	7/8	1-3/4	**AX4024196**	Price
#49	.0730	7/8	1-3/4	**AX4024190**	Price
#50	.0700	7/8	1-3/4	**AX4024184**	Price
#51	.0670	3/4	1-1/2	**AX4024181**	Price
#52	.0635	3/4	1-1/2	**AX4024175**	Price
#53	.0595	3/4	1-1/2	**AX4024166**	Price
#54	.0550	3/4	1-1/2	**AX4024154**	Price
#55	.0520	3/4	1-1/2	**AX4024148**	Price
#56	.0465	3/4	1-1/2	**AX4024133**	Price
#57	.0430	3/4	1-1/2	**AX4024124**	Price
#58	.0420	3/4	1-1/2	**AX4024121**	Price
#59	.0410	3/4	1-1/2	**AX4024115**	Price
#60	.0400	3/4	1-1/2	**AX4024112**	Price
#61	.0390	1/2	1-1/2	**AX4024106**	Price
#62	.0380	1/2	1-1/2	**AX4024103**	Price
#63	.0370	1/2	1-1/2	**AX4024097**	Price
#64	.0360	1/2	1-1/2	**AX4024094**	Price
#65	.0350	3/8	1-1/2	**AX4024088**	Price
#66	.0330	3/8	1-1/2	**AX4024082**	Price
#67	.0320	3/8	1-1/2	**AX4024079**	Price
#68	.0310	3/8	1-1/2	**AX4024070**	Price
#69	.0292	5/16	1-1/2	**AX4024064**	Price
#70	.0280	5/16	1-1/2	**AX4024061**	Price
#71	.0260	5/16	1-1/2	**AX4024055**	Price
#72	.0250	5/16	1-1/2	**AX4024049**	Price
#73	.0240	1/4	1-1/2	**AX4024046**	Price
#74	.0225	1/4	1-1/2	**AX4024040**	Price
#75	.0210	1/4	1-1/2	**AX4024034**	Price
#76	.0200	1/4	1-1/2	**AX4024031**	Price
#77	.0180	1/4	1-1/2	**AX4024025**	Price
#78	.0160	1/4	1-1/2	**AX4024019**	Price
#79	.0145	1/4	1-1/2	**AX4024010**	Price
#80	.0135	1/4	1-1/2	**AX4024004**	Price

† Letter E same as 1/4" AX4024514

Twister® GP Solid Carbide Metric Jobber Drills

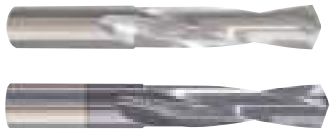


- 118° Point
- 21° Helix
- Designed to allow high feet rates with good chip flow
- Four facet drill point minimizes drill wander and assures accurately sized holes
- M.A. Ford List #224

Size	Decimal Equiv.	Flute Length	OAL	Order No.	Price
.30mm	.0118	3mm	26mm	**AX4124002**	Price
.35mm	.0138	4mm	26mm	**AX4124008**	Price
.40mm	.0157	5mm	26mm	**AX4124017**	Price
.45mm	.0177	5mm	26mm	**AX4124023**	Price
.50mm	.0197	6mm	26mm	**AX4124029**	Price
.55mm	.0217	7mm	26mm	**AX4124038**	Price
.60mm	.0236	7mm	26mm	**AX4124044**	Price
.65mm	.0256	8mm	26mm	**AX4124053**	Price
.70mm	.0276	9mm	28mm	**AX4124059**	Price
.75mm	.0295	9mm	28mm	**AX4124068**	Price
.80mm	.0315	10mm	30mm	**AX4124077**	Price
.85mm	.0335	10mm	30mm	**AX4124086**	Price
.90mm	.0354	11mm	32mm	**AX4124092**	Price
.95mm	.0374	11mm	32mm	**AX4124101**	Price
1mm	.0394	12mm	34mm	**AX4124110**	Price
1.05mm	.0413	12mm	34mm	**AX4124119**	Price
1.1mm	.0433	14mm	36mm	**AX4124128**	Price
1.15mm	.0452	14mm	36mm	**AX4124131**	Price
1.2mm	.0472	16mm	38mm	**AX4124140**	Price
1.25mm	.0492	16mm	38mm	**AX4124143**	Price
1.3mm	.0511	16mm	38mm	**AX4124146**	Price
1.35mm	.0531	18mm	40mm	**AX4124152**	Price
1.4mm	.0551	18mm	40mm	**AX4124158**	Price
1.45mm	.0571	18mm	40mm	**AX4124161**	Price
1.5mm	.0590	18mm	40mm	**AX4124164**	Price
1.6mm	.0630	20mm	43mm	**AX4124173**	Price
1.7mm	.0669	20mm	43mm	**AX4124179**	Price
1.8mm	.0708	22mm	46mm	**AX4124188**	Price
1.9mm	.0748	22mm	46mm	**AX4124194**	Price
2mm	.0787	24mm	49mm	**AX4124206**	Price
2.1mm	.0827	24mm	49mm	**AX4124215**	Price
2.2mm	.0866	27mm	53mm	**AX4124221**	Price
2.3mm	.0906	27mm	53mm	**AX4124227**	Price
2.4mm	.0945	30mm	57mm	**AX4124236**	Price
2.5mm	.0984	30mm	57mm	**AX4124245**	Price
2.6mm	.1024	30mm	57mm	**AX4124254**	Price
2.7mm	.1063	33mm	61mm	**AX4124260**	Price
2.8mm	.1102	33mm	61mm	**AX4124272**	Price
2.9mm	.1142	33mm	61mm	**AX4124281**	Price
3mm	.1181	33mm	61mm	**AX4124287**	Price
3.1mm	.1220	36mm	65mm	**AX4124293**	Price
3.2mm	.1260	36mm	65mm	**AX4124299**	Price
3.3mm	.1299	36mm	65mm	**AX4124305**	Price
3.4mm	.1339	39mm	70mm	**AX4124308**	Price
3.5mm	.1378	39mm	70mm	**AX4124314**	Price
3.6mm	.1417	39mm	70mm	**AX4124323**	Price
3.7mm	.1457	39mm	70mm	**AX4124329**	Price
3.8mm	.1496	43mm	75mm	**AX4124338**	Price
3.9mm	.1535	43mm	75mm	**AX4124344**	Price
4mm	.1575	43mm	75mm	**AX4124356**	Price
4.1mm	.1614	43mm	75mm	**AX4124365**	Price
4.2mm	.1654	43mm	75mm	**AX4124368**	Price
4.3mm	.1693	47mm	80mm	**AX4124374**	Price
4.4mm	.1732	47mm	80mm	**AX4124386**	Price
4.5mm	.1772	47mm	80mm	**AX4124392**	Price
4.6mm	.1811	47mm	80mm	**AX4124398**	Price
4.7mm	.1850	47mm	80mm	**AX4124404**	Price
4.8mm	.1889	52mm	86mm	**AX4124410**	Price
4.9mm	.1929	52mm	86mm	**AX4124419**	Price
5mm	.1968	52mm	86mm	**AX4124428**	Price
5.1mm	.2008	52mm	86mm	**AX4124434**	Price
5.2mm	.2047	52mm	86mm	**AX4124446**	Price
5.3mm	.2086	52mm	86mm	**AX4124452**	Price
5.4mm	.2126	57mm	93mm	**AX4124458**	Price
5.5mm	.2165	57mm	93mm	**AX4124464**	Price
5.6mm	.2205	57mm	93mm	**AX4124470**	Price
5.7mm	.2244	57mm	93mm	**AX4124476**	Price
5.8mm	.2283	57mm	93mm	**AX4124482**	Price
5.9mm	.2323	57mm	93mm	**AX4124485**	Price
6mm	.2362	57mm	93mm	**AX4124494**	Price
6.1mm	.2402	63mm	101mm	**AX4124500**	Price
6.2mm	.2441	63mm	101mm	**AX4124506**	Price
6.3mm	.2480	63mm	101mm	**AX4124512**	Price
6.4mm	.2519	63mm	101mm	**AX4124518**	Price
6.5mm	.2559	63mm	101mm	**AX4124521**	Price
6.6mm	.2598	63mm	101mm	**AX4124527**	Price
6.7mm	.2637	63mm	101mm	**AX4124533**	Price
6.8mm	.2677	69mm	109mm	**AX4124542**	Price
6.9mm	.2716	69mm	109mm	**AX4124545**	Price
7mm	.2756	69mm	109mm	**AX4124551**	Price
7.1mm	.2795	69mm	109mm	**AX4124557**	Price
7.2mm	.2834	69mm	109mm	**AX4124566**	Price
7.3mm	.2874	69mm	109mm	**AX4124569**	Price
7.4mm	.2913	69mm	109mm	**AX4124575**	Price
7.5mm	.2953	69mm	109mm	**AX4124581**	Price
7.6mm	.2992	75mm	117mm	**AX4124587**	Price
7.7mm	.3031	75mm	117mm	**AX4124593**	Price
7.8mm	.3071	75mm	117mm	**AX4124596**	Price
7.9mm	.3110	75mm	117mm	**AX4124599**	Price
8mm	.3150	75mm	117mm	**AX4124605**	Price
8.1mm	.3189	75mm	117mm	**AX4124611**	Price
8.2mm	.3228	75mm	117mm	**AX4124614**	Price
8.3mm	.3267	75mm	117mm	**AX4124620**	Price
8.4mm	.3307	75mm	117mm	**AX4124626**	Price
8.5mm	.3346	75mm	117mm	**AX4124632**	Price
8.6mm	.3385	81mm	125mm	**AX4124635**	Price
8.7mm	.3425	81mm	125mm	**AX4124641**	Price
8.8mm	.3464	81mm	125mm	**AX4124647**	Price
8.9mm	.3504	81mm	125mm	**AX4124653**	Price
9mm	.3543	81mm	125mm	**AX4124656**	Price
9.1mm	.3582	81mm	125mm	**AX4124662**	Price
9.2mm	.3622	81mm	125mm	**AX4124668**	Price
9.3mm	.3661	81mm	125mm	**AX4124671**	Price
9.4mm	.3700	81mm	125mm	**AX4124677**	Price
9.5mm	.3740	81mm	125mm	**AX4124680**	Price
9.6mm	.3779	87mm	133mm	**AX4124689**	Price
9.7mm	.3819	87mm	133mm	**AX4124692**	Price
9.8mm	.3858	87mm	133mm	**AX4124695**	Price
9.9mm	.3897	87mm	133mm	**AX4124701**	Price
10mm	.3937	87mm	133mm	**AX4124707**	Price
10.1mm	.3976	87mm	133mm	**AX4124713**	Price
10.2mm	.4015	87mm	133mm	**AX4124716**	Price
10.3mm	.4055	87mm	133mm	**AX4124722**	Price
10.4mm	.4094	87mm	133mm	**AX4124728**	Price
10.5mm	.4134	87mm	133mm	**AX4124734**	Price
10.6mm	.4173	87mm	133mm	**AX4124737**	Price
10.7mm	.4212	94mm	142mm	**AX4124740**	Price
10.8mm	.4252	94mm	142mm	**AX4124746**	Price
10.9mm	.4291	94mm	142mm	**AX4124749**	Price
11mm	.4331	94mm	142mm	**AX4124752**	Price
11.1mm	.4370	94mm	142mm	**AX4124755**	Price
11.2mm	.4409	94mm	142mm	**AX4124761**	Price
11.3mm	.4449	94mm	142mm	**AX4124764**	Price
11.4mm	.4488	94mm	142mm	**AX4124767**	Price
11.5mm	.4527	94mm	142mm	**AX4124770**	Price
11.6mm	.4567	94mm	142mm	**AX4124776**	Price
11.7mm	.4606	94mm	142mm	**AX4124779**	Price
11.8mm	.4645	94mm	142mm	**AX4124782**	Price
11.9mm	.4685	101mm	151mm	**AX4124785**	Price
12mm	.4724	101mm	151mm	**AX4124791**	Price
12.5mm	.4921	101mm	151mm	**AX4124797**	Price
13mm	.5118	101mm	151mm	**AX4124803**	Price
13.5mm	.5315	108mm	160mm	**AX4124812**	Price
14mm	.5512	108mm	160mm	**AX4124818**	Price
14.5mm	.5708	114mm	169mm	**AX4124824**	Price
15mm	.5905	114mm	169mm	**AX4124830**	Price
15.5mm	.6102	120mm	178mm	**AX4124839**	Price
16mm	.6299	120mm	178mm	**AX4124845**	Price
16.5mm	.6496	125mm	184mm	**AX4124851**	Price
17mm	.6693	125mm	184mm	**AX4124857**	Price
17.5mm	.6890	130mm	191mm	**AX4124866**	Price
18mm	.7087	130mm	191mm	**AX4124872**	Price
18.5mm	.7283	135mm	198mm	**AX4124878**	Price
19mm	.7480	135mm	198mm	**AX4124884**	Price
20mm	.7874	140mm	205mm	**AX4124896**	Price

RAPIDKUT® Solid Carbide Screw Machine Length Drills

15° Helix • 135° Drill Point



- Cast iron
- Stainless steel
- Tool steel
- Titanium & nickel alloys
- C-2 grade premium sub-micron carbide with 10% cobalt
- Right hand spiral, right hand cut

				TiAlN		Uncoated	
Drill Dia. (in.)	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/32	.0310	1/2	1-1/2	**AX7022002**	Price	**AX7020002**	Price
3/64	.0470	1/2	1-1/2	**AX7022003**	Price	**AX7020003**	Price
1/16	.0620	5/8	1-5/8	**AX7022004**	Price	**AX7020004**	Price
5/64	.0780	11/16	1-11/16	**AX7022005**	Price	**AX7020005**	Price
3/32	.0940	3/4	1-3/4	**AX7022006**	Price	**AX7020006**	Price
7/64	.1090	13/16	1-13/16	**AX7022007**	Price	**AX7020007**	Price
1/8	.1250	7/8	1-7/8	**AX7022008**	Price	**AX7020008**	Price
9/64	.1410	15/16	1-15/16	**AX7022009**	Price	**AX7020009**	Price
5/32	.1560	1	2-1/16	**AX7022010**	Price	**AX7020010**	Price
11/64	.1720	1-1/16	2-1/8	**AX7022011**	Price	**AX7020011**	Price
3/16	.1880	1-1/8	2-3/16	**AX7022012**	Price	**AX7020012**	Price
13/64	.2030	1-3/16	2-1/4	**AX7022013**	Price	**AX7020013**	Price
7/32	.2190	1-1/4	2-3/8	**AX7022014**	Price	**AX7020014**	Price
15/64	.2340	1-5/16	2-7/16	**AX7022015**	Price	**AX7020015**	Price
1/4	.2500	1-3/8	2-1/2	**AX7022016**	Price	**AX7020016**	Price
17/64	.2660	1-7/16	2-5/8	**AX7022017**	Price	**AX7020017**	Price
9/32	.2810	1-1/2	2-11/16	**AX7022018**	Price	**AX7020018**	Price
19/64	.2970	1-9/16	2-3/4	**AX7022019**	Price	**AX7020019**	Price
5/16	.3120	1-5/8	2-13/16	**AX7022020**	Price	**AX7020020**	Price
21/64	.3280	1-11/16	2-15/16	**AX7022021**	Price	**AX7020021**	Price
11/32	.3440	1-11/16	3	**AX7022022**	Price	**AX7020022**	Price
23/64	.3590	1-3/4	3-1/16	**AX7022023**	Price	**AX7020023**	Price
3/8	.3750	1-13/16	3-1/8	**AX7022024**	Price	**AX7020024**	Price
25/64	.3910	1-7/8	3-1/4	**AX7022025**	Price	**AX7020025**	Price
13/32	.4060	1-15/16	3-5/16	**AX7022026**	Price	**AX7020026**	Price
27/64	.4220	2	3-3/8	**AX7022027**	Price	**AX7020027**	Price
7/16	.4380	2-1/16	3-7/16	**AX7022028**	Price	**AX7020028**	Price
29/64	.4530	2-1/8	3-9/16	**AX7022029**	Price	**AX7020029**	Price
15/32	.4690	2-1/8	3-5/8	**AX7022030**	Price	**AX7020030**	Price
31/64	.4840	2-3/16	3-11/16	**AX7022031**	Price	**AX7020031**	Price
1/2	.5000	2-1/4	3-3/4	**AX7022032**	Price	**AX7020032**	Price

Type - Letter Size							
				TiAlN		Uncoated	
Drill Dia.	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
A	.2340	1-5/16	2-7/16	**AX7022201**	Price	**AX7020201**	Price
B	.2380	1-3/8	2-1/2	**AX7022202**	Price	**AX7020202**	Price
C	.2420	1-3/8	2-1/2	**AX7022203**	Price	**AX7020203**	Price
D	.2460	1-3/8	2-1/2	**AX7022204**	Price	**AX7020204**	Price
E	.2500	1-3/8	2-1/2	**AX7022205**	Price	**AX7020205**	Price
F	.2570	1-7/16	2-5/8	**AX7022206**	Price	**AX7020206**	Price
G	.2610	1-7/16	2-5/8	**AX7022207**	Price	**AX7020207**	Price
H	.2660	1-1/2	2-11/16	**AX7022208**	Price	**AX7020208**	Price
I	.2720	1-1/2	2-11/16	**AX7022209**	Price	**AX7020209**	Price
J	.2770	1-1/2	2-11/16	**AX7022210**	Price	**AX7020210**	Price
K	.2810	1-1/2	2-11/16	**AX7022211**	Price	**AX7020211**	Price
L	.2900	1-9/16	2-3/4	**AX7022212**	Price	**AX7020212**	Price
M	.2950	1-9/16	2-3/4	**AX7022213**	Price	**AX7020213**	Price
N	.3020	1-5/8	2-13/16	**AX7022214**	Price	**AX7020214**	Price
O	.3160	1-11/16	2-15/16	**AX7022215**	Price	**AX7020215**	Price
P	.3230	1-11/16	2-15/16	**AX7022216**	Price	**AX7020216**	Price
Q	.3320	1-11/16	3	**AX7022217**	Price	**AX7020217**	Price
R	.3390	1-11/16	3	**AX7022218**	Price	**AX7020218**	Price
S	.3480	1-3/4	3-1/16	**AX7022219**	Price	**AX7020219**	Price
T	.3580	1-3/4	3-1/16	**AX7022220**	Price	**AX7020220**	Price
U	.3680	1-13/16	3-1/8	**AX7022221**	Price	**AX7020221**	Price
V	.3770	1-7/8	3-1/4	**AX7022222**	Price	**AX7020222**	Price
W	.3860	1-7/8	3-1/4	**AX7022223**	Price	**AX7020223**	Price
X	.3970	1-15/16	3-5/16	**AX7022224**	Price	**AX7020224**	Price
Y	.4040	1-15/16	3-5/16	**AX7022225**	Price	**AX7020225**	Price
Z	.4130	2	3-3/8	**AX7022226**	Price	**AX7020226**	Price

Type - Wire Gage							
				TiAlN		Uncoated	
Drill Dia.	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1	.2280	1-5/16	2-7/16	**AX7022101**	Price	**AX7020101**	Price
2	.2210	1-5/16	2-7/16	**AX7022102**	Price	**AX7020102**	Price
3	.2130	1-1/4	2-3/8	**AX7022103**	Price	**AX7020103**	Price
4	.2090	1-1/4	2-3/8	**AX7022104**	Price	**AX7020104**	Price
5	.2060	1-1/4	2-3/8	**AX7022105**	Price	**AX7020105**	Price
6	.2040	1-1/4	2-3/8	**AX7022106**	Price	**AX7020106**	Price
7	.2010	1-3/16	2-1/4	**AX7022107**	Price	**AX7020107**	Price
8	.1990	1-3/16	2-1/4	**AX7022108**	Price	**AX7020108**	Price
9	.1960	1-3/16	2-1/4	**AX7022109**	Price	**AX7020109**	Price
10	.1940	1-3/16	2-1/4	**AX7022110**	Price	**AX7020110**	Price
11	.1910	1-3/16	2-1/4	**AX7022111**	Price	**AX7020111**	Price
12	.1890	1-3/16	2-1/4	**AX7022112**	Price	**AX7020112**	Price
13	.1850	1-1/8	2-3/16	**AX7022113**	Price	**AX7020113**	Price
14	.1820	1-1/8	2-3/16	**AX7022114**	Price	**AX7020114**	Price
15	.1800	1-1/8	2-3/16	**AX7022115**	Price	**AX7020115**	Price
16	.1770	1-1/8	2-3/16	**AX7022116**	Price	**AX7020116**	Price
17	.1730	1-1/8	2-3/16	**AX7022117**	Price	**AX7020117**	Price
18	.1700	1-1/16	2-1/8	**AX7022118**	Price	**AX7020118**	Price
19	.1660	1-1/16	2-1/8	**AX7022119**	Price	**AX7020119**	Price
20	.1610	1-1/16	2-1/8	**AX7022120**	Price	**AX7020120**	Price
21	.1590	1-1/16	2-1/8	**AX7022121**	Price	**AX7020121**	Price
22	.1570	1-1/16	2-1/8	**AX7022122**	Price	**AX7020122**	Price
23	.1540	1	2-1/16	**AX7022123**	Price	**AX7020123**	Price
24	.1520	1	2-1/16	**AX7022124**	Price	**AX7020124**	Price
25	.1500	1	2-1/16	**AX7022125**	Price	**AX7020125**	Price
26	.1470	1	2-1/16	**AX7022126**	Price	**AX7020126**	Price
27	.1440	1	2-1/16	**AX7022127**	Price	**AX7020127**	Price
28	.1400	15/16	1-15/16	**AX7022128**	Price	**AX7020128**	Price
29	.1360	15/16	1-15/16	**AX7022129**	Price	**AX7020129**	Price
30	.1280	15/16	1-15/16	**AX7022130**	Price	**AX7020130**	Price
31	.1200	7/8	1-7/8	**AX7022131**	Price	**AX7020131**	Price
32	.1160	7/8	1-7/8	**AX7022132**	Price	**AX7020132**	Price
33	.1130	7/8	1-7/8	**AX7022133**	Price	**AX7020133**	Price
34	.1110	7/8	1-7/8	**AX7022134**	Price	**AX7020134**	Price
35	.1100	7/8	1-7/8	**AX7022135**	Price	**AX7020135**	Price
36	.1060	13/16	1-13/16	**AX7022136**	Price	**AX7020136**	Price
37	.1040	13/16	1-13/16	**AX7022137**	Price	**AX7020137**	Price
38	.1020	13/16	1-13/16	**AX7022138**	Price	**AX7020138**	Price
39	.1000	13/16	1-13/16	**AX7022139**	Price	**AX7020139**	Price
40	.0980	13/16	1-13/16	**AX7022140**	Price	**AX7020140**	Price
41	.0960	13/16	1-13/16	**AX7022141**	Price	**AX7020141**	Price
42	.0940	3/4	1-3/4	**AX7022142**	Price	**AX7020142**	Price
43	.0890	3/4	1-3/4	**AX7022143**	Price	**AX7020143**	Price
44	.0860	3/4	1-3/4	**AX7022144**	Price	**AX7020144**	Price
45	.0820	3/4	1-3/4	**AX7022145**	Price	**AX7020145**	Price
46	.0810	3/4	1-3/4	**AX7022146**	Price	**AX7020146**	Price
47	.0780	3/4	1-3/4	**AX7022147**	Price	**AX7020147**	Price
48	.0760	11/16	1-11/16	**AX7022148**	Price	**AX7020148**	Price
49	.0730	11/16	1-11/16	**AX7022149**	Price	**AX7020149**	Price
50	.0700	11/16	1-11/16	**AX7022150**	Price	**AX7020150**	Price
51	.0670	11/16	1-11/16	**AX7022151**	Price	**AX7020151**	Price
52	.0640	11/16	1-11/16	**AX7022152**	Price	**AX7020152**	Price
53	.0600	1/2	1-1/2	**AX7022153**	Price	**AX7020153**	Price
54	.0550	1/2	1-1/2	**AX7022154**	Price	**AX7020154**	Price
55	.0520	1/2	1-1/2	**AX7022155**	Price	**AX7020155**	Price
56	.0460	1/2	1-1/2	**AX7022156**	Price	**AX7020156**	Price

Twister® GP Solid Carbide Stub Length Drills



118° Point • 21° Helix

- Designed for drilling cast iron, aluminum, bronze and magnesium
- An extremely efficient and economical carbide drill
- Shorter overhang reduces deflection and vibration, increases drill accuracy and improves tool life
- M.A. Ford List #206

Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
3/64	3/8	1-1/2	**AX3926028**	Price
1/16	3/8	1-1/2	**AX3926061**	Price
5/64	1/2	1-1/2	**AX3926091**	Price
3/32	1/2	2	**AX3926124**	Price
7/64	5/8	2	**AX3926157**	Price
1/8	5/8	2	**AX3926187**	Price
9/64	5/8	2	**AX3926211**	Price
5/32	3/4	2	**AX3926241**	Price
11/64	3/4	2-1/8	**AX3926271**	Price
3/16	3/4	2-3/16	**AX3926298**	Price
13/64	3/4	2-1/4	**AX3926331**	Price
7/32	1	2-1/2	**AX3926358**	Price

Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
15/64	1	2-1/2	**AX3926382**	Price
1/4	1	2-1/2	**AX3926406**	Price
17/64	1	2-1/2	**AX3926427**	Price
9/32	1	2-1/2	**AX3926454**	Price
19/64	1-1/4	2-1/2	**AX3926475**	Price
5/16	1-1/4	2-1/2	**AX3926493**	Price
21/64	1-1/4	2-1/2	**AX3926514**	Price
11/32	1-1/4	2-1/2	**AX3926535**	Price
23/64	1-1/4	2-1/2	**AX3926556**	Price
3/8	1-1/4	2-1/2	**AX3926574**	Price
25/64	1-1/4	2-3/4	**AX3926595**	Price
13/32	1-1/4	2-3/4	**AX3926616**	Price

Twister® GP Solid Carbide Stub Length Drills



3xD Length • 118° Point • Uncoated

- 21° Helix
- Designed to allow high feed rates with good chip flow
- Four facet drill point minimizes drill wander and assures accurately sized holes
- M.A. Ford Series #206

Type - Letter Size					
Drill Dia.	Decimal Equiv.	Flute Length	OAL	Order No.	Price
A	.2340	1	2-1/2	**AX3926379**	Price
B	.2380	1	2-1/2	**AX3926388**	Price
C	.2420	1	2-1/2	**AX3926394**	Price
D	.2460	1	2-1/2	**AX3926400**	Price
F	.2570	1	2-1/2	**AX3926415**	Price
G	.2610	1	2-1/2	**AX3926421**	Price
H	.2660	1	2-1/2	**AX3926430**	Price
I	.2720	1	2-1/2	**AX3926439**	Price
J	.2770	1	2-1/2	**AX3926445**	Price
K	.2810	1	2-1/2	**AX3926451**	Price
L	.2900	1	2-1/2	**AX3926463**	Price
M	.2950	1-1/4	2-1/2	**AX3926469**	Price
T	.3580	1-1/4	2-1/2	**AX3926550**	Price
U	.3680	1-1/4	2-1/2	**AX3926565**	Price
V	.3770	1-1/4	2-1/2	**AX3926577**	Price
W	.3860	1-1/4	2-3/4	**AX3926589**	Price
X	.3970	1-1/4	2-3/4	**AX3926601**	Price
Y	.4040	1-1/4	2-3/4	**AX3926610**	Price
Z	.4130	1-1/4	2-3/4	**AX3926622**	Price
N	.3020	1-1/4	2-1/2	**AX3926481**	Price
P	.3230	1-1/4	2-1/2	**AX3926508**	Price
Q	.3320	1-1/4	2-1/2	**AX3926520**	Price
O	.3160	1-1/4	2-1/2	**AX3926499**	Price
R	.3390	1-1/4	2-1/2	**AX3926529**	Price
S	.3480	1-1/4	2-1/2	**AX3926541**	Price

Type - Wire Gage Size					
Drill Dia.	Decimal Equiv.	Flute Length	OAL	Order No.	Price
1	.2280	1	2-1/2	**AX3926370**	Price
2	.2210	1	2-1/2	**AX3926364**	Price
3	.2130	1	2-1/2	**AX3926352**	Price
4	.2090	3/4	2-1/4	**AX3926346**	Price
5	.2055	3/4	2-1/4	**AX3926340**	Price
6	.2040	3/4	2-1/4	**AX3926334**	Price
7	.2010	3/4	2-1/4	**AX3926328**	Price
8	.1990	3/4	2-1/4	**AX3926322**	Price
9	.1960	3/4	2-1/4	**AX3926316**	Price
10	.1935	3/4	2-3/16	**AX3926313**	Price
11	.1910	3/4	2-3/16	**AX3926307**	Price
12	.1890	3/4	2-3/16	**AX3926304**	Price
13	.1850	3/4	2-3/16	**AX3926295**	Price
14	.1820	3/4	2-3/16	**AX3926292**	Price
15	.1800	3/4	2-3/16	**AX3926286**	Price
16	.1770	3/4	2-1/8	**AX3926280**	Price

Type - Wire Gage Size					
Drill Dia.	Decimal Equiv.	Flute Length	OAL	Order No.	Price
17	.1730	3/4	2-1/8	**AX3926274**	Price
18	.1695	3/4	2-1/8	**AX3926268**	Price
20	.1610	3/4	2	**AX3926253**	Price
21	.1590	3/4	2	**AX3926250**	Price
22	.1570	3/4	2	**AX3926244**	Price
23	.1540	5/8	2	**AX3926238**	Price
24	.1520	5/8	2	**AX3926232**	Price
25	.1495	5/8	2	**AX3926226**	Price
26	.1470	5/8	2	**AX3926223**	Price
27	.1440	5/8	2	**AX3926217**	Price
28	.1405	5/8	2	**AX3926208**	Price
29	.1360	5/8	2	**AX3926202**	Price
30	.1285	5/8	2	**AX3926193**	Price
31	.1200	5/8	2	**AX3926181**	Price
32	.1160	5/8	2	**AX3926175**	Price
33	.1130	5/8	2	**AX3926169**	Price
34	.1110	5/8	2	**AX3926166**	Price
35	.1100	5/8	2	**AX3926160**	Price
36	.1065	5/8	2	**AX3926154**	Price
37	.1040	5/8	2	**AX3926148**	Price
38	.1015	5/8	2	**AX3926142**	Price
39	.0995	5/8	2	**AX3926139**	Price
40	.0980	5/8	2	**AX3926133**	Price
41	.0960	1/2	2	**AX3926130**	Price
42	.0935	1/2	2	**AX3926121**	Price
43	.0890	1/2	2	**AX3926115**	Price
44	.0860	1/2	2	**AX3926109**	Price
45	.0820	1/2	1-1/2	**AX3926103**	Price
46	.0810	1/2	1-1/2	**AX3926100**	Price
47	.0785	1/2	1-1/2	**AX3926094**	Price
48	.0760	1/2	1-1/2	**AX3926088**	Price
49	.0730	3/8	1-1/2	**AX3926082**	Price
50	.0700	3/8	1-1/2	**AX3926076**	Price
51	.0670	3/8	1-1/2	**AX3926073**	Price
52	.0635	3/8	1-1/2	**AX3926067**	Price
53	.0595	3/8	1-1/2	**AX3926058**	Price
54	.0550	3/8	1-1/2	**AX3926046**	Price
55	.0520	3/8	1-1/2	**AX3926040**	Price
56	.0465	3/8	1-1/2	**AX3926025**	Price
57	.0430	3/8	1-1/2	**AX3926016**	Price
58	.0420	3/8	1-1/2	**AX3926013**	Price
59	.0410	3/8	1-1/2	**AX3926007**	Price
60	.0400	3/8	1-1/2	**AX3926004**	Price

RAPIDKUT® Metric Solid Carbide Screw Machine Length Drills

15° Helix • 135° Drill Point

- C-2 grade premium sub-micron carbide with 10% cobalt

For use with:

- Cast iron
- Stainless steel
- Tool steel
- Titanium & nickel alloys



				TiAlN		Uncoated	
Drill Dia.	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1.0mm	.0390	1/2	1-1/2	**AX7023010**	Price	**AX7021010**	Price
1.5mm	.0590	1/2	1-1/2	**AX7023015**	Price	**AX7021015**	Price
2.0mm	.0790	3/4	1-3/4	**AX7023020**	Price	**AX7021020**	Price
2.5mm	.0980	13/16	1-13/16	**AX7023025**	Price	**AX7021025**	Price
3.5mm	.1380	15/16	1-15/16	**AX7023035**	Price	**AX7021035**	Price
4.0mm	.1580	1-1/16	2-1/8	**AX7023040**	Price	**AX7021040**	Price
4.5mm	.1770	1-1/8	2-3/16	**AX7023045**	Price	**AX7021045**	Price
3.0mm	.1180	7/8	1-7/8	**AX7023030**	Price	**AX7021030**	Price
5.0mm	.1970	1-3/16	2-1/4	**AX7023050**	Price	**AX7021050**	Price
5.5mm	.2160	1-1/4	2-3/8	**AX7023055**	Price	**AX7021055**	Price
6.0mm	.2360	1-5/16	2-7/16	**AX7023060**	Price	**AX7021060**	Price
6.5mm	.2560	1-3/8	2-1/2	**AX7023065**	Price	**AX7021065**	Price

				TiAlN		Uncoated	
Drill Dia.	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
7.0mm	.2760	1-1/2	2-11/16	**AX7023070**	Price	**AX7021070**	Price
7.5mm	.2950	1-9/16	2-3/4	**AX7023075**	Price	**AX7021075**	Price
8.0mm	.3150	1-5/8	2-13/16	**AX7023080**	Price	**AX7021080**	Price
8.5mm	.3350	1-11/16	3	**AX7023085**	Price	**AX7021085**	Price
9.0mm	.3540	1-3/4	3-1/16	**AX7023090**	Price	**AX7021090**	Price
9.5mm	.3740	1-13/16	3-1/8	**AX7023095**	Price	**AX7021095**	Price
10.0mm	.3940	1-7/8	3-1/4	**AX7023100**	Price	**AX7021100**	Price
10.5mm	.4130	2	3-3/8	**AX7023105**	Price	**AX7021105**	Price
11.0mm	.4330	2	3-3/8	**AX7023110**	Price	**AX7021110**	Price
11.5mm	.4530	2-1/16	3-7/16	**AX7023115**	Price	**AX7021115**	Price
12.0mm	.4720	2-1/8	3-5/8	**AX7023120**	Price	**AX7021120**	Price
12.5mm	.4920	2-3/16	3-11/16	**AX7023125**	Price	**AX7021125**	Price

Hi-Tuff® Solid Carbide Drills

Screw Machine Length • 135° Point • Uncoated

- 12° Helix
- Designed for drilling stainless steel, tool steels, titanium, nickel base alloys and other high strength ferrous metals
- Screw machine lengths and a heavy web provide extra rigidity and strength
- Web-thinned drill point reduces power requirements, lowers drilling temperatures and extends tool life
- M.A. Ford List #205



Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/64	3/16	1-1/2	**AX3225013**	Price
1/32	3/8	1-1/2	**AX3225073**	Price
3/64	1/2	1-1/2	**AX3225136**	Price
1/16	5/8	1-5/8	**AX3225169**	Price
5/64	11/16	1-11/16	**AX3225199**	Price
3/32	3/4	1-3/4	**AX3225232**	Price
7/64	13/16	1-13/16	**AX3225265**	Price
1/8	7/8	1-7/8	**AX3225295**	Price
9/64	15/16	1-15/16	**AX3225319**	Price
5/32	1	2-1/16	**AX3225349**	Price
11/64	1-1/16	2-1/8	**AX3225379**	Price
3/16	1-1/8	2-3/16	**AX3225406**	Price
13/64	1-3/16	2-1/4	**AX3225439**	Price
7/32	1-1/4	2-3/8	**AX3225466**	Price
15/64	1-5/16	2-7/16	**AX3225490**	Price
1/4	1-3/8	2-1/2	**AX3225514**	Price
17/64	1-7/16	2-5/8	**AX3225535**	Price
9/32	1-1/2	2-11/16	**AX3225562**	Price
19/64	1-9/16	2-3/4	**AX3225583**	Price
5/16	1-5/8	2-13/16	**AX3225601**	Price
21/64	1-11/16	2-15/16	**AX3225622**	Price
11/32	1-11/16	2-15/16	**AX3225643**	Price
23/64	1-3/4	3-1/16	**AX3225664**	Price
3/8	1-13/16	3-1/8	**AX3225682**	Price
25/64	1-7/8	3-1/4	**AX3225703**	Price
13/32	1-15/16	3-5/16	**AX3225724**	Price
27/64	2	3-3/8	**AX3225742**	Price
7/16	2-1/16	3-7/16	**AX3225757**	Price
29/64	2-1/8	3-5/8	**AX3225772**	Price
15/32	2-1/8	3-5/8	**AX3225787**	Price
31/64	2-3/16	3-11/16	**AX3225793**	Price
1/2	2-1/4	3-3/4	**AX3225799**	Price
17/32	2-3/8	3-7/8	**AX3225808**	Price
9/16	2-1/2	4	**AX3225820**	Price
5/8	2-3/4	4-1/4	**AX3225841**	Price
11/16	2-7/8	4-5/8	**AX3225862**	Price
3/4	3-1/8	5	**AX3225886**	Price

Also available in wire gage, letter, and metric sizes

Hi-Roc® Solid Carbide Drills

Screw Machine Length • 135° Point • Uncoated

- Straight flute
- Designed to drill hardened steel in the 42-65 Rockwell “C” range
- Produces chips without generating excessive heat
- Accurately sized holes are produced without annealing or softening the workpiece
- Reamer type finishes are easily produced
- Both a production drill and a salvage or reclaim tool
- M.A. Ford Series #200



Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/32	3/16	1-1/2	**AX3020004**	Price
3/64	1/4	1-1/2	**AX3020067**	Price
1/16	5/16	1-1/2	**AX3020100**	Price
5/64	3/8	1-1/2	**AX3020130**	Price
3/32	1/2	1-1/2	**AX3020163**	Price
7/64	5/8	1-1/2	**AX3020199**	Price
1/8	5/8	1-1/2	**AX3020229**	Price
9/64	5/8	2	**AX3020253**	Price
5/32	5/8	2	**AX3020283**	Price
11/64	5/8	2	**AX3020313**	Price
3/16	5/8	2	**AX3020340**	Price
13/64	3/4	2	**AX3020376**	Price
7/32	3/4	2	**AX3020403**	Price
15/64	3/4	2	**AX3020427**	Price
1/4	3/4	2	**AX3020451**	Price
17/64	3/4	2-1/2	**AX3020472**	Price
9/32	3/4	2-1/2	**AX3020499**	Price
19/64	3/4	2-1/2	**AX3020520**	Price
5/16	3/4	2-1/2	**AX3020541**	Price
21/64	1	2-1/2	**AX3020562**	Price
11/32	1	2-1/2	**AX3020583**	Price
23/64	1	2-1/2	**AX3020604**	Price
3/8	1	2-1/2	**AX3020622**	Price
25/64	1	2-3/4	**AX3020643**	Price
13/32	1	2-3/4	**AX3020664**	Price
27/64	1	2-3/4	**AX3020682**	Price
7/16	1	2-3/4	**AX3020697**	Price
29/64	1	3	**AX3020712**	Price
15/32	1	3	**AX3020727**	Price
31/64	1	3	**AX3020733**	Price
1/2	1	3	**AX3020739**	Price
33/64	1-1/8	3-1/2	**AX3020745**	Price
17/32	1-1/8	3-1/2	**AX3020748**	Price
9/16	1-1/8	3-1/2	**AX3020760**	Price
5/8	1-1/4	3-1/2	**AX3020781**	Price
11/16	1-1/2	4	**AX3020802**	Price
3/4	1-1/2	4	**AX3020826**	Price

Also available in wire gage, letter, and metric sizes

RAPIDKUT® Solid Carbide Straight Flute Drills

140° Notched Point • Uncoated or TiAlN Coated

- Specifically designed for increased edge strength & precision tight tolerance holes
- Capable of producing reamer type finishes in work hardened and abrasive materials such as: chrome alloys, heat treated alloys, nickel alloys, titanium alloys, steel & stainless steel weldments
- C-2 grade premium sub-micron carbide with 10% cobalt



Price							
				TiAlN		Uncoated	
Drill Dia.	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/32	.0312	1/2	1-1/2	**AX7111002**	Price	**AX7110002**	Price
3/64	.0469	1/2	1-1/2	**AX7111003**	Price	**AX7110003**	Price
1/16	.0625	5/8	1-5/8	**AX7111004**	Price	**AX7110004**	Price
5/64	.0781	11/16	1-11/16	**AX7111005**	Price	**AX7110005**	Price
3/32	.0938	3/4	1-3/4	**AX7111006**	Price	**AX7110006**	Price
7/64	.1094	13/16	1-13/16	**AX7111007**	Price	**AX7110007**	Price
1/8	.1250	7/8	1-7/8	**AX7111008**	Price	**AX7110008**	Price
9/64	.1406	15/16	1-15/16	**AX7111009**	Price	**AX7110009**	Price
5/32	.1562	1	2-1/16	**AX7111010**	Price	**AX7110010**	Price
11/64	.1719	1-1/16	2-1/8	**AX7111011**	Price	**AX7110011**	Price
3/16	.1875	1-1/8	2-3/16	**AX7111012**	Price	**AX7110012**	Price
13/64	.2031	1-3/16	2-1/4	**AX7111013**	Price	**AX7110013**	Price
7/32	.2188	1-1/4	2-3/8	**AX7111014**	Price	**AX7110014**	Price
15/64	.2344	1-5/16	2-7/16	**AX7111015**	Price	**AX7110015**	Price
1/4	.2500	1-3/8	2-1/2	**AX7111016**	Price	**AX7110016**	Price
17/64	.2656	1-7/16	2-5/8	**AX7111017**	Price	**AX7110017**	Price
9/32	.2812	1-1/2	2-11/16	**AX7111018**	Price	**AX7110018**	Price
19/64	.2969	1-9/16	2-3/4	**AX7111019**	Price	**AX7110019**	Price
5/16	.3125	1-5/8	2-13/16	**AX7111020**	Price	**AX7110020**	Price
21/64	.3281	1-11/16	2-15/16	**AX7111021**	Price	**AX7110021**	Price
11/32	.3438	1-11/16	3	**AX7111022**	Price	**AX7110022**	Price
23/64	.3594	1-3/4	3-1/16	**AX7111023**	Price	**AX7110023**	Price
3/8	.3750	1-13/16	3-1/8	**AX7111024**	Price	**AX7110024**	Price
25/64	.3906	1-7/8	3-1/4	**AX7111025**	Price	**AX7110025**	Price
13/32	.4062	1-15/16	3-5/16	**AX7111026**	Price	**AX7110026**	Price
27/64	.4219	2	3-3/8	**AX7111027**	Price	**AX7110027**	Price
7/16	.4375	2-1/16	3-7/16	**AX7111028**	Price	**AX7110028**	Price
29/64	.4531	2-1/8	3-9/16	**AX7111029**	Price	**AX7110029**	Price
15/32	.4688	2-1/8	3-5/8	**AX7111030**	Price	**AX7110030**	Price
31/64	.4844	2-3/16	3-11/16	**AX7111031**	Price	**AX7110031**	Price
1/2	.5000	2-1/4	3-3/4	**AX7111032**	Price	**AX7110032**	Price

- Metric					
				Uncoated	
Drill Dia.	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
1mm	.0394	1/2	1-1/2	**AX7120010**	Price
1.5mm	.0591	1/2	1-1/2	**AX7120015**	Price
2mm	.0787	3/4	1-3/4	**AX7120020**	Price
2.5mm	.0984	13/16	1-13/16	**AX7120025**	Price
3mm	.1181	7/8	1-7/8	**AX7120030**	Price
3.5mm	.1378	15/16	1-15/16	**AX7120035**	Price
4mm	.1575	1-1/16	2-1/8	**AX7120040**	Price
4.5mm	.1772	1-1/8	2-3/16	**AX7120045**	Price
5mm	.1969	1-3/16	2-1/4	**AX7120050**	Price
5.5mm	.2165	1-1/4	2-3/8	**AX7120055**	Price
6mm	.2362	1-5/16	2-7/16	**AX7120060**	Price
6.5mm	.2559	1-3/8	2-1/2	**AX7120065**	Price
7mm	.2756	1-1/2	2-11/16	**AX7120070**	Price
7.5mm	.2953	1-9/16	2-3/4	**AX7120075**	Price
8mm	.3150	1-5/8	2-13/16	**AX7120080**	Price
8.5mm	.3346	1-11/16	3	**AX7120085**	Price
9mm	.3543	1-3/4	3-1/16	**AX7120090**	Price
9.5mm	.3740	1-13/16	3-1/8	**AX7120095**	Price
10mm	.3937	1-7/8	3-1/4	**AX7120100**	Price
10.5mm	.4134	2	3-3/8	**AX7120150**	Price
11mm	.4331	2	3-3/8	**AX7120110**	Price
11.5mm	.4528	2-1/16	3-7/16	**AX7120115**	Price
12mm	.4724	2-1/8	3-5/8	**AX7120120**	Price
12.5mm	.4921	2-3/16	3-11/16	**AX7120125**	Price

RAPIDKUT® Solid Carbide Straight Flute Drills



140° Notched Point • Uncoated

- Specifically designed for increased edge strength & precision tight tolerance holes
- Capable of producing reamer type finishes in work hardened and abrasive materials such as: chrome alloys, heat treated alloys, nickel alloys, titanium alloys, steel & stainless steel weldments
- Solid carbide C-2 grade premium sub-micron carbide with 10% cobalt

Price					
Drill Dia.	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
A	.2340	1-5/16	2-7/16	**AX7110201**	Price
B	.2380	1-3/8	2-1/2	**AX7110202**	Price
C	.2420	1-3/8	2-1/2	**AX7110203**	Price
D	.2460	1-3/8	2-1/2	**AX7110204**	Price
E	.2500	1-3/8	2-1/2	**AX7110205**	Price
F	.2570	1-7/16	2-5/8	**AX7110206**	Price
G	.2610	1-7/16	2-5/8	**AX7110207**	Price
H	.2660	1-1/2	2-11/16	**AX7110208**	Price
I	.2720	1-1/2	2-11/16	**AX7110209**	Price
J	.2770	1-1/2	2-11/16	**AX7110210**	Price
K	.2810	1-1/2	2-11/16	**AX7110211**	Price
L	.2900	1-9/16	2-3/4	**AX7110212**	Price
M	.2950	1-9/16	2-3/4	**AX7110213**	Price
N	.3020	1-5/8	2-13/16	**AX7110214**	Price
O	.3160	1-11/16	2-15/16	**AX7110215**	Price
P	.3230	1-11/16	2-15/16	**AX7110216**	Price
Q	.3320	1-11/16	3	**AX7110217**	Price
R	.3390	1-11/16	3	**AX7110218**	Price
S	.3480	1-3/4	3-1/16	**AX7110219**	Price
T	.3580	1-3/4	3-1/16	**AX7110220**	Price
U	.3680	1-13/16	3-1/8	**AX7110221**	Price
V	.3770	1-7/8	3-1/4	**AX7110222**	Price
W	.3860	1-7/8	3-1/4	**AX7110223**	Price
X	.3970	1-15/16	3-5/16	**AX7110224**	Price
Y	.4040	1-15/16	3-5/16	**AX7110225**	Price
Z	.4130	2	3-3/8	**AX7110226**	Price

Type - Wire Gage Size					
Drill Dia.	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
1	.2280	1-5/16	2-7/16	**AX7110101**	Price
2	.2210	1-5/16	2-7/16	**AX7110102**	Price
3	.2130	1-1/4	2-3/8	**AX7110103**	Price
4	.2090	1-1/4	2-3/8	**AX7110104**	Price
5	.2055	1-1/4	2-3/8	**AX7110105**	Price
6	.2040	1-1/4	2-3/8	**AX7110106**	Price
7	.2010	1-3/16	2-1/4	**AX7110107**	Price
8	.1990	1-3/16	2-1/4	**AX7110108**	Price
9	.1960	1-3/16	2-1/4	**AX7110109**	Price
10	.1935	1-3/16	2-1/4	**AX7110110**	Price
11	.1910	1-3/16	2-1/4	**AX7110111**	Price
12	.1890	1-3/16	2-1/4	**AX7110112**	Price
13	.1850	1-1/8	2-3/16	**AX7110113**	Price
14	.1820	1-1/8	2-3/16	**AX7110114**	Price
15	.1800	1-1/8	2-3/16	**AX7110115**	Price
16	.1770	1-1/8	2-3/16	**AX7110116**	Price
17	.1730	1-1/8	2-3/16	**AX7110117**	Price
18	.1695	1-1/16	2-1/8	**AX7110118**	Price
19	.1660	1-1/16	2-1/8	**AX7110119**	Price
20	.1610	1-1/16	2-1/8	**AX7110120**	Price
21	.1590	1-1/16	2-1/8	**AX7110121**	Price
22	.1570	1-1/16	2-1/8	**AX7110122**	Price
23	.1540	1	2-1/16	**AX7110123**	Price
24	.1520	1	2-1/16	**AX7110124**	Price
25	.1495	1	2-1/16	**AX7110125**	Price
26	.1470	1	2-1/16	**AX7110126**	Price
27	.1440	1	2-1/16	**AX7110127**	Price
28	.1405	15/16	1-15/16	**AX7110128**	Price
29	.1360	15/16	1-15/16	**AX7110129**	Price
30	.1285	15/16	1-15/16	**AX7110130**	Price
31	.1200	7/8	1-7/8	**AX7110131**	Price
32	.1160	7/8	1-7/8	**AX7110132**	Price
33	.1130	7/8	1-7/8	**AX7110133**	Price
34	.1110	7/8	1-7/8	**AX7110134**	Price
35	.1100	7/8	1-7/8	**AX7110135**	Price
36	.1065	13/16	1-13/16	**AX7110136**	Price
37	.1040	13/16	1-13/16	**AX7110137**	Price
38	.1015	13/16	1-13/16	**AX7110138**	Price
39	.0995	13/16	1-13/16	**AX7110139**	Price
40	.0980	13/16	1-13/16	**AX7110140**	Price
41	.0960	13/16	1-13/16	**AX7110141**	Price
42	.0935	3/4	1-3/4	**AX7110142**	Price
43	.0890	3/4	1-3/4	**AX7110143**	Price
44	.0860	3/4	1-3/4	**AX7110144**	Price
45	.0820	3/4	1-3/4	**AX7110145**	Price
46	.0810	3/4	1-3/4	**AX7110146**	Price
47	.0785	3/4	1-3/4	**AX7110147**	Price
48	.0760	11/16	1-11/16	**AX7110148**	Price
49	.0730	11/16	1-11/16	**AX7110149**	Price
50	.0700	11/16	1-11/16	**AX7110150**	Price
51	.0670	11/16	1-11/16	**AX7110151**	Price
52	.0635	11/16	1-11/16	**AX7110152**	Price
53	.0595	1/2	1-1/2	**AX7110153**	Price
54	.0550	1/2	1-1/2	**AX7110154**	Price
55	.0520	1/2	1-1/2	**AX7110155**	Price
56	.0465	1/2	1-1/2	**AX7110156**	Price

Solid Carbide Circuit Board Drills

130° Point

- All listed drills have a 1/8" (3.175mm) shank
- 35° Helix
- M.A. Ford List #302



Price				
Size	Dec. Equiv.	Flute Length	Order No.	Price
.006	.0060	.1000	**AX4232025**	Price
.008	.0080	.1250	**AX4232057**	Price
.009	.0090	.1250	**AX4232069**	Price

Type - Fractional Size				
Size	Dec. Equiv.	Flute Length	Order No.	Price
1/64	.0156	.2500	**AX4232131**	Price
1/64	.0156	.1900	**AX4232129**	Price
1/32	.0312	.2500	**AX4232209**	Price
1/32	.0312	.4000	**AX4232211**	Price
3/64	.0469	.4000	**AX4232293**	Price
1/16	.0625	.4800	**AX4232345**	Price
5/64	.0781	.4800	**AX4232401**	Price
3/32	.0938	.4800	**AX4232461**	Price
7/64	.1094	.4800	**AX4232521**	Price
1/8	.1250	.4800	**AX4232569**	Price
9/64	.1406	.4800	**AX4236025**	Price
5/32	.1562	.4800	**AX4236051**	Price
11/64	.1719	.4800	**AX4236079**	Price
3/16	.1875	.4800	**AX4236105**	Price
13/64	.2031	.4800	**AX4236133**	Price
1/4	.2500	.4800	**AX4236201**	Price

Type - Letter Size				
Size	Dec. Equiv.	Flute Length	Order No.	Price
B	.2380	.4800	**AX4236187**	Price

Type - Metric Size				
Size	Dec. Equiv.	Flute Length	Order No.	Price
0.25mm	.0098	.1500	**AX4232081**	Price
0.3mm	.0118	.1900	**AX4232101**	Price
0.35mm	.0138	.1900	**AX4232121**	Price
0.35mm	.0138	.2500	**AX4232123**	Price
0.4mm	.0157	.1900	**AX4232133**	Price
0.45mm	.0177	.1900	**AX4232141**	Price
0.45mm	.0177	.2500	**AX4232143**	Price
0.5mm	.0197	.1900	**AX4232149**	Price
0.5mm	.0197	.2500	**AX4232151**	Price
0.55mm	.0217	.1900	**AX4232161**	Price
0.55mm	.0217	.2500	**AX4232163**	Price
0.6mm	.0236	.1900	**AX4232169**	Price
0.65mm	.0256	.2500	**AX4232183**	Price
0.65mm	.0256	.1900	**AX4232181**	Price
0.7mm	.0276	.4000	**AX4232192**	Price
0.75mm	.0295	.4000	**AX4232204**	Price
0.75mm	.0295	.2500	**AX4232201**	Price
0.8mm	.0315	.4000	**AX4232215**	Price
0.85mm	.0335	.4000	**AX4232227**	Price
0.9mm	.0354	.4000	**AX4232233**	Price
0.95mm	.0374	.4000	**AX4232245**	Price
1.1mm	.0433	.4000	**AX4232281**	Price
1.15mm	.0452	.4000	**AX4232285**	Price
1.2mm	.0472	.4000	**AX4232297**	Price
1.25mm	.0492	.4000	**AX4232301**	Price
1.3mm	.0511	.4000	**AX4232305**	Price
1.35mm	.0531	.4000	**AX4232313**	Price
1.4mm	.0551	.4000	**AX4232321**	Price
1.45mm	.0571	.4000	**AX4232325**	Price
1.5mm	.0590	.4000	**AX4232329**	Price
1.55mm	.0610	.4000	**AX4232341**	Price
1.6mm	.0630	.4800	**AX4232349**	Price
1.65mm	.0649	.4800	**AX4232357**	Price
1.8mm	.0708	.4800	**AX4232377**	Price
1.9mm	.0748	.4800	**AX4232389**	Price
2mm	.0787	.4800	**AX4232409**	Price
2.3mm	.0906	.4800	**AX4232449**	Price
2.4mm	.0945	.4800	**AX4232465**	Price
2.45mm	.0965	.4800	**AX4232473**	Price
2.5mm	.0984	.4800	**AX4232481**	Price
2.75mm	.1083	.4800	**AX4232517**	Price
3.1mm	.1220	.4800	**AX4232561**	Price
3.15mm	.1240	.4800	**AX4232565**	Price
3.2mm	.1260	.4800	**AX4236003**	Price
3.35mm	.1319	.4800	**AX4236011**	Price
3.5mm	.1378	.4800	**AX4236019**	Price
5mm	.1969	.4800	**AX4236121**	Price
6.3mm	.2480	.4800	**AX4236199**	Price

Price				
Size	Dec. Equiv.	Flute Length	Order No.	Price
#4	.2090	.4800	**AX4236145**	Price
#13	.1850	.4800	**AX4236101**	Price
#19	.1660	.4800	**AX4236069**	Price
#25	.1495	.4800	**AX4236039**	Price
#30	.1285	.4800	**AX4236007**	Price
#31	.1200	.4800	**AX4232557**	Price
#32	.1160	.4800	**AX4232549**	Price
#33	.1130	.4800	**AX4232541**	Price
#34	.1110	.4800	**AX4232533**	Price
#35	.1100	.4800	**AX4232525**	Price
#36	.1065	.4800	**AX4232513**	Price
#37	.1040	.4800	**AX4232501**	Price
#38	.1015	.4800	**AX4232493**	Price
#39	.0995	.4800	**AX4232485**	Price
#40	.0980	.4800	**AX4232477**	Price
#41	.0960	.4800	**AX4232469**	Price
#42	.0935	.4800	**AX4232457**	Price
#43	.0890	.4800	**AX4232445**	Price
#44	.0860	.4800	**AX4232433**	Price
#45	.0820	.4800	**AX4232421**	Price
#46	.0810	.4800	**AX4232417**	Price
#47	.0785	.4800	**AX4232405**	Price
#48	.0760	.4800	**AX4232393**	Price
#49	.0730	.4800	**AX4232385**	Price
#50	.0700	.4800	**AX4232373**	Price
#51	.0670	.4800	**AX4232365**	Price
#52	.0635	.4800	**AX4232353**	Price
#53	.0595	.4000	**AX4232333**	Price
#54	.0550	.4000	**AX4232317**	Price
#55	.0520	.4000	**AX4232309**	Price
#56	.0465	.4000	**AX4232289**	Price
#57	.0430	.4000	**AX4232277**	Price
#58	.0420	.4000	**AX4232273**	Price
#59	.0410	.4000	**AX4232265**	Price
#60	.0400	.4000	**AX4232261**	Price
#61	.0390	.4000	**AX4232253**	Price
#62	.0380	.4000	**AX4232249**	Price
#63	.0370	.4000	**AX4232241**	Price
#64	.0360	.4000	**AX4232237**	Price
#65	.0350	.4000	**AX4232229**	Price
#66	.0330	.4000	**AX4232223**	Price
#66	.0330	.2500	**AX4232221**	Price
#67	.0320	.4000	**AX4232219**	Price
#67	.0320	.2500	**AX4232217**	Price
#68	.0310	.2500	**AX4232205**	Price
#68	.0310	.4000	**AX4232207**	Price
#69	.0292	.2500	**AX4232197**	Price
#69	.0292	.4000	**AX4232200**	Price
#70	.0280	.3200	**AX4232195**	Price
#70	.0280	.4000	**AX4232196**	Price
#70	.0280	.2500	**AX4232193**	Price
#71	.0260	.2500	**AX4232187**	Price
#71	.0260	.3200	**AX4232188**	Price
#72	.0250	.1900	**AX4232177**	Price
#72	.0250	.3200	**AX4232180**	Price
#72	.0250	.2500	**AX4232179**	Price
#73	.0240	.3200	**AX4232176**	Price
#73	.0240	.1900	**AX4232173**	Price
#73	.0240	.2500	**AX4232175**	Price
#74	.0230	.3200	**AX4232168**	Price
#74	.0225	.1900	**AX4232165**	Price
#74	.0225	.2500	**AX4232167**	Price
#75	.0210	.1900	**AX4232157**	Price
#75	.0210	.2500	**AX4232159**	Price
#75	.0210	.3200	**AX4232160**	Price
#76	.0200	.3200	**AX4232156**	Price
#76	.0200	.1900	**AX4232153**	Price
#76	.0200	.2500	**AX4232155**	Price
#77	.0180	.1900	**AX4232145**	Price
#77	.0180	.3200	**AX4232148**	Price
#78	.0160	.2500	**AX4232139**	Price
#78	.0160	.1900	**AX4232137**	Price
#79	.0145	.2500	**AX4232127**	Price
#79	.0145	.1900	**AX4232125**	Price
#80	.0135	.2500	**AX4232119**	Price
#82	.0125	.1900	**AX4232109**	Price
#83	.0120	.1900	**AX4232105**	Price
#84	.0115	.1500	**AX4232097**	Price
#85	.0110	.1500	**AX4232093**	Price
#87	.0100	.1500	**AX4232085**	Price
#92	.0079	.1250	**AX4232053**	Price

Hi-Roc® Drill Sets

- Each set contains a selection of more frequently used, fractional size drills
- Packed in a plastic case



Price	Order No.	Price
1/16, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4	**AX3020367**	Price
1/8, 3/16, 1/4, 5/16, 3/8	**AX3020181**	Price
3/64, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 11/64, 3/16	**AX3020526**	Price

RAPIDKUT® Solid Carbide Spade Drills



- Recommended for drilling shallow holes in hard, high strength materials such as steel with a Rockwell Rc50
- Highly shock resistant
- Prolongs tool life in machining hard stainless steels & exotic metals
- Cuts tool steels that are heat treated
- Vastly increased speed and feed rates

Head Dia. (in.)	OAL (in.)	Web Thick. at Point	Incl. Angle of Flutes	Order No.	Price
3/32	1-1/2	.015	10°	**DD561200**	Price
1/8	1-1/2	.015	10°	**DD561201**	Price
5/32	2	.020	14°	**DD561202**	Price
3/16	2	.020	14°	**DD561203**	Price
7/32	2	.025	16°	**DD561204**	Price
1/4	2	.025	16°	**DD561205**	Price
9/32	2	.030	16°	**DD561206**	Price
5/16	2	.030	18°	**DD561207**	Price
11/32	2-1/2	.035	18°	**DD561208**	Price
3/8	2-1/2	.035	18°	**DD561209**	Price
13/32	2-1/2	.045	20°	**DD561210**	Price
7/16	2-1/2	.050	20°	**DD561211**	Price
15/32	2-1/2	.055	20°	**DD561212**	Price
1/2	2-1/2	.060	20°	**DD561213**	Price

MICRO 100 Solid Carbide Spade Drills



- Highly shock resistant
- Prolongs tool life in machining hard stainless steels & exotic metals
- Cuts tool steels that are heat treated
- Vastly increased speed and feed rates

Head Dia. (in.)	OAL (in.)	Web Thick. at Point	Incl. Angle of Flutes	Order No.	Price
1/32	1-1/4	.010	6°	**GE45SD031**	Price
1/16	1-1/2	.012	10°	**GE45SD062**	Price
3/32	1-1/2	.016	10°	**GE45SD093**	Price
1/8	1-1/2	.020	14°	**GE45SD125**	Price
5/32	2	.025	16°	**GE45SD156**	Price
3/16	2	.028	16°	**GE45SD187**	Price
7/32	2	.030	18°	**GE45SD218**	Price
1/4	2	.035	18°	**GE45SD250**	Price
5/16	2-1/2	.040	18°	**GE45SD312**	Price
3/8	2-1/2	.046	18°	**GE45SD375**	Price
1/2	2-1/2	.060	22°	**GE45SD500**	Price

FULLERTON Solid Carbide Composite Poly Drill

Series 5566 - 3 Flute



- Produces a clean, burr-free hole without breakout in carbon composites, fiber glass, fiber reinforced composites, plastics and green ceramics
- Three-flute design allows for ultimate material removal rates and burr teeth provide a clean shearing of fibers
- 3 Flute
- 90° Point
- Parabolic flute
- Burr teeth
- Right hand spiral, right hand cut
- Available uncoated or with FC-1 CVD diamond coating
- Shank diameter tolerance: +.0000 -.0005" / +0.000-0.013mm
- Cutter diameter tolerance: +.0000 -.0005" / +0.000-0.013mm

Description - Fractional Size						
			FC1		Uncoated	
Drill Dia.	Flute Length	OAL	Order No.	Price	Order No.	Price
1/4	1-1/2	4	**FT8225303**	Price	**FT8225322**	Price
17/64	1-1/2	4	**FT8225339**	Price	**FT8225338**	Price
9/32	1-1/2	4	**FT8225341**	Price	**FT8225340**	Price
5/16	1-1/2	4-1/2	**FT8225308**	Price	**FT8225327**	Price
3/8	1-1/2	5	**FT8225343**	Price	**FT8225342**	Price
25/64	1-1/2	5	**FT8225345**	Price	**FT8225344**	Price
7/16	1-1/2	6	**FT8225347**	Price	**FT8225346**	Price
1/2	1-1/2	6	**FT8225318**	Price	**FT8225337**	Price
33/64	1-1/2	6	**FT8225349**	Price	**FT8225348**	Price

Description - Metric Size						
			FC1		Uncoated	
Drill Dia.	Flute Length	OAL	Order No.	Price	Order No.	Price
5mm	32mm	100mm	**FT8225301**	Price	**FT8225320**	Price
6mm	32mm	100mm	**FT8225302**	Price	**FT8225321**	Price
6.4mm	38mm	102mm	**FT8225304**	Price	**FT8225323**	Price
6.5mm	38mm	105mm	**FT8225305**	Price	**FT8225324**	Price
7mm	38mm	105mm	**FT8225306**	Price	**FT8225325**	Price
7.5mm	38mm	110mm	**FT8225307**	Price	**FT8225326**	Price
8mm	38mm	115mm	**FT8225309**	Price	**FT8225328**	Price
8.5mm	38mm	120mm	**FT8225310**	Price	**FT8225329**	Price
9mm	38mm	125mm	**FT8225311**	Price	**FT8225330**	Price
9.5mm	38mm	125mm	**FT8225312**	Price	**FT8225331**	Price
10mm	38mm	130mm	**FT8225313**	Price	**FT8225332**	Price
10.5mm	38mm	137mm	**FT8225314**	Price	**FT8225333**	Price
11mm	38mm	140mm	**FT8225315**	Price	**FT8225334**	Price
11.5mm	38mm	143mm	**FT8225316**	Price	**FT8225335**	Price
12mm	38mm	150mm	**FT8225317**	Price	**FT8225336**	Price

Description - Wire Gage Size						
			FC1		Uncoated	
Drill Dia.	Flute Length	OAL	Order No.	Price	Order No.	Price
#11	1	4	**FT8225300**	Price	**FT8225319**	Price

RAPIDKUT® 3xD High Performance Solid Carbide Drills

- For use in a wide variety of materials including carbon steel, alloy steel, stainless steel, hardened steel, cast iron, aluminum alloys, titanium and others
- 140° Point and 30° helix high performance geometry allows for high penetration rates
- These high penetration drills provide accurate hole sizing as well as near burnished holes
- TiAlN coated



- Fractional					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	1/4	15/32	2.36	**AX8020005**	Price
9/64	1/4	17/32	2.44	**AX8020010**	Price
5/32	1/4	19/32	2.44	**AX8020015**	Price
11/64	1/4	21/32	2.52	**AX8020020**	Price
3/16	1/4	23/32	2.52	**AX8020025**	Price
13/64	1/4	49/64	2.60	**AX8020030**	Price
7/32	1/4	53/64	2.60	**AX8020035**	Price
1/4	1/4	15/16	3	**AX8020040**	Price
9/32	5/16	1-1/16	3	**AX8020045**	Price
5/16	5/16	1-3/16	3	**AX8020050**	Price
11/32	3/8	1-19/64	3.5	**AX8020055**	Price
3/8	3/8	1-13/32	3.5	**AX8020060**	Price
7/16	7/16	1-21/32	4.02	**AX8020065**	Price
1/2	1/2	1-7/8	4.02	**AX8020070**	Price
9/16	9/16	2-1/8	4.33	**AX8020075**	Price
5/8	5/8	2-11/32	4.33	**AX8020080**	Price
3/4	3/4	2-13/16	5.04	**AX8020085**	Price

- Metric					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
3mm	6mm	20mm	62mm	**AX8030005**	Price
3.1mm	6mm	20mm	62mm	**AX8030007**	Price
3.2mm	6mm	20mm	62mm	**AX8030009**	Price
3.3mm	6mm	20mm	62mm	**AX8030010**	Price
3.4mm	6mm	20mm	62mm	**AX8030012**	Price
3.5mm	6mm	20mm	62mm	**AX8030015**	Price
3.6mm	6mm	20mm	62mm	**AX8030017**	Price
3.7mm	6mm	20mm	62mm	**AX8030020**	Price
3.8mm	1/4	20mm	2-1/2	**AX8030022**	Price
3.9mm	6mm	20mm	62mm	**AX8030024**	Price
4mm	6mm	24mm	66mm	**AX8030025**	Price
4.1mm	6mm	24mm	66mm	**AX8030027**	Price
4.2mm	6mm	24mm	66mm	**AX8030030**	Price
4.3mm	1/4	24mm	2-1/2	**AX8030032**	Price
4.4mm	6mm	24mm	66mm	**AX8030034**	Price
4.5mm	6mm	24mm	66mm	**AX8030035**	Price
4.6mm	6mm	24mm	66mm	**AX8030036**	Price
4.7mm	1/4	24mm	2-1/2	**AX8030037**	Price
4.8mm	1/4	24mm	2-1/2	**AX8030038**	Price
4.9mm	6mm	24mm	66mm	**AX8030039**	Price
5mm	6mm	24mm	66mm	**AX8030040**	Price
5.1mm	6mm	24mm	66mm	**AX8030041**	Price
5.2mm	6mm	24mm	66mm	**AX8030045**	Price
5.3mm	6mm	24mm	66mm	**AX8030046**	Price
5.4mm	6mm	24mm	66mm	**AX8030049**	Price
5.5mm	6mm	24mm	66mm	**AX8030050**	Price
5.6mm	6mm	24mm	66mm	**AX8030052**	Price
5.7mm	6mm	24mm	66mm	**AX8030053**	Price
5.8mm	6mm	24mm	66mm	**AX8030054**	Price
6mm	6mm	24mm	66mm	**AX8030055**	Price
6.2mm	8mm	34mm	79mm	**AX8030060**	Price
6.4mm	8mm	34mm	79mm	**AX8030062**	Price
6.5mm	8mm	34mm	79mm	**AX8030065**	Price
6.6mm	8mm	34mm	79mm	**AX8030067**	Price
6.8mm	8mm	34mm	79mm	**AX8030068**	Price
6.83mm	8mm	34mm	79mm	**AX8030070**	Price
6.9mm	8mm	34mm	79mm	**AX8030072**	Price
7mm	8mm	34mm	79mm	**AX8030075**	Price
7.3mm	8mm	34mm	79mm	**AX8030077**	Price
7.5mm	8mm	41mm	79mm	**AX8030080**	Price
7.6mm	8mm	41mm	79mm	**AX8030082**	Price
7.8mm	8mm	41mm	79mm	**AX8030084**	Price
8mm	8mm	41mm	79mm	**AX8030085**	Price
8.1mm	10mm	47mm	89mm	**AX8030087**	Price
8.2mm	10mm	47mm	89mm	**AX8030088**	Price
8.5mm	10mm	47mm	89mm	**AX8030090**	Price
8.4mm	10mm	47mm	89mm	**AX8030089**	Price
8.8mm	10mm	47mm	89mm	**AX8030095**	Price
9mm	10mm	47mm	89mm	**AX8030100**	Price
9.2mm	10mm	47mm	89mm	**AX8030105**	Price
9.5mm	10mm	47mm	89mm	**AX8030110**	Price

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RAPIDKUT 3xD High Performance Solid Carbide Drills



(continued from previous page)

- Metric					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
9.8mm	10mm	47mm	89mm	**AX8030112**	Price
10mm	10mm	47mm	89mm	**AX8030115**	Price
10.2mm	12mm	55mm	102mm	**AX8030120**	Price
10.5mm	12mm	55mm	102mm	**AX8030125**	Price
10.8mm	12mm	55mm	102mm	**AX8030130**	Price
11mm	12mm	55mm	102mm	**AX8030135**	Price
11.5mm	12mm	55mm	102mm	**AX8030140**	Price
12mm	12mm	55mm	102mm	**AX8030145**	Price
12.5mm	14mm	60mm	107mm	**AX8030150**	Price
13mm	14mm	60mm	107mm	**AX8030155**	Price
13.5mm	14mm	60mm	107mm	**AX8030160**	Price
14mm	14mm	60mm	107mm	**AX8030165**	Price
14.5mm	16mm	65mm	115mm	**AX8030170**	Price
15mm	16mm	65mm	115mm	**AX8030175**	Price
15.5mm	16mm	65mm	115mm	**AX8030180**	Price
16mm	16mm	65mm	115mm	**AX8030185**	Price
17mm	18mm	73mm	123mm	**AX8030190**	Price
18mm	18mm	73mm	123mm	**AX8030195**	Price
19mm	20mm	79mm	131mm	**AX8030200**	Price
20mm	20mm	79mm	131mm	**AX8030205**	Price

Twister XD® High Performance Solid Carbide Drills

3xD Length • 142° Point • ALtima® Coated

- Designed for drilling a broad cross section of materials at increased feed rates
- 30° Helix to promote rapid chip evacuation
- M.A. Ford List #2XDSS



- Fractional Size					
Size (in.)	Shank Dia.	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	1/8	3/4	2-1/4	**AX2702104**	Price
9/64	5/32	7/8	2-1/2	**AX2702118**	Price
5/32	5/32	7/8	2-1/2	**AX2702124**	Price
11/64	3/16	1	2-1/2	**AX2702130**	Price
3/16	3/16	1	2-1/2	**AX2702136**	Price
13/64	15/64	1-1/8	3	**AX2702146**	Price
7/32	15/64	1-1/8	3	**AX2702156**	Price
15/64	15/64	1-1/8	3	**AX2702166**	Price
1/4	1/4	1-1/4	3	**AX2702180**	Price
17/64	5/16	1-3/8	3-1/4	**AX2702190**	Price
9/32	5/16	1-1/2	3-1/4	**AX2702198**	Price
19/64	5/16	1-1/2	3-1/4	**AX2702206**	Price
5/16	5/16	1-1/2	3-1/4	**AX2702214**	Price
21/64	25/64	1-11/16	3-1/2	**AX2702224**	Price
11/32	25/64	1-11/16	3-1/2	**AX2702228**	Price
23/64	25/64	1-11/16	3-1/2	**AX2702236**	Price
3/8	25/64	1-11/16	3-1/2	**AX2702246**	Price
25/64	25/64	1-11/16	3-1/2	**AX2702252**	Price
13/32	15/32	2	4	**AX2702258**	Price
27/64	15/32	2	4	**AX2702262**	Price
7/16	15/32	2	4	**AX2702266**	Price
15/32	15/32	2	4	**AX2702274**	Price
31/64	1/2	2	4	**AX2702280**	Price
1/2	1/2	2	4	**AX2702284**	Price
33/64	35/64	2-1/8	4-1/4	**AX2702290**	Price
35/64	35/64	2-1/8	4-1/4	**AX2702296**	Price
9/16	5/8	2-3/8	4-5/8	**AX2702300**	Price
19/32	5/8	2-3/8	4-5/8	**AX2702308**	Price
5/8	5/8	2-3/8	4-5/8	**AX2702314**	Price
21/32	45/64	2-1/2	4-13/16	**AX2702322**	Price
11/16	45/64	2-1/2	4-13/16	**AX2702326**	Price
3/4	3/4	2-3/4	5-1/4	**AX2702334**	Price

- Metric Size					
Size (in.)	Shank Dia.	Flute Length (in.)	OAL (in.)	Order No.	Price
3mm	3mm	16mm	57mm	**AX2702100**	Price
4mm	4mm	22mm	63mm	**AX2702126**	Price
5mm	5mm	26mm	63mm	**AX2702142**	Price
6mm	6mm	30mm	76mm	**AX2702168**	Price
7mm	8mm	35mm	82mm	**AX2702196**	Price
8mm	8mm	38mm	82mm	**AX2702216**	Price
9mm	10mm	43mm	89mm	**AX2702234**	Price
10mm	10mm	43mm	89mm	**AX2702254**	Price
11mm	12mm	51mm	101mm	**AX2702264**	Price
12mm	12mm	51mm	101mm	**AX2702276**	Price

DORMER ForceX High Performance Carbide Drills

3xD Length • 140° Point • TiAlN Coated

- Multi-application solid carbide drills, excellent for drilling a wide range of materials, including steel, stainless steel, cast iron & more
- 140º Point provides excellent centering capabilities
- Common shanks to cut collet cost
- Manufactured to DIN 6537
- Dormer List #R458



Type - Fractional Size					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	6mm	20mm	62mm	**PT400624845**	Price
9/64	6mm	20mm	62mm	**PT400625224**	Price
5/32	6mm	24mm	66mm	**PT400625163**	Price
11/64	6mm	24mm	66mm	**PT400624876**	Price
3/16	6mm	28mm	66mm	**PT400625033**	Price
13/64	6mm	28mm	66mm	**PT400624890**	Price
7/32	6mm	28mm	66mm	**PT400625194**	Price
15/64	6mm	28mm	66mm	**PT400624913**	Price
1/4	8mm	34mm	79mm	**PT400624838**	Price
17/64	8mm	34mm	79mm	**PT400624937**	Price
9/32	8mm	41mm	79mm	**PT400625217**	Price
19/64	8mm	41mm	79mm	**PT400624951**	Price
5/16	8mm	41mm	79mm	**PT400625156**	Price
21/64	10mm	47mm	89mm	**PT400624975**	Price
11/32	10mm	47mm	89mm	**PT400624869**	Price
23/64	10mm	47mm	89mm	**PT400624999**	Price
3/8	10mm	47mm	89mm	**PT400625057**	Price
25/64	10mm	47mm	89mm	**PT400625002**	Price
13/32	12mm	55mm	102mm	**PT400624883**	Price
27/64	12mm	55mm	102mm	**PT400625019**	Price
7/16	12mm	55mm	102mm	**PT400625187**	Price
29/64	12mm	55mm	102mm	**PT400625026**	Price
15/32	12mm	55mm	102mm	**PT400624906**	Price
31/64	14mm	60mm	107mm	**PT400625064**	Price
1/2	14mm	60mm	107mm	**PT400624821**	Price
17/32	14mm	60mm	107mm	**PT400624920**	Price
9/16	16mm	65mm	115mm	**PT400625200**	Price
19/32	16mm	65mm	115mm	**PT400624944**	Price
5/8	16mm	65mm	115mm	**PT400625170**	Price
21/32	18mm	73mm	123mm	**PT400624968**	Price
11/16	18mm	73mm	123mm	**PT400624852**	Price
3/4	20mm	79mm	131mm	**PT400625040**	Price

Type - Metric Size					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
4mm	6mm	21mm	54mm	**PT400615362**	Price
4.5mm	6mm	23mm	57mm	**PT400615393**	Price
5mm	6mm	25mm	61mm	**PT400615409**	Price
6mm	6mm	27mm	65mm	**PT400615430**	Price
6.5mm	8mm	30mm	69mm	**PT400615447**	Price
7mm	8mm	33mm	73mm	**PT400615478**	Price
8mm	8mm	35mm	78mm	**PT400615508**	Price
8.5mm	10mm	35mm	78mm	**PT400615515**	Price
9mm	10mm	38mm	82mm	**PT400615546**	Price
10mm	10mm	41mm	87mm	**PT400615133**	Price
10.5mm	12mm	41mm	87mm	**PT400615171**	Price
11mm	12mm	45mm	93mm	**PT400615188**	Price
11.5mm	12mm	45mm	93mm	**PT400615201**	Price
12mm	12mm	49mm	100mm	**PT400615218**	Price
14mm	14mm	52mm	104mm	**PT400615263**	Price
14.5mm	16mm	53mm	108mm	**PT400615287**	Price
15mm	16mm	53mm	108mm	**PT400615294**	Price

Cyclone™ XD Solid Carbide HP Coolant Thru Drills

3xD • Double Margin • Altima® Plus Coated

- 30° Helix
- 140° / 142° Drill Point
- Designed for drilling in a broad range of materials
- M.A. Ford List #CXDCS



Drill Dia.	Decimal Equiv.	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
#31	.1200	1/8	.7870	2.440	**AX2806780**	Price
1/8	.1250	1/8	.7870	2.440	**AX2806782**	Price
#30	.1285	5/32	.7870	2.440	**AX2806784**	Price
#29	.1360	5/32	.7870	2.440	**AX2806787**	Price
9/64	.1406	5/32	.7870	2.440	**AX2806789**	Price
#24	.1520	5/32	.9450	2.600	**AX2806793**	Price
5/32	.1562	5/32	.9450	2.600	**AX2806795**	Price
#21	.1590	3/16	.9450	2.600	**AX2806797**	Price
11/64	.1719	3/16	.9450	2.600	**AX2806801**	Price
3/16	.1875	3/16	1.102	2.600	**AX2806806**	Price
13/64	.2031	1/4	1.102	2.598	**AX2806811**	Price
7/32	.2187	1/4	1.102	2.598	**AX2806816**	Price
#2	.2210	1/4	1.102	2.598	**AX2806817**	Price
15/64	.2344	1/4	1.102	2.598	**AX2806821**	Price
C	.2420	1/4	1.339	3.110	**AX2806824**	Price
D	.2460	1/4	1.339	3.110	**AX2806826**	Price
1/4	.2500	1/4	1.339	3.110	**AX2806828**	Price
F	.2570	5/16	1.339	3.110	**AX2806831**	Price
G	.2610	5/16	1.339	3.110	**AX2806833**	Price
17/64	.2656	5/16	1.339	3.110	**AX2806835**	Price
9/32	.2812	5/16	1.614	3.110	**AX2806840**	Price
19/64	.2969	5/16	1.614	3.110	**AX2806845**	Price
5/16	.3125	5/16	1.614	3.110	**AX2806850**	Price
21/64	.3281	3/8	1.850	3.504	**AX2806855**	Price
Q	.3320	3/8	1.850	3.504	**AX2806857**	Price
11/32	.3438	3/8	1.850	3.504	**AX2806861**	Price
23/64	.3594	3/8	1.850	3.504	**AX2806866**	Price
3/8	.3750	3/8	1.850	3.504	**AX2806872**	Price
25/64	.3906	7/16	1.850	3.504	**AX2806877**	Price
13/32	.4062	7/16	2.165	4.016	**AX2806882**	Price
27/64	.4219	7/16	2.165	4.016	**AX2806887**	Price
7/16	.4375	7/16	2.165	4.016	**AX2806892**	Price
15/32	.4688	1/2	2.165	4.016	**AX2806901**	Price
31/64	.4844	1/2	2.362	4.213	**AX2806904**	Price
1/2	.5000	1/2	2.362	4.213	**AX2806906**	Price
33/64	.5156	9/16	2.362	4.213	**AX2806911**	Price
17/32	.5312	9/16	2.362	4.213	**AX2807089**	Price
35/64	.5469	9/16	2.362	4.213	**AX2806914**	Price
9/16	.5625	9/16	2.559	4.528	**AX2806916**	Price
19/32	.5938	5/8	2.559	4.528	**AX2806920**	Price
5/8	.6250	5/8	2.559	4.528	**AX2806924**	Price

Cyclone™ XD Solid Carbide High Performance Drills

3xD • Altima® Plus Coated

- 30° Helix
- 140° Drill Point
- Designed for drilling in a broad range of materials
- M.A. Ford List #CXDSS



Drill Dia.	Decimal Equiv.	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
#31	.1200	1/8	0.787	2.440	**AX2806616**	Price
1/8	.1250	1/8	0.787	2.440	**AX2806618**	Price
#30	.1285	5/32	0.787	2.440	**AX2806620**	Price
#29	.1360	5/32	0.787	2.440	**AX2806623**	Price
9/64	.1406	5/32	0.787	2.440	**AX2806625**	Price
#24	.1520	5/32	0.945	2.598	**AX2806629**	Price
5/32	.1562	5/32	0.945	2.598	**AX2806631**	Price
#21	.1590	5/32	0.945	2.598	**AX2806633**	Price
11/64	.1719	3/16	0.945	2.598	**AX2806637**	Price
3/16	.1875	3/16	1.102	2.598	**AX2806642**	Price
13/64	.2031	1/4	1.102	2.598	**AX2806647**	Price
7/32	.2187	1/4	1.102	2.598	**AX2806652**	Price
#2	.2210	1/4	1.102	2.598	**AX2806653**	Price
15/64	.2344	1/4	1.102	2.598	**AX2806657**	Price
C	.2420	1/4	1.339	3.110	**AX2806660**	Price
D	.2460	1/4	1.339	3.110	**AX2806662**	Price
1/4	.2500	1/4	1.339	3.110	**AX2806664**	Price
F	.2570	5/16	1.339	3.110	**AX2806667**	Price
G	.2610	5/16	1.339	3.110	**AX2806669**	Price
17/64	.2656	5/16	1.339	3.110	**AX2806671**	Price
9/32	.2812	5/16	1.614	3.110	**AX2806676**	Price
19/64	.2969	5/16	1.614	3.110	**AX2806681**	Price
5/16	.3125	5/16	1.614	3.110	**AX2806686**	Price
21/64	.3281	3/8	1.850	3.504	**AX2806691**	Price
Q	.3320	3/8	1.850	3.504	**AX2806693**	Price
11/32	.3438	3/8	1.850	3.504	**AX2806697**	Price
23/64	.3594	3/8	1.850	3.504	**AX2806702**	Price
3/8	.3750	3/8	1.850	3.504	**AX2806708**	Price
25/64	.3906	7/16	1.850	3.504	**AX2806713**	Price
13/32	.4062	7/16	2.165	4.016	**AX2806718**	Price
27/64	.4219	7/16	2.165	4.016	**AX2806723**	Price
7/16	.4375	7/16	2.165	4.016	**AX2806728**	Price
15/32	.4688	1/2	2.165	4.016	**AX2806737**	Price
31/64	.4844	1/2	2.362	4.213	**AX2806740**	Price
1/2	.5000	1/2	2.362	4.213	**AX2806742**	Price
33/64	.5156	9/16	2.362	4.213	**AX2806747**	Price
17/32	.5312	9/16	2.362	4.213	**AX2806748**	Price
35/64	.5469	9/16	2.362	4.213	**AX2806752**	Price
9/16	.5625	9/16	2.559	4.528	**AX2806754**	Price
19/32	.5938	5/8	2.559	4.528	**AX2806758**	Price
5/8	.6250	5/8	2.559	4.528	**AX2806762**	Price
21/32	.6562	11/16	2.874	4.840	**AX2806767**	Price
11/16	.6875	11/16	2.874	4.840	**AX2806769**	Price
3/4	.7500	3/4	3.110	5.160	**AX2806773**	Price

HY-PRO® CARB Drill



Solid Carbide • 3xD Length • TiAlN Coated

- High performance carbide
- Recommended for cast iron, carbon steels, alloy steels, die steels and hardened steels up to 35 HrC
- OSG List #HP243

Size (in.)	Decimal Equiv.	Shank Dia. (mm)	Flute Length (mm)	OAL (mm)	Order No.	Price
1/8	.1248	6mm	20mm	62mm	**TP45HP2431248**	Price
3/16	.1874	6mm	28mm	66mm	**TP45HP2431874**	Price
7/32	.2189	6mm	28mm	66mm	**TP45HP2432189**	Price
1/4, E	.2500	8mm	34mm	79mm	**TP45HP2432500**	Price
9/32	.2811	8mm	41mm	79mm	**TP45HP2432811**	Price
5/16	.3126	8mm	41mm	79mm	**TP45HP2433126**	Price
11/32	.3437	10mm	47mm	89mm	**TP45HP2433437**	Price
3/8	.3748	10mm	47mm	89mm	**TP45HP2433748**	Price

Size (in.)	Decimal Equiv.	Shank Dia. (mm)	Flute Length (mm)	OAL (mm)	Order No.	Price
13/32	.4063	12mm	55mm	102mm	**TP45HP2434063**	Price
7/16	.4374	12mm	55mm	102mm	**TP45HP2434374**	Price
1/2	.5000	14mm	60mm	107mm	**TP45HP2435000**	Price
17/32	.5311	14mm	60mm	107mm	**TP45HP2435311**	Price
9/16	.5626	16mm	65mm	115mm	**TP45HP2435626**	Price
5/8	.6248	16mm	65mm	115mm	**TP45HP2436248**	Price
21/32	.6563	18mm	73mm	123mm	**TP45HP2436563**	Price
3/4	.7500	20mm	79mm	131mm	**TP45HP2437500**	Price

RAPIDKUT® 4xD Solid Carbide Drills

140° Point • AlTiN Coated

- Advanced 140° self-centering drill point provides the fastest penetration and ultimate longevity
- Premium C-2 grade sub-micron grain carbide with 10% cobalt extends tool life
- 25° Helix
- Right hand spiral / right hand cut
- Diameter tolerance: +.0000 / -.0005”



Type - Fractional Size					
Size	Decimal Equiv.	Shank	OAL	Order No.	Price
3/64	.0469	1/8	1-1/2	**AX7210000**	Price
1/16	.0625	1/8	1-1/2	**AX7210004**	Price
5/64	.0781	1/8	2	**AX7210009**	Price
3/32	.0938	1/8	2	**AX7210015**	Price
7/64	.1094	1/8	2	**AX7210022**	Price
1/8	.1250	1/8	2	**AX7210024**	Price
9/64	.1406	3/16	2	**AX7210028**	Price
5/32	.1562	3/16	2-1/2	**AX7210030**	Price
11/64	.1719	3/16	2-1/2	**AX7210033**	Price
3/16	.1875	3/16	2-1/2	**AX7210035**	Price
13/64	.2031	1/4	2-1/2	**AX7210039**	Price
7/32	.2188	1/4	2-1/2	**AX7210042**	Price
15/64	.2344	1/4	2-1/2	**AX7210043**	Price
1/4, E	.2500	1/4	2-1/2	**AX7210044**	Price
17/64	.2656	5/16	3	**AX7210046**	Price
9/32, K	.2812	5/16	3	**AX7210048**	Price
19/64	.2969	5/16	3	**AX7210049**	Price
5/16	.3125	5/16	3	**AX7210050**	Price
21/64	.3281	3/8	3	**AX7210051**	Price
11/32	.3438	3/8	3	**AX7210053**	Price
23/64	.3594	3/8	3	**AX7210054**	Price
3/8	.3750	3/8	3	**AX7210056**	Price
25/64	.3906	7/16	4	**AX7210057**	Price
13/32	.4063	7/16	4	**AX7210058**	Price
27/64	.4219	7/16	4	**AX7210059**	Price
7/16	.4375	7/16	4	**AX7210060**	Price
29/64	.4531	1/2	4	**AX7210061**	Price
31/64	.4844	1/2	4	**AX7210062**	Price
1/2	.5000	1/2	4	**AX7210063**	Price
33/64	.5156	9/16	4	**AX7210064**	Price
17/32	.5312	9/16	4	**AX7210065**	Price
35/64	.5469	9/16	4	**AX7210066**	Price
9/16	.5625	9/16	4	**AX7210067**	Price
37/64	.5781	5/8	5	**AX7210068**	Price
19/32	.5938	5/8	5	**AX7210069**	Price
5/8	.6250	5/8	5	**AX7210070**	Price
21/32	.6562	3/4	5	**AX7210071**	Price
11/16	.6875	3/4	5	**AX7210072**	Price
3/4	.7500	3/4	5	**AX7210073**	Price

Type - Letter Size					
Size	Decimal Equiv.	Shank	OAL	Order No.	Price
I	.2717	5/16	3	**AX7210047**	Price
U	.3680	3/8	3	**AX7210055**	Price
Q	.3320	3/8	3	**AX7210052**	Price
F	.2570	5/16	3	**AX7210045**	Price

Type - Metric Size					
Size	Decimal Equiv.	Shank	OAL	Order No.	Price
1.5mm	.0591	3mm	38mm	**AX7220000**	Price
2mm	.0787	3mm	38mm	**AX7220001**	Price
2.5mm	.0984	3mm	38mm	**AX7220002**	Price
3mm	.1181	3mm	38mm	**AX7220003**	Price
3.5mm	.1378	4mm	50mm	**AX7220004**	Price
4mm	.1575	4mm	50mm	**AX7220005**	Price
4.5mm	.1772	5mm	50mm	**AX7220006**	Price
5mm	.1969	5mm	50mm	**AX7220007**	Price
6mm	.2362	6mm	63mm	**AX7220008**	Price
6.5mm	.2559	8mm	75mm	**AX7220009**	Price
7mm	.2756	8mm	75mm	**AX7220010**	Price
7.5mm	.2953	8mm	75mm	**AX7220011**	Price
8mm	.3150	8mm	75mm	**AX7220012**	Price
8.5mm	.3346	10mm	100mm	**AX7220013**	Price
9mm	.3543	10mm	100mm	**AX7220014**	Price
9.5mm	.3740	10mm	100mm	**AX7220015**	Price
10mm	.3937	10mm	100mm	**AX7220016**	Price
10.5mm	.4134	12mm	100mm	**AX7220017**	Price
11mm	.4331	12mm	100mm	**AX7220018**	Price
11.5mm	.4528	12mm	100mm	**AX7220019**	Price
12mm	.4724	12mm	100mm	**AX7220020**	Price
12.5mm	.4921	14mm	100mm	**AX7220021**	Price
13mm	.5118	14mm	100mm	**AX7220022**	Price
13.5mm	.5315	14mm	100mm	**AX7220023**	Price

Type - Wire Gage Size					
Size	Decimal Equiv.	Shank	OAL	Order No.	Price
3	.2130	1/4	2-1/2	**AX7210041**	Price
5	.2055	1/4	2-1/2	**AX7210040**	Price
7	.2010	1/4	2-1/2	**AX7210038**	Price
10	.1935	1/4	2-1/2	**AX7210037**	Price
11	.1915	1/4	2-1/2	**AX7210036**	Price
16	.1772	3/16	2-1/2	**AX7210034**	Price
20	.1610	3/16	2-1/2	**AX7210032**	Price
21	.1590	3/16	2-1/2	**AX7210031**	Price
25	.1496	3/16	2-1/2	**AX7210029**	Price
28	.1406	3/16	2	**AX7210027**	Price
29	.1360	3/16	2	**AX7210026**	Price
30	.1285	3/16	2	**AX7210025**	Price
31	.1200	1/8	2	**AX7210023**	Price
36	.1065	1/8	2	**AX7210021**	Price
37	.1040	1/8	2	**AX7210020**	Price
38	.1015	1/8	2	**AX7210019**	Price
39	.0995	1/8	2	**AX7210018**	Price
40	.0980	1/8	2	**AX7210017**	Price
41	.0960	1/8	2	**AX7210016**	Price
42	.0935	1/8	2	**AX7210014**	Price
43	.0890	1/8	2	**AX7210013**	Price
44	.0860	1/8	2	**AX7210012**	Price
45	.0820	1/8	2	**AX7210011**	Price
46	.0810	1/8	2	**AX7210010**	Price
48	.0760	1/8	2	**AX7210008**	Price
49	.0728	1/8	2	**AX7210007**	Price
50	.0700	1/8	2	**AX7210006**	Price
52	.0635	1/8	1-1/2	**AX7210005**	Price
53	.0595	1/8	1-1/2	**AX7210003**	Price
54	.0551	1/8	1-1/2	**AX7210002**	Price
55	.0520	1/8	1-1/2	**AX7210001**	Price

Twister® Micro XD Drills

5xD • Solid Carbide

- Designed for high performance drilling in a broad range of materials
- Web thinned point helps reduce cutting forces during the drilling operation
- 0.8mm and above have honed cutting edges on the point which increases the strength of the cutting edges
- Post coat polishing to improve chip evacuation
- Altima® coated
- M A Ford List #MXDSR



Drill Dia.	Decimal Equiv.	Shank Size	Flute Length	OAL	Order No.	Price
0.55mm	.0217	3mm	4mm	57mm	**AX2804696**	Price
0.5mm	.0197	3mm	4mm	57mm	**AX2804694**	Price
0.65mm	.0256	3mm	5mm	57mm	**AX2804700**	Price
0.6mm	.0236	3mm	5mm	57mm	**AX2804698**	Price
0.75mm	.0295	3mm	6mm	57mm	**AX2804704**	Price
0.7mm	.0276	3mm	5mm	57mm	**AX2804702**	Price
0.85mm	.0335	3mm	7mm	57mm	**AX2804708**	Price
0.8mm	.0315	3mm	6mm	57mm	**AX2804706**	Price
0.95mm	.0374	3mm	7mm	57mm	**AX2804712**	Price
0.9mm	.0354	3mm	7mm	57mm	**AX2804710**	Price
1.0mm	.0394	3mm	8mm	57mm	**AX2804714**	Price
1.05mm	.0413	3mm	8mm	57mm	**AX2804716**	Price
1.15mm	.0453	3mm	9mm	57mm	**AX2804720**	Price
1.1mm	.0433	3mm	8mm	57mm	**AX2804718**	Price
1.25mm	.0492	3mm	9mm	57mm	**AX2804724**	Price
1.2mm	.0472	3mm	9mm	57mm	**AX2804722**	Price
1.35mm	.0531	3mm	10mm	57mm	**AX2804728**	Price
1.3mm	.0512	3mm	10mm	57mm	**AX2804726**	Price
1.45mm	.0571	3mm	11mm	57mm	**AX2804732**	Price
1.4mm	.0551	3mm	10mm	57mm	**AX2804730**	Price
1.55mm	.0610	3mm	12mm	57mm	**AX2804736**	Price
1.5mm	.0591	3mm	11mm	57mm	**AX2804734**	Price
1.65mm	.0650	3mm	12mm	57mm	**AX2804740**	Price
1.6mm	.0630	3mm	12mm	57mm	**AX2804738**	Price
1.75mm	.0689	3mm	13mm	57mm	**AX2804744**	Price
1.7mm	.0669	3mm	13mm	57mm	**AX2804742**	Price
1.85mm	.0725	3mm	14mm	57mm	**AX2804748**	Price
1.8mm	.0709	3mm	13mm	57mm	**AX2804746**	Price
1.95mm	.0768	3mm	14mm	57mm	**AX2804752**	Price
1.9mm	.0748	3mm	14mm	57mm	**AX2804750**	Price
2.0mm	.0787	3mm	15mm	57mm	**AX2804754**	Price
2.05mm	.0807	3mm	15mm	57mm	**AX2804756**	Price
2.15mm	.0846	3mm	16mm	57mm	**AX2804760**	Price
2.1mm	.0827	3mm	15mm	57mm	**AX2804758**	Price
2.25mm	.0886	3mm	17mm	57mm	**AX2804764**	Price
2.2mm	.0866	3mm	16mm	57mm	**AX2804762**	Price
2.35mm	.0925	3mm	17mm	57mm	**AX2804768**	Price
2.3mm	.0906	3mm	17mm	57mm	**AX2804766**	Price
2.45mm	.0965	3mm	18mm	57mm	**AX2804772**	Price
2.4mm	.0945	3mm	18mm	57mm	**AX2804770**	Price
2.55mm	.1004	3mm	19mm	57mm	**AX2804776**	Price
2.5mm	.0984	3mm	18mm	57mm	**AX2804774**	Price
2.65mm	.1043	3mm	19mm	57mm	**AX2804780**	Price
2.6mm	.1024	3mm	19mm	57mm	**AX2804778**	Price
2.75mm	.1083	3mm	20mm	57mm	**AX2804784**	Price
2.7mm	.1063	3mm	20mm	57mm	**AX2804782**	Price
2.85mm	.1122	3mm	21mm	57mm	**AX2804788**	Price
2.8mm	.1102	3mm	20mm	57mm	**AX2804786**	Price
2.95mm	.1161	3mm	21mm	57mm	**AX2804792**	Price
2.9mm	.1142	3mm	21mm	57mm	**AX2804790**	Price

RAPIDKUT 5xD High Performance Solid Carbide Drills

- For use in a wide variety of materials including carbon steel, alloy steel, stainless steel, hardened steel, cast iron, aluminum alloys, titanium and others
- 140° Point and 30° helix high performance geometry allows for high penetration rates
- These high penetration drills provide accurate hole sizing as well as near burnished holes
- TiAlN coated



- Fractional					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
1/4, E	1/4	2.08	3.58	**AX8021005**	Price
17/64	5/16	2.08	3.58	**AX8021010**	Price
9/32, K	5/16	2.08	3.58	**AX8021015**	Price
19/64	5/16	2.08	3.58	**AX8021020**	Price
5/16	5/16	2.08	3.58	**AX8021025**	Price
21/64	3/8	2.40	4.05	**AX8021030**	Price
11/32	3/8	2.40	4.05	**AX8021035**	Price
23/64	3/8	2.40	4.05	**AX8021040**	Price
3/8	3/8	2.40	4.05	**AX8021045**	Price
25/64	7/16	2.80	4.05	**AX8021050**	Price
13/32	7/16	2.80	4.64	**AX8021055**	Price
27/64	7/16	2.80	4.64	**AX8021060**	Price
7/16	7/16	2.80	4.64	**AX8021065**	Price
29/64	1/2	3.03	4-7/8	**AX8021070**	Price
15/32	1/2	3.03	4-7/8	**AX8021075**	Price
31/64	1/2	3.03	4-7/8	**AX8021080**	Price
1/2	1/2	3.03	4-7/8	**AX8021085**	Price
33/64	9/16	3.03	4-7/8	**AX8021090**	Price
17/32	9/16	3.03	4-7/8	**AX8021095**	Price
35/64	9/16	3.03	4-7/8	**AX8021100**	Price
9/16	9/16	3.03	4-7/8	**AX8021105**	Price
37/64	5/8	3-17/64	5.23	**AX8021110**	Price
19/32	5/8	3-17/64	5.23	**AX8021115**	Price
39/64	5/8	3-17/64	5.23	**AX8021120**	Price
5/8	5/8	3-17/64	5.23	**AX8021125**	Price
41/64	11/16	3-21/32	5-5/8	**AX8021130**	Price
21/32	11/16	3-21/32	5-5/8	**AX8021135**	Price
43/64	11/16	3-21/32	5-5/8	**AX8021140**	Price
11/16	11/16	3-21/32	5-5/8	**AX8021145**	Price
45/64	3/4	3-31/64	6	**AX8021150**	Price
23/32	3/4	3-31/64	6	**AX8021155**	Price
47/64	3/4	3-31/64	6	**AX8021160**	Price
3/4	3/4	3-31/64	6	**AX8021165**	Price

- Metric					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
3mm	6mm	28mm	66mm	**AX8031005**	Price
3.1mm	6mm	28mm	66mm	**AX8031010**	Price
3.2mm	6mm	28mm	66mm	**AX8031012**	Price
3.3mm	6mm	28mm	66mm	**AX8031015**	Price
3.4mm	6mm	28mm	66mm	**AX8031017**	Price
3.5mm	6mm	28mm	66mm	**AX8031020**	Price
3.6mm	6mm	28mm	66mm	**AX8031022**	Price
3.7mm	6mm	28mm	66mm	**AX8031025**	Price
3.8mm	6mm	36mm	74mm	**AX8031030**	Price
3.9mm	6mm	28mm	66mm	**AX8031032**	Price
4mm	6mm	36mm	74mm	**AX8031035**	Price
4.1mm	6mm	36mm	74mm	**AX8031037**	Price
4.2mm	6mm	36mm	74mm	**AX8031040**	Price
4.3mm	6mm	36mm	74mm	**AX8031042**	Price
4.4mm	6mm	36mm	74mm	**AX8031044**	Price
4.5mm	6mm	36mm	74mm	**AX8031045**	Price
4.6mm	6mm	36mm	74mm	**AX8031047**	Price
4.7mm	6mm	44mm	76mm	**AX8031049**	Price
4.8mm	6mm	44mm	82mm	**AX8031050**	Price
5mm	6mm	44mm	82mm	**AX8031055**	Price
5.1mm	6mm	44mm	82mm	**AX8031060**	Price
5.2mm	6mm	44mm	82mm	**AX8031065**	Price
5.3mm	6mm	44mm	82mm	**AX8031067**	Price
5.5mm	6mm	44mm	82mm	**AX8031070**	Price
5.8mm	6mm	44mm	82mm	**AX8031075**	Price
6mm	6mm	44mm	82mm	**AX8031080**	Price
6.1mm	8mm	53mm	91mm	**AX8031082**	Price
6.3mm	8mm	53mm	91mm	**AX8031085**	Price

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RAPIDKUT 5xD High Performance Solid Carbide Drills *(continued from previous page)*



- Metric					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
6.4mm	8mm	53mm	91mm	**AX8031087**	Price
6.5mm	8mm	53mm	91mm	**AX8031090**	Price
6.6mm	8mm	53mm	91mm	**AX8031092**	Price
6.8mm	8mm	53mm	91mm	**AX8031095**	Price
6.9mm	8mm	53mm	91mm	**AX8031097**	Price
7mm	8mm	53mm	91mm	**AX8031100**	Price
7.3mm	8mm	53mm	91mm	**AX8031102**	Price
7.5mm	8mm	53mm	91mm	**AX8031105**	Price
7.6mm	8mm	53mm	91mm	**AX8031107**	Price
7.8mm	8mm	53mm	91mm	**AX8031110**	Price
8mm	8mm	53mm	91mm	**AX8031115**	Price
8.1mm	10mm	61mm	103mm	**AX8031117**	Price
8.2mm	10mm	61mm	103mm	**AX8031118**	Price
8.4mm	10mm	61mm	103mm	**AX8031119**	Price
8.5mm	10mm	61mm	103mm	**AX8031120**	Price
8.8mm	10mm	61mm	103mm	**AX8031125**	Price
9mm	10mm	61mm	103mm	**AX8031130**	Price
9.2mm	10mm	61mm	103mm	**AX8031135**	Price
9.5mm	10mm	61mm	103mm	**AX8031140**	Price
9.8mm	10mm	61mm	103mm	**AX8031145**	Price
10mm	10mm	61mm	103mm	**AX8031150**	Price
10.2mm	12mm	71mm	118mm	**AX8031155**	Price
10.3mm	12mm	71mm	118mm	**AX8031157**	Price

- Metric					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
10.5mm	12mm	71mm	118mm	**AX8031160**	Price
10.7mm	12mm	71mm	118mm	**AX8031162**	Price
10.8mm	12mm	71mm	118mm	**AX8031165**	Price
11mm	12mm	71mm	118mm	**AX8031170**	Price
11.5mm	12mm	71mm	118mm	**AX8031175**	Price
11.8mm	12mm	71mm	118mm	**AX8031180**	Price
12mm	12mm	71mm	118mm	**AX8031185**	Price
12.3mm	14mm	77mm	124mm	**AX8031190**	Price
12.5mm	14mm	77mm	124mm	**AX8031195**	Price
12.8mm	14mm	77mm	124mm	**AX8031200**	Price
13mm	14mm	77mm	124mm	**AX8031205**	Price
13.5mm	14mm	77mm	124mm	**AX8031210**	Price
14mm	14mm	77mm	124mm	**AX8031215**	Price
14.5mm	16mm	83mm	133mm	**AX8031220**	Price
15mm	16mm	83mm	133mm	**AX8031225**	Price
15.5mm	16mm	83mm	133mm	**AX8031230**	Price
16mm	16mm	83mm	133mm	**AX8031235**	Price
16.5mm	18mm	93mm	143mm	**AX8031240**	Price
17mm	18mm	93mm	143mm	**AX8031245**	Price
17.5mm	18mm	93mm	143mm	**AX8031250**	Price
18mm	18mm	93mm	143mm	**AX8031255**	Price
20mm	20mm	101mm	153mm	**AX8031260**	Price

Solid Carbide High Performance Drills

5xD



- 140° Self-centering drill point
- 30° Helix
- For use in steels, cast iron, austenitic stainless steel, and titanium
- AlTiN coated
- M A Ford Series #HPDSR

- Fractional Size					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	4mm	28mm	66mm	**AX2921973**	Price
5/32	4mm	36mm	74mm	**AX2921976**	Price
3/16	6mm	44mm	82mm	**AX2921978**	Price
13/64	6mm	44mm	82mm	**AX2921979**	Price
7/32	6mm	44mm	82mm	**AX2921980**	Price
1/4	8mm	53mm	91mm	**AX2921981**	Price
9/32	8mm	53mm	91mm	**AX2921983**	Price
5/16	8mm	53mm	91mm	**AX2921984**	Price
3/8	10mm	61mm	103mm	**AX2921985**	Price
7/16	12mm	71mm	118mm	**AX2921986**	Price
1/2	14mm	77mm	124mm	**AX2921987**	Price
5/8	16mm	83mm	133mm	**AX2921988**	Price

- Metric Size					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
3mm	3mm	28mm	66mm	**AX2921840**	Price
3.1mm	4mm	28mm	66mm	**AX2921841**	Price
3.2mm	4mm	28mm	66mm	**AX2921842**	Price
3.3mm	4mm	28mm	66mm	**AX2921843**	Price
3.4mm	4mm	28mm	66mm	**AX2921844**	Price
3.5mm	4mm	28mm	66mm	**AX2921845**	Price
3.6mm	4mm	28mm	66mm	**AX2921846**	Price
3.7mm	4mm	28mm	66mm	**AX2921847**	Price
3.8mm	4mm	36mm	74mm	**AX2921848**	Price
3.9mm	4mm	36mm	74mm	**AX2921849**	Price
4mm	4mm	36mm	74mm	**AX2921850**	Price
4.1mm	6mm	36mm	74mm	**AX2921851**	Price
4.2mm	6mm	36mm	74mm	**AX2921852**	Price
4.3mm	6mm	36mm	74mm	**AX2921853**	Price
4.4mm	6mm	36mm	74mm	**AX2921854**	Price
4.5mm	6mm	36mm	74mm	**AX2921855**	Price
4.6mm	6mm	36mm	74mm	**AX2921856**	Price
4.7mm	6mm	36mm	74mm	**AX2921857**	Price
4.8mm	6mm	44mm	82mm	**AX2921858**	Price
5mm	6mm	44mm	82mm	**AX2921860**	Price
5.1mm	6mm	44mm	82mm	**AX2921861**	Price
5.2mm	6mm	44mm	82mm	**AX2921862**	Price
5.3mm	6mm	44mm	82mm	**AX2921863**	Price
5.5mm	6mm	44mm	82mm	**AX2921865**	Price
6mm	6mm	44mm	82mm	**AX2921870**	Price
6.1mm	8mm	53mm	91mm	**AX2921871**	Price
6.3mm	8mm	53mm	91mm	**AX2921873**	Price

- Metric Size					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
6.4mm	8mm	53mm	91mm	**AX2921874**	Price
6.5mm	8mm	53mm	91mm	**AX2921875**	Price
6.6mm	8mm	53mm	91mm	**AX2921876**	Price
6.8mm	8mm	53mm	91mm	**AX2921878**	Price
6.9mm	8mm	53mm	91mm	**AX2921879**	Price
7mm	8mm	53mm	91mm	**AX2921880**	Price
7.1mm	8mm	53mm	91mm	**AX2921881**	Price
7.3mm	8mm	53mm	91mm	**AX2921883**	Price
7.5mm	8mm	53mm	91mm	**AX2921885**	Price
7.8mm	8mm	53mm	91mm	**AX2921888**	Price
8mm	8mm	53mm	91mm	**AX2921890**	Price
8.1mm	10mm	61mm	103mm	**AX2921891**	Price
8.2mm	10mm	61mm	103mm	**AX2921892**	Price
8.4mm	10mm	61mm	103mm	**AX2921894**	Price
8.5mm	10mm	61mm	103mm	**AX2921895**	Price
8.8mm	10mm	61mm	103mm	**AX2921898**	Price
9mm	10mm	61mm	103mm	**AX2921900**	Price
9.2mm	10mm	61mm	103mm	**AX2921902**	Price
9.5mm	10mm	61mm	103mm	**AX2921905**	Price
9.8mm	10mm	61mm	103mm	**AX2921908**	Price
10mm	10mm	61mm	103mm	**AX2921910**	Price
10.1mm	12mm	71mm	118mm	**AX2921911**	Price
10.2mm	12mm	71mm	118mm	**AX2921912**	Price
10.3mm	12mm	71mm	118mm	**AX2921913**	Price
10.5mm	12mm	71mm	118mm	**AX2921915**	Price
10.7mm	12mm	71mm	118mm	**AX2921917**	Price
10.8mm	12mm	71mm	118mm	**AX2921918**	Price
11mm	12mm	71mm	118mm	**AX2921920**	Price
11.5mm	12mm	71mm	118mm	**AX2921925**	Price
12mm	12mm	71mm	118mm	**AX2921930**	Price
12.3mm	14mm	77mm	124mm	**AX2921991**	Price
12.5mm	14mm	77mm	124mm	**AX2921933**	Price
13mm	14mm	77mm	124mm	**AX2921939**	Price
13.5mm	14mm	77mm	124mm	**AX2921940**	Price
13.7mm	14mm	77mm	124mm	**AX2922000**	Price
13.9mm	14mm	77mm	124mm	**AX2922001**	Price
14mm	14mm	77mm	124mm	**AX2921950**	Price
14.1mm	16mm	83mm	133mm	**AX2922002**	Price
14.2mm	16mm	83mm	133mm	**AX2922003**	Price
14.3mm	16mm	83mm	133mm	**AX2922004**	Price
14.4mm	16mm	83mm	133mm	**AX2922005**	Price
14.5mm	16mm	83mm	133mm	**AX2921955**	Price
14.6mm	16mm	83mm	133mm	**AX2922006**	Price
14.7mm	16mm	83mm	133mm	**AX2922007**	Price
14.9mm	16mm	83mm	133mm	**AX2922008**	Price
15mm	16mm	83mm	133mm	**AX2921963**	Price
15.1mm	16mm	83mm	133mm	**AX2922009**	Price
15.2mm	16mm	83mm	133mm	**AX2922010**	Price
15.3mm	16mm	83mm	133mm	**AX2922011**	Price
15.4mm	16mm	83mm	133mm	**AX2922012**	Price
15.6mm	16mm	83mm	133mm	**AX2922014**	Price
15.7mm	16mm	83mm	133mm	**AX2922015**	Price
15.9mm	16mm	83mm	133mm	**AX2922016**	Price
16mm	16mm	83mm	133mm	**AX2921970**	Price

Solid Carbide



High Performance Jobber Drills

5xD Length • 142° Point • ALtima® Coated

- ALtima® (AlTiN) coated for extended tool life
- Drills can be reconditioned and recoated
- 30° Helix angle
- Recommended for a broad cross section of materials at increased feed rates
- M.A. Ford List #2XDSR

Size (in./mm)	Flute Length (in./mm)	OAL (in./mm)	Order No.	Price
#31	1.125	2-1/2	**AX2702348**	Price
3/64	3/4	1-1/2	**AX2722241**	Price
1/16	3/4	1-1/2	**AX2722256**	Price
3/32	1	2	**AX2722291**	Price
1/8	1.125	2-1/2	**AX2702350**	Price
5/32	1.260	2-3/4	**AX2702370**	Price
11/64	1.500	3.150	**AX2702376**	Price
3/16	1.500	3.150	**AX2702382**	Price
13/64	1.580	3.230	**AX2702392**	Price
7/32	1.580	3.230	**AX2702402**	Price
1/4, E	1.740	3-1/4	**AX2702426**	Price
17/64	1.890	3.580	**AX2702436**	Price
9/32, K	1.890	3.580	**AX2702444**	Price
5/16	1.890	3.580	**AX2702460**	Price
11/32	2.170	4.060	**AX2702492**	Price
3/8	2.170	4.060	**AX2702510**	Price
13/32	2.360	4.720	**AX2702522**	Price
27/64	2.360	4.720	**AX2702526**	Price
7/16	2.600	4.720	**AX2702530**	Price
1/2	2.830	4.750	**AX2702548**	Price
1mm	12mm	34mm	**AX2728021**	Price
1.5mm	18mm	40mm	**AX2728036**	Price
2mm	24mm	49mm	**AX2728056**	Price
2.5mm	30mm	57mm	**AX2728071**	Price
3mm	24mm	63mm	**AX2702346**	Price
4mm	32mm	69mm	**AX2702372**	Price
5mm	38mm	80mm	**AX2702388**	Price
6mm	40mm	82mm	**AX2702414**	Price
7mm	48mm	91mm	**AX2702442**	Price
8mm	48mm	91mm	**AX2702480**	Price
9mm	55mm	103mm	**AX2702498**	Price
10mm	55mm	103mm	**AX2702518**	Price
11mm	60mm	120mm	**AX2702528**	Price
12mm	66mm	120mm	**AX2702540**	Price

3 Flute Solid Carbide High Performance Drills



5XD Length • 150° Point • Uncoated

- Recommended for increased speeds and feeds when drilling aluminum, cast iron and other easy to machine materials
- Greater hole dimensional accuracy at higher production rates
- Reduces drill deflection compared to HSS, cobalt and other carbide drills
- M.A. Ford Series #229

Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	3/4	1-1/2	**AX3522900**	Price
3/32	1	2	**AX3522902**	Price
1/8	1-1/4	2-1/4	**AX3522906**	Price
9/64, #28	1-3/8	2-1/2	**AX3522908**	Price
5/32	1-3/8	2-1/2	**AX3522909**	Price
3/16	1-5/8	2-3/4	**AX3522912**	Price
7/32	1-3/4	3	**AX3522913**	Price
1/4, E	2	3-1/4	**AX3522914**	Price
17/64	2-1/8	3-1/2	**AX3522916**	Price
9/32, K	2-1/8	3-1/2	**AX3522917**	Price
5/16	2-3/8	3-3/4	**AX3522918**	Price
21/64	2-1/2	4	**AX3522919**	Price
3/8	2-3/4	4-1/4	**AX3522920**	Price
25/64	2-7/8	4-1/2	**AX3522921**	Price
13/32	2-7/8	4-1/2	**AX3522922**	Price
27/64	2-7/8	4-1/2	**AX3522923**	Price
7/16	2-7/8	4-1/2	**AX3522924**	Price
31/64	3	4-3/4	**AX3522925**	Price
1/2	3	4-3/4	**AX3522926**	Price
33/64	3-1/4	5	**AX3522927**	Price
17/32	3-1/4	5	**AX3522928**	Price
35/64	3-1/4	5	**AX3522929**	Price
9/16	3-1/4	5	**AX3522930**	Price
5/8	3-1/2	5-1/4	**AX3522931**	Price
21/32	3-5/8	5-1/2	**AX3522932**	Price
11/16	3-5/8	5-1/2	**AX3522933**	Price
3/4	3-7/8	5-3/4	**AX3522934**	Price
#13	1-5/8	2-3/4	**AX3522911**	Price
#16	1-5/8	2-3/4	**AX3522910**	Price
#29	1-3/8	2-1/2	**AX3522907**	Price
#30	1-1/4	2-1/4	**AX3522935**	Price
#31	1-1/4	2-1/4	**AX3522905**	Price
#40	1	2	**AX3522904**	Price
#41	1	2	**AX3522903**	Price
#43	1	2	**AX3522901**	Price
F	2	3-1/4	**AX3522915**	Price
2.5mm	20.5mm	43mm	**AX3522951**	Price

Wire gage, letter and metric sizes also available.

DORMER ForceX High Performance Carbide Drills



5xD Length • 140° Point • TiAlN Coated

- Multi-application solid carbide drill, excellent for drilling a wide range of materials, including steel, stainless steel, cast iron & more
- 140º Point provides excellent centering capabilities
- Common shanks to cut collet cost
- Manufactured to DIN 6537
- Dormer List #R454

Type - Fractional Size					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	6mm	28mm	66mm	**PT410624029**	Price
9/64, #28	6mm	28mm	66mm	**PT410624401**	Price
5/32	6mm	36mm	74mm	**PT410624340**	Price
11/64	6mm	36mm	74mm	**PT410624050**	Price
3/16	6mm	44mm	82mm	**PT410624210**	Price
13/64	6mm	44mm	82mm	**PT410624074**	Price
7/32	6mm	44mm	82mm	**PT410624371**	Price
15/64	6mm	44mm	82mm	**PT410624098**	Price
1/4, E	8mm	53mm	91mm	**PT410624012**	Price
17/64	8mm	53mm	91mm	**PT410624111**	Price
9/32, K	8mm	53mm	91mm	**PT410624395**	Price
19/64	8mm	53mm	91mm	**PT410624135**	Price
5/16	8mm	53mm	91mm	**PT410624333**	Price
21/64	10mm	61mm	103mm	**PT410624159**	Price
11/32	10mm	61mm	103mm	**PT410624043**	Price
23/64	10mm	61mm	103mm	**PT410624173**	Price
3/8	10mm	61mm	103mm	**PT410624234**	Price
13/32	12mm	70mm	118mm	**PT410624067**	Price
27/64	12mm	70mm	118mm	**PT410624197**	Price
7/16	12mm	70mm	118mm	**PT410624364**	Price
29/64	12mm	70mm	118mm	**PT410624203**	Price

Type - Fractional Size					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
15/32	12mm	70mm	118mm	**PT410624081**	Price
31/64	14mm	76mm	124mm	**PT410624241**	Price
1/2	14mm	76mm	124mm	**PT410624005**	Price
17/32	14mm	76mm	124mm	**PT410624104**	Price
9/16	16mm	82mm	133mm	**PT410624388**	Price
5/8	16mm	82mm	133mm	**PT410624357**	Price
11/16	18mm	91mm	143mm	**PT410624036**	Price
3/4	20mm	99mm	153mm	**PT410624227**	Price

Type - Metric Size					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
6mm	6mm	44mm	82mm	**PT410614549**	Price
6.5mm	8mm	53mm	91mm	**PT410614556**	Price
7mm	8mm	53mm	91mm	**PT410614594**	Price
8mm	8mm	53mm	91mm	**PT410614624**	Price
8.5mm	10mm	61mm	103mm	**PT410614631**	Price
9mm	10mm	61mm	103mm	**PT410614662**	Price
9.5mm	10mm	61mm	103mm	**PT410614686**	Price
10mm	10mm	61mm	103mm	**PT410614242**	Price
11mm	12mm	70mm	118mm	**PT410614297**	Price
11.8mm	12mm	70mm	118mm	**PT410625675**	Price
12mm	12mm	70mm	118mm	**PT410614327**	Price
12.5mm	14mm	76mm	124mm	**PT410614341**	Price
14mm	16mm	76mm	124mm	**PT410614372**	Price

Cyclone™ XD Solid Carbide High Performance Drills



5xD • Altima® Plus Coated

- 30° Helix
- 140° Drill Point
- Designed for drilling in a broad range of materials
- M.A. Ford List #CXDSR

Drill Dia.	Decimal Equiv.	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
#31	.1200	1/8	1.102	2.600	**AX2806468**	Price
1/8	.1250	1/8	1.102	2.600	**AX2806470**	Price
#30	.1285	5/32	1.102	2.600	**AX2806472**	Price
#29	.1360	5/32	1.102	2.600	**AX2806475**	Price
9/64, #28	.1406	5/32	1.102	2.600	**AX2806477**	Price
#24	.1520	5/32	1.417	2.910	**AX2806481**	Price
5/32	.1562	5/32	1.417	2.910	**AX2806483**	Price
#21	.1590	3/16	1.417	2.910	**AX2806485**	Price
11/64	.1719	3/16	1.417	2.910	**AX2806489**	Price
3/16	.1875	3/16	1.732	3.230	**AX2806494**	Price
13/64	.2031	1/4	1.732	3.230	**AX2806499**	Price
7/32	.2187	1/4	1.732	3.230	**AX2806504**	Price
#2	.2210	1/4	1.732	3.230	**AX2806505**	Price
15/64	.2344	1/4	1.732	3.230	**AX2806509**	Price
C	.2420	1/4	2.087	3.580	**AX2806512**	Price
D	.2460	1/4	2.087	3.580	**AX2806514**	Price
1/4, E	.2500	1/4	2.087	3.580	**AX2806516**	Price
F	.2570	5/16	2.087	3.580	**AX2806519**	Price
G	.2610	5/16	2.087	3.580	**AX2806521**	Price
17/64	.2656	5/16	2.087	3.580	**AX2806523**	Price
9/32, K	.2812	5/16	2.087	3.580	**AX2806528**	Price

Drill Dia.	Decimal Equiv.	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
19/64	.2969	5/16	2.087	3.580	**AX2806533**	Price
5/16	.3125	5/16	2.087	3.580	**AX2806538**	Price
21/64	.3281	3/8	2.402	4.060	**AX2806543**	Price
Q	.3320	3/8	2.402	4.060	**AX2806545**	Price
11/32	.3438	3/8	2.402	4.060	**AX2806549**	Price
23/64	.3594	3/8	2.402	4.060	**AX2806554**	Price
3/8	.3750	3/8	2.402	4.060	**AX2806560**	Price
25/64	.3906	7/16	2.402	4.060	**AX2806565**	Price
13/32	.4063	7/16	2.795	4.650	**AX2806570**	Price
27/64	.4219	7/16	2.795	4.650	**AX2806575**	Price
7/16	.4375	7/16	2.795	4.650	**AX2806580**	Price
15/32	.4688	1/2	2.795	4.650	**AX2806589**	Price
31/64	.4844	1/2	3.031	4.880	**AX2806592**	Price
1/2	.5000	1/2	3.031	4.880	**AX2806594**	Price
33/64	.5156	9/16	3.031	4.880	**AX2806599**	Price
17/32	.5312	9/16	3.031	4.880	**AX2806600**	Price
35/64	.5469	9/16	3.031	4.880	**AX2806603**	Price
9/16	.5625	9/16	3.268	5.240	**AX2806605**	Price
19/32	.5938	5/8	3.268	5.240	**AX2806609**	Price
5/8	.6250	5/8	3.268	5.240	**AX2806613**	Price

HY-PRO® CARB Drill



Solid Carbide • 5xD Length • TiAlN Coated

- High performance carbide
- Recommended for cast iron, carbon steels, alloy steels, die steels and hardened steels up to 35 HrC
- OSG List #HP245

Size (in.)	Decimal Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	.1248	6mm	28mm	66mm	**TP45HP2451248**	Price
3/16	.1874	6mm	44mm	82mm	**TP45HP2451874**	Price
7/32	.2189	6mm	44mm	82mm	**TP45HP2452189**	Price
1/4, E	.2500	8mm	53mm	91mm	**TP45HP2452500**	Price
9/32, K	.2811	8mm	53mm	91mm	**TP45HP2452811**	Price
5/16	.3126	8mm	53mm	91mm	**TP45HP2453126**	Price
11/32	.3437	10mm	61mm	103mm	**TP45HP2453437**	Price
3/8	.3748	10mm	61mm	103mm	**TP45HP2453748**	Price

Size (in.)	Decimal Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Price
13/32	.4063	12mm	71mm	118mm	**TP45HP2454063**	Price
7/16	.4374	12mm	71mm	118mm	**TP45HP2454374**	Price
1/2	.5000	14mm	77mm	124mm	**TP45HP2455000**	Price
17/32	.5311	14mm	77mm	124mm	**TP45HP2455311**	Price
19/32	.5937	16mm	83mm	133mm	**TP45HP2455937**	Price
5/8	.6248	16mm	83mm	133mm	**TP45HP2456248**	Price
21/32	.6563	18mm	93mm	143mm	**TP45HP2456563**	Price
3/4	.7500	20mm	101mm	153mm	**TP45HP2457500**	Price

RAPIDKUT 8xD High Performance Solid Carbide Drills

- For use in a wide variety of materials including carbon steel, alloy steel, stainless steel, hardened steel, cast iron, aluminum alloys, titanium and others
- 140° Point and 30° helix high performance geometry allows for high penetration rates
- These high penetration drills provide accurate hole sizing as well as near burnished holes
- TiAlN coated



- Fractional					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
1/4	1/4	3	4-1/2	**AX8022005**	Price
17/64	5/16	3	4-1/2	**AX8022010**	Price
9/32	5/16	3	4-1/2	**AX8022015**	Price
19/64	5/16	3	4-1/2	**AX8022020**	Price
5/16	5/16	3	4-1/2	**AX8022025**	Price
21/64	3/8	3-3/4	5-3/4	**AX8022030**	Price
11/32	3/8	3-3/4	5-3/4	**AX8022035**	Price
23/64	3/8	3-3/4	5-3/4	**AX8022040**	Price
3/8	3/8	3-3/4	5-3/4	**AX8022045**	Price
25/64	7/16	4-1/2	6-1/2	**AX8022050**	Price
13/32	7/16	4-1/2	6-1/2	**AX8022055**	Price
27/64	7/16	4-1/2	6-1/2	**AX8022060**	Price
7/16	7/16	4-1/2	6-1/2	**AX8022065**	Price
29/64	1/2	5-1/4	7	**AX8022070**	Price
15/32	1/2	5-1/4	7	**AX8022075**	Price
31/64	1/2	5-1/4	7	**AX8022080**	Price
1/2	1/2	5-1/4	7	**AX8022085**	Price
33/64	9/16	5-1/4	7	**AX8022090**	Price
17/32	9/16	5-1/4	7	**AX8022095**	Price
35/64	9/16	5-1/4	7	**AX8022100**	Price
9/16	9/16	5-1/4	7	**AX8022105**	Price
37/64	5/8	6	8	**AX8022110**	Price
19/32	5/8	6	8	**AX8022115**	Price
39/64	5/8	6	8	**AX8022120**	Price
5/8	5/8	6	8	**AX8022125**	Price

- Metric					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
3mm	6mm	34mm	72mm	**AX8032003**	Price
3.5mm	6mm	34mm	72mm	**AX8032005**	Price
3.7mm	6mm	34mm	72mm	**AX8032010**	Price
3.8mm	6mm	43mm	81mm	**AX8032015**	Price
4mm	6mm	43mm	81mm	**AX8032020**	Price
4.2mm	6mm	43mm	81mm	**AX8032025**	Price
4.5mm	6mm	43mm	81mm	**AX8032030**	Price
4.8mm	6mm	57mm	95mm	**AX8032035**	Price
5mm	6mm	57mm	95mm	**AX8032040**	Price

- Metric					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
5.1mm	6mm	57mm	95mm	**AX8032045**	Price
5.2mm	6mm	57mm	95mm	**AX8032050**	Price
5.5mm	6mm	57mm	95mm	**AX8032055**	Price
5.8mm	6mm	57mm	95mm	**AX8032060**	Price
6mm	6mm	57mm	95mm	**AX8032065**	Price
6.3mm	8mm	76mm	114mm	**AX8032070**	Price
6.5mm	8mm	76mm	114mm	**AX8032075**	Price
6.8mm	8mm	76mm	114mm	**AX8032080**	Price
7mm	8mm	76mm	114mm	**AX8032085**	Price
7.5mm	8mm	76mm	114mm	**AX8032090**	Price
7.8mm	8mm	76mm	114mm	**AX8032095**	Price
8mm	8mm	76mm	114mm	**AX8032100**	Price
8.5mm	10mm	95mm	142mm	**AX8032105**	Price
8.8mm	10mm	95mm	142mm	**AX8032110**	Price
9mm	10mm	95mm	142mm	**AX8032115**	Price
9.2mm	10mm	95mm	142mm	**AX8032120**	Price
9.5mm	10mm	95mm	142mm	**AX8032125**	Price
9.8mm	10mm	95mm	142mm	**AX8032130**	Price
10mm	10mm	95mm	142mm	**AX8032135**	Price
10.2mm	12mm	114mm	162mm	**AX8032140**	Price
10.5mm	12mm	114mm	162mm	**AX8032145**	Price
10.8mm	12mm	114mm	162mm	**AX8032150**	Price
11mm	12mm	114mm	162mm	**AX8032155**	Price
11.5mm	12mm	114mm	162mm	**AX8032160**	Price
11.8mm	12mm	114mm	162mm	**AX8032165**	Price
12mm	12mm	114mm	162mm	**AX8032170**	Price
12.3mm	14mm	133mm	178mm	**AX8032175**	Price
12.5mm	14mm	133mm	178mm	**AX8032180**	Price
12.8mm	14mm	133mm	178mm	**AX8032185**	Price
13mm	14mm	133mm	178mm	**AX8032190**	Price
13.5mm	14mm	133mm	178mm	**AX8032195**	Price
14mm	14mm	133mm	178mm	**AX8032200**	Price
14.5mm	16mm	152mm	203mm	**AX8032205**	Price
15mm	16mm	152mm	203mm	**AX8032210**	Price
15.5mm	16mm	152mm	203mm	**AX8032215**	Price
16mm	16mm	152mm	203mm	**AX8032220**	Price

RAPIDKUT 3xD High Performance Solid Carbide Coolant Thru Drills

- For use in a wide variety of materials including carbon steel, alloy steel, stainless steel, hardened steel, cast iron, aluminum alloys, titanium and others
- 140° Point and 30° helix high performance geometry allows for high penetration rates
- These high penetration drills provide accurate hole sizing as well as near burnished holes
- TiAlN coated

MADE IN THE USA



- Fractional					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
1/4	1/4	1.279	3-15/32	**AX8170005**	Price
17/64	5/16	1.378	3-15/32	**AX8170010**	Price
9/32	5/16	1.476	3.701	**AX8170015**	Price
5/16	5/16	1.575	3.701	**AX8170020**	Price
11/32	3/8	1.772	3.937	**AX8170025**	Price
3/8	3/8	1.969	4.174	**AX8170030**	Price
13/32	7/16	2.067	4.567	**AX8170035**	Price
7/16	7/16	2.264	4.803	**AX8170040**	Price
15/32	1/2	2.362	4.803	**AX8170045**	Price
1/2	1/2	2.559	5.039	**AX8170050**	Price
17/32	9/16	2.756	5.276	**AX8170055**	Price
9/16	9/16	2.854	5.512	**AX8170060**	Price
5/8	5/8	3.16	5.709	**AX8170065**	Price
11/16	11/16	3.445	6.102	**AX8170070**	Price
3/4	3/4	3.839	6.496	**AX8170075**	Price

- Metric					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
1mm	3mm	7mm	45mm	**AX8179925**	Price
1.1mm	3mm	7mm	45mm	**AX8179930**	Price
1.2mm	3mm	7mm	45mm	**AX8179935**	Price
1.3mm	3mm	7mm	45mm	**AX8179940**	Price
1.4mm	3mm	7mm	45mm	**AX8179945**	Price
1.5mm	3mm	14mm	55mm	**AX8179950**	Price
1.6mm	3mm	14mm	55mm	**AX8179955**	Price
1.7mm	3mm	14mm	55mm	**AX8179960**	Price
1.8mm	3mm	14mm	55mm	**AX8179965**	Price
1.9mm	3mm	14mm	55mm	**AX8179970**	Price
2mm	4mm	20mm	55mm	**AX8179975**	Price
2.1mm	4mm	20mm	55mm	**AX8179980**	Price
2.2mm	4mm	20mm	55mm	**AX8179985**	Price
2.3mm	4mm	20mm	55mm	**AX8179990**	Price
2.4mm	4mm	20mm	55mm	**AX8179995**	Price
2.5mm	4mm	20mm	55mm	**AX8180000**	Price
2.6mm	4mm	20mm	55mm	**AX8180001**	Price
2.7mm	4mm	20mm	55mm	**AX8180002**	Price
2.8mm	4mm	20mm	55mm	**AX8180003**	Price
2.9mm	4mm	20mm	55mm	**AX8180004**	Price
3mm	6mm	20mm	62mm	**AX8180005**	Price
3.1mm	6mm	20mm	62mm	**AX8180006**	Price
3.2mm	6mm	20mm	62mm	**AX8180008**	Price
3.3mm	6mm	20mm	62mm	**AX8180007**	Price
3.4mm	6mm	20mm	62mm	**AX8180009**	Price
3.5mm	6mm	20mm	62mm	**AX8180010**	Price
3.6mm	6mm	24mm	66mm	**AX8180012**	Price
3.7mm	6mm	20mm	62mm	**AX8180013**	Price
3.8mm	6mm	24mm	66mm	**AX8180014**	Price
3.9mm	6mm	24mm	66mm	**AX8180016**	Price
4mm	6mm	24mm	66mm	**AX8180015**	Price
4.1mm	6mm	24mm	66mm	**AX8180017**	Price
4.2mm	6mm	24mm	66mm	**AX8180019**	Price
4.3mm	6mm	24mm	66mm	**AX8180018**	Price
4.4mm	6mm	24mm	66mm	**AX8180021**	Price
4.5mm	6mm	24mm	66mm	**AX8180020**	Price
4.6mm	6mm	24mm	66mm	**AX8180022**	Price
4.7mm	6mm	24mm	66mm	**AX8180036**	Price
4.8mm	6mm	24mm	66mm	**AX8180023**	Price
4.9mm	6mm	24mm	66mm	**AX8180024**	Price
5mm	6mm	24mm	66mm	**AX8180025**	Price
5.1mm	6mm	24mm	66mm	**AX8180026**	Price
5.2mm	6mm	24mm	66mm	**AX8180027**	Price
5.3mm	6mm	24mm	66mm	**AX8180028**	Price
5.4mm	6mm	28mm	66mm	**AX8180029**	Price
5.5mm	6mm	24mm	66mm	**AX8180030**	Price
5.6mm	6mm	24mm	66mm	**AX8180032**	Price
5.7mm	6mm	28mm	66mm	**AX8180031**	Price
5.8mm	6mm	28mm	66mm	**AX8180033**	Price
5.9mm	6mm	28mm	66mm	**AX8180034**	Price

- Metric					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
6mm	6mm	24mm	66mm	**AX8180035**	Price
6.1mm	8mm	34mm	79mm	**AX8180037**	Price
6.2mm	8mm	34mm	79mm	**AX8180038**	Price
6.3mm	8mm	34mm	79mm	**AX8180041**	Price
6.4mm	8mm	34mm	79mm	**AX8180039**	Price
6.5mm	8mm	34mm	79mm	**AX8180040**	Price
6.6mm	8mm	34mm	79mm	**AX8180042**	Price
6.7mm	8mm	34mm	79mm	**AX8180043**	Price
6.8mm	8mm	34mm	79mm	**AX8180044**	Price
6.9mm	8mm	34mm	79mm	**AX8180046**	Price
7mm	8mm	34mm	79mm	**AX8180045**	Price
7.1mm	8mm	41mm	79mm	**AX8180047**	Price
7.2mm	8mm	41mm	79mm	**AX8180048**	Price
7.3mm	8mm	41mm	79mm	**AX8180049**	Price
7.4mm	8mm	41mm	79mm	**AX8180051**	Price
7.5mm	8mm	41mm	79mm	**AX8180050**	Price
7.6mm	8mm	41mm	79mm	**AX8180052**	Price
7.7mm	8mm	41mm	79mm	**AX8180053**	Price
7.8mm	8mm	41mm	79mm	**AX8180054**	Price
7.9mm	8mm	41mm	79mm	**AX8180056**	Price
8mm	8mm	41mm	79mm	**AX8180055**	Price
8.1mm	10mm	47mm	89mm	**AX8180058**	Price
8.2mm	10mm	47mm	89mm	**AX8180059**	Price
8.3mm	10mm	47mm	89mm	**AX8180061**	Price
8.4mm	10mm	47mm	89mm	**AX8180057**	Price
8.5mm	10mm	47mm	89mm	**AX8180060**	Price
8.6mm	10mm	47mm	89mm	**AX8180063**	Price
8.7mm	10mm	47mm	89mm	**AX8180064**	Price
8.8mm	10mm	47mm	89mm	**AX8180062**	Price
8.9mm	10mm	47mm	89mm	**AX8180066**	Price
9mm	10mm	47mm	89mm	**AX8180065**	Price
9.1mm	10mm	47mm	89mm	**AX8180067**	Price
9.2mm	10mm	47mm	89mm	**AX8180068**	Price
9.3mm	10mm	47mm	89mm	**AX8180069**	Price
9.4mm	10mm	47mm	89mm	**AX8180071**	Price
9.5mm	10mm	47mm	89mm	**AX8180070**	Price
9.6mm	10mm	47mm	89mm	**AX8180072**	Price
9.7mm	10mm	47mm	89mm	**AX8180073**	Price
9.8mm	10mm	47mm	89mm	**AX8180074**	Price
9.9mm	10mm	47mm	89mm	**AX8180076**	Price
10mm	10mm	47mm	89mm	**AX8180075**	Price
10.1mm	12mm	55mm	102mm	**AX8180077**	Price
10.2mm	12mm	55mm	102mm	**AX8180078**	Price
10.3mm	12mm	55mm	102mm	**AX8180079**	Price
10.4mm	12mm	55mm	102mm	**AX8180081**	Price
10.5mm	12mm	55mm	102mm	**AX8180080**	Price
10.6mm	12mm	55mm	102mm	**AX8180083**	Price
10.7mm	12mm	55mm	102mm	**AX8180084**	Price
10.8mm	12mm	55mm	102mm	**AX8180082**	Price
10.9mm	12mm	55mm	102mm	**AX8180086**	Price
11mm	12mm	55mm	102mm	**AX8180085**	Price
11.1mm	12mm	55mm	102mm	**AX8180087**	Price
11.2mm	12mm	55mm	102mm	**AX8180088**	Price
11.3mm	12mm	55mm	102mm	**AX8180089**	Price
11.4mm	12mm	55mm	102mm	**AX8180091**	Price
11.5mm	12mm	55mm	102mm	**AX8180090**	Price
11.6mm	12mm	55mm	102mm	**AX8180092**	Price
11.7mm	12mm	55mm	102mm	**AX8180093**	Price
11.8mm	12mm	55mm	102mm	**AX8180094**	Price
11.9mm	12mm	55mm	102mm	**AX8180096**	Price
12mm	12mm	55mm	102mm	**AX8180095**	Price
12.1mm	14mm	60mm	107mm	**AX8180097**	Price
12.2mm	14mm	60mm	107mm	**AX8180098**	Price
12.3mm	14mm	60mm	107mm	**AX8180099**	Price
12.4mm	14mm	60mm	107mm	**AX8180101**	Price
12.5mm	14mm	60mm	107mm	**AX8180100**	Price
12.6mm	14mm	60mm	107mm	**AX8180102**	Price
12.7mm	14mm	60mm	107mm	**AX8180103**	Price
12.8mm	14mm	60mm	107mm	**AX8180104**	Price
12.9mm	14mm	60mm	107mm	**AX8180106**	Price
13mm	14mm	60mm	107mm	**AX8180105**	Price
13.5mm	14mm	60mm	107mm	**AX8180110**	Price
14mm	14mm	60mm	107mm	**AX8180115**	Price
14.5mm	16mm	65mm	115mm	**AX8180120**	Price
15mm	16mm	65mm	115mm	**AX8180125**	Price
15.5mm	16mm	65mm	115mm	**AX8180130**	Price
16mm	16mm	65mm	115mm	**AX8180135**	Price
16.5mm	18mm	73mm	123mm	**AX8180137**	Price
17mm	18mm	73mm	123mm	**AX8180140**	Price
17.5mm	18mm	73mm	123mm	**AX8180142**	Price
18mm	18mm	73mm	123mm	**AX8180145**	Price
19mm	20mm	79mm	131mm	**AX8180150**	Price
20mm	20mm	79mm	131mm	**AX8180155**	Price

Twister GP® High Performance Solid Carbide Drills • Coolant Thru

3xD Length • 142° Point • ALtima® Coated

- ALtima® (AlTiN) coating provides for extended tool life
- Drills can be reconditioned and recoated
- 30° Helix angle
- Recommended for a broad cross section of materials at increased feed rates
- Full size range available: #31 (.1200)-5/8" and 3.0-16mm
- M.A. Ford List #204



Size (in./mm)	Flute Length (in./mm)	OAL (in./mm)	Order No.	Price
1/8	.7500	2.250	**AX2704406**	Price
5/32	.8750	2.500	**AX2704432**	Price
11/64	1.000	2.500	**AX2704444**	Price
3/16	1.000	2.500	**AX2704454**	Price
13/64	1.102	2.598	**AX2704464**	Price
7/32	1.102	2.598	**AX2704474**	Price
1/4	1.339	3.110	**AX2704498**	Price
17/64	1.339	3.110	**AX2704512**	Price
9/32	1.614	3.110	**AX2704522**	Price
5/16	1.614	3.110	**AX2704542**	Price
11/32	1.850	3.504	**AX2704564**	Price
3/8	1.850	3.504	**AX2704586**	Price
13/32	2.165	4.016	**AX2704606**	Price
7/16	2.165	4.016	**AX2704626**	Price
1/2	2.362	4.213	**AX2704654**	Price
3mm	16mm	57mm	**AX2704400**	Price
4mm	22mm	63mm	**AX2704434**	Price
5mm	26mm	63mm	**AX2704460**	Price
6mm	28mm	66mm	**AX2704486**	Price
7mm	34mm	79mm	**AX2704518**	Price
8mm	41mm	79mm	**AX2704544**	Price
9mm	47mm	89mm	**AX2704570**	Price
10mm	47mm	89mm	**AX2704598**	Price
12mm	55mm	102mm	**AX2704646**	Price
30	.8750	2.500	**AX2704410**	Price
31	.7500	2.250	**AX2704402**	Price

Above 5mm to DIN 6537K

HY-PRO® CARB Drill • Coolant Thru

Solid Carbide • 3xD Length • TiAlN Coated

- High performance carbide
- Recommended for cast iron, carbon steels, alloy steels, die steels and hardened steels up to 35 HrC
- OSG List #HP253



Size (in.)	Decimal Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	.1248	6mm	20mm	62mm	**TP45HP2531248**	Price
3/16	.1874	6mm	28mm	66mm	**TP45HP2531874**	Price
7/32	.2189	6mm	28mm	66mm	**TP45HP2532189**	Price
1/4, E	.2500	8mm	34mm	79mm	**TP45HP2532500**	Price
9/32	.2811	8mm	41mm	79mm	**TP45HP2532811**	Price
5/16	.3126	8mm	41mm	79mm	**TP45HP2533126**	Price
11/32	.3437	10mm	47mm	89mm	**TP45HP2533437**	Price
3/8	.3748	10mm	47mm	89mm	**TP45HP2533748**	Price
13/32	.4063	12mm	55mm	102mm	**TP45HP2534063**	Price
7/16	.4374	12mm	55mm	102mm	**TP45HP2534374**	Price
1/2	.5000	14mm	60mm	107mm	**TP45HP2535000**	Price
5/8	.6248	16mm	65mm	115mm	**TP45HP2536248**	Price
3/4	.7500	20mm	79mm	131mm	**TP45HP2537500**	Price

EXOPRO® Mega Muscle® Carbide Drills

Coolant Thru • 3xD Length • WD-1 Coated

- High performance carbide
- Up to 200 IPM in steel and 670 IPM in cast iron
- 3 Flute
- Recommended for cast iron, carbon steels, alloy steels and 400 series stainless steels
- OSG List #5600



Size (in.)	Decimal Equiv.	Shank Dia. (in.)	Flute Length	OAL	Order No.	Price
13/64	.2031	15/64	26mm	82mm	**TP51560020311**	Price
7/32	.2189	15/64	28mm	82mm	**TP51560021911**	Price
15/64	.2343	15/64	30mm	82mm	**TP51560023411**	Price
1/4, E	.2500	1/4	32mm	88mm	**TP51560025011**	Price
17/64	.2657	17/64	34mm	88mm	**TP51560026611**	Price
9/32, K	.2811	9/32	36mm	94mm	**TP51560028111**	Price
19/64	.2969	5/16	38mm	94mm	**TP51560029711**	Price
5/16	.3126	5/16	40mm	94mm	**TP51560031311**	Price
21/64	.3280	11/32	42mm	101mm	**TP51560032811**	Price
11/32	.3437	11/32	44mm	101mm	**TP51560034411**	Price
23/64	.3594	25/64	46mm	106mm	**TP51560035911**	Price
3/8	.3752	3/8	48mm	106mm	**TP51560037511**	Price
25/64	.3906	25/64	50mm	106mm	**TP51560039111**	Price
13/32	.4063	27/64	52mm	113mm	**TP51560040611**	Price
27/64	.4220	27/64	54mm	113mm	**TP51560042211**	Price
7/16	.4374	7/16	56mm	120mm	**TP51560043711**	Price
29/64	.4531	15/32	58mm	120mm	**TP51560045311**	Price
15/32	.4689	15/32	60mm	120mm	**TP51560046911**	Price
31/64	.4843	1/2	62mm	128mm	**TP51560048411**	Price
1/2	.5000	1/2	64mm	128mm	**TP51560050011**	Price
17/32	.5311	35/64	68mm	134mm	**TP51560053111**	Price
9/16	.5626	9/16	72mm	140mm	**TP51560056311**	Price
5/8	.6252	5/8	80mm	145mm	**TP51560062511**	Price
21/32	.6563	21/32	85mm	150mm	**TP51560065611**	Price
3/4	.7500	3/4	95mm	160mm	**TP51560075011**	Price

DORMER ForceX High Performance Solid Carbide Drills • Coolant Thru

3xD Length • 140° Point • TiAlN Coated

- Multi-application solid carbide drills, excellent for drilling a wide range of materials, including steel, stainless steel, cast iron & more
- 140º Point provides excellent centering capabilities
- Common shanks to cut collet cost
- Manufactured to DIN 6537
- Complete range of sizes available, fractional & metric
- Dormer List #R457



Size (in.)	Shank Dia.	Flute Length	OAL	Order No.	Price
1/4	8mm	34mm	79mm	**PT380624425**	Price
9/32	8mm	41mm	79mm	**PT380624807**	Price
5/16	8mm	41mm	79mm	**PT380624746**	Price
11/32	10mm	47mm	89mm	**PT380624456**	Price
3/8	10mm	47mm	89mm	**PT380624647**	Price
13/32	12mm	55mm	102mm	**PT380624470**	Price
7/16	12mm	55mm	102mm	**PT380624777**	Price
15/32	12mm	55mm	102mm	**PT380624494**	Price
1/2	14mm	60mm	107mm	**PT380624418**	Price

RAPIDKUT 5xD High Performance Solid Carbide Coolant Thru Drills

MADE IN THE USA

- For use in a wide variety of materials including carbon steel, alloy steel, stainless steel, hardened steel, cast iron, aluminum alloys, titanium and others
- 140° Point and 30° helix high performance geometry allows for high penetration rates
- These high penetration drills provide accurate hole sizing as well as near burnished holes
- TiAlN coated



- Fractional					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
1/4	1/4	2.08	3.58	**AX8171005**	Price
17/64	5/16	2.08	3.58	**AX8171010**	Price
9/32	5/16	2.08	3.58	**AX8171015**	Price
19/64	5/16	2.08	3.58	**AX8171020**	Price
5/16	5/16	2.08	3.58	**AX8171025**	Price
21/64	3/8	2.40	4.05	**AX8171030**	Price
11/32	3/8	2.40	4.05	**AX8171035**	Price
23/64	3/8	2.40	4.05	**AX8171040**	Price
3/8	3/8	2.40	4.05	**AX8171045**	Price
25/64	7/16	2.80	4.05	**AX8171050**	Price
13/32	7/16	2.80	4.64	**AX8171055**	Price
7/16	7/16	2.80	4.64	**AX8171060**	Price
15/32	1/2	2.80	4-7/8	**AX8171065**	Price
1/2	1/2	3-1/32	4-7/8	**AX8171070**	Price
17/32	9/16	3-1/32	4-7/8	**AX8171075**	Price
9/16	9/16	3-1/32	4-7/8	**AX8171080**	Price
5/8	5/8	3-17/64	5.23	**AX8171085**	Price
11/16	11/16	3-21/32	5-5/8	**AX8171090**	Price
3/4	3/4	3-31/32	6	**AX8171095**	Price

- Metric					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
1mm	3mm	8mm	55mm	**AX8180500**	Price
1.1mm	3mm	12mm	55mm	**AX8180502**	Price
1.2mm	3mm	12mm	55mm	**AX8180505**	Price
1.3mm	3mm	12mm	55mm	**AX8180507**	Price
1.4mm	3mm	12mm	55mm	**AX8180509**	Price
1.5mm	3mm	16mm	55mm	**AX8180511**	Price
1.6mm	3mm	16mm	55mm	**AX8180513**	Price
1.7mm	3mm	16mm	55mm	**AX8180515**	Price
1.8mm	3mm	16mm	55mm	**AX8180517**	Price
1.9mm	3mm	16mm	55mm	**AX8180519**	Price
2mm	4mm	21mm	57mm	**AX8180521**	Price
2.1mm	4mm	21mm	57mm	**AX8180523**	Price
2.2mm	4mm	21mm	57mm	**AX8180525**	Price
2.3mm	4mm	21mm	57mm	**AX8180527**	Price
2.4mm	4mm	21mm	57mm	**AX8180529**	Price
2.5mm	4mm	21mm	57mm	**AX8180531**	Price
2.6mm	4mm	21mm	57mm	**AX8180533**	Price
2.7mm	4mm	21mm	57mm	**AX8180535**	Price
2.8mm	4mm	21mm	57mm	**AX8180537**	Price
2.9mm	4mm	21mm	57mm	**AX8180539**	Price
3mm	6mm	28mm	66mm	**AX8181005**	Price
3.1mm	6mm	28mm	66mm	**AX8181006**	Price
3.2mm	6mm	28mm	66mm	**AX8181007**	Price
3.3mm	6mm	28mm	66mm	**AX8181008**	Price
3.4mm	6mm	28mm	66mm	**AX8181009**	Price
3.5mm	6mm	28mm	66mm	**AX8181010**	Price
3.6mm	6mm	28mm	66mm	**AX8181011**	Price
3.7mm	6mm	28mm	66mm	**AX8181012**	Price
3.8mm	6mm	28mm	66mm	**AX8181013**	Price
3.9mm	6mm	36mm	74mm	**AX8181014**	Price
4mm	6mm	36mm	74mm	**AX8181015**	Price
4.1mm	6mm	36mm	74mm	**AX8181016**	Price
4.2mm	6mm	36mm	74mm	**AX8181017**	Price
4.3mm	6mm	36mm	74mm	**AX8181018**	Price
4.4mm	6mm	36mm	74mm	**AX8181019**	Price
4.5mm	6mm	36mm	74mm	**AX8181020**	Price
4.6mm	6mm	36mm	74mm	**AX8181021**	Price
4.7mm	6mm	24mm	66mm	**AX8181022**	Price
4.8mm	6mm	44mm	82mm	**AX8181023**	Price
4.9mm	6mm	44mm	82mm	**AX8181024**	Price
5mm	6mm	44mm	82mm	**AX8181025**	Price
5.1mm	6mm	44mm	82mm	**AX8181026**	Price
5.2mm	6mm	44mm	82mm	**AX8181027**	Price
5.3mm	6mm	44mm	82mm	**AX8181028**	Price
5.4mm	6mm	44mm	82mm	**AX8181029**	Price
5.5mm	6mm	44mm	82mm	**AX8181030**	Price
5.6mm	6mm	44mm	82mm	**AX8181032**	Price
5.7mm	6mm	44mm	82mm	**AX8181033**	Price
5.8mm	6mm	44mm	82mm	**AX8181034**	Price

- Metric					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
5.9mm	6mm	44mm	82mm	**AX8181036**	Price
6mm	6mm	44mm	82mm	**AX8181035**	Price
6.1mm	8mm	53mm	91mm	**AX8181037**	Price
6.2mm	8mm	53mm	91mm	**AX8181039**	Price
6.3mm	8mm	53mm	91mm	**AX8181046**	Price
6.4mm	8mm	53mm	91mm	**AX8181038**	Price
6.5mm	8mm	53mm	91mm	**AX8181040**	Price
6.6mm	8mm	53mm	91mm	**AX8181041**	Price
6.7mm	8mm	53mm	91mm	**AX8181042**	Price
6.8mm	8mm	53mm	91mm	**AX8181043**	Price
6.9mm	8mm	53mm	91mm	**AX8181044**	Price
7mm	8mm	53mm	91mm	**AX8181045**	Price
7.1mm	8mm	53mm	91mm	**AX8181048**	Price
7.2mm	8mm	53mm	91mm	**AX8181049**	Price
7.3mm	8mm	53mm	91mm	**AX8181047**	Price
7.4mm	8mm	53mm	91mm	**AX8181051**	Price
7.5mm	8mm	53mm	91mm	**AX8181050**	Price
7.6mm	8mm	53mm	91mm	**AX8181052**	Price
7.7mm	8mm	53mm	91mm	**AX8181053**	Price
7.8mm	8mm	53mm	91mm	**AX8181054**	Price
7.9mm	8mm	53mm	91mm	**AX8181058**	Price
8mm	8mm	53mm	91mm	**AX8181055**	Price
8.1mm	10mm	61mm	103mm	**AX8181056**	Price
8.2mm	10mm	61mm	103mm	**AX8181057**	Price
8.3mm	10mm	61mm	103mm	**AX8181061**	Price
8.4mm	10mm	61mm	103mm	**AX8181059**	Price
8.5mm	10mm	61mm	103mm	**AX8181060**	Price
8.6mm	10mm	61mm	103mm	**AX8181062**	Price
8.7mm	10mm	61mm	103mm	**AX8181063**	Price
8.8mm	10mm	61mm	103mm	**AX8181064**	Price
8.9mm	10mm	61mm	103mm	**AX8181067**	Price
9mm	10mm	61mm	103mm	**AX8181065**	Price
9.1mm	10mm	61mm	103mm	**AX8181066**	Price
9.2mm	10mm	61mm	103mm	**AX8181068**	Price
9.3mm	10mm	61mm	103mm	**AX8181069**	Price
9.4mm	10mm	61mm	103mm	**AX8181071**	Price
9.5mm	10mm	61mm	103mm	**AX8181070**	Price
9.6mm	10mm	61mm	103mm	**AX8181072**	Price
9.7mm	10mm	61mm	103mm	**AX8180541**	Price
9.8mm	10mm	47mm	89mm	**AX8181073**	Price
9.9mm	10mm	61mm	103mm	**AX8181074**	Price
10mm	10mm	61mm	103mm	**AX8181075**	Price
10.1mm	12mm	71mm	118mm	**AX8181076**	Price
10.2mm	12mm	71mm	118mm	**AX8181077**	Price
10.3mm	12mm	71mm	118mm	**AX8181078**	Price
10.4mm	12mm	71mm	118mm	**AX8181079**	Price
10.5mm	12mm	71mm	118mm	**AX8181080**	Price
10.6mm	12mm	71mm	118mm	**AX8181081**	Price
10.7mm	12mm	71mm	118mm	**AX8181082**	Price
10.8mm	12mm	71mm	118mm	**AX8181083**	Price
10.9mm	12mm	71mm	118mm	**AX8181084**	Price
11mm	12mm	71mm	118mm	**AX8181085**	Price
11.1mm	12mm	71mm	118mm	**AX8181086**	Price
11.2mm	12mm	71mm	118mm	**AX8181087**	Price
11.3mm	12mm	71mm	118mm	**AX8181088**	Price
11.4mm	12mm	71mm	118mm	**AX8181089**	Price
11.5mm	12mm	71mm	118mm	**AX8181090**	Price
11.6mm	12mm	71mm	118mm	**AX8181091**	Price
11.7mm	12mm	71mm	118mm	**AX8181092**	Price
11.8mm	12mm	71mm	118mm	**AX8181093**	Price
11.9mm	12mm	71mm	118mm	**AX8181094**	Price
12mm	12mm	71mm	118mm	**AX8181095**	Price
12.1mm	14mm	77mm	124mm	**AX8181096**	Price
12.2mm	14mm	77mm	124mm	**AX8181097**	Price
12.3mm	14mm	77mm	124mm	**AX8181098**	Price
12.4mm	14mm	77mm	124mm	**AX8181099**	Price
12.5mm	14mm	77mm	124mm	**AX8181100**	Price
12.6mm	14mm	77mm	124mm	**AX8181101**	Price
12.7mm	14mm	77mm	124mm	**AX8181102**	Price
12.8mm	14mm	77mm	124mm	**AX8181103**	Price
12.9mm	14mm	77mm	124mm	**AX8181104**	Price
13mm	14mm	77mm	124mm	**AX8181105**	Price
13.5mm	14mm	77mm	124mm	**AX8181110**	Price
14mm	14mm	77mm	124mm	**AX8181115**	Price
14.5mm	16mm	83mm	133mm	**AX8181120**	Price
15mm	16mm	83mm	133mm	**AX8181125**	Price
15.5mm	16mm	83mm	133mm	**AX8181130**	Price
16mm	16mm	83mm	133mm	**AX8181135**	Price
16.5mm	18mm	93mm	143mm	**AX8181140**	Price
17mm	18mm	93mm	143mm	**AX8181145**	Price
17.5mm	18mm	93mm	143mm	**AX8181150**	Price
18mm	18mm	93mm	143mm	**AX8181155**	Price
19mm	20mm	101mm	153mm	**AX8181157**	Price
20mm	20mm	101mm	153mm	**AX8181160**	Price

RAPIDKUT Solid Carbide Coolant Thru Inox Drills

5xD • TiAlN Coated

- Good for use on stainless steels, nickel alloys and titanium up to HRc35
- Excellent chip evacuation
- 140° Point



Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1mm	3mm	8mm	55mm	**AX8250301**	Price
1.1mm	3mm	12mm	55mm	**AX8250303**	Price
1.2mm	3mm	12mm	55mm	**AX8250305**	Price
1.3mm	3mm	12mm	55mm	**AX8250307**	Price
1.4mm	3mm	12mm	55mm	**AX8250309**	Price
1.5mm	3mm	16mm	55mm	**AX8250311**	Price
1.6mm	3mm	16mm	55mm	**AX8250313**	Price
1.7mm	3mm	16mm	55mm	**AX8250315**	Price
1.8mm	3mm	16mm	55mm	**AX8250317**	Price
1.9mm	3mm	16mm	55mm	**AX8250319**	Price
2mm	4mm	21mm	57mm	**AX8250321**	Price
2.1mm	4mm	21mm	57mm	**AX8250323**	Price
2.2mm	4mm	21mm	57mm	**AX8250325**	Price
2.3mm	4mm	21mm	57mm	**AX8250327**	Price
2.4mm	4mm	21mm	57mm	**AX8250329**	Price
2.5mm	4mm	21mm	57mm	**AX8250331**	Price
2.6mm	4mm	21mm	57mm	**AX8250333**	Price
2.7mm	4mm	21mm	57mm	**AX8250335**	Price
2.8mm	4mm	21mm	57mm	**AX8250337**	Price
2.9mm	4mm	21mm	57mm	**AX8250339**	Price
3mm	6mm	28mm	66mm	**AX8250341**	Price
3.1mm	6mm	28mm	66mm	**AX8250343**	Price
3.2mm	6mm	28mm	66mm	**AX8250345**	Price
3.25mm	6mm	28mm	66mm	**AX8250347**	Price
3.3mm	6mm	28mm	66mm	**AX8250349**	Price
3.4mm	6mm	28mm	66mm	**AX8250351**	Price
3.5mm	6mm	28mm	66mm	**AX8250353**	Price
3.6mm	6mm	28mm	66mm	**AX8250355**	Price
3.7mm	6mm	28mm	66mm	**AX8250357**	Price
3.75mm	6mm	28mm	66mm	**AX8250359**	Price
3.8mm	6mm	36mm	74mm	**AX8250361**	Price
3.9mm	6mm	36mm	74mm	**AX8250363**	Price
4mm	6mm	36mm	74mm	**AX8250365**	Price
4.1mm	6mm	36mm	74mm	**AX8250367**	Price
4.2mm	6mm	36mm	74mm	**AX8250369**	Price
4.25mm	6mm	36mm	74mm	**AX8250371**	Price
4.3mm	6mm	36mm	74mm	**AX8250373**	Price
4.4mm	6mm	36mm	74mm	**AX8250375**	Price
4.5mm	6mm	36mm	74mm	**AX8250377**	Price
4.6mm	6mm	36mm	74mm	**AX8250379**	Price
4.65mm	6mm	36mm	74mm	**AX8250381**	Price
4.7mm	6mm	36mm	74mm	**AX8250383**	Price
4.75mm	6mm	36mm	74mm	**AX8250385**	Price
4.8mm	6mm	44mm	82mm	**AX8250387**	Price
4.9mm	6mm	44mm	82mm	**AX8250389**	Price
5mm	6mm	44mm	82mm	**AX8250391**	Price
5.1mm	6mm	44mm	82mm	**AX8250393**	Price
5.2mm	6mm	44mm	82mm	**AX8250395**	Price
5.25mm	6mm	44mm	82mm	**AX8250397**	Price
5.3mm	6mm	44mm	82mm	**AX8250399**	Price

Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
5.4mm	6mm	44mm	82mm	**AX8250401**	Price
5.5mm	6mm	44mm	82mm	**AX8250403**	Price
5.55mm	6mm	44mm	82mm	**AX8250405**	Price
5.6mm	6mm	44mm	82mm	**AX8250407**	Price
5.65mm	6mm	44mm	82mm	**AX8250409**	Price
5.7mm	6mm	44mm	82mm	**AX8250411**	Price
5.75mm	6mm	44mm	82mm	**AX8250413**	Price
5.8mm	6mm	44mm	82mm	**AX8250415**	Price
5.9mm	6mm	44mm	82mm	**AX8250417**	Price
6mm	6mm	44mm	82mm	**AX8250419**	Price
6.1mm	8mm	53mm	91mm	**AX8250421**	Price
6.2mm	8mm	53mm	91mm	**AX8250423**	Price
6.3mm	8mm	53mm	91mm	**AX8250425**	Price
6.4mm	8mm	53mm	91mm	**AX8250427**	Price
6.5mm	8mm	53mm	91mm	**AX8250429**	Price
6.55mm	8mm	53mm	91mm	**AX8250431**	Price
6.6mm	8mm	53mm	91mm	**AX8250433**	Price
6.65mm	8mm	53mm	91mm	**AX8250435**	Price
6.7mm	8mm	53mm	91mm	**AX8250437**	Price
6.8mm	8mm	53mm	91mm	**AX8250439**	Price
6.9mm	8mm	53mm	91mm	**AX8250441**	Price
7mm	8mm	53mm	91mm	**AX8250443**	Price
7.1mm	8mm	53mm	91mm	**AX8250445**	Price
7.2mm	8mm	53mm	91mm	**AX8250447**	Price
7.3mm	8mm	53mm	91mm	**AX8250449**	Price
7.35mm	8mm	53mm	91mm	**AX8250451**	Price
7.4mm	8mm	53mm	91mm	**AX8250453**	Price
7.5mm	8mm	53mm	91mm	**AX8250455**	Price
7.6mm	8mm	53mm	91mm	**AX8250457**	Price
7.65mm	8mm	53mm	91mm	**AX8250459**	Price
7.7mm	8mm	53mm	91mm	**AX8250461**	Price
7.8mm	8mm	53mm	91mm	**AX8250463**	Price
7.9mm	8mm	53mm	91mm	**AX8250465**	Price
8mm	8mm	53mm	91mm	**AX8250467**	Price
8.1mm	10mm	61mm	103mm	**AX8250469**	Price
8.2mm	10mm	61mm	103mm	**AX8250471**	Price
8.3mm	10mm	61mm	103mm	**AX8250473**	Price
8.4mm	10mm	61mm	103mm	**AX8250475**	Price
8.5mm	10mm	61mm	103mm	**AX8250477**	Price
8.6mm	10mm	61mm	103mm	**AX8250479**	Price
8.7mm	10mm	61mm	103mm	**AX8250481**	Price
8.8mm	10mm	61mm	103mm	**AX8250483**	Price
8.9mm	10mm	61mm	103mm	**AX8250485**	Price
9mm	10mm	61mm	103mm	**AX8250487**	Price
9.1mm	10mm	61mm	103mm	**AX8250489**	Price
9.2mm	10mm	61mm	103mm	**AX8250491**	Price
9.3mm	10mm	61mm	103mm	**AX8250493**	Price
9.4mm	10mm	61mm	103mm	**AX8250495**	Price
9.5mm	10mm	61mm	103mm	**AX8250497**	Price

Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
9.6mm	10mm	61mm	103mm	**AX8250499**	Price
9.65mm	10mm	61mm	103mm	**AX8250501**	Price
9.7mm	10mm	61mm	103mm	**AX8250503**	Price
9.75mm	10mm	61mm	103mm	**AX8250505**	Price
9.8mm	10mm	61mm	103mm	**AX8250507**	Price
9.9mm	10mm	61mm	103mm	**AX8250509**	Price
10mm	10mm	61mm	103mm	**AX8250511**	Price
10.1mm	12mm	71mm	118mm	**AX8250513**	Price
10.2mm	12mm	71mm	118mm	**AX8250515**	Price
10.3mm	12mm	71mm	118mm	**AX8250517**	Price
10.4mm	12mm	71mm	118mm	**AX8250519**	Price
10.5mm	12mm	71mm	118mm	**AX8250521**	Price
10.6mm	12mm	71mm	118mm	**AX8250523**	Price
10.7mm	12mm	71mm	118mm	**AX8250525**	Price
10.8mm	12mm	71mm	118mm	**AX8250527**	Price
10.9mm	12mm	71mm	118mm	**AX8250529**	Price
11mm	12mm	71mm	118mm	**AX8250531**	Price
11.1mm	12mm	71mm	118mm	**AX8250533**	Price
11.2mm	12mm	71mm	118mm	**AX8250535**	Price
11.3mm	12mm	71mm	118mm	**AX8250537**	Price
11.4mm	12mm	71mm	118mm	**AX8250539**	Price
11.5mm	12mm	71mm	118mm	**AX8250541**	Price
11.6mm	12mm	71mm	118mm	**AX8250543**	Price
11.7mm	12mm	71mm	118mm	**AX8250545**	Price
11.8mm	12mm	71mm	118mm	**AX8250547**	Price
11.9mm	12mm	71mm	118mm	**AX8250549**	Price
12mm	12mm	71mm	118mm	**AX8250551**	Price
12.1mm	14mm	77mm	124mm	**AX8250553**	Price
12.2mm	14mm	77mm	124mm	**AX8250555**	Price
12.3mm	14mm	77mm	124mm	**AX8250557**	Price
12.4mm	14mm	77mm	124mm	**AX8250559**	Price
12.5mm	14mm	77mm	124mm	**AX8250561**	Price
12.6mm	14mm	77mm	124mm	**AX8250563**	Price
12.7mm	14mm	77mm	124mm	**AX8250565**	Price
12.8mm	14mm	77mm	124mm	**AX8250567**	Price
12.9mm	14mm	77mm	124mm	**AX8250569**	Price
13mm	14mm	77mm	124mm	**AX8250571**	Price
13.5mm	14mm	77mm	124mm	**AX8250573**	Price
14mm	14mm	77mm	124mm	**AX8250575**	Price
14.5mm	16mm	83mm	133mm	**AX8250577**	Price
15mm	16mm	83mm	133mm	**AX8250579**	Price
15.5mm	16mm	83mm	133mm	**AX8250581**	Price
16mm	16mm	83mm	133mm	**AX8250583**	Price
16.5mm	18mm	93mm	143mm	**AX8250585**	Price
17mm	18mm	93mm	143mm	**AX8250587**	Price
17.5mm	18mm	93mm	143mm	**AX8250589**	Price
18mm	18mm	93mm	143mm	**AX8250591**	Price
19mm	20mm	101mm	153mm	**AX8250593**	Price
20mm	20mm	101mm	153mm	**AX8250595**	Price

PCT Coolant Thru Pilot Drills

Solid Carbide • 5D Length

- 140° Point
- 30° Helix
- AlTiN coated
- Ideal for aluminum, cast materials and non-ferrous materials
- PCT Cutters List #PXC

New!



Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	6mm	28mm	66mm	**CW8165050**	Price
9/64	6mm	28mm	66mm	**CW8165075**	Price
5/32	6mm	36mm	74mm	**CW8165100**	Price
11/64	6mm	36mm	74mm	**CW8165125**	Price
3/16	6mm	44mm	82mm	**CW8165155**	Price
13/64	6mm	44mm	82mm	**CW8165180**	Price
7/32	6mm	44mm	82mm	**CW8165210**	Price
15/64	6mm	44mm	82mm	**CW8165235**	Price
1/4	8mm	53mm	91mm	**CW8165260**	Price

Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
17/64	8mm	53mm	91mm	**CW8165285**	Price
9/32	8mm	53mm	91mm	**CW8165310**	Price
19/64	8mm	53mm	91mm	**CW8165335**	Price
5/16	8mm	53mm	91mm	**CW8165355**	Price
21/64	10mm	61mm	103mm	**CW8165380**	Price
11/32	10mm	61mm	103mm	**CW8165405**	Price
23/64	10mm	61mm	103mm	**CW8165420**	Price
3/8	10mm	61mm	103mm	**CW8165440**	Price

High Performance Carbide Drills • Coolant Thru

5xD Length • 142° Point • ALtima® Coated

- ALtima® (AlTiN) coated for extended tool life
- Drills can be reconditioned and recoated
- 30° Helix angle
- Recommended for a broad cross section of materials at increased feed rates
- M A Ford Series #2XDCR



Size (in./mm)	Shank Dia.	Flute Length (in./mm)	OAL (in./mm)	Order No.	Price
#30	5/32	1.2600	3.1500	**AX2702592**	Price
1/8	1/8	1.1250	3.0000	**AX2702586**	Price
5/32	5/32	1.2600	3.1500	**AX2702608**	Price
11/64	3/16	1.5000	3.2300	**AX2702614**	Price
3/16	3/16	1.5000	3.2300	**AX2702620**	Price
7/32	15/64	1.5800	3.2300	**AX2702640**	Price
1/4	1/4	1.7400	3.3000	**AX2702664**	Price
17/64	5/16	1.8900	3.5800	**AX2702674**	Price
9/32	5/16	1.8900	3.5800	**AX2702682**	Price
19/64	5/16	1.8900	3.5800	**AX2702690**	Price
5/16	5/16	1.8900	3.5800	**AX2702698**	Price
21/64	25/64	2.1700	4.0600	**AX2702708**	Price
11/32	25/64	2.1700	4.0600	**AX2702712**	Price
23/64	25/64	2.1700	4.0600	**AX2702720**	Price
3/8	25/64	2.1700	4.0600	**AX2702730**	Price
25/64	25/64	2.1700	4.0600	**AX2702736**	Price
13/32	15/32	2.3600	4.7200	**AX2702742**	Price
27/64	15/32	2.3600	4.7200	**AX2702746**	Price
7/16	15/32	2.6000	4.7200	**AX2702750**	Price
15/32	15/32	2.6000	4.7200	**AX2702758**	Price
31/64	1/2	2.8300	4.7500	**AX2702764**	Price
1/2	1/2	2.8300	4.7500	**AX2702768**	Price
33/64	35/64	3.0300	5.2800	**AX2702774**	Price
17/32	35/64	3.0300	5.2800	**AX2702775**	Price

Size (in./mm)	Shank Dia.	Flute Length (in./mm)	OAL (in./mm)	Order No.	Price
9/16	5/8	3.1500	5.5100	**AX2702784**	Price
5/8	5/8	3.2300	5.7500	**AX2702798**	Price
21/32	45/64	3.5400	6.2200	**AX2702806**	Price
11/16	45/64	3.7400	6.2200	**AX2702810**	Price
3/4	3/4	3.9400	6.3000	**AX2702818**	Price
3mm	3mm	24mm	75mm	**AX2702582**	Price
3.5mm	4mm	32mm	80mm	**AX2702600**	Price
4mm	4mm	32mm	80mm	**AX2702610**	Price
4.5mm	5mm	38mm	82mm	**AX2702616**	Price
5mm	5mm	38mm	82mm	**AX2702626**	Price
6mm	6mm	40mm	82mm	**AX2702652**	Price
7mm	8mm	48mm	91mm	**AX2702680**	Price
8mm	8mm	48mm	91mm	**AX2702700**	Price
9mm	10mm	55mm	103mm	**AX2702718**	Price
10mm	10mm	55mm	103mm	**AX2702738**	Price
11mm	12mm	60mm	120mm	**AX2702748**	Price
12mm	12mm	66mm	120mm	**AX2702760**	Price
14mm	14mm	77mm	134mm	**AX2702782**	Price
16mm	16mm	82mm	146mm	**AX2702800**	Price
18mm	18mm	95mm	158mm	**AX2702814**	Price
20mm	20mm	100mm	160mm	**AX2702828**	Price
F	5/16	1.8900	3.5800	**AX2702670**	Price
Q	25/64	2.1700	4.0600	**AX2702709**	Price

Solid Carbide High Performance Drills

5xD • Coolant Thru

- 140° Drill point
- 30° Helix
- AlTiN coated
- M A Ford Series #HPDCR



- Fractional Size					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	4mm	28mm	66mm	**AX2921629**	Price
5/32	4mm	36mm	74mm	**AX2921632**	Price
3/16	6mm	44mm	82mm	**AX2921634**	Price
13/64	6mm	44mm	82mm	**AX2921635**	Price
7/32	6mm	44mm	82mm	**AX2921636**	Price
1/4	8mm	53mm	91mm	**AX2921637**	Price
9/32	8mm	53mm	91mm	**AX2921639**	Price
5/16	8mm	53mm	91mm	**AX2921640**	Price
3/8	10mm	61mm	103mm	**AX2921641**	Price
7/16	12mm	71mm	118mm	**AX2921642**	Price
1/2	14mm	77mm	124mm	**AX2921643**	Price
5/8	16mm	83mm	133mm	**AX2921644**	Price

- Metric Size					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
3mm	3mm	28mm	66mm	**AX2921700**	Price
3.1mm	4mm	28mm	66mm	**AX2921701**	Price
3.2mm	4mm	28mm	66mm	**AX2921702**	Price
3.3mm	4mm	28mm	66mm	**AX2921703**	Price
3.4mm	4mm	28mm	66mm	**AX2921704**	Price
3.5mm	4mm	28mm	66mm	**AX2921705**	Price
3.6mm	4mm	28mm	66mm	**AX2921706**	Price
3.7mm	4mm	28mm	66mm	**AX2921707**	Price
3.8mm	4mm	36mm	74mm	**AX2921708**	Price
3.9mm	4mm	36mm	74mm	**AX2921709**	Price
4mm	4mm	36mm	74mm	**AX2921710**	Price
4.1mm	6mm	36mm	74mm	**AX2921711**	Price
4.2mm	6mm	36mm	74mm	**AX2921712**	Price
4.3mm	6mm	36mm	74mm	**AX2921713**	Price
4.4mm	6mm	36mm	74mm	**AX2921714**	Price
4.5mm	6mm	36mm	74mm	**AX2921715**	Price
4.6mm	6mm	36mm	74mm	**AX2921716**	Price
4.7mm	6mm	36mm	74mm	**AX2921717**	Price
4.8mm	6mm	44mm	82mm	**AX2921718**	Price
5mm	6mm	44mm	82mm	**AX2921720**	Price
5.1mm	6mm	44mm	82mm	**AX2921721**	Price

- Metric Size					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
5.2mm	6mm	44mm	82mm	**AX2921722**	Price
5.5mm	6mm	44mm	82mm	**AX2921725**	Price
5.6mm	6mm	44mm	82mm	**AX2921726**	Price
5.8mm	6mm	44mm	82mm	**AX2921728**	Price
6mm	6mm	44mm	82mm	**AX2921730**	Price
6.1mm	8mm	53mm	91mm	**AX2921731**	Price
6.5mm	8mm	53mm	91mm	**AX2921735**	Price
6.6mm	8mm	53mm	91mm	**AX2921736**	Price
6.7mm	8mm	53mm	91mm	**AX2921737**	Price
6.8mm	8mm	53mm	91mm	**AX2921738**	Price
6.9mm	8mm	53mm	91mm	**AX2921739**	Price
7mm	8mm	53mm	91mm	**AX2921740**	Price
7.3mm	8mm	53mm	91mm	**AX2921743**	Price
7.5mm	8mm	53mm	91mm	**AX2921745**	Price
7.6mm	8mm	53mm	91mm	**AX2921746**	Price
7.8mm	8mm	53mm	91mm	**AX2921748**	Price
8mm	8mm	53mm	91mm	**AX2921750**	Price
8.1mm	10mm	61mm	103mm	**AX2921751**	Price
8.2mm	10mm	61mm	103mm	**AX2921752**	Price
8.4mm	10mm	61mm	103mm	**AX2921754**	Price
8.5mm	10mm	61mm	103mm	**AX2921755**	Price
8.6mm	10mm	61mm	103mm	**AX2921756**	Price
8.8mm	10mm	61mm	103mm	**AX2921758**	Price
9mm	10mm	61mm	103mm	**AX2921760**	Price
9.1mm	10mm	61mm	103mm	**AX2921761**	Price
9.5mm	10mm	61mm	103mm	**AX2921765**	Price
9.8mm	10mm	61mm	103mm	**AX2921768**	Price
10mm	10mm	61mm	103mm	**AX2921770**	Price
10.1mm	12mm	71mm	118mm	**AX2921771**	Price
10.2mm	12mm	71mm	118mm	**AX2921772**	Price
10.3mm	12mm	71mm	118mm	**AX2921773**	Price
10.5mm	12mm	71mm	118mm	**AX2921775**	Price
10.7mm	12mm	71mm	118mm	**AX2921777**	Price
10.8mm	12mm	71mm	118mm	**AX2921778**	Price
11mm	12mm	71mm	118mm	**AX2921780**	Price
11.5mm	12mm	71mm	118mm	**AX2921785**	Price
12mm	12mm	71mm	118mm	**AX2921790**	Price
12.5mm	14mm	77mm	124mm	**AX2921793**	Price
13.5mm	14mm	77mm	124mm	**AX2921800**	Price
14mm	14mm	77mm	124mm	**AX2921810**	Price
15mm	16mm	83mm	133mm	**AX2921823**	Price
16mm	16mm	83mm	133mm	**AX2921830**	Price

HY-PRO® CARB Drill • Coolant Thru



Solid Carbide • 5xD Length • TiAlN Coated

- High performance carbide
- Recommended for cast iron, carbon steels, alloy steels, die steels and hardened steels up to 35 HrC
- OSG List #HP255

Size (in.)	Decimal Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	.1248	6mm	28mm	66mm	**TP45HP2551248**	Price
3/16	.1874	6mm	44mm	82mm	**TP45HP2551874**	Price
7/32	.2189	6mm	44mm	82mm	**TP45HP2552189**	Price
1/4, E	.2500	8mm	53mm	91mm	**TP45HP2552500**	Price
9/32	.2811	8mm	53mm	91mm	**TP45HP2552811**	Price
5/16	.3126	8mm	53mm	91mm	**TP45HP2553126**	Price
11/32	.3437	10mm	61mm	103mm	**TP45HP2553437**	Price

Size (in.)	Decimal Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Price
3/8	.3748	10mm	61mm	103mm	**TP45HP2553748**	Price
13/32	.4063	12mm	71mm	118mm	**TP45HP2554063**	Price
7/16	.4374	12mm	71mm	118mm	**TP45HP2554374**	Price
1/2	.5000	14mm	77mm	124mm	**TP45HP2555000**	Price
5/8	.6248	16mm	83mm	133mm	**TP45HP2556248**	Price
3/4	.7500	20mm	101mm	153mm	**TP45HP2557500**	Price

Cyclone™ XD Solid Carbide HP Coolant Thru Drills



5xD • Double Margin • Uncoated

- 30° Helix
- 140° / 142° Drill Point
- Designed for drilling in a broad range of materials
- M.A. Ford List #CDACR

Drill Dia.	Decimal Equiv.	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
#31	.1200	6mm	1.102	2.600	**AX2807301**	Price
1/8	.1250	6mm	1.102	2.600	**AX2807303**	Price
#30	.1285	6mm	1.102	2.600	**AX2807305**	Price
#29	.1360	6mm	1.102	2.600	**AX2807308**	Price
9/64	.1406	6mm	1.102	2.600	**AX2807310**	Price
#27	.1440	6mm	1.102	2.600	**AX2807312**	Price
#26	.1470	6mm	1.102	2.600	**AX2807314**	Price
#25	.1495	6mm	1.417	2.910	**AX2807315**	Price
#24	.1520	6mm	1.417	2.910	**AX2807317**	Price
5/32	.1562	6mm	1.417	2.910	**AX2807319**	Price
#21	.1590	6mm	1.417	2.910	**AX2807321**	Price
#20	.1610	6mm	1.417	2.910	**AX2807322**	Price
#19	.1660	6mm	1.417	2.910	**AX2807325**	Price
11/64	.1719	6mm	1.417	2.910	**AX2807327**	Price
#17	.1730	6mm	1.417	2.910	**AX2807328**	Price
#16	.1770	6mm	1.417	2.910	**AX2807330**	Price
3/16	.1875	6mm	1.732	3.230	**AX2807334**	Price
#11	.1910	6mm	1.732	3.230	**AX2807337**	Price
#10	.1935	6mm	1.732	3.230	**AX2807339**	Price
13/64	.2031	6mm	1.732	3.230	**AX2807342**	Price
7/32	.2187	6mm	1.732	3.230	**AX2807347**	Price
A	.2340	6mm	1.732	3.230	**AX2807352**	Price

Drill Dia.	Decimal Equiv.	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/4	.2500	8mm	2.087	3.580	**AX2807357**	Price
F	.2570	8mm	2.087	3.580	**AX2807360**	Price
17/64	.2656	8mm	2.087	3.580	**AX2807362**	Price
I	.2720	8mm	2.087	3.580	**AX2807365**	Price
9/32	.2812	8mm	2.087	3.580	**AX2807367**	Price
19/64	.2969	8mm	2.087	3.580	**AX2807372**	Price
5/16	.3125	8mm	2.087	3.580	**AX2807374**	Price
21/64	.3281	10mm	2.402	4.060	**AX2807377**	Price
Q	.3320	10mm	2.402	4.060	**AX2807379**	Price
11/32	.3438	10mm	2.402	4.060	**AX2807381**	Price
23/64	.3594	10mm	2.402	4.060	**AX2807383**	Price
U	.3680	10mm	2.402	4.060	**AX2807384**	Price
3/8	.3750	10mm	2.402	4.060	**AX2807386**	Price
25/64	.3906	10mm	2.795	4.650	**AX2807388**	Price
13/32	.4062	12mm	2.795	4.650	**AX2807391**	Price
27/64	.4219	12mm	2.795	4.650	**AX2807395**	Price
7/16	.4375	12mm	2.795	4.650	**AX2807397**	Price
29/64	.4531	12mm	2.795	4.650	**AX2807399**	Price
15/32	.4688	12mm	2.795	4.650	**AX2807400**	Price
31/64	.4844	14mm	3.031	4.880	**AX2807402**	Price
1/2	.5000	14mm	3.031	4.880	**AX2807404**	Price

DORMER ForceX High Performance Solid Carbide Drills • Coolant Thru

Solid Carbide • 5xD Length • TiAlN Coated

- Multi-application solid carbide drills, excellent for drilling a wide range of materials, including steel, stainless steel, cast iron & more
- 140º Point provides excellent centering capabilities
- Common shanks to cut collet cost
- Manufactured to DIN 6537
- Dormer List #R453



Type - Fractional Size					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
1/4	8mm	53mm	91mm	**PT390623602**	Price
17/64	8mm	53mm	91mm	**PT390623701**	Price
9/32	8mm	53mm	91mm	**PT390623985**	Price
19/64	8mm	53mm	91mm	**PT390623725**	Price
5/16	8mm	53mm	91mm	**PT390623923**	Price
21/64	10mm	61mm	103mm	**PT390623749**	Price
11/32	10mm	61mm	103mm	**PT390623633**	Price
3/8	10mm	61mm	103mm	**PT390623824**	Price
13/32	12mm	70mm	118mm	**PT390623657**	Price
7/16	12mm	70mm	118mm	**PT390623954**	Price
15/32	12mm	70mm	118mm	**PT390623671**	Price
31/64	14mm	76mm	124mm	**PT390623831**	Price
1/2	14mm	76mm	124mm	**PT390623596**	Price
17/32	14mm	76mm	124mm	**PT390623695**	Price

Type - Metric Size					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
5mm	6mm	44mm	82mm	**PT390614112**	Price
5.5mm	6mm	44mm	82mm	**PT390614136**	Price
6mm	6mm	44mm	82mm	**PT390614143**	Price
6.5mm	8mm	53mm	91mm	**PT390614150**	Price

Type - Metric Size					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
7mm	8mm	53mm	91mm	**PT390614174**	Price
7.5mm	8mm	53mm	91mm	**PT390614181**	Price
8mm	8mm	53mm	91mm	**PT390614198**	Price
8.5mm	10mm	61mm	103mm	**PT390614204**	Price
9mm	10mm	61mm	103mm	**PT390614228**	Price
9.5mm	10mm	61mm	103mm	**PT390614235**	Price
10mm	10mm	61mm	103mm	**PT390613870**	Price
10.5mm	12mm	70mm	118mm	**PT390613900**	Price
11mm	12mm	70mm	118mm	**PT390613917**	Price
11.5mm	12mm	70mm	118mm	**PT390613931**	Price
12mm	12mm	70mm	118mm	**PT390613948**	Price
12.5mm	14mm	76mm	124mm	**PT390613962**	Price
13mm	14mm	76mm	124mm	**PT390613979**	Price
13.5mm	14mm	76mm	124mm	**PT390613986**	Price
14mm	14mm	76mm	124mm	**PT390613993**	Price
14.5mm	16mm	82mm	133mm	**PT390614013**	Price
15mm	16mm	82mm	133mm	**PT390614020**	Price
15.5mm	16mm	82mm	133mm	**PT390614037**	Price
16mm	16mm	82mm	133mm	**PT390614044**	Price

EXOPRO® Mega Muscle® Carbide Drills

Coolant Thru • 5xD Standard Length • WD-1 Coated

- High performance carbide
- Up to 200 IPM in steel and 670 IPM in cast iron
- 3 Flute
- Recommended for cast iron, carbon steels, alloy steels and 400 series stainless steels
- OSG List #5610



Size (in.)	Decimal Equiv.	Shank Dia. (in.)	Flute Length	OAL	Order No.	Price
13/64	.2031	15/64	42mm	100mm	**TP51561020311**	Price
7/32	.2189	15/64	45mm	100mm	**TP51561021911**	Price
15/64	.2343	15/64	48mm	100mm	**TP51561023411**	Price
1/4, E	.2500	1/4	52mm	109mm	**TP51561025011**	Price
17/64	.2657	17/64	55mm	109mm	**TP51561026611**	Price
9/32, K	.2811	9/32	58mm	118mm	**TP51561028111**	Price
19/64	.2969	5/16	60mm	118mm	**TP51561029711**	Price
5/16	.3126	5/16	64mm	118mm	**TP51561031311**	Price
21/64	.3280	11/32	67mm	128mm	**TP51561032811**	Price
11/32	.3437	11/32	70mm	128mm	**TP51561034411**	Price
23/64	.3594	25/64	73mm	136mm	**TP51561035911**	Price
3/8	.3752	3/8	76mm	136mm	**TP51561037511**	Price
25/64	.3906	25/64	80mm	136mm	**TP51561039111**	Price
13/32	.4063	27/64	83mm	146mm	**TP51561040611**	Price
27/64	.4220	27/64	86mm	146mm	**TP51561042211**	Price
7/16	.4374	7/16	89mm	156mm	**TP51561043711**	Price
29/64	.4531	15/32	92mm	156mm	**TP51561045311**	Price
15/32	.4689	15/32	96mm	156mm	**TP51561046911**	Price
31/64	.4843	1/2	99mm	167mm	**TP51561048411**	Price
1/2	.5000	1/2	102mm	167mm	**TP51561050011**	Price
17/32	.5311	35/64	108mm	176mm	**TP51561053111**	Price
9/16	.5626	9/16	115mm	185mm	**TP51561056311**	Price
5/8	.6252	5/8	128mm	193mm	**TP51561062511**	Price
21/32	.6563	21/32	134mm	201mm	**TP51561065611**	Price
3/4	.7500	3/4	154mm	217mm	**TP51561075011**	Price

High Performance Carbide Drills • Coolant Thru



7xD Length • 142° Point • ALtima® Coated

- ALtima® (AlTiN) coated for extended tool life
- Drills can be reconditioned and recoated
- 30° Helix angle
- Recommended for a broad cross section of materials at increased feed rates
- M A Ford Series #2XDCL

Size (in./ mm)	Shank Size (in./mm)	Flute Length (in./mm)	OAL (in./mm)	Order No.	Price
1/8	1/8	1-1/2	3-1/2	**AX2702834**	Price
5/32	5/32	1-3/4	3-5/8	**AX2702854**	Price
11/64	3/16	1-3/4	3-15/16	**AX2702860**	Price
3/16	3/16	1-3/4	3-15/16	**AX2702866**	Price
13/64	15/64	2	3-15/16	**AX2702876**	Price
7/32	15/64	2	3-15/16	**AX2702886**	Price
1/4	1/4	2-1/4	4-5/16	**AX2702910**	Price
17/64	5/16	2-3/8	4-5/16	**AX2702920**	Price
9/32	5/16	2-3/4	4-5/8	**AX2702928**	Price
5/16	5/16	2-3/4	4-5/8	**AX2702944**	Price
11/32	25/64	3-5/32	5	**AX2702958**	Price
23/64	25/64	3-21/64	5-5/16	**AX2702966**	Price
3/8	25/64	3-21/64	5-5/16	**AX2702976**	Price
13/32	15/32	3-5/8	5-7/8	**AX2702984**	Price
27/64	15/32	3-5/8	5-7/8	**AX2702987**	Price
7/16	15/32	4	6-7/64	**AX2702989**	Price
1/2	1/2	4-5/16	6-19/64	**AX2702996**	Price
3mm	3mm	33mm	81mm	**AX2702830**	Price
4mm	4mm	44mm	92mm	**AX2702856**	Price
5mm	5mm	45mm	100mm	**AX2702872**	Price
6mm	6mm	51mm	100mm	**AX2702898**	Price
7mm	8mm	60mm	109mm	**AX2702926**	Price
8mm	8mm	70mm	118mm	**AX2702946**	Price
9mm	10mm	80mm	127mm	**AX2702964**	Price
10mm	10mm	85mm	136mm	**AX2702982**	Price
12mm	12mm	102mm	155mm	**AX2702994**	Price

Cyclone™ XD Solid Carbide HP Coolant Thru Drills

5xD • Altima® Plus Coated

- 30° Helix
- 140° Drill Point
- Designed for drilling in a broad range of materials
- M.A. Ford List #CXDCR



Drill Dia.	Decimal Equiv.	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
#31	.1200	1/8	1.1020	2.6000	**AX2806927**	Price
1/8	.1250	1/8	1.1020	2.6000	**AX2806929**	Price
#30	.1285	5/32	1.1020	2.6000	**AX2806931**	Price
#29	.1360	5/32	1.1020	2.6000	**AX2806934**	Price
9/64	.1406	5/32	1.1020	2.6000	**AX2806936**	Price
#24	.1520	5/32	1.4170	2.9100	**AX2806940**	Price
5/32	.1562	5/32	1.4170	2.9100	**AX2806942**	Price
#21	.1590	3/16	1.4170	2.9100	**AX2806944**	Price
11/64	.1719	3/16	1.4170	2.9100	**AX2806948**	Price
3/16	.1875	3/16	1.7320	3.2300	**AX2806953**	Price
13/64	.2031	1/4	1.7320	3.2300	**AX2806958**	Price
7/32	.2187	1/4	1.7320	3.2300	**AX2806963**	Price
#2	.2210	1/4	1.7320	3.2300	**AX2806964**	Price
15/64	.2343	1/4	1.7320	3.2300	**AX2806968**	Price
C	.2420	1/4	2.0870	3.5800	**AX2806971**	Price
D	.2460	1/4	2.0870	3.5800	**AX2806973**	Price
1/4	.2500	1/4	2.0870	3.5800	**AX2806975**	Price
F	.2570	5/16	2.0870	3.5800	**AX2806978**	Price
G	.2610	5/16	2.0870	3.5800	**AX2806980**	Price
17/64	.2656	5/16	2.0870	3.5800	**AX2806982**	Price
9/32	.2812	5/16	2.0870	3.5800	**AX2806987**	Price
19/64	.2969	5/16	2.0870	3.5800	**AX2806992**	Price
5/16	.3125	5/16	2.0870	3.5800	**AX2806997**	Price
21/64	.3281	3/8	2.4020	4.0600	**AX2807002**	Price
Q	.3320	3/8	2.4020	4.0600	**AX2807004**	Price
11/32	.3438	3/8	2.4020	4.0600	**AX2807008**	Price
23/64	.3594	3/8	2.4020	4.0600	**AX2807013**	Price
3/8	.3750	3/8	2.4020	4.0600	**AX2807019**	Price
25/64	.3906	7/16	2.4020	4.0600	**AX2807024**	Price
13/32	.4062	7/16	2.7950	4.6500	**AX2807029**	Price
27/64	.4219	7/16	2.7950	4.6500	**AX2807034**	Price
7/16	.4375	7/16	2.7950	4.6500	**AX2807039**	Price
15/32	.4688	1/2	2.7950	4.6500	**AX2807048**	Price
31/64	.4844	1/2	3.0310	4.8800	**AX2807051**	Price
1/2	.5000	1/2	3.0310	4.8800	**AX2807053**	Price
33/64	.5156	9/16	3.0310	4.8800	**AX2807058**	Price
17/32	.5312	9/16	3.0310	4.8800	**AX2807059**	Price
35/64	.5469	9/16	3.0310	4.8800	**AX2807062**	Price
9/16	.5625	9/16	3.2680	5.2400	**AX2807064**	Price
19/32	.5938	5/8	3.2680	5.2400	**AX2807068**	Price
5/8	.6250	5/8	3.2680	5.2400	**AX2807072**	Price
21/32	.6562	11/16	3.6610	5.6300	**AX2807077**	Price
11/16	.6875	11/16	3.6610	5.6300	**AX2807079**	Price
3/4	.7500	3/4	3.9760	6.0240	**AX2807083**	Price

RAPIDKUT® 8xD High Performance Solid Carbide Coolant Thru Drills

- For use in a wide variety of materials including carbon steel, alloy steel, stainless steel, hardened steel, cast iron, aluminum alloys, titanium and others
- 140° Point and 30° helix high performance geometry allows for high penetration rates
- These high penetration drills provide accurate hole sizing as well as near burnished holes
- TiAlN coated



- Fractional					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
1/4	1/4	3	4-1/2	**AX8172005**	Price
17/64	5/16	3	4-1/2	**AX8172010**	Price
9/32	5/16	3	4-1/2	**AX8172015**	Price
19/64	5/16	3	4-1/2	**AX8172020**	Price
5/16	5/16	3	4-1/2	**AX8172025**	Price
21/64	3/8	3-3/4	5-3/4	**AX8172030**	Price
11/32	3/8	3-3/4	5-3/4	**AX8172035**	Price
23/64	3/8	3-3/4	5-3/4	**AX8172040**	Price
3/8	3/8	3-3/4	5-3/4	**AX8172045**	Price
25/64	7/16	4-1/2	6-1/2	**AX8172050**	Price
13/32	7/16	4-1/2	6-1/2	**AX8172055**	Price
7/16	7/16	4-1/2	6-1/2	**AX8172060**	Price
15/32	1/2	5-1/4	7	**AX8172065**	Price
1/2	1/2	5-1/4	7	**AX8172070**	Price
17/32	9/16	5-1/4	7	**AX8172075**	Price
9/16	9/16	5-1/4	7	**AX8172080**	Price
19/32	5/8	6	8	**AX8172085**	Price
5/8	5/8	6	8	**AX8172090**	Price

- Metric					
Size	Shank Dia.	Flute Length	OAL	Order No.	Price
3mm	6mm	34mm	72mm	**AX8182003**	Price
3.3mm	6mm	34mm	72mm	**AX8182004**	Price
3.5mm	6mm	34mm	72mm	**AX8182005**	Price
3.8mm	6mm	43mm	81mm	**AX8182008**	Price
4mm	6mm	43mm	81mm	**AX8182010**	Price
4.2mm	6mm	43mm	81mm	**AX8182012**	Price
4.3mm	6mm	43mm	81mm	**AX8182013**	Price
4.5mm	6mm	43mm	81mm	**AX8182015**	Price
4.8mm	6mm	57mm	95mm	**AX8182018**	Price
5mm	6mm	57mm	95mm	**AX8182020**	Price
5.1mm	6mm	57mm	95mm	**AX8182021**	Price
5.3mm	6mm	57mm	95mm	**AX8182023**	Price
5.5mm	6mm	57mm	95mm	**AX8182025**	Price
6mm	6mm	57mm	95mm	**AX8182030**	Price
6.1mm	8mm	76mm	114mm	**AX8182031**	Price
6.5mm	8mm	76mm	114mm	**AX8182035**	Price
6.6mm	8mm	76mm	114mm	**AX8182036**	Price
6.8mm	8mm	76mm	114mm	**AX8182038**	Price
6.9mm	8mm	76mm	114mm	**AX8182039**	Price
7mm	8mm	76mm	114mm	**AX8182040**	Price
7.5mm	8mm	76mm	114mm	**AX8182045**	Price
8mm	8mm	76mm	114mm	**AX8182050**	Price
8.5mm	10mm	95mm	142mm	**AX8182055**	Price
9mm	10mm	95mm	142mm	**AX8182060**	Price
9.2mm	10mm	95mm	142mm	**AX8182062**	Price
9.5mm	10mm	95mm	142mm	**AX8182065**	Price
10mm	10mm	95mm	142mm	**AX8182070**	Price
10.5mm	12mm	114mm	162mm	**AX8182075**	Price
11mm	12mm	114mm	162mm	**AX8182080**	Price
11.5mm	12mm	114mm	162mm	**AX8182085**	Price
12mm	12mm	114mm	162mm	**AX8182090**	Price
12.5mm	14mm	133mm	178mm	**AX8182095**	Price
13mm	14mm	133mm	178mm	**AX8182100**	Price
13.5mm	14mm	133mm	178mm	**AX8182105**	Price
14mm	14mm	133mm	178mm	**AX8182110**	Price
14.5mm	16mm	152mm	203mm	**AX8182115**	Price
15mm	16mm	152mm	203mm	**AX8182120**	Price
15.5mm	16mm	152mm	203mm	**AX8182125**	Price

Cyclone™ XD Solid Carbide HP Coolant Thru Drills

8xD • Altima® Plus Coated

- 30° Helix
- 140° Drill Point
- Designed for drilling in a broad range of materials
- M.A. Ford List #CXDCL



Drill Dia.	Decimal Equiv.	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
#31	.1200	4mm	44mm	92mm	**AX2807227**	Price
1/8	.1250	4mm	44mm	92mm	**AX2807099**	Price
#30	.1285	4mm	44mm	92mm	**AX2807102**	Price
#29	.1360	4mm	44mm	92mm	**AX2807105**	Price
9/64	.1406	4mm	44mm	92mm	**AX2807107**	Price
#25	.1496	4mm	44mm	92mm	**AX2807110**	Price
#24	.1520	4mm	44mm	92mm	**AX2807111**	Price
5/32	.1562	4mm	44mm	92mm	**AX2807113**	Price
#21	.1590	5mm	45mm	100mm	**AX2807115**	Price
11/64	.1719	5mm	45mm	100mm	**AX2807119**	Price
3/16	.1875	5mm	45mm	100mm	**AX2807125**	Price
13/64	.2031	6mm	57mm	100mm	**AX2807130**	Price
7/32	.2187	6mm	57mm	100mm	**AX2807135**	Price
#2	.2210	6mm	57mm	100mm	**AX2807137**	Price
15/64	.2343	6mm	57mm	100mm	**AX2807141**	Price
C	.2420	8mm	76mm	118mm	**AX2807144**	Price
D	.2460	8mm	76mm	118mm	**AX2807146**	Price
1/4	.2500	8mm	76mm	118mm	**AX2807148**	Price
F	.2570	8mm	76mm	118mm	**AX2807151**	Price
G	.2610	8mm	76mm	118mm	**AX2807153**	Price
17/64	.2656	8mm	76mm	118mm	**AX2807155**	Price
9/32	.2812	8mm	76mm	118mm	**AX2807160**	Price
19/64	.2969	8mm	76mm	118mm	**AX2807165**	Price
5/16	.3125	8mm	76mm	118mm	**AX2807170**	Price
21/64	.3281	10mm	87mm	139mm	**AX2807175**	Price
Q	.3320	10mm	87mm	139mm	**AX2807177**	Price
11/32	.3438	10mm	87mm	139mm	**AX2807181**	Price
23/64	.3594	10mm	95mm	139mm	**AX2807186**	Price
U	.3680	10mm	95mm	139mm	**AX2807190**	Price
3/8	.3750	10mm	95mm	139mm	**AX2807193**	Price
W	.3858	10mm	95mm	139mm	**AX2807196**	Price
25/64	.3906	10mm	95mm	139mm	**AX2807198**	Price
13/32	.4062	12mm	106mm	155mm	**AX2807203**	Price
27/64	.4219	12mm	106mm	155mm	**AX2807208**	Price
7/16	.4375	12mm	114mm	163mm	**AX2807213**	Price
15/32	.4688	12mm	114mm	163mm	**AX2807222**	Price
31/64	.4844	14mm	133mm	182mm	**AX2807224**	Price
1/2	.5000	14mm	133mm	182mm	**AX2807225**	Price
33/64	.5156	14mm	133mm	182mm	**AX2807233**	Price
17/32	.5312	14mm	133mm	182mm	**AX2807234**	Price
35/64	.5469	14mm	133mm	182mm	**AX2807237**	Price
9/16	.5625	16mm	152mm	204mm	**AX2807239**	Price
19/32	.5938	16mm	152mm	204mm	**AX2807243**	Price
5/8	.6250	16mm	152mm	204mm	**AX2807247**	Price

Coolant Thru High Performance Drills

New!



Solid Carbide • 3xD to 12xD Lengths

- 140° Point
- Double margin
- 30° Helix
- Variantra ® Supral (TiAlCN) coated
- Ideal for carbon steels, alloy steels, gray cast iron, ductile iron and other alloys
- PCT Cutters List #DXC

Length - 3xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/2	14mm	60mm	107mm	**CW8170555**	Price
1/4	8mm	34mm	79mm	**CW8170225**	Price
1/8	6mm	20mm	62mm	**CW8170025**	Price
11/32	10mm	47mm	89mm	**CW8170370**	Price
11/64	6mm	24mm	66mm	**CW8170100**	Price
13/32	12mm	55mm	102mm	**CW8170450**	Price
13/64	6mm	28mm	66mm	**CW8170145**	Price
15/32	12mm	55mm	102mm	**CW8170515**	Price
15/64	6mm	28mm	66mm	**CW8170200**	Price
17/64	8mm	34mm	79mm	**CW8170250**	Price
19/64	8mm	41mm	79mm	**CW8170300**	Price
21/64	10mm	47mm	89mm	**CW8170345**	Price
23/64	10mm	47mm	89mm	**CW8170385**	Price
25/64	10mm	47mm	89mm	**CW8170425**	Price
27/64	12mm	55mm	102mm	**CW8170465**	Price
29/64	12mm	55mm	102mm	**CW8170500**	Price
3/16	6mm	28mm	66mm	**CW8170125**	Price
3/8	10mm	47mm	89mm	**CW8170405**	Price
31/64	14mm	60mm	107mm	**CW8170540**	Price
5/16	8mm	41mm	79mm	**CW8170320**	Price
5/32	6mm	24mm	66mm	**CW8170075**	Price
7/16	12mm	55mm	102mm	**CW8170485**	Price
7/32	6mm	28mm	66mm	**CW8170175**	Price
9/32	8mm	41mm	79mm	**CW8170275**	Price
9/64	6mm	20mm	62mm	**CW8170050**	Price

Length - 5xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/4	8mm	53mm	91mm	**CW8170880**	Price
1/8	6mm	28mm	66mm	**CW8170680**	Price
11/32	10mm	61mm	103mm	**CW8171025**	Price
11/64	6mm	36mm	74mm	**CW8170755**	Price
13/32	12mm	71mm	118mm	**CW8171105**	Price
13/64	6mm	44mm	82mm	**CW8170800**	Price
15/32	12mm	71mm	118mm	**CW8171170**	Price
15/64	6mm	44mm	82mm	**CW8170855**	Price
17/64	8mm	53mm	91mm	**CW8170905**	Price
19/64	8mm	53mm	91mm	**CW8170955**	Price
21/64	10mm	61mm	103mm	**CW8171000**	Price
23/64	10mm	61mm	103mm	**CW8171040**	Price
25/64	10mm	61mm	103mm	**CW8171080**	Price
27/64	12mm	71mm	118mm	**CW8171120**	Price
29/64	12mm	71mm	118mm	**CW8171155**	Price
3/16	6mm	44mm	82mm	**CW8170780**	Price
3/8	10mm	61mm	103mm	**CW8171060**	Price
5/16	8mm	53mm	91mm	**CW8170975**	Price
5/32	6mm	36mm	74mm	**CW8170730**	Price
7/16	12mm	71mm	118mm	**CW8171140**	Price
7/32	6mm	44mm	82mm	**CW8170830**	Price
9/32	8mm	53mm	91mm	**CW8170930**	Price
9/64	6mm	28mm	66mm	**CW8170705**	Price

Length - 8xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/4	8mm	76mm	114mm	**CW8171535**	Price
1/8	6mm	34mm	72mm	**CW8171335**	Price
11/32	10mm	95mm	142mm	**CW8171680**	Price
11/64	6mm	43mm	81mm	**CW8171410**	Price
13/32	12mm	114mm	162mm	**CW8171760**	Price
13/64	6mm	57mm	95mm	**CW8171455**	Price
15/32	12mm	114mm	162mm	**CW8171825**	Price
15/64	6mm	57mm	95mm	**CW8171510**	Price
17/64	8mm	76mm	114mm	**CW8171560**	Price
19/64	8mm	76mm	114mm	**CW8171610**	Price
21/64	10mm	95mm	142mm	**CW8171655**	Price
23/64	10mm	95mm	142mm	**CW8171695**	Price
25/64	10mm	95mm	142mm	**CW8171735**	Price
27/64	12mm	114mm	162mm	**CW8171775**	Price
29/64	12mm	114mm	162mm	**CW8171810**	Price
3/16	6mm	57mm	95mm	**CW8171435**	Price
3/8	10mm	95mm	142mm	**CW8171715**	Price
5/16	8mm	76mm	114mm	**CW8171630**	Price
5/32	6mm	43mm	81mm	**CW8171385**	Price
7/16	12mm	114mm	162mm	**CW8171795**	Price
7/32	6mm	57mm	95mm	**CW8171485**	Price
9/32	8mm	76mm	114mm	**CW8171585**	Price
9/64	6mm	34mm	72mm	**CW8171360**	Price

Length - 12xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/4	8mm	108mm	146mm	**CW8172190**	Price
1/8	6mm	54mm	92mm	**CW8171990**	Price
11/32	10mm	120mm	162mm	**CW8172325**	Price
11/64	6mm	64mm	102mm	**CW8172065**	Price
13/32	12mm	156mm	204mm	**CW8172405**	Price
13/64	6mm	78mm	116mm	**CW8172110**	Price
15/32	12mm	156mm	204mm	**CW8172470**	Price
15/64	6mm	78mm	116mm	**CW8172165**	Price
17/64	8mm	108mm	146mm	**CW8172215**	Price
19/64	8mm	108mm	146mm	**CW8172255**	Price
21/64	10mm	120mm	162mm	**CW8172300**	Price
23/64	10mm	120mm	162mm	**CW8172340**	Price
25/64	10mm	120mm	162mm	**CW8172380**	Price
27/64	12mm	156mm	204mm	**CW8172420**	Price
29/64	12mm	156mm	204mm	**CW8172455**	Price
3/16	6mm	78mm	116mm	**CW8172090**	Price
3/8	10mm	120mm	162mm	**CW8172360**	Price
5/16	8mm	108mm	146mm	**CW8172275**	Price
5/32	6mm	64mm	102mm	**CW8172040**	Price
7/16	12mm	156mm	204mm	**CW8172440**	Price
7/32	6mm	78mm	116mm	**CW8172140**	Price
9/32	8mm	108mm	146mm	**CW8172240**	Price
9/64	6mm	54mm	92mm	**CW8172015**	Price

Coolant Thru High Performance Drills

Solid Carbide • 3xD to 50xD Lengths

- 135° Point
- 15° Helix
- ZRCN coated
- Triple guided margin
- Ideal for aluminum, cast materials and non-ferrous materials
- PCT Cutters List #AXC



New!

Length - 3xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	6mm	20mm	62mm	**CW8144510**	Price
9/64	6mm	20mm	62mm	**CW8144535**	Price
5/32	6mm	24mm	66mm	**CW8144560**	Price
11/64	6mm	24mm	66mm	**CW8144585**	Price
3/16	6mm	28mm	66mm	**CW8144615**	Price
13/64	6mm	28mm	66mm	**CW8144630**	Price
7/32	6mm	28mm	66mm	**CW8144655**	Price
15/64	6mm	28mm	66mm	**CW8144680**	Price
1/4	8mm	34mm	79mm	**CW8144705**	Price
17/64	8mm	34mm	79mm	**CW8144730**	Price
9/32	8mm	41mm	79mm	**CW8144755**	Price
19/64	8mm	41mm	79mm	**CW8144775**	Price
5/16	8mm	41mm	79mm	**CW8142515**	Price
21/64	10mm	47mm	89mm	**CW8144815**	Price
11/32	10mm	47mm	89mm	**CW8144840**	Price
23/64	10mm	47mm	89mm	**CW8144855**	Price
3/8	10mm	47mm	89mm	**CW8144875**	Price
25/64	10mm	47mm	89mm	**CW8144895**	Price
13/32	12mm	55mm	102mm	**CW8144915**	Price
27/64	12mm	55mm	102mm	**CW8144930**	Price
7/16	12mm	55mm	102mm	**CW8144946**	Price
29/64	12mm	55mm	102mm	**CW8144960**	Price
15/32	12mm	55mm	102mm	**CW8144975**	Price

Length - 5xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	6mm	28mm	66mm	**CW8145130**	Price
9/64	6mm	28mm	66mm	**CW8145155**	Price
5/32	6mm	36mm	74mm	**CW8145180**	Price
11/64	6mm	36mm	74mm	**CW8145200**	Price
3/16	6mm	44mm	82mm	**CW8145230**	Price
13/64	6mm	44mm	82mm	**CW8145250**	Price
7/32	6mm	44mm	82mm	**CW8145280**	Price
15/64	6mm	44mm	82mm	**CW8145305**	Price
1/4	8mm	53mm	91mm	**CW8142530**	Price
17/64	8mm	53mm	91mm	**CW8142535**	Price
9/32	8mm	53mm	91mm	**CW8145370**	Price
19/64	8mm	53mm	91mm	**CW8145395**	Price
5/16	8mm	53mm	91mm	**CW8145415**	Price
21/64	10mm	61mm	103mm	**CW8145440**	Price
11/32	10mm	61mm	103mm	**CW8145460**	Price
23/64	10mm	61mm	103mm	**CW8145470**	Price
3/8	10mm	61mm	103mm	**CW8145490**	Price
25/64	10mm	61mm	103mm	**CW8145510**	Price
13/32	12mm	71mm	118mm	**CW8145535**	Price
27/64	12mm	71mm	118mm	**CW8145550**	Price
7/16	12mm	71mm	118mm	**CW8145561**	Price
29/64	12mm	71mm	118mm	**CW8145575**	Price
15/32	12mm	71mm	118mm	**CW8145590**	Price

Length - 8xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	6mm	34mm	72mm	**CW8145740**	Price
9/64	6mm	34mm	72mm	**CW8145765**	Price
5/32	6mm	43mm	81mm	**CW8145790**	Price
11/64	6mm	43mm	81mm	**CW8145815**	Price
3/16	6mm	57mm	95mm	**CW8145845**	Price
13/64	6mm	57mm	95mm	**CW8145860**	Price

Length - 8xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
7/32	6mm	57mm	95mm	**CW8142565**	Price
15/64	6mm	57mm	95mm	**CW8145905**	Price
1/4	8mm	76mm	114mm	**CW8145930**	Price
17/64	8mm	76mm	114mm	**CW8145950**	Price
9/32	8mm	76mm	114mm	**CW8145965**	Price
19/64	8mm	76mm	114mm	**CW8145985**	Price
5/16	8mm	76mm	114mm	**CW8146005**	Price
21/64	10mm	95mm	142mm	**CW8146025**	Price
11/32	10mm	95mm	142mm	**CW8146050**	Price
23/64	10mm	95mm	142mm	**CW8146060**	Price
3/8	10mm	95mm	142mm	**CW8146075**	Price
25/64	10mm	95mm	142mm	**CW8142715**	Price
13/32	12mm	114mm	162mm	**CW8146110**	Price
27/64	12mm	114mm	162mm	**CW8142485**	Price
7/16	12mm	114mm	162mm	**CW8146131**	Price
29/64	12mm	114mm	162mm	**CW8146145**	Price
15/32	12mm	114mm	162mm	**CW8146160**	Price

Length - 12xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
9/64	6mm	54mm	92mm	**CW8146340**	Price
5/32	6mm	64mm	102mm	**CW8146365**	Price
11/64	6mm	64mm	102mm	**CW8146390**	Price
3/16	6mm	78mm	116mm	**CW8142595**	Price
13/64	6mm	78mm	116mm	**CW8146440**	Price
7/32	6mm	78mm	116mm	**CW8146470**	Price
15/64	6mm	78mm	116mm	**CW8146495**	Price
1/4	8mm	108mm	146mm	**CW8146520**	Price
17/64	8mm	108mm	146mm	**CW8146545**	Price
9/32	8mm	108mm	146mm	**CW8146565**	Price
19/64	8mm	108mm	146mm	**CW8146590**	Price
5/16	8mm	108mm	146mm	**CW8146610**	Price
21/64	10mm	120mm	162mm	**CW8146635**	Price
11/32	10mm	120mm	162mm	**CW8146660**	Price
23/64	10mm	120mm	162mm	**CW8146670**	Price
3/8	10mm	120mm	162mm	**CW8142610**	Price
25/64	10mm	120mm	162mm	**CW8146705**	Price
13/32	12mm	156mm	204mm	**CW8146730**	Price
27/64	12mm	156mm	204mm	**CW8146745**	Price
7/16	12mm	156mm	204mm	**CW8146756**	Price
29/64	12mm	156mm	204mm	**CW8146770**	Price
15/32	12mm	156mm	204mm	**CW8146785**	Price

Length - 16xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	6mm	60mm	100mm	**CW8146930**	Price
9/64	6mm	75mm	115mm	**CW8146950**	Price
5/32	6mm	75mm	115mm	**CW8146960**	Price
11/64	6mm	90mm	130mm	**CW8146975**	Price
3/16	6mm	90mm	130mm	**CW8146990**	Price
13/64	6mm	108mm	150mm	**CW8147005**	Price
7/32	6mm	108mm	150mm	**CW8147015**	Price
15/64	6mm	108mm	150mm	**CW8147025**	Price
1/4	8mm	125mm	165mm	**CW8142630**	Price
17/64	8mm	125mm	165mm	**CW8147035**	Price
9/32	8mm	140mm	180mm	**CW8147050**	Price
19/64	8mm	140mm	180mm	**CW8147060**	Price
5/16	8mm	140mm	180mm	**CW8147070**	Price
21/64	10mm	160mm	205mm	**CW8147080**	Price
11/32	10mm	160mm	205mm	**CW8147090**	Price
23/64	10mm	180mm	225mm	**CW8147105**	Price
3/8	10mm	180mm	225mm	**CW8147110**	Price
25/64	10mm	180mm	225mm	**CW8147120**	Price
13/32	12mm	190mm	240mm	**CW8147135**	Price
27/64	12mm	190mm	240mm	**CW8147140**	Price
7/16	12mm	215mm	265mm	**CW8147151**	Price

(continued to next page)

Coolant Thru High Performance Drills (cont.)

Solid Carbide • 3xD to 50xD Lengths

- 135° Point
- 15° Helix
- ZRCN coated
- Triple guided margin
- Ideal for aluminum, cast materials and non-ferrous materials
- PCT Cutters List #AXC



Length - 16xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
29/64	12mm	215mm	265mm	**CW8147160**	Price
15/32	12mm	215mm	265mm	**CW8147165**	Price

Length - 20xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	6mm	80mm	120mm	**CW8147295**	Price
9/64	6mm	90mm	130mm	**CW8147315**	Price
5/32	6mm	90mm	130mm	**CW8147325**	Price
11/64	6mm	110mm	160mm	**CW8147340**	Price
3/16	6mm	120mm	160mm	**CW8147355**	Price
13/64	6mm	140mm	185mm	**CW8147365**	Price
7/32	6mm	140mm	185mm	**CW8147375**	Price
15/64	6mm	140mm	185mm	**CW8147385**	Price
1/4	8mm	160mm	210mm	**CW8147390**	Price
17/64	8mm	160mm	210mm	**CW8147400**	Price
9/32	8mm	180mm	230mm	**CW8147415**	Price
19/64	8mm	180mm	230mm	**CW8147425**	Price
5/16	8mm	180mm	230mm	**CW8147435**	Price
21/64	10mm	195mm	260mm	**CW8147440**	Price
11/32	10mm	230mm	290mm	**CW8147450**	Price
23/64	10mm	230mm	290mm	**CW8147460**	Price
3/8	10mm	230mm	290mm	**CW8147465**	Price

Length - 25xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	6mm	98mm	135mm	**CW8147615**	Price
9/64	6mm	120mm	160mm	**CW8147635**	Price
5/32	6mm	120mm	160mm	**CW8147645**	Price
11/64	6mm	135mm	180mm	**CW8147660**	Price
3/16	6mm	135mm	180mm	**CW8147675**	Price
13/64	6mm	168mm	205mm	**CW8147685**	Price
7/32	6mm	168mm	205mm	**CW8147695**	Price
15/64	6mm	168mm	205mm	**CW8147705**	Price
1/4	8mm	200mm	240mm	**CW8147715**	Price
17/64	8mm	200mm	240mm	**CW8147725**	Price
9/32	8mm	220mm	260mm	**CW8147735**	Price
19/64	8mm	220mm	260mm	**CW8147745**	Price
5/16	8mm	220mm	260mm	**CW8147755**	Price

Length - 25xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
21/64	10mm	240mm	285mm	**CW8147765**	Price
11/32	10mm	268mm	310mm	**CW8147775**	Price
23/64	10mm	268mm	310mm	**CW8147790**	Price
3/8	10mm	268mm	310mm	**CW8147795**	Price

Length - 30xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	6mm	105mm	150mm	**CW8147865**	Price
9/64	6mm	135mm	185mm	**CW8147885**	Price
5/32	6mm	135mm	185mm	**CW8147895**	Price
11/64	6mm	165mm	215mm	**CW8147910**	Price
3/16	6mm	165mm	215mm	**CW8147920**	Price
13/64	6mm	180mm	230mm	**CW8147930**	Price
7/32	6mm	180mm	230mm	**CW8147940**	Price
15/64	6mm	180mm	230mm	**CW8147950**	Price
1/4	8mm	215mm	280mm	**CW8147960**	Price
17/64	8mm	230mm	280mm	**CW8147970**	Price
9/32	8mm	230mm	280mm	**CW8147985**	Price
19/64	8mm	265mm	315mm	**CW8147995**	Price
5/16	8mm	265mm	315mm	**CW8148005**	Price
11/32	10mm	350mm	400mm	**CW8148025**	Price
3/8	10mm	350mm	400mm	**CW8148045**	Price

Length - 40xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	6mm	140mm	190mm	**CW8148085**	Price
3/16	6mm	220mm	270mm	**CW8148125**	Price
7/32	6mm	240mm	290mm	**CW8148145**	Price
1/4	8mm	290mm	340mm	**CW8148165**	Price
9/32	8mm	320mm	370mm	**CW8148190**	Price
5/16	8mm	350mm	400mm	**CW8148210**	Price

Length - 50xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
3/16	6mm	275mm	320mm	**CW8148255**	Price
7/32	6mm	310mm	360mm	**CW8148275**	Price
1/4	6mm	340mm	385mm	**CW8148291**	Price

NACHI AQUA Drill EX Flat

Stub Length & Non-Coolant Thru
List No. L9611 • Solid Carbide

- One step drilling with minimum burrs
- 20° Helix
- AQUA EX coated
- True 180° flat point



Drill Dia. (in.)	Dec. Equiv.	Shank Dia.	LOC	OAL	Order No.	Price
1/8	.1250	6mm	15mm	50mm	**AC861455595**	Price
5/32	.1562	6mm	18mm	50mm	**AC861455600**	Price
9/32	.2183	6mm	33mm	70mm	**AC861455646**	Price
7/32	.2188	6mm	25mm	60mm	**AC861455623**	Price
1/4	.2500	6mm	30mm	70mm	**AC861455630**	Price
5/16	.3125	6mm	36mm	70mm	**AC861455652**	Price
21/64	.3281	8mm	39mm	80mm	**AC861455669**	Price
23/64	.3594	8mm	42mm	80mm	**AC861455675**	Price
3/8	.3750	8mm	43mm	80mm	**AC861455681**	Price

Drill Dia. (in.)	Dec. Equiv.	Shank Dia.	LOC	OAL	Order No.	Price
13/32	.4062	10mm	48mm	90mm	**AC861455698**	Price
7/16	.4375	10mm	51mm	90mm	**AC861455703**	Price
29/64	.4531	10mm	52mm	90mm	**AC861455710**	Price
15/32	.4688	10mm	54mm	90mm	**AC861455726**	Price
1/2	.5000	12mm	58mm	100mm	**AC861455732**	Price
9/16	.5625	12mm	64mm	105mm	**AC861455749**	Price
5/8	.6250	12mm	72mm	115mm	**AC861455755**	Price
11/16	.6875	16mm	79mm	125mm	**AC861455761**	Price
3/4	.7500	16mm	87mm	135mm	**AC861455778**	Price

Coolant Thru High Performance Drills

Solid Carbide • 16xD to 50xD Lengths

- 135° Point
- 30° Helix
- AlTiN coated
- Ideal for aluminum, cast materials
- PCT Cutters List #SXC

New!



Length - 16xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	6mm	60mm	100mm	**CW8167820**	Price
9/64	6mm	75mm	115mm	**CW8167840**	Price
5/32	6mm	75mm	115mm	**CW8167850**	Price
11/64	6mm	90mm	130mm	**CW8167865**	Price
3/16	6mm	90mm	130mm	**CW8167880**	Price
13/64	6mm	108mm	150mm	**CW8167895**	Price
7/32	6mm	108mm	150mm	**CW8167905**	Price
15/64	6mm	108mm	150mm	**CW8167915**	Price
1/4	8mm	125mm	165mm	**CW8167925**	Price
17/64	8mm	125mm	165mm	**CW8167935**	Price
9/32	8mm	140mm	180mm	**CW8167950**	Price
19/64	8mm	140mm	180mm	**CW8167960**	Price
5/16	8mm	140mm	180mm	**CW8167970**	Price
21/64	10mm	160mm	205mm	**CW8167980**	Price
11/32	10mm	160mm	205mm	**CW8167990**	Price
23/64	10mm	180mm	225mm	**CW8168005**	Price
3/8	10mm	180mm	225mm	**CW8168010**	Price
25/64	10mm	180mm	225mm	**CW8168020**	Price
13/32	12mm	190mm	240mm	**CW8168035**	Price
27/64	12mm	190mm	240mm	**CW8168040**	Price
7/16	12mm	215mm	265mm	**CW8168051**	Price
29/64	12mm	215mm	265mm	**CW8168060**	Price
15/32	12mm	215mm	265mm	**CW8168065**	Price

Length - 20xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	6mm	80mm	120mm	**CW8168195**	Price
9/64	6mm	90mm	130mm	**CW8168215**	Price
5/32	6mm	90mm	130mm	**CW8168225**	Price
11/64	6mm	110mm	160mm	**CW8168240**	Price
3/16	6mm	120mm	160mm	**CW8168255**	Price
13/64	6mm	140mm	185mm	**CW8168270**	Price
7/32	6mm	140mm	185mm	**CW8168280**	Price
15/64	6mm	140mm	185mm	**CW8168290**	Price
1/4	8mm	160mm	210mm	**CW8168300**	Price
17/64	8mm	160mm	210mm	**CW8168310**	Price
9/32	8mm	180mm	230mm	**CW8168325**	Price
19/64	8mm	180mm	230mm	**CW8168335**	Price
5/16	8mm	180mm	230mm	**CW8168345**	Price
21/64	10mm	195mm	260mm	**CW8168355**	Price
11/32	10mm	230mm	290mm	**CW8168365**	Price
23/64	10mm	230mm	290mm	**CW8168380**	Price
3/8	10mm	230mm	290mm	**CW8168385**	Price
25/64	10mm	230mm	290mm	**CW8168395**	Price
13/32	12mm	268mm	315mm	**CW8168410**	Price
27/64	12mm	268mm	315mm	**CW8168415**	Price
7/16	12mm	268mm	315mm	**CW8168426**	Price
29/64	12mm	268mm	315mm	**CW8168435**	Price
15/32	12mm	268mm	315mm	**CW8168440**	Price

Length - 25xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	6mm	98mm	135mm	**CW8168535**	Price
9/64	6mm	120mm	160mm	**CW8168550**	Price
5/32	6mm	120mm	160mm	**CW8168560**	Price
11/64	6mm	135mm	180mm	**CW8168575**	Price
3/16	6mm	135mm	180mm	**CW8168590**	Price
13/64	6mm	168mm	205mm	**CW8168600**	Price
7/32	6mm	168mm	205mm	**CW8168610**	Price
15/64	6mm	168mm	205mm	**CW8168620**	Price
1/4	8mm	200mm	240mm	**CW8168630**	Price
17/64	8mm	200mm	240mm	**CW8168640**	Price
9/32	8mm	220mm	260mm	**CW8168655**	Price
19/64	8mm	220mm	260mm	**CW8168665**	Price
5/16	8mm	220mm	260mm	**CW8168675**	Price
21/64	10mm	240mm	285mm	**CW8168685**	Price
11/32	10mm	268mm	310mm	**CW8168695**	Price
23/64	10mm	268mm	310mm	**CW8168710**	Price
3/8	10mm	268mm	310mm	**CW8168715**	Price

Length - 30xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	6mm	105mm	150mm	**CW8168790**	Price
9/64	6mm	135mm	185mm	**CW8168810**	Price
5/32	6mm	135mm	185mm	**CW8168820**	Price
11/64	6mm	165mm	215mm	**CW8168835**	Price
3/16	6mm	165mm	215mm	**CW8168845**	Price
13/64	6mm	180mm	230mm	**CW8168855**	Price
7/32	6mm	180mm	230mm	**CW8168865**	Price
15/64	6mm	180mm	230mm	**CW8168875**	Price
1/4	8mm	215mm	280mm	**CW8168885**	Price
17/64	8mm	230mm	280mm	**CW8168895**	Price
9/32	8mm	230mm	280mm	**CW8168910**	Price
19/64	8mm	265mm	315mm	**CW8168920**	Price
5/16	8mm	265mm	315mm	**CW8168930**	Price
21/64	10mm	275mm	325mm	**CW8168940**	Price
11/32	10mm	300mm	350mm	**CW8168950**	Price
23/64	10mm	300mm	350mm	**CW8168965**	Price
3/8	10mm	315mm	365mm	**CW8168970**	Price

Length - 40xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/8	6mm	140mm	190mm	**CW8169010**	Price
5/32	6mm	180mm	230mm	**CW8169025**	Price
3/16	6mm	220mm	270mm	**CW8169050**	Price
7/32	6mm	240mm	290mm	**CW8169070**	Price
1/4	8mm	290mm	340mm	**CW8169090**	Price
9/32	8mm	320mm	370mm	**CW8169115**	Price
5/16	8mm	350mm	400mm	**CW8169135**	Price

Length - 50xD					
Drill Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
3/16	6mm	275mm	320mm	**CW8169180**	Price
7/32	6mm	310mm	360mm	**CW8169200**	Price
1/4	6mm	340mm	385mm	**CW8169216**	Price

NACHI AQUA Drill EX Flat

New!

List No. L9610 • Solid Carbide

- **One step drilling with minimum burrs**
- 20° Helix
- AQUA EX coated
- Stub length
- Non-Coolant thru
- True 180° flat point



Drill Dia.	Dec. Equiv.	Shank Dia.	Flute Length	OAL	Order No.	Price
0.2mm	.0079	3mm	0.68mm	47mm	**AC860751974**	Price
0.3mm	.0118	3mm	0.99mm	47mm	**AC860751968**	Price
0.4mm	.0157	3mm	1.32mm	47mm	**AC860751951**	Price
0.5mm	.0197	3mm	1.65mm	47mm	**AC860737198**	Price
0.6mm	.0236	3mm	1.98mm	47mm	**AC860737181**	Price
0.7mm	.0276	3mm	2.31mm	47mm	**AC860737175**	Price
0.8mm	.0315	3mm	2.64mm	47mm	**AC860737169**	Price
0.9mm	.0354	3mm	2.97mm	47mm	**AC860737152**	Price
1.0mm	.0394	3mm	3.3mm	47mm	**AC86715148**	Price
1.1mm	.0433	3mm	3.5mm	47mm	**AC860715154**	Price
1.2mm	.0472	3mm	3.9mm	47mm	**AC860715160**	Price
1.3mm	.0512	3mm	4.2mm	47mm	**AC860715177**	Price
1.4mm	.0551	3mm	4.6mm	47mm	**AC860715183**	Price
1.5mm	.0591	3mm	4.9mm	50mm	**AC860715190**	Price
1.6mm	.0630	3mm	5.2mm	50mm	**AC86715205**	Price
1.7mm	.0669	3mm	5.5mm	50mm	**AC860715211**	Price
1.8mm	.0709	3mm	5.8mm	50mm	**AC860715228**	Price
1.9mm	.0748	3mm	6.2mm	50mm	**AC860715234**	Price
2.0mm	.0787	4mm	9mm	50mm	**AC860711354**	Price
2.1mm	.0827	4mm	11mm	50mm	**AC86713180**	Price
2.2mm	.0866	4mm	11mm	50mm	**AC860711360**	Price
2.3mm	.0906	4mm	11mm	50mm	**AC860713197**	Price
2.4mm	.0945	4mm	12mm	50mm	**AC86713202**	Price
2.5mm	.0984	4mm	12mm	50mm	**AC86711377**	Price
2.6mm	.1024	4mm	12mm	50mm	**AC86713219**	Price
2.7mm	.1063	4mm	14mm	50mm	**AC860713225**	Price
2.8mm	.1102	4mm	14mm	50mm	**AC86713231**	Price
2.9mm	.1142	4mm	14mm	50mm	**AC860713248**	Price
3.0mm	.1181	6mm	14mm	50mm	**AC860709920**	Price
3.1mm	.1220	6mm	15mm	50mm	**AC86713254**	Price
3.2mm	.1260	6mm	15mm	50mm	**AC86713260**	Price
3.3mm	.1299	6mm	15mm	50mm	**AC860710839**	Price
3.4mm	.1339	6mm	16mm	50mm	**AC860713277**	Price
3.5mm	.1378	6mm	16mm	50mm	**AC86709936**	Price
3.6mm	.1417	6mm	16mm	50mm	**AC86713283**	Price
3.7mm	.1457	6mm	18mm	50mm	**AC860713290**	Price
3.8mm	.1496	6mm	18mm	50mm	**AC860713305**	Price
3.9mm	.1535	6mm	18mm	50mm	**AC860713311**	Price
4.0mm	.1575	6mm	18mm	50mm	**AC860709942**	Price
4.1mm	.1614	6mm	19mm	60mm	**AC860713328**	Price
4.2mm	.1654	6mm	19mm	60mm	**AC860710845**	Price
4.3mm	.1693	6mm	19mm	60mm	**AC860713334**	Price
4.4mm	.1732	6mm	21mm	60mm	**AC86713340**	Price
4.5mm	.1772	6mm	21mm	60mm	**AC860709959**	Price
4.6mm	.1811	6mm	21mm	60mm	**AC860713357**	Price
4.7mm	.1850	6mm	22mm	60mm	**AC860713363**	Price
4.8mm	.1890	6mm	22mm	60mm	**AC860713370**	Price
4.9mm	.1929	6mm	22mm	60mm	**AC860713386**	Price
5.0mm	.1969	6mm	23mm	60mm	**AC86709965**	Price
5.1mm	.2008	6mm	24mm	60mm	**AC860713392**	Price
5.2mm	.2047	6mm	24mm	60mm	**AC860713408**	Price
5.3mm	.2087	6mm	24mm	60mm	**AC860711390**	Price
5.4mm	.2126	6mm	25mm	60mm	**AC860713414**	Price
5.5mm	.2165	6mm	25mm	60mm	**AC860709971**	Price
5.6mm	.2205	6mm	25mm	60mm	**AC860713420**	Price
5.7mm	.2244	6mm	27mm	60mm	**AC860713437**	Price
5.8mm	.2283	6mm	27mm	60mm	**AC860713443**	Price
5.9mm	.2323	6mm	27mm	60mm	**AC860713450**	Price
6.0mm	.2362	6mm	27mm	60mm	**AC86709988**	Price
6.1mm	.2402	6mm	28mm	70mm	**AC860713466**	Price
6.2mm	.2441	6mm	28mm	70mm	**AC860713472**	Price
6.3mm	.2480	6mm	28mm	70mm	**AC860713489**	Price
6.4mm	.2520	6mm	30mm	70mm	**AC860713495**	Price
6.5mm	.2559	6mm	30mm	70mm	**AC860709994**	Price
6.6mm	.2598	6mm	30mm	70mm	**AC860713500**	Price
6.7mm	.2638	6mm	31mm	70mm	**AC860713517**	Price
6.8mm	.2677	6mm	31mm	70mm	**AC860710851**	Price
6.9mm	.2717	6mm	31mm	70mm	**AC860713523**	Price
7.0mm	.2756	6mm	32mm	70mm	**AC860710008**	Price
7.1mm	.2795	6mm	33mm	70mm	**AC860713530**	Price
7.2mm	.2835	6mm	33mm	70mm	**AC860713546**	Price
7.3mm	.2874	6mm	33mm	70mm	**AC860713552**	Price
7.4mm	.2913	6mm	34mm	70mm	**AC860713569**	Price
7.5mm	.2953	6mm	34mm	70mm	**AC860710014**	Price
7.6mm	.2992	6mm	34mm	70mm	**AC860713575**	Price
7.7mm	.3031	6mm	36mm	70mm	**AC860713581**	Price
7.8mm	.3071	6mm	36mm	70mm	**AC860713598**	Price
7.9mm	.3110	6mm	36mm	70mm	**AC860713603**	Price
8.0mm	.3150	8mm	36mm	70mm	**AC860710020**	Price
8.1mm	.3189	8mm	37mm	80mm	**AC860713610**	Price
8.2mm	.3228	8mm	37mm	80mm	**AC860713626**	Price
8.3mm	.3268	8mm	37mm	80mm	**AC860713632**	Price
8.4mm	.3307	8mm	39mm	80mm	**AC86713649**	Price
8.5mm	.3346	8mm	39mm	80mm	**AC860710037**	Price
8.6mm	.3386	8mm	39mm	80mm	**AC860713655**	Price
8.7mm	.3425	8mm	40mm	80mm	**AC860713661**	Price
8.8mm	.3465	8mm	40mm	80mm	**AC860711405**	Price
8.9mm	.3504	8mm	40mm	80mm	**AC860713678**	Price
9.0mm	.3543	8mm	41mm	80mm	**AC860710043**	Price
9.1mm	.3583	8mm	42mm	80mm	**AC860713684**	Price
9.2mm	.3622	8mm	43mm	80mm	**AC860713690**	Price
9.3mm	.3661	8mm	43mm	80mm	**AC860713706**	Price
9.4mm	.3701	8mm	43mm	80mm	**AC860713712**	Price
9.5mm	.3740	8mm	43mm	80mm	**AC860710050**	Price
9.6mm	.3780	8mm	43mm	80mm	**AC860713729**	Price
9.7mm	.3819	8mm	45mm	80mm	**AC86713735**	Price
9.8mm	.3858	8mm	45mm	80mm	**AC860713741**	Price
9.9mm	.3898	8mm	45mm	80mm	**AC860713758**	Price
10.0mm	.3937	10mm	45mm	80mm	**AC860710066**	Price
10.1mm	.3976	10mm	46mm	90mm	**AC860713764**	Price
10.2mm	.4016	10mm	46mm	90mm	**AC860713770**	Price
10.3mm	.4055	10mm	46mm	90mm	**AC860710868**	Price
10.4mm	.4094	10mm	48mm	90mm	**AC860713787**	Price
10.5mm	.4134	10mm	48mm	90mm	**AC860710072**	Price
10.6mm	.4173	10mm	48mm	90mm	**AC860713793**	Price
10.7mm	.4213	10mm	49mm	90mm	**AC860713809**	Price
10.8mm	.4252	10mm	49mm	90mm	**AC860711411**	Price
10.9mm	.4291	10mm	49mm	90mm	**AC860713815**	Price
11.0mm	.4331	10mm	50mm	90mm	**AC860710089**	Price
11.1mm	.4370	10mm	51mm	90mm	**AC860713821**	Price
11.2mm	.4409	10mm	51mm	90mm	**AC860713838**	Price
11.3mm	.4449	10mm	51mm	90mm	**AC860713844**	Price
11.4mm	.4488	10mm	52mm	90mm	**AC860713850**	Price
11.5mm	.4528	10mm	52mm	90mm	**AC860710095**	Price
11.6mm	.4567	10mm	52mm	90mm	**AC860713867**	Price
11.7mm	.4606	10mm	54mm	90mm	**AC860713873**	Price
11.8mm	.4646	10mm	54mm	90mm	**AC860713880**	Price
11.9mm	.4685	10mm	54mm	90mm	**AC860713896**	Price
12.0mm	.4724	12mm	54mm	90mm	**AC860710100**	Price
12.1mm	.4764	12mm	54mm	100mm	**AC860724619**	Price
12.2mm	.4803	12mm	54mm	100mm	**AC860724625**	Price
12.3mm	.4843	12mm	54mm	100mm	**AC860724631**	Price
12.4mm	.4882	12mm	54mm	100mm	**AC860724648**	Price
12.5mm	.4921	12mm	57mm	100mm	**AC860710117**	Price
12.6mm	.4961	12mm	57mm	100mm	**AC860724654**	Price
12.7mm	.5000	12mm	57mm	100mm	**AC860724660**	Price
12.8mm	.5039	12mm	57mm	100mm	**AC860724677**	Price
12.9mm	.5079	12mm	57mm	100mm	**AC860724683**	Price
13.0mm	.5118	12mm	59mm	100mm	**AC860710123**	Price
13.1mm	.5157	12mm	59mm	100mm	**AC860724690**	Price
13.2mm	.5197	12mm	59mm	100mm	**AC860724705**	Price
13.3mm	.5236	12mm	59mm	100mm	**AC860724711**	Price
13.4mm	.5276	12mm	59mm	100mm	**AC860724728**	Price
13.5mm	.5315	12mm	61mm	100mm	**AC860710130**	Price
13.6mm	.5354	12mm	61mm	100mm	**AC860724734**	Price
13.7mm	.5394	12mm	61mm	100mm	**AC860724740**	Price
13.8mm	.5433	12mm	61mm	100mm	**AC860724757**	Price
13.9mm	.5472	12mm	61mm	100mm	**AC860724763**	Price
14.0mm	.5512	12mm	63mm	100mm	**AC860710146**	Price
14.1mm	.5551	12mm	63mm	100mm	**AC860724770**	Price
14.2mm	.5591	12mm	63mm	100mm	**AC860724786**	Price
14.3mm	.5630	12mm	63mm	100mm	**AC860724792**	Price
14.4mm	.5669	12mm	63mm	100mm	**AC860724808**	Price
14.5mm	.5709	12mm	66mm	105mm	**AC860710152**	Price
14.6mm	.5748	12mm	66mm	105mm	**AC860724814**	Price
14.7mm	.5787	12mm	66mm	105mm	**AC860724820**	Price
14.8mm	.5827	12mm	66mm	105mm	**AC860724837**	Price
14.9mm	.5866	12mm	66mm	105mm	**AC860724843**	Price
15.0mm	.5906	12mm	68mm	105mm	**AC860710169**	Price
15.1mm	.5945	12mm	68mm	105mm	**AC860724850**	Price
15.2mm	.5984	12mm	68mm	105mm	**AC860724866**	Price
15.3mm	.6024	12mm	68mm	105mm	**AC860724872**	Price
15.4mm	.6063	12mm	68mm	105mm	**AC860724889**	Price
15.5mm	.6102	12mm	70mm	115mm	**AC860710175**	Price
15.6mm	.6142	12mm	70mm	115mm	**AC860724895**	Price
15.7mm	.6181	12mm	70mm	115mm	**AC860724900**	Price
15.8mm	.6220	12mm	70mm	115mm	**AC860724917**	Price
15.9mm	.6260	12mm	70mm	115mm	**AC860724923**	Price
16.0mm	.6299	16mm	72mm	115mm	**AC860710181**	Price
16.5mm	.6496	16mm	75mm	115mm	**AC860710198**	Price
17.0mm	.6693	16mm	77mm	125mm	**AC860710203**	Price
17.5mm	.6890	16mm	79mm	125mm	**AC860710210**	Price
18.0mm	.7087	16mm	81mm	125mm	**AC860710226**	Price
18.5mm	.7283	16mm	84mm	135mm	**AC860710232**	Price
19.0mm	.7480	16mm	86mm	135mm	**AC860710249**	Price
19.5mm	.7677	16mm	88mm	145mm	**AC860710255**	Price
20.0mm	.7874	20mm	90mm	145mm	**AC860710261**	Price

Universal Spade Drill Blades

130° Standard & Flat Bottom CPM-4 High Speed Steel

- Universal style and high performance spade drills use the same holders
- Universal style spade drills and holders are interchangeable with most other manufacturer's products
- Flat bottom drills are used as a secondary finishing tool for bottoming and finishing flat bottom holes







Series - A
Locating Area (B) (in.) - 3/4 Thickness (C) (in.) - 3/16 Ref. Length (D) (in.) - 1-5/32

	HSS CPM-4 Uncoated 130°		HSS CPM-4 Uncoated Flat Bottom	
Size (in.)	Order No.	Price	Order No.	Price
31/32	BA50102140031	Price	-	-
1	BA50102140100	Price	BA53104140100	Price
1-1/32	BA50102140101	Price	-	-
1-1/16	BA50102140102	Price	BA53104140102	Price
1-3/32	BA50102140103	Price	-	-
1-1/8	BA50102140104	Price	BA53104140104	Price
1-5/32	BA50102140105	Price	-	-
1-3/16	BA50102140106	Price	BA53104140106	Price
1-7/32	BA50102140107	Price	-	-
1-1/4	BA50102140108	Price	BA53104140108	Price
1-9/32	BA50102140109	Price	-	-
1-5/16	BA50102140110	Price	-	-
1-3/8	BA50102140112	Price	-	-

Series - AA
Locating Area (B) (in.) - 13/16 Thickness (C) (in.) - 1/4 Ref. Length (D) (in.) - 1-5/32

	HSS CPM-4 Uncoated Flat Bottom	
Size (in.)	Order No.	Price
1-1/8	BA53104040104	Price

Series - B
Locating Area (B) (in.) - 1-1/16 Thickness (C) (in.) - 9/32 Ref. Length (D) (in.) - 1-13/32

	HSS CPM-4 Uncoated 130°		HSS CPM-4 Uncoated Flat Bottom	
Size (in.)	Order No.	Price	Order No.	Price
1-1/4	BA50102240108	Price	BA53104240108	Price
1-9/32	BA50102240109	Price	-	-
1-5/16	BA50102240110	Price	BA53104240110	Price
1-11/32	BA50102240111	Price	-	-
1-3/8	BA50102240112	Price	BA53104240112	Price
1-7/16	BA50102240114	Price	BA53104240114	Price
1-15/32	BA50102240115	Price	-	-
1-1/2	BA50102240116	Price	BA53104240116	Price
1-9/16	BA50102240118	Price	-	-
1-5/8	BA50102240120	Price	-	-
1-11/16	BA50102240122	Price	-	-
1-3/4	BA50102240124	Price	-	-

Series - C
Locating Area (B) (in.) - 1-1/4 Thickness (C) (in.) - 5/16 Ref. Length (D) (in.) - 2

	HSS CPM-4 Uncoated 130°		HSS CPM-4 Uncoated Flat Bottom	
Size (in.)	Order No.	Price	Order No.	Price
1-1/2	BA50102340116	Price	BA53104340116	Price
1-9/16	BA50102340118	Price	BA53104340118	Price
1-19/32	BA50102340119	Price	-	-
1-5/8	BA50102340120	Price	BA53104340120	Price
1-11/16	BA50102340122	Price	BA53104340122	Price
1-23/32	BA50102340123	Price	-	-
1-3/4	BA50102340124	Price	BA53104340124	Price
1-25/32	BA50102340125	Price	-	-
1-13/16	BA50102340126	Price	BA53104340126	Price
1-7/8	BA50102340128	Price	BA53104340128	Price
1-29/32	BA50102340129	Price	-	-
1-15/16	BA50102340130	Price	BA53104340130	Price
1-31/32	BA50102340131	Price	-	-
2	BA50102340200	Price	BA53104340200	Price
2-1/32	BA50102340201	Price	-	-
2-1/16	BA50102340202	Price	-	-
2-1/8	BA50102340204	Price	-	-
2-5/32	BA50102340205	Price	-	-
2-3/16	BA50102340206	Price	-	-
2-1/4	BA50102340208	Price	-	-
2-5/16	BA50102340210	Price	-	-
2-3/8	BA50102340212	Price	-	-

Series - D
Locating Area (B) (in.) - 1-3/4 Thickness (C) (in.) - 3/8 Ref. Length (D) (in.) - 2-3/8

	HSS CPM-4 Uncoated 130°		HSS CPM-4 Uncoated Flat Bottom	
Size (in.)	Order No.	Price	Order No.	Price
2	BA50102440200	Price	BA53104440200	Price
2-1/32	BA50102440201	Price	-	-
2-1/16	BA50102440202	Price	BA53104440202	Price
2-1/8	BA50102440204	Price	BA53104440204	Price
2-3/16	BA50102440206	Price	BA53104440206	Price
2-7/32	BA50102440207	Price	-	-
2-1/4	BA50102440208	Price	BA53104440208	Price
2-9/32	BA50102440209	Price	-	-
2-5/16	BA50102440210	Price	BA53104440210	Price
2-11/32	BA50102440211	Price	-	-

Series - D
Locating Area (B) (in.) - 1-3/4 Thickness (C) (in.) - 3/8 Ref. Length (D) (in.) - 2-3/8

	HSS CPM-4 Uncoated 130°		HSS CPM-4 Uncoated Flat Bottom	
Size (in.)	Order No.	Price	Order No.	Price
2-3/8	BA50102440212	Price	BA53104440212	Price
2-7/16	BA50102440214	Price	BA53104440214	Price
2-15/32	BA50102440215	Price	-	-
2-1/2	BA50102440216	Price	BA53104440216	Price
2-17/32	BA50102440217	Price	-	-
2-9/16	BA50102440218	Price	-	-
2-5/8	BA50102440220	Price	-	-
2-11/16	BA50102440222	Price	-	-
2-3/4	BA50102440224	Price	-	-
2-13/16	BA50102440226	Price	-	-
2-7/8	BA50102440228	Price	-	-

Price

	Price		HSS CPM-4 Uncoated Flat Bottom	
Size (in.)	Order No.	Price	Order No.	Price
2-1/2	BA50102540216	Price	BA53104540216	Price
2-9/16	BA50102540218	Price	BA53104540218	Price
2-19/32	BA50102540219	Price	-	-
2-5/8	BA50102540220	Price	BA53104540220	Price
2-11/16	BA50102540222	Price	BA53104540222	Price
2-3/4	BA50102540224	Price	BA53104540224	Price
2-13/16	BA50102540226	Price	BA53104540226	Price
2-7/8	BA50102540228	Price	BA53104540228	Price
2-15/16	BA50102540230	Price	BA53104540230	Price
3	BA50102540300	Price	BA53104540300	Price
3-1/32	BA50102540301	Price	-	-
3-1/16	BA50102540302	Price	-	-
3-1/8	BA50102540304	Price	-	-
3-3/16	BA50102540306	Price	-	-
3-1/4	BA50102540308	Price	-	-
3-5/16	BA50102540310	Price	-	-
3-3/8	BA50102540312	Price	-	-

Series - F
Locating Area (B) (in.) - 2-5/8 Thickness (C) (in.) - 1/2 Ref. Length (D) (in.) - 3-1/8

	HSS CPM-4 Uncoated 130°		HSS CPM-4 Uncoated Flat Bottom	
Size (in.)	Order No.	Price	Order No.	Price
3	BA50102640300	Price	BA53104640300	Price
3-1/16	BA50102640302	Price	BA53104640302	Price
3-1/8	BA50102640304	Price	BA53104640304	Price
3-5/32	BA50102640305	Price	-	-
3-3/16	BA50102640306	Price	BA53104640306	Price
3-1/4	BA50102640308	Price	BA53104640308	Price
3-3/8	BA50102640312	Price	BA53104640312	Price
3-7/16	BA50102640314	Price	BA53104640314	Price
3-1/2	BA50102640316	Price	BA53104640316	Price
3-9/16	BA50102640318	Price	-	-
3-19/32	BA50102640319	Price	-	-
3-5/8	BA50102640320	Price	-	-
3-3/4	BA50102640324	Price	-	-
3-7/8	BA50102640328	Price	-	-

Series - G
Locating Area (B) (in.) - 3-1/16 Thickness (C) (in.) - 5/8 Ref. Length (D) (in.) - 3-3/8

	HSS CPM-4 Uncoated 130°		HSS CPM-4 Uncoated Flat Bottom	
Size (in.)	Order No.	Price	Order No.	Price
3-1/2	BA50102740316	Price	BA53104740316	Price
3-9/16	BA50102740318	Price	BA53104740318	Price
3-3/4	BA50102740324	Price	BA53104740324	Price
3-7/8	BA50102740328	Price	BA53104740328	Price
4	BA50102740400	Price	BA53104740400	Price
4-1/8	BA50102740404	Price	-	-
4-1/4	BA50102740408	Price	-	-
4-1/2	BA50102740416	Price	-	-

Series - H1
Locating Area (B) (in.) - 3-1/2 Thickness (C) (in.) - 11/16 Ref. Length (D) (in.) - 3-11/16

	HSS CPM-4 Uncoated 130°		HSS CPM-4 Uncoated Flat Bottom	
Size (in.)	Order No.	Price	Order No.	Price
4	BA50102840400	Price	BA53104840400	Price
4-1/16	BA50102840402	Price	-	-
4-1/8	BA50102840404	Price	BA53104840404	Price
4-1/4	BA50102840408	Price	BA53104840408	Price
4-3/8	BA50102840412	Price	BA53104840412	Price
4-1/2	BA50102840416	Price	BA53104840416	Price
4-3/4	-	-	BA53104840424	Price
5	-	-	BA53104840500	Price

Series - H2
Locating Area (B) (in.) - 3-1/2 Thickness (C) (in.) - 11/16 Ref. Length (D) (in.) - 3-11/16

	HSS CPM-4 Uncoated 130°	
Size (in.)	Order No.	Price
4-9/16	BA50102840418	Price
4-3/4	BA50102840424	Price
5	BA50102840500	Price

Series - H3
Locating Area (B) (in.) - 3-1/2 Thickness (C) (in.) - 11/16 Ref. Length (D) (in.) - 4-11/16

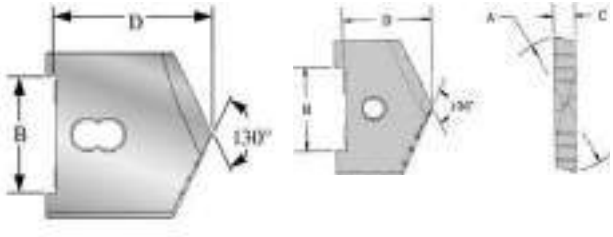
	HSS CPM-4 Uncoated 130°	
Size (in.)	Order No.	Price
5-3/8	BA50102940512	Price
5-1/2	BA50102940516	Price

Series - H4
Locating Area (B) (in.) - 3-1/2 Thickness (C) (in.) - 11/16 Ref. Length (D) (in.) - 4-11/16

	HSS CPM-4 Uncoated 130°	
Size (in.)	Order No.	Price
6	BA50102940600	Price

Series H blades available up to 8-1/2" size. Please inquire.

High Performance Spade Drill Blades



TiN Coated 130°

Offers higher production levels than universal style spade drills. Reduced length and unique geometry improves rigidity while coating, increases tool life and performance. Increased performance levels of 100% to 500% are not uncommon.

- High performance spade drills use the same holders as the universal style blades.
- High performance spade drills and holders are interchangeable with most other manufacturer's products
- TiN coated blades increase tool life 3 to 10 times that of uncoated tools
- Largest inventory of spade drill products in the United States

Series - A
Locating Area (B) (in.) - 3/4 Thickness (C) (in.) - 3/16 Reference Length (in.) - 7/8

	HSS CPM-4 TiN Coated 130°	
Size (in.)	Order No.	Price
31/32	BA511021T0031	Price
1	BA511021T0100	Price
1-1/32	BA511021T0101	Price
1-1/16	BA511021T0102	Price
1-3/32	BA511021T0103	Price
1-1/8	BA511021T0104	Price
1-5/32	BA511021T0105	Price
1-3/16	BA511021T0106	Price
1-7/32	BA511021T0107	Price
1-1/4	BA511021T0108	Price
1-9/32	BA511021T0109	Price
1-5/16	BA511021T0110	Price
1-11/32	BA511021T0111	Price
1-3/8	BA511021T0112	Price

Series - B
Locating Area (B) (in.) - 1-1/16 Thickness (C) (in.) - 9/32 Reference Length (in.) - 1-3/32

	HSS CPM-4 TiN Coated 130°	
Size (in.)	Order No.	Price
1-1/4	BA511022T0108	Price
1-9/32	BA511022T0109	Price
1-5/16	BA511022T0110	Price
1-11/32	BA511022T0111	Price
1-3/8	BA511022T0112	Price
1-13/32	BA511022T0113	Price
1-7/16	BA511022T0114	Price
1-15/32	BA511022T0115	Price
1-1/2	BA511022T0116	Price
1-17/32	BA511022T0117	Price
1-9/16	BA511022T0118	Price
1-19/32	BA511022T0119	Price
1-5/8	BA511022T0120	Price
1-11/16	BA511022T0122	Price
1-23/32	BA511022T0123	Price
1-3/4	BA511022T0124	Price

Series - C
Locating Area (B) (in.) - 1-1/4 Thickness (C) (in.) - 5/16 Reference Length (in.) - 1-19/64

	HSS CPM-4 TiN Coated 130°	
Size (in.)	Order No.	Price
1-1/2	BA511023T0116	Price
1-17/32	BA511023T0117	Price
1-9/16	BA511023T0118	Price
1-5/8	BA511023T0120	Price
1-21/32	BA511023T0121	Price
1-11/16	BA511023T0122	Price
1-23/32	BA511023T0123	Price
1-3/4	BA511023T0124	Price
1-25/32	BA511023T0125	Price
1-13/16	BA511023T0126	Price
1-7/8	BA511023T0128	Price
1-29/32	BA511023T0129	Price
1-15/16	BA511023T0130	Price
1-31/32	BA511023T0131	Price
2	BA511023T0200	Price
2-1/32	BA511023T0201	Price

Series - C
Locating Area (B) (in.) - 1-1/4 Thickness (C) (in.) - 5/16 Reference Length (in.) - 1-19/64

	HSS CPM-4 TiN Coated 130°	
Size (in.)	Order No.	Price
2-1/16	BA511023T0202	Price
2-1/8	BA511023T0204	Price
2-3/16	BA511023T0206	Price
2-1/4	BA511023T0208	Price
2-5/16	BA511023T0210	Price
2-3/8	BA511023T0212	Price

Price		
	Price	
Size (in.)	Order No.	Price
2	BA511024T0200	Price
2-1/32	BA511024T0201	Price
2-1/16	BA511024T0202	Price
2-1/8	BA511024T0204	Price
2-5/32	BA511024T0205	Price
2-3/16	BA511024T0206	Price
2-1/4	BA511024T0208	Price
2-5/16	BA511024T0210	Price
2-11/32	BA511024T0211	Price
2-3/8	BA511024T0212	Price
2-7/16	BA511024T0214	Price
2-1/2	BA511024T0216	Price
2-9/16	BA511024T0218	Price
2-5/8	BA511024T0220	Price
2-11/16	BA511024T0222	Price
2-3/4	BA511024T0224	Price
2-13/16	BA511024T0226	Price
2-7/8	BA511024T0228	Price

Series - E
Locating Area (B) (in.) - 2-1/16 Thickness (C) (in.) - 7/16 Reference Length (in.) - 1-7/16

	HSS CPM-4 TiN Coated 130°	
Size (in.)	Order No.	Price
2-1/2	BA511025T0216	Price
2-9/16	BA511025T0218	Price
2-5/8	BA511025T0220	Price
2-11/16	BA511025T0222	Price
2-3/4	BA511025T0224	Price
2-13/16	BA511025T0226	Price
2-7/8	BA511025T0228	Price
2-15/16	BA511025T0230	Price
3	BA511025T0300	Price
3-1/16	BA511025T0302	Price
3-1/8	BA511025T0304	Price
3-3/16	BA511025T0306	Price
3-1/4	BA511025T0308	Price
3-5/16	BA511025T0310	Price
3-3/8	BA511025T0312	Price

Series - F
Locating Area (B) (in.) - 2-5/8 Thickness (C) (in.) - 1/2 Reference Length (in.) - 1-13/16

	HSS CPM-4 TiN Coated 130°	
Size (in.)	Order No.	Price
3	BA511026T0300	Price
3-1/8	BA511026T0304	Price
3-1/4	BA511026T0308	Price
3-3/8	BA511026T0312	Price

Series - F
Locating Area (B) (in.) - 2-5/8 Thickness (C) (in.) - 1/2 Reference Length (in.) - 1-13/16

	HSS CPM-4 TiN Coated 130°	
Size (in.)	Order No.	Price
3-7/16	BA511026T0314	Price
3-1/2	BA511026T0316	Price
3-9/16	BA511026T0318	Price
3-5/8	BA511026T0320	Price
3-3/4	BA511026T0324	Price
3-13/16	BA511026T0326	Price
3-7/8	BA511026T0328	Price

Price		
	Price	
Size (in.)	Order No.	Price
3-9/16	BA511027T0318	Price
3-5/8	BA511027T0320	Price
3-7/8	BA511027T0328	Price
3-15/16	BA511027T0330	Price
4	BA511027T0400	Price
4-1/4	BA511027T0408	Price
4-1/2	BA511027T0416	Price

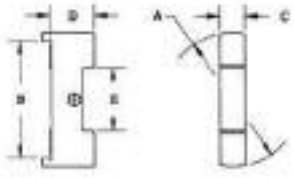
Series - H
Locating Area (B) (in.) - 3-1/2 Thickness (C) (in.) - 11/16 Reference Length (in.) - 2-3/16

	HSS CPM-4 TiN Coated 130°	
Size (in.)	Order No.	Price
4-1/4	BA511028T0408	Price
4-5/8	BA511028T0420	Price
5	BA511028T0500	Price

Fax or call us for sizes or styles not listed. They can be promptly supplied.

Adapters for High Performance Blades

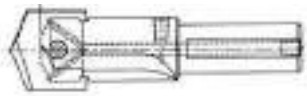
For use with style 2 (series D – H) high performance spade drill blades.



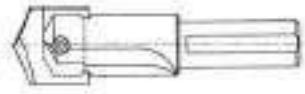
Series	Order No.	Price
D	BA511024U	Price
E	BA511025U	Price
F	BA511026U	Price
G	BA511027U	Price
H	BA511028U	Price

Allied Straight Shank Universal & High Performance Spade Drill Holders

- Straight shank holders are used in non-rotating applications, such as CNC lathes, automatic screw machines, or turret lathes
- For those holders with through-the-tool coolant, connections are made through a tapered pipe tap in the side of the holder body or at the end of the shank-a pipe plug is provided to close off the unused coolant inlet hole



Coolant Fed Straight Shank



Straight Shank without Coolant

Series	Style	Blade Size Cutting Range (in.)	Reference Lgth. (in.)	Flute Lgth. (in.)	Shank (in.)	Shank Lgth. (in.)	OAL (in.)	Pipe Tap	Order No.	Price
A	Non-Coolant Fed	31/32 to 1-3/8	3-9/16	3	1	3-1/2	6-1/2	-	**BA55204111000**	Price
A	Coolant-Fed	31/32 to 1-3/8	3-9/16	3	1	3-1/2	6-1/2	1/8	**BA55206111000**	Price
A	Coolant-Fed	31/32 to 1-3/8	8-5/16	7-3/4	1	3-1/2	11-1/4	1/8	**BA55208111000**	Price
A	Coolant-Fed	31/32 to 1-3/8	15-9/16	15	1	3-1/2	18-1/2	1/8	**BA55210111000**	Price
B	Non-Coolant Fed	1-1/4 to 1-3/4	4-3/32	3-1/2	1	3-1/2	7	-	**BA55204211000**	Price
B	Coolant-Fed	1-1/4 to 1-3/4	4-3/32	3-1/2	1	3-1/2	7	1/4	**BA55206211000**	Price
B	Coolant-Fed	1-1/4 to 1-3/4	8-23/32	8-1/8	1	3-1/2	11-5/8	1/4	**BA55208211000**	Price
B	Coolant-Fed	1-1/4 to 1-3/4	4-3/32	3-1/2	1-1/4	3-1/2	7	1/4	**BA55206211250**	Price
B	Coolant-Fed	1-1/4 to 1-3/4	8-23/32	8-1/8	1-1/4	3-1/2	11-5/8	1/4	**BA55208211250**	Price
B	Coolant-Fed	1-1/4 to 1-3/4	15-19/32	15	1-1/4	3-1/2	18-1/2	1/4	**BA55210211250**	Price
C	Non-Coolant Fed	1-1/2 to 2-3/8	5	4	1-1/4	4	8	-	**BA55204311250**	Price
C	Coolant-Fed	1-1/2 to 2-3/8	5	4	1-1/4	4	8	1/4	**BA55206311250**	Price
C	Coolant-Fed	1-1/2 to 2-3/8	5	4	1-1/2	4	8	1/4	**BA55206311500**	Price
C	Coolant-Fed	1-1/2 to 2-3/8	9-1/2	8-1/2	1-1/4	4	12-1/2	1/4	**BA55208311250**	Price
C	Coolant-Fed	1-1/2 to 2-3/8	9-1/2	8-1/2	1-1/2	4	12-1/2	1/4	**BA55208311500**	Price
C	Coolant-Fed	1-1/2 to 2-3/8	19	18	1-1/2	4	22	1/4	**BA55210311500**	Price
D†	Non-Coolant Fed	2 to 2-7/8	5-1/2	4-1/2	1-1/2	4	8-1/2	-	**BA55204411500**	Price
D†	Coolant-Fed	2 to 2-7/8	5-1/2	4-1/2	1-1/2	4	8-1/2	1/4	**BA55206411500**	Price
D†	Coolant-Fed	2 to 2-7/8	10	9	1-1/2	4	13	1/4	**BA55208411500**	Price
D†	Coolant-Fed	2 to 2-7/8	19	18	1-1/2	4	22	1/4	**BA55210411500**	Price
E†	Non-Coolant Fed	2-1/2 to 3-3/8	6-1/16	5	1-3/4	4	9	-	**BA55204511750**	Price
E†	Coolant-Fed	2-1/2 to 3-3/8	11-1/16	10	2	4	14	1/2	**BA55208512000**	Price
F†	Non-Coolant Fed	3 to 3-7/8	6-3/4	5-1/2	2	4	9-1/2	1/8	**BA55204612000**	Price
F†	Coolant-Fed	3 to 3-7/8	6-3/4	5-1/2	2	4	9-1/2	1/2	**BA55206612000**	Price
F†	Coolant-Fed	3 to 3-7/8	12-3/4	11-1/2	2	4	15-1/2	1/2	**BA55208612000**	Price
E†	Coolant-Fed	2-1/2 to 3-3/8	21-1/16	20	2	4	24	1/2	**BA55210512000**	Price
F†	Coolant-Fed	3 to 3-7/8	21-1/4	20	2-1/2	4	24	1/2	**BA55210612500**	Price
G†	Coolant-Fed	3-1/2 to 4-1/2	7-7/16	6	2-1/2	5	11	1/2	**BA55206712500**	Price
G†	Coolant-Fed	3-1/2 to 4-1/2	14-7/16	13	2-1/2	5	18	1/2	**BA55208712500**	Price
H†	Coolant-Fed	4 to 8-1/2	8-9/16	7	2-1/2	6	13	1/2	**BA55206812500**	Price
H†	Coolant-Fed	4 to 8-1/2	16-9/16	15	2-1/2	6	21	1/2	**BA55208812500**	Price

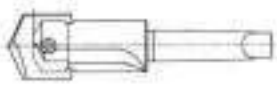
†Note: Series D through H high performance spade drill blades require the use of a spade drill adapter.

Allied Taper Shank Universal & High Performance Spade Drill Holders

- Taper shank holders are used in rotating applications, such as boring mills, drill presses, vertical & horizontal machining centers, etc
- For rotating applications with through-the-tool coolant, a rotary coolant area is provided
- Coolant is induced into the holder via an RCA (rotary coolant adapter)



Coolant Fed Taper Shank



Taper Shank without Coolant

Series	Style	Blade Size Cutting Range (in.)	Reference Lgth. (in.)	Flute Lgth. (in.)	Shank (in.)	Shank Lgth. (in.)	OAL (in.)	Pipe Tap	Coolant Adaptor	Order No.	Price
A	Non-Coolant Fed	31/32 to 1-3/8	3-3/4	3	3MT	3-7/8	6-7/8	-	-	**BA55214110003**	Price
A	Coolant-Fed	31/32 to 1-3/8	5-1/2	3	4MT	4-7/8	9-9/16	1/4	2T4SR	**BA55216110004**	Price
A	Coolant-Fed	31/32 to 1-3/8	10-1/4	7-3/4	4MT	4-7/8	14-5/16	1/4	2T4SR	**BA55218110004**	Price
A	Coolant-Fed	31/32 to 1-3/8	17-1/2	15	4MT	4-7/8	21-9/16	1/4	2T4SR	**BA55220110004**	Price
B	Non-Coolant Fed	1-1/4 to 1-3/4	4-9/32	3-1/2	3MT	3-7/8	7-3/8	-	-	**BA55214210003**	Price
B	Non-Coolant Fed	1-1/4 to 1-3/4	4-11/32	3-1/2	4MT	4-7/8	8-3/8	-	-	**BA55214210004**	Price
B	Coolant-Fed	1-1/4 to 1-3/4	6-1/32	3-1/2	4MT	4-7/8	10-1/16	1/4	2T4SR	**BA55216210004**	Price
B	Coolant-Fed	1-1/4 to 1-3/4	10-21/32	8-1/8	4MT	4-7/8	14-11/16	1/4	2T4SR	**BA55218210004**	Price
B	Coolant-Fed	1-1/4 to 1-3/4	17-17/32	15	4MT	4-7/8	21-9/16	1/4	2T4SR	**BA55220210004**	Price
C	Non-Coolant Fed	1-1/2 to 2-3/8	5-1/4	4	4MT	4-7/8	8-7/8	-	-	**BA55214310004**	Price
C	Coolant-Fed	1-1/2 to 2-3/8	6-15/16	4	4MT	4-7/8	10-9/16	1/4	2T4SR	**BA55216310004**	Price
C	Coolant-Fed	1-1/2 to 2-3/8	11-7/16	8-1/2	4MT	4-7/8	15-1/16	1/4	2T4SR	**BA55218310004**	Price
C	Coolant-Fed	1-1/2 to 2-3/8	20-15/16	18	4MT	4-7/8	24-9/16	1/4	2T4SR	**BA55220310004**	Price
D†	Non-Coolant Fed	2 to 2-7/8	5-3/4	4-1/2	4MT	4-7/8	9-3/8	-	-	**BA55214410004**	Price
D†	Coolant-Fed	2 to 2-7/8	7-7/16	4-1/2	4MT	4-7/8	11-1/16	1/4	2T4SR	**BA55216410004**	Price
D†	Coolant-Fed	2 to 2-7/8	11-15/16	9	4MT	4-7/8	15-9/16	1/4	2T4SR	**BA55218410004**	Price
D†	Coolant-Fed	2 to 2-7/8	20-15/16	18	4MT	4-7/8	24-9/16	1/4	2T4SR	**BA55220410004**	Price
E†	Non-Coolant Fed	2-1/2 to 3-3/8	6-5/16	5	4MT	4-7/8	9-7/8	-	-	**BA55214510004**	Price
E†	Coolant-Fed	2-1/2 to 3-3/8	8-5/8	5	5MT	6-1/8	13-7/16	1/2	2T6SR	**BA55216510005**	Price
E†	Coolant-Fed	2-1/2 to 3-3/8	13-5/8	10	5MT	6-1/8	18-7/16	1/2	2T6SR	**BA55218510005**	Price
E†	Coolant-Fed	2-1/2 to 3-3/8	23-5/8	20	5MT	6-1/8	28-7/16	1/2	2T6SR	**BA55220510005**	Price
F†	Non-Coolant Fed	3 to 3-7/8	7	5-1/2	5MT	6-1/8	11-5/8	-	-	**BA55214610005**	Price
F†	Coolant-Fed	3 to 3-7/8	9-5/16	5-1/2	5MT	6-1/8	13-15/16	1/2	2T6SR	**BA55216610005**	Price
F†	Coolant-Fed	3 to 3-7/8	15-5/16	11-1/2	5MT	6-1/8	19-15/16	1/2	2T6SR	**BA55218610005**	Price
F†	Coolant-Fed	3 to 3-7/8	23-9/16	20	5MT	6-1/8	28-7/16	1/2	2T6SR	**BA55220610005**	Price
G†	Non-Coolant Fed	3-1/2 to 4-1/2	7-11/16	6	5MT	6-1/8	12-1/8	-	-	**BA55214710005**	Price
G†	Coolant-Fed	3-1/2 to 4-1/2	10	6	5MT	6-1/8	14-7/16	1/2	2T6SR	**BA55216710005**	Price
G†	Coolant-Fed	3-1/2 to 4-1/2	17	13	5MT	6-1/8	21-7/16	1/2	2T6SR	**BA55218710005**	Price
H†	Non-Coolant Fed	4 to 8-1/2	8-13/16	7	5MT	6-1/8	13-1/8	-	-	**BA55214810005**	Price
H†	Coolant-Fed	4 to 8-1/2	11-1/8	7	5MT	6-1/8	15-7/16	1/2	2T6SR	**BA55216810005**	Price
H†	Coolant-Fed	4 to 8-1/2	19-1/8	15	5MT	6-1/8	23-9/16	1/2	2T6SR	**BA55218810005**	Price
G†	Coolant-Fed	3-1/2 to 4-1/2	28	24	5MT	6-1/8	32-7/16	1/2	2T6SR	**BA55220710005**	Price

†Note: Series D through H high performance spade drill blades require the use of a spade drill adapter.
Extra long series spade drill holders are available on request

Original T-A drill inserts are an excellent choice for gerneral purpose use. The design provides fast penetration rates that produce good hole size and finish. Standard geometry combines highly efficient and stable cutting action to minimize power consumption. Recommended for use in most steels, cast irons, high temperature alloys and aluminum alloys.
Gen2 T-A is the next generation in replaceable tip drilling systems. Gen2 T-A provides for lower drilling forces with increased drill stability. The geometry allows for smoother breakout on through holes and improved chip formation.
Flat Bottom T-A drills are used as a secondary finishing tool for bottoming and for flat bottom finishing.
MATERIALS:
HSS (CPM-M4) This tool steel grade possesses the highest material toughness to resist shock. It will drill the majority of steels and cast irons in the industry that are below 280 BHN.
Super Cobalt (CPM-T15) This tool steel grade exhibits mid-range wear resistance and toughness. This grade with provide increased wear resistance in any ferrous or non-ferrous application within the 280-359 BHN range.
Premium Cobalt the most wear-resistant tool steel. It is more susceptible to fracture from shock and vibration. It is recommended for hard materials (350-500 BHN) as well as abrasive materials.
COATINGS:
TiN coating provides increased lubricity and heat resistance and allows for increased machining speeds.
TiAlN coating has a higher heat threshold allowing for higher drilling speeds in stainless steels, titanium and nickel-based alloys. Has proven successful in cast iron applications. Not for aluminum.
AM200 proprietary coating has excellent wear characteristics and a high heat threshold. Ideal for most high penetration drilling applications.

Super Cobalt Flat Bottom T-A® Drill Inserts

- Flat bottom T-A drills are used as a secondary finishing tool for bottom finishing

Series - Super Cobalt (CPM-T15) / Series 0-Flat Bottom		
Cutting Diameter (Inch/Metric)	Order No.	Price
33/64	BA52150T515FB	Price
17/32	BA52150T0017FB	Price
9/16	BA52150T0018FB	Price
37/64	BA52150T578FB	Price
19/32	BA52150T0019FB	Price
5/8	BA52150T0020FB	Price
21/32	BA52150T0021FB	Price
11/16	BA52150T0022FB	Price
13mm	BA52150T13FB	Price
13.5mm	BA52150T135FB	Price
14mm	BA52150T14FB	Price
14.5mm	BA52150T145FB	Price
15mm	BA52150T15FB	Price
15.5mm	BA52150T155FB	Price
16mm	BA52150T16FB	Price

Series - Super Cobalt (CPM-T15) / Series 0-Flat Bottom		
Cutting Diameter (Inch/Metric)	Order No.	Price
16.5mm	BA52150T165FB	Price
17mm	BA52150T17FB	Price
17.5mm	BA52150T175FB	Price

Series - Super Cobalt (CPM-T15) / Series Y-Flat Bottom		
Cutting Diameter (Inch/Metric)	Order No.	Price
3/8	BA5215YT0012FB	Price
25/64	BA5215YT390FB	Price
13/32	BA5215YT0013FB	Price
27/64	BA5215YT421FB	Price
9.5mm	BA5215YT95FB	Price
9.8mm	BA5215YT386FB	Price
10mm	BA5215YT10FB	Price
10.2mm	BA5215YT102FB	Price

Series - Super Cobalt (CPM-T15) / Series Y-Flat Bottom		
Cutting Diameter (Inch/Metric)	Order No.	Price
10.5mm	BA5215YT105FB	Price
10.8mm	BA5215YT108FB	Price
11mm	BA5215YT11FB	Price

Series - Super Cobalt (CPM-T15) / Series Z-Flat Bottom		
Cutting Diameter (Inch/Metric)	Order No.	Price
7/16	BA5215ZT0014FB	Price
29/64	BA5215ZT453FB	Price
15/32	BA5215ZT0015FB	Price
31/64	BA5215ZT484FB	Price
1/2	BA5215ZT0016FB	Price
11.5mm	BA5215ZT115FB	Price
12mm	BA5215ZT12FB	Price
12.5mm	BA5215ZT125FB	Price

Standard T-A® Drill Inserts Series Y





Blade Thickness - 3/32”

GEN2 T-A

	Super Cobalt (CPM-T15)						Premium Cobalt			
	AM200		TiAlN		TiN		TiAlN		TiN	
	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
3/8	BA5245YH0012	Price	BA5215YA0012	Price	BA5215YT0012	Price	BA5218YA0012	Price	BA5218YT0012	Price
.386"(W)	BA5245YH386	Price	-	-	-	-	-	-	-	-
25/64	BA5245YH390	Price	BA5215YA390	Price	BA5215YT390	Price	BA5218YA390	Price	BA5218YT390	Price
13/32	BA5245YH0013	Price	BA5215YA0013	Price	BA5215YT0013	Price	BA5218YA0013	Price	BA5218YT0013	Price
27/64	BA5245YH421	Price	BA5215YA421	Price	BA5215YT421	Price	BA5218YA421	Price	BA5218YT421	Price
9.5mm	BA5245YH95	Price	BA5215YA95	Price	BA5215YT95	Price	BA5218YA95	Price	BA5218YT95	Price
9.8mm	-	-	BA5215YA386	Price	BA5215YT386	Price	-	-	BA5218YT386	Price
10mm	BA5245YH10	Price	BA5215YA10	Price	BA5215YT10	Price	BA5218YA10	Price	BA5218YT10	Price
10.2mm	BA5245YH102	Price	BA5215YA102	Price	BA5215YT102	Price	BA5218YA102	Price	BA5218YT102	Price
10.5mm	BA5245YH105	Price	BA5215YA105	Price	BA5215YT105	Price	BA5218YA105	Price	BA5218YT105	Price
10.8mm	BA5245YH108	Price	BA5215YA108	Price	BA5215YT108	Price	BA5218YA108	Price	BA5218YT108	Price
11mm	BA5245YH11	Price	BA5215YA11	Price	BA5215YT11	Price	BA5218YA11	Price	BA5218YT11	Price

Standard T-A® Drill Inserts Series Z

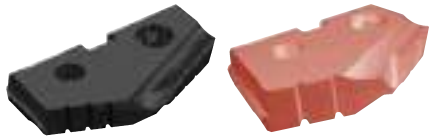
Blade Thickness - 3/32”

GEN2 T-A

	Super Cobalt (CPM-T15)						Premium Cobalt			
	AM200		TiAlN		TiN		TiAlN		TiN	
Cutting Diameter (Inch/Metric)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
7/16	BA5245ZH0014	Price	BA5215ZA0014	Price	BA5215ZT0014	Price	BA5218ZA0014	Price	BA5218ZT0014	Price
29/64	BA5245ZH453	Price	BA5215ZA453	Price	BA5215ZT453	Price	BA5218ZA453	Price	BA5218ZT453	Price
15/32	BA5245ZH0015	Price	BA5215ZA0015	Price	BA5215ZT0015	Price	BA5218ZA0015	Price	BA5218ZT0015	Price
31/64	BA5245ZH484	Price	BA5215ZA484	Price	BA5215ZT484	Price	BA5218ZA484	Price	BA5218ZT484	Price
1/2	BA5245ZH0016	Price	BA5215ZA0016	Price	BA5215ZT0016	Price	BA5218ZA0016	Price	BA5218ZT0016	Price
11.5mm	BA5245ZH115	Price	BA5215ZA115	Price	BA5215ZT115	Price	BA5218ZA115	Price	BA5218ZT115	Price
12mm	BA5245ZH12	Price	BA5215ZA12	Price	BA5215ZT12	Price	BA5218ZA12	Price	BA5218ZT12	Price
12.5mm	BA5245ZH125	Price	BA5215ZA125	Price	BA5215ZT125	Price	BA5218ZA125	Price	BA5218ZT125	Price

Standard T-A® Drill Inserts Series 0

Blade Thickness - 1/8”

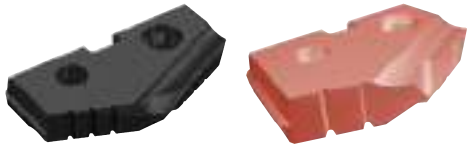


GEN2 T-A

	Super Cobalt (CPM-T15)						Premium Cobalt			
	AM200		TiAlN		TiN		TiAlN		TiN	
Cutting Diameter (Inch/Metric)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
33/64	BA52450H515	Price	BA52150A515	Price	BA52150T515	Price	BA52180A515	Price	BA52180T515	Price
17/32	BA52450H0017	Price	BA52150A0017	Price	BA52150T0017	Price	BA52180A0017	Price	BA52180T0017	Price
35/64	BA52450H546	Price	BA52150A546	Price	BA52150T546	Price	BA52180A546	Price	BA52180T546	Price
9/16	BA52450H0018	Price	BA52150A0018	Price	BA52150T0018	Price	BA52180A0018	Price	BA52180T0018	Price
37/64	BA52450H578	Price	BA52150A578	Price	BA52150T578	Price	BA52180A578	Price	BA52180T578	Price
19/32	BA52450H0019	Price	BA52150A0019	Price	BA52150T0019	Price	BA52180A0019	Price	BA52180T0019	Price
39/64	BA52450H609	Price	BA52150A609	Price	BA52150T609	Price	BA52180A609	Price	BA52180T609	Price
5/8	BA52450H0020	Price	BA52150A0020	Price	BA52150T0020	Price	BA52180A0020	Price	BA52180T0020	Price
41/64	BA52450H640	Price	BA52150A640	Price	BA52150T640	Price	BA52180A640	Price	BA52180T640	Price
21/32	BA52450H0021	Price	BA52150A0021	Price	BA52150T0021	Price	BA52180A0021	Price	BA52180T0021	Price
43/64	BA52450H671	Price	BA52150A671	Price	BA52150T671	Price	BA52180A671	Price	BA52180T671	Price
11/16	BA52450H0022	Price	BA52150A0022	Price	BA52150T0022	Price	BA52180A0022	Price	BA52180T0022	Price
13mm	BA52450H13	Price	BA52150A13	Price	BA52150T13	Price	BA52180A13	Price	BA52180T13	Price
13.5mm	BA52450H135	Price	BA52150A135	Price	BA52150T135	Price	BA52180A135	Price	BA52180T135	Price
14mm	BA52450H14	Price	BA52150A14	Price	BA52150T14	Price	BA52180A14	Price	BA52180T14	Price
14.5mm	BA52450H145	Price	BA52150A145	Price	BA52150T145	Price	BA52180A145	Price	BA52180T145	Price
15mm	BA52450H15	Price	BA52150A15	Price	BA52150T15	Price	BA52180A15	Price	BA52180T15	Price
15.5mm	BA52450H155	Price	BA52150A155	Price	BA52150T155	Price	BA52180A155	Price	BA52180T155	Price
16mm	BA52450H16	Price	BA52150A16	Price	BA52150T16	Price	BA52180A16	Price	BA52180T16	Price
16.5mm	BA52450H165	Price	BA52150A165	Price	BA52150T165	Price	BA52180A165	Price	BA52180T165	Price
17mm	-	-	-	-	-	-	BA52180A17	Price	BA52180T17	Price
17.5mm	BA52450H175	Price	BA52150A175	Price	BA52150T175	Price	BA52180A175	Price	BA52180T175	Price

Standard T-A® Drill Inserts Series 1

Blade Thickness - 5/32”



	HSS (CPM-M4)				Premium Cobalt			
	TiAlN		TiN		TiAlN		TiN	
Cutting Diameter (Inch/Metric)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
45/64	BA52131A703	Price	BA52131T703	Price	BA52181A703	Price	BA52181T703	Price
23/32	BA52131A0023	Price	BA52131T0023	Price	BA52181A0023	Price	BA52181T0023	Price
47/64	BA52131A734	Price	BA52131T734	Price	BA52181A734	Price	BA52181T734	Price
3/4	BA52131A0024	Price	BA52131T0024	Price	BA52181A0024	Price	BA52181T0024	Price
49/64	BA52131A765	Price	BA52131T765	Price	BA52181A765	Price	BA52181T765	Price
25/32	BA52131A0025	Price	BA52131T0025	Price	BA52181A0025	Price	BA52181T0025	Price
51/64	BA52131A796	Price	BA52131T796	Price	BA52181A796	Price	BA52181T796	Price
13/16	BA52131A0026	Price	BA52131T0026	Price	BA52181A0026	Price	BA52181T0026	Price
27/32	BA52131A0027	Price	BA52131T0027	Price	BA52181A0027	Price	BA52181T0027	Price
55/64	BA52131A859	Price	BA52131T859	Price	BA52181A859	Price	BA52181T859	Price
7/8	BA52131A0028	Price	BA52131T0028	Price	BA52181A0028	Price	BA52181T0028	Price
57/64	BA52131A890	Price	BA52131T890	Price	BA52181A890	Price	BA52181T890	Price
29/32	BA52131A0029	Price	BA52131T0029	Price	BA52181A0029	Price	BA52181T0029	Price
59/64	BA52131A921	Price	BA52131T921	Price	BA52181A921	Price	BA52181T921	Price
15/16	BA52131A0030	Price	BA52131T0030	Price	BA52181A0030	Price	BA52181T0030	Price
18mm	BA52131A18	Price	BA52131T18	Price	BA52181A18	Price	BA52181T18	Price
18.5mm	BA52131A185	Price	BA52131T185	Price	BA52181A185	Price	BA52181T185	Price
19mm	BA52131A19	Price	BA52131T19	Price	BA52181A19	Price	BA52181T19	Price
19.5mm	BA52131A195	Price	BA52131T195	Price	BA52181A195	Price	BA52181T195	Price
20mm	BA52131A20	Price	BA52131T20	Price	BA52181A20	Price	BA52181T20	Price
20.5mm	BA52131A205	Price	BA52131T205	Price	BA52181A205	Price	BA52181T205	Price
21mm	BA52131A21	Price	BA52131T21	Price	BA52181A21	Price	BA52181T21	Price
22mm	BA52131A22	Price	BA52131T22	Price	BA52181A22	Price	BA52181T22	Price
23mm	BA52131A23	Price	BA52131T23	Price	BA52181A23	Price	BA52181T23	Price
24mm	BA52131A24	Price	BA52131T24	Price	BA52181A24	Price	BA52181T24	Price

Standard T-A® Drill Inserts Series 1

Blade Thickness - 5/32”





	Super Cobalt (CPM-T15)					
	AM200		TiAlN		TiN	
Cutting Diameter (Inch/Metric)	Order No.	Price	Order No.	Price	Order No.	Price
45/64	BA52451H703	Price	BA52151A703	Price	BA52151T703	Price
23/32	BA52451H0023	Price	BA52151A0023	Price	BA52151T0023	Price
47/64	BA52451H734	Price	BA52151A734	Price	BA52151T734	Price
3/4	BA52451H0024	Price	BA52151A0024	Price	-	-
49/64	BA52451H765	Price	BA52151A765	Price	BA52151T765	Price
25/32	BA52451H0025	Price	BA52151A0025	Price	BA52151T0025	Price
51/64	BA52451H796	Price	BA52151A796	Price	BA52151T796	Price
13/16	BA52451H0026	Price	BA52151A0026	Price	BA52151T0026	Price
27/32	BA52451H0027	Price	BA52151A0027	Price	BA52151T0027	Price
55/64	BA52451H859	Price	BA52151A859	Price	BA52151T859	Price
7/8	BA52451H0028	Price	BA52151A0028	Price	BA52151T0028	Price
57/64	BA52451H890	Price	BA52151A890	Price	BA52151T890	Price
29/32	BA52451H0029	Price	BA52151A0029	Price	BA52151T0029	Price
59/64	BA52451H921	Price	BA52151A921	Price	BA52151T921	Price
15/16	BA52451H0030	Price	BA52151A0030	Price	BA52151T0030	Price
18mm	BA52451H18	Price	BA52151A18	Price	BA52151T18	Price
18.5mm	BA52451H185	Price	BA52151A185	Price	BA52151T185	Price
19mm	BA52451H19	Price	BA52151A19	Price	BA52151T19	Price
19.5mm	BA52451H195	Price	BA52151A195	Price	BA52151T195	Price
20mm	BA52451H20	Price	BA52151A20	Price	BA52151T20	Price
20.5mm	BA52451H205	Price	BA52151A205	Price	BA52151T205	Price
21mm	BA52451H21	Price	BA52151A21	Price	BA52151T21	Price
22mm	BA52451H22	Price	BA52151A22	Price	BA52151T22	Price
23mm	BA52451H23	Price	BA52151A23	Price	BA52151T23	Price
24mm	BA52451H24	Price	BA52151A24	Price	BA52151T24	Price

Standard T-A® Drill Inserts Series 2

Blade Thickness - 3/16”



	HSS (CPM-M4)				Premium Cobalt			
	TiAlN		TiN		TiAlN		TiN	
Cutting Diameter (Inch/Metric)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
31/32	BA52132A0031	Price	BA52132T0031	Price	BA52182A0031	Price	BA52182T0031	Price
1	BA52132A0100	Price	BA52132T0100	Price	BA52182A0100	Price	BA52182T0100	Price
1-1/64	BA52132A1015	Price	BA52132T1015	Price	BA52182A1015	Price	BA52182T1015	Price
1-1/32	BA52132A0101	Price	BA52132T0101	Price	BA52182A0101	Price	BA52182T0101	Price
1-3/64	BA52132A1046	Price	BA52132T1046	Price	BA52182A1046	Price	BA52182T1046	Price
1-1/16	BA52132A0102	Price	BA52132T0102	Price	BA52182A0102	Price	BA52182T0102	Price
1-3/32	BA52132A0103	Price	BA52132T0103	Price	BA52182A0103	Price	BA52182T0103	Price
1-7/64	BA52132A1109	Price	BA52132T1109	Price	BA52182A1109	Price	BA52182T1109	Price
1-1/8	BA52132A0104	Price	BA52132T0104	Price	BA52182A0104	Price	BA52182T0104	Price
1-5/32	BA52132A0105	Price	BA52132T0105	Price	BA52182A0105	Price	BA52182T0105	Price
1-3/16	BA52132A0106	Price	BA52132T0106	Price	BA52182A0106	Price	BA52182T0106	Price
1-7/32	BA52132A0107	Price	BA52132T0107	Price	BA52182A0107	Price	BA52182T0107	Price
1-1/4	BA52132A0108	Price	BA52132T0108	Price	BA52182A0108	Price	BA52182T0108	Price
1-9/32	BA52132A0109	Price	BA52132T0109	Price	BA52182A0109	Price	BA52182T0109	Price
1-5/16	BA52132A0110	Price	BA52132T0110	Price	BA52182A0110	Price	BA52182T0110	Price
1-11/32	BA52132A0111	Price	BA52132T0111	Price	BA52182A0111	Price	BA52182T0111	Price
1-3/8	BA52132A0112	Price	BA52132T0112	Price	BA52182A0112	Price	BA52182T0112	Price
25mm	-	-	-	-	-	-	BA52182T25	Price
26mm	-	-	-	-	-	-	BA52182T26	Price
27mm	-	-	-	-	-	-	BA52182T27	Price
28mm	-	-	-	-	-	-	BA52182T28	Price
29mm	-	-	-	-	-	-	BA52182T29	Price
30mm	-	-	-	-	-	-	BA52182T30	Price
31mm	-	-	-	-	-	-	BA52182T31	Price
32mm	-	-	-	-	-	-	BA52182T32	Price
33mm	-	-	-	-	-	-	BA52182T33	Price
34mm	-	-	-	-	-	-	BA52182T34	Price
35mm	-	-	-	-	-	-	BA52182T35	Price

Standard T-A® Drill Inserts Series 2

Blade Thickness - 3/16”



Super Cobalt (CPM-T15)						
	AM200		TiAlN		TiN	
Cutting Diameter (Inch/ Metric)	Order No.	Price	Order No.	Price	Order No.	Price
31/32	BA52452H0031	Price	BA52152A0031	Price	BA52152T0031	Price
63/64	-	-	-	-	BA52152T25	Price
1	BA52452H0100	Price	BA52152A0100	Price	BA52152T0100	Price
1-1/64	BA52452H1015	Price	BA52152A1015	Price	BA52152T1015	Price
1-1/32	BA52452H0101	Price	BA52152A0101	Price	BA52152T0101	Price
1-3/64	BA52452H1046	Price	BA52152A1046	Price	BA52152T1046	Price
1-1/16	BA52452H0102	Price	BA52152A0102	Price	BA52152T0102	Price
1-3/32	BA52452H0103	Price	BA52152A0103	Price	BA52152T0103	Price
1-7/64	BA52452H1109	Price	BA52152A1109	Price	BA52152T1109	Price
1-1/8	BA52452H0104	Price	BA52152A0104	Price	BA52152T0104	Price
1-5/32	BA52452H0105	Price	BA52152A0105	Price	BA52152T0105	Price
1-3/16	BA52452H0106	Price	BA52152A0106	Price	BA52152T0106	Price
1-7/32	BA52452H0107	Price	BA52152A0107	Price	BA52152T0107	Price
1-1/4	BA52452H0108	Price	BA52152A0108	Price	BA52152T0108	Price
1-9/32	BA52452H0109	Price	BA52152A0109	Price	BA52152T0109	Price
1-5/16	BA52452H0110	Price	BA52152A0110	Price	BA52152T0110	Price
1-11/32	BA52452H0111	Price	BA52152A0111	Price	BA52152T0111	Price
1-3/8	BA52452H0112	Price	BA52152A0112	Price	BA52152T0112	Price
25mm	BA52452H25	Price	BA52152A25	Price	-	-
26mm	BA52452H26	Price	BA52152A26	Price	-	-
27mm	BA52452H27	Price	BA52152A27	Price	-	-
28mm	BA52452H28	Price	BA52152A28	Price	-	-
29mm	BA52452H29	Price	BA52152A29	Price	-	-
30mm	BA52452H30	Price	BA52152A30	Price	-	-
31mm	BA52452H31	Price	BA52152A31	Price	-	-
32mm	BA52452H32	Price	-	-	-	-
33mm	BA52452H33	Price	BA52152A33	Price	-	-
34mm	BA52452H34	Price	BA52152A34	Price	-	-
35mm	BA52452H35	Price	BA52152A35	Price	-	-

Standard T-A® Drill Inserts Series 3

Blade Thickness - 1/4”



	HSS (CPM-M4)		Super Cobalt (CPM-T15)			
	TiN		AM200		TiN	
Cutting Diameter (Inch/ Metric)	Order No.	Price	Order No.	Price	Order No.	Price
1-13/32	BA52433T0113	Price	BA52453H0113	Price	BA52453T0113	Price
1-7/16	BA52433T0114	Price	BA52453H0114	Price	BA52453T0114	Price
1-15/32	BA52433T0115	Price	BA52453H0115	Price	BA52453T0115	Price
1-1/2	BA52433T0116	Price	BA52453H0116	Price	BA52453T0116	Price
1-17/32	BA52433T0117	Price	BA52453H0117	Price	BA52453T0117	Price
1-9/16	BA52433T0118	Price	BA52453H0118	Price	BA52453T0118	Price
1-19/32	BA52433T0119	Price	BA52453H0119	Price	BA52453T0119	Price
1-5/8	BA52433T0120	Price	BA52453H0120	Price	BA52453T0120	Price
1-21/32	BA52433T0121	Price	BA52453H0121	Price	BA52453T0121	Price
1-11/16	BA52433T0122	Price	BA52453H0122	Price	BA52453T0122	Price
1-23/32	BA52433T0123	Price	BA52453H0123	Price	BA52453T0123	Price
1-3/4	BA52433T0124	Price	BA52453H0124	Price	BA52453T0124	Price
1-25/32	BA52433T0125	Price	BA52453H0125	Price	BA52453T0125	Price
1-13/16	BA52433T0126	Price	BA52453H0126	Price	BA52453T0126	Price
1-27/32	BA52433T0127	Price	BA52453H0127	Price	BA52453T0127	Price
1-7/8	BA52433T0128	Price	BA52453H0128	Price	BA52453T0128	Price
36mm	BA52433T36	Price	BA52453H36	Price	BA52453T36	Price
37mm	BA52433T37	Price	BA52453H37	Price	BA52453T37	Price
38mm	BA52433T38	Price	BA52453H38	Price	BA52453T38	Price
39mm	BA52433T39	Price	BA52453H39	Price	BA52453T39	Price
40mm	BA52433T40	Price	BA52453H40	Price	BA52453T40	Price
41mm	BA52433T41	Price	BA52453H41	Price	BA52453T41	Price
42mm	BA52433T42	Price	BA52453H42	Price	BA52453T42	Price
43mm	BA52433T43	Price	BA52453H43	Price	BA52453T43	Price
44mm	BA52433T44	Price	BA52453H44	Price	BA52453T44	Price
45mm	BA52433T45	Price	BA52453H45	Price	BA52453T45	Price
46mm	BA52433T46	Price	BA52453H46	Price	BA52453T46	Price
47mm	BA52433T47	Price	BA52453H47	Price	BA52453T47	Price

Standard T-A® Drill Inserts
Series 4
Blade Thickness - 5/16”



	HSS (CPM-M4)		Super Cobalt (CPM-T15)			
	TiN		AM200		TiN	
Cutting Dia. (in./ mm)	Order No.	Price	Order No.	Price	Order No.	Price
1-29/32	BA52434T0129	Price	BA52454H0129	Price	BA52454T0129	Price
1-15/16	BA52434T0130	Price	BA52454H0130	Price	BA52454T0130	Price
1-31/32	BA52434T0131	Price	BA52454H0131	Price	BA52454T0131	Price
2	BA52434T0200	Price	BA52454H0200	Price	BA52454T0200	Price
2-1/32	BA52434T0201	Price	BA52454H0201	Price	BA52454T0201	Price
2-1/16	BA52434T0202	Price	BA52454H0202	Price	BA52454T0202	Price
2-3/32	BA52434T0203	Price	BA52454H0203	Price	BA52454T0203	Price
2-1/8	BA52434T0204	Price	BA52454H0204	Price	BA52454T0204	Price
2-5/32	BA52434T0205	Price	BA52454H0205	Price	BA52454T0205	Price
2-3/16	BA52434T0206	Price	BA52454H0206	Price	BA52454T0206	Price
2-7/32	BA52434T0207	Price	BA52454H0207	Price	BA52454T0207	Price
2-1/4	BA52434T0208	Price	BA52454H0208	Price	BA52454T0208	Price
2-9/32	BA52434T0209	Price	BA52454H0209	Price	BA52454T0209	Price
2-5/16	BA52434T0210	Price	BA52454H0210	Price	BA52454T0210	Price
2-11/32	BA52434T0211	Price	BA52454H0211	Price	BA52454T0211	Price
2-3/8	BA52434T0212	Price	BA52454H0212	Price	BA52454T0212	Price
2-13/32	BA52434T0213	Price	BA52454H0213	Price	BA52454T0213	Price
2-7/16	BA52434T0214	Price	BA52454H0214	Price	BA52454T0214	Price
2-15/32	BA52434T0215	Price	BA52454H0215	Price	BA52454T0215	Price
2-1/2	BA52434T0216	Price	BA52454H0216	Price	BA52454T0216	Price
2-17/32	BA52434T0217	Price	BA52454H0217	Price	BA52454T0217	Price
2-9/16	BA52434T0218	Price	BA52454H0218	Price	BA52454T0218	Price
48mm	-	-	BA52454H48	Price	BA52454T48	Price
49mm	-	-	BA52454H49	Price	BA52454T49	Price
50mm	-	-	BA52454H50	Price	BA52454T50	Price
51mm	-	-	BA52454H51	Price	BA52454T51	Price
52mm	-	-	BA52454H52	Price	BA52454T52	Price
53mm	-	-	BA52454H53	Price	BA52454T53	Price
54mm	-	-	BA52454H54	Price	BA52454T54	Price
55mm	-	-	BA52454H55	Price	BA52454T55	Price
56mm	-	-	BA52454H56	Price	BA52454T56	Price
57mm	-	-	BA52454H57	Price	BA52454T57	Price
58mm	-	-	BA52454H58	Price	BA52454T58	Price
59mm	-	-	BA52454H59	Price	BA52454T59	Price
60mm	-	-	BA52454H60	Price	BA52454T60	Price
61mm	-	-	BA52454H61	Price	BA52454T61	Price
62mm	-	-	BA52454H62	Price	BA52454T62	Price
63mm	-	-	BA52454H63	Price	BA52454T63	Price
64mm	-	-	BA52454H64	Price	BA52454T64	Price
65mm	-	-	BA52454H65	Price	BA52454T65	Price

Standard T-A® Drill Inserts
Series 5, 6, 7 & 8
Series 5 thgough 8 have 144° point angle

Series 5 Blade Thickness - 5/16”

Material - HSS (CPM-M4) TiN Coated / Series 5		
Cutting Diameter (Inch/Metric)	Order No.	Price
2-1/2	BA52435T0216	Price
2-17/32	BA52435T0217	Price
2-9/16	BA52435T0218	Price
2-19/32	BA52435T0219	Price
2-5/8	BA52435T0220	Price
2-21/32	BA52435T0221	Price
2-11/16	BA52435T0222	Price

Series 5 Blade Thickness - 5/16”

Material - HSS (CPM-M4) TiN Coated / Series 5		
Cutting Diameter (Inch/Metric)	Order No.	Price
2-23/32	BA52435T0223	Price
2-3/4	BA52435T0224	Price
2-25/32	BA52435T0225	Price
2-13/16	BA52435T0226	Price
2-27/32	BA52435T0227	Price
2-7/8	BA52435T0228	Price
2-29/32	BA52435T0229	Price
2-15/16	BA52435T0230	Price
2-31/32	BA52435T0231	Price
3	BA52435T0300	Price

Series 6 Blade Thickness - 7/16”

Material - HSS (CPM-M4) TiN Coated / Series 6		
Cutting Diameter (Inch/Metric)	Order No.	Price
3-1/32	BA52436T0301	Price
3-1/16	BA52436T0302	Price
3-3/32	BA52436T0303	Price
3-1/8	BA52436T0304	Price
3-5/32	BA52436T0305	Price
3-3/16	BA52436T0306	Price
3-7/32	BA52436T0307	Price
3-1/4	BA52436T0308	Price
3-9/32	BA52436T0309	Price
3-5/16	BA52436T0310	Price
3-11/32	BA52436T0311	Price
3-3/8	BA52436T0312	Price
3-13/32	BA52436T0313	Price
3-7/16	BA52436T0314	Price
3-15/32	BA52436T0315	Price
3-1/2	BA52436T0316	Price

Series 7 Blade Thickness - 7/16”

Material - HSS (CPM-M4) TiN Coated / Series 7		
Cutting Diameter (Inch/Metric)	Order No.	Price
3-17/32	BA52437T0317	Price
3-9/16	BA52437T0318	Price
3-19/32	BA52437T0319	Price
3-5/8	BA52437T0320	Price
3-21/32	BA52437T0321	Price
3-11/16	BA52437T0322	Price
3-23/32	BA52437T0323	Price
3-3/4	BA52437T0324	Price
3-25/32	BA52437T0325	Price
3-13/16	BA52437T0326	Price
3-27/32	BA52437T0327	Price
3-7/8	BA52437T0328	Price
3-29/32	BA52437T0329	Price
3-15/16	BA52437T0330	Price
3-31/32	BA52437T0331	Price
4	BA52437T0400	Price

Series 8 Blade Thickness - 7/16”

Material - HSS (CPM-M4) TiN Coated / Series 8		
Cutting Diameter (Inch/Metric)	Order No.	Price
4-1/16	BA52438T0402	Price
4-1/8	BA52438T0404	Price
4-3/16	BA52438T0406	Price
4-1/4	BA52438T0408	Price
4-5/16	BA52438T0410	Price
4-3/8	BA52438T0412	Price
4-7/16	BA52438T0414	Price
4-1/2	BA52438T0416	Price

Solid Carbide T-A® Drill Inserts

- **C5** carbide is for general use in steel applications. It offers exceptionally high wear resistance. High machine tool rigidity is required.
- **C1** carbide is primarily for steel applications. This carbide offers wear characteristics similar to C5 carbide. In addition to its wear characteristics C1 carbide is considerably more durable when compared to other carbide grades.
- **C2** is for use in non-ferrous applications (high temperature alloys, stainless steels, aluminums, cast irons). It offers exceptionally high wear resistance. High machine tool rigidity is required.

Series Y - Blade Thickness - 3/32”

Series - C1 / Series Y		
	AM200	
Cutting Diameter (Inch/Metric)	Order No.	Price
3/8	BA524C1YH0012	Price
.386"(W)	BA524C1YH386	Price
25/64	BA524C1YH390	Price
13/32	BA524C1YH0013	Price
27/64	BA524C1YH421	Price
9.5mm	BA524C1YH95	Price
10mm	BA524C1YH10	Price
10.2mm	BA524C1YH102	Price
10.5mm	BA524C1YH105	Price
10.8mm	BA524C1YH108	Price
11mm	BA524C1YH11	Price

Series Z - Blade Thickness - 3/32”

Series - C1 / Series Z		
	AM200	
Cutting Diameter (Inch/Metric)	Order No.	Price
7/16	BA524C1ZH0014	Price
29/64	BA524C1ZH453	Price
15/32	BA524C1ZH0015	Price
31/64	BA524C1ZH484	Price
1/2	BA524C1ZH0016	Price
11.5mm	BA524C1ZH115	Price
12mm	BA524C1ZH12	Price
12.5mm	BA524C1ZH125	Price

Series 0 - Blade Thickness - 1/8”

Series - C1 / Series 0		
	AM200	
Cutting Diameter (Inch/Metric)	Order No.	Price
33/64	BA524C10H515	Price
17/32	BA524C10H0017	Price
35/64	BA524C10H546	Price
9/16	BA524C10H0018	Price
37/64	BA524C10H578	Price
19/32	BA524C10H0019	Price
39/64	BA524C10H609	Price
5/8	BA524C10H0020	Price
41/64	BA524C10H640	Price
21/32	BA524C10H0021	Price
43/64	BA524C10H671	Price
11/16	BA524C10H0022	Price
13mm	BA524C10H13	Price
13.5mm	BA524C10H135	Price
14mm	BA524C10H14	Price
14.5mm	BA524C10H145	Price
15mm	BA524C10H15	Price
15.5mm	BA524C10H155	Price
16mm	BA524C10H16	Price
16.5mm	BA524C10H165	Price
17mm	BA524C10H17	Price
17.5mm	BA524C10H175	Price

Solid Carbide T-A® Drill Inserts

Series 0 - Blade Thickness - 1/8”

Series - C2 / Series 0							Series - C5 / Series 0			
	Price		TiAlN		TiN		TiAlN		TiN	
Cutting Diameter (Inch/Metric)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
33/64	BA524C20H515	Price	BA521C20A515	Price	BA521C20T515	Price	BA521C50A515	Price	BA521C50T515	Price
17/32	BA524C20H0017	Price	BA521C20A0017	Price	BA521C20T0017	Price	BA521C50A0017	Price	BA521C50T0017	Price
35/64	BA524C20H546	Price	BA521C20A546	Price	BA521C20T546	Price	BA521C50A546	Price	BA521C50T546	Price
9/16	BA524C20H0018	Price	BA521C20A0018	Price	BA521C20T0018	Price	BA521C50A0018	Price	BA521C50T0018	Price
37/64	BA524C20H578	Price	BA521C20A578	Price	BA521C20T578	Price	BA521C50A578	Price	BA521C50T578	Price
19/32	BA524C20H0019	Price	BA521C20A0019	Price	BA521C20T0019	Price	BA521C50A0019	Price	BA521C50T0019	Price
39/64	BA524C20H609	Price	BA521C20A609	Price	BA521C20T609	Price	BA521C50A609	Price	BA521C50T609	Price
5/8	BA524C20H0020	Price	BA521C20A0020	Price	BA521C20T0020	Price	BA521C50A0020	Price	BA521C50T0020	Price
41/64	BA524C20H640	Price	BA521C20A640	Price	BA521C20T640	Price	BA521C50A640	Price	BA521C50T640	Price
21/32	BA524C20H0021	Price	BA521C20A0021	Price	BA521C20T0021	Price	BA521C50A0021	Price	BA521C50T0021	Price
43/64	BA524C20H671	Price	BA521C20A671	Price	BA521C20T671	Price	BA521C50A671	Price	BA521C50T671	Price
11/16	BA524C20H0022	Price	BA521C20A0022	Price	BA521C20T0022	Price	BA521C50A0022	Price	BA521C50T0022	Price
13mm	BA524C20H13	Price	BA521C20A13	Price	BA521C20T13	Price	BA521C50A13	Price	BA521C50T13	Price
13.5mm	BA524C20H135	Price	BA521C20A135	Price	BA521C20T135	Price	BA521C50A135	Price	BA521C50T135	Price
14mm	BA524C20H14	Price	BA521C20A14	Price	BA521C20T14	Price	BA521C50A14	Price	BA521C50T14	Price
14.5mm	BA524C20H145	Price	BA521C20A145	Price	BA521C20T145	Price	BA521C50A145	Price	BA521C50T145	Price
15mm	BA524C20H15	Price	BA521C20A15	Price	BA521C20T15	Price	BA521C50A15	Price	BA521C50T15	Price
15.5mm	BA524C20H155	Price	BA521C20A155	Price	BA521C20T155	Price	BA521C50A155	Price	BA521C50T155	Price
15.7mm	BA524C20H618	Price	-	-	-	-	-	-	-	-
16mm	BA524C20H16	Price	BA521C20A16	Price	BA521C20T16	Price	BA521C50A16	Price	BA521C50T16	Price
16.5mm	BA524C20H165	Price	BA521C20A165	Price	BA521C20T165	Price	BA521C50A165	Price	BA521C50T165	Price
17mm	BA524C20H17	Price	BA521C20A17	Price	BA521C20T17	Price	BA521C50A17	Price	-	-
17.5mm	BA524C20H175	Price	BA521C20A175	Price	BA521C20T175	Price	BA521C50A175	Price	BA521C50T175	Price

Series 1 - Blade Thickness - 5/32”

	Series - C5 / Series 1			
	Price		TiN	
Cutting Diameter (Inch/Metric)	Order No.	Price	Order No.	Price
45/64	BA521C51A703	Price	BA521C51T703	Price
23/32	BA521C51A0023	Price	BA521C51T0023	Price
47/64	BA521C51A734	Price	BA521C51T734	Price
3/4	BA521C51A0024	Price	BA521C51T0024	Price
49/64	BA521C51A765	Price	BA521C51T765	Price
25/32	BA521C51A0025	Price	BA521C51T0025	Price
51/64	BA521C51A796	Price	BA521C51T796	Price
13/16	BA521C51A0026	Price	BA521C51T0026	Price
27/32	BA521C51A0027	Price	BA521C51T0027	Price
55/64	BA521C51A859	Price	BA521C51T859	Price
7/8	BA521C51A0028	Price	BA521C51T0028	Price
57/64	BA521C51A890	Price	BA521C51T890	Price
29/32	BA521C51A0029	Price	BA521C51T0029	Price

	Series - C5 / Series 1			
	Price		TiN	
Cutting Diameter (Inch/Metric)	Order No.	Price	Order No.	Price
59/64	BA521C51A921	Price	BA521C51T921	Price
15/16	BA521C51A0030	Price	BA521C51T0030	Price
18mm	BA521C51A18	Price	BA521C51T18	Price
18.5mm	BA521C51A185	Price	BA521C51T185	Price
19mm	BA521C51A19	Price	BA521C51T19	Price
19.5mm	BA521C51A195	Price	BA521C51T195	Price
20mm	BA521C51A20	Price	BA521C51T20	Price
20.5mm	BA521C51A205	Price	BA521C51T205	Price
21mm	BA521C51A21	Price	BA521C51T21	Price
22mm	BA521C51A22	Price	BA521C51T22	Price
23mm	BA521C51A23	Price	BA521C51T23	Price
24mm	BA521C51A24	Price	BA521C51T24	Price

Solid Carbide T-A® Drill Inserts



Series 1 - Blade Thickness - 5/32”

C5 carbide is for general use in steel applications. It offers exceptionally high wear resistance. High machine tool rigidity is required.

C1 carbide is primarily for steel applications. This carbide offers wear characteristics similar to C5 carbide. In addition to its wear characteristics C1 carbide is considerably more durable when compared to other carbide grades.

C2 is for use in non-ferrous applications (high temperature alloys, stainless steels, aluminums, cast irons). It offers exceptionally high wear resistance. High machine tool rigidity is required.

GEN2 T-A

Series - C2 / Series 1						
	Price		TiAlN		TiN	
Cutting Diameter (Inch/Metric)	Order No.	Price	Order No.	Price	Order No.	Price
45/64	BA524C21H703	Price	BA521C21A703	Price	BA521C21T703	Price
23/32	BA524C21H0023	Price	BA521C21A0023	Price	BA521C21T0023	Price
47/64	BA524C21H734	Price	BA521C21A734	Price	BA521C21T734	Price
3/4	BA524C21H0024	Price	BA521C21A0024	Price	BA521C21T0024	Price
49/64	BA524C21H765	Price	BA521C21A765	Price	BA521C21T765	Price
25/32	BA524C21H0025	Price	BA521C21A0025	Price	BA521C21T0025	Price
51/64	BA524C21H796	Price	BA521C21A796	Price	BA521C21T796	Price
13/16	BA524C21H0026	Price	BA521C21A0026	Price	BA521C21T0026	Price
27/32	BA524C21H0027	Price	BA521C21A0027	Price	BA521C21T0027	Price
55/64	BA524C21H859	Price	BA521C21A859	Price	BA521C21T859	Price
7/8	BA524C21H0028	Price	BA521C21A0028	Price	BA521C21T0028	Price
57/64	BA524C21H890	Price	BA521C21A890	Price	BA521C21T890	Price
29/32	BA524C21H0029	Price	BA521C21A0029	Price	BA521C21T0029	Price
59/64	BA524C21H921	Price	BA521C21A921	Price	BA521C21T921	Price
15/16	BA524C21H0030	Price	BA521C21A0030	Price	BA521C21T0030	Price
18mm	BA524C21H18	Price	-	-	-	-
18.5mm	BA524C21H185	Price	-	-	-	-
19mm	BA524C21H19	Price	-	-	-	-
19.5mm	BA524C21H195	Price	-	-	-	-
20mm	BA524C21H20	Price	-	-	-	-
20.5mm	BA524C21H205	Price	-	-	-	-
21mm	BA524C21H21	Price	-	-	-	-
22mm	BA524C21H22	Price	-	-	-	-
24mm	-	-	BA521C21A24	54.85	-	-

Series 1 - Blade Thickness - 5/32”

GEN2 T-A

Series - C1 / Series 1		
	AM200	
Cutting Diameter (Inch/Metric)	Order No.	Price
45/64	BA524C11H703	Price
23/32	BA524C11H0023	Price
47/64	BA524C11H734	Price
3/4	BA524C11H0024	Price
49/64	BA524C11H765	Price
25/32	BA524C11H0025	Price
51/64	BA524C11H796	Price
13/16	BA524C11H0026	Price
27/32	BA524C11H0027	Price
55/64	BA524C11H859	Price
7/8	BA524C11H0028	Price
57/64	BA524C11H890	Price
29/32	BA524C11H0029	Price
59/64	BA524C11H921	Price
15/16	BA524C11H0030	Price
18mm	BA524C11H18	Price
18.5mm	BA524C11H185	Price
19mm	BA524C11H19	Price
19.5mm	BA524C11H195	Price
20mm	BA524C11H20	Price
20.5mm	BA524C11H205	Price
21mm	BA524C11H21	Price
22mm	BA524C11H22	Price
23mm	BA524C11H23	Price
24mm	BA524C11H24	Price

Series 2 - Blade Thickness - 3/16”

GEN2 T-A

Series - C1 / Series 2		
	AM200	
Cutting Diameter (Inch/Metric)	Order No.	Price
31/32	BA524C12H0031	Price
1	BA524C12H0100	Price
1-1/32	BA524C12H0101	Price
1-3/64	BA524C12H1046	Price
1-1/16	BA524C12H0102	Price
1-3/32	BA524C12H0103	Price
1-7/64	BA524C12H1109	Price
1-1/8	BA524C12H0104	Price
1-5/32	BA524C12H0105	Price
1-3/16	BA524C12H0106	Price
1-7/32	BA524C12H0107	Price
1-1/4	BA524C12H0108	Price
1-9/32	BA524C12H0109	Price
1-5/16	BA524C12H0110	Price
1-11/32	BA524C12H0111	Price
1-3/8	BA524C12H0112	Price
63/64 / 25mm	BA524C12H25	Price
26mm	BA524C12H26	Price
27mm	BA524C12H27	Price
28mm	BA524C12H28	Price
29mm	BA524C12H29	Price
30mm	BA524C12H30	Price
31mm	BA524C12H31	Price
32mm	BA524C12H32	Price
33mm	BA524C12H33	Price
34mm	BA524C12H34	Price
35mm	BA524C12H35	Price

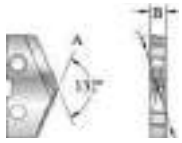
Series 2 - Blade Thickness - 3/16”

GEN2 T-A

Series - C2 / Series 2						
	AM200		TiAlN		TiN	
Cutting Diameter (Inch/Metric)	Order No.	Price	Order No.	Price	Order No.	Price
31/32	BA524C22H0031	Price	BA521C22A0031	Price	BA521C22T0031	Price
1	BA524C22H0100	Price	BA521C22A0100	Price	BA521C22T0100	Price
1-1/32	BA524C22H0101	Price	BA521C22A0101	Price	BA521C22T0101	Price
1-3/64	BA524C22H1046	Price	BA521C22A1046	Price	BA521C22T1046	Price
1-1/16	BA524C22H0102	Price	BA521C22A0102	Price	BA521C22T0102	Price
1-3/32	BA524C22H0103	Price	BA521C22A0103	Price	BA521C22T0103	Price
1-7/64	BA524C22H1109	Price	BA521C22A1109	Price	BA521C22T1109	Price
1-1/8	BA524C22H0104	Price	BA521C22A0104	Price	BA521C22T0104	Price
1-5/32	BA524C22H0105	Price	BA521C22A0105	Price	BA521C22T0105	Price
1-3/16	BA524C22H0106	Price	BA521C22A0106	Price	BA521C22T0106	Price
1-7/32	BA524C22H0107	Price	BA521C22A0107	Price	BA521C22T0107	Price
1-1/4	BA524C22H0108	Price	BA521C22A0108	Price	BA521C22T0108	Price
1-9/32	BA524C22H0109	Price	BA521C22A0109	Price	BA521C22T0109	Price
1-5/16	BA524C22H0110	Price	BA521C22A0110	Price	BA521C22T0110	Price
1-11/32	BA524C22H0111	Price	BA521C22A0111	Price	BA521C22T0111	Price
1-3/8	BA524C22H0112	Price	BA521C22A0112	Price	BA521C22T0112	Price

Solid Carbide T-A® Drill Inserts

(continued from previous page)





Series 2 - Blade Thickness - 3/16”

Series - C5 / Series 2				
	TiAlN		TiN	
Cutting Diameter (Inch/ Metric)	Order No.	Price	Order No.	Price
31/32	**BA521C52A0031**	Price	**BA521C52T0031**	Price
1	**BA521C52A0100**	Price	**BA521C52T0100**	Price
1-1/32	**BA521C52A0101**	Price	**BA521C52T0101**	Price
1-3/64	**BA521C52A1046**	Price	**BA521C52T1046**	Price
1-1/16	**BA521C52A0102**	Price	**BA521C52T0102**	Price
1-3/32	**BA521C52A0103**	Price	**BA521C52T0103**	Price
1-7/64	**BA521C52A1109**	Price	**BA521C52T1109**	Price
1-1/8	**BA521C52A0104**	Price	**BA521C52T0104**	Price
1-5/32	**BA521C52A0105**	Price	**BA521C52T0105**	Price
1-3/16	**BA521C52A0106**	Price	**BA521C52T0106**	Price
1-7/32	**BA521C52A0107**	Price	**BA521C52T0107**	Price
1-1/4	**BA521C52A0108**	Price	**BA521C52T0108**	Price
1-9/32	**BA521C52A0109**	Price	**BA521C52T0109**	Price
1-5/16	**BA521C52A0110**	Price	**BA521C52T0110**	Price
1-11/32	**BA521C52A0111**	Price	**BA521C52T0111**	Price
1-3/8	**BA521C52A0112**	Price	**BA521C52T0112**	Price
63/64 / 25mm	**BA521C52A25**	Price	**BA521C52T25**	Price
26mm	**BA521C52A26**	Price	**BA521C52T26**	Price
27mm	**BA521C52A27**	Price	**BA521C52T27**	Price
28mm	**BA521C52A28**	Price	**BA521C52T28**	Price
29mm	**BA521C52A29**	Price	**BA521C52T29**	Price
30mm	**BA521C52A30**	Price	**BA521C52T30**	Price
31mm	**BA521C52A31**	Price	**BA521C52T31**	Price
32mm	**BA521C52A32**	Price	**BA521C52T32**	Price
33mm	**BA521C52A33**	Price	**BA521C52T33**	Price
34mm	**BA521C52A34**	Price	**BA521C52T34**	Price
35mm	**BA521C52A35**	Price	**BA521C52T35**	Price

C5 carbide is for general use in steel applications. It offers exceptionally high wear resistance. High machine tool rigidity is required.

C1 carbide is primarily for steel applications. This carbide offers wear characteristics similar to C5 carbide. In addition to its wear characteristics C1 carbide is considerably more durable when compared to other carbide grades.

C2 is for use in non-ferrous applications (high temperature alloys, stainless steels, aluminums, cast irons). It offers exceptionally high wear resistance. High machine tool rigidity is required.

Series 3 - Blade Thickness - 1/4”

Material - C2 / Series 3				
	TiAlN		TiN	
Cutting Diameter (Inch/Metric)	Order No.	Price	Order No.	Price
1-13/32	**BA521C23A0113**	Price	**BA521C23T0113**	Price
1-7/16	**BA521C23A0114**	Price	**BA521C23T0114**	Price
1-15/32	**BA521C23A0115**	Price	**BA521C23T0115**	Price
1-1/2	**BA521C23A0116**	Price	**BA521C23T0116**	Price
1-17/32	**BA521C23A0117**	Price	**BA521C23T0117**	Price
1-9/16	**BA521C23A0118**	Price	**BA521C23T0118**	Price
1-19/32	**BA521C23A0119**	Price	**BA521C23T0119**	Price
1-5/8	**BA521C23A0120**	Price	**BA521C23T0120**	Price
1-21/32	**BA521C23A0121**	Price	**BA521C23T0121**	Price
1-11/16	**BA521C23A0122**	Price	**BA521C23T0122**	Price
1-23/32	**BA521C23A0123**	Price	**BA521C23T0123**	Price
1-3/4	**BA521C23A0124**	Price	**BA521C23T0124**	Price
1-25/32	**BA521C23A0125**	Price	**BA521C23T0125**	Price
1-13/16	**BA521C23A0126**	Price	**BA521C23T0126**	Price
1-27/32	**BA521C23A0127**	Price	**BA521C23T0127**	Price
1-7/8	**BA521C23A0128**	Price	**BA521C23T0128**	Price
36mm	**-**	-	**BA521C23T36**	Price
37mm	**-**	-	**BA521C23T37**	Price
38mm	**-**	-	**BA521C23T38**	Price
39mm	**-**	-	**BA521C23T39**	Price
40mm	**-**	-	**BA521C23T40**	Price
41mm	**-**	-	**BA521C23T41**	Price
42mm	**-**	-	**BA521C23T42**	Price
43mm	**-**	-	**BA521C23T43**	Price
44mm	**-**	-	**BA521C23T44**	Price
45mm	**-**	-	**BA521C23T45**	Price
46mm	**-**	-	**BA521C23T46**	Price
47mm	**-**	-	**BA521C23T47**	Price

Material - C5 / Series 3				
	TiAlN		TiN	
Cutting Diameter (Inch/Metric)	Order No.	Price	Order No.	Price
1-13/32	**BA521C53A0113**	Price	**BA521C53T0113**	Price
1-7/16	**BA521C53A0114**	Price	**BA521C53T0114**	Price
1-15/32	**BA521C53A0115**	Price	**BA521C53T0115**	Price
1-1/2	**BA521C53A0116**	Price	**BA521C53T0116**	Price
1-17/32	**BA521C53A0117**	Price	**BA521C53T0117**	Price
1-9/16	**BA521C53A0118**	Price	**BA521C53T0118**	Price
1-19/32	**BA521C53A0119**	Price	**BA521C53T0119**	Price
1-5/8	**BA521C53A0120**	Price	**BA521C53T0120**	Price
1-21/32	**BA521C53A0121**	Price	**BA521C53T0121**	Price
1-11/16	**BA521C53A0122**	Price	**BA521C53T0122**	Price
1-23/32	**BA521C53A0123**	Price	**BA521C53T0123**	Price
1-3/4	**BA521C53A0124**	Price	**BA521C53T0124**	Price
1-25/32	**-**	-	**BA521C53T0125**	Price
1-13/16	**BA521C53A0126**	Price	**BA521C53T0126**	Price
1-27/32	**BA521C53A0127**	Price	**BA521C53T0127**	Price
1-7/8	**BA521C53A0128**	Price	**BA521C53T0128**	Price

Replacement Screws & Fastening Tools

for T-A® Style Holders

Price	Torx Driver		Torx Plus Screws-10/Pack	
T-A Series	Order No.	Price	Order No.	Price
0	**-**	-	**BA5272556IP810**	Price
0.5	**-**	-	**BA5272567IP810**	Price
1	**-**	-	**BA527375IP910**	Price
1.5	**-**	-	**BA52739IP910**	Price
0, 0.5	**BA528IP8**	Price	**-**	-
1, 1.5	**BA528IP9**	Price	**-**	-

Price	Torx Driver		Torx Plus Screws-10/Pack	
T-A Series	Order No.	Price	Order No.	Price
2, 2.5	**BA528IP15**	Price	**BA527495IP1510**	Price
3, 4	**BA528IP20**	Price	**BA527514IP2010**	Price
5 - 8	**BA528IP25**	Price	**BA527619IP2510**	Price
Y	**-**	-	**BA52724IP710**	Price
Y, Z	**BA528IP7**	Price	**-**	-
Z	**-**	-	**BA527247IP710**	Price

Allied T-A® Drill Insert Flanged Shank Holders

Coolant Fed

- Available with a larger body diameter than the standard series, which yields added support for drill inserts and higher inertial strength. This reduces holder failure in high torque applications. Call for pricing.
- T-A® Drill Insert holders are also available in XL and 3XL lengths including metric versions of most sizes. Call for pricing.
- When using the extended, long, XL and 3XL holders without a support bushing, AMEC recommends using a short T-A® holder to establish an initial hole two to three times diameters deep
- Never start or continue rotation of this tool holder without proper engagement with a work piece or fixture. Failure to do so could result in tool failure and/or personal injury.
- Rotary coolant adapters (for taper shank holders) are sold separately.





Series	Blade Size Cutting Range (in.)	Max. Drill Depth (in.)	Flute Length. (in.)	Reference Length. (in.)	OAL (in.)	Shank (in.)	Shank Length. (in.)	Flute Type	Pipe Tap (in.)	Order No.	Price
0	33/64 - 11/16	1-3/8	2-1/2	2-39-6/4	4-17/32	3/4	2-1/32	Straight	1/8	**BA5522000S075F**	Price
0	33/64 - 11/16	4-1/2	5-5/8	5-47/64	7-21/32	3/4	2-1/32	Helical	1/8	**BA5525000H075F**	Price
0	33/64 - 11/16	2-1/2	3-5/8	3-47/64	5-21/32	3/4	2-1/32	Helical	1/8	**BA5524000H075F**	Price
1	45/64 - 15/16	2-5/8	4-7/32	4-23/64	6-1/2	1	2-9/32	Straight	1/8	**BA5522010S100F**	Price
1	45/64 - 15/16	4-5/8	6-3/32	6-15/64	8-3/8	1	2-9/32	Helical	1/8	**BA5523010H100F**	Price
1	45/64 - 15/16	6-5/8	8-3/32	8-15/64	10-3/8	1	2-9/32	Helical	1/8	**BA5524010H100F**	Price
1	45/64 - 15/16	10-5/8	12-3/32	12-15/64	14-3/8	1	2-9/32	Helical	1/8	**BA5525010H100F**	Price
2	31/32 - 1-3/8	3-3/8	5-1/16	5-13/64	7-11/32	1-1/4	2-9/32	Straight	1/4	**BA5522020S125F**	Price
2	31/32 - 1-3/8	5-3/8	7-1/16	7-13/64	9-11/32	1-1/4	2-9/32	Helical	1/4	**BA5523020H125F**	Price
2	31/32 - 1-3/8	7-3/8	9-1/16	9-13/64	11-11/32	1-1/4	2-9/32	Helical	1/4	**BA5524020H125F**	Price
2	31/32 - 1-3/8	11-3/8	13-1/16	13-13/64	15-11/32	1-1/4	2-9/32	Helical	1/4	**BA5525020H125F**	Price
3	1-13/32 - 1-7/8	4-3/4	6-13/16	7	9-1/2	1-1/2	2-11/16	Straight	1/4	**BA5522030S150F**	Price
3	1-13/32 - 1-7/8	6-1/2	8-9/16	8-3/4	11-1/4	1-1/2	2-11/32	Helical	1/4	**BA5523030H150F**	Price
3	1-13/32 - 1-7/8	8-1/4	10-5/16	10-1/2	13	1-1/2	2-11/16	Helical	1/4	**BA5524030H150F**	Price
4	1-29/32 - 2-9/16	5-1/8	7-1/16	7-1/4	9-3/4	1-1/2	2-11/16	Straight	1/4	**BA5522040S150F**	Price
4	1-29/32 - 2-9/16	9-1/8	11-1/16	11-1/4	13-3/4	1-1/2	2-11/16	Helical	1/4	**BA5524040H150F**	Price
Y	3/8 - 27/64	1-1/4	2-13/32	2-1/2	4-7/16	3/4	2-1/32	Straight	1/8	**BA55220Y0S075F**	Price
Y	3/8 - 27/64	2-3/8	3-17/32	3-5/8	5-9/16	3/4	2-1/32	Helical	1/8	**BA55240Y0H075F**	Price
Y	3/8 - 27/64	4-3/8	5-17/32	5-5/8	7-9/16	3/4	2-1/32	Helical	1/8	**BA55250Y0H075F**	Price
Z	7/16 - 1/2	1-1/4	2-13/32	2-1/2	4-7/16	3/4	2-1/32	Straight	1/8	**BA55220Z0S075F**	Price
Z	7/16 - 1/2	2-3/8	3-17/32	3-5/8	5-9/16	3/4	2-1/32	Helical	1/8	**BA55240Z0H075F**	Price
Z	7/16 - 1/2	4-3/8	5-17/32	5-5/8	7-9/16	3/4	2-1/32	Helical	1/8	**BA55250Z0H075F**	Price

Allied Rotary Coolant Adapters

- These adapters are used with holders having snap ring grooves
- Easy to install and may be removed from holder in minutes



RCA Adapter No.	Inside Dia. (in.)	Outside Dia. (in.)	OAL (in.)	Pipe Tap	Order No.	Price
2T-2SR	3/4	1-3/4	7/8	1/8	**BA552T2SR**	Price
2T-3SR	1	2-1/8	1-1/8	1/8	**BA552T3SR**	Price
2T-4SR	1-1/4	2-1/2	1-3/8	1/4	**BA552T4SR**	Price
2T-5SR	1-3/4	3	1-3/8	1/4	**BA552T5SR**	Price
2T-6SR	2-1/4	3-3/4	1-3/4	1/2	**BA552T6SR**	Price

RCA repair kits are also available. Call for pricing.

Allied T-A® Drill Insert Straight Shank Holders Straight Flute Coolant Fed

Series	Blade Size Cutting Range (in.)	Max. Drill Depth (in.)	Flute Length (in.)	Reference Length (in.)	OAL (in.)	Shank (in.)	Shank Length (in.)	Pipe Tap (in.)	Order No.	Price
0	33/64 - 11/16	1-3/8	2-3/16	2-19/64	4-9/16	3/4	2-3/8	1/8	**BA5522000S075L**	Price
0	33/64 - 11/16	2-1/2	3-5/16	3-27/64	5-11/16	3/4	2-3/8	1/8	**BA5524000S075L**	Price
0	33/64 - 11/16	4-1/2	5-5/16	5-27/64	7-11/16	3/4	2-3/8	1/8	**BA5525000S075L**	Price
1	45/64 - 15/16	10-5/8	11-7/8	12-1/64	14-7/8	1	3	1/8	**BA5525010S100L**	Price
1	45/64 - 15/16	2-5/8	3-7/8	4-1/64	6-7/8	1	3	1/8	**BA5522010S100L**	Price
1	45/64 - 15/16	2-5/8	3-7/8	4-1/64	6-7/8	3/4	3	1/8	**BA5522010S075L**	Price
1	45/64 - 15/16	6-5/8	7-7/8	8-1/64	10-7/8	1	3	1/8	**BA5524010S100L**	Price
1	45/64 - 15/16	6-5/8	7-7/8	8-1/64	10-7/8	3/4	3	1/8	**BA5524010S075L**	Price
2	31/32 - 1-3/8	11-3/8	12-1/2	12-41/64	16	1-1/4	3-1/2	1/8	**BA5525020S125L**	Price
2	31/32 - 1-3/8	3-3/8	4-1/2	4-41/64	8	1	3-1/2	1/8	**BA5522020S100L**	Price
2	31/32 - 1-3/8	3-3/8	4-1/2	4-41/64	8	1-1/4	3-1/2	1/8	**BA5522020S125L**	Price
2	31/32 - 1-3/8	7-3/8	8-1/2	8-41/64	12	1	3-1/2	1/8	**BA5524020S100L**	Price
2	31/32 - 1-3/8	7-3/8	8-1/2	8-41/64	12	1-1/4	3-1/2	1/8	**BA5524020S125L**	Price
3	1-13/32 - 1-7/8	4-3/4	6	6-3/16	10	1-1/2	4	1/4	**BA5522030S150L**	Price
3	1-13/32 - 1-7/8	4-3/4	6	6-3/16	10	1-1/4	4	1/4	**BA5522030S125L**	Price
3	1-13/32 - 1-7/8	6-1/2	7-3/4	7-15/16	11-3/4	1-1/2	4	1/4	**BA5523030S150L**	Price
3	1-13/32 - 1-7/8	8-1/4	9-1/2	9-11/16	13-1/2	1-1/2	4	1/4	**BA5524030S150L**	Price
3	1-13/32 - 1-7/8	8-1/4	9-1/2	9-11/16	13-1/2	1-1/4	4	1/4	**BA5524030S125L**	Price
4	1-29/32 - 2-9/16	5-1/8	6-1/2	6-11/16	10-1/2	1-1/2	4	1/4	**BA5522040S150L**	Price
4	1-29/32 - 2-9/16	5-1/8	6-1/2	6-11/16	10-1/2	1-3/4	4	1/4	**BA5522040S175L**	Price
4	1-29/32 - 2-9/16	9-1/8	10-1/2	10-11/16	14-1/2	1-1/2	4	1/4	**BA5524040S150L**	Price
4	1-29/32 - 2-9/16	9-1/8	10-1/2	10-11/16	14-1/2	1-3/4	4	1/4	**BA5524040S175L**	Price
5 - 6	2-1/2 - 3-1/2	10-3/4	12-1/2	12-3/4	16-1/2	2	4	1/2	**BA5524050S200L**	Price
5 - 6	2-1/2 - 3-1/2	6-3/4	8-1/2	8-3/4	12-1/8	2	4	1/2	**BA5522050S200L**	Price
7 - 8	3-17/32 - 4-1/2	10-3/4	12-7/8	13-1/8	17-7/8	3	5	1/2	**BA5524070S300L**	Price
7 - 8	3-17/32 - 4-1/2	6-3/4	8-7/8	9-1/8	13-7/8	3	5	1/2	**BA5522070S300L**	Price
Y	3/8 - 27/64	1-1/4	2-1/32	2-1/8	4-13/32	3/4	2-3/8	1/8	**BA55220Y0S075L**	Price
Y	3/8 - 27/64	2-3/8	3-5/32	3-1/4	5-17/32	3/4	2-3/8	1/8	**BA55240Y0S075L**	Price
Y	3/8 - 27/64	4-3/8	5-5/32	5-1/4	7-17/32	3/4	2-3/8	1/8	**BA55250Y0S075L**	Price
Z	7/16 - 1/2	1-1/4	2-1/32	2-1/8	4-13/32	3/4	2-3/8	1/8	**BA55220Z0S075L**	Price
Z	7/16 - 1/2	2-3/8	3-5/32	3-1/4	5-17/32	3/4	2-3/8	1/8	**BA55240Z0S075L**	Price
Z	7/16 - 1/2	4-3/8	5-5/32	5-1/4	7-17/32	3/4	2-3/8	1/8	**BA55250Z0S075L**	Price

T-A® Drill Insert Holders Coolant Fed Taper Shank





Series	Blade Size Cutting Range (in.)	Max. Drill Depth (in.)	Flute Length (in.)	Reference Length (in.)	OAL (in.)	Shank (in.)	Flute Type	Pipe Tap (in.)	Coolant Adaptor	Order No.	Price
0	33/64 - 11/16	1-3/8	2-3/16	3-41/64	6-15/32	2MT	Straight	1/16	2T2SR	**BA5522000S002I**	Price
0	33/64 - 11/16	2-1/2	3-5/16	4-49/64	7-19/32	2MT	Helical	1/16	2T2SR	**BA5524000H002I**	Price
0	33/64 - 11/16	4-1/2	5-5/16	6-49/64	9-19/32	2MT	Helical	1/16	2T2SR	**BA5525000H002I**	Price
1	45/64 - 15/16	2-3/4	3-7/8	5-39/64	9-5/32	3MT	Straight	1/8	2T3SR	**BA5522010S003I**	Price
1	45/64 - 15/16	4-3/4	5-7/8	7-39/64	11-5/32	3MT	Helical	1/8	2T3SR	**BA5523010H003I**	Price
1	45/64 - 15/16	6-3/4	7-7/8	9-39/64	13-5/32	3MT	Helical	1/8	2T3SR	**BA5524010H003I**	Price
1	45/64 - 15/16	10-3/4	11-7/8	13-39/64	17-5/32	3MT	Helical	1/8	2T3SR	**BA5525010H003I**	Price
1	45/64 - 15/16	2-3/4	3-7/8	5-43/64	10-5/32	4MT	Straight	1/8	2T3SR	**BA5522010S004I**	Price
1	45/64 - 15/16	6-3/4	7-7/8	9-43/64	14-5/32	4MT	Helical	1/8	2T3SR	**BA5524010H004I**	Price
2	31/32 - 1-3/8	3-3/8	4-1/2	6-15/64	9-25/32	3MT	Straight	1/8	2T3SR	**BA5522020S003I**	Price
2	31/32 - 1-3/8	7-3/8	8-1/2	10-15/64	13-25/32	3MT	Helical	1/8	2T3SR	**BA5524020H003I**	Price
2	31/32 - 1-3/8	3-3/8	4-1/2	6-19/64	10-25/32	4MT	Straight	1/8	2T3SR	**BA5522020S004I**	Price
2	31/32 - 1-3/8	5-3/8	6-1/2	8-19/64	12-25/32	4MT	Helical	1/8	2T3SR	**BA5523020H004I**	Price
2	31/32 - 1-3/8	7-3/8	8-1/2	10-19/64	14-25/32	4MT	Helical	1/8	2T3SR	**BA5524020H004I**	Price
2	31/32 - 1-3/8	11-3/8	12-1/2	14-15/64	18-25/32	4MT	Helical	1/8	2T3SR	**BA5525020H004I**	Price
3	1-13/32 - 1-7/8	4-3/4	6	8-1/8	12-9/16	4MT	Straight	1/4	2T4SR	**BA5522030S004I**	Price
3	1-13/32 - 1-7/8	6-1/2	7-3/4	9-7/8	14-5/16	4MT	Straight	1/4	2T4SR	**BA5523030S004I**	Price
3	1-13/32 - 1-7/8	8-1/4	9-1/2	11-5/8	16-1/16	4MT	Straight	1/4	2T4SR	**BA5524030S004I**	Price
3	1-13/32 - 1-7/8	4-3/4	6	8-1/8	13-13/16	5MT	Straight	1/4	2T5SR	**BA5522030S005I**	Price
3	1-13/32 - 1-7/8	8-1/4	9-1/2	11-5/8	17-5/16	5MT	Straight	1/4	2T5SR	**BA5524030S005I**	Price
4	1-29/32 - 2-9/16	5-1/8	6-1/2	8-5/8	13-1/16	4MT	Straight	1/4	2T4SR	**BA5522040S004I**	Price
4	1-29/32 - 2-9/16	9-1/8	10-1/2	12-5/8	17-1/16	4MT	Straight	1/4	2T4SR	**BA5524040S004I**	Price
4	1-29/32 - 2-9/16	5-1/8	6-1/2	8-5/8	14-5/16	5MT	Straight	1/4	2T5SR	**BA5522040S005I**	Price
4	1-29/32 - 2-9/16	9-1/8	10-1/2	12-5/8	18-5/16	5MT	Straight	1/4	2T5SR	**BA5524040S005I**	Price
5 - 6	2-1/2 - 3-1/2	6-3/4	8-1/2	11-5/16	16-15/16	5MT	Straight	1/2	2T6SR	**BA5522050S005I**	Price
5 - 6	2-1/2 - 3-1/2	10-3/4	12-1/2	15-5/16	20-15/16	5MT	Straight	1/2	2T6SR	**BA5524050S005I**	Price
7 - 8	3-17/32 - 4-1/2	6-3/4	8-7/8	11-11/16	17-5/16	5MT	Straight	1/2	2T6SR	**BA5522070S005I**	Price
7 - 8	3-17/32 - 4-1/2	10-3/4	12-7/8	15-11/16	21-5/16	5MT	Straight	1/2	2T6SR	**BA5524070S005I**	Price
Y	3/8 - 27/64	1-1/4	2-1/32	3-15/32	6-5/16	2MT	Straight	1/16	2T2SR	**BA55220Y0S002I**	Price
Y	3/8 - 27/64	2-3/8	3-5/32	4-19/32	7-7/16	2MT	Helical	1/16	2T2SR	**BA55240Y0H002I**	Price
Y	3/8 - 27/64	4-3/8	5-5/32	6-19/32	9-7/16	2MT	Helical	1/16	2T2SR	**BA55250Y0H002I**	Price
Z	7/16 - 1/2	1-1/4	2-1/32	3-15/32	6-5/16	2MT	Straight	1/16	2T2SR	**BA55220Z0S002I**	Price
Z	7/16 - 1/2	2-3/8	3-5/32	4-19/32	7-7/16	2MT	Helical	1/16	2T2SR	**BA55240Z0H002I**	Price
Z	7/16 - 1/2	4-3/8	5-5/32	6-19/32	9-7/16	2MT	Helical	1/16	2T2SR	**BA55250Z0H002I**	Price

GEN3SYS™ Coolant Fed Drill Bodies

MADE IN THE USA

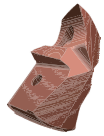












Fractional Size

- Holders have a highly precise locating pad which ensures absolute repeatability and reductions in TIR
- Precision ground locating slot
- 1/8 NPT coolant port

Note: all part numbers ending with “C” have round shanks, “F” means shank has flats.

Series - 12

Length	Shank Dia. (in.)	Shank Length (in.)	Max. Drill Depth (in.)	Body Length (in.)	OAL (in.)	Helical (Machining Center) Order No.	Price	Helical (Machining Center)- Round Shk. Order No.	Price	Straight (Lathe) Order No.	Price
3xD	3/4	2-1/32	1-35/64	2-5/8	4-21/32	BA6060312H075F	Price	BA6060312H075C	Price	BA6060312S075F	Price
5xD	3/4	2-1/32	2-9/16	3-21/32	5-43/64	BA6060512H075F	Price	BA6060512H075C	Price	BA6060512S075F	Price
7xD	3/4	2-1/32	3-19/32	4-25/32	6-45/64	BA6060712H075F	Price	BA6060712H075C	Price	BA6060712S075F	Price

Series - 13

Length	Shank Dia. (in.)	Shank Length (in.)	Max. Drill Depth (in.)	Body Length (in.)	OAL (in.)	Helical (Machining Center) Order No.	Price	Helical (Machining Center)- Round Shk. Order No.	Price	Straight (Lathe) Order No.	Price
3xD	3/4	2-1/32	1-21/32	2-47/64	4-49/64	BA6060313H075F	Price	BA6060313H075C	Price	BA6060313S075F	Price
5xD	3/4	2-1/32	2-49/64	3-53/64	5-55/64	BA6060513H075F	Price	BA6060513H075C	Price	BA6060513S075F	Price
7xD	3/4	2-1/32	3-55/64	4-15/16	6-31/32	BA6060713H075F	Price	BA6060713H075C	Price	BA6060713S075F	Price

Series - 14

Length	Shank Dia. (in.)	Shank Length (in.)	Max. Drill Depth (in.)	Body Length (in.)	OAL (in.)	Helical (Machining Center) Order No.	Price	Helical (Machining Center)- Round Shk. Order No.	Price	Straight (Lathe) Order No.	Price
3xD	3/4	2-1/32	1-25/32	2-55/64	4-55/64	BA6060314H075F	Price	BA6060314H075C	Price	BA6060314S075F	Price
5xD	3/4	2-1/32	2-61/64	4-1/32	6-1/16	BA6060514H075F	Price	BA6060514H075C	Price	BA6060514S075F	Price
7xD	3/4	2-1/32	4-9/64	5-7/32	7-1/4	BA6060714H075F	Price	BA6060714H075C	Price	BA6060714S075F	Price

Series - 15

Length	Shank Dia. (in.)	Shank Length (in.)	Max. Drill Depth (in.)	Body Length (in.)	OAL (in.)	Helical (Machining Center) Order No.	Price	Helical (Machining Center)- Round Shk. Order No.	Price	Straight (Lathe) Order No.	Price
3xD	3/4	2-1/32	1-57/64	2-61/64	4-63/64	BA6060315H075F	Price	BA6060315H075C	Price	BA6060315S075F	Price
5xD	3/4	2-1/32	3-5/32	4-7/32	6-1/4	BA6060515H075F	Price	BA6060515H075C	Price	BA6060515S075F	Price
7xD	3/4	2-1/32	4-27/64	5-31/64	7-1/2	BA6060715H075F	Price	BA6060715H075C	Price	BA6060715S075F	Price

Series - 16

Length	Shank Dia. (in.)	Shank Length (in.)	Max. Drill Depth (in.)	Body Length (in.)	OAL (in.)	Helical (Machining Center) Order No.	Price	Helical (Machining Center)- Round Shk. Order No.	Price	Straight (Lathe) Order No.	Price
3xD	3/4	2-1/32	2-1/64	3-13/64	5-15/64	BA6060316H075F	Price	BA6060316H075C	Price	BA6060316S075F	Price
5xD	3/4	2-1/32	3-23/64	4-35/64	6-37/64	BA6060516H075F	Price	BA6060516H075C	Price	BA6060516S075F	Price
7xD	3/4	2-1/32	4-11/16	5-29/32	7-29/32	BA6060716H075F	Price	BA6060716H075C	Price	BA6060716S075F	Price

Series - 17

Length	Shank Dia. (in.)	Shank Length (in.)	Max. Drill Depth (in.)	Body Length (in.)	OAL (in.)	Helical (Machining Center) Order No.	Price	Helical (Machining Center)- Round Shk. Order No.	Price	Straight (Lathe) Order No.	Price
3xD	3/4	2-1/32	2-1/8	3-5/16	5-15/64	BA6060317H075F	Price	BA6060317H075C	Price	BA6060317S075F	Price
5xD	3/4	2-1/32	3-35/64	4-47/64	6-49/64	BA6060517H075F	Price	BA6060517H075C	Price	BA6060517S075F	Price
7xD	3/4	2-1/32	4-31/32	6-9/64	8-11/64	BA6060717H075F	Price	BA6060717H075C	Price	BA6060717S075F	Price

Series - 18

Length	Shank Dia. (in.)	Shank Length (in.)	Max. Drill Depth (in.)	Body Length (in.)	OAL (in.)	Helical (Machining Center) Order No.	Price	Helical (Machining Center)- Round Shk. Order No.	Price	Straight (Lathe) Order No.	Price
3xD	1	2-9/32	2-3/8	3-45/64	5-63/64	BA6060318H100F	Price	BA6060318H100C	Price	BA6060318S100F	Price
5xD	1	2-9/32	3-15/16	5-9/32	7-9/16	BA6060518H100F	Price	BA6060518H100C	Price	BA6060518S100F	Price
7xD	1	2-9/32	5-33/64	6-55/64	9-9/64	BA6060718H100F	Price	BA6060718H100C	Price	BA6060718S100F	Price

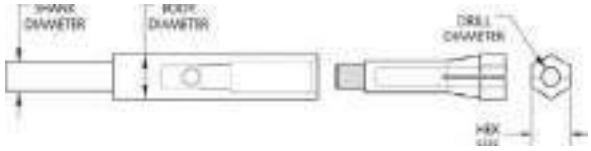
Series - 20

Length	Shank Dia. (in.)	Shank Length (in.)	Max. Drill Depth (in.)	Body Length (in.)	OAL (in.)	Helical (Machining Center) Order No.	Price	Helical (Machining Center)- Round Shk. Order No.	Price	Straight (Lathe) Order No.	Price
3xD	1	2-9/32	2-17/64	3-61/64	6-15/64	BA6060320H100F	Price	BA6060320H100C	Price	BA6060320S100F	Price
5xD	1	2-9/32	4-11/32	5-11/16	7-61/64	BA6060520H100F	Price	BA6060520H100C	Price	BA6060520S100F	Price
7xD	1	2-9/32	6-1/16	7-13/32	9-11/16	BA6060720H100F	Price	BA6060720H100C	Price	BA6060720S100F	Price

WHITNEY TOOL Collet Type Drill Extension System

Holders for Drill Extension System

- 4” & 9” Extension use collets
- Accommodates 1/16” thru 5/16” drills
- Slim profile gets into places that other collet type extensions cannot accommodate
- Threaded type collets eliminate the need for bulky collet nuts
- It’s easy to change collets, no special wrenches required
- A low cost system for difficult to reach spots



4" O.A.L.
Insert the drill into the end and screw down the compression cap to secure in place.
(Above statement for miniatures only)



Series	Length (in.)	Shank Dia. (in.)	Body Dia. (in.)	Order No.	Price
#1	4	1/4	5/16	**EX6596000**	Price
#1	9	1/4	5/16	**EX6596003**	Price
#2	4	1/4	7/16	**EX6596001**	Price
#2	9	1/4	7/16	**EX6596004**	Price
#3	4	3/8	9/16	**EX6596002**	Price
#3	9	3/8	9/16	**EX6596005**	Price

WHITNEY TOOL Collets for Drill Extension System



Series	Description of Collet	Hex Size (in.)	Order No.	Price
#1	1/16	1/4	**EX6596006**	Price
#1	5/64	1/4	**EX6596007**	Price
#1	3/32	1/4	**EX6596009**	Price
#1	7/64	1/4	**EX6596011**	Price
#1	1/8	1/4	**EX6596012**	Price
#1	9/64	1/4	**EX6596014**	Price
#1	5/32	1/4	**EX6596015**	Price
#1	# 21	1/4	**EX6596016**	Price
#1	# 26	1/4	**EX6596305**	Price
#1	# 29	1/4	**EX6596304**	Price
#1	# 30	1/4	**EX6596013**	Price
#1	# 36	1/4	**EX6596302**	Price
#1	# 40	1/4	**EX6596010**	Price
#1	# 43	1/4	**EX6596008**	Price
#1	2mm	1/4	**EX6596301**	Price
#1	3mm	1/4	**EX6596303**	Price
#2	11/64	3/8	**EX6596017**	Price
#2	3/16	3/8	**EX6596018**	Price
#2	13/64	3/8	**EX6596021**	Price
#2	7/32	3/8	**EX6596022**	Price
#2	15/64	3/8	**EX6596023**	Price
#2	1/4	3/8	**EX6596024**	Price
#2	# 10	3/8	**EX6596020**	Price
#2	# 11	3/8	**EX6596019**	Price
#1	4mm	1/4	**EX6596306**	Price
#2	5mm	3/8	**EX6596307**	Price
#3	1/4	7/16	**EX6596025**	Price
#3	17/64	7/16	**EX6596026**	Price
#3	9/32	7/16	**EX6596027**	Price
#3	19/64	7/16	**EX6596028**	Price
#3	5/16	7/16	**EX6596029**	Price
#1	1.5mm	1/4	**EX6596300**	Price
#2	6mm	3/8	**EX6596308**	Price
#3	7mm	7/16	**EX6596311**	Price
#3	8mm	7/16	**EX6596312**	Price
#3	F	7/16	**EX6596309**	Price

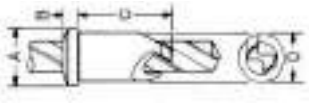
WHITNEY TOOL Miniature Drill Extensions

- 1/8” & 3/16” Diameter extensions
- #80 Drill size thru 1/16”
- Slim profile allows you to reach tight places
- The extension gives you added reach for small size drills
- Integral compression collet lets you change drills easily



	1/8		3/16	
Drill Size	**Order No.**	**Price**	**Order No.**	**Price**
1/64	**EX6596032**	Price	**EX6596059**	Price
1/32	**EX6596044**	Price	**EX6596071**	Price
3/64	**-**	-	**EX6596084**	Price
1/16	**-**	-	**EX6596088**	Price
# 53	**-**	-	**EX6596087**	Price
# 54	**-**	-	**EX6596086**	Price
# 55	**-**	-	**EX6596085**	Price
# 56	**EX6596056**	Price	**EX6596083**	Price
# 57	**EX6596055**	Price	**EX6596082**	Price
# 58	**EX6596054**	Price	**EX6596081**	Price
# 59	**EX6596053**	Price	**EX6596080**	Price
# 60	**EX6596052**	Price	**EX6596079**	Price
# 61	**EX6596051**	Price	**EX6596078**	Price
# 62	**EX6596050**	Price	**EX6596077**	Price
# 63	**EX6596049**	Price	**EX6596076**	Price
# 64	**EX6596048**	Price	**EX6596075**	Price
# 65	**EX6596047**	Price	**EX6596074**	Price
# 66	**EX6596046**	Price	**EX6596073**	Price
# 67	**EX6596045**	Price	**EX6596072**	Price
# 68	**EX6596043**	Price	**EX6596070**	Price
# 69	**EX6596042**	Price	**EX6596069**	Price
# 70	**EX6596041**	Price	**EX6596068**	Price
# 71	**EX6596040**	Price	**EX6596067**	Price
# 72	**EX6596039**	Price	**EX6596066**	Price
# 73	**EX6596038**	Price	**EX6596065**	Price
# 74	**EX6596037**	Price	**EX6596064**	Price
# 75	**EX6596036**	Price	**EX6596063**	Price
# 76	**EX6596035**	Price	**EX6596062**	Price
# 77	**EX6596034**	Price	**EX6596061**	Price
# 78	**EX6596033**	Price	**EX6596060**	Price
# 79	**EX6596031**	Price	**EX6596058**	Price
# 80	**EX6596030**	Price	**EX6596057**	Price
.5mm	**EX6596350**	Price	**EX6596356**	Price
.6mm	**EX6596351**	Price	**EX6596357**	Price
.7mm	**EX6596352**	Price	**EX6596358**	Price
.8mm	**EX6596353**	Price	**EX6596359**	Price
.9mm	**EX6596354**	Price	**EX6596360**	Price
1.5mm	**-**	-	**EX6596362**	Price
1mm	**EX6596355**	Price	**EX6596361**	Price

CHAM-BIT®



- Drill, chamfer and deburr in one operation
- Positioning for drill length can be varied instantly
- Patented locking device prevents any axial movement of Cham-Bit
- Single point cutter assures concentricity
- Drill acts as a pilot to reduce chatter
- Easily resharpened on any drill grinder without damage to the drill
- Can provide an additional chamfer diameter to a multi-diameter drill
- 90° Included angle
- Drill bit not included

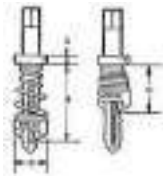


Drill Size	A Base OD (in.)	B Head Length (in.)	C OAL (in.)	D Head OD (in.)	Order No.	Price
1/8	7/16	1/4	5/8	5/16	**BB75CCH1250**	Price
9/64	7/16	1/4	5/8	5/16	**BB75CCH1406**	Price
5/32	7/16	1/4	5/8	5/16	**BB75CCH1560**	Price
11/64	7/16	1/4	5/8	5/16	**BB75CCH1710**	Price
3/16	1/2	1/4	3/4	3/8	**BB75CCH1870**	Price
13/64	1/2	1/4	3/4	3/8	**BB75CCH2030**	Price
7/32	1/2	1/4	3/4	3/8	**BB75CCH2180**	Price
15/64	5/8	1/4	1	1/2	**BB75CCH2350**	Price
1/4	5/8	1/4	1	1/2	**BB75CCH2490**	Price
17/64	5/8	1/4	1	1/2	**BB75CCH2650**	Price
9/32	5/8	1/4	1	1/2	**BB75CCH2812**	Price
19/64	5/8	1/4	1	1/2	**BB75CCH2960**	Price
5/16	3/4	5/16	1-1/4	5/8	**BB75CCH3120**	Price
21/64	3/4	5/16	1-1/4	5/8	**BB75CCH3280**	Price
11/32	3/4	5/16	1-1/4	5/8	**BB75CCH3430**	Price
23/64	3/4	5/16	1-1/4	5/8	**BB75CCH3590**	Price
3/8	3/4	5/16	1-1/4	5/8	**BB75CCH3750**	Price
25/64	3/4	5/16	1-1/4	5/8	**BB75CCH3900**	Price
13/32	3/4	5/16	1-1/4	5/8	**BB75CCH4060**	Price
27/64	3/4	5/16	1-1/4	5/8	**BB75CCH4210**	Price
7/16	3/4	5/16	1-1/4	5/8	**BB75CCH4370**	Price
29/64	15/16	5/16	1-1/2	13/16	**BB75CCH4530**	Price
15/32	15/16	5/16	1-1/2	13/16	**BB75CCH4680**	Price
31/64	15/16	5/16	1-1/2	13/16	**BB75CCH4840**	Price
1/2	15/16	5/16	1-1/2	13/16	**BB75CCH5000**	Price
33/64	15/16	5/16	1-1/2	13/16	**BB75CCH5150**	Price
17/32	15/16	5/16	1-1/2	13/16	**BB75CCH5310**	Price
35/64	15/16	5/16	1-1/2	13/16	**BB75CCH5460**	Price
9/16	15/16	5/16	1-1/2	13/16	**BB75CCH5620**	Price
37/64	15/16	5/16	1-1/2	13/16	**BB75CCH5780**	Price
19/32	15/16	5/16	1-1/2	13/16	**BB75CCH5930**	Price
39/64	15/16	5/16	1-1/2	13/16	**BB75CCH6090**	Price
5/8	1-1/8	5/8	1-5/8	1	**BB75CCH6250**	Price
41/64	1-1/8	5/8	1-5/8	1	**BB75CCH6401**	Price
21/32	1-1/8	5/8	1-5/8	1	**BB75CCH6560**	Price
43/64	1-1/8	5/8	1-5/8	1	**BB75CCH6710**	Price
11/16	1-1/8	5/8	1-5/8	1	**BB75CCH6870**	Price
45/64	1-1/8	5/8	1-5/8	1	**BB75CCH7030**	Price
23/32	1-1/8	5/8	1-5/8	1	**BB75CCH7180**	Price
47/64	1-1/8	5/8	1-5/8	1	**BB75CCH7340**	Price
3/4	1-5/16	7/16	1-3/4	1-3/16	**BB75CCH7500**	Price
49/64	1-5/16	7/16	1-3/4	1-3/16	**BB75CCH7650**	Price
25/32	1-5/16	7/16	1-3/4	1-3/16	**BB75CCH7810**	Price
51/64	1-5/16	7/16	1-3/4	1-3/16	**BB75CCH7960**	Price
13/16	1-5/16	7/16	1-3/4	1-3/16	**BB75CCH8120**	Price
53/64	1-5/16	7/16	1-3/4	1-3/16	**BB75CCH8280**	Price
27/32	1-5/16	7/16	1-3/4	1-3/16	**BB75CCH8430**	Price
55/64	1-5/16	7/16	1-3/4	1-3/16	**BB75CCH8590**	Price
7/8	1-7/16	1/2	2	1-5/16	**BB75CCH8750**	Price
57/64	1-7/16	1/2	2	1-5/16	**BB75CCH8900**	Price
29/32	1-7/16	1/2	2	1-5/16	**BB75CCH9060**	Price
59/64	1-7/16	1/2	2	1-5/16	**BB75CCH9210**	Price
15/16	1-7/16	1/2	2	1-5/16	**BB75CCH9370**	Price
61/64	1-7/16	1/2	2	1-5/16	**BB75CCH9530**	Price
31/32	1-7/16	1/2	2	1-5/16	**BB75CCH9680**	Price
63/64	1-7/16	1/2	2	1-5/16	**BB75CCH9840**	Price
1	1-7/16	1/2	2	1-5/16	**BB75CCH9990**	Price

Also available in wire gage, letter and metric sizes

BURR-BIT





- Deburrs the top of the tapped hole while the tap is being withdrawn from the work piece at standard 120°
- No reversal cut in the chamfer due to tool cutting only in reverse
- Creates a chamfer for easy screw insertion; leaves no burr to clog the tapped hole
- Deburrs to consistent depth even though work pieces vary in thickness
- Easy to install; simply slips over your tap
- Resharpenable with simple radial relief grinding fixture
- Taps not included
- Available up to size 1-1/4" and in metric sizes - price on request
- Also available in 90° - price on request

				2 or 4 Flute Taps		3 Flute Taps	
Tap Size	B Extended Length (in.)	C Shortest Length (in.)	D Head OD (in.)	Order No.	Price	Order No.	Price
#2	7/8	45/64	3/8	**BB7520200**	Price	**BB7520250**	Price
#3	7/8	45/64	3/8	**BB7520300**	Price	**BB7520350**	Price
#4	7/8	45/64	3/8	**BB7520400**	Price	**BB7520450**	Price
#5	55/64	23/32	3/8	**BB7520500**	Price	**BB7520550**	Price
#6	55/64	23/32	3/8	**BB7520600**	Price	**BB7520650**	Price
#8	7/8	45/64	3/8	**BB7520700**	Price	**BB7520750**	Price
#10	1-1/16	25/32	3/8	**BB7520800**	Price	**BB7520850**	Price
#12	1-1/16	25/32	3/8	**BB7520900**	Price	**BB7520950**	Price
1/4	1-9/64	7/8	1/2	**BB7521100**	Price	**BB7521150**	Price
5/16	1-1/4	61/64	9/16	**BB7521200**	Price	**BB7521250**	Price
3/8	1-1/4	61/64	21/32	**BB7521300**	Price	**BB7521350**	Price
7/16	1-27/32	1-11/32	13/16	**BB7521400**	Price	**BB7521450**	Price
1/2	1-47/64	1-15/64	13/16	**BB7521500**	Price	**BB7521550**	Price
9/16	1-23/32	1-7/32	1	**BB7521600**	Price	**BB7521650**	Price
5/8	1-57/64	1-19/64	1	**BB7521700**	Price	**BB7521750**	Price
3/4	2-5/64	1-3/8	1-1/8	**BB7521900**	Price	**BB7521950**	Price

BURR-BIT

Pipe Tap Burr-Bit for Standard NPT and NPS Taps

For Use With - 4 Flute Taps					
Pipe Tap Size	Extended Lgth. B (in.)	Shortest Lgth. C (in.)	Head OD D (in.)	Order No.	Price
1/8 Pipe	1-1/16	19/32	21/32	**BB7541100**	Price
1/4 Pipe	1-5/16	21/32	13/16	**BB7541200**	Price
3/8 Pipe	1-13/32	1	1-1/8	**BB7541300**	Price
1/2 Pipe	1-3/8	7/8	1-1/2	**BB7541400**	Price

For Use With - 5 Flute Taps					
Pipe Tap Size	Extended Lgth. B (in.)	Shortest Lgth. C (in.)	Head OD D (in.)	Order No.	Price
3/4 Pipe	1-1/2	1	1-1/2	**BB7541500**	Price
1 Pipe	1-7/8	1-3/16	1-7/8	**BB7541600**	Price

COUNTER-BIT



- Conical pilot supports cutting edge to assure chatter-free cut
- Will not commence cutting until the pilot or work piece has found the center of the previously drilled hole
- Rubber spring provides "pre-load" for constant pressure, thus helping to eliminate chatter
- Concentric countersinks and chamfers assured
- Replaceable high speed steel blades ground with radial relief, assure smooth cut. (tungsten carbide blades special order)
- Available in 60°, 82°, and 90° (120° special order)
- Straight shank (Morse Taper shank special order)

			Counter-Bit Replacement Blade		Counter-Bit-Complete Tool	
Capacity	Degree	Shank Dia. (in.)	Order No.	Price	Order No.	Price
1/4 to 1-1/8	60	1/2	**BB75CB31060HS**	Price	**BB75CBS1060HS**	Price
1/4 to 1-1/8	82	1/2	**BB75CB31082HS**	Price	**BB75CBS1082HS**	Price
1/4 to 1-1/8	90	1/2	**BB75CB31090HS**	Price	**BB75CBS1090HS**	Price
1/2 to 1-1/2	60	1/2	**BB75CB31560HS**	Price	**BB75CBS1560HS**	Price
1/2 to 1-1/2	82	1/2	**BB75CB31582HS**	Price	**BB75CBS1582HS**	Price
1/2 to 1-1/2	90	1/2	**BB75CB31590HS**	Price	**BB75CBS1590HS**	Price
5/8 to 2-1/2	60	3/4	**BB75CB32060HS**	Price	**BB75CBS2060HS**	Price
5/8 to 2-1/2	82	3/4	**BB75CB32082HS**	Price	**BB75CBS2082HS**	Price
5/8 to 2-1/2	90	3/4	**BB75CB32090HS**	Price	**BB75CBS2090HS**	Price

Available up to 4-1/2" Capacity

Deburring Tools

Front/Rear Cutting or Rear Cuttng Only

- Simple to adjust or change blade in machine holder
- One piece durable, solid steel body
- Proven reliability, no springs or plungers
- Fully adjustable to control cutting pressure and chamfer

						Front/Rear Cutting			Rear Cutting Only		
Hole Dia. (in.)	OAL (in.)	Blade Depth (in.)	Pilot Length (in.)	Shank Length (in.)	Shank Dia. (in.)	Takes Blade Size	Order No.	Price	Takes Blade Size	Order No.	Price
.093	3-3/8	7/16	1-1/4	1	.236	L1A-02	**EB72EZL009302**	Price	L1A-08	**EB72EZL009308**	Price
.098	3-3/8	7/16	1-1/4	1	.236	L1A-02	**EB72EZL009802**	Price	L1A-08	**EB72EZL009808**	Price
.102	3-3/8	7/16	1-1/4	1	.236	L1A-02	**EB72EZL010202**	Price	L1A-08	**EB72EZL010208**	Price
.109	3-3/8	7/16	1-1/4	1	.236	L1A-02	**EB72EZL010902**	Price	L1A-08	**EB72EZL010908**	Price
.118	3-3/8	7/16	1-1/4	1	.236	L1A-02	**EB72EZL011802**	Price	L1A-08	**EB72EZL011808**	Price
.125	3-3/8	7/16	1-1/4	1	.236	L1B-02	**EB72EZL012502**	Price	L1B-08	**EB72EZL012508**	Price
.133	3-3/8	7/16	1-1/4	1	.236	L1B-02	**EB72EZL013302**	Price	L1B-08	**EB72EZL013308**	Price
.140	3-3/8	7/16	1-1/4	1	.236	L1B-02	**EB72EZL014002**	Price	L1B-08	**EB72EZL014008**	Price
.149	3-3/8	7/16	1-1/4	1	.236	L1B-02	**EB72EZL014902**	Price	L1B-08	**EB72EZL014908**	Price
.156	4-1/2	33/64	1-3/4	1-5/16	.250	L2A-02	**EB72EZL015602**	Price	L2A-08	**EB72EZL015608**	Price
.157	4-1/2	33/64	1-3/4	1-5/16	.236	L2A-02	**EB72EZL015702**	Price	L2A-08	**EB72EZL015708**	Price
.177	4-1/2	33/64	1-3/4	1-5/16	.236	L2A-02	**EB72EZL017702**	Price	L2A-08	**EB72EZL017708**	Price
.187	4-1/2	33/64	1-3/4	1-5/16	.250	L2B-02	**EB72EZL018702**	Price	L2B-08	**EB72EZL018708**	Price
.196	4-1/2	33/64	1-3/4	1-5/16	.236	L2B-02	**EB72EZL019602**	Price	L2B-08	**EB72EZL019608**	Price
.216	4-1/2	33/64	1-3/4	1-5/16	.236	L2B-02	**EB72EZL021602**	Price	L2B-08	**EB72EZL021608**	Price
.218	4-1/2	33/64	1-3/4	1-5/16	.250	L2B-02	**EB72EZL021802**	Price	L2B-08	**EB72EZL021808**	Price
.236	4-1/2	33/64	1-3/4	1-5/16	.236	L2B-02	**EB72EZL023602**	Price	L2B-08	**EB72EZL023608**	Price
.250	5	11/16	2	1-1/4	.359	L3A-02	**EB72EZL025002**	Price	L3A-08	**EB72EZL025008**	Price
.255	5	11/16	2	1-1/4	.354	L3A-02	**EB72EZL025502**	Price	L3A-08	**EB72EZL025508**	Price
.275	5	11/16	2	1-1/4	.354	L3A-02	**EB72EZL027502**	Price	L3A-08	**EB72EZL027508**	Price
.295	5	11/16	2	1-1/4	.354	L3A-02	**EB72EZL029502**	Price	L3A-08	**EB72EZL029508**	Price
.312	5	11/16	2	1-1/4	.359	L3A-02	**EB72EZL031202**	Price	L3A-08	**EB72EZL031208**	Price
.314	5	11/16	2	1-1/4	.354	L3A-02	**EB72EZL031402**	Price	L3A-08	**EB72EZL031408**	Price
.334	5	11/16	2	1-1/4	.354	L3A-02	**EB72EZL033402**	Price	L3A-08	**EB72EZL033408**	Price
.343	5	11/16	3-3/4	1-1/4	.348	L3B-02	**EB72EZL034302**	Price	L3B-08	**EB72EZL034308**	Price
.354	5	11/16	3-3/4	1-1/4	.348	L3B-02	**EB72EZL035402**	Price	L3B-08	**EB72EZL035408**	Price
.374	5	11/16	3-3/4	1-1/4	.368	L3B-02	**EB72EZL037402**	Price	L3B-08	**EB72EZL037408**	Price
.375	5	11/16	3-3/4	1-1/4	.370	L3B-02	**EB72EZL037502**	Price	L3B-08	**EB72EZL037508**	Price
.393	5	11/16	3-3/4	1-1/4	.387	L3B-02	**EB72EZL039302**	Price	L3B-08	**EB72EZL039308**	Price
.433	5	11/16	3-3/4	1-1/4	.427	L3B-02	**EB72EZL043302**	Price	L3B-08	**EB72EZL043308**	Price
.437	5	11/16	3-3/4	1-1/4	.432	L3B-02	**EB72EZL043702**	Price	L3B-08	**EB72EZL043708**	Price
.453	5	11/16	3-3/4	1-1/4	.447	L3B-02	**EB72EZL045302**	Price	L3B-08	**EB72EZL045308**	Price
.472	5	11/16	3-3/4	1-1/4	.466	L3B-02	**EB72EZL047202**	Price	L3B-08	**EB72EZL047208**	Price
.492	5	11/16	3-3/4	1-1/4	.486	L3B-02	**EB72EZL049202**	Price	L3B-08	**EB72EZL049208**	Price
.500	5	11/16	3-3/4	1-1/4	.495	L3B-02	**EB72EZL050002**	Price	L3B-08	**EB72EZL050008**	Price
.511	6-1/2	11/16	4-1/2	2	.477	L3B-02	**EB72EZL051102**	Price	L3B-08	**EB72EZL051108**	Price
.531	6-1/2	11/16	4-1/2	2	.477	L3B-02	**EB72EZL053102**	Price	L3B-08	**EB72EZL053108**	Price
.551	6-1/2	11/16	4-1/2	2	.477	L3B-02	**EB72EZL055102**	Price	L3B-08	**EB72EZL055108**	Price
.570	6-1/2	11/16	4-1/2	2	.477	L3B-02	**EB72EZL057002**	Price	L3B-08	**EB72EZL057008**	Price
.590	6-1/2	11/16	4-1/2	2	.477	L3B-02	**EB72EZL059002**	Price	L3B-08	**EB72EZL059008**	Price
.610	6-1/2	11/16	4-1/2	2	.477	L3B-02	**EB72EZL061002**	Price	L3B-08	**EB72EZL061008**	Price
.625	6-1/2	11/16	4-1/2	2	.500	L3B-02	**EB72EZL062502**	Price	L3B-08	**EB72EZL062508**	Price
.629	6-1/2	11/16	4-1/2	2	.477	L3B-02	**EB72EZL062902**	Price	L3B-08	**EB72EZL062908**	Price
.649	6-1/2	11/16	4-1/2	2	.477	L3B-02	**EB72EZL064902**	Price	L3B-08	**EB72EZL064908**	Price
.669	6-1/2	11/16	4-1/2	2	.477	L3B-02	**EB72EZL066902**	Price	L3B-08	**EB72EZL066908**	Price
.708	7	11/16	5	2	.477	L3B-02	**EB72EZL070802**	Price	L3B-08	**EB72EZL070808**	Price
.748	7	11/16	5	2	.477	L3B-02	**EB72EZL074802**	Price	L3B-08	**EB72EZL074808**	Price
.750	7	11/16	5	2	.500	L3B-02	**EB72EZL075002**	Price	L3B-08	**EB72EZL075008**	Price

Replacement Blades for Deburring Tools

Front/Rear Cutting or Rear Cutting Only

- Fit above tools
- Match blade number to above chart for correct sizing

	Front/Rear Cutting			Rear Cutting Only		
Hole Dia. Range (in.)	Model No.	Order No.	Price	Model No.	Order No.	Price
.093 - .118	L1A-02	**EB72L1A02**	Price	L1A-08	**EB72L1A08**	Price
.125 - .153	L1B-02	**EB72L1B02**	Price	L1B-08	**EB72L1B08**	Price
.156 - .177	L2A-02	**EB72L2A02**	Price	L2A-08	**EB72L2A08**	Price
.187 - .236	L2B-02	**EB72L2B02**	Price	L2B-08	**EB72L2B08**	Price
.250 - .334	L3A-02	**EB72L3A02**	Price	L3A-08	**EB72L3A08**	Price
.343 - .750	L3B-02	**EB72L3B02**	Price	L3B-08	**EB72L3B08**	Price

5 Pc. Set of High Speed Steel Deburring Cutters

Front/Rear Cutting

- Deburr the front & rear of a hole in one pass
- Simple to adjust or change blade in machine holder
- One piece durable, solid steel body
- Proven reliability, no springs or plungers
- Fully adjustable to control cutting pressure and chamfer
- Sizes included: 1/8, 5/32, 3/16, 7/32 & 1/4”



Order No.	Price
EB72EZHSSSET	Price

Combined Drills & Countersinks



60° • High Speed Steel • Cobalt

Plain Style

- Used for centering work ends, where the workpiece is to be revolved on machine centers
- 60° Countersink angle fits all standard centers
- Morse List #1495

RAPIDKUT | HSS M GP | PROCUT

			Rapidkut			Morse Cutting Tools			ProCut								
			High Speed Steel			High Speed Steel			High Speed Steel						M-42 Cobalt		
			Plain			Plain			Price			Plain			Plain		
Body Dia. (in.)	Drill Dia. (in.)	OAL (in.)	Size	Order No.	Price	Size	Order No.	Price	Size	Order No.	Price	Size	Order No.	Price	Size	Order No.	Price
1/8	3/64	1-1/4	1	**AV401**	Price	1	**MT1925041**	Price	-	**-**	-	1	**AV501**	Price	1	**AV801**	Price
3/16	5/64	1-7/8	2	**AV402**	Price	2	**MT1925042**	Price	-	**-**	-	2	**AV502**	Price	2	**AV802**	Price
1/4	7/64	2	3	**AV403**	Price	3	**MT1925043**	Price	-	**-**	-	3	**AV503**	Price	3	**AV803**	Price
5/16	1/8	2-1/8	4	**AV404**	Price	4	**MT1925044**	Price	4	**AV704**	Price	4	**AV504**	Price	4	**AV804**	Price
7/16	3/16	2-3/4	5	**AV405**	Price	5	**MT1925045**	Price	5	**AV705**	Price	5	**AV505**	Price	5	**AV805**	Price
1/2	7/32	3	6	**AV406**	Price	6	**MT1925046**	Price	6	**AV706**	Price	6	**AV506**	Price	6	**AV806**	Price
5/8	1/4	3-1/4	7	**AV407**	Price	7	**MT1925047**	Price	-	**-**	-	7	**AV507**	Price	7	**AV807**	Price
3/4	5/16	3-1/2	8	**AV408**	Price	8	**MT1925048**	Price	8	**AV708**	Price	8	**AV508**	Price	8	**AV808**	Price
1	3/8	3-3/4	-	**-**	-	-	**-**	-	-	**-**	-	10	**AV5010**	Price	-	**-**	-

Combined Drills & Countersinks

MADE IN THE USA

60° Plain Type • High Speed Steel



- For producing center holes in components or work-pieces which require machining between centers

					Plain		Plain - TiN Coated		Left Hand	
Size	Body Dia. (in.)	Drill Dia.	Drill Length	OAL	Order No.	Price	Order No.	Price	Order No.	Price
5-0	1/8	.010	.010	1-1/4	**AV4210010†**	Price	**AV4210010TIN†**	Price	**-**	-
4-0	1/8	.015	.015	1-1/4	**AV4210015†**	Price	**AV4210015TIN†**	Price	**-**	-
3-0	1/8	.020	.020	1-1/4	**AV4210020†**	Price	**AV4210020TIN†**	Price	**-**	-
2-0	1/8	.025	.025	1-1/4	**AV4210025†**	Price	**AV4210025TIN†**	Price	**-**	-
0	1/8	1/32	1/32	1-1/4	**AV4210032†**	Price	**AV4210032TIN†**	Price	**-**	-
1	1/8	3/64	3/64	1-1/4	**AV4110100**	Price	**AV4110100TIN**	Price	**AV4210150**	Price
2	3/16	5/64	5/64	1-7/8	**AV4110200**	Price	**AV4110200TIN**	Price	**AV4210250**	Price
3	1/4	7/64	7/64	2	**AV4110300**	Price	**AV4110300TIN**	Price	**AV4210350**	Price
4	5/16	1/8	1/8	2-1/8	**AV4110400**	Price	**AV4110400TIN**	Price	**AV4210450**	Price
4-1/2	3/8	9/64	9/64	2-1/2	**AV4114500**	Price	**AV4114500TIN**	Price	**AV4214550**	Price
5	7/16	3/16	3/16	2-3/4	**AV4110500**	Price	**AV4110500TIN**	Price	**AV4210550**	Price
6	1/2	7/32	7/32	3	**AV4110600**	Price	**AV4110600TIN**	Price	**AV4210650**	Price
7	5/8	1/4	1/4	3-1/4	**AV4110700**	Price	**AV4110700TIN**	Price	**AV4210750**	Price
8	3/4	5/16	5/16	3-1/2	**AV4110800**	Price	**AV4110800TIN**	Price	**AV4210850**	Price
9	7/8	11/32	11/32	3-5/8	**AV4110900**	Price	**AV4110900TIN**	Price	**AV4210950**	Price
10	1	3/8	3/8	3-3/4	**AV4111000**	Price	**AV4111000TIN**	Price	**AV4211050**	Price

† Aircraft series

Metric Combined Drills & Countersinks

High Speed Steel • Type A - 60° Plain Type

- Standard metric sizes according to DIN333 specifications



Size (mm)	Body Dia. (mm)	Drill Dia. (mm)	Drill Length (mm)	OAL (mm)	Order No.	Price
0.5	3.15	0.5	.80	25	**AV4216001†**	Price
0.8	3.15	0.8	1.1	25	**AV4216002†**	Price
1.0	3.15	1.0	1.3	31.5	**AV4216003**	Price
1.25	3.15	1.25	1.6	31.5	**AV4216004**	Price
1.6	4.0	1.6	2.0	35.5	**AV4216040**	Price
2.0	5.0	2.0	2.5	40	**AV4216050**	Price
2.5	6.3	2.5	3.1	45	**AV4216060**	Price
3.15	8.0	3.15	3.9	50	**AV4216080**	Price
4.0	10.0	4.0	5.0	56	**AV4216100**	Price
5.0	12.5	5.0	6.3	63	**AV4216120**	Price
6.3	16.0	6.3	8.0	71	**AV4216160**	Price
8.0	20.0	8.0	10.1	80	**AV4216200**	Price
10.0	25.0	10.0	12.8	100	**AV4216250**	Price
12.5	31.5	12.5	16.5	125	**AV4216310**	Price

†SE denotes single-end

Combined Drills & Countersinks

82° & 90° Plain Type • High Speed Steel



					Uncoated				TiN			
					82°		90°		82°		90°	
Size	Body Dia. (in.)	Drill Dia. (in.)	Drill Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
5-0	1/8	.010	.010	1-1/4	**-**	-	**-**	-	**AV4210038TIN**	Price	**AV4210014TIN†**	Price
4-0	1/8	.015	.015	1-1/4	**-**	-	**-**	-	**AV4210039TIN**	Price	**AV4210019TIN†**	Price
3-0	1/8	.020	.020	1-1/4	**-**	-	**-**	-	**AV4210040TIN**	Price	**AV4210024TIN†**	Price
2-0	1/8	.025	.025	1-1/4	**-**	-	**-**	-	**AV4210029TIN†**	Price	**AV4210030TIN†**	Price
0	1/8	1/32	1/32	1-1/4	**-**	-	**-**	-	**AV4210036TIN†**	Price	**AV4210037TIN†**	Price
1	1/8	3/64	3/64	1-1/4	**AV4210182**	Price	**AV4210190**	Price	**AV4210182TIN**	Price	**AV4210190TIN**	Price
2	3/16	5/64	5/64	1-7/8	**AV4210282**	Price	**AV4210290**	Price	**AV4210282TIN**	Price	**AV4210290TIN**	Price
3	1/4	7/64	7/64	2	**AV4210382**	Price	**AV4210390**	Price	**AV4210382TIN**	Price	**AV4210390TIN**	Price
4	5/16	1/8	1/8	2-1/8	**AV4210482**	Price	**AV4210490**	Price	**AV4210482TIN**	Price	**AV4210490TIN**	Price
4-1/2	3/8	9/64	9/64	2-1/2	**AV4214582**	Price	**AV4214590**	Price	**AV4214582TIN**	Price	**AV4214590TIN**	Price
5	7/16	3/16	3/16	2-3/4	**AV4210582**	Price	**AV4210590**	Price	**AV4210582TIN**	Price	**AV4210590TIN**	Price
6	1/2	7/32	7/32	3	**AV4210682**	Price	**AV4210690**	Price	**AV4210682TIN**	Price	**AV4210690TIN**	Price
7	5/8	1/4	1/4	3-1/4	**AV4210782**	Price	**AV4210790**	Price	**AV4210782TIN**	Price	**AV4210790TIN**	Price
8	3/4	5/16	5/16	3-1/2	**AV4210882**	Price	**AV4210890**	Price	**AV4210882TIN**	Price	**AV4210890TIN**	Price
9	7/8	11/32	11/32	3-5/8	**AV4210982**	Price	**AV4210990**	Price	**AV4210982TIN**	Price	**AV4210990TIN**	Price
10	1	3/8	3/8	3-3/4	**AV4211082**	Price	**AV4211090**	Price	**AV4211082TIN**	Price	**AV4211090TIN**	Price

† Aircraft series

Bell Type Center Drills



High Speed Steel • 60°

- Designed for producing protected center holes in components or workpieces
- Additional 120° included chamfer eliminates the risk of deforming the countersink seat

KEO

Size	Bell Dia. (in.)	Body Dia. (in.)	Drill Dia. (in.)	Drill Length (in.)	OAL (in.)	Order No.	Price
11	.100	1/8	3/64	3/64	1-1/4	**AV4111100**	Price
12	.150	3/16	1/16	1/16	1-7/8	**AV4111200**	Price
13	.200	1/4	3/32	3/32	2	**AV4111300**	Price
14	.250	5/16	7/64	7/64	2-1/8	**AV4111400**	Price
15	.350	7/16	5/32	5/32	2-3/4	**AV4111500**	Price
16	.400	1/2	3/16	3/16	3	**AV4111600**	Price
17	.500	5/8	7/32	7/32	3-1/4	**AV4111700**	Price
18	.600	3/4	1/4	1/4	3-1/2	**AV4111800**	Price
19	.700	7/8	5/16	5/16	3-5/8	**AV4111900**	Price
20	.800	1	3/8	3/8	3-3/4	**AV4112000**	Price

PROCUT

Size	Bell Dia. (in.)	Body Dia. (in.)	Drill Dia. (in.)	Drill Length (in.)	OAL (in.)	Order No.	Price
11	.100	1/8	3/64	3/64	1-1/4	**AV5011**	Price
12	.150	3/16	1/16	5/64	1-7/8	**AV5012**	Price
13	.200	1/4	3/32	7/64	2	**AV5013**	Price
14	.250	5/16	7/64	1/8	2-1/8	**AV5014**	Price
15	.400	7/16	5/32	3/16	2-3/4	**AV5015**	Price
16	.500	1/2	3/16	-	3	**AV5016**	Price
17	.600	5/8	7/32	1/4	3-1/4	**AV5017**	Price
18	.700	3/4	1/4	-	3-1/2	**AV5018**	Price

KEO Radius Type



High Speed Steel

- Radius style designed to reduce the bearing surface of the center hole and provide a protected centering seat while reducing the risk of breakage

Size	Body Dia. (in.)	Drill Dia. (in.)	Drill Length (in.)	OAL (in.)	Radius (in.)	Order No.	Price
1	1/8	3/64	.132	1-1/4	5/32	**AV4110110**	Price
2	3/16	5/64	.204	1-7/8	7/32	**AV4110210**	Price
3	1/4	7/64	.275	2	9/32	**AV4110310**	Price
4	5/16	1/8	11/32	2-1/8	3/8	**AV4110410**	Price
4-1/2	3/8	9/64	13/32	2-1/2	7/16	**AV4114510**	Price
5	7/16	3/16	31/64	2-3/4	1/2	**AV4110510**	Price
6	1/2	7/32	35/64	3	9/16	**AV4110610**	Price
7	5/8	1/4	43/64	3-1/4	45/64	**AV4110710**	Price
8	3/4	5/16	13/16	3-1/2	7/8	**AV4110810**	Price
9	7/8	11/32	15/16	3-5/8	1	**AV4110910**	Price
10	1	3/8	1-1/16	3-3/4	1-7/64	**AV4111010**	Price

Long Series Combined Drills & Countersinks



60° • High Speed Steel

Morse List #1499

PROCUT

				Morse Cutting Tools		ProCut	
Size	OAL (in.)	Body Dia. (in.)	Drill Dia. (in.)	Order No.	Price	Order No.	Price
1	3	1/8	3/64	**MT1925010**	Price	**AV5213X**	Price
1	4	1/8	3/64	**MT1925011**	Price	**AV5214X**	Price
1	5	1/8	3/64	**-**	-	**AV5215X**	Price
1	6	1/8	3/64	**-**	-	**AV5216X**	Price
2	4	3/16	5/64	**MT1925012**	Price	**AV5224X**	Price
2	5	3/16	5/64	**MT1925013**	Price	**AV5225X**	Price
2	6	3/16	5/64	**-**	-	**AV5226X**	Price
3	4	1/4	7/64	**MT1925014**	Price	**AV5234X**	Price
3	5	1/4	7/64	**MT1925015**	Price	**AV5235X**	Price
3	6	1/4	7/64	**-**	-	**AV5236X**	Price
4	4	5/16	1/8	**MT1925016**	Price	**AV5244X**	Price
4	5	5/16	1/8	**MT1925017**	Price	**AV5245X**	Price
4	6	5/16	1/8	**MT1925018**	Price	**AV5246X**	Price
5	4	7/16	3/16	**-**	-	**AV5254X**	Price
5	5	7/16	3/16	**MT1925019**	Price	**AV5255X**	Price
5	6	7/16	3/16	**MT1925020**	Price	**AV5256X**	Price
6	4	1/2	7/32	**-**	-	**AV5264X**	Price
6	5	1/2	7/32	**MT1925021**	Price	**AV5265X**	Price
6	6	1/2	7/32	**MT1925022**	Price	**AV5266X**	Price
7	6	5/8	1/4	**MT1925023**	Price	**AV5276X**	Price
8	6	3/4	5/16	**MT1925024**	Price	**AV5286X**	Price

Missile and Aircraft Series Combined Drills and Countersinks



60° • High Speed Steel

Morse List #1495

HSS M GP PROCUT

					Morse Cutting Tools		ProCut	
Size	Body Dia. (in.)	Drill Dia.	Drill Length	OAL	Order No.	Price	Order No.	Price
000	1/8	.020	.020	1-1/4	**MT1925049**	Price	**-**	-
00	1/8	.025	.025	1-1/4	**MT1925050**	Price	**AV5300**	Price
0	1/8	1/32	1/32	1-1/4	**MT1925051**	Price	**AV530**	Price

KEO Combined Drills & Countersinks 5 Pc. Set #1 - #5



- 60° Plain type
- High speed steel

Order No.	Price
AV4110000	Price

KEO Long Series Combined Drills & Countersinks



60° • High Speed Steel and Carbide

				High Speed Steel		Solid Carbide	
Size	OAL (in.)	Body Dia. (in.)	Drill Dia. (in.)	Order No.	Price	Order No.	Price
2-0	4	1/8	.025	**-**	-	**AV4229004**	Price
2-0	6	1/8	.025	**-**	-	**AV4229006**	Price
0	4	1/8	1/32	**-**	-	**AV4229014**	Price
0	6	1/8	1/32	**-**	-	**AV4229016**	Price
1	3	1/8	3/64	**AV4221030**	Price	**-**	-
1	4	1/8	3/64	**AV4221040**	Price	**AV4229104**	Price
1	5	1/8	3/64	**AV4221050**	Price	**-**	-
1	6	1/8	3/64	**AV4221060**	Price	**AV4229106**	Price
1	8	1/8	3/64	**AV4221080**	Price	**-**	-
2	3	3/16	5/64	**AV4222030**	Price	**-**	-
2	4	3/16	5/64	**AV4222040**	Price	**AV4229204**	Price
2	5	3/16	5/64	**AV4222050**	Price	**-**	-
2	6	3/16	5/64	**AV4222060**	Price	**AV4229206**	Price
2	8	3/16	5/64	**AV4222080**	Price	**-**	-
3	3	1/4	7/64	**AV4223030**	Price	**-**	-
3	4	1/4	7/64	**AV4223040**	Price	**AV4229304**	Price
3	5	1/4	7/64	**AV4223050**	Price	**-**	-
3	6	1/4	7/64	**AV4223060**	Price	**AV4229306**	Price
4	3	5/16	1/8	**AV4224030**	Price	**-**	-
3	8	1/4	7/64	**AV4223080**	Price	**-**	-
4	4	5/16	1/8	**AV4224040**	Price	**AV4229404**	Price
4	5	5/16	1/8	**AV4224050**	Price	**-**	-
4	6	5/16	1/8	**AV4224060**	Price	**AV4229406**	Price
4	8	5/16	1/8	**AV4224080**	Price	**-**	-
4-1/2	4	3/8	9/64	**AV4224540**	Price	**-**	-
4-1/2	5	3/8	9/64	**AV4224550**	Price	**-**	-
4-1/2	6	3/8	9/64	**AV4224560**	Price	**-**	-
4-1/2	8	3/8	9/64	**AV4224580**	Price	**-**	-
5	4	7/16	3/16	**AV4225040**	Price	**AV4229504**	Price
5	5	7/16	3/16	**AV4225050**	Price	**-**	-
5	6	7/16	3/16	**AV4225060**	Price	**AV4229506**	Price
5	8	7/16	3/16	**AV4225080**	Price	**-**	-
6	4	1/2	7/32	**AV4226040**	Price	**AV4229604**	Price
6	5	1/2	7/32	**AV4226050**	Price	**-**	-
6	6	1/2	7/32	**AV4226060**	Price	**AV4229606**	Price
6	8	1/2	7/32	**AV4226080**	Price	**-**	-
7	6	5/8	1/4	**AV4227060**	Price	**AV4229706**	Price
7	8	5/8	1/4	**AV4227080**	Price	**-**	-
8	6	3/4	5/16	**AV4228060**	Price	**AV4229806**	Price
8	8	3/4	5/16	**AV4228080**	Price	**-**	-

KEO Combined Drills & Countersinks

MADE IN THE USA

60° Plain Type • Cobalt

- For producing center holes in components or workpieces which require machining between centers
- Available in M42 cobalt or T15 cobalt
- Right hand



					M-42 Cobalt		T-15 Cobalt	
Size	Body Dia. (in.)	Drill Dia. (in.)	Drill Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
5-0	1/8	.010	.010	1-1/4	**AV4210012†**	Price	-	-
4-0	1/8	.015	.015	1-1/4	**AV4210017†**	Price	-	-
3-0	1/8	.020	.020	1-1/4	**AV4210022†**	Price	-	-
2-0	1/8	.025	.025	1-1/4	**AV4210027†**	Price	-	-
0	1/8	1/32	1/32	1-1/4	**AV4210034†**	Price	-	-
1	1/8	3/64	3/64	1-1/4	**AV4210142**	Price	**AV4210115**	Price
2	3/16	5/64	5/64	1-7/8	**AV4210242**	Price	**AV4210215**	Price
3	1/4	7/64	7/64	2	**AV4210342**	Price	**AV4210315**	Price
4	5/16	1/8	1/8	2-1/8	**AV4210442**	Price	**AV4210415**	Price
4-1/2	3/8	9/64	9/64	2-1/2	**AV4214542**	Price	**AV4214515**	Price
5	7/16	3/16	3/16	2-3/4	**AV4210542**	Price	**AV4210515**	Price
6	1/2	7/32	7/32	3	**AV4210642**	Price	**AV4210615**	Price
7	5/8	1/4	1/4	3-1/4	**AV4210742**	Price	**AV4210715**	Price
8	3/4	5/16	5/16	3-1/2	**AV4210842**	Price	**AV4210815**	Price
9	7/8	11/32	11/32	3-5/8	**AV4210942**	Price	**AV4210915**	Price
10	1	3/8	3/8	3-3/4	**AV4211042**	Price	**AV4211015**	Price

†Aircraft type

KEO Solid Carbide Combined Drills & Countersinks-Plain Type

60, 82 & 90°



- Used for producing center holes in components or workpieces which require machining between centers

				60°		82°		90°	
Size	Body Dia. (in.)	Drill Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
00	1/8	.025	1-1/2	**AV4219025**	Price	-	-	-	-
2-0	1/8	.025	1-1/2	-	-	**AV4219028**	Price	**AV4219029**	Price
3-0	1/8	.020	1-1/2	**AV4219020**	Price	**AV4219021**	Price	**AV4219022**	Price
4-0	1/8	.015	1-1/2	**AV4219015**	Price	**AV4219018**	Price	**AV4219019**	Price
5-0	1/8	.010	1-1/2	**AV4219010**	Price	**AV4219011**	Price	**AV4219012**	Price
0	1/8	1/32	1-1/2	**AV4219032**	Price	**AV4219038**	Price	**AV4219039**	Price
1	1/8	3/64	1-1/2	**AV4219105**	Price	**AV4219108**	Price	**AV4219109**	Price
2	3/16	5/64	2	**AV4219205**	Price	**AV4219208**	Price	**AV4219209**	Price
3	1/4	7/64	2	**AV4219305**	Price	**AV4219308**	Price	**AV4219309**	Price
4	5/16	1/8	2-1/8	**AV4219405**	Price	**AV4219408**	Price	**AV4219409**	Price
5	7/16	3/16	2-3/4	**AV4219505**	Price	**AV4219508**	Price	**AV4219509**	Price
6	1/2	7/32	3	**AV4219605**	Price	**AV4219608**	Price	**AV4219609**	Price
7	5/8	1/4	3-3/4	**AV4219705**	Price	**AV4219708**	Price	**AV4219709**	Price
8	3/4	5/16	4	**AV4219805**	Price	**AV4219808**	Price	**AV4219809**	Price

RAPIDKUT Solid Carbide Center Drills

- Carbide for longer tool life especially in abrasive and difficult-to-cut metals



				Price		82°		90°	
				Rapidkut		Rapidkut		Rapidkut	
Size	OAL	Body Dia.	Drill Dia.	Order No.	Price	Order No.	Price	Order No.	Price
00	1-1/2	1/8	.025	**AV54CD00**	Price	**AV541000**	Price	**AV541010**	Price
0	1-1/2	1/8	1/32	**AV54CD0**	Price	**AV541001**	Price	**AV541011**	Price
1	1-1/2	1/8	3/64	**AV54CD1**	Price	**AV541002**	Price	**AV541012**	Price
2	1-7/8	3/16	5/64	**AV54CD2**	Price	**AV541003**	Price	**AV541013**	Price
3	2	1/4	7/64	**AV54CD3**	Price	**AV541004**	Price	**AV541014**	Price
4	2-1/8	5/16	1/8	**AV54CD4**	Price	**AV541005**	Price	**AV541015**	Price
5	2-3/4	7/16	3/16	**AV54CD5**	Price	**AV541006**	Price	**AV541016**	Price
6	3	1/2	7/32	**AV54CD6**	Price	**AV541007**	Price	**AV541017**	Price
7	3-1/4	5/8	1/4	-	-	**AV541008**	Price	**AV541018**	Price
8	3-1/2	3/4	5/16	-	-	**AV541009**	Price	**AV541019**	Price

MICRO 100 Solid Carbide Combined Drills & Countersinks



- Provides for vastly increased speed and feed rates in cutting aluminum, copper, stainless steels, high temperature alloys, thermoplastics and composites used in the aircraft industry

Size	Body Dia. (in.)	Drill Dia. (in.)	OAL (in.)	Order No.	Price
0	1/8	1/32	1-1/4	**GE45DC01**	Price
00	1/8	.025	1-1/4	**GE45DC00**	Price
1	1/8	3/64	1-1/2	**GE45DC1**	Price
2	3/16	5/64	1-7/8	**GE45DC2**	Price
3	1/4	7/64	2	**GE45DC3**	Price
4	5/16	1/8	2-1/8	**GE45DC4**	Price
5	7/16	3/16	2-3/4	**GE45DC5**	Price
6	1/2	7/32	3	**GE45DC6**	Price
1 - 6 Set	-	-	3	**GE45DC0**	Price

RAPIDKUT Solid Carbide Long Series Combined Drill & Countersink - 60°



Size	OAL (in.)	Body Dia. (in.)	Drill Dia. (in.)	Order No.	Price
1	4	1/8	3/64	**AV541020**	Price
2	4	3/16	5/64	**AV541021**	Price
3	4	1/4	7/64	**AV541022**	Price
4	4	5/16	1/8	**AV541023**	Price
5	6	7/16	3/16	**AV541024**	Price
6	6	1/2	7/32	**AV541025**	Price
7	6	5/8	1/4	**AV541026**	Price
8	6	3/4	5/16	**AV541027**	Price

M A Ford Long Series Combination Drill & Countersink

Solid Carbide • 60°



- Long overall length
- Solid carbide construction helps reduce tool changes when centering abrasive or difficult to machine materials
- Designed to maintain accurate center holes on long production runs, or when precise centering is required
- M A Ford List #405

Size	OAL (in.)	Body Dia. (in.)	Drill Dia. (in.)	Order No.	Price
00	5	1/8	.025	**AX4340501**	Price
0	5	1/8	1/32	**AX4340505**	Price
1	5	1/8	3/64	**AX4340509**	Price
2	5	3/16	5/64	**AX4340513**	Price
3	5	1/4	7/64	**AX4340517**	Price
4	5	5/16	1/8	**AX4340521**	Price
5	5	7/16	3/16	**AX4340525**	Price
6	5	1/2	7/32	**AX4340529**	Price

KEO Solid Carbide Combined Drills & Countersinks

60° • Bell Type



- Used for producing protected center holes in components or work-pieces which require machining between centers
- The addtional 120° included chamfer eliminates the risk of deforming the countersink seat

Size	Bell Dia. (in.)	Body Dia. (in.)	Drill Dia. (in.)	OAL (in.)	Order No.	Price
11	.100	1/8	3/64	1-1/4	**AV4219110**	Price
12	.150	3/16	1/16	1-7/8	**AV4219120**	Price
13	.200	1/4	3/32	2	**AV4219130**	Price
14	.250	5/16	7/64	2-1/8	**AV4219140**	Price
15	.350	7/16	5/32	2-3/4	**AV4219150**	Price
16	.400	1/2	3/16	3	**AV4219160**	Price

NC Spotting Drills



High Speed Steel • 82°, 90° and 120° • Bright Finish

- Ideal for close tolerance NC spotting operations
- Provides a more accurate and faster spotting location for follow-up drilling
- Eliminates wandering
- Short, regular or long lengths

			Price				Keo						Morse Cutting Tools			
			90°		120°		Price		90°		120°		90°		120°	
Body Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/4	3/4	2-1/2	AF6590161	Price	AF65120161	Price	-	-	AV4132140	Price	AV4133140	Price	AF6011900	Price	AF6011906	Price
1/4	3/8	2-1/2	-	-	-	-	AV4238142	Price	-	-	-	-	-	-	-	-
1/4	3/4	4	AF6590162	Price	AF65120162	Price	AV4238144	Price	AV4132142	Price	AV4133142	Price	AF6011912	Price	AF6011918	Price
1/4	3/4	6	AF6590163	Price	AF65120163	Price	AV4238146	Price	AV4132144	Price	AV4133144	Price	-	-	-	-
3/8	1-1/8	3-1/8	AF6590241	Price	AF65120241	Price	AV4238382	Price	AV4132380	Price	AV4133380	Price	AF6011901	Price	AF6011907	Price
3/8	1-1/8	5	AF6590242	Price	AF65120242	Price	AV4238384	Price	AV4132382	Price	AV4133382	Price	AF6011913	Price	AF6011919	Price
3/8	1-1/8	7	AF6590243	Price	AF65120243	Price	AV4238386	Price	AV4132384	Price	AV4133384	Price	-	-	-	-
1/2	1-3/8	3-3/4	AF6590321	Price	AF65120321	Price	AV4238122	Price	AV4132120	Price	AV4133120	Price	AF6011902	Price	AF6011908	Price
1/2	1-3/8	6	AF6590322	Price	AF65120322	Price	AV4238124	Price	AV4132122	Price	AV4133122	Price	AF6011914	Price	AF6011920	Price
1/2	1-3/8	8	AF6590323	Price	AF65120323	Price	AV4238126	Price	AV4132124	Price	AV4133124	Price	-	-	-	-
5/8	1-5/8	4-3/8	AF6590401	Price	AF65120401	Price	AV4238582	Price	AV4132580	Price	AV4133580	Price	AF6011903	Price	AF6011909	Price
5/8	1-5/8	7	AF6590402	Price	AF65120402	Price	AV4238584	Price	AV4132582	Price	AV4133582	Price	AF6011915	Price	AF6011921	Price
5/8	1-5/8	9	AF6590403	Price	-	-	AV4238586	Price	AV4132584	Price	AV4133584	Price	-	-	-	-
3/4	1-7/8	5	AF6590481	Price	AF65120481	Price	AV4238342	Price	AV4132340	Price	AV4133340	Price	AF6011904	Price	AF6011910	Price
3/4	1-7/8	8	AF6590482	Price	AF65120482	Price	AV4238344	Price	AV4132342	Price	AV4133342	Price	AF6011916	Price	AF6011922	Price
3/4	1-7/8	10	AF6590483	Price	AF65120483	Price	AV4238346	Price	AV4132344	Price	AV4133344	Price	-	-	-	-
1	2-1/4	6	AF6591001	Price	AF65121001	Price	AV4238102	Price	AV4132100	Price	AV4133100	Price	AF6011905	Price	AF6011911	Price
1	2-1/4	8	AF6591002	Price	-	-	AV4238104	Price	AV4132102	Price	AV4133102	Price	AF6011917	Price	AF6011923	Price
1	2-1/4	10	AF6591003	Price	AF65121003	Price	AV4238106	Price	AV4132104	Price	AV4133104	Price	-	-	-	-

RAPIDKUT® Spotting Drills

High Speed Steel

- 90 or 120° Angle
- Available in short and longer lengths for a variety of applications



			90°		120°	
Size	Flute Length	Overall Length	Order No.	Price	Order No.	Price
1/4	1	2-1/2	SD20160090	Price	SD20160120	Price
1/4	1	4	SD20L160090	Price	SD20L160120	Price
3/8	1-1/8	3-1/8	SD20240090	Price	SD20240120	Price
3/8	1-1/8	5	SD20L240090	Price	SD20L240120	Price
1/2	1-1/2	3-3/4	SD20320090	Price	SD20320120	Price
1/2	1-1/2	6	SD20L320090	Price	SD20L320120	Price
5/8	1-5/8	4-1/4	SD20400090	Price	SD20400120	Price
5/8	1-5/8	7-1/8	SD20L400090	Price	SD20L400120	Price
3/4	1-3/4	5	SD20480090	Price	SD20480120	Price
3/4	1-3/4	8	SD20L480090	Price	SD20L480120	Price
1	1-3/4	6	SD20640090	Price	SD20640120	Price
1	1-3/4	8	SD20L640090	Price	SD20L640120	Price

RAPIDKUT® Spotting Drill Sets

High Speed Steel • 6 Piece Set

- 90 or 120° Angle
- Available in short and longer lengths for a variety of applications

Sizes Included	Length	Angle	Order No.	Price
1/4 - 1	Shorter Lengths	90°	SD20S1664090	Price
1/4 - 1	Longer Lengths	90°	SD20L1664090	Price
1/4 - 1	Shorter Lengths	120°	SD20S1664120	Price
1/4 - 1	Longer Lengths	120°	SD20L1664120	Price

Keo Spotting & Centering Drills



High Speed Steel • 90° and 118° • Right and Left Hand

- Prevent misalignment frequently caused by using regular drills for centering
- These short drills can be chucked close to the point ensuring accuracy and true starts

			90°				118°			
			Left Hand		Right Hand		Price		Right Hand	
Body Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	3/8	1-1/4	AV4230156	Price	AV4230151	Price	AV4230155	Price	AV4230150	Price
3/16	1/2	1-3/8	AV4230186	Price	AV4230181	Price	AV4230185	Price	AV4230180	Price
1/4	5/8	1-1/2	AV4230256	Price	AV4230251	Price	AV4230255	Price	AV4230250	Price
5/16	5/8	1-1/2	AV4230316	Price	AV4230311	Price	AV4230315	Price	AV4230310	Price
3/8	1	2	AV4230386	Price	AV4230381	Price	AV4230385	Price	AV4230380	Price
7/16	1	2	AV4230766	Price	AV4230761	Price	AV4230765	Price	AV4230760	Price
1/2	1	2	AV4230126	Price	AV4230121	Price	AV4230125	Price	AV4230120	Price
9/16	1	2	AV4230966	Price	AV4230961	Price	AV4230965	Price	AV4230960	Price
5/8	1-1/8	2-1/4	AV4230586	Price	AV4230581	Price	AV4230585	Price	AV4230580	Price
3/4	1-1/8	2-1/4	AV4230346	Price	AV4230341	Price	AV4230345	Price	AV4230340	Price
7/8	1-1/4	2-1/2	AV4230786	Price	AV4230781	Price	AV4230785	Price	AV4230780	Price
1	1-1/4	2-1/2	AV4231006	Price	AV4231001	Price	AV4231005	Price	AV4231000	Price
1-1/4	2	4	AV4231146	Price	AV4231141	Price	AV4231145	Price	AV4231140	Price
1-1/2	2-1/2	5	AV4231126	Price	AV4231121	Price	AV4231125	Price	AV4231120	Price
1-3/4	2-3/4	5-1/2	AV4231346	Price	AV4231341	Price	AV4231345	Price	AV4231340	Price

Solid Carbide Spotting Drills



.3xD Length • 90° & 120°

- 21° Helix
- Designed for accurate spotting on NC machines
- Short lengths and no body clearance make this a very rigid tool
- Can be used at high speeds and feeds, compatible with other carbide tooling
- Easy to repoint because there is no web taper
- M A Ford List #403 & 404

			90°		120°	
Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
3/16	1	2	AX4340401	Price	AX4340301	Price
1/4	1	2	AX4340413	Price	AX4340313	Price
5/16	1	2-1/2	AX4340417	Price	AX4340317	Price
3/8	1	2-1/2	AX4340425	Price	AX4340325	Price
1/2	1-9/16	3	AX4340437	Price	AX4340337	Price

Solid Carbide NC Spotting Drills

82°, 90° and 120°



- Perfect for hard to reach areas
- Narrow chisel edge for quick starting
- Constant web which allows for resharpening without the need for web thinning

			82°		90°		120°	
Drill Dia. (in.)	Flute Length	Overall Length	Order No.	Price	Order No.	Price	Order No.	Price
1/8	3/8	1-1/2	**AV4234182**	Price	**AV4134180**	Price	**AV4134181**	Price
3/16	9/16	2	**AV4234185**	Price	**AV4134187**	Price	**AV4134188**	Price
1/4	3/4	2-1/2	**AV4234145**	Price	**AV4134140**	Price	**AV4134141**	Price
5/16	3/4	2-1/2	**AV4234315**	Price	**AV4134312**	Price	**AV4134313**	Price
3/8	3/4	2-1/2	**AV4234385**	Price	**AV4134380**	Price	**AV4134381**	Price
1/2	1	3	**AV4234125**	Price	**AV4134120**	Price	**AV4134121**	Price
5/8	1	3-1/2	**-**	-	**AV4134580**	Price	**AV4134581**	Price
3/4	1-1/8	4	**AV4234345**	Price	**AV4134340**	Price	**AV4134341**	Price

Solid Carbide 142° Point Angle Spotting Drill



- Great for steel & stainless steel applications
- Prepares a hole for a high performance drill with a 130°-140° point angle

Drill Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	5/8	1-1/2	**AV4134184**	Price
3/16	13/16	2	**AV4134189**	Price
1/4	13/16	2-1/2	**AV4134144**	Price
5/16	7/8	2-1/2	**AV4134314**	Price

Drill Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
3/8	7/8	2-1/2	**AV4134384**	Price
1/2	1-1/8	3	**AV4134124**	Price
5/8	1-1/8	3-1/2	**AV4134584**	Price
3/4	1-1/4	4	**AV4134344**	Price

MICRO 100 Solid Carbide Spotting & Centering Drills

82°, 90°, 100°, and 120°



			82°		90°		100°		120°	
Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/4	3/4	2	**GE45SPD250082**	Price	**GE45SPD250090**	Price	**GE45SPD250100**	Price	**GE45SPD250120**	Price
5/16	3/4	2	**GE45SPD312082**	Price	**GE45SPD312090**	Price	**GE45SPD312100**	Price	**GE45SPD312120**	Price
3/8	1	2	**GE45SPD375082**	Price	**GE45SPD375090**	Price	**GE45SPD375100**	Price	**GE45SPD375120**	Price
1/2	1	2-1/2	**GE45SPD500082**	Price	**GE45SPD500090**	Price	**GE45SPD500100**	Price	**GE45SPD500120**	Price
5/8	1-1/8	2-1/2	**GE45SPD625082**	Price	**GE45SPD625090**	Price	**GE45SPD625100**	Price	**GE45SPD625120**	Price
3/4	1-1/8	2-1/2	**GE45SPD750082**	Price	**GE45SPD750090**	Price	**GE45SPD750100**	Price	**-**	-

RAPIDKUT® Solid Carbide Spotting & Centering Drills

60°, 90° and 120°



- Made from premium submicron grain carbide
- Tolerances +.0000/-.0005”

			60°		90°		120°	
Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/8	5/8	2	**DD8319257**	Price	**DD8317711**	Price	**DD8317716**	Price
3/16	3/4	2	**-**	-	**DD8317712**	Price	**DD8317717**	Price
1/4	3/4	2-1/2	**DD8319259**	Price	**DD8317713**	Price	**DD8317718**	Price
3/8	1	3	**DD8319261**	Price	**DD8317714**	Price	**DD8317719**	Price
7/16	1-1/4	3	**DD8319264**	Price	**DD8319262**	Price	**DD8319263**	Price
1/2	1	3	**DD8319266**	Price	**DD8317715**	Price	**DD8317720**	Price
5/8	1-1/4	3	**DD8319269**	Price	**DD8319267**	Price	**DD8319268**	Price
3/4	1-3/4	3-1/2	**DD8319272**	Price	**DD8319270**	Price	**-**	-
7/8	1-3/4	3-1/2	**-**	-	**DD8319273**	Price	**DD8319274**	Price
1	1-3/4	3-1/2	**DD8319277**	Price	**DD8319275**	Price	**DD8319276**	Price

ZErO Flute Countersinks & Deburring Tools

Straight Shank, CNC Precision Cam Ground, M35 Cobalt, Chatterless Cutting Action

Features:

- Micro-smooth CNC precision ground for clean smooth cutting without smearing
- M35 cobalt: 6% tungsten, 5% moly, 5% cobalt – for long tool life in all types of materials
- Cam relieved for totally chatter-free cuts
- Through-hole design that is easy to resharpen using a small grinding wheel in the cross-hole



				60°		82°		90°	
Head Dia. (in.)	Dia. of Cut (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
5/16	3/32 to 9/32	1/4	1-5/8	-	-	AV4253510	Price	AV4253520	Price
5/16	7/64 to 9/32	1/4	1-7/8	AV4253500	Price	-	-	-	-
3/8	5/32 to 11/32	1/4	1-7/8	AV4253501	Price	-	-	-	-
3/8	9/64 to 11/32	1/4	1-3/4	-	-	AV4253511	Price	AV4253521	Price
1/2	11/64 to 29/64	5/16	2	AV4253502	Price	-	-	-	-
1/2	5/32 to 29/64	5/16	1-3/4	-	-	AV4253512	Price	AV4253522	Price
5/8	11/64 to 37/64	3/8	2-1/8	-	-	AV4253513	Price	AV4253523	Price
5/8	3/16 to 37/64	3/8	2-1/2	AV4253503	Price	-	-	-	-
3/4	1/4 to 45/64	3/8	2-3/4	AV4253504	Price	-	-	-	-
3/4	13/64 to 45/64	3/8	2-3/8	-	-	AV4253514	Price	AV4253524	Price
1	19/64 to 27/32	3/8	3	AV4253505	Price	-	-	-	-
1	19/64 to 59/64	3/8	2-5/8	-	-	AV4253515	Price	AV4253525	Price
1-1/4	23/64 to 1-3/32	1/2	3-1/8	-	-	AV4253516	Price	AV4253526	Price
1-1/4	27/64 to 1-1/32	1/2	3-1/2	AV4253506	Price	-	-	-	-

ZErO Flute Countersinks & Deburring Tool Sets

Straight Shank, CNC Precision Cam Ground, M35 Cobalt, Chatterless Cutting Action

- Micro-smooth CNC precision ground for clean smooth cutting without smearing
- M35 cobalt: 6% tungsten, 5% moly, 5% cobalt – for long tool life in all types of materials
- Cam relieved for totally chatter-free cuts
- Through-hole design that is easy to resharpen using a small grinding wheel in the cross-hole



		60°		82°		90°	
Head Dia. Included (in.)	No. of Pcs.	Order No.	Price	Order No.	Price	Order No.	Price
5/16, 3/8, 1/2, 5/8	4	AV4253508	Price	AV4253518	Price	AV4253528	Price
5/16, 3/8, 1/2, 3/4, 1	5	AV4253509	Price	AV4253519	Price	AV4253529	Price

PROCUT Countersink & Deburring Tools

60°, 82° and 90° • High Speed Steel

- Single Cutting edge provides faster stock removal and prevents chatter
- Designed for deburring steel and other ferrous materials-NOT recommended for deburring brass, aluminum and other non-ferrous materials



			60°		82°		90°	
Size	Dia. Range (in.)	Shank Dia. (in.)	Order No.	Price	Order No.	Price	Order No.	Price
0 Double End	1/16 to 15/64	1/4	BB61544060	Price	BB61544082	Price	BB61544090	Price
1 Single End	5/32 to 13/32	1/4	BB61544160	Price	BB61544182	Price	BB61544190	Price
2 Single End	3/16 to 17/32	1/4	BB61544260	Price	BB61544282	Price	BB61544290	Price
3 Single End	5/16 to 25/32	1/2	BB61544360	Price	BB61544382	Price	BB61544390	Price
4 Single End	9/16 to 11/16	1/2	BB61544460	Price	BB61544482	Price	BB61544490	Price
5 Single End	5/8 to 1-15/32	1/2	BB61544560	Price	BB61544582	Price	BB61544590	Price
6 Single End	3/4 to 1-3/4	5/8	BB61544660	Price	BB61544682	Price	BB61544690	Price
7 Single End	1 to 2	5/8	BB61544760	Price	BB61544782	Price	BB61544790	Price
8 Single End	1-1/4 to 2-1/2	3/4	BB61544860	Price	BB61544882	Price	BB61544890	Price

Single Cutting Edge Countersinks

High Speed Steel

- Designed for general purpose countersinking, chamfering and deburring
- Efficient stock removal, chatter free finish
- Bright finish helps reduce chip build-up on cutting edge
- 3/16 & 1/4" Double-ended
- M. A. Ford List #67



		60°		82°		90°	
Body Size (in.)	Shank Dia. (in.)	Order No.	Price	Order No.	Price	Order No.	Price
3/16	3/16	BC7267001	Price	BC7267006	Price	BC7267011	Price
1/4	1/4	BC7267016	Price	BC7267021	Price	BC7267026	Price
7/16	1/4	BC7267031	Price	BC7267036	Price	BC7267041	Price
9/16	1/4	BC7267046	Price	BC7267051	Price	BC7267056	Price
13/16	1/2	BC7267061	Price	BC7267066	Price	BC7267071	Price
1-1/8	1/2	BC7267076	Price	BC7267081	Price	BC7267086	Price
1-1/2	1/2	BC7267091	Price	BC7267096	Price	BC7267101	Price

PROCUT Countersink & Deburring Tool Sets

5 Pc. sets include 1 each: sizes #0 thru #4 complete with wood stand



Set Angle	Order No.	Price
60°	BB61544S60	Price
82°	BB61544S82	Price
90°	BB61544S90	Price

WELDON® Countersinks & Deburring Tools

High Speed Steel

- Use for countersinking and deburring operations in a wide range of materials in portable or machine applications
- Provides chatterless finish
- Single cutting edge for fast stock removal
- Free cutting and easy to sharpen
- Designed for 60°, 82°, 90°, and 100° cutting



Type - Pilotless Deburring Tools Angle - 60					
Model. No.	Dia. of Cut (Min.-Max.) (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price
DC-14	3/16 to 13/32	1/4	1-3/4	**BB40DC14**	Price
DC-18	5/16 to 17/32	1/4	1-15/16	**BB40DC18**	Price
DC-26	7/16 to 25/32	1/2	2-11/16	**BB40DC26**	Price
DC-26A	7/16 to 25/32	1/4	2-1/8	**BB40DC26A**	Price
DC-36	11/16 to 1-3/32	1/2	2-7/8	**BB40DC36**	Price

Type - Pilotless Deburring Tools Angle - 82					
Model. No.	Dia. of Cut (Min.-Max.) (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price
CS-5S	4,5 †	1/4	1-1/2	**BB40CS5S**	Price
CS-6S	6 †	1/4	1-1/2	**BB40CS6S**	Price
CS-8S	8 †	1/4	1-5/8	**BB40CS8S**	Price
CS-10S	10 †	1/4	1-5/8	**BB40CS10S**	Price
CS-18	3/16 to 17/32	1/4	1-7/8	**BB40CS18**	Price
CS-26	.307 to 25/32	1/2	2-5/8	**BB40CS26**	Price
CS-26A	.307 to 25/32	1/4	2-1/16	**BB40CS26A**	Price
CS-36	.431 to 7/8	1/2	2-13/16	**BB40CS36**	Price
CS-48	1/2 to 1-15/32	1/2	3-1/2	**BB40CS48**	Price

Type - Pilotless Deburring Tools Angle - 90					
Model. No.	Dia. of Cut (Min.-Max.) (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price
DB-14	5/32 to 13/32	1/4	1-11/16	**BB40DB14**	Price
DB-18	3/16 to 17/32	1/4	1-7/8	**BB40DB18**	Price
DB-26	5/16 to 25/32	1/2	2-19/32	**BB40DB26**	Price
DB-26A	5/16 to 25/32	1/4	2-1/32	**BB40DB26A**	Price
DB-36	9/16 to 1-3/32	1/2	2-13/16	**BB40DB36**	Price
DB-48	1/2 to 1-15/32	1/2	3-1/2	**BB40DB48**	Price

Type - Pilotless Deburring Tools Angle - 100					
Model. No.	Dia. of Cut (Min.-Max.) (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price
CSA-8	3/32 to 1/4	1/4	1-1/2	**BB40CSA8**	Price
CSA-14	1/8 to 27/64	1/4	1-11/16	**BB40CSA14**	Price
CSA-18	3/16 to 35/64	1/4	1-7/8	**BB40CSA18**	Price

† Note: these sizes are machine screw sizes.

WELDON® Double End - Style No. 3



Angle - 60					
Model. No.	Dia. of Cut (Min.-Max.) (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price
DC-6	3/32 to 11/64	3/16	1-1/2	**BB40DC6**	Price
DC-8	1/8 to 15/64	1/4	1-3/4	**BB40DC8**	Price

Angle - 82					
Model. No.	Dia. of Cut (Min.-Max.) (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price
CS-3S	.073 to 15/64	1/4	1-3/4	**BB40CS3S**	Price

Angle - 90					
Model. No.	Dia. of Cut (Min.-Max.) (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price
DB-4	1/64 to 11/64	3/16	1-1/2	**BB40DB4**	Price
DB-6	1/16 to 11/64	3/16	1-1/2	**BB40DB6**	Price
DB-8	1/8 to 15/64	1/4	1-3/4	**BB40DB8**	Price

WELDON® Piloted - Style No. 2 82° Countersinks



Model. No.	Screw Size (in.)	Pilot Dia. (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price
CS8-1	1/4	1/4	3/8	2	**BB40CS81**	Price
CS8-2	1/4	17/64	3/8	2	**BB40CS82**	Price
CS10-1	5/16	5/16	1/2	2-3/16	**BB40CS101**	Price
CS10-2	5/16	21/64	3/8	2-3/16	**BB40CS102**	Price
CS12-1	3/8	3/8	1/2	2-5/8	**BB40CS121**	Price
CS12-2	3/8	25/64	1/2	2-5/8	**BB40CS122**	Price
CS14-1	7/16	7/16	1/2	2-3/4	**BB40CS141**	Price
CS14-2	7/16	29/64	1/2	2-3/4	**BB40CS142**	Price
CS16-1	1/2	1/2	1/2	2-13/16	**BB40CS161**	Price
CS16-2	1/2	33/64	1/2	2-13/16	**BB40CS162**	Price

WELDON® Style No. 4 90° Deburring Tools

- Shank must be purchased separately



Model. No.	Dia. of Cut (Min.-Max.) (in.)	Order No.	Price
DB-64	1-1/16 to 2	**BB40DB64**	Price
DB-96	2 to 3	**BB40DB96**	Price

WELDON® Shanks for DB-64 and DB-96

Model No.	Description	For Use With	Order No.	Price
DS-2	1/2" Straight Shank	DB-64 Deburring Tools	**BB40DS2**	Price
DS-2T	2" Morse Taper	DB-64 Deburring Tools	**BB40DS2T**	Price
DS-3	1/2" Straight Shank	DB-96 Deburring Tools	**BB40DS3**	Price
DS-3T	2" Morse Taper	DB-96 Deburring Tools	**BB40DS3T**	Price

WELDON® 6 Pc. Pilotless Deburring Sets



Set Style	Included Angle	Set Contains One of Each Size	Order No.	Price
Pilotless Deburring (6 pcs.)	60°	DC-6, DC-8, DC-14, DC-18, DC-26, DC-36 (3/32" thru 11/16")	**BB4060DB**	Price
Pilotless Deburring (6 pcs.)	90°	DB-6, DB-8, DB-14, DB-18, DB-26, DB-36 (1/16" thru 9/16")	**BB4090DB**	Price

WELDON® Countersink Sets



Set Style	Included Angle	Set Contains One of Each Size	Order No.	Price
Pilotless Countersink (4 pcs.)	82°	CS-5S, CS-6S, CS-8S, CS-10S (#4 thru #10)	**BB40WCSET**	Price
Pilotless Countersink (4 pcs.)	82°	CS-6S, CS-8S, CS-10S, CS-18 (#6 thru 3/16")	**BB40GCSET**	Price
Zero Flute Pilotless (5 pcs.)	82°	CS-5S, CS-6S, CS-8S, CS-10S CS-18 (#4 thru 17/32")	**BB40WCGSET**	Price
Countersink (9 pcs.)	82°	CS-5S, CS-6S, CS-8S, CS-10S, CS8-1, CS10-1, CS12-1, CS14-1, CS16-1 (#4 thru 1/2")	**BB401CSET**	Price
Countersink & Deburring (9 pcs.)	82°	CS-5S, CS-6S, CS-8S, CS-10S, CS8-2, CS10-2, CS12-2, CS14-2, CS16-2 (#4 thru 1/2")	**BB402CSET**	Price

Single Flute Countersinks

High Speed Steel and Carbide • 60°, 82°, and 90°





RAPIDKUT®

				ProCut		Rapidkut			
				High Speed Steel		Carbide		High Speed Steel	
Size (in.)	Shank Dia. (in.)	OAL (in.)	Angle	Order No.	Price	Order No.	Price	Order No.	Price
3/16	3/16	1-1/2	60°	BC52RF360	Price	BC531900	Price	BC42RF360	Price
3/16	3/16	1-1/2	82°	BC52RF382	Price	BC531901	Price	BC42RF382	Price
3/16	3/16	1-1/2	90°	BC52RF390	Price	BC531902	Price	BC42RF390	Price
1/4	1/4	2	60°	BC52RF460	Price	BC531903	Price	BC42RF460	Price
1/4	1/4	2	82°	BC52RF482	Price	BC531904	Price	BC42RF482	Price
1/4	1/4	2	90°	BC52RF490	Price	BC531905	Price	BC42RF490	Price
5/16	1/4	2	60°	BC52RF560	Price	-	-	-	-
5/16	1/4	2	82°	BC52RF582	Price	-	-	-	-
5/16	1/4	2	90°	BC52RF590	Price	-	-	-	-
3/8	1/4	2	60°	BC52RF660	Price	BC531906	Price	BC42RF660	Price
3/8	1/4	2	82°	BC52RF682	Price	BC531907	Price	BC42RF682	Price
3/8	1/4	2	90°	BC52RF690	Price	BC531908	Price	BC42RF690	Price
1/2	1/4	2	60°	BC52RF860	Price	-	-	BC42RF860	Price
1/2	1/4	2	82°	BC52RF882	Price	-	-	BC42RF882	Price
1/2	1/4	2	90°	BC52RF890	Price	-	-	BC42RF890	Price
1/2	3/8	2-1/2	60°	-	-	BC531909	Price	-	-
1/2	3/8	2-1/2	82°	-	-	BC531910	Price	-	-
1/2	3/8	2-1/2	90°	-	-	BC531911	Price	-	-
5/8	1/2	2-1/2	60°	BC52RF1060	Price	BC531912	Price	BC42RF1060	Price
5/8	1/2	2-1/2	82°	BC52RF1082	Price	BC531913	Price	BC42RF1082	Price
5/8	1/2	2-1/2	90°	BC52RF1090	Price	BC531914	Price	BC42RF1090	Price
3/4	1/2	2-3/4	60°	BC52RF1260	Price	BC531915	Price	BC42RF1260	Price
3/4	1/2	2-3/4	82°	BC52RF1282	Price	BC531916	Price	BC42RF1282	Price
3/4	1/2	2-3/4	90°	BC52RF1290	Price	BC531917	Price	BC42RF1290	Price
7/8	1/2	2-3/4	60°	BC52RF1460	Price	-	-	-	-
7/8	1/2	2-3/4	82°	BC52RF1482	Price	-	-	-	-
7/8	1/2	2-3/4	90°	BC52RF1490	Price	-	-	-	-
1	1/2	2-3/4	60°	BC52RF1660	Price	BC531918	Price	BC42RF1660	Price
1	1/2	2-3/4	82°	BC52RF1682	Price	BC531919	Price	BC42RF1682	Price
1	1/2	2-3/4	90°	BC52RF1690	Price	BC531920	Price	BC42RF1690	Price
1-1/4	1/2	3	60°	-	-	-	-	BC42RF2060	Price
1-1/4	1/2	3	82°	-	-	-	-	BC42RF2082	Price
1-1/4	1/2	3	90°	-	-	-	-	BC42RF2090	Price
1-1/4	3/4	3	60°	BC52RF2060	Price	-	-	-	-
1-1/4	3/4	3	82°	BC52RF2082	Price	-	-	-	-
1-1/4	3/4	3	90°	BC52RF2090	Price	-	-	-	-
1-1/2	3/4	3-3/8	60°	BC52RF2460	Price	-	-	BC42RF2460	Price
1-1/2	3/4	3-3/8	82°	BC52RF2482	Price	-	-	BC42RF2482	Price
1-1/2	3/4	3-3/8	90°	BC52RF2490	Price	-	-	BC42RF2490	Price
2	3/4	3-3/4	60°	BC52RF3260	Price	-	-	BC42RF3260	Price
2	3/4	3-3/4	82°	BC52RF3282	Price	-	-	BC42RF3282	Price
2	3/4	3-3/4	90°	BC52RF3290	Price	-	-	BC42RF3290	Price

PROCUT Single Flute Countersink Sets

High Speed Steel • 60°, 82°, and 90°

- All sets include wooden stand



Set Range (in.)	No. of Pieces	Included Angle	Order No.	Price
1/4, 3/8, 1/2, 3/4, 1	5	60°	BC55R23060	Price
1/4, 3/8, 1/2, 3/4, 1	5	82°	BC55R23082	Price
1/4, 3/8, 1/2, 3/4, 1	5	90°	BC55R23090	Price
3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1	9	60°	BC55R24060	Price
3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1	9	82°	BC55R24082	Price
3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1	9	90°	BC55R24090	Price
3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2, 2	12	60°	BC55R25060	Price
3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2, 2	12	82°	BC55R25082	Price

Uniflute® Countersink Sets

High Speed Steel

- In plastic case
- 4 Pc. sets include: 1/4, 1/2, 3/4 and 1" diameter tools
- 7 Pc. sets include: 3/16, 1/4, 3/8, 1/2, 5/8, 3/4 and 1" diameter tools
- M.A.Ford List #64



No. of Pieces - 4		
Included Angle	Order No.	Price
60°	BC7064001	Price
82°	BC7064006	Price
90°	BC7064011	Price
100°	BC7064016	Price
120°	BC7064021	Price

No. of Pieces - 7		
Included Angle	Order No.	Price
60°	BC7064003	Price
82°	BC7064008	Price
90°	BC7064013	Price
100°	BC7064018	Price
120°	BC7064023	Price

RAPIDKUT® Single Flute Countersinks

M-42 8% Cobalt





- Excellent for countersinking abrasives, high strength, heat resistant, exotic, and other difficult to machine materials
- TiN coated for higher surface hardness and better lubricity

			Uncoated						TiN					
			60°		82°		90°		60°		82°		90°	
Size (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	1-1/2	BC6111141	Price	BC6111143	Price	BC6111145	Price	BC6018136	Price	BC6018137	Price	BC6018138	Price
3/16	3/16	1-1/2	BC6111147	Price	BC6111149	Price	BC6111151	Price	BC6018141	Price	BC6018142	Price	BC6018143	Price
1/4	1/4	2	BC6111153	Price	BC6111155	Price	BC6111156	Price	BC6018146	Price	BC6018147	Price	BC6018148	Price
3/8	1/4	2	BC6111157	Price	BC6111158	Price	BC6111159	Price	BC6018151	Price	BC6018152	Price	BC6018153	Price
1/2	3/8	2	BC6111160	Price	BC6111161	Price	BC6111162	Price	BC6018156	Price	BC6018157	Price	BC6018158	Price
5/8	3/8	2-1/4	BC6111163	Price	BC6111164	Price	BC6111165	Price	BC6018161	Price	BC6018162	Price	BC6018163	Price
3/4	1/2	2-3/4	BC6111166	Price	BC6111167	Price	BC6111168	Price	BC6018166	Price	BC6018167	Price	BC6018168	Price
1	1/2	2-3/4	BC6111169	Price	BC6111170	Price	BC6111171	Price	BC6018171	Price	BC6018172	Price	BC6018173	Price
1-1/4	1/2	3	BC6111172	Price	BC6111173	Price	BC6111175	Price	BC6018176	Price	BC6018177	Price	BC6018178	Price

Single Flute Countersinks



High Speed Steel

- Ideal for chamferring, deburring and countersinking

				60°		82°		90°		100°		110°		120°	
Body Dia. (in.)	Shank Dia. (in.)	Shank Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	-	1-1/4	**AV4253186**	Price	**AV4253188**	Price	**AV4253189**	Price	**AV4253180**	Price	**AV4253181**	Price	**AV4253182**	Price
3/16	3/16	-	1-3/8	**AV4253176**	Price	**AV4253178**	Price	**AV4253179**	Price	**AV4253170**	Price	**AV4253171**	Price	**AV4253172**	Price
1/4	1/4	-	1-1/2	**AV4253146**	Price	**AV4253148**	Price	**AV4253149**	Price	**AV4253140**	Price	**AV4253141**	Price	**AV4253142**	Price
3/8	1/4	7/8	1-3/4	**AV4253386**	Price	**AV4253388**	Price	**AV4253389**	Price	**AV4253380**	Price	**AV4253381**	Price	**AV4253382**	Price
1/2	1/4	1	2	**AV4253126**	Price	**AV4253128**	Price	**AV4253129**	Price	**AV4253120**	Price	**AV4253121**	Price	**AV4253122**	Price
5/8	3/8	1	2-1/4	**AV4253586**	Price	**AV4253588**	Price	**AV4253589**	Price	**AV4253580**	Price	**AV4253581**	Price	**AV4253582**	Price
3/4	1/2	1-1/4	2-5/8	**AV4253346**	Price	**AV4253348**	Price	**AV4253349**	Price	**AV4253340**	Price	**AV4253341**	Price	**AV4253342**	Price
1	1/2	1-1/4	2-3/4	**AV4253106**	Price	**AV4253108**	Price	**AV4253109**	Price	**AV4253100**	Price	**AV4253101**	Price	**AV4253102**	Price
1-1/4	1/2	1-1/4	2-3/4	**AV4253246†**	81.55	**AV4253248**	Price	**AV4253249**	Price	**AV4253240**	Price	**AV4253241**	Price	**AV4253242**	Price
1-1/2	3/4	1-1/4	2-7/8	**AV4253226†**	110.40	**AV4253228**	Price	**AV4253229**	Price	**AV4253220**	Price	**AV4253221**	Price	**AV4253222**	Price
1-3/4	3/4	1-1/4	3	**AV4253446†**	140.95	**AV4253448**	Price	**AV4253449**	Price	**AV4253440**	Price	**AV4253441**	Price	**AV4253442**	Price
2	3/4	1-1/4	3-1/4	**AV4253206†**	197.25	**AV4253208**	Price	**AV4253209**	Price	**AV4253200**	Price	**AV4253201**	Price	**AV4253202**	Price

†60º OAL 3, 3-1/4, 3-1/2 and 3-3/4, respectively. Available in larger sizes and sets.

Uniflute® Countersinks



High Speed Steel

- Designed for general purpose countersinking, chamfering or deburring
- Self piloting and completely chatterless
- No secondary burrs formed
- Steam homogeneous surface treatment (blackening) to prolong tool life and prevent galling
- M A Ford Series #61

			60°		82°		90°		100°		120°	
Size (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	1-1/2	**BC7061001**	Price	**BC7061006**	Price	**BC7061011**	Price	**BC7061016**	Price	**BC7061021**	Price
3/16	3/16	1-1/2	**BC7061026**	Price	**BC7061031**	Price	**BC7061036**	Price	**BC7061041**	Price	**BC7061046**	Price
1/4	1/4	2	**BC7061051**	Price	**BC7061056**	Price	**BC7061061**	Price	**BC7061066**	Price	**BC7061071**	Price
3/8	1/4	2	**BC7061076**	Price	**BC7061081**	Price	**BC7061086**	Price	**BC7061091**	Price	**BC7061096**	Price
1/2	1/4	2	**BC7061101**	Price	**BC7061106**	Price	**BC7061111**	Price	**BC7061116**	Price	**BC7061121**	Price
5/8	1/4	2-1/4	**BC7061126**	Price	**BC7061131**	Price	**BC7061136**	Price	**BC7061141**	Price	**BC7061146**	Price
3/4	1/2	2-3/4	**BC7061151**	Price	**BC7061156**	Price	**BC7061161**	Price	**BC7061166**	Price	**BC7061171**	Price
1	1/2	2-3/4	**BC7061176**	Price	**BC7061181**	Price	**BC7061186**	Price	**BC7061191**	Price	**BC7061196**	Price
1-1/4	1/2	3	**BC7061201†**	Price	**BC7061206†**	Price	**BC7061211†**	Price	**-**	-	**-**	-
1-1/2	3/4	3-1/2	**BC7061216†**	Price	**BC7061221†**	Price	**BC7061226†**	Price	**-**	-	**-**	-
2	3/4	3-3/4	**BC7061231†**	Price	**BC7061236†**	Price	**BC7061241†**	Price	**-**	-	**-**	-
2-1/2	3/4	5	**BC7061246†**	Price	**BC7061251†**	Price	**BC7061256†**	Price	**-**	-	**-**	-
3	3/4	5-1/4	**BC7061261†**	Price	**BC7061266†**	Price	**BC7061271†**	Price	**-**	-	**-**	-

†Straight shank with tang drive. Standard angles may be modified from 55° to 119°.

Solid Carbide Single Flute Countersinks



60, 82, 90 and 100°

- Ideal for chamfering, deburring and countersinking
- Positive rake construction provides a smooth surface finish on a wide variety of materials
- Allows for high cutting temperatures

			60°		82°		90°		100°	
Size (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	1-1/2	**AV4255700**	Price	**AV4255710**	Price	**AV4255720**	Price	**AV4255730**	Price
3/16	3/16	2	**AV4255701**	Price	**AV4255711**	Price	**AV4255721**	Price	**AV4255731**	Price
1/4	1/4	2	**AV4255702**	Price	**AV4255712**	Price	**AV4255722**	Price	**AV4255732**	Price
3/8	1/4	2-5/8	**-**	-	**AV4255713**	Price	**AV4255723**	Price	**AV4255733**	Price
3/8	1/4	2-7/8	**AV4255703**	Price	**-**	-	**-**	-	**-**	-
1/2	1/4	2-5/8	**-**	-	**AV4255714**	Price	**AV4255724**	Price	**AV4255734**	Price
1/2	1/4	2-7/8	**AV4255704**	Price	**-**	-	**-**	-	**-**	-
5/8	3/8	2-3/4	**-**	-	**AV4255715**	Price	**AV4255725**	Price	**AV4255735**	Price
5/8	3/8	3	**AV4255705**	Price	**-**	-	**-**	-	**-**	-
3/4	3/8	2-3/4	**-**	-	**AV4255716**	Price	**AV4255726**	Price	**AV4255736**	Price
3/4	3/8	3	**AV4255706**	Price	**-**	-	**-**	-	**-**	-
1	1/2	3	**-**	-	**AV4255717**	Price	**AV4255727**	Price	**AV4255737**	Price
1	1/2	3-1/4	**AV4255707**	Price	**-**	-	**-**	-	**-**	-
1-1/4	3/4	3-1/4	**-**	-	**AV4255718**	Price	**AV4255728**	Price	**AV4255738**	Price
1-1/4	3/4	3-3/4	**AV4255708**	Price	**-**	-	**-**	-	**-**	-

Carbide Uniflute® Countersinks



- Recommended for use on abrasive, non-metallic and non-ferrous materials
- May be used on hardened steel and work hardening alloys
- M A Ford Series #60

			60°		82°		90°		100°	
Size (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	1-1/2	**BC7260001**	Price	**BC7260006**	Price	**BC7260011**	Price	**BC7260016**	Price
3/16	3/16	1-1/2	**BC7260021**	Price	**BC7260026**	Price	**BC7260031**	Price	**BC7260036**	Price
1/4	1/4	2	**BC7260041**	Price	**BC7260046**	Price	**BC7260051**	Price	**BC7260056**	Price
3/8	1/4	2	**BC7260061**	Price	**BC7260066**	Price	**BC7260071**	Price	**BC7260076**	Price
1/2	1/4	2-3/8	**BC7260081**	Price	**BC7260086**	Price	**BC7260091**	Price	**BC7260096**	Price
3/4	1/2	3	**BC7260101**	Price	**BC7260106**	Price	**BC7260111**	Price	**BC7260116**	Price
1	1/2	3	**BC7260121**	Price	**BC7260126**	Price	**BC7260131**	Price	**BC7260136**	Price

Standard angles may be modified from 55° to 120°

RAPIDKUT® Center Reamers



High Speed Steel • 3 or 4 Flute

- Used for countersinking holes for centers or enlarging existing holes
- Radius on the angle contributes to smooth, chatter free operation

				60°		82°		90°	
Size (in.)	Shank (in.)	OAL (in.)	Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1/4	1/4	2	3	**BC6219076**	Price	**BC6219078**	Price	**BC6219080**	Price
3/8	1/4	2	3	**BC6219084**	Price	**BC6219086**	Price	**BC6219075**	Price
1/2	3/8	2	3	**BC6219092**	Price	**BC6219094**	Price	**BC6219096**	Price
5/8	3/8	2-1/4	3	**BC6219091**	Price	**BC6219089**	Price	**BC6219087**	Price
3/4	1/2	2-3/4	3	**BC6219083**	Price	**BC6219081**	Price	**BC6219079**	Price
1	1/2	2-3/4	3	**BC6219227**	Price	**BC6219225**	Price	**BC6219226**	Price
1-1/4	1/2	3	4	**BC6219233**	Price	**BC6219232**	Price	**BC6219231**	Price
1-1/2	3/4	3-1/4	4	**BC6219236**	Price	**BC6219235**	Price	**BC6219234**	Price
1-3/4	3/4	3-1/2	4	**BC6219230**	Price	**BC6219229**	Price	**BC6219228**	Price
2	3/4	3-3/4	4	**BC6219237**	Price	**BC6219238**	Price	**BC6219239**	Price

KEO Center Reamers





High Speed Steel • 3 Flute

- For countersinking holes for centers or for enlarging existing holes

				60°		82°		90°		100°		110°		120°	
Body Dia. (in.)	Shank Dia. (in.)	Shank Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/4	1/4	-	1-1/2	**AV4250146**	Price	**AV4250148**	Price	**AV4250149**	Price	**AV4250140**	Price	**AV4250141**	Price	**AV4250142**	Price
3/8	1/4	7/8	1-3/4	**AV4250386**	Price	**AV4250388**	Price	**AV4250389**	Price	**AV4250380**	Price	**AV4250381**	Price	**AV4250382**	Price
1/2	1/4	1	2	**AV4250126**	Price	**AV4250128**	Price	**AV4250129**	Price	**AV4250120**	Price	**AV4250121**	Price	**AV4250122**	Price
5/8	3/8	1	2-1/4	**AV4250586**	Price	**AV4250588**	Price	**AV4250589**	Price	**AV4250580**	Price	**AV4250581**	Price	**AV4250582**	Price
3/4	1/2	1-1/4	2-5/8	**AV4250346**	Price	**AV4250348**	Price	**AV4250349**	Price	**AV4250340**	Price	**AV4250341**	Price	**AV4250342**	Price
1	1/2	1-1/4	2-3/4	**AV4251006**	Price	**AV4251008**	Price	**AV4251009**	Price	**AV4251000**	Price	**AV4251001**	Price	**AV4251002**	Price
1-1/4	1/2	1-1/4	2-3/4	**AV4251256**	Price	**AV4251258**	Price	**AV4251259**	Price	**AV4251250**	Price	**AV4251251**	Price	**AV4251252**	Price
1-1/2	3/4	1-1/4	2-7/8	**AV4251506**	Price	**AV4251508**	Price	**AV4251509**	Price	**AV4251500**	Price	**AV4251501**	Price	**AV4251502**	Price
1-3/4	3/4	1-1/4	3	**AV4251756**	Price	**AV4251758**	Price	**AV4251759**	Price	**AV4251750**	Price	**AV4251751**	Price	**AV4251752**	Price

Available in sets.

PRODUCUT® Center Reamers



High Speed Steel • 3 Flute

			60°		82°		90°		110°		120°	
Size (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/4	3/16	1-1/2	**BB50CR460**	Price	**BB50CR482**	Price	**BB50CR490**	Price	-	-	**BB50CR4120**	Price
3/8	1/4	1-3/4	**BB50CR660**	Price	**BB50CR682**	Price	**BB50CR690**	Price	-	-	**BB50CR6120**	Price
1/2	3/8	2	**BB50CR860**	Price	**BB50CR882**	Price	**BB50CR890**	Price	**BB50CR8110**	Price	**BB50CR8120**	Price
5/8	3/8	2-1/4	**BB50CR1060**	Price	**BB50CR1082**	Price	**BB50CR1090**	Price	**BB50CR10110**	Price	**BB50CR10120**	Price
3/4	1/2	2-5/8	**BB50CR1260**	Price	**BB50CR1282**	Price	**BB50CR1290**	Price	-	-	**BB50CR12120**	Price
1	1/2	2-3/4	**BB50CR1660**	Price	**BB50CR1682**	Price	**BB50CR1690**	Price	**BB50CR16110**	Price	**BB50CR16120**	Price
1-1/4	5/8	3	**BB50CR2060**	Price	**BB50CR2082**	Price	**BB50CR2090**	Price	-	-	**BB50CR20120**	Price
1-1/2	3/4	3	**BB50CR2460**	Price	**BB50CR2482**	Price	**BB50CR2490**	Price	-	-	**BB50CR24120**	Price
2	3/4	3-1/4	**BB50CR3260**	Price	**BB50CR3282**	Price	**BB50CR3290**	Price	-	-	**BB50CR32120**	Price

M.A. Ford Aircraft Countersink Sets



3 Flute • High Speed Steel

- Designed for countersinking, chamfering and deburring aircraft type metals
- Includes (1) of each 1/4, 3/8, 1/2, 5/8 and 3/4”
- Bright finish helps reduce chip build-up on the cutting edge
- Spiral flute geometry for clean, chatterless finish
- M. A. Ford List #92

Angle	Order No.	Price
82°	**BC7196381**	Price
90°	**BC7196382**	Price

PRODUCUT® Center Reamer Sets

High Speed Steel • 3 Flute • With Stand



Price	60°		82°		90°	
Sizes Included	Order No.	Price	Order No.	Price	Order No.	Price
1/4, 3/8, 1/2, 3/4, 1	**BB50CRS10060**	Price	**BB50CRS10082**	Price	**BB50CRS10090**	Price
1/4, 3/8, 1/2, 5/8, 3/4, 1, 1-1/4, 1-1/2, 2	**BB50CRS20060**	Price	**BB50CRS20082**	Price	**BB50CRS20090**	Price

3 Flute Countersinks

Carbide • 60, 82, 90 and 100°

- Available uncoated or TiAlN coated



Price						
			TiAlN		Uncoated	
Body Dia. (in.)	Shank Dia. (in.)	OAL. (in.)	Order No.	Price	Order No.	Price
1/8	1/8	1-1/2	AV4255770TIALN	Price	AV4255770	Price
3/16	3/16	2	AV4255771TIALN	Price	AV4255771	Price
1/4	1/4	2	AV4255772TIALN	Price	AV4255772	Price
3/8	1/4	2-5/8	AV4255773TIALN	Price	AV4255773	Price
1/2	1/4	2-5/8	AV4255774TIALN	Price	AV4255774	Price
5/8	3/8	2-3/4	AV4255775TIALN	Price	AV4255775	Price
3/4	3/8	2-3/4	AV4255776TIALN	Price	AV4255776	Price
1	1/2	3	AV4255777TIALN	Price	AV4255777	Price
1-1/4	3/4	3-1/4	AV4255778TIALN	Price	AV4255778	Price

- 60°						
			TiAlN		Uncoated	
Body Dia. (in.)	Shank Dia. (in.)	OAL. (in.)	Order No.	Price	Order No.	Price
1/8	1/8	1-1/2	AV4255740TIALN	Price	AV4255740	Price
3/16	3/16	2	AV4255741TIALN	Price	AV4255741	Price
1/4	1/4	2	AV4255742TIALN	Price	AV4255742	Price
3/8	1/4	2-7/8	AV4255743TIALN	Price	AV4255743	Price
1/2	1/4	2-7/8	AV4255744TIALN	Price	AV4255744	Price
5/8	3/8	3	AV4255745TIALN	Price	AV4255745	Price
3/4	3/8	3	AV4255746TIALN	Price	AV4255746	Price
1	1/2	3-1/4	AV4255747TIALN	Price	AV4255747	Price
1-1/4	3/4	3-1/4	AV4255748TIALN	Price	AV4255748	Price

- 82°						
			TiAlN		Uncoated	
Body Dia. (in.)	Shank Dia. (in.)	OAL. (in.)	Order No.	Price	Order No.	Price
1/8	1/8	1-1/2	AV4255750TIALN	Price	AV4255750	Price
3/16	3/16	2	AV4255751TIALN	Price	AV4255751	Price
1/4	1/4	2	AV4255752TIALN	Price	AV4255752	Price
3/8	1/4	2-5/8	AV4255753TIALN	Price	AV4255753	Price
1/2	1/4	2-5/8	AV4255754TIALN	Price	AV4255754	Price
5/8	3/8	2-3/4	AV4255755TIALN	Price	AV4255755	Price
3/4	3/8	2-3/4	AV4255756TIALN	Price	AV4255756	Price
1	1/2	3	AV4255757TIALN	Price	AV4255757	Price
1-1/4	3/4	3-1/4	AV4255758TIALN	Price	AV4255758	Price

- 90°						
			TiAlN		Uncoated	
Body Dia. (in.)	Shank Dia. (in.)	OAL. (in.)	Order No.	Price	Order No.	Price
1/8	1/8	1-1/2	AV4255760TIALN	Price	AV4255760	Price
3/16	3/16	2	AV4255761TIALN	Price	AV4255761	Price
1/4	1/4	2	AV4255762TIALN	Price	AV4255762	Price
3/8	1/4	2-5/8	AV4255763TIALN	Price	AV4255763	Price
1/2	1/4	2-5/8	AV4255764TIALN	Price	AV4255764	Price
5/8	3/8	2-3/4	AV4255765TIALN	Price	AV4255765	Price
3/4	3/8	2-3/4	AV4255766TIALN	Price	AV4255766	Price
1	1/2	3	AV4255767TIALN	Price	AV4255767	Price
1-1/4	3/4	3-1/4	AV4255768TIALN	Price	AV4255768	Price

5 Pc. 3 Flute Countersink Sets

Carbide • 60, 82, 90 and 100°

- Each set includes one of each :1/4, 3/8, 1/2, 5/8, 3/4”
- Available in uncoated or TiAlN coated



	TiAlN		Uncoated	
Angle	Order No.	Price	Order No.	Price
60°	AV4255749TiALN	Price	AV4255749	Price
82°	AV4255759TiALN	Price	AV4255759	Price
90°	AV4255769TiALN	Price	AV4255769	Price
100°	AV4255779TiALN	Price	AV4255779	Price

Center Reamers





High Speed Steel • 4 Flute

- For countersinking holes for centers or for enlarging existing holes

				60°		82°		90°	
Body Dia. (in.)	Shank Dia. (in.)	Shank Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1-1/4	1/2	1-1/4	3	AV4251146	Price	AV4251148	Price	AV4251149	Price
1-1/2	3/4	1-1/4	3-1/4	AV4251126	Price	AV4251128	Price	AV4251129	Price
1-3/4	3/4	1-1/4	3-1/2	AV4251346	Price	AV4251348	Price	AV4251349	Price
2	3/4	1-1/4	3-3/4	AV4252006	Price	AV4252008	Price	AV4252009	Price

Machine Countersinks





High Speed Steel • 4 Flute

- For countersinking holes for centers or for enlarging existing holes
- Longer than standard lengths

				60°		82°		90°	
Body Dia. (in.)	Shank Dia. (in.)	Shank Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/2	1/2	2-1/4	3-7/8	AV4240126	Price	AV4240128	Price	AV4240129	Price
5/8	1/2	2-1/4	4	AV4240586	Price	AV4240588	Price	AV4240589	Price
3/4	1/2	2-1/4	4-1/8	AV4240346	Price	AV4240348	Price	AV4240349	Price
7/8	1/2	2-1/4	4-1/4	AV4240786	Price	AV4240788	Price	AV4240789	Price
1	1/2	2-1/4	4-3/8	AV4241006	Price	AV4241008	Price	AV4241009	Price

PROCUT Machine Countersinks



High Speed Steel • 4 Flute

- For countersinking holes for centers or for enlarging existing holes
- Longer than standard lengths

			60°		82°		90°	
Size (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/2	1/2	3-7/8	BB51MC860	Price	BB51MC882	Price	BB51MC890	Price
5/8	1/2	4	BB51MC1060	Price	BB51MC1082	Price	BB51MC1090	Price
3/4	1/2	4-1/8	BB51MC1260	Price	BB51MC1282	Price	BB51MC1290	Price
7/8	1/2	4-1/4	BB51MC1460	Price	BB51MC1482	Price	BB51MC1490	Price
1	1/2	4-3/8	BB51MC1660	Price	BB51MC1682	Price	BB51MC1690	Price
1-1/4	1/2	5	BB51MC2060	Price	BB51MC2082	Price	BB51MC2090	Price
1-1/2	1/2	5-3/8	BB51MC2460	Price	BB51MC2482	Price	BB51MC2490	Price

PROCUT Machine Countersink Sets



High Speed Steel • 4 Flute • With Stand

	60°		82°		90°	
Sizes Included	Order No.	Price	Order No.	Price	Order No.	Price
1/2, 5/8, 3/4, 7/8, 1	BB51MCS10060	Price	BB51MCS10082	Price	BB51MCS10090	Price
1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2	-	-	BB51MCS15082	Price	BB51MCS15090	Price

RAPIDKUT 6 Flute Countersinks



High Speed Steel • CNC Precision

- Use on CNC and preset machines
- Tight dimensions on length and angle ensure setting accuracy and repeatability

			60°		82°		90°		120°	
Size (in.)	Shank (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
3/16	3/16	1-1/2	BC6318498	Price	BC6318499	Price	BC6318500	Price	BC6318503	Price
1/4	1/4	2	BC6318504	Price	BC6318505	Price	BC6318506	Price	BC6318509	Price
5/16	1/4	2	BC6318510	Price	BC6318511	Price	BC6318512	Price	BC6318516	Price
3/8	1/4	2	BC6318517	Price	BC6318518	Price	BC6318520	Price	BC6318523	Price
1/2	3/8	2	BC6318524	Price	BC6318525	Price	BC6318526	Price	BC6318529	Price
5/8	3/8	2-1/4	BC6318530	Price	BC6318531	Price	BC6318532	Price	BC6318536	Price
3/4	1/2	2-1/4	BC6318537	Price	BC6318538	Price	BC6318539	Price	BC6318542	Price
7/8	1/2	2-3/4	BC6318543	Price	BC6318544	Price	BC6318545	Price	BC6318549	Price
1	1/2	2-3/4	BC6318550	Price	BC6318551	Price	BC6318552	Price	BC6318555	Price

6 Flute Chatterless Countersinks



High Speed Steel

- Designed for economical, general purpose countersinking, chamfering or deburring
- Because of the multiple flute design, chip loads are generally smaller and even at maximum speeds, chatter-free machining is possible
- Steam homogeneous surface treatment (blackening) to prolong tool life and prevent galling
- M A Ford Series #79

			60°		82°		90°		100°		120°	
Size (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	1-1/2	BC7579021	Price	BC7579026	Price	BC7579031	Price	BC7579036	Price	BC7579041	Price
3/16	3/16	1-1/2	BC7579046	Price	BC7579051	Price	BC7579056	Price	BC7579061	Price	BC7579066	Price
1/4	1/4	2	BC7579071	Price	BC7579076	Price	BC7579081	Price	BC7579086	Price	BC7579091	Price
5/16	1/4	2	BC7579096	Price	BC7579101	Price	BC7579106	Price	BC7579111	Price	BC7579116	Price
3/8	1/4	2	BC7579121	Price	BC7579126	Price	BC7579131	Price	BC7579136	Price	BC7579141	Price
1/2	3/8	2	BC7579146	Price	BC7579151	Price	BC7579156	Price	BC7579161	Price	BC7579166	Price
5/8	3/8	2-1/4	BC7579171	Price	BC7579176	Price	BC7579181	Price	BC7579186	Price	BC7579191	Price
3/4	1/2	2-3/4	BC7579196	Price	BC7579201	Price	BC7579206	Price	BC7579211	Price	BC7579216	Price
7/8	1/2	2-3/4	BC7579221	Price	BC7579226	Price	BC7579231	Price	BC7579236	Price	BC7579241	Price
1	1/2	2-3/4	BC7579246	Price	BC7579251	Price	BC7579256	Price	BC7579261	Price	BC7579266	Price
1-1/4	1/2	3	BC7579271†	Price	BC7579276†	Price	BC7579281†	Price	BC7579286†	Price	BC7579291†	Price
1-1/2	3/4	3-1/2	BC7579296†	Price	BC7579301†	Price	BC7579306†	Price	BC7579311†	Price	BC7579316†	Price
2	3/4	3-3/4	BC7579321†	Price	BC7579326†	Price	BC7579331†	Price	BC7579336†	Price	BC7579341†	Price
2-1/2	3/4	5	BC7579346†	Price	BC7579351†	Price	BC7579356†	Price	-	-	-	-
3	3/4	5-1/4	BC7579361†	Price	BC7579366†	Price	BC7579371†	Price	-	-	-	-

†Straight shank with tang drive.

PROCUT 6 Flute Chatterless Countersinks



High Speed Steel

			60°		82°		90°		100°		120°	
Size (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
3/16	3/16	1-1/2	BC50HC105060	Price	BC50HC105082	Price	BC50HC105090	Price	BC50HC1050100	Price	BC50HC1050120	Price
1/4	1/4	2	BC50HC105160	Price	BC50HC105182	Price	BC50HC105190	Price	BC50HC1051100	Price	BC50HC1051120	Price
5/16	1/4	2	BC50HC105260	Price	BC50HC105282	Price	BC50HC105290	Price	BC50HC1052100	Price	BC50HC1052120	Price
3/8	1/4	2	BC50HC105360	Price	BC50HC105382	Price	BC50HC105390	Price	BC50HC1053100	Price	BC50HC1053120	Price
1/2	1/4	2	BC50HC105460	Price	BC50HC105482	Price	BC50HC105490	Price	BC50HC1054100	Price	BC50HC1054120	Price
5/8	1/2	2-1/2	BC50HC105560	Price	BC50HC105582	Price	BC50HC105590	Price	BC50HC1055100	Price	BC50HC1055120	Price
3/4	1/2	2-3/4	BC50HC105660	Price	BC50HC105682	Price	BC50HC105690	Price	BC50HC1056100	Price	BC50HC1056120	Price
7/8	1/2	2-3/4	BC50HC105760	Price	BC50HC105782	Price	BC50HC105790	Price	BC50HC1057100	Price	BC50HC1057120	Price
1	1/2	2-3/4	BC50HC105860	Price	BC50HC105882	Price	BC50HC105890	Price	BC50HC1058100	Price	BC50HC1058120	Price
1-1/4	3/4	3-3/8	BC50HC105960	Price	BC50HC105982	Price	BC50HC105990	Price	-	-	BC50HC1059120	Price
1-1/2	3/4	3-1/2	BC50HC106060	Price	BC50HC106082	Price	BC50HC106090	Price	BC50HC1060100	Price	BC50HC1060120	Price
1-3/4	1	4-1/4	BC50HC106160	Price	BC50HC106182	Price	BC50HC106190	Price	-	-	-	-
2	1	4-3/8	BC50HC106260	Price	BC50HC106282	Price	BC50HC106290	Price	-	-	-	-

KEO 6 Flute Chatterless Countersinks





High Speed Steel

- For greater material removal per revolution

				60°		82°		90°		100°		110°		120°	
Body Dia. (in.)	Shank Dia. (in.)	Shank Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	-	1-1/4	AV4255000	Price	AV4255020	Price	AV4255040	Price	AV4255060	Price	AV4255080	Price	AV4255100	Price
3/16	3/16	-	1-3/8	AV4255001	Price	AV4255021	Price	AV4255041	Price	AV4255061	Price	AV4255081	Price	AV4255101	Price
1/4	1/4	7/8	1-1/2	AV4255002	Price	AV4255022	Price	AV4255042	Price	AV4255062	Price	AV4255082	Price	AV4255102	Price
5/16	1/4	7/8	1-3/4	AV4255003	Price	AV4255023	Price	AV4255043	Price	AV4255063	Price	AV4255083	Price	AV4255103	Price
3/8	1/4	7/8	1-3/4	AV4255004	Price	AV4255024	Price	AV4255044	Price	AV4255064	Price	AV4255084	Price	AV4255104	Price
1/2	1/4	1	2	AV4255005	Price	AV4255025	Price	AV4255045	Price	AV4255065	Price	AV4255085	Price	AV4255105	Price
1/2	3/8	1	2	AV4255006	Price	AV4255026	Price	AV4255046	Price	AV4255066	Price	AV4255086	Price	AV4255106	Price
5/8	1/4	1	2-1/4	AV4255007	Price	AV4255027	Price	AV4255047	Price	AV4255067	Price	AV4255087	Price	AV4255107	Price
5/8	3/8	1	2-1/4	AV4255008	Price	AV4255028	Price	AV4255048	Price	AV4255068	Price	AV4255088	Price	AV4255108	Price
3/4	1/2	1-1/4	2-5/8	AV4255009	Price	AV4255029	Price	AV4255049	Price	AV4255069	Price	AV4255089	Price	AV4255109	Price
7/8	1/2	1-1/4	2-3/4	AV4255010	Price	AV4255030	Price	AV4255050	Price	AV4255070	Price	AV4255090	Price	AV4255110	Price
1	1/2	1-1/4	2-3/4	AV4255011	Price	AV4255031	Price	AV4255051	Price	AV4255071	Price	AV4255091	Price	AV4255111	Price
1-1/4	1/2	1-1/4	2-3/4	AV4255012†	62.10	AV4255032	Price	AV4255052	Price	AV4255072	Price	AV4255092	Price	AV4255112	Price
1-1/2	3/4	1-1/4	2-7/8	AV4255013†	89.00	AV4255033	Price	AV4255053	Price	AV4255073	Price	AV4255093	Price	AV4255113	Price
1-3/4	3/4	1-1/4	3	AV4255014†	118.35	AV4255034	Price	AV4255054	Price	AV4255074	Price	AV4255094	Price	AV4255114	Price
2	3/4	1-1/4	3-1/4	AV4255015†	150.50	AV4255035	Price	AV4255055	Price	AV4255075	Price	AV4255095	Price	AV4255115	Price

†60º OAL 3, 3-1/4, 3-1/2 and 3-3/4, respectively. Available in larger sizes and sets.

CNC-K™ Precision 6 Flute Countersinks — High Speed Steel

- Designed specifically for use in NC, CNC and preset machine tools
- Feature Chatterless™ tooth geometry, using staggered cutting angles to eliminate the cause of harmonic vibration
- Close tolerances on cutting angles, diameters and lengths assure setting accuracy and excellent performance
- May be resharpened many times for ultimate economy

Technical and Programming Information

NOTE: For any depth the countersink diameter expands in a direct ratio. As you travel in the (A) direction along the axis of the countersink (X) expands in a direct relationship to angle (K) (forming an angle with the tangent of X/A)

Since the angle expands on both sides of the frilled hole: you must use 2 times the tangent of the angle for your ratio (R).

Price (K)	Ratio (R) = 2X/A
32°	1.15
41°	1.74
45°	2.00
50°	2.38
55°	2.86
60°	3.46

Angle (K) Tangent = X/A

Calculations
C = H + RA
A = (C - H)/R
S = (C - D)/R

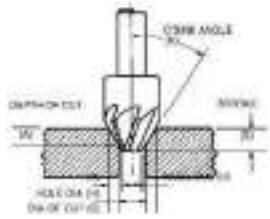


Example:

.500 hole diameter, countersink to .875 cut diameter with 41° angle (use NCK-1"-41°)

A = .875 - .500 / 1.74 = .216

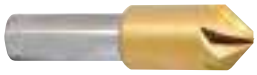
S = .875 - .203 / 1.74 = .386



					60°				82°				Price			
					Carbide		High Speed Steel		Carbide		High Speed Steel		Carbide		High Speed Steel	
Size (in.)	Nose Dia. +.001-.000	Shank Dia. (in.)	OAL (in.)	Shank Length (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/4	.046	3/16	1-1/2	3/4	-	-	-	-	BC5403130	Price	BC5402980	Price	BC5403140	Price	BC5402990	Price
1/4	.078	3/16	1-1/2	3/4	BC5403120	Price	BC5402970	Price	-	-	-	-	-	-	-	-
3/8	.078	1/4	1-3/4	7/8	-	-	-	-	BC5403131	Price	BC5402981	Price	BC5403141	Price	BC5402991	Price
3/8	.125	1/4	1-3/4	7/8	BC5403121	Price	BC5402971	Price	-	-	-	-	-	-	-	-
1/2	.109	3/8	2-1/4	1-1/8	-	-	-	-	BC5403132	Price	-	-	BC5403142	Price	-	-
1/2	.109	3/8	2-1/8	1-1/8	-	-	-	-	-	-	BC5402982	Price	-	-	BC5402992	Price
1/2	.156	3/8	2-1/4	1-1/8	BC5403122	Price	-	-	-	-	-	-	-	-	-	-
1/2	.156	3/8	2-1/8	1-1/8	-	-	BC5402972	Price	-	-	-	-	-	-	-	-
5/8	.023	3/8	2-3/8	1-1/8	BC5403123	Price	BC5402973	Price	-	-	-	-	-	-	-	-
5/8	.125	3/8	2-3/8	1-1/8	-	-	-	-	BC5403133	Price	BC5402983	Price	BC5403143	Price	BC5402993	Price
3/4	.156	1/2	2-11/16	1-5/16	-	-	-	-	BC5403134	Price	BC5402984	Price	BC5403144	Price	BC5402994	Price
3/4	.250	1/2	2-11/16	1-5/16	BC5403124	Price	BC5402974	Price	-	-	-	-	-	-	-	-
7/8	.172	1/2	2-13/16	1-5/16	-	-	-	-	BC5403135	Price	BC5402985	Price	BC5403145	Price	BC5402995	Price
7/8	.281	1/2	2-13/16	1-5/16	BC5403125	Price	BC5402975	Price	-	-	-	-	-	-	-	-
1	.203	1/2	2-13/16	1-5/16	-	-	-	-	BC5403136	Price	BC5402986	Price	BC5403146	Price	BC5402996	Price
1	.328	1/2	2-13/16	1-5/16	BC5403126	Price	BC5402976	Price	-	-	-	-	-	-	-	-

RAPIDKUT 6 Flute Countersinks

M-42 Cobalt • TiN Coated

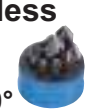


- Excellent for countersinking abrasive, high-strength, heat resistant, exotic, and other difficult to machine materials
- TiN coated for higher surface hardness and better lubricity
- Coating can also help to enhance productivity and extend tool life

			120°		60°		82°		90°	
Size (in.)	Shank (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	1-1/2	BC6418187	Price	BC6418182	Price	BC6418183	Price	BC6418184	Price
3/16	3/16	1-1/2	BC6418193	Price	BC6418188	Price	BC6418189	Price	BC6418190	Price
1/4	1/4	2	BC6418199	Price	BC6418194	Price	BC6418195	Price	BC6418196	Price
5/16	1/4	2	BC6418205	Price	BC6418200	Price	BC6418201	Price	BC6418202	Price
3/8	1/4	2	BC6418211	Price	BC6418206	Price	BC6418207	Price	BC6418208	Price
1/2	3/8	2	BC6418217	Price	BC6418212	Price	BC6418213	Price	BC6418214	Price
5/8	3/8	2-1/4	BC6418223	Price	BC6418218	Price	BC6418219	Price	BC6418220	Price
3/4	1/2	2-3/4	BC6418229	Price	BC6418224	Price	BC6418225	Price	BC6418226	Price
7/8	1/2	2-3/4	BC6418235	Price	BC6418230	Price	BC6418231	Price	BC6418232	Price
1	1/2	2-3/4	BC6418241	Price	BC6418236	Price	BC6418237	Price	BC6418238	Price
1-1/4	1/2	3	-	-	BC6418242	Price	BC6418243	Price	BC6418244	Price

PROCUT 6-Flute Chatterless Countersink Sets

High Speed Steel • 60°, 82° & 90°



Set Range (in.)	No. of Pieces	Included Angle	Order No.	Price
1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1	8	60°	BC55R20060	Price
1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1	8	82°	BC55R20082	Price
1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1	8	90°	BC55R20090	Price
3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2	11	60°	BC55R21060	Price
3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2	11	82°	BC55R21082	Price
3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1-1/4, 1-1/2	11	90°	BC55R21090	Price

6 Flute Chatterless Countersink Sets

High Speed Steel • In Plastic Case



- 7 Piece sets include: 1/4, 5/16, 3/8, 1/2, 5/8, 3/4 and 1" diameter tools
- 4 Piece sets include: 1/4, 1/2, 3/4 and 1" diameter tools
- M A Ford Series #79

No. of Pieces - 4		
Incl. Angle	Order No.	Price
60°	BC7579003	Price
82°	BC7579008	Price
90°	BC7579013	Price
100°	BC7579019	Price

No. of Pieces - 4-TiN		
Incl. Angle	Order No.	Price
60°	BC7579380	Price
82°	BC7579382	Price

No. of Pieces - 4-TiN		
Incl. Angle	Order No.	Price
90°	BC7579384	Price

No. of Pieces - 7		
Incl.	Order No.	Price
60°	BC7579001	Price
82°	BC7579006	Price
90°	BC7579011	Price
100°	BC7579016	Price

5 Pc. 6 Flute Chatterless Countersink Sets

Carbide • 60, 82, 90 and 100°



- Each set includes one of each :1/4, 3/8, 1/2, 5/8, 3/4"
- Available in uncoated or TiAlN coated

	TiAlN		Uncoated	
Angle	Order No.	Price	Order No.	Price
60°	AV4255790TiALN	Price	AV4255790	Price
82°	AV4255801TiALN	Price	AV4255801	Price
90°	AV4255812TiALN	Price	AV4255812	Price
100°	AV4255823TiALN	Price	AV4255823	Price

RAPIDKUT Solid Carbide 6 Flute Countersink Sets

60°, 82°, and 90° • In Plastic Case



- Long life on most materials including hardened steels, high temperature alloys, cast iron, and other highly abrasive materials
- Made from premium submicron grade carbide

Set Range (in.)	No. of Pieces	Included Angle	Order No.	Price
1/4, 3/8, 1/2, 3/4, 1	5	60°	BC55R22060	Price
1/4, 3/8, 1/2, 3/4, 1	5	82°	BC55R22082	Price
1/4, 3/8, 1/2, 3/4, 1	5	90°	BC55R22090	Price

RAPIDKUT® Solid Carbide 6 Flute Countersinks Chatterless



- Long life on most materials including hardened steels, high temperature alloys, cast iron, and other highly abrasive materials
- Made from premium submicron grade carbide

			60°		82°		90°		100°		120°	
Size (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
3/16	3/16	1-1/2	BC51CC106560	Price	BC51CC106582	Price	BC51CC106590	Price	BC51CC1065100	Price	BC51CC1065120	Price
1/4	1/4	2	BC51CC106660	Price	BC51CC106682	Price	BC51CC106690	Price	BC51CC1066100	Price	BC51CC1066120	Price
5/16	1/4	2	BC51CC106760	Price	BC51CC106782	Price	BC51CC106790	Price	BC51CC1067100	Price	BC51CC1067120	Price
3/8	1/4	2	BC51CC106860	Price	BC51CC106882	Price	BC51CC106890	Price	BC51CC1068100	Price	BC51CC1068120	Price
1/2	3/8	2	BC51CC106960	Price	BC51CC106982	Price	BC51CC106990	Price	BC51CC1069100	Price	BC51CC1069120	Price
5/8	3/8	2-1/2	BC51CC107060	Price	BC51CC107082	Price	BC51CC107090	Price	BC51CC1070100	Price	BC51CC1070120	Price
3/4	1/2	2-3/4	BC51CC107160	Price	BC51CC107182	Price	BC51CC107190	Price	BC51CC1071100	Price	BC51CC1071120	Price
7/8	1/2	2-3/4	BC51CC107260	Price	BC51CC107282	Price	BC51CC107290	Price	-	-	-	-
1	1/2	2-3/4	BC51CC107360	Price	BC51CC107382	Price	BC51CC107390	Price	BC51CC1073100	Price	BC51CC1073120	Price
1-1/4	3/4	3-3/8	BC51CC107460	Price	BC51CC107482	Price	BC51CC107490	Price	-	-	-	-

Carbide Chatterless Countersinks Carbide • 6 Flute

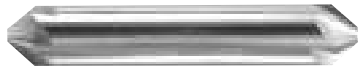


- Solid carbide construction (steel shanks on tools 3/8" diameter and larger)
- Ideal for hardened steel, high temperature alloys and other tough jobs
- M A Ford Series #78

			60°		82°		90°		100°		120°	
Size (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	1-1/2	BC7378001	Price	BC7378006	Price	BC7378011	Price	BC7378016	Price	BC7378021	Price
3/16	3/16	1-1/2	BC7378026	Price	BC7378031	Price	BC7378036	Price	BC7378041	Price	BC7378046	Price
1/4	1/4	2	BC7378051	Price	BC7378056	Price	BC7378061	Price	BC7378066	Price	BC7378071	Price
3/8	1/4	2	BC7378076	Price	BC7378081	Price	BC7378086	Price	BC7378091	Price	BC7378096	Price
1/2	3/8	2-1/4	BC7378101	Price	BC7378106	Price	BC7378111	Price	BC7378116	Price	BC7378121	Price
5/8	3/8	2-3/8	BC7378126	Price	BC7378131	Price	BC7378136	Price	BC7378141	Price	BC7378146	Price
3/4	1/2	2-3/4	BC7378151	Price	BC7378156	Price	BC7378161	Price	BC7378166	Price	BC7378171	Price
1	1/2	2-3/4	BC7378176	Price	BC7378181	Price	BC7378186	Price	BC7378191	Price	BC7378196	Price
1-1/4	1/2	3	BC7378201†	Price	BC7378206†	Price	BC7378211†	Price	-	-	-	-
1-1/2	3/4	3-1/2	BC7378216†	Price	BC7378221†	Price	BC7378226†	Price	-	-	-	-

†Straight shank with tang drive.

RAPIDKUT® Solid Carbide 6 Flute Countersinks Double End



- Two cutting ends give you twice the tool life of a single end tool
- Made from premium submicron grain carbide

			60°		82°		90°		120°	
Size (in.)	Shank (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	1-1/2	BC6518448	Price	BC6518449	Price	BC6518450	Price	BC6518452	Price
3/16	3/16	1-1/2	BC6518453	Price	BC6518454	Price	BC6518455	Price	BC6518457	Price
1/4	1/4	2	BC6518458	Price	BC6518459	Price	BC6518460	Price	BC6518462	Price
5/16	5/16	2-1/2	BC6518463	Price	BC6518464	Price	BC6518465	Price	BC6518467	Price
3/8	3/8	2-1/2	BC6518468	Price	BC6518469	Price	BC6518470	Price	BC6518472	Price
1/2	1/2	3	BC6518473	Price	BC6518474	Price	BC6518475	Price	BC6518477	Price
5/8	5/8	3-1/2	BC6518478	Price	BC6518820	Price	BC6518480	Price	BC6518482	Price
3/4	3/4	4	BC6518483	Price	BC6518484	Price	BC6518485	Price	BC6518487	Price

KEO 6 Flute Chatterless Countersinks Carbide • 60, 82, 90 and 100°



- Available uncoated or TiAlN coated

Price						
			TiAlN		Uncoated	
Body Dia. (in.)	Shank Dia. (in.)	OAL. (in.)	Order No.	Price	Order No.	Price
1/8	1/8	1-1/2	AV4255780TIALN	Price	AV4255780	Price
3/16	3/16	2	AV4255781TIALN	Price	AV4255781	Price
1/4	1/4	2	AV4255782TIALN	Price	AV4255782	Price
3/8	1/4	2-3/4	AV4255783TIALN	Price	AV4255783	Price
1/2	1/4	2-3/4	AV4255784TIALN	Price	AV4255784	Price
5/8	3/8	2-7/8	AV4255785TIALN	Price	AV4255785	Price
3/4	3/8	3	AV4255786TIALN	Price	AV4255786	Price
1	1/2	3-1/4	AV4255787TIALN	Price	AV4255787	Price
1-1/4	3/4	3-3/4	AV4255788TIALN	Price	AV4255788	Price
1-1/2	3/4	3-3/4	AV4255789TIALN	Price	AV4255789	Price

- 90°						
			TiAlN		Uncoated	
Body Dia. (in.)	Shank Dia. (in.)	OAL. (in.)	Order No.	Price	Order No.	Price
1/8	1/8	1-1/2	AV4255802TIALN	Price	AV4255802	Price
3/16	3/16	2	AV4255803TIALN	Price	AV4255803	Price
1/4	1/4	2	AV4255804TIALN	Price	AV4255804	Price
3/8	1/4	2-5/8	AV4255805TIALN	Price	AV4255805	Price
1/2	1/4	2-5/8	AV4255806TIALN	Price	AV4255806	Price
5/8	3/8	2-3/4	AV4255807TIALN	Price	AV4255807	Price
3/4	3/8	2-3/4	AV4255808TIALN	Price	AV4255808	Price
1	1/2	3	AV4255809TIALN	Price	AV4255809	Price
1-1/4	3/4	3-1/4	AV4255810TIALN	Price	AV4255810	Price
1-1/2	3/4	3-1/4	AV4255811TIALN	Price	AV4255811	Price

82°						
			TiAlN		Uncoated	
Body Dia. (in.)	Shank Dia. (in.)	OAL. (in.)	Order No.	Price	Order No.	Price
1/8	1/8	1-1/2	AV4255791TIALN	Price	AV4255791	Price
3/16	3/16	2	AV4255792TIALN	Price	AV4255792	Price
1/4	1/4	2	AV4255793TIALN	Price	AV4255793	Price
3/8	1/4	2-5/8	AV4255794TIALN	Price	AV4255794	Price
1/2	1/4	2-5/8	AV4255795TIALN	Price	AV4255795	Price
5/8	3/8	2-3/4	AV4255796TIALN	Price	AV4255796	Price
3/4	3/8	2-3/4	AV4255797TIALN	Price	AV4255797	Price
1	1/2	3	AV4255798TIALN	Price	AV4255798	Price
1-1/4	3/4	3-1/4	AV4255799TIALN	Price	AV4255799	Price
1-1/2	3/4	3-1/4	AV4255800TIALN	Price	AV4255800	Price

- 100°						
			TiAlN		Uncoated	
Body Dia. (in.)	Shank Dia. (in.)	OAL. (in.)	Order No.	Price	Order No.	Price
1/8	1/8	1-1/2	AV4255813TIALN	Price	AV4255813	Price
3/16	3/16	2	AV4255814TIALN	Price	AV4255814	Price
1/4	1/4	2	AV4255815TIALN	Price	AV4255815	Price
3/8	1/4	2-5/8	AV4255816TIALN	Price	AV4255816	Price
1/2	1/4	2-5/8	AV4255817TIALN	Price	AV4255817	Price
5/8	3/8	2-3/4	AV4255818TIALN	Price	AV4255818	Price
3/4	3/8	2-3/4	AV4255819TIALN	Price	AV4255819	Price
1	1/2	3	AV4255820TIALN	Price	AV4255820	Price
1-1/4	3/4	3-1/4	AV4255821TIALN	Price	AV4255821	Price
1-1/2	3/4	3-1/4	AV4255822TIALN	Price	AV4255822	Price

Sunchance 3N1™ Spot, Drill, and Countersink Cutter





High Speed Steel and Carbide

- Conventional thin-web drill point that is blended into two flutes of a four-flute chatter-free countersink…to perform two or all three of the steps in a spot-drill-countersink and edge chamfer operations
- Spot drill, countersink, and edge chamfer
- Double end

Material - High Speed Steel								
			60°		82°		Price	
Size (in.)	Shank Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1-1/2	1-1/2	**BC5401585**	Price	**BC5401595**	Price	**BC5401605**	Price
3/16	1-7/8	1-7/8	**BC5401586**	Price	**BC5401596**	Price	**BC5401606**	Price
1/4	2	2	**BC5401587**	Price	**BC5401597**	Price	**BC5401607**	Price
5/16	2-1/8	2-1/8	**BC5401588**	Price	**BC5401598**	Price	**BC5401608**	Price
3/8	2-1/2	2-1/2	**BC5401589**	Price	**BC5401599**	Price	**BC5401609**	Price
1/2	3	3	**BC5401590**	Price	**BC5401600**	Price	**BC5401610**	Price
5/8	3-1/4	3-1/4	**BC5401591**	Price	**BC5401601**	Price	**BC5401611**	Price
3/4	3-1/2	3-1/2	**BC5401592**	Price	**BC5401602**	Price	**BC5401612**	Price

Material - Carbide								
			60°		82°		90°	
Size (in.)	Shank Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1-1/2	1-1/2	**BC5401650**	Price	**BC5401670**	Price	**BC5401680**	Price
3/16	1-7/8	1-7/8	**BC5401651**	Price	**BC5401671**	Price	**BC5401681**	Price
1/4	2	2	**BC5401652**	Price	**BC5401672**	Price	**BC5401682**	Price
5/16	2-1/8	2-1/8	**BC5401653**	Price	**BC5401673**	Price	**BC5401683**	Price
3/8	2-1/2	2-1/2	**BC5401654**	Price	**BC5401674**	Price	**BC5401684**	Price
1/2	3	3	**BC5401655**	Price	**BC5401675**	Price	**BC5401685**	Price
5/8	3-1/4	3-1/4	**BC5401656**	Price	**BC5401676**	Price	**BC5401686**	Price
3/4	3-1/2	3-1/2	**-**	-	**-**	-	**BC5401687**	Price

Sunchance 3N1™ Drill Point, Single Ended Countersink



High Speed Steel

				60°		82°		90°	
Size (in.)	Shank Dia. (in.)	Shank Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	1-5/8	1-5/8	**BC5401473**	Price	**BC5401488**	Price	**BC5401503**	Price
3/16	3/16	1-1/2	1-5/8	**BC5401474**	Price	**BC5401489**	Price	**BC5401504**	Price
1/4	3/16	3/4	1-1/2	**BC5401470**	Price	**BC5401485**	Price	**BC5401500**	Price
5/16	1/4	7/8	1-3/4	**BC5401475**	Price	**BC5401490**	Price	**BC5401505**	Price
3/8	1/4	7/8	1-3/4	**BC5401471**	Price	**BC5401486**	Price	**BC5401501**	Price
1/2	3/8	1-1/8	2-1/8	**BC5401472**	Price	**BC5401487**	Price	**BC5401502**	Price
5/8	3/8	1-1/8	2-3/8	**BC5401476**	Price	**BC5401491**	Price	**BC5401506**	Price
3/4	1/2	1-5/16	2-11/16	**BC5401477**	Price	**BC5401492**	Price	**BC5401507**	Price
7/8	1/2	1-5/16	2-13/16	**BC5401478**	Price	**BC5401493**	Price	**BC5401508**	Price
1	1/2	1-5/16	2-13/16	**BC5401479**	Price	**BC5401494**	Price	**BC5401509**	Price

Sunchance Tube End Forming Cutters



High Speed Steel

- Used to produce a smooth, round lip on all types of tubing, including steel, copper, aluminum, plastic and other materials
- Not recommended for tubing with irregular wall thickness or for interrupted cutting

Tubing OD - 3/16						
Gauge	Wall Thickness	Shank Dia. (in.)	Head Size (in.)	OAL (in.)	Order No.	Price
22	.028	3/8	1/2	1-9/16	**BC54A3028**	Price
25	.020	3/8	1/2	1-9/16	**BC54A3020**	Price

Tubing OD - 1/4						
Gauge	Wall Thickness	Shank Dia. (in.)	Head Size (in.)	OAL (in.)	Order No.	Price
21	.032	3/8	1/2	1-9/16	**BC54A4032**	Price
22	.028	3/8	1/2	1-9/16	**BC54A4028**	Price
25	.020	3/8	1/2	1-9/16	**BC54A4020**	Price

Tubing OD - 5/16						
Gauge	Wall Thickness	Shank Dia. (in.)	Head Size (in.)	OAL (in.)	Order No.	Price
20	.035	3/8	9/16	1-9/16	**BC54A5035**	Price
21	.032	3/8	9/16	1-9/16	**BC54A5032**	Price
22	.028	3/8	9/16	1-9/16	**BC54A5028**	Price
25	.020	3/8	9/16	1-9/16	**BC54A5020**	Price

Tubing OD - 3/8						
Gauge	Wall Thickness	Shank Dia. (in.)	Head Size (in.)	OAL (in.)	Order No.	Price
20	.035	1/2	3/4	1-9/16	**BC54A6035**	Price
21	.032	1/2	3/4	1-9/16	**BC54A6032**	Price
22	.028	1/2	3/4	1-9/16	**BC54A6028**	Price
25	.020	1/2	3/4	1-9/16	**BC54A6020**	Price

Tubing OD - 1/2						
Gauge	Wall Thickness	Shank Dia. (in.)	Head Size (in.)	OAL (in.)	Order No.	Price
18	.049	1/2	3/4	1-9/16	**BC54A8049**	Price
20	.035	1/2	3/4	1-9/16	**BC54A8035**	Price
21	.032	1/2	3/4	1-9/16	**BC54A8032**	Price
22	.028	1/2	3/4	1-9/16	**BC54A8028**	Price
25	.020	1/2	3/4	1-9/16	**BC54A8020**	Price

Tubing OD - 9/16						
Gauge	Wall Thickness	Shank Dia. (in.)	Head Size (in.)	OAL (in.)	Order No.	Price
16	.065	1/2	7/8	1-5/8	**BC54A9065**	Price

Tubing OD - 5/8						
Gauge	Wall Thickness	Shank Dia. (in.)	Head Size (in.)	OAL (in.)	Order No.	Price
16	.065	1/2	7/8	1-5/8	**BC54A10065**	Price
17	.058	1/2	7/8	1-5/8	**BC54A10058**	Price
18	.049	1/2	7/8	1-5/8	**BC54A10049**	Price
20	.035	1/2	7/8	1-5/8	**BC54A10035**	Price
21	.032	1/2	7/8	1-5/8	**BC54A10032**	Price
22	.028	1/2	7/8	1-5/8	**BC54A10028**	Price

Sunstance® Carbide Inside Deburring Cutters

Shear Tooth Design

- For general purpose light deburring applications
- Multi-flute design is self piloting
- May be reground many times
- One tool can deburr many different hole diameters
- Large variety of shanks available
- Noses all come to a point
- Furnished in 60° and 90° angles
- The sectional shear-tooth pattern on these cutters is intended for deburring only
- For heavy chamfering, use chatterless countersinks
- 3/32 thru 1/4" are solid carbide and double end, 5/16 thru 1" are solid carbide heads brazed to hardened alloy precision ground shanks and single end





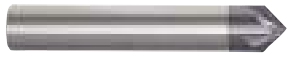
			60°		90°	
Size (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price
3/32	3/32	1-1/2	**BC5420620**	Price	**BC5420680**	Price
1/8	1/8	1-1/2	**BC5422250**	Price	**BC5422249**	Price
3/16	3/16	2	**BC5420622**	Price	**BC5420682**	Price
1/4	1/4	2	**BC5422411**	Price	**BC5422412**	Price
5/16	1/4	2-1/4	**BC5420628**	Price	**BC5420688**	Price
3/8	1/4	2-1/4	**BC5420629**	Price	**BC5420689**	Price
1/2	1/4	2-1/4	**BC5420633**	Price	**BC5420693**	Price
1/2	3/8	2-1/8	**BC5420634**	Price	**BC5420694**	Price
5/8	1/4	2-3/8	**BC5420639**	Price	**BC5420699**	Price
5/8	3/8	2-3/8	**BC5420640**	Price	**BC5420700**	Price
3/4	1/2	2-11/16	**BC5420644**	Price	**BC5420704**	Price
1	1/2	2-13/16	**BC5420650**	Price	**BC5420710**	Price

RAPIDKUT® Solid Carbide Chamfer Mills

2 & 4 Flute Single End

- Solid C-2 grade premium sub-micron grain carbide with 10% cobalt
- Center cutting
- Right hand cut
- Diameter tolerance: +.000 / -.002"
- Included angle tolerance: ±1°





Application:

- Eliminates hand deburring operations & provides consistent workpiece finishes

					Uncoated				TiAlN			
					2 Flute		4 Flute		2 Flute		4 Flute	
Dia. (in.)	Shank Dia. (in.)	LOC (in.)	OAL (in.)	Point Angle	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	1/2	1-1/2	60°	**DD5810000**	Price	**DD5820000**	Price	**DD5830000**	Price	**DD5840000**	Price
1/8	1/8	1/2	1-1/2	82°	**DD5810001**	Price	**DD5820001**	Price	**DD5830001**	Price	**DD5840001**	Price
1/8	1/8	1/2	1-1/2	90°	**DD5810002**	Price	**DD5820002**	Price	**DD5830002**	Price	**DD5840002**	Price
3/16	3/16	5/8	2	60°	**DD5810003**	Price	**DD5820003**	Price	**DD5830003**	Price	**DD5840003**	Price
3/16	3/16	5/8	2	82°	**DD5810004**	Price	**DD5820004**	Price	**DD5830004**	Price	**DD5840004**	Price
3/16	3/16	5/8	2	90°	**DD5810005**	Price	**DD5820005**	Price	**DD5830005**	Price	**DD5840005**	Price
1/4	1/4	3/4	2-1/2	60°	**DD5810006**	Price	**DD5820006**	Price	**DD5830006**	Price	**DD5840006**	Price
1/4	1/4	3/4	2-1/2	82°	**DD5810007**	Price	**DD5820007**	Price	**DD5830007**	Price	**DD5840007**	Price
1/4	1/4	3/4	2-1/2	90°	**DD5810008**	Price	**DD5820008**	Price	**DD5830008**	Price	**DD5840008**	Price
3/8	3/8	1	2-1/2	60°	**DD5810009**	Price	**DD5820009**	Price	**DD5830009**	Price	**DD5840009**	Price
3/8	3/8	1	2-1/2	82°	**DD5810010**	Price	**DD5820010**	Price	**DD5830010**	Price	**DD5840010**	Price
3/8	3/8	1	2-1/2	90°	**DD5810011**	Price	**DD5820011**	Price	**DD5830011**	Price	**DD5840011**	Price
1/2	1/2	1	3	60°	**DD5810012**	Price	**DD5820012**	Price	**DD5830012**	Price	**DD5840012**	Price
1/2	1/2	1	3	82°	**DD5810013**	Price	**DD5820013**	Price	**DD5830013**	Price	**DD5840013**	Price
1/2	1/2	1	3	90°	**DD5810014**	Price	**DD5820014**	Price	**DD5830014**	Price	**DD5840014**	Price
3/4	3/4	1-1/2	3	60°	**DD5810015**	Price	**DD5820015**	Price	**DD5830015**	Price	**DD5840015**	Price
3/4	3/4	1-1/2	3	82°	**DD5810016**	Price	**DD5820016**	Price	**DD5830016**	Price	**DD5840016**	Price
3/4	3/4	1-1/2	3	90°	**DD5810017**	Price	**DD5820017**	Price	**DD5830017**	Price	**DD5840017**	Price

Sunstance® Tube End Chamfering Mills

High Speed Steel



- The cutting teeth are so developed as to preclude chatter and provide ample chip room for every operating condition
- Moderate speeds of about 100 RPM for 1" steel tubing to about 200 RPM for 1/2" tubing are recommended for these cutters - it is advisable to start at a slower speed on any given material or size and increase until best results are obtained
- Designed to chamfer both inside and outside of a tube or pipe simultaneously
- Chatterless
- Designed for heavy chamfering
- Liberal adjustment to accommodate different wall thicknesses

Std. Tubing O.D. Size (in.)	Std. Pipe Size (in.)	Wall Thickness (Min.-Max.)	Plug Size	Shank Dia. (in.)	Order No.	Price
3/16	-	.022 - .045	.152	1/4	**BC5434960**	Price
1/4	-	.022 - .065	.228	1/4	**BC5434961**	Price
5/16	-	.022 - .095	.290	1/4	**BC5434962**	Price
3/8	1/8	.022 - .095	.353	3/8	**BC5434963**	Price
7/16	-	.028 - .095	.409	3/8	**BC5434964**	Price
1/2	1/4	.028 - .095	.472	3/8	**BC5434965**	Price
9/16	-	.028 - .120	.534	1/2	**BC5434966**	Price
5/8	3/8	.028 - .120	.597	1/2	**BC5434967**	Price
3/4	1/2	.028 - .120	.722	1/2	**BC5434968**	Price
7/8	-	.022 - .156	.847	1/2	**BC5434969**	Price
1	3/4	.022 - .156	.965	1/2	**BC5434970**	Price

RAPIDKUT® M-42 Cobalt Chamfering End Mills

60°, 82°, and 90°



- Designed to mill chamfers or countersinks

Body Size (in.)	Shank Dia. (in.)	Angle	OAL (in.)	No. of Flutes	Material	Order No.	Price
1/2	1/2	90 x 60	3-3/8	2	M-42 Cobalt	**DR80CCT90605**	Price
1/2	1/2	90 x 82	3-3/16	2	M-42 Cobalt	**DR80CCT90825**	Price
1/2	1/2	90 x 90	3-3/16	2	M-42 Cobalt	**DR80CCT90905**	Price
3/4	3/4	90 x 60	3-3/8	2	M-42 Cobalt	**DR80CCT90607**	Price
3/4	3/4	90 x 82	3-3/16	2	M-42 Cobalt	**DR80CCT90827**	Price
3/4	3/4	90 x 90	3-3/16	2	M-42 Cobalt	**DR80CCT90907**	Price
1	1/2	90°	2-15/16	2	M-42 Cobalt	**DR80CCT9015**	Price
1-1/4	3/4	90°	3-3/8	2	M-42 Cobalt	**DR80CCT901147**	Price

RAPIDKUT® 4 Pc. M-42 Cobalt Chamfering Sets

60°, 82° & 90°



- 8% Cobalt M42 tool steel and solid body combine for rigid tool with an edge that lasts
- Unique geometry allows free cutting and superior finishes
- Includes 1 each 90 x 60°, 90 x 82°, 90 x 90° double end and 90° single end
- Sets supplied in wooden case

Shank Dia. (in.)	Order No.	Price
1/2	**DR80CCTSETS5**	Price
3/4	**DR80CCTSETS7**	Price

Outside Deburring Cutters

High Speed Steel



- Shear-type cutting tooth design eliminates burrs on diameters of tubes and rods
- Shearing action cuts clean and reduces chatter
- One tool can handle various size parts
- May be reground many times
- Carbide available-call for pricing
- **Shank required-sold separately-see ad below**

Angle - 60°								
Max. Cutting Size (in.)	Recess Hole Size (in.)	Mouth Size (in.)	Body Size (in.)	Body Length (in.)	Coolant Hole (in.)	I.D. Thread Size	Order No.	Price
1/8	1/16	5/32	1/2	7/8	-	1/4-28	**BC5425430**	Price
3/16	5/32	7/32	1/2	7/8	-	1/4-28	**BC5425431**	Price
1/4	13/64	19/64	1/2	7/8	-	1/4-28	**BC5425432**	Price
5/16	.242	23/64	1/2	7/8	-	1/4-28	**BC5425433**	Price
3/8	9/32	7/16	5/8	7/8	1/8	1/4-28	**BC5425434**	Price
1/2	.332	9/16	3/4	1	3/16	3/8-24	**BC5425435**	Price
5/8	7/16	11/16	7/8	1	3/16	3/8-24	**BC5425436**	Price
3/4	17/32	53/64	1	1	3/16	3/8-24	**BC5425437**	Price
1	45/64	1-5/64	1-1/4	1-3/8	1/4	1/2-20	**BC5425438**	Price
1-1/4	7/8	1-21/64	1-1/2	1-3/8	1/4	1/2-20	**BC5425439**	Price
1-1/2	1-3/64	1-19/32	1-3/4	1-5/8	1/4	5/8-18	**BC5425440**	Price

Angle - 90°								
Max. Cutting Size (in.)	Recess Hole Size (in.)	Mouth Size (in.)	Body Size (in.)	Body Length (in.)	Coolant Hole (in.)	I.D. Thread Size	Order No.	Price
1/8	5/64	3/16	1/2	7/8	-	1/4-28	**BC5425460**	Price
3/16	7/64	7/32	1/2	7/8	-	1/4-28	**BC5425461**	Price
1/4	9/64	23/64	1/2	7/8	-	1/4-28	**BC5425462**	Price
3/8	3/16	7/16	5/8	7/8	1/8	1/4-28	**BC5425463**	Price
1/2	1/4	9/16	3/4	1	3/16	3/8-24	**BC5425464**	Price
3/4	3/8	13/16	1	1	3/16	3/8-24	**BC5425465**	Price
1	1/2	1-5/64	1-1/4	1-3/8	1/4	1/2-20	**BC5425466**	Price
1-1/2	3/4	1-19/32	1-3/4	1-1/2	1/4	5/8-18	**BC5425467**	Price
2	15/16	2-7/64	2-3/8	1-3/4	5/16	3/4-16	**BC5425468**	Price

Tools furnished without shanks - order shanks separately

Straight Shank Threaded Arbors

- For use with outside deburring cutters and chamfering mills



Thread Size	Shank Size (in.)	Thread Length (in.)	Shank Length (in.)	Shoulder Size (in.)	Order No.	Price
1/4-28	1/4	1/4	1-3/4	3/8	**BC5434060**	Price
1/4-28	3/8	1/4	1-3/4	3/8	**BC5434061**	Price
1/4-28	1/2	1/4	1-3/4	1/2	**BC5434062**	Price
5/16-24	1/4	5/16	1-3/4	7/16	**BC5434063**	Price
5/16-24	3/8	5/16	1-3/4	7/16	**BC5434064**	Price
5/16-24	1/2	5/16	1-3/4	1/2	**BC5434065**	Price
3/8-24	1/4	3/8	1-3/4	1/2	**BC5434066**	Price
3/8-24	3/8	3/8	1-3/4	1/2	**BC5434067**	Price
3/8-24	1/2	3/8	1-3/4	1/2	**BC5434068**	Price
3/8-24	5/8	3/8	1-3/4	5/8	**BC5434069**	Price
1/2-20	3/8	1/2	1-3/4	5/8	**BC5434070**	Price
1/2-20	1/2	1/2	1-3/4	5/8	**BC5434071**	Price
1/2-20	5/8	1/2	1-3/4	5/8	**BC5434072**	Price
1/2-20	3/4	1/2	1-3/4	3/4	**BC5434073**	Price
1/2-20	1	1/2	2	1	**BC5434074**	Price
5/8-18	3/8	5/8	1-3/4	3/4	**BC5434075**	Price
5/8-18	1/2	5/8	1-3/4	3/4	**BC5434076**	Price
5/8-18	5/8	5/8	1-3/4	3/4	**BC5434077**	Price
5/8-18	3/4	5/8	1-3/4	7/8	**BC5434078**	Price
5/8-18	1	5/8	2	1	**BC5434079**	Price
3/4-16	1/2	5/8	1-3/4	7/8	**BC5434080**	Price
3/4-16	5/8	5/8	1-3/4	7/8	**BC5434081**	Price
3/4-16	3/4	5/8	1-3/4	7/8	**BC5434082**	Price
3/4-16	1	5/8	2	1	**BC5434083**	Price
1-14	1	3/4	2	1-3/16	**BC5434084**	Price
1-1/4-12	1	3/4	2	1-1/2	**BC5434085**	Price

Outside Chamfering Mills

High Speed Steel



- Designed to economically chamfer a large variety of diameters on tubing, pipe, and rod
- Chatterless teeth produce heavy chamfers
- One size will accommodate many size parts
- Available in 60° and 90° angles
- May be reground many times
- Shank required-sold separately-see ad below
- These outside chamfering mills are most efficient when used in screw machines, lathes, drill presses, or other chucking machines, or with work holding devices, although where requirements are not too exacting, may be used in a portable power tool on some materials

Angle - 60°							
Max. Cutting Size (in.)	Recess Hole Size (in.)	Mouth Size (in.)	Body Size (in.)	Body Length (in.)	ID Thread Size	Order No.	Price
1/8	1/32	3/16	1/2	1	5/16-24	**BC5425230**	Price
1/4	3/64	5/16	1/2	1	5/16-24	**BC5425231**	Price
1/2	1/8	5/8	7/8	1-5/16	3/8-24	**BC5425232**	Price
3/4	1/4	7/8	1-1/8	1-3/4	1/2-20	**BC5425233**	Price
1	1/4	1-1/8	1-1/2	2	3/4-16	**BC5425234**	Price
1-3/4	1/2	1-7/8	2-1/4	2-15/16	1-14	**BC5425235**	Price
2	7/8	2-1/8	2-1/2	3	1-14	**BC5425236**	Price
3	1	3-1/4	3-3/4	3-3/4	1-1/4-12	**BC5425237**	Price

Angle - 90°							
Max. Cutting Size (in.)	Recess Hole Size (in.)	Mouth Size (in.)	Body Size (in.)	Body Length (in.)	ID Thread Size	Order No.	Price
1/8	1/32	3/16	1/2	1	5/16-24	**BC5425250**	Price
1/4	3/64	5/16	1/2	1	5/16-24	**BC5425251**	Price
1/2	1/8	5/8	7/8	1-5/16	3/8-24	**BC5425252**	Price
3/4	3/16	7/8	1-1/8	1-5/16	1/2-20	**BC5425253**	Price
1	1/4	1-1/8	1-1/2	1-3/4	3/4-16	**BC5425254**	Price
1-1/2	3/8	1-5/8	2	1-7/8	3/4-16	**BC5425255**	Price
2	7/8	2-1/8	2-1/2	2-1/2	1-14	**BC5425256**	Price
3	1	3-1/4	3-3/4	2-7/8	1-1/4-12	**BC5425257**	Price

Tools furnished without shanks — order shanks separately.

Tube End Deburring Cutters

High Speed Steel



- Economical method of light deburring both inside and outside of tubing simultaneously
- Shear cutting teeth designed to avoid loading
- Adjustable
- Chamfer 30° inside and 45° outside
- Great for production deburring
- Operating speeds range from 50-200 RPM
- May be reground many times
- Two piece inside and outside cutting design consisting of plug and adjustable ring

Tubing OD Size (in.)	Tubing ID Size (in.)	Hole Size of Ring	Shank Size (in.)	Order No.	Price
1/8	1/16	.093	1/4	**BC5435060**	Price
3/16	1/8	.156	1/4	**BC5435061**	Price
1/4	3/16	.218	1/4	**BC5435062**	Price
5/16	1/4	.281	5/16	**BC5435063**	Price
3/8	5/16	.343	3/8	**BC5435064**	Price
7/16	3/8	.406	7/16	**BC5435065**	Price
1/2	7/16	.468	1/2	**BC5435066**	Price
9/16	1/2	.531	1/2	**BC5435067**	Price
5/8	9/16	.595	1/2	**BC5435068**	Price
3/4	5/8	.685	1/2	**BC5435069**	Price
7/8	3/4	.805	1/2	**BC5435070**	Price
1	7/8	.930	1/2	**BC5435071**	Price
1-1/8	1	1.063	1/2-20	**BC5435072†**	182.65
1-1/4	1-1/8	1.180	1/2-20	**BC5435073†**	209.20
1-3/8	1-1/4	1.313	1/2-20	**BC5435074†**	226.80
1-1/2	1-3/8	1.430	5/8-18	**BC5435075†**	254.85
1-3/4	1-5/8	1.680	5/8-18	**BC5435076†**	318.85
2	1-3/4	1.930	3/4-16	**BC5435077†**	405.45

†Tool numbers 35072 through 35077 require threaded arbors.

Straight Shank Capscrew Counterbores

High Speed Steel and M35 Cobalt • TiN Coated



- Designed for fast and easy cutting
- 4 Flute, 30˚ right-hand spiral
- The high lubricity of TiN improves chip flow, resists galling and edge build up
- Ideal for a wide range of applications where improved tool life and elevated feeds and speeds are required

					Alvord Polk						Keo		
					High Speed Steel			High Speed Steel (TiN Coated)			M-35 Cobalt		
Screw Size	Pilot Dia.	Cutter Dia.	Flute Length (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	OAL (in.)	Order No.	Price	OAL (in.)	Order No.	Price
#4	.112	.186	11/16	5/32	3-7/8	**BL5403000**	Price	3-7/8	**BL5433000**	Price	3	**AV4255200**	Price
#4	.127	.202	11/16	5/32	3-7/8	**BL5403001**	Price	3-7/8	**BL5433001**	Price	3	**AV4255201**	Price
#4	.143	.218	11/16	5/32	3-7/8	**BL5403002**	Price	3-7/8	**BL5433002**	Price	3	**AV4255202**	Price
#5	.125	.205	11/16	3/16	4-1/8	**BL5403003**	Price	4-1/8	**BL5433003**	Price	3	**AV4255203**	Price
#5	.140	.221	11/16	3/16	4-1/8	**BL5403004**	Price	4-1/8	**BL5433004**	Price	3	**AV4255204**	Price
#5	.156	.237	11/16	3/16	4-1/8	**BL5403005**	Price	4-1/8	**BL5433005**	Price	3	**AV4255205**	Price
#6	.138	.228	7/8	7/32	4-5/8	**BL5403006**	Price	4-5/8	**BL5433006**	Price	3	**AV4255206**	Price
#6	.153	.244	7/8	7/32	4-5/8	**BL5403007**	Price	4-5/8	**BL5433007**	Price	3	**AV4255207**	Price
#6	.169	.260	7/8	7/32	4-5/8	**BL5403008**	Price	4-5/8	**BL5433008**	Price	3	**AV4255208**	Price
#8	.164	.272	15/16	1/4	5	**BL5403009**	Price	5	**BL5433009**	Price	3	**AV4255209**	Price
#8	.179	.288	15/16	1/4	5	**BL5403010**	Price	5	**BL5433010**	Price	3	**AV4255210**	Price
#8	.195	.304	15/16	1/4	5	**BL5403011**	Price	5	**BL5433011**	Price	3	**AV4255211**	Price
#10	.190	.314	1-1/8	9/32	5-1/4	**BL5403012**	Price	5-1/4	**BL5433012**	Price	4-1/2	**AV4255212**	Price
#10	.205	.330	1-1/8	9/32	5-1/4	**BL5403013**	Price	5-1/4	**BL5433013**	Price	4-1/2	**AV4255213**	Price
#10	.221	.346	1-1/8	9/32	5-1/4	**BL5403014**	Price	5-1/4	**BL5433014**	Price	4-1/2	**AV4255214**	Price
1/4	.250	.382	1-5/16	5/16	5-5/8	**BL5403015**	Price	5-5/8	**BL5433015**	Price	4-1/2	**AV4255215**	Price
1/4	.265	.398	1-5/16	5/16	5-5/8	**BL5403016**	Price	5-5/8	**BL5433016**	Price	4-1/2	**AV4255216**	Price
1/4	.281	.414	1-5/16	5/16	5-5/8	**BL5403017**	Price	5-5/8	**BL5433017**	Price	4-1/2	**AV4255217**	Price
5/16	.312	.475	1-5/16	3/8	6-1/8	**BL5403018**	Price	6-1/8	**BL5433018**	Price	4-1/2	**AV4255218**	Price
5/16	.328	.491	1-5/16	3/8	6-1/8	**BL5403019**	Price	6-1/8	**BL5433019**	Price	4-1/2	**AV4255219**	Price
5/16	.343	.507	1-5/16	3/8	6-1/8	**BL5403020**	Price	6-1/8	**BL5433020**	Price	4-1/2	**AV4255220**	Price
3/8	.375	.572	1-5/8	1/2	6-1/2	**BL5403021**	Price	6-1/2	**BL5433021**	Price	5	**AV4255221**	Price
3/8	.390	.588	1-5/8	1/2	6-1/2	**BL5403022**	Price	6-1/2	**BL5433022**	Price	5	**AV4255222**	Price
3/8	.406	.604	1-5/8	1/2	6-1/2	**BL5403023**	Price	6-1/2	**BL5433023**	Price	5	**AV4255223**	Price
7/16	.437	.663	1-11/16	1/2	7	**BL5403024**	Price	7	**BL5433024**	Price	5	**AV4255224**	Price
7/16	.452	.679	1-11/16	1/2	7	**BL5403025**	Price	7	**BL5433025**	Price	5	**AV4255225**	Price
7/16	.468	.695	1-11/16	1/2	7	**BL5403026**	Price	7	**BL5433026**	Price	5	**AV4255226**	Price
1/2	.500	.757	2	1/2	7-1/2	**BL5403027**	Price	7-1/2	**BL5433027**	Price	6	**AV4255227**	Price
1/2	.515	.773	2	1/2	7-1/2	**BL5403028**	Price	7-1/2	**BL5433028**	Price	6	**AV4255228**	Price
1/2	.531	.789	2	1/2	7-1/2	**BL5403029**	Price	7-1/2	**BL5433029**	Price	6	**AV4255229**	Price
5/8	.625	.945	2	5/8	7-5/8	**BL5403030**	Price	7-5/8	**BL5433030**	Price	6	**AV4255230**	Price
5/8	.640	.961	2	5/8	7-5/8	**BL5403031**	Price	7-5/8	**BL5433031**	Price	6	**AV4255231**	Price
5/8	.656	.977	2	5/8	7-5/8	**BL5403032**	Price	7-5/8	**BL5433032**	Price	6	**AV4255232**	Price
3/4	.750	1.133	2-1/8	3/4	7-3/4	**BL5403033**	Price	7-3/4	**BL5433033**	Price	-	**-**	-
3/4	.765	1.149	2-1/8	3/4	7-3/4	**BL5403034**	Price	7-3/4	**BL5433034**	Price	7	**AV4255233**	Price
3/4	.781	1.165	2-1/8	3/4	7-3/4	**BL5403035**	Price	7-3/4	**BL5433035**	Price	7	**AV4255234**	Price
7/8	.875	1.322	2-1/8	7/8	8-1/8	**BL5403036**	Price	8-1/8	**BL5433036**	Price	-	**-**	-
7/8	.891	1.338	2-1/8	7/8	8-1/8	**BL5403037**	Price	8-1/8	**BL5433037**	Price	7	**AV4255235**	Price
7/8	.906	1.354	2-1/8	7/8	8-1/8	**BL5403038**	Price	8-1/8	**BL5433038**	Price	7	**AV4255236**	Price
1	1.000	1.510	2-1/4	1	8-1/2	**BL5403039**	Price	8-1/2	**BL5433039**	Price	-	**-**	-
1	1.015	1.526	2-1/4	1	8-1/2	**BL5403040**	Price	8-1/2	**BL5433040**	Price	7	**AV4255237**	Price
1	1.031	1.542	2-1/4	1	8-1/2	**BL5403041**	Price	8-1/2	**BL5433041**	Price	7	**AV4255238**	Price

Straight Shank Capscrew Counterbores

High Speed Steel • TiN Coated • Metric



						High Speed Steel		High Speed Steel (TiN Coated)	
Screw Size	Pilot Dia. (mm)	Cutter Dia. (mm)	Flute Length (in.)	OAL (in.)	Shank Dia. (in.)	Order No.	Price	Order No.	Price
3mm	3.5	6.0	7/8	4-1/2	3/16	**BL5403080**	Price	**BL5433080**	Price
4mm	4.5	7.5	15/16	5	1/4	**BL5403081**	Price	**BL5433081**	Price
5mm	5.5	9.0	1-1/8	5-5/8	5/16	**BL5403082**	Price	**BL5433082**	Price
6mm	6.5	10.5	1-5/16	5-5/8	5/16	**BL5403083**	Price	**BL5433083**	Price
8mm	8.5	13.5	1-5/16	6-1/2	1/2	**BL5403084**	Price	**BL5433084**	Price
10mm	10.5	16.5	1-11/16	7	1/2	**BL5403085**	Price	**BL5433085**	Price
12mm	12.5	18.5	1-11/16	7-1/8	1/2	**BL5403086**	Price	**BL5433086**	Price
14mm	14.5	21.5	2	7-1/2	5/8	**BL5403087**	Price	**BL5433087**	Price

PROCUT Straight Shank Capscrew Counterbores



High Speed Steel and M-42 Cobalt • 3 Flute • Fractional

					High Speed Steel		M-42 Cobalt	
Capscrew Size (in.)	Pilot Dia. (in.)	Cutter Dia. (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price
#5	.141	.221	3/16	3	**CD50005**	Price	**CD60005**	Price
#6	.150	.242	7/32	3	**CD50006**	Price	**CD60006**	Price
#8	11/64	19/64	1/4	3	**CD50008**	Price	**CD60008**	Price
#10	13/64	21/64	5/16	3-1/2	**CD50010**	Price	**CD60010**	Price
1/4	9/32	13/32	3/8	5	**CD50016**	Price	**CD60016**	Price
5/16	11/32	1/2	7/16	5	**CD50020**	Price	**CD60020**	Price
3/8	13/32	19/32	1/2	6	**CD50024**	Price	**CD60024**	Price
7/16	15/32	11/16	1/2	7	**CD50028**	Price	**CD60028**	Price
1/2	17/32	25/32	1/2	7-1/2	**CD50032**	Price	**CD60032**	Price
1/2	9/16	13/16	1/2	7-1/2	**CD50033**	Price	**CD60033**	Price
5/8	11/16	1	3/4	7-1/2	**CD50041**	Price	**CD60041**	Price
5/8	21/32	31/32	3/4	7-1/2	**CD50040**	Price	**CD60040**	Price
3/4	13/16	1-3/16	1	8	**CD50048**	Price	**CD60048**	Price
7/8	15/16	1-3/8	1	8	**CD50056**	Price	**CD60056**	Price
1	1-1/16	1-9/16	1	10	**CD50100**	Price	**CD60100**	Price

PROCUT Straight Shank Capscrew Counterbores



High Speed Steel • 3 Flute • Metric

Capscrew Size	Pilot Dia. (mm)	Cutter Dia. (mm)	Shank Dia. (mm)	OAL (mm)	Order No.	Price
M3	3.4	6	5.55	76	**CD52M3**	Price
M4	4.5	8	7.938	89	**CD52M4**	Price
M5	5.5	10	9.525	127	**CD52M5**	Price
M6	6.6	11	11.112	127	**CD52M6**	Price
M8	9	15	12.700	152	**CD52M8**	Price
M10	11	18	12.700	178	**CD52M10**	Price
M12	14	20	12.7	190	**CD52M12**	Price

KEO Straight Shank Capscrew Kounterbores



Metric Sizes • M35 Cobalt

- 3 Flutes
- Before thread, fine, and medium applications

Screw Size	Application	Pilot Dia. (mm)	Cutter Dia. (mm)	Shank Dia. (mm)	OAL (mm)	Order No.	Price
M3	Before Thread	2.5	6	5	71	**AV4256200**	Price
M3	Fine	3.2	6	5	71	**AV4256201**	Price
M3	Medium	3.4	6	5	71	**AV4256202**	Price
M3.5	Before Thread	2.9	6.5	5	71	**AV4256203**	Price
M3.5	Fine	3.7	6.5	5	71	**AV4256204**	Price
M3.5	Medium	3.9	6.5	5	71	**AV4256205**	Price
M4	Before Thread	3.3	8	5	71	**AV4256206**	Price
M4	Fine	4.3	8	5	71	**AV4256207**	Price
M4	Medium	4.5	8	5	71	**AV4256208**	Price
M5	Before Thread	4.2	10	8	80	**AV4256209**	Price
M5	Fine	5.3	10	8	80	**AV4256210**	Price
M5	Medium	5.5	10	8	80	**AV4256211**	Price
M6	Before Thread	5	11	8	80	**AV4256212**	Price
M6	Fine	6.4	11	8	80	**AV4256213**	Price
M6	Medium	6.6	11	8	80	**AV4256214**	Price
M8	Before Thread	6.8	15	12.5	100	**AV4256215**	Price
M8	Fine	8.4	15	12.5	100	**AV4256216**	Price
M8	Medium	9	15	12.5	100	**AV4256217**	Price
M10	Before Thread	8.5	18	12.5	100	**AV4256218**	Price
M10	Fine	10.5	18	12.5	100	**AV4256219**	Price
M10	Medium	11	18	12.5	100	**AV4256220**	Price
M12	Before Thread	10.2	20	12.5	100	**AV4256221**	Price
M12	Fine	13	20	12.5	100	**AV4256222**	Price
M12	Medium	14	20	12.5	100	**AV4256223**	Price

PROCUT Taper Shank Capscrew Counterbores



High Speed Steel • 3 Flute • Metric

Capscrew Size	Pilot Dia. (mm)	Cutter Dia. (mm)	Shank Taper	OAL (mm)	Order No.	Price
M14	15	24	2MT	209	**CD52M14†**	Price
M16	17	26	2MT	228	**CD52M16†**	Price
M20	21	33	2MT	254	**CD52M20†**	Price
M24	25	44	3MT	254	**CD52M24†**	Price

PROCUT Taper Shank Capscrew Counterbores



High Speed Steel • 3 Flute • Fractional

Capscrew Size (in.)	Pilot Dia. (in.)	Cutter Dia. (in.)	Shank Taper	OAL (in.)	Order No.	Price
1/4	9/32	13/32	2MT	5-3/4	**CD51016**	Price
5/16	11/32	1/2	2MT	6	**CD51020**	Price
3/8	13/32	19/32	2MT	6-1/2	**CD51024**	Price
7/16	15/32	11/16	2MT	7	**CD51028**	Price
1/2	17/32	25/32	2MT	7-1/4	**CD51032**	Price
5/8	11/16	1	2MT	7-1/2	**CD51041**	Price
5/8	21/32	31/32	2MT	7-1/2	**CD51040**	Price
3/4	13/16	1-3/16	3MT	9	**CD51048**	Price
7/8	15/16	1-3/8	3MT	9	**CD51056**	Price
1	1-1/16	1-9/16	3MT	10	**CD51100**	Price

PROCUT Capscrew Counterbore Sets



Set Material - Cobalt Flute Type - Spiral		
Includes	Order No.	Price
6, 8, 10, 1/4, 5/16, 3/8, 1/2	**CD60SS1CO**	Price

Set Material - High Speed Steel Flute Type - Spiral		
Includes	Order No.	Price
6, 8, 10, 1/4, 5/16, 3/8, 1/2	**CD50SS1**	Price
1/4, 5/16, 3/8, 1/2, 5/8, 3/4	**CD50SS2**	Price
M3, M4, M5, M6, M8, M10, M12	**CD50MS1**	Price

KEO 6 Pc. Capscrew Kounterbore Sets

Metric • M35 Cobalt

- 3 Flutes
- Before thread, fine and medium applications
- Sizes included are M3, M4, M5, M6, M8 and M10



Application	Order No.	Price
Before Thread	**AV4256224**	Price
Fine	**AV4256225**	Price
Medium	**AV4256226**	Price

Straight Shank Capscrew Counterbore Sets

High Speed Steel • Fractional



ALVORD-POLK TOOL

Brand - Alvord Polk				
No. of Pieces	Set Range	Case Type	Order No.	Price
8	3mm thru 14mm	Wooden Case	**BL5409133**	Price
10	#4 thru 1/2" (1/32" oversize pilots)	Wooden Case	**BL5409130**	Price
10	#4 thru 1/2" (1/64" oversize pilots)	Wooden Case	**BL5409131**	Price
10	#4 thru 1/2" (on size pilots)	Wooden Case	**BL5409132**	Price

KEO

Brand - Keo				
No. of Pieces	Set Range	Case Type	Order No.	Price
7	#6 thru 1/2" (1/32" oversize pilots)	Plastic Case	**AV4255241**	Price
7	#6 thru 1/2" (1/64" oversize pilots)	Plastic Case	**AV4255240**	Price
7	#6 thru 1/2" (close fit)	Plastic Case	**AV4255239**	Price

Irwin Unibit® Step Drill Sets

- Easy-to-sharpen non-skid tip eliminates the need for center punching and gives sure starts even on curved surface
- Single-fluted cutting edge
- Helps assure true round holes and allows greater control
- As many as 13 different hole sizes in a single bit eliminates the need for a toolbox full of drill bits
- Industrial grade high speed steel heat treated to assure maximum durability
- 3 Flatted shank
- Prevents slipping in drill chucks



Set Range	Set Material	Order No.	Price
1, 2, 3 Unibit Cobalt	Cobalt	**KX5010502CB**	Price
1, 2, 3 Unibit HSS	High Speed Steel	**KX50502**	Price

Cobalt Step Drill Bits

- Super alloy
- Heat resistant for high production
- Excellent mechanical strength



Tool No.	No. of Hole Sizes	Hole Sizes	Order No.	Price
ST-376	13	1/8 - 1/2" in 32nds	**ST20ST376**	Price
ST-377	6	3/16 - 3/8 - 1/2	**ST20ST377**	Price
ST-378	9	1/4 - 3/16 in 1/16ths	**ST20ST378**	Price
ST-380	12	3/16 - 7/8	**ST20ST380**	Price
ST-381	3	1/4 - 7/8 - 1-1/8	**ST20ST381**	Price
ST-382	8	1/4 - 9/16 - 1	**ST20ST382**	Price
ST-383	10	1/2 - 1-1/8 - 1-3/8	**ST20ST383**	Price

Unibit® Step Drills

Easy-to-sharpen non-skid tip eliminates the need for center punching and gives sure starts even on curved surface

- Single-fluted cutting edge
- Helps assure true round holes and allows greater control
- As many as 13 different hole sizes in a single bit eliminates the need for a toolbox full of drill bits
- Industrial grade high speed steel heat treated to assure maximum durability
- 3 Flatted shank
- Prevents slipping in drill chucks



- Hole Enlarging						
					High Speed Steel	
No. of Holes	Hole Range	Step Increments	Step Thickness	Shank Size (in.)	Order No.	Price
6	14 - 24mm	2mm	5mm	1/2	**KX5020M**	Price
8	9/16 - 1	16ths	1/8	1/2	**KX5020**	Price
8	20 - 34mm	2mm	5mm	1/2	**KX5021M**	Price
10	13/16 - 1-3/8	16ths	1/8	1/2	**KX5021**	Price

- Self Starting Single Hole						
					High Speed Steel	
No. of Holes	Hole Range	Step Increments	Step Thickness	Shank Size (in.)	Order No.	Price
1	3/8	na	na	1/4	**KX5012**	Price
1	1/2	na	na	1/4	**KX5010**	Price
1	7/8	na	na	3/8	**KX5011**	Price
1	1-1/8	na	na	1/2	**KX5013**	Price
1	1-7/32	na	na	1/2	**KX5014**	Price

- Self Starting Multiple Holes											
					High Speed Steel		Cobalt		TiN		
No. of Holes	Hole Range	Step Increments	Step Thickness	Shank Size (in.)	Order No.	Price	Order No.	Price	Order No.	Price
5	4 - 12mm	2mm	11mm	1/4	**KX502M**	Price	**KX5011102CB**	Price	**-**	-
6	3/16 - 1/2	16ths	3/8	1/4	**KX502**	Price	**KX5010232CB**	Price	**KX502T**	Price
7	6 - 18mm	2mm	5mm	3/8	**KX503M**	Price	**KX5011103CB**	Price	**KX503MT**	Price
9	1/4 - 3/4	16ths	1/8	3/8	**KX503**	Price	**KX5010233CB**	Price	**KX503T**	Price
9	4 - 12mm	1mm	5mm	1/4	**KX501M**	Price	**KX5011101CB**	Price	**KX501MT**	Price
10	1/4 - 1-3/8	8ths	1/8	1/2	**KX505**	Price	**-**	-	**-**	-
10	4 - 22mm	2mm	5mm	3/8	**KX504M**	Price	**KX5011104CB**	Price	**KX504MT**	Price
12	3/16 - 7/8	16ths	1/8	3/8	**KX504**	Price	**KX5010234CB**	Price	**KX504T**	Price
13	1/8 - 1/2	32nds	1/8	1/4	**KX501**	Price	**KX5010231CB**	Price	**KX501T**	Price
13	5 - 35mm	2 - 3mm	3.5mm	1/2	**KX505M**	Price	**-**	-	**-**	-

Interchangeable Pilot Counterbores

Taper Shank




					Price		Rock River Tool	
					High Speed Steel		Carbide Tipped	
Size (in.)	Hole Size (in.)	Shank	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price
1/4	3/32	1MT	3-13/16	3	**CF50016**	Price	**DE61016**	Price
9/32	3/32	1MT	3-13/16	3	**CF50018**	Price	**-**	-
5/16	3/32	1MT	3-13/16	3	**CF50020**	Price	**DE61020**	Price
11/32	3/32	1MT	3-13/16	3	**CF50022**	Price	**-**	-
3/8	5/32	1MT	4-1/16	3	**CF50024**	Price	**DE61024**	Price
13/32	5/32	1MT	4-1/16	3	**CF50026**	Price	**-**	-
7/16	5/32	1MT	4-1/16	3	**CF50028**	Price	**DE61028**	Price
15/32	3/16	1MT	4-5/16	3	**CF50030**	Price	**-**	-
1/2	3/16	1MT	4-5/16	3	**CF50032**	Price	**DE61032**	Price
17/32	3/16	1MT	4-5/16	3	**CF50034**	Price	**-**	-
9/16	3/16	1MT	4-5/16	3	**CF50036**	Price	**DE61036**	Price
19/32	3/16	2MT	5-1/8	3	**CF50038**	Price	**-**	-
5/8	3/16	2MT	5-1/8	3	**CF50040**	Price	**DE61040**	Price
21/32	3/16	2MT	5-1/8	3	**CF50042**	Price	**-**	-
11/16	3/16	2MT	5-1/8	3	**CF50044**	Price	**DE61044**	Price
23/32	1/4	2MT	5-3/8	3	**CF50046**	Price	**-**	-
3/4	1/4	2MT	5-3/8	3	**CF50048**	Price	**DE61048**	Price
25/32	1/4	2MT	5-3/8	3	**CF50050**	Price	**-**	-
13/16	1/4	2MT	5-3/8	3	**CF50052**	Price	**DE61052**	Price
27/32	1/4	2MT	5-3/8	3	**CF50054**	Price	**-**	-
7/8	1/4	2MT	5-3/8	3	**CF50056**	Price	**DE61056**	Price
15/16	1/4	3MT	6-1/8	3	**CF50060**	Price	**DE61060**	Price
1	5/16	3MT	6-3/8	3	**CF50100**	Price	**DE61100**	Price
1-1/16	5/16	3MT	6-3/8	3	**CF50104**	Price	**DE61104**	Price
1-1/8	5/16	3MT	6-3/8	3	**CF50108**	Price	**DE61108**	Price
1-3/16	5/16	3MT	6-3/8	3	**CF50112**	Price	**DE61112**	Price
1-1/4	3/8	3MT	6-5/8	4	**-**	-	**DE61116**	Price
1-1/4	3/8	3MT	6-5/8	5	**CF50116**	Price	**-**	-
1-5/16	3/8	3MT	6-5/8	4	**-**	-	**DE61120**	Price
1-5/16	3/8	3MT	6-5/8	5	**CF50120**	Price	**-**	-
1-3/8	3/8	3MT	6-5/8	4	**-**	-	**DE61124**	Price
1-3/8	3/8	3MT	6-5/8	5	**CF50124**	Price	**-**	-
1-7/16	3/8	4MT	7-7/8	4	**-**	-	**DE61128**	Price
1-7/16	3/8	4MT	7-7/8	5	**CF50128**	Price	**-**	-
1-1/2	3/8	4MT	7-7/8	4	**-**	-	**DE61132**	Price
1-1/2	3/8	4MT	7-7/8	5	**CF50132**	Price	**-**	-
1-9/16	7/16	4MT	8-1/8	4	**-**	-	**DE61136**	Price
1-9/16	7/16	4MT	8-1/8	5	**CF50136**	Price	**-**	-
1-5/8	7/16	4MT	8-1/8	4	**-**	-	**DE61140**	Price
1-5/8	7/16	4MT	8-1/8	5	**CF50140**	Price	**-**	-
1-11/16	7/16	4MT	8-1/8	5	**CF50144**	Price	**-**	-
1-3/4	7/16	4MT	8-1/8	5	**CF50148**	Price	**-**	-
1-13/16	7/16	4MT	8-1/8	5	**CF50152**	Price	**-**	-
1-7/8	7/16	4MT	8-1/8	5	**CF50156**	Price	**-**	-
1-15/16	7/16	4MT	8-1/8	5	**CF50160**	Price	**-**	-
2	1/2	4MT	8-3/8	5	**CF50200**	Price	**-**	-
2-1/8	1/2	5MT	9-7/8	5	**CF50208**	Price	**-**	-
2-1/4	1/2	5MT	9-7/8	5	**CF50216**	Price	**-**	-
2-3/8	1/2	5MT	9-7/8	5	**CF50224**	Price	**-**	-
2-1/2	1/2	5MT	9-7/8	5	**CF50232**	Price	**-**	-
2-5/8	1/2	5MT	9-7/8	5	**CF50240**	Price	**-**	-
2-3/4	1/2	5MT	9-7/8	5	**CF50248**	Price	**-**	-
2-7/8	1/2	5MT	9-7/8	5	**CF50256**	Price	**-**	-
3	1/2	5MT	9-7/8	5	**CF50300**	Price	**-**	-

Interchangeable Pilot Counterbore Sets

With Pilots in Case — High Speed Steel

- 13 Counterbores: 1/4 to 1" by 16ths
- 26 Pilots:
  1/8, 5/32, 3/16, 1/4 with 3/32" shank
  3/16, 7/32, 1/4, 9/32, 5/16 with 5/32" shank
  1/4, 5/16, 3/8, 7/16, 1/2 with 3/16" shank
  5/16, 3/8, 7/16, 1/2, 9/16, 5/8 with 1/4" shank
  3/8, 7/16, 1/2, 9/16, 5/8, 3/4 with 5/16" shank



Shank Style	Order No.	Price
Straight Shank	**CG50K84**	Price
Taper Shank	**CG50K83**	Price

Interchangeable Pilot Counterbores

Straight Shank




					Price		Rock River Tool	
					High Speed Steel		Carbide Tipped	
Size (in.)	Hole Size (in.)	Straight Shank Dia. (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price
1/4	3/32	15/64	3-13/16	3	**CF51016**	Price	**DE60016**	Price
9/32	3/32	17/64	3-13/16	3	**CF51018**	Price	**-**	-
5/16	3/32	19/64	3-13/16	3	**CF51020**	Price	**DE60020**	Price
11/32	3/32	5/16	3-13/16	3	**CF51022**	Price	**-**	-
3/8	5/32	5/16	4-1/16	3	**CF51024**	Price	**DE60024**	Price
13/32	5/32	3/8	4-1/16	3	**CF51026**	Price	**-**	-
7/16	5/32	3/8	4-1/16	3	**CF51028**	Price	**DE60028**	Price
15/32	3/16	7/16	4-5/16	3	**CF51030**	Price	**-**	-
1/2	3/16	7/16	4-5/16	3	**CF51032**	Price	**DE60032**	Price
17/32	3/16	1/2	4-5/16	3	**CF51034**	Price	**-**	-
9/16	3/16	1/2	4-5/16	3	**CF51036**	Price	**DE60036**	Price
19/32	3/16	1/2	5-1/8	3	**CF51038**	Price	**-**	-
5/8	3/16	1/2	5-1/8	3	**CF51040**	Price	**DE60040**	Price
21/32	3/16	1/2	5-1/8	3	**CF51042**	Price	**-**	-
11/16	3/16	1/2	5-1/8	3	**CF51044**	Price	**DE60044**	Price
23/32	1/4	1/2	5-3/8	3	**CF51046**	Price	**-**	-
3/4	1/4	1/2	5-3/8	3	**CF51048**	Price	**DE60048**	Price
25/32	1/4	5/8	5-3/8	3	**CF51050**	Price	**-**	-
13/16	1/4	5/8	5-3/8	3	**CF51052**	Price	**DE60052**	Price
27/32	1/4	3/4	5-3/8	3	**CF51054**	Price	**-**	-
7/8	1/4	3/4	5-3/8	3	**CF51056**	Price	**DE60056**	Price
15/16	1/4	3/4	6-1/8	3	**CF51060**	Price	**DE60060**	Price
1	5/16	3/4	6-3/8	3	**CF51100**	Price	**DE60100**	Price
1-1/16	5/16	3/4	6-3/8	3	**CF51104**	Price	**DE60104**	Price
1-1/8	5/16	1	6-3/8	3	**CF51108**	Price	**DE60108**	Price
1-3/16	5/16	1	6-3/8	3	**CF51112**	Price	**DE60112**	Price
1-1/4	3/8	1	6-5/8	4	**-**	-	**DE60116**	Price
1-1/4	3/8	1	6-5/8	5	**CF51116**	Price	**-**	-
1-5/16	3/8	1	6-5/8	4	**-**	-	**DE60120**	Price
1-5/16	3/8	1	6-5/8	5	**CF51120**	Price	**-**	-
1-3/8	3/8	1	6-5/8	4	**-**	-	**DE60124**	Price
1-3/8	3/8	1	6-5/8	5	**CF51124**	Price	**-**	-
1-7/16	3/8	1-1/4	7-7/8	4	**-**	-	**DE60128**	Price
1-7/16	3/8	1-1/4	7-7/8	5	**CF51128**	Price	**-**	-
1-1/2	3/8	1-1/4	7-7/8	4	**-**	-	**DE60132**	Price
1-1/2	3/8	1-1/4	7-7/8	5	**CF51132**	Price	**-**	-
1-9/16	7/16	1-1/4	8-1/8	4	**-**	-	**DE60136**	Price
1-9/16	7/16	1-1/4	8-1/8	5	**CF51136**	Price	**-**	-
1-5/8	7/16	1-1/4	8-1/8	4	**-**	-	**DE60140**	Price
1-5/8	7/16	1-1/4	8-1/8	5	**CF51140**	Price	**-**	-
1-11/16	7/16	1-1/4	8-1/8	5	**CF51144**	Price	**-**	-
1-3/4	7/16	1-1/4	8-1/8	5	**CF51148**	Price	**-**	-
1-13/16	7/16	1-1/2	8-1/8	5	**CF51152**	Price	**-**	-
1-7/8	7/16	1-1/2	8-1/8	5	**CF51156**	Price	**-**	-
1-15/16	7/16	1-1/2	8-1/8	5	**CF51160**	Price	**-**	-
2	1/2	1-1/2	8-3/8	5	**CF51200**	Price	**-**	-

Long Type Interchangeable Pilot Aircraft Counterbores

- Straight shank
- High speed steel



Size (in.)	Pilot Hole (in.)	Flute Length (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price
7/32	3/32	3/4	13/64	4	**CH55014**	Price
1/4	3/32	3/4	15/64	4	**CH55016**	Price
11/32	3/32	3/4	5/16	4	**CH55022**	Price
15/32	1/8	1-1/4	7/16	4-1/4	**CH55030**	Price
19/32	1/8	1-1/8	1/2	5-1/4	**CH55038**	Price
27/32	3/16	1-3/4	1/2	5-1/4	**CH55054**	Price
15/16	3/16	1-3/4	1/2	5-1/4	**CH55060**	Price
31/32	3/16	1-3/4	1/2	5-1/4	**CH55062**	Price

PROFIT Interchangeable Pilot Aircraft Counterbores

Square Corner
High Speed Steel

- With set screw to hold pilots



Size (in.)	Shank Length (in.)	Hole Size (in.)	OAL (in.)	Order No.	Price
1/4	1-1/8	3/32	2-3/8	**CH50016**	Price
9/32	7/8	3/32	2-3/8	**CH50018**	Price
5/16	7/8	3/32	2-3/8	**CH50020**	Price
11/32	7/8	3/32	2-3/8	**CH50022**	Price
3/8	7/8	3/32	2-3/8	**CH50024**	Price
13/32	7/8	1/8	2-13/16	**CH50026**	Price
7/16	7/8	1/8	2-13/16	**CH50028**	Price
15/32	7/8	1/8	2-13/16	**CH50030**	Price
1/2	7/8	1/8	2-13/16	**CH50032**	Price
17/32	7/8	1/8	2-13/16	**CH50034**	Price
9/16	7/8	1/8	2-13/16	**CH50036**	Price
19/32	7/8	1/8	2-13/16	**CH50038**	Price
5/8	7/8	1/8	2-13/16	**CH50040**	Price

Size (in.)	Shank Length (in.)	Hole Size (in.)	OAL (in.)	Order No.	Price
21/32	7/8	3/16	3-1/8	**CH50042**	Price
11/16	7/8	3/16	3-1/8	**CH50044**	Price
23/32	7/8	3/16	3-1/8	**CH50046**	Price
3/4	7/8	3/16	3-1/8	**CH50048**	Price
25/32	7/8	3/16	3-1/8	**CH50050**	Price
13/16	7/8	3/16	3-1/8	**CH50052**	Price
27/32	7/8	3/16	3-1/8	**CH50054**	Price
7/8	7/8	3/16	3-1/8	**CH50056**	Price
29/32	7/8	3/16	3-1/8	**CH50058**	Price
15/16	7/8	3/16	3-1/8	**CH50060**	Price
31/32	7/8	3/16	3-1/8	**CH50062**	Price
1	7/8	3/16	3-1/8	**CH50100**	Price

Pilots for Interchangeable Pilot Counterbores



Pilot Size (in.)	Shank Dia. (in.)	Order No.	Price
1/8	3/32	**CF55012503**	Price
5/32	3/32	**CF55015603**	Price
3/16	3/32	**CF55018703**	Price
7/32	3/32	**CF55021803**	Price
1/4	3/32	**CF55025003**	Price
1/8	1/8	**CF55012504**	Price
5/32	1/8	**CF55015604**	Price
3/16	1/8	**CF55018704**	Price
7/32	1/8	**CF55021804**	Price
1/4	1/8	**CF55025004**	Price
9/32	1/8	**CF55028104**	Price
5/16	1/8	**CF55031204**	Price
11/32	1/8	**CF55034304**	Price
3/8	1/8	**CF55037504**	Price
7/16	1/8	**CF55043704**	Price
1/2	1/8	**CF55050004**	Price
5/32	5/32	**CF55015605**	Price
3/16	5/32	**CF55018705**	Price
7/32	5/32	**CF55021805**	Price
1/4	5/32	**CF55025005**	Price
9/32	5/32	**CF55028105**	Price
5/16	5/32	**CF55031205**	Price
11/32	5/32	**CF55034305**	Price
3/16	3/16	**CF55018706**	Price
7/32	3/16	**CF55021806**	Price
1/4	3/16	**CF55025006**	Price
9/32	3/16	**CF55028106**	Price
5/16	3/16	**CF55031206**	Price
11/32	3/16	**CF55034306**	Price
3/8	3/16	**CF55037506**	Price
13/32	3/16	**CF55040606**	Price
7/16	3/16	**CF55043706**	Price
15/32	3/16	**CF55046806**	Price
1/2	3/16	**CF55050006**	Price
17/32	3/16	**CF55053106**	Price
9/16	3/16	**CF55056206**	Price
19/32	3/16	**CF55059306**	Price
5/8	3/16	**CF55062506**	Price
11/16	3/16	**CF55068706**	Price
1/4	1/4	**CF55025008**	Price
9/32	1/4	**CF55028108**	Price
5/16	1/4	**CF55031208**	Price

Pilot Size (in.)	Shank Dia. (in.)	Order No.	Price
11/32	1/4	**CF55034308**	Price
3/8	1/4	**CF55037508**	Price
13/32	1/4	**CF55040608**	Price
7/16	1/4	**CF55043708**	Price
15/32	1/4	**CF55046808**	Price
1/2	1/4	**CF55050008**	Price
17/32	1/4	**CF55053108**	Price
9/16	1/4	**CF55056208**	Price
19/32	1/4	**CF55059308**	Price
5/8	1/4	**CF55062508**	Price
11/16	1/4	**CF55068708**	Price
3/4	1/4	**CF55075008**	Price
25/32	1/4	**CF55078108**	Price
13/16	1/4	**CF55081208**	Price
27/32	1/4	**CF55084308**	Price
29/32	1/4	**CF55090608**	Price
15/16	1/4	**CF55093708**	Price
5/16	5/16	**CF55031210**	Price
11/32	5/16	**CF55034310**	Price
3/8	5/16	**CF55037510**	Price
13/32	5/16	**CF55040610**	Price
7/16	5/16	**CF55043710**	Price
15/32	5/16	**CF55046810**	Price
1/2	5/16	**CF55050010**	Price
17/32	5/16	**CF55053110**	Price
9/16	5/16	**CF55056210**	Price
19/32	5/16	**CF55059310**	Price
21/32	5/16	**CF55065610**	Price
11/16	5/16	**CF55068710**	Price
5/8	5/16	**CF55062510**	Price
23/32	5/16	**CF55071810**	Price
3/4	5/16	**CF55075010**	Price
25/32	5/16	**CF55078110**	Price
13/16	5/16	**CF55081210**	Price
27/32	5/16	**CF55084310**	Price
15/16	5/16	**CF55093710**	Price
1	5/16	**CF55100010**	Price
1-1/8	5/16	**CF55112510**	Price
1-5/32	5/16	**CF55115610**	Price
3/8	3/8	**CF55037512**	Price
7/16	3/8	**CF55043712**	Price
15/32	3/8	**CF55046812**	Price

Pilot Size (in.)	Shank Dia. (in.)	Order No.	Price
1/2	3/8	**CF55050012**	Price
17/32	3/8	**CF55053112**	Price
9/16	3/8	**CF55056212**	Price
5/8	3/8	**CF55062512**	Price
21/32	3/8	**CF55065612**	Price
11/16	3/8	**CF55068712**	Price
3/4	3/8	**CF55075012**	Price
25/32	3/8	**CF55078112**	Price
13/16	3/8	**CF55081212**	Price
27/32	3/8	**CF55084312**	Price
7/8	3/8	**CF55087512**	Price
29/32	3/8	**CF55090612**	Price
15/16	3/8	**CF55093712**	Price
1	3/8	**CF55100012**	Price
1-1/32	3/8	**CF55103112**	Price
1-1/16	3/8	**CF55106212**	Price
1-3/16	3/8	**CF55118712**	Price
1-7/16	3/8	**CF55143712**	Price
7/16	7/16	**CF55043714**	Price
1/2	7/16	**CF55050014**	Price
17/32	7/16	**CF55053114**	Price
9/16	7/16	**CF55056214**	Price
19/32	7/16	**CF55059314**	Price
5/8	7/16	**CF55062514**	Price
11/16	7/16	**CF55068714**	Price
25/32	7/16	**CF55078114**	Price
13/16	7/16	**CF55081214**	Price
27/32	7/16	**CF55084314**	Price
15/16	7/16	**CF55093714**	Price
1	7/16	**CF55100014**	Price
1-1/16	7/16	**CF55106214**	Price
1-1/4	7/16	**CF55125014**	Price
1-3/8	7/16	**CF55137514**	Price
1-1/2	7/16	**CF55150014**	Price
5/8	1/2	**CF55062516**	Price
3/4	1/2	**CF55075016**	Price
13/16	1/2	**CF55081216**	Price
1	1/2	**CF55100016**	Price
1-1/16	1/2	**CF55106216**	Price
1-3/16	1/2	**CF55118716**	Price

Straight Shank Straight Flute Chucking Reamers

High Speed Steel



- Diameter Tolerances:
  thru 1/2" diameter +.0002 -.0000
  above 1/2" to 5/8" +.0003 -.0000
  above 5/8" to 1-1/2" +.0001 +.0004
- Morse List #1655

HSS MORSE M GP RAPIDKUT PROCUT

Type - Fractional Size										
					Morse Cutting Tools		Rapidkut		ProCut	
Size	Dec. Equiv.	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
3/64	.0469	1/2	2-1/2	4	**MT5022106**	Price	**BL5400018**	Price	**BD50003**	Price
1/16	.0625	1/2	2-1/2	4	**MT5022110**	Price	**BL5400023**	Price	**BD50004**	Price
5/64	.0781	3/4	3	4	**MT5022116**	Price	**BL5400029**	Price	**BD50005**	Price
3/32	.0938	3/4	3	4	**MT5022123**	Price	**BL5400037**	Price	**BD50006**	Price
7/64	.1094	7/8	3-1/2	4	**MT5022130**	Price	**BL5400045**	Price	**BD50007**	Price
1/8	.1250	7/8	3-1/2	4	**MT5022137**	Price	**BL5400055**	Price	**BD50008**	Price
9/64	.1406	1	4	4	**MT5022142**	Price	**BL5400061**	Price	**BD50009**	Price
5/32	.1562	1	4	6	**MT5022148**	Price	**BL5400067**	Price	**BD50010**	Price
11/64	.1719	1-1/8	4-1/2	6	**MT5022154**	Price	**BL5400074**	Price	**BD50011**	Price
3/16	.1875	1-1/8	4-1/2	6	**MT5022161**	Price	**BL5400084**	Price	**BD50012**	Price
13/64	.2031	1-1/4	5	6	**MT5022169**	Price	**BL5400093**	Price	**BD50013**	Price
7/32	.2188	1-1/4	5	6	**MT5022174**	Price	**BL5400099**	Price	**BD50014**	Price
15/64	.2344	1-1/2	6	6	**MT5022178**	Price	**BL5400103**	Price	**BD50015**	Price
1/4	.2500	1-1/2	6	6	**MT5022183**	Price	**BL5400111**	Price	**BD50016**	Price
17/64	.2656	1-1/2	6	6	**MT5022188**	Price	**BL5400116**	Price	**BD50017**	Price
9/32	.2812	1-1/2	6	6	**MT5022193**	Price	**BL5400122**	Price	**BD50018**	Price
19/64	.2969	1-1/2	6	6	**MT5022196**	Price	**BL5400126**	Price	**BD50019**	Price
5/16	.3125	1-1/2	6	6	**MT5022199**	Price	**BL5400131**	Price	**BD50020**	Price
21/64	.3281	1-1/2	6	6	**MT5022203**	Price	**BL5400136**	Price	**BD50021**	Price
11/32	.3438	1-1/2	6	6	**MT5022206**	Price	**BL5400140**	Price	**BD50022**	Price
23/64	.3594	1-3/4	7	6	**MT5022209**	Price	**BL5400144**	Price	**BD50023**	Price
3/8	.3750	1-3/4	7	6	**MT5022212**	Price	**BL5400150**	Price	**BD50024**	Price
25/64	.3906	1-3/4	7	6	**MT5022216**	Price	**BL5400154**	Price	**BD50025**	Price
13/32	.4062	1-3/4	7	6	**MT5022219**	Price	**BL5400158**	Price	**BD50026**	Price
27/64	.4219	1-3/4	7	6	**MT5022221**	Price	**BL5400161**	Price	**BD50027**	Price
7/16	.4375	1-3/4	7	6	**MT5022223**	Price	**BL5400166**	Price	**BD50028**	Price
29/64	.4531	1-3/4	7	6	**MT5022225**	Price	**BL5400169**	Price	**BD50029**	Price
15/32	.4687	1-3/4	7	6	**MT5022226**	Price	**BL5400170**	Price	**BD50030**	Price
31/64	.4844	2	8	6	**MT5022227**	Price	**BL5400172**	Price	**BD50031**	Price
1/2	.5000	2	8	6	**MT5022229**	Price	**BL5400177**	Price	**BD50032**	Price
17/32	.5312	2	8	6-8	**MT5022231**	Price	**BL5400180**	Price	**BD50034**	Price
9/16	.5625	2	8	8	**MT5022232**	Price	**BL5400183**	Price	**BD50036**	Price
19/32	.5938	2	8	6-8	**MT5022233**	Price	**BL5400186**	Price	**BD50038**	Price
5/8	.6250	2-1/4	9	8	**MT5022234**	Price	**BL5400188**	Price	**BD50040**	Price
21/32	.6562	2-1/4	9	6-8	**MT5022235**	Price	**BL5400191**	Price	**BD50042**	Price
11/16	.6875	2-1/4	9	8	**MT5022236**	Price	**BL5400193**	Price	**BD50044**	Price
23/32	.7188	2-1/4	9	6-8	**MT5022237**	Price	**BL5400196**	Price	**BD50046**	Price
3/4	.7500	2-1/2	9-1/2	8	**MT5022238**	Price	**BL5400199**	Price	**BD50048**	Price
25/32	.7812	2-1/2	9-1/2	8	**MT5022239**	Price	**BL5400201**	Price	**BD50050**	Price
13/16	.8125	2-1/2	9-1/2	8	**MT5022240**	Price	**BL5400204**	Price	**BD50052**	Price
27/32	.8438	2-1/2	9-1/2	8	**MT5022241**	Price	**BL5400206**	Price	**BD50054**	Price
7/8	.8750	2-5/8	10	8	**MT5022242**	Price	**BL5400209**	Price	**BD50056**	Price
29/32	.9062	2-5/8	10	8	**MT5022243**	Price	**BL5400212**	Price	**BD50058**	Price
15/16	.9375	2-5/8	10	8	**MT5022244**	Price	**BL5400214**	Price	**BD50060**	Price
31/32	.9688	2-5/8	10	8-10	**MT5022245**	Price	**BL5400217**	Price	**BD50062**	Price
1	1.0000	2-3/4	10-1/2	8	**MT5022246**	Price	**BL5400219**	Price	**BD50064**	Price
1-1/16	1.0625	2-3/4	10-1/2	8-10	**MT5022247**	Price	**BL5400220**	Price	**BD50068**	Price
1-1/8	1.1250	2-7/8	11	8-10	**MT5022248**	Price	**BL5400221**	Price	**BD50072**	Price
1-3/16	1.1875	2-7/8	11	8-12	**MT5022249**	Price	**BL5400222**	Price	**BD50076**	Price
1-1/4	1.2500	3	11-1/2	8-12	**MT5022250**	Price	**BL5400223**	Price	**BD50080**	Price
1-5/16	1.3125	3	11-1/2	8-12	**-**	-	**BL5400224**	Price	**BD50084**	Price
1-3/8	1.3750	3-1/4	12	8-12	**MT5022251**	Price	**BL5400225**	Price	**BD50088**	Price
1-7/16	1.4375	3-1/4	12-1/2	8-12	**-**	-	**BL5400226**	Price	**BD50092**	Price
1-1/2	1.5000	3-1/2	12-1/2	8-12	**MT5022252**	Price	**BL5400227**	Price	**BD50096**	Price

Type - Letter Size										
					Morse Cutting Tools		Rapidkut		ProCut	
Size	Dec. Equiv.	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
A	.2340	1-1/2	6	6	**MT5022177**	Price	**BL5400102**	Price	**BD50201**	Price
B	.2380	1-1/2	6	6	**MT5022179**	Price	**BL5400105**	Price	**BD50202**	Price
C	.2420	1-1/2	6	6	**MT5022180**	Price	**BL5400106**	Price	**BD50203**	Price
D	.2460	1-1/2	6	6	**MT5022181**	Price	**BL5400107**	Price	**BD50204**	Price
1/4	.2500	1-1/2	6	6	**MT5022183**	Price	**BL5400111**	Price	**BD50016**	Price
F	.2570	1-1/2	6	6	**MT5022186**	Price	**BL5400114**	Price	**BD50206**	Price
G	.2610	1-1/2	6	6	**MT5022187**	Price	**BL5400115**	Price	**BD50207**	Price
H	.2660	1-1/2	6	6	**MT5022189**	Price	**BL5400117**	Price	**BD50208**	Price
I	.2720	1-1/2	6	6	**MT5022190**	Price	**BL5400118**	Price	**BD50209**	Price
J	.2770	1-1/2	6	6	**MT5022191**	Price	**BL5400120**	Price	**BD50210**	Price
K	.2810	1-1/2	6	6	**MT5022192**	Price	**BL5400121**	Price	**BD50211**	Price
L	.2900	1-1/2	6	6	**MT5022194**	Price	**BL5400123**	Price	**BD50212**	Price
M	.2950	1-1/2	6	6	**MT5022195**	Price	**BL5400124**	Price	**BD50213**	Price
N	.3020	1-1/2	6	6	**MT5022197**	Price	**BL5400127**	Price	**BD50214**	Price
O	.3160	1-1/2	6	6	**MT5022201**	Price	**BL5400134**	Price	**BD50215**	Price
P	.3230	1-1/2	6	6	**MT5022202**	Price	**BL5400135**	Price	**BD50216**	Price

(continued on next page)

Straight Shank Straight Flute Chucking Reamers *(continued from previous page)*

Type - Letter Size										
					Morse Cutting Tools		Rapidkut		ProCut	
Size	Dec. Equiv.	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
Q	.3320	1-1/2	6	6	**MT5022204**	Price	**BL5400137**	Price	**BD50217**	Price
R	.3390	1-1/2	6	6	**MT5022205**	Price	**BL5400139**	Price	**BD50218**	Price
S	.3480	1-3/4	7	6	**MT5022207**	Price	**BL5400141**	Price	**BD50219**	Price
T	.3580	1-3/4	7	6	**MT5022208**	Price	**BL5400143**	Price	**BD50220**	Price
U	.3680	1-3/4	7	6	**MT5022210**	Price	**BL5400145**	Price	**BD50221**	Price
V	.3770	1-3/4	7	6	**MT5022214**	Price	**BL5400152**	Price	**BD50222**	Price
W	.3860	1-3/4	7	6	**MT5022215**	Price	**BL5400153**	Price	**BD50223**	Price
X	.3970	1-3/4	7	6	**MT5022217**	Price	**BL5400156**	Price	**BD50224**	Price
Y	.4040	1-3/4	7	6	**MT5022218**	Price	**BL5400157**	Price	**BD50225**	Price
Z	.4130	1-3/4	7	6	**MT5022220**	Price	**BL5400159**	Price	**BD50226**	Price

Price										
					Morse Cutting Tools		Rapidkut		ProCut	
Size	Dec. Equiv.	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1	.2280	1-1/2	6	6	**MT5022176**	Price	**BL5400101**	Price	**BD50101**	Price
2	.2210	1-1/2	6	6	**MT5022175**	Price	**BL5400100**	Price	**BD50102**	Price
3	.2130	1-1/4	5	6	**MT5022173**	Price	**BL5400097**	Price	**BD50103**	Price
4	.2090	1-1/4	5	6	**MT5022172**	Price	**BL5400096**	Price	**BD50104**	Price
5	.2055	1-1/4	5	6	**MT5022171**	Price	**BL5400095**	Price	**BD50105**	Price
6	.2040	1-1/4	5	6	**MT5022170**	Price	**BL5400094**	Price	**BD50106**	Price
7	.2010	1-1/4	5	6	**MT5022168**	Price	**BL5400092**	Price	**BD50107**	Price
8	.1990	1-1/4	5	6	**MT5022167**	Price	**BL5400091**	Price	**BD50108**	Price
9	.1960	1-1/4	5	6	**MT5022166**	Price	**BL5400089**	Price	**BD50109**	Price
10	.1935	1-1/4	5	6	**MT5022165**	Price	**BL5400088**	Price	**BD50110**	Price
11	.1910	1-1/4	5	6	**MT5022164**	Price	**BL5400087**	Price	**BD50111**	Price
12	.1890	1-1/8	4-1/2	6	**MT5022163**	Price	**BL5400086**	Price	**BD50112**	Price
13	.1850	1-1/8	4-1/2	6	**MT5022159**	Price	**BL5400080**	Price	**BD50113**	Price
14	.1820	1-1/8	4-1/2	6	**MT5022158**	Price	**BL5400079**	Price	**BD50114**	Price
15	.1800	1-1/8	4-1/2	6	**MT5022157**	Price	**BL5400078**	Price	**BD50115**	Price
16	.1770	1-1/8	4-1/2	6	**MT5022156**	Price	**BL5400076**	Price	**BD50116**	Price
17	.1730	1-1/8	4-1/2	6	**MT5022155**	Price	**BL5400075**	Price	**BD50117**	Price
18	.1695	1-1/8	4-1/2	6	**MT5022153**	Price	**BL5400073**	Price	**BD50118**	Price
19	.1660	1-1/8	4-1/2	6	**MT5022152**	Price	**BL5400072**	Price	**BD50119**	Price
20	.1610	1-1/8	4-1/2	6	**MT5022151**	Price	**BL5400071**	Price	**BD50120**	Price
21	.1590	1-1/8	4-1/2	6	**MT5022150**	Price	**BL5400070**	Price	**BD50121**	Price
22	.1570	1	4	6	**MT5022149**	Price	**BL5400068**	Price	**BD50122**	Price
23	.1540	1	4	4	**MT5022147**	Price	**BL5400066**	Price	**BD50123**	Price
24	.1520	1	4	4	**MT5022146**	Price	**BL5400065**	Price	**BD50124**	Price
25	.1495	1	4	4	**MT5022145**	Price	**BL5400064**	Price	**BD50125**	Price
26	.1470	1	4	4	**MT5022144**	Price	**BL5400063**	Price	**BD50126**	Price
27	.1440	1	4	4	**MT5022143**	Price	**BL5400062**	Price	**BD50127**	Price
28	.1405	1	4	4	**MT5022141**	Price	**BL5400060**	Price	**BD50128**	Price
29	.1360	1	4	4	**MT5022140**	Price	**BL5400058**	Price	**BD50129**	Price
30	.1285	7/8	3-1/2	4	**MT5022139**	Price	**BL5400057**	Price	**BD50130**	Price
31	.1200	7/8	3-1/2	4	**MT5022135**	Price	**BL5400051**	Price	**BD50131**	Price
32	.1160	7/8	3-1/2	4	**MT5022134**	Price	**BL5400049**	Price	**BD50132**	Price
33	.1130	7/8	3-1/2	4	**MT5022133**	Price	**BL5400048**	Price	**BD50133**	Price
34	.1110	7/8	3-1/2	4	**MT5022132**	Price	**BL5400047**	Price	**BD50134**	Price
35	.1100	7/8	3-1/2	4	**MT5022131**	Price	**BL5400046**	Price	**BD50135**	Price
36	.1065	7/8	3-1/2	4	**MT5022129**	Price	**BL5400044**	Price	**BD50136**	Price
37	.1040	7/8	3-1/2	4	**MT5022128**	Price	**BL5400043**	Price	**BD50137**	Price
38	.1015	7/8	3-1/2	4	**MT5022127**	Price	**BL5400042**	Price	**BD50138**	Price
39	.0995	7/8	3-1/2	4	**MT5022126**	Price	**BL5400041**	Price	**BD50139**	Price
40	.0980	7/8	3-1/2	4	**MT5022125**	Price	**BL5400039**	Price	**BD50140**	Price
41	.0960	7/8	3-1/2	4	**MT5022124**	Price	**BL5400038**	Price	**BD50141**	Price
42	.0935	3/4	3	4	**MT5022122**	Price	**BL5400036**	Price	**BD50142**	Price
43	.0890	3/4	3	4	**MT5022121**	Price	**BL5400035**	Price	**BD50143**	Price
44	.0860	3/4	3	4	**MT5022120**	Price	**BL5400034**	Price	**BD50144**	Price
45	.0820	3/4	3	4	**MT5022119**	Price	**BL5400033**	Price	**BD50145**	Price
46	.0810	3/4	3	4	**MT5022118**	Price	**BL5400032**	Price	**BD50146**	Price
47	.0785	3/4	3	4	**MT5022117**	Price	**BL5400030**	Price	**BD50147**	Price
48	.0760	3/4	3	4	**MT5022115**	Price	**BL5400028**	Price	**BD50148**	Price
49	.0730	3/4	3	4	**MT5022114**	Price	**BL5400027**	Price	**BD50149**	Price
50	.0700	3/4	3	4	**MT5022113**	Price	**BL5400026**	Price	**BD50150**	Price
51	.0670	3/4	3	4	**MT5022112**	Price	**BL5400025**	Price	**BD50151**	Price
52	.0635	1/2	2-1/2	4	**MT5022111**	Price	**BL5400024**	Price	**BD50152**	Price
53	.0595	1/2	2-1/2	4	**MT5022109**	Price	**BL5400022**	Price	**BD50153**	Price
54	.0550	1/2	2-1/2	4	**MT5022108**	Price	**BL5400020**	Price	**BD50154**	Price
55	.0520	1/2	2-1/2	4	**MT5022107**	Price	**BL5400019**	Price	**BD50155**	Price
56	.0465	1/2	2-1/2	4	**MT5022105**	Price	**BL5400017**	Price	**BD50156**	Price
57	.0430	1/2	2-1/2	4	**MT5022104**	Price	**BL5400016**	Price	**BD50157**	Price
58	.0420	1/2	2-1/2	4	**MT5022103**	Price	**BL5400015**	Price	**BD50158**	Price
59	.0410	1/2	2-1/2	4	**MT5022102**	Price	**BL5400014**	Price	**BD50159**	Price
60	.0400	1/2	2-1/2	4	**MT5022101**	Price	**BL5400013**	Price	**BD50160**	Price

Metric Straight Shank Straight Flute Chucking Reamers

High Speed Steel

- Diameter tolerances:
  thru 12.50mm +.0002 -.0000
  13.00 to 15.50mm +.0003 -.0000
  16.00 to 25.00mm +.0001 +.0004
- Morse List #1655



				Morse Cutting Tools		Rapidkut		ProCut	
				High Speed Steel		High Speed Steel		High Speed Steel	
Size (mm)	Dec. Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1.00	.0394	—	2-1/2	MT5222350	Price	-	-	-	-
1.50	.0591	—	2-1/2	MT5222351	Price	-	-	-	-
2.00	.0787	3/4	3	MT5222352	Price	-	-	-	-
2.50	.0984	—	3-1/2	MT5222353	Price	-	-	-	-
3.00	.1181	7/8	3-1/2	MT5222354	Price	BL5400050	Price	BD650300	Price
3.50	.1378	1	4	MT5222355	Price	BL5400059	Price	BD650350	Price
4.00	.1575	1	4	MT5222356	Price	BL5400069	Price	BD650400	Price
4.50	.1772	1-1/8	4-1/2	MT5222357	Price	BL5400077	Price	BD650450	Price
5.00	.1968	1-1/4	5	MT5222358	Price	BL5400090	Price	BD650500	Price
5.50	.2165	1-1/4	5	MT5222359	Price	BL5400098	Price	BD650550	Price
6.00	.2362	1-1/2	6	MT5222360	Price	BL5400104	Price	BD650600	Price
6.50	.2559	1-1/2	6	MT5222361	Price	BL5400113	Price	BD650650	Price
7.00	.2756	1-1/2	6	MT5222362	Price	BL5400119	Price	BD650700	Price
7.50	.2953	1-1/2	6	MT5222363	Price	BL5400125	Price	BD650750	Price
8.00	.3150	1-1/2	6	MT5222364	Price	BL5400133	Price	BD650800	Price
8.50	.3346	1-1/2	6	MT5222365	Price	BL5400138	Price	BD650850	Price
9.00	.3543	1-3/4	7	MT5222366	Price	BL5400142	Price	BD650900	Price
9.50	.3740	1-3/4	7	MT5222367	Price	BL5400148	Price	BD650950	Price
10.00	.3937	1-3/4	7	MT5222368	Price	BL5400155	Price	BD651000	Price
10.50	.4134	1-3/4	7	MT5222369	Price	BL5400160	Price	BD651050	Price
11.00	.4331	1-3/4	7	MT5222370	Price	BL5400162	Price	BD651100	Price
11.50	.4528	1-3/4	7	MT5222371	Price	BL5400168	Price	BD651150	Price
12.00	.4724	1-3/4	7	MT5222372	Price	BL5400171	Price	BD651200	Price
12.50	.4921	1-3/4	7	MT5222373	Price	BL5400173	Price	BD651250	Price
13.00	.5118	1-3/4	7	MT5222374	Price	BL5400179	Price	BD651300	Price
13.50	.5315	2	8	MT5222375	Price	BL5400181	Price	BD651350	Price
14.00	.5512	2	8	MT5222376	Price	BL5400182	Price	BD651400	Price
14.50	.5709	2	8	MT5222377	Price	BL5400184	Price	BD651450	Price
15.00	.5906	2	8	MT5222378	Price	BL5400185	Price	BD651500	Price
15.50	.6102	2	8	MT5222379	Price	BL5400187	Price	BD651550	Price
16.00	.6299	2-1/4	9	MT5222380	Price	BL5400189	Price	BD651600	Price
16.50	.6496	2-1/4	9	MT5222381	Price	BL5400190	Price	BD651650	Price
17.00	.6693	2-1/4	9	MT5222382	Price	BL5400192	Price	BD651700	Price
17.50	.6890	2-1/4	9	MT5222383	Price	BL5400194	Price	BD651750	Price
18.00	.7087	2-1/4	9	MT5222384	Price	BL5400195	Price	BD651800	Price
18.50	.7283	2-1/2	9-1/2	MT5222385	Price	BL5400197	Price	BD651850	Price
19.00	.7480	2-1/2	9-1/2	MT5222386	Price	BL5400198	Price	BD651900	Price
19.50	.7677	2-1/2	9-1/2	MT5222387	Price	BL5400200	Price	BD651950	Price
20.00	.7874	2-1/2	9-1/2	MT5222388	Price	BL5400202	Price	BD652000	Price
20.50	.8071	2-1/2	9-1/2	MT5222389	Price	BL5400203	Price	BD652050	Price
21.00	.8268	2-1/2	9-1/2	MT5222390	Price	BL5400205	Price	BD652100	Price
21.50	.8465	2-5/8	10	MT5222391	Price	BL5400207	Price	BD652150	Price
22.00	.8661	2-5/8	10	MT5222392	Price	BL5400208	Price	BD652200	Price
22.50	.8858	2-5/8	10	MT5222393	Price	BL5400210	Price	BD652250	Price
23.00	.9055	2-5/8	10	MT5222394	Price	BL5400211	Price	BD652300	Price
23.50	.9252	2-5/8	10	MT5222395	Price	BL5400213	Price	BD652350	Price
24.00	.9449	2-5/8	10	MT5222396	Price	BL5400215	Price	BD652400	Price
24.50	.9646	2-5/8	10	MT5222397	Price	BL5400216	Price	BD652450	Price
25.00	.9843	2-3/4	10-1/2	MT5222398	Price	BL5400218	Price	BD652500	Price

Straight Shank Straight Flute Dowel Pin Chucking Reamers

High Speed Steel & Carbide Tipped

Diameter tolerances: +.0000 -.0002



					ProCut		Rock River Tool	
			High Speed Steel		High Speed Steel		Price	
Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
.1230	7/8	3-1/2	BD561230	Price	BD541230	Price	-	-
.1247	7/8	3-1/2	BD561247	Price	BD541247	Price	-	-
.1855	1-1/8	4-1/2	BD561855	Price	BD541855	Price	BF501855	Price
.1870	1-1/8	4-1/2	BD561870	Price	BD541870	Price	BF501870	Price
.2480	1-1/2	6	BD562480	Price	BD542480	Price	BF502480	Price
.2495	1-1/2	6	BD562495	Price	BD542495	Price	BF502495	Price
.3105	1-1/2	6	BD563105	Price	BD543105	Price	BF503105	Price
.3120	1-1/2	6	BD563120	Price	BD543120	Price	BF503120	Price
.3730	1-3/4	7	BD563730	Price	BD543730	Price	BF503730	Price
.3745	1-3/4	7	BD563745	Price	BD543745	Price	BF503745	Price
.4355	1-3/4	7	BD564355	Price	BD544355	Price	BF504355	Price
.4370	1-3/4	7	BD564370	Price	BD544370	Price	BF504370	Price
.4980	2	8	BD564980	Price	BD544980	Price	BF504980	Price
.4995	2	8	BD564995	Price	BD544995	Price	BF504995	Price

Metric Chucking Reamers

- **Carbide tipped**
- Straight shank
- Straight flute



Size (mm)	Order No.	Price
4.00	BF502400040	Price
5.00	BF502400050	Price
6.00	BF502400060	Price
8.00	BF502400080	Price
10.00	BF502400100	Price
12.00	BF502400120	Price
16.00	BF502400160	Price

Straight Shank Straight Flute Cobalt Chucking Reamers



- Diameter tolerances:
  thru 1/2" diameter +.0002 -.0000
  above 1/2" to 5/8" +.0003 -.0000
  above 5/8" to 1-1/2" +.0001 +.0004
- Morse List #2655

					Morse Cutting Tools		ProCut	
Size (in.)	Dec. Equiv.	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price
1/16	.0625	1/2	2-1/2	4	**MT5322400**	Price	**BD70004**	Price
5/64	.0781	3/4	3	4	**MT5322401**	Price	**BD70005**	Price
3/32	.0938	3/4	3	4	**MT5322402**	Price	**BD70006**	Price
7/64	.1094	7/8	3-1/2	4	**MT5322403**	Price	**BD70007**	Price
1/8	.1250	7/8	3-1/2	4	**MT5322404**	Price	**BD70008**	Price
9/64	.1406	1	4	4	**MT5322405**	Price	**-**	-
5/32	.1562	1	4	4	**MT5322406**	Price	**BD70010**	Price
11/64	.1719	1-1/8	4-1/2	6	**MT5322407**	Price	**BD70011**	Price
3/16	.1875	1-1/8	4-1/2	6	**MT5322408**	Price	**BD70012**	Price
13/64	.2031	1-1/4	5	6	**MT5322409**	Price	**BD70013**	Price
7/32	.2188	1-1/4	5	6	**MT5322410**	Price	**BD70014**	Price
15/64	.2344	1-1/2	6	6	**MT5322411**	Price	**BD70015**	Price
1/4	.2500	1-1/2	6	6	**MT5322413**	Price	**BD70016**	Price
17/64	.2656	1-1/2	6	6	**MT5322415**	Price	**BD70017**	Price
9/32	.2812	1-1/2	6	6	**MT5322416**	Price	**BD70018**	Price
19/64	.2969	1-1/2	6	6	**MT5322417**	Price	**BD70019**	Price
5/16	.3125	1-1/2	6	6	**MT5322419**	Price	**BD70020**	Price
21/64	.3281	1-1/2	6	6	**MT5322421**	Price	**BD70021**	Price
11/32	.3438	1-1/2	6	6	**MT5322422**	Price	**BD70022**	Price
23/64	.3594	1-3/4	7	6	**MT5322423**	Price	**BD70023**	Price
3/8	.3750	1-3/4	7	6	**MT5322425**	Price	**BD70024**	Price
25/64	.3906	1-3/4	7	6	**MT5322427**	Price	**BD70025**	Price
13/32	.4062	1-3/4	7	6	**MT5322428**	Price	**BD70026**	Price
27/64	.4219	1-3/4	7	6	**MT5322429**	Price	**BD70027**	Price
7/16	.4375	1-3/4	7	6	**MT5322431**	Price	**BD70028**	Price
29/64	.4531	1-3/4	7	6	**MT5322433**	Price	**BD70029**	Price
15/32	.4688	1-3/4	7	6	**MT5322434**	Price	**BD70030**	Price
31/64	.4844	2	8	6	**MT5322435**	Price	**BD70031**	Price
1/2	.5000	2	8	6	**MT5322437**	Price	**BD70032**	Price
17/32	.5312	2	8	6	**MT5322440**	Price	**BD70034**	Price
9/16	.5625	2	8	6	**MT5322443**	Price	**BD70036**	Price
19/32	.5938	2	8	6	**MT5322445**	Price	**BD70038**	Price
5/8	.6250	2-1/4	9	8	**MT5322448**	Price	**BD70040**	Price
21/32	.6562	2-1/4	9	8	**MT5322451**	Price	**BD70042**	Price
11/16	.6875	2-1/4	9	8	**MT5322454**	Price	**BD70044**	Price
23/32	.7188	2-1/4	9	8	**MT5322457**	Price	**-**	-
3/4	.7500	2-1/2	9-1/2	8	**MT5322460**	Price	**BD70048**	Price
25/32	.7812	2-1/2	9-1/2	8	**MT5322463**	Price	**-**	-
13/16	.8125	2-1/2	9-1/2	8	**MT5322466**	Price	**-**	-
27/32	.8438	2-1/2	9-1/2	8	**MT5322469**	Price	**BD70054**	Price
7/8	.8750	2-5/8	10	8	**MT5322472**	Price	**BD70056**	Price
29/32	.9062	2-5/8	10	8	**MT5322475**	Price	**-**	
Price	.9375	2-5/8	10	8	**MT5322478**	Price	**BD70060**	Price
31/32	.9688	2-5/8	10	8	**MT5322481**	Price	**-**	-
1	1.0000	2-3/4	10-1/2	8	**MT5322484**	Price	**BD70100**	Price

Straight Shank Straight Flute Chucking Reamers

High Speed Steel & Carbide Tipped
Popular Over/Under Size Reamers



- Diameter Tolerances:
  thru 1/2" diameter +.0002 -.0000
  above 1/2" to 5/8" +.0003 -.0000
  above 5/8" to 1-1/2" +.0001 +.0004
- Morse List #1655H

					Morse Cutting Tools		ProCut		Rapidkut		Rock River Tool	
					High Speed Steel		High Speed Steel		High Speed Steel		High Speed Steel (carbide tipped)	
Size (in.)	Dec. Equiv.	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
.1240	.1240	7/8	3-1/2	4	**MT5022136**	Price	**BD521240**	Price	**BD561240**	Price	**-**	-
.1260	.1260	7/8	3-1/2	4	**MT5022138**	Price	**BD521260**	Price	**BD561260**	Price	**-**	-
.1865	.1865	1-1/8	4-1/2	6	**MT5022160**	Price	**BD521865**	Price	**BD561865**	Price	**BF501865**	Price
.1885	.1885	1-1/8	4-1/2	6	**MT5022162**	Price	**BD521885**	Price	**BD561885**	Price	**BF501885**	Price
.2490	.2490	1-1/2	6	6	**MT5022182**	Price	**BD522490**	Price	**BD562490**	Price	**BF502490**	Price
.2510	.2510	1-1/2	6	6	**MT5022185**	Price	**BD522510**	Price	**BD562510**	Price	**BF502510**	Price
.3115	.3115	1-1/2	6	6	**MT5022198**	Price	**BD523115**	Price	**BD563115**	Price	**BF503115**	Price
.3135	.3135	1-1/2	6	6	**MT5022200**	Price	**BD523135**	Price	**BD563135**	Price	**BF503135**	Price
.3740	.3740	1-3/4	7	6	**MT5022211**	Price	**BD523740**	Price	**BD563740**	Price	**BF503740**	Price
.3760	.3760	1-3/4	7	6	**MT5022213**	Price	**BD523760**	Price	**BD563760**	Price	**BF503760**	Price
.4365	.4365	1-3/4	7	6	**MT5022222**	Price	**BD524365**	Price	**BD564365**	Price	**BF504365**	Price
.4385	.4385	1-3/4	7	6	**MT5022224**	Price	**BD524385**	Price	**BD564385**	Price	**BF504385**	Price
.4990	.4990	2	8	6	**MT5022228**	Price	**BD524990**	Price	**BD564990**	Price	**BF504990**	Price
.5010	.5010	2	8	6	**MT5022230**	Price	**BD525010**	Price	**BD565010**	Price	**BF505010**	Price
.5615	.5615	2	8	6	**-**	-	**-**	-	**BD565615**	Price	**-**	-
.5615	.5615	2	8	8	**MT5029932**	Price	**-**	-	**-**	-	**-**	-
.5635	.5635	2	8	6	**-**	-	**-**	-	**BD565635**	Price	**-**	-
.5635	.5635	2	8	8	**MT5029933**	Price	**-**	-	**-**	-	**-**	-
.6240	.6240	2-1/4	9	6	**-**	-	**-**	-	**BD566240**	Price	**BF506240**	Price
.6240	.6240	2-1/4	9	8	**MT5029850**	Price	**-**	-	**-**	-	**-**	-
.6260	.6260	2-1/4	9	8	**MT5029853**	Price	**-**	-	**BD566260**	Price	**BF506260**	Price
.7490	.7490	2-1/2	9-1/2	8	**MT5029873**	Price	**-**	-	**BD567490**	Price	**BF507490**	Price
.7510	.7510	2-1/2	9-1/2	8	**MT5029876**	Price	**-**	-	**BD567510**	Price	**BF507510**	Price
.8740	.8740	2-5/8	10	8	**MT5029899**	Price	**-**	-	**BD568740**	Price	**-**	-
.8760	.8760	2-5/8	10	8	**MT5029902**	Price	**-**	-	**BD568760**	Price	**-**	-
.9990	.9990	2-3/4	10-1/2	8-10	**MT5029924**	Price	**-**	-	**-**	-	**-**	-
.9990	.9990	2-5/8	10-1/2	8	**-**	-	**-**	-	**BD569990**	Price	**-**	-
1.0010	1.0010	2-3/4	10-1/2	8	**-**	-	**-**	-	**BD5610010**	Price	**-**	-
1.0010	1.0010	2-3/4	10-1/2	8-10	**MT5029927**	Price	**-**	-	**-**	-	**-**	-

Straight Shank Spiral Flute Chucking Reamers

High Speed Steel

Diameter tolerances:
thru 1/2" diameter: +.0002 - .0000
above 1/2" to 5/8": +.0003 - .0000
above 5/8" to 1-1/2": +.0001 - +.0004
Morse List #1653



					Price		Right Hand Spiral / RH Cut		Left Hand Spiral / RH Cut	
					Morse Cutting Tools		ProCut		ProCut	
Size (in.)	Dec. Equiv.	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1/16	.0625	1/2	2-1/2	4	**MT5121701**	Price	**-**	-	**-**	-
5/64	.0781	3/4	3	4	**MT5121702**	Price	**BD51005**	Price	**BD51L005**	Price
3/32	.0938	3/4	3	4	**MT5121703**	Price	**BD51006**	Price	**-**	-
7/64	.1094	7/8	3-1/2	4	**MT5121704**	Price	**BD51007**	Price	**BD51L007**	Price
1/8	.1250	7/8	3-1/2	4	**MT5121705**	Price	**BD51008**	Price	**BD51L008**	Price
9/64	.1406	1	4	4	**MT5121706**	Price	**BD51009**	Price	**BD51L009**	Price
5/32	.1562	1	4	4	**MT5121707**	Price	**BD51010**	Price	**BD51L010**	Price
11/64	.1719	1-1/8	4-1/2	6	**MT5121708**	Price	**BD51011**	Price	**BD51L011**	Price
3/16	.1875	1-1/8	4-1/2	6	**MT5121709**	Price	**BD51012**	Price	**-**	-
13/64	.2031	1-1/4	5	6	**MT5121710**	Price	**BD51013**	Price	**BD51L013**	Price
7/32	.2188	1-1/4	5	6	**MT5121711**	Price	**BD51014**	Price	**BD51L014**	Price
15/64	.2344	1-1/2	6	6	**MT5121712**	Price	**BD51015**	Price	**BD51L015**	Price
1/4	.2500	1-1/2	6	6	**MT5121713**	Price	**BD51016**	Price	**-**	-
17/64	.2656	1-1/2	6	6	**MT5121714**	Price	**BD51017**	Price	**BD51L017**	Price
9/32	.2812	1-1/2	6	6	**MT5121715**	Price	**BD51018**	Price	**BD51L018**	Price
19/64	.2969	1-1/2	6	6	**MT5121716**	Price	**BD51019**	Price	**BD51L019**	Price
5/16	.3125	1-1/2	6	6	**MT5121717**	Price	**BD51020**	Price	**-**	-
21/64	.3281	1-1/2	6	6	**MT5121718**	Price	**BD51021**	Price	**-**	-
11/32	.3438	1-1/2	6	6	**MT5121719**	Price	**BD51022**	Price	**BD51L022**	Price
23/64	.3594	1-3/4	7	6	**MT5121720**	Price	**BD51023**	Price	**BD51L023**	Price
3/8	.3750	1-3/4	7	6	**MT5121721**	Price	**BD51024**	Price	**-**	-
25/64	.3906	1-3/4	7	6	**MT5121722**	Price	**BD51025**	Price	**BD51L025**	Price
13/32	.4062	1-3/4	7	6	**MT5121723**	Price	**BD51026**	Price	**BD51L026**	Price
27/64	.4219	1-3/4	7	6	**MT5121724**	Price	**BD51027**	Price	**BD51L027**	Price
7/16	.4375	1-3/4	7	6	**MT5121725**	Price	**BD51028**	Price	**-**	-
29/64	.4531	1-3/4	7	6	**MT5121726**	Price	**BD51029**	Price	**-**	-
15/32	.4688	1-3/4	7	6	**MT5121727**	Price	**BD51030**	Price	**BD51L030**	Price
31/64	.4844	2	8	6	**MT5121728**	Price	**BD51031**	Price	**BD51L031**	Price
1/2	.5000	2	8	6	**MT5121729**	Price	**BD51032**	Price	**BD51L032**	Price
17/32	.5312	2	8	6	**MT5121730**	Price	**BD51034**	Price	**-**	-
9/16	.5625	2	8	6-8	**MT5121731**	Price	**BD51036**	Price	**-**	-
19/32	.5938	2	8	6-8	**MT5121732**	Price	**BD51038**	Price	**-**	-
5/8	.6250	2-1/4	9	8	**MT5121733**	Price	**BD51040**	Price	**-**	-
21/32	.6562	2-1/4	9	8	**MT5121734**	Price	**BD51042**	Price	**-**	-
11/16	.6875	2-1/4	9	8	**MT5121735**	Price	**BD51044**	Price	**-**	-
23/32	.7188	2-1/4	9	8	**MT5121736**	Price	**BD51046**	Price	**-**	-
3/4	.7500	2-1/2	9-1/2	8	**MT5121737**	Price	**BD51048**	Price	**-**	-
25/32	.7812	2-1/2	9-1/2	8	**MT5121738**	Price	**BD51050**	Price	**-**	-
13/16	.8125	2-1/2	9-1/2	8	**MT5121739**	Price	**BD51052**	Price	**-**	-
27/32	.8438	2-1/2	9-1/2	8	**MT5121740**	Price	**BD51054**	Price	**-**	-
7/8	.8750	2-5/8	10	8	**MT5121741**	Price	**BD51056**	Price	**-**	-
29/32	.9062	2-5/8	10	8	**MT5121742**	Price	**BD51058**	Price	**-**	-
15/16	.9375	2-5/8	10	8	**MT5121743**	Price	**BD51060**	Price	**-**	-
31/32	.9688	2-5/8	10	8	**MT5121744**	Price	**BD51062**	Price	**-**	-
1	1.0000	2-3/4	10-1/2	8	**MT5121745**	Price	**BD51064**	Price	**-**	-
1-1/16	1.0625	2-3/4	10-1/2	8	**MT5121746**	Price	**BD51068**	Price	**-**	-
1-1/8	1.1250	2-7/8	11	8-10	**MT5121747**	Price	**BD51072**	Price	**-**	-
1-3/16	1.1875	2-7/8	11	8-10	**MT5121748**	Price	**BD51076**	Price	**-**	-
1-1/4	1.2500	3	11-1/2	8-10	**MT5121749**	Price	**BD51080**	Price	**-**	-
1-5/16	1.3125	3	11-1/2	8-10	**MT5121750**	Price	**BD51084**	Price	**-**	-
1-3/8	1.3750	3-1/4	12	10	**MT5121751**	Price	**BD51088**	Price	**-**	-
1-7/16	1.4375	3-1/4	12-1/2	10	**MT5121752**	Price	**BD51092**	Price	**-**	-
1-1/2	1.5000	3-1/2	12-1/2	10	**MT5121753**	Price	**BD51096**	Price	**-**	-

14 Pc. Metric Straight Shank Chucking Reamer Set

High Speed Steel • Straight Flute • Right Hand Cut



- Over/under size set in plastic pouch
- Sizes included::.1565, .1585, .2352, .2372, .2746, .2766, .3140, .3160, .3533, .3553, .3927, .3947, .4714, & .4734
- Morse List #1655M

Order No.	Price
MT5023304	Price

25 Pc. Metric Straight Shank Chucking Reamer Set

High Speed Steel • Straight Flute • Right Hand Cut



- Standard size set in metal case
- Morse List #1655M

Sizes Included	Order No.	Price
1.0 - 13.0mm by 0.5mm	**MT5023305**	Price

Chucking Reamer Sets

High Speed Steel • Straight Flute



In Vinyl Pouch



RAPIDKUT

Price		Price			
		Rapidkut		Price	
No. of Reamers	Set Range	Order No.	Price	Order No.	Price
14	.1230 - .4995 Dowel Pin Size	**BD61100**	Price	**BD60100**	Price
14	.1240 - .5010 Over/Under Size	**BD61110**	Price	**BD60110**	Price
25	1/8" - 1/2" by 64ths	**-**	-	**BD60150**	Price
25	1mm - 13mm by .5mm	**BD61170**	Price	**BD60170**	Price
26	A - Z Letter Size	**BD61130**	Price	**BD60130**	Price
29	1/16" - 1/2" by 64ths	**BD61150**	Price	**-**	-
30	#1 - #30 Wire Gage Size	**-**	-	**BD60120**	Price
60	#1 - #60 Wire Gage Size	**BD61160**	Price	**-**	-

Taper Shank Chucking Reamers




High Speed Steel

- Many other sizes also in stock — left hand spiral, special diameters, and 32nd and 64th sizes. Please inquire.
- Morse Cutting Tools List #1654 (spiral flute)
- Morse Cutting Tools List #1656 (straight flute)

HSS M GP PROCUT

					Price				ProCut			
					Spiral Flute		Straight Flute		Spiral Flute		Straight Flute	
Size (in.)	Flute Length (in.)	OAL (in.)	Taper Shank	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/4	1-1/2	6	1 MT	6	**MT5121851**	Price	**MT5122311**	Price	**BE51016**	Price	**BE50016**	Price
9/32	1-1/2	6	1 MT	6	-	-	-	-	**BE51018**	Price	**BE50018**	Price
5/16	1-1/2	6	1 MT	6	**MT5121853**	Price	**MT5122313**	Price	**BE51020**	Price	**BE50020**	Price
11/32	1-1/2	6	1 MT	6	**MT5121854**	Price	**MT5122314**	Price	**BE51022**	Price	**BE50022**	Price
3/8	1-3/4	7	1 MT	6	**MT5121855**	Price	**MT5122315**	Price	**BE51024**	Price	**BE50024**	Price
13/32	1-3/4	7	1 MT	6	**MT5121856**	Price	**MT5122316**	Price	**BE51026**	Price	**BE50026**	Price
7/16	1-3/4	7	1 MT	6	**MT5121857**	Price	**MT5122317**	Price	**BE51028**	Price	**BE50028**	Price
15/32	1-3/4	7	1 MT	6	**MT5121858**	Price	**MT5122318**	Price	**BE51030**	Price	**BE50030**	Price
1/2	2	8	1 MT	6	**MT5121859**	Price	**MT5122319**	Price	**BE51032**	Price	**BE50032**	Price
17/32	2	8	1 MT	6	**MT5121860**	Price	**MT5122320**	Price	**BE51034**	Price	**BE50034**	Price
9/16	2	8	1 MT	6	**MT5121861**	Price	**MT5122321**	Price	**BE51036**	Price	**BE50036**	Price
19/32	2	8	1 MT	6	-	-	**MT5122322**	Price	**BE51038**	Price	**BE50038**	Price
5/8	2-1/4	9	2 MT	6	**MT5121863**	Price	**MT5122323**	Price	**BE51040**	Price	**BE50040**	Price
21/32	2-1/4	9	2 MT	6	**MT5121864**	Price	**MT5122324**	Price	**BE51042**	Price	**BE50042**	Price
11/16	2-1/4	9	2 MT	6	**MT5121865**	Price	**MT5122325**	Price	**BE51044**	Price	**BE50044**	Price
23/32	2-1/4	9	2 MT	6	**MT5121866**	Price	**MT5122326**	Price	**BE51046**	Price	**BE50046**	Price
3/4	2-1/2	9-1/2	2 MT	6	**MT5121867**	Price	**MT5122327**	Price	**BE51048**	Price	**BE50048**	Price
25/32	2-1/2	9-1/2	2 MT	6	**MT5121868**	Price	**MT5122328**	Price	**BE51050**	Price	**BE50050**	Price
13/16	2-1/2	9-1/2	2 MT	8	**MT5121869**	Price	**MT5122329**	Price	**BE51052**	Price	**BE50052**	Price
27/32	2-1/2	9-1/2	2 MT	8	**MT5121870**	Price	**MT5122330**	Price	**BE51054**	Price	**BE50054**	Price
7/8	2-5/8	10	2 MT	8	**MT5121871**	Price	**MT5122331**	Price	**BE51056**	Price	**BE50056**	Price
29/32	2-5/8	10	2 MT	8	**MT5121872**	Price	**MT5122332**	Price	**BE51058**	Price	**BE50058**	Price
15/16	2-5/8	10	3 MT	8	**MT5121873**	Price	**MT5122333**	Price	**BE51060**	Price	**BE50060**	Price
31/32	2-5/8	10	3 MT	8	**MT5121874**	Price	**MT5122334**	Price	**BE51062**	Price	**BE50062**	Price
1	2-3/4	10-1/2	3 MT	8	**MT5121875**	Price	**MT5122335**	Price	**BE51100**	Price	**BE50100**	Price
1-1/16	2-3/4	10-1/2	3 MT	8	**MT5121876**	Price	**MT5122336**	Price	**BE51104**	Price	**BE50104**	Price
1-1/8	2-7/8	11	3 MT	8	**MT5121877**	Price	**MT5122337**	Price	**BE51108**	Price	**BE50108**	Price
1-3/16	2-7/8	11	3 MT	8	**MT5121878**	Price	**MT5122338**	Price	**BE51112**	Price	**BE50112**	Price
1-1/4	3	11-1/2	4 MT	8	**MT5121879**	Price	**MT5122339**	Price	**BE51116**	Price	**BE50116**	Price
1-5/16	3	11-1/2	4 MT	10	**MT5121880**	Price	**MT5122340**	Price	**BE51120**	Price	**BE50120**	Price
1-3/8	3-1/4	12	4 MT	10	**MT5121881**	Price	**MT5122341**	Price	**BE51124**	Price	**BE50124**	Price
1-7/16	3-1/4	12	4 MT	10	**MT5121882**	Price	**MT5122342**	Price	**BE51128**	Price	**BE50128**	Price
1-1/2	3-1/2	12-1/2	4 MT	10	**MT5121883**	Price	**MT5122343**	Price	**BE51132**	Price	**BE50132**	Price

PROCUT Expansion Chucking Reamers




HIgh Speed Steel • Screw Adjustment Type

- Not designed to allow for reaming over or under size holes — expansion feature to permit resharpening after becoming worn
- See catalog index for adjustable blade reamers which allow reaming under or over size holes.
- Straight shank diameter - same as regular reamers

			Straight Shank		Taper Shank		
Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Taper Shank	Order No.	Price
3/8	3/4	7	**BH51024**	Price	1 MT	**BH50024**	Price
13/32	3/4	7	**BH51026**	Price	1 MT	**BH50026**	Price
7/16	7/8	7	**BH51028**	Price	1 MT	**BH50028**	Price
15/32	7/8	7	**BH51030**	Price	1 MT	**BH50030**	Price
1/2	1	8	**BH51032**	Price	1 MT	**BH50032**	Price
17/32	1	8	**BH51034**	Price	1 MT	**BH50034**	Price
9/16	1-1/8	8	**BH51036**	Price	1 MT	**BH50036**	Price
19/32	1-1/8	8	**BH51038**	Price	1 MT	**BH50038**	Price
5/8	1-1/4	9	**BH51040**	Price	2 MT	**BH50040**	Price
21/32	1-1/4	9	-	-	2 MT	**BH50042**	Price
11/16	1-1/4	9	**BH51044**	Price	2 MT	**BH50044**	Price
23/32	1-1/4	9	**BH51046**	Price	2 MT	**BH50046**	Price
3/4	1-3/8	9-1/2	**BH51048**	Price	2 MT	**BH50048**	Price
25/32	1-3/8	9-1/2	**BH51050**	Price	2 MT	**BH50050**	Price
13/16	1-3/8	9-1/2	**BH51052**	Price	2 MT	**BH50052**	Price
27/32	1-3/8	9-1/2	**BH51054**	Price	2 MT	**BH50054**	Price
7/8	1-1/2	10	**BH51056**	Price	2 MT	**BH50056**	Price
29/32	1-1/2	10	**BH51058**	Price	2 MT	**BH50058**	Price
15/16	1-1/2	10	**BH51060**	Price	3 MT	**BH50060**	Price
31/32	1-1/2	10	**BH51062**	Price	3 MT	**BH50062**	Price
1	1-5/8	10-1/2	**BH51100**	Price	3 MT	**BH50100**	Price

			Straight Shank		Taper Shank		
Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Taper Shank	Order No.	Price
1-1/16	1-5/8	10-1/2	**BH51104**	Price	3 MT	**BH50104**	Price
1-1/8	1-3/4	11	**BH51108**	Price	3 MT	**BH50108**	Price
1-3/16	1-3/4	11	-	-	3 MT	**BH50112**	Price
1-1/4	1-7/8	11-1/2	**BH51116**	Price	4 MT	**BH50116**	Price
1-5/16	1-7/8	11-1/2	**BH51120**	Price	4 MT	**BH50120**	Price
1-3/8	2	12	**BH51124**	Price	4 MT	**BH50124**	Price
1-7/16	2	12	**BH51128**	Price	-	-	-
1-1/2	2-1/8	12-1/2	**BH51132**	Price	4 MT	**BH50132**	Price
1-9/16	2-1/8	12-1/2	**BH51136**	Price	4 MT	**BH50136**	Price
1-5/8	2-1/4	13	**BH51140**	Price	4 MT	**BH50140**	Price
1-11/16	2-1/4	13	**BH51144**	Price	-	-	-
1-3/4	2-3/8	13-1/2	**BH51148**	Price	5 MT	**BH50148**	Price
1-13/16	2-3/8	13-1/2	-	-	5 MT	**BH50152**	Price
1-7/8	2-1/2	14	-	-	5 MT	**BH50156**	Price
1-15/16	2-1/2	14	**BH51160**	Price	-	-	-
2	2-1/2	14	**BH51200**	Price	5 MT	**BH50200**	Price
2-1/8	2-3/4	14	-	-	5 MT	**BH50208**	Price
2-1/4	2-3/4	14-1/2	-	-	5 MT	**BH50216**	Price
2-3/8	2-3/4	15	-	-	5 MT	**BH50224**	Price
2-7/16	3	15	-	-	5 MT	**BH50228**	Price
2-1/2	3	15	-	-	5 MT	**BH50232**	Price

PRODUIT Hand Reamers





High Speed Steel

- For sizing of drilled holes
- Slight taper ground on cutting end for easy entry
- Squared shank end fits a tap wrench
- Carbon hand reamers available in nearly all sizes at 80% off the high speed prices & will do most jobs if used by hand

			Straight Flute		Spiral Flute	
Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/8	1-1/2	3	**BM50008**	Price	**BM51008**	Price
5/32	1-5/8	3-1/4	**BM50010**	Price	**-**	-
11/64	1-3/4	3-1/2	**-**	-	**BM51011**	Price
3/16	1-3/4	3-1/2	**BM50012**	Price	**BM51012**	Price
7/32	1-7/8	3-3/4	**BM50014**	Price	**BM51014**	Price
15/64	2	4	**BM50015**	Price	**BM51015**	Price
1/4	2	4	**BM50016**	Price	**BM51016**	Price
9/32	2-1/8	4-1/4	**BM50018**	Price	**-**	-
19/64	2-1/4	4-1/2	**BM50019**	Price	**BM51019**	Price
5/16	2-1/4	4-1/2	**BM50020**	Price	**BM51020**	Price
11/32	2-3/8	4-3/4	**BM50022**	Price	**BM51022**	Price
23/64	2-1/2	5	**BM50023**	Price	**BM51023**	Price
3/8	2-1/2	5	**BM50024**	Price	**BM51024**	Price
13/32	2-5/8	5-1/4	**BM50026**	Price	**BM51026**	Price
27/64	2-3/4	5-1/2	**BM50027**	Price	**BM51027**	Price
7/16	2-3/4	5-1/2	**BM50028**	Price	**BM51028**	Price
15/32	2-7/8	5-3/4	**BM50030**	Price	**BM51030**	Price
1/2	3	6	**BM50032**	Price	**BM51032**	Price
17/32	3-1/8	6-1/4	**BM50034**	Price	**-**	-
9/16	3-1/4	6-1/2	**BM50036**	Price	**BM51036**	Price
19/32	3-3/8	6-3/4	**BM50038**	Price	**BM51038**	Price
5/8	3-1/2	7	**BM50040**	Price	**BM51040**	Price

			Straight Flute		Spiral Flute	
Size (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
21/32	3-11/16	7-3/8	**BM50042**	Price	**BM51042**	Price
11/16	3-7/8	7-3/4	**BM50044**	Price	**BM51044**	Price
23/32	4-1/16	8-1/8	**BM50046**	Price	**BM51046**	Price
3/4	4-3/16	8-3/8	**BM50048**	Price	**BM51048**	Price
25/32	4-3/8	8-3/4	**-**	-	**BM51050**	Price
13/16	4-9/16	9-1/8	**BM50052**	Price	**BM51052**	Price
27/32	4-11/16	9-3/8	**BM50054**	Price	**BM51054**	Price
7/8	4-7/8	9-3/4	**BM50056**	Price	**BM51056**	Price
29/32	5	10	**BM50058**	Price	**BM51058**	Price
15/16	5-1/8	10-1/4	**BM50060**	Price	**BM51060**	Price
31/32	5-5/16	10-5/8	**BM50062**	Price	**-**	-
1	5-7/16	10-7/8	**BM50100**	Price	**BM51100**	Price
1-1/16	5-5/8	11-1/4	**BM50104**	Price	**-**	-
1-1/8	5-13/16	11-5/8	**BM50108**	Price	**BM51108**	Price
1-3/16	6	12	**BM50112**	Price	**BM51112**	Price
1-1/4	6-1/8	12-1/4	**BM50116**	Price	**BM51116**	Price
1-5/16	6-1/4	12-1/2	**BM50120**	Price	**BM51120**	Price
1-3/8	6-5/16	12-5/8	**BM50124**	Price	**BM51124**	Price
1-7/16	6-7/16	12-7/8	**BM50128**	Price	**BM51128**	Price
1-1/2	6-1/2	13	**BM50132**	Price	**BM51132**	Price
1-3/4	6-3/4	13-1/2	**BM50148**	Price	**-**	-

PRODUIT Taper Pin Reamers



High Speed Steel

- For reaming tapered holes that receive standard taper pins
- Reamers have a taper of 1/4" per foot
- The point of each reamer will enter hole reamed by next smaller size
- **Straight flute** is designed for hand use in easier to ream materials
- **Spiral flute** with left hand spiral for hand use in harder to ream materials
- **Helical flute** built for machine reaming of pin holes on a production basis, prevents chips from packing in flutes and reduces breakage; free cutting action at high speeds produces a fine finish

					Helical Flute		Spiral Flute		Straight Flute	
Size (in.)	Small End Dia. (in.)	Large End Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
7/0	.0497	.0666	13/16	1-13/16	**CA5470**	Price	**CA5370**	Price	**-**	-
6/0	.0611	.0806	15/16	1-15/16	**CA5460**	Price	**CA5360**	Price	**CA5160**	Price
5/0	.0719	.0966	1-3/16	2-3/16	**CA5450**	Price	**CA5350**	Price	**CA5150**	Price
4/0	.0869	.1142	1-5/16	2-5/16	**CA5440**	Price	**CA5340**	Price	**CA5140**	Price
3/0	.1029	.1302	1-5/16	2-5/16	**CA5430**	Price	**CA5330**	Price	**CA5130**	Price
2/0	.1137	.1462	1-9/16	2-9/16	**CA5420**	Price	**CA5320**	Price	**CA5120**	Price
0	.1287	.1638	1-11/16	2-15/16	**CA540**	Price	**CA530**	Price	**CA510**	Price
1	.1447	.1798	1-11/16	2-15/16	**CA541**	Price	**CA531**	Price	**CA511**	Price
2	.1605	.2008	1-15/16	3-3/16	**CA542**	Price	**CA532**	Price	**CA512**	Price
3	.1813	.2294	2-5/16	3-11/16	**CA543**	Price	**CA533**	Price	**CA513**	Price
4	.2071	.2604	2-9/16	4-1/16	**CA544**	Price	**CA534**	Price	**CA514**	Price
5	.2409	.2994	2-13/16	4-5/16	**CA545**	Price	**CA535**	Price	**CA515**	Price
6	.2773	.3540	3-11/16	5-7/16	**CA546**	Price	**CA536**	Price	**CA516**	Price
7	.3297	.4220	4-7/16	6-5/16	**CA547**	Price	**CA537**	Price	**CA517**	Price
8	.3971	.5050	5-3/16	7-3/16	**CA548**	Price	**CA538**	Price	**CA518**	Price
9	.4805	.6066	6-1/16	8-5/16	**CA549**	Price	**CA539**	Price	**CA519**	Price
10	.5799	.7216	6-13/16	9-5/16	**CA5410**	Price	**CA5310**	Price	**CA5110**	Price
11	.7060	.8780	8-1/4	11-1/4	**-**	-	**CA5311**	Price	**CA5111**	Price
12	.8420	1.0500	10	13-5/8	**-**	-	**CA5312**	Price	**CA5112**	Price
13	1.0090	1.2590	12	16	**-**	-	**CA5313**	Price	**CA5113**	Price
14	1.2500	1.5420	14	18-1/4	**-**	-	**CA5314**	Price	**CA5114**	Price

PROCUT Taper Pin Reamer Sets

High Speed Steel

	Spiral Flute		Straight Flute	
Sets In Vinyl Roll Pouch	Order No.	Price	Order No.	Price
#0 thru #5	**CA53TPR6SP**	Price	**CA51TPR6ST**	Price
#0 thru #10	**CA53TPR11SP**	Price	**CA51TPR11ST**	Price

Metric Hand Reamers

High Speed Steel • Straight Flute



Size (mm)	Flute Length (mm)	OAL (mm)	Order No.	Price
6	47	93	**BM50M6**	Price
8	58	115	**BM50M8**	Price
10	66	133	**BM50M10**	Price
12	76	152	**BM50M12**	Price
16	87	175	**BM50M16**	Price
20	100	201	**BM50M20**	Price

PROCUT Morse Taper Reamers

High Speed Steel • Straight Shank or Taper Shank • Finishing or Roughing

Finishing Reamers

- Are used to size & smooth holes
- For removal of nicks & burrs from machine spindles

Roughing Reamers

- Designed for heavy stock removal
- Used to start forming tapers in straight holes



Shank Type - Straight Shank								
					Finishing		Roughing	
MT Size	Small End Dia.	Large End Dia.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
0 MT	.2500	.3670	2-1/4	3-3/4	**CB540**	Price	**CB580**	Price
1 MT	.3674	.5170	3	5	**CB541**	Price	**CB581**	Price
2 MT	.5690	.7450	3-1/2	6	**CB542**	Price	**CB582**	Price
3 MT	.7748	.9884	4-1/4	7-1/4	**CB543**	Price	**CB583**	Price
4 MT	1.0167	1.2893	5-1/4	8-1/2	**CB544**	Price	**CB584**	Price
5 MT	1.4717	1.7990	6-1/4	9-3/4	**CB545**	Price	**CB585**	Price
6 MT	2.1120	2.5550	8-1/2	12-1/4	**CB546**	Price	-	-

Shank Type - Taper Shank								
					Finishing		Roughing	
MT Size	Small End Dia.	Large End Dia.	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
0 MT	.2500	.3670	2-1/4	5-11/32	**CB550**	Price	**CB590**	Price
1 MT	.3674	.5170	3	6-3/16	**CB551**	Price	-	-
2 MT	.5690	.7450	3-1/2	7-3/8	**CB552**	Price	**CB592**	Price
3 MT	.7748	.9884	4-1/4	8-7/8	**CB553**	Price	**CB593**	Price
4 MT	1.0167	1.2893	5-1/4	10-7/8	**CB554**	Price	**CB594**	Price
5 MT	1.4717	1.7990	6-1/4	13-1/8	**CB555**	Price	-	-

PROCUT Brown & Sharpe Taper Reamers

Finishing Reamers • High Speed Steel • Straight Shank Straight Flute



Size (in.)	Small End Dia.	Large End Dia.	Flute Length (in.)	OAL (in.)	Order No.	Price
1 B&S	.1974	.3176	2-7/8	4-3/4	**CB611**	Price
2 B&S	.2474	.3781	3-1/8	5-1/8	**CB612**	Price
3 B&S	.3099	.4510	3-3/8	5-1/2	**CB613**	Price
4 B&S	.3474	.5017	3-11/16	5-7/8	**CB614**	Price
5 B&S	.4474	.6145	4	6-3/8	**CB615**	Price
6 B&S	.4974	.6808	4-3/8	6-7/8	**CB616**	Price
7 B&S	.5974	.8011	4-7/8	7-1/2	**CB617**	Price
8 B&S	.7474	.9770	5-1/2	8-1/8	**CB618**	Price
9 B&S	.8974	1.1530	6-1/8	8-7/8	**CB619**	Price
10 B&S	1.0420	1.3370	6-7/8	9-3/4	**CB6110**	Price
12 B&S	1.5000	1.8440	8-1/4	11-3/8	**CB6112**	Price

Adjustable Blade Reamer Sets

High Speed Steel

- In fitted case



Set Range	No. of Pieces	Order No.	Price
1/4" thru 15/32"	7	**BP50ARS7**	Price
15/32" thru 1-1/16"	8	**BP50ARS8**	Price
15/32" thru 1-1/2"	11	**BP50ARS11**	Price

WORLD CLASS QUALITY Adjustable Blade Reamers

High Speed Steel

- Reamers expand by loosening one adjusting nut and tightening the other
- All adjustable blade hand reamers have 6 blades which may be reground or replaced



Price		Blades		Reamers	
Size Range (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/4 - 9/32	3-1/4	**BP518A**	Price	**BP508A**	Price
9/32 - 5/16	3-1/2	**BP517A**	Price	**BP507A**	Price
5/16 - 11/32	4-1/8	**BP516A**	Price	**BP506A**	Price
11/32 - 3/8	4-3/8	**BP515A**	Price	**BP505A**	Price
3/8 - 13/32	4-3/4	**BP514A**	Price	**BP504A**	Price
13/32 - 7/16	5	**BP513A**	Price	**BP503A**	Price
7/16 - 15/32	5-1/4	**BP512A**	Price	**BP502A**	Price
15/32 - 17/32	5-1/2	**BP51A**	Price	**BP50A**	Price
17/32 - 19/32	5-3/4	**BP51B**	Price	**BP50B**	Price
19/32 - 21/32	6-1/2	**BP51C**	Price	**BP50C**	Price
21/32 - 23/32	6-3/4	**BP51D**	Price	**BP50D**	Price
23/32 - 25/32	7	**BP51E**	Price	**BP50E**	Price
25/32 - 27/32	7-3/8	**BP51F**	Price	**BP50F**	Price
27/32 - 15/16	8	**BP51G**	Price	**BP50G**	Price
15/16 - 1-1/16	9	**BP51H**	Price	**BP50H**	Price
1-1/16 - 1-3/16	10	**BP51I**	Price	**BP50I**	Price
1-3/16 - 1-11/32	11	**BP51J**	Price	**BP50J**	Price
1-11/32 - 1-1/2	12	**BP51K**	Price	**BP50K**	Price
1-1/2 - 1-13/16	14	**BP51L**	Price	**BP50L**	Price
1-13/16 - 2-7/32	16	**BP51M**	Price	**BP50M**	Price
2-7/32 - 2-3/4	18	**BP51N**	Price	**BP50N**	Price
2-3/4 - 3-11/32	20	**BP51O**	Price	**BP50O**	Price

PROCUT Bridge Reamers

High Speed Steel • Taper Shank

Spiral Flute



Straight Flute



- For use in structural iron or steel, bridgework and ship construction where extreme accuracy is not required
- Pilot type points for easy entry in out-of-line holes often encountered in structural work

					Spiral Flute		Straight Flute	
Full Size (in.)	Approx. Point Size (in.)	Flute Length (in.)	OAL (in.)	Taper Shank	Order No.	Price	Order No.	Price
13/32	7/32	4-3/8	8-1/4	2 MT	**BL51013**	Price	**BL50013**	Price
7/16	17/64	4-3/8	8-1/4	2 MT	**BL51014**	Price	**BL50014**	Price
15/32	17/64	5-1/8	9	2 MT	**BL51015**	Price	**BL50015**	Price
1/2	5/16	5-1/8	9	2 MT	**BL51016**	Price	**BL50016**	Price
17/32	5/16	5-1/8	9	2 MT	**BL51017**	Price	**BL50017**	Price
9/16	3/8	5-1/8	9	2 MT	**BL51018**	Price	**BL50018**	Price
5/8	25/64	6-1/8	10	2 MT	**BL51020**	Price	**BL50020**	Price
21/32	25/64	6-1/8	10	2 MT	-	-	**BL50021**	Price
11/16	13/32	7-1/8	11-3/4	3 MT	**BL51022**	Price	**BL50022**	Price
3/4	15/32	7-3/8	12	3 MT	**BL51024**	Price	**BL50024**	Price
13/16	35/64	7-3/8	12	3 MT	**BL51026**	Price	**BL50026**	Price
27/32	9/16	7-3/8	12	3 MT	-	-	**BL50027**	Price
7/8	39/64	7-3/8	12	3 MT	**BL51028**	Price	**BL50028**	Price
29/32	41/64	7-3/8	12	3 MT	-	-	**BL50029**	Price
15/16	43/64	7-3/8	12	3 MT	**BL51030**	Price	**BL50030**	Price

Construction Taper Reamers

High Speed Steel • Left Hand Spiral
Fast Helix, 1-1/2" Shank Length



- Fast helix for better hole finish
- Generous taper for ease in hole entry
- One inch long full reamer diameter
- Backtaper from full reamer diameter eliminates hole binding
- Safety stop flange prevents tool run through

			Alvord Polk		Quality Import	
Size (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price
3/8	3/8	5	**BL5400750**	Price	**BL55024**	Price
7/16	7/16	5-1/4	**BL5400751**	Price	**BL55028**	Price
1/2	1/2	5-15/16	**BL5400752**	Price	**BL55032**	Price
9/16	1/2	6-1/4	**BL5400757**	Price	**BL55036**	Price
5/8	1/2	6-9/16	**BL5400753**	Price	**BL55040**	Price
11/16	1/2	7	**BL5400758**	Price	**BL55044**	Price
3/4	1/2	7	**BL5400754**	Price	**BL55048**	Price
13/16	1/2	7-1/4	**BL5400759**	Price	**BL55052**	Price
7/8	1/2	7-1/4	**BL5400755**	Price	**BL55056**	Price
15/16	1/2	7-1/4	**BL5400760**	Price	**BL55060**	Price
1	1/2	7-1/4	**BL5400756**	Price	**BL55100**	Price
1-1/16	1/2	7-1/4	**BL5400761**	Price	**BL55104**	Price
1-1/8	1/2	7-1/4	**BL5400762**	Price	-	-
1-3/16	1/2	7-1/4	**BL5400763**	Price	-	-
1-1/4	1/2	7-1/2	**BL5400764**	Price	-	-
1-5/16	1/2	7-1/2	**BL5400765**	Price	-	-
1-3/8	1/2	7-1/2	**BL5400766**	Price	-	-
1-7/16	1/2	7-1/2	**BL5400767**	Price	-	-
1-1/2	1/2	7-1/2	**BL5400768**	Price	-	-

MADE IN THE USA Repairmen's Taper Reamers



High Speed Steel • Straight Flute

Shank Type - Round Shank							
Point Dia. (in.)	Max. Dia. (in.)	Flute Length (in.)	OAL (in.)	Shank Dia. (in.)	Flute End Style	Order No.	Price
1/8	1/2	3-5/8	5-9/16	3/8	60° Point	**BL5404013**	Price
3/8	1	4-1/2	6-1/2	1/2	-	**BL5404014**	Price

Shank Type - Taper Bit Brace Shank						
Point Dia. (in.)	Max. Dia. (in.)	Flute Length (in.)	OAL (in.)	Flute End Style	Order No.	Price
1/8	1/2	3-5/8	5-9/16	60° Point	**BL5404010**	Price
3/8	1	4-1/2	6-1/2	-	**BL5404011**	Price

Shank Type - T-Handle Shank				
Point Dia. (in.)	Max. Dia. (in.)	Flute Length (in.)	Order No.	Price
1/8	1/2	3-5/8	**BL5404001**	Price
1/8	3/8	3-5/8	**BL5404000**	Price
3/8	3/4	3-5/8	**BL5404002**	Price

					Spiral Flute		Straight Flute	
Full Size (in.)	Approx. Point Size (in.)	Flute Length (in.)	OAL (in.)	Taper Shank	Order No.	Price	Order No.	Price
1	47/64	7-3/8	12	3 MT	**BL51100**	Price	**BL50100**	Price
1-1/16	13/16	7-3/8	12	3 MT	**BL51102**	Price	**BL50102**	Price
1-1/8	55/64	7-3/8	12	3 MT	**BL51104**	Price	**BL50104**	Price
1-3/16	59/64	7-3/8	12	3 MT	**BL51106**	Price	**BL50106**	Price
1-1/4	63/64	7-3/8	13	4 MT	**BL51108**	Price	**BL50108**	Price
1-5/16	1-1/16	7-3/8	13	4 MT	**BL51110**	Price	**BL50110**	Price
1-3/8	1-1/8	7-3/8	13	4 MT	**BL51112**	Price	**BL50112**	Price
1-7/16	1-1/8	7-3/8	13	4 MT	**BL51114**	Price	**BL50114**	Price
1-1/2	1-1/4	7-3/8	13	4 MT	**BL51116**	Price	**BL50116**	Price
1-9/16	1-1/4	7-3/8	13	4 MT	**BL51118**	Price	-	-
1-5/8	1-1/4	7-3/8	13	4 MT	**BL51120**	Price	-	-
1-3/4	1-7/16	7-3/8	13	4 MT	**BL51124**	Price	-	-
1-13/16	1-7/16	7-3/8	13	4 MT	**BL51126**	Price	-	-
1-15/16	1-1/2	7-3/8	13	4 MT	**BL51130**	Price	-	-
2	1-3/4	7-3/8	13	4 MT	**BL51200**	Price	-	-

Carbide Tipped Shell Reamers

Straight Flute



Size (in.)	Hole Size (in.)	OAL (in.)	Fits Arbor No.	Order No.	Price
3/4	3/8	2-1/4	4	**BT50048**	Price
13/16	1/2	2-1/2	5	**BT50052**	Price
7/8	1/2	2-1/2	5	**BT50056**	Price
15/16	1/2	2-1/2	5	**BT50060**	Price
1	1/2	2-1/2	5	**BT50100**	Price
1-1/16	5/8	2-3/4	6	**BT50104**	Price
1-1/8	5/8	2-3/4	6	**BT50108**	Price
1-3/16	5/8	2-3/4	6	**BT50112**	Price
1-1/4	5/8	2-3/4	6	**BT50116**	Price
1-5/16	3/4	3	7	**BT50120**	Price
1-3/8	3/4	3	7	**BT50124**	Price
1-7/16	3/4	3	7	**BT50128**	Price
1-1/2	3/4	3	7	**BT50132**	Price
1-9/16	3/4	3	7	**BT50136**	Price
1-5/8	3/4	3	7	**BT50140**	Price
1-11/16	1	3-1/2	8	**BT50144**	Price
1-3/4	1	3-1/2	8	**BT50148**	Price
1-13/16	1	3-1/2	8	**BT50152**	Price
1-7/8	1	3-1/2	8	**BT50156**	Price
1-15/16	1	3-1/2	8	**BT50160**	Price
2	1	3-1/2	8	**BT50200**	Price
2-1/16	1-1/4	3-3/4	9	**BT50204**	Price
2-1/8	1-1/4	3-3/4	9	**BT50208**	Price
2-3/16	1-1/4	3-3/4	9	**BT50212**	Price
2-1/4	1-1/4	3-3/4	9	**BT50216**	Price
2-5/16	1-1/4	3-3/4	9	**BT50220**	Price
2-3/8	1-1/4	3-3/4	9	**BT50224**	Price
2-7/16	1-1/4	3-3/4	9	**BT50228**	Price
2-1/2	1-1/4	3-3/4	9	**BT50232**	Price
2-5/8	1-1/2	4	10	**BT50240**	Price
2-11/16	1-1/2	4	10	**BT50244**	Price
2-3/4	1-1/2	4	10	**BT50248**	Price
2-13/16	1-1/2	4	10	**BT50252**	Price
2-7/8	1-1/2	4	10	**BT50256**	Price
2-15/16	1-1/2	4	10	**BT50260**	Price

PROCUT Shell Reamers

High Speed Steel • Straight and Spiral Flute


Spiral Flute


Straight Flute

- Designed as sizing or finishing reamers and are held on an arbor with driving lugs
- Holes in these reamers are tapered 1/8" per foot

				Spiral Flute		Straight Flute	
Size (in.)	Hole Size (in.)	Fits Arbor No.	OAL (in.)	Order No.	Price	Order No.	Price
13/16	1/2	5	2-1/2	-	-	**BS50052**	Price
7/8	1/2	5	2-1/2	**BS51056**	Price	**BS50056**	Price
15/16	1/2	5	2-1/2	**BS51060**	Price	**BS50060**	Price
1	1/2	5	2-1/2	**BS51100**	Price	**BS50100**	Price
1-1/16	5/8	6	2-3/4	**BS51104**	Price	**BS50104**	Price
1-1/8	5/8	6	2-3/4	**BS51108**	Price	**BS50108**	Price
1-3/16	5/8	6	2-3/4	**BS51112**	Price	**BS50112**	Price
1-1/4	5/8	6	2-3/4	**BS51116**	Price	**BS50116**	Price
1-5/16	3/4	7	3	**BS51120**	Price	**BS50120**	Price
1-3/8	3/4	7	3	**BS51124**	Price	**BS50124**	Price
1-7/16	3/4	7	3	**BS51128**	Price	**BS50128**	Price
1-1/2	3/4	7	3	**BS51132**	Price	**BS50132**	Price
1-9/16	3/4	7	3	**BS51136**	Price	**BS50136**	Price
1-5/8	3/4	7	3	**BS51140**	Price	**BS50140**	Price
1-11/16	1	8	3-1/2	**BS51144**	Price	**BS50144**	Price
1-3/4	1	8	3-1/2	**BS51148**	Price	**BS50148**	Price
1-13/16	1	8	3-1/2	**BS51152**	Price	**BS50152**	Price
1-15/16	1	8	3-1/2	**BS51160**	Price	**BS50160**	Price
1-7/8	1	8	3-1/2	**BS51156**	Price	**BS50156**	Price
2	1	8	3-1/2	**BS51200**	Price	**BS50200**	Price

				Spiral Flute		Straight Flute	
Size (in.)	Hole Size (in.)	Fits Arbor No.	OAL (in.)	Order No.	Price	Order No.	Price
2-1/16	1-1/4	9	3-3/4	**BS51204**	Price	**BS50204**	Price
2-1/8	1-1/4	9	3-3/4	**BS51208**	Price	**BS50208**	Price
2-3/16	1-1/4	9	3-3/4	**BS51212**	Price	**BS50212**	Price
2-1/4	1-1/4	9	3-3/4	**BS51216**	Price	**BS50216**	Price
2-5/16	1-1/4	9	3-3/4	**BS51220**	Price	**BS50220**	Price
2-3/8	1-1/4	9	3-3/4	**BS51224**	Price	**BS50224**	Price
2-7/16	1-1/4	9	3-3/4	**BS51228**	Price	**BS50228**	Price
2-1/2	1-1/4	9	3-3/4	**BS51232**	Price	**BS50232**	Price
2-9/16	1-1/2	10	4	**BS51236**	Price	**BS50236**	Price
2-5/8	1-1/2	10	4	**BS51240**	Price	**BS50240**	Price
2-11/16	1-1/2	10	4	**BS51244**	Price	**BS50244**	Price
2-3/4	1-1/2	10	4	**BS51248**	Price	**BS50248**	Price
2-13/16	1-1/2	10	4	**BS51252**	Price	**BS50252**	Price
2-15/16	1-1/2	10	4	**BS51260**	Price	**BS50260**	Price
2-7/8	1-1/2	10	4	**BS51256**	Price	**BS50256**	Price
3	1-1/2	10	4	**BS51300**	Price	**BS50300**	Price
3-1/16	1-3/4	11	4-1/2	**BS51304**	Price	**BS50304**	Price
3-1/8	1-3/4	11	4-1/2	**BS51308**	Price	**BS50308**	Price
3-3/16	1-3/4	11	4-1/2	**BS51312**	Price	**BS50312**	Price
3-1/4	1-3/4	11	4-1/2	**BS51316**	Price	**BS50316**	Price
3-5/16	1-3/4	11	4-1/2	**BS51320**	Price	**BS50320**	Price
3-3/8	1-3/4	11	4-1/2	**BS51324**	Price	**BS50324**	Price
3-7/16	1-3/4	11	4-1/2	**BS51328**	Price	**BS50328**	Price
3-1/2	1-3/4	11	4-1/2	**BS51332**	Price	**BS50332**	Price
3-9/16	2	12	5	**BS51336**	Price	**BS50336**	Price
3-5/8	2	12	5	**BS51340**	Price	**BS50340**	Price
3-11/16	2	12	5	-	-	**BS50344**	Price
3-3/4	2	12	5	-	-	**BS50348**	Price
3-7/8	2	12	5	**BS51356**	Price	-	-
4	2	12	5	**BS51400**	Price	**BS50400**	Price

Carbide Tipped Chucking Reamers

Straight Shanks STD & Flute Full Length for Steel



Taper Shank



- Carbide tips brazed to one-piece hardened tool steel bodies
- Cutting diameter tolerance +.0003" -.0000"
- For general reaming of steel, cast iron, non-ferrous metals, plastics and non-metals
- Reamers for steel have a special cutting geometry; positive radial rake (behind center) narrow circular lands; minimum back taper & longer flutes for straighter holes

				Full Length Straight Shank for Steel			STD Straight Shank			Taper Shank		
Size (in.)	No. of Flutes	Flute Length (in.)	OAL (in.)	Shank Size (in.)	Order No.	Price	Shank Size (in.)	Order No.	Price	Shank Size (in.)	Order No.	Price
3/16	4	1-1/8	4-1/2	.1795 - .1805	**BF50248006**	Price	11/64	**BF50012**	Price	-	**-**	-
7/32	4	1-1/4	5	.2065 - .2075	**BF50248007**	Price	13/64	**BF50014**	Price	1 MT	**BF51014**	Price
1/4	4	1-1/2	6	.2395 - .2405	**BF50248008**	Price	15/64	**BF50016**	Price	1 MT	**BF51016**	Price
9/32	4	1-1/2	6	.2475 - .2485	**BF50248009**	Price	15/64	**BF50018**	Price	1 MT	**BF51018**	Price
5/16	4	1-1/2	6	.2782 - .2792	**BF50248010**	Price	9/32	**BF50020**	Price	1 MT	**BF51020**	Price
11/32	4	1-1/2	6	.2782 - .2792	**BF50248011**	Price	9/32	**BF50022**	Price	1 MT	**BF51022**	Price
3/8	4	1-3/4	7	.3095 - .3105	**BF50248012**	Price	5/16	**BF50024**	Price	1 MT	**BF51024**	Price
13/32	4	1-3/4	7	.3095 - .3105	**BF50248013**	Price	5/16	**BF50026**	Price	1 MT	**BF51026**	Price
7/16	4-6	1-3/4	7	.3720 - .3730	**BF50248014**	Price	3/8	**BF50028**	Price	1 MT	**BF51028**	Price
15/32	4-6	1-3/4	7	.3720 - .3730	**BF50248015**	Price	3/8	**BF50030**	Price	1 MT	**BF51030**	Price
1/2	6	2	8	.4345 - .4355	**BF50248016**	Price	7/16	**BF50032**	Price	1 MT	**BF51032**	Price
17/32	6	2	8	.4345 - .4355	**BF50248017**	Price	7/16	**BF50034**	Price	1 MT	**BF51034**	Price
9/16	6	2	8	.4345 - .4355	**BF50248018**	Price	7/16	**BF50036**	Price	1 MT	**BF51036**	Price
19/32	6	2	8	.4345 - .4355	**BF50248019**	Price	7/16	**BF50038**	Price	1 MT	**BF51038**	Price
5/8	6	2-1/4	9	.5605 - .5615	**BF50248020**	Price	9/16	**BF50040**	Price	2 MT	**BF51040**	Price
21/32	6	2-1/4	9	.5605 - .5615	**BF50248021**	Price	9/16	**BF50042**	Price	2 MT	**BF51042**	Price
11/16	6	2-1/4	9	.5605 - .5615	**BF50248022**	Price	9/16	**BF50044**	Price	2 MT	**BF51044**	Price
23/32	6	2-1/4	9	.5605 - .5615	**BF50248023**	Price	9/16	**BF50046**	Price	2 MT	**BF51046**	Price
3/4	6	2-1/2	9-1/2	.6230 - .6245	**BF50248024**	Price	5/8	**BF50048**	Price	2 MT	**BF51048**	Price
25/32	6	2-1/2	9-1/2	.6230 - .6245	**BF50248025**	Price	5/8	**BF50050**	Price	2 MT	**BF51050**	Price
13/16	6	2-1/2	9-1/2	.6230 - .6245	**BF50248026**	Price	5/8	**BF50052**	Price	2 MT	**BF51052**	Price
27/32	6	2-1/2	9-1/2	.6230 - .6245	**BF50248027**	Price	5/8	**BF50054**	Price	2 MT	**BF51054**	Price
7/8	6	2-5/8	10	.7480 - .7495	**BF50248028**	Price	3/4	**BF50056**	Price	2 MT	**BF51056**	Price
29/32	6	2-5/8	10	.7480 - .7495	**BF50248029**	Price	3/4	**BF50058**	Price	2 MT	**BF51058**	Price
15/16	8	2-5/8	10	.7480 - .7495	**BF50248030**	Price	3/4	**BF50060**	Price	3 MT	**BF51060**	Price
31/32	8	2-5/8	10	.7480 - .7495	**BF50248031**	Price	3/4	**BF50062**	Price	3 MT	**BF51062**	Price
1	8	2-3/4	10-1/2	.8730 - .8745	**BF50248032**	Price	7/8	**BF50100**	Price	3 MT	**BF51100**	Price
1-1/16	8	2-3/4	10-1/2	.8730 - .8745	**BF50248034**	Price	7/8	**BF50104**	Price	3 MT	**BF51104**	Price
1-1/2	8	3-1/2	12-1/2	-	**-**	-	1-1/4	**BF50132**	Price	4 MT	**BF51132**	Price
1-1/4	8	3	11-1/2	.9980 - .9995	**BF50248040**	Price	1	**BF50116**	Price	4 MT	**BF51116**	Price
1-1/8	8	2-7/8	11	.8730 - .8745	**BF50248036**	Price	7/8	**BF50108**	Price	3 MT	**BF51108**	Price
1-3/16	8	2-7/8	11	.9980 - .9995	**BF50248038**	Price	1	**BF50112**	Price	3 MT	**BF51112**	Price
1-3/8	8	3-1/4	12	-	**-**	-	1	**BF50124**	Price	4 MT	**BF51124**	Price
1-5/16	8	3	11-1/2	-	**-**	-	1	**BF50120**	Price	4 MT	**BF51120**	Price
1-7/16	8	3-1/4	12	-	**-**	-	1-1/4	**BF50128**	Price	4 MT	**BF51128**	Price

PROCUT Shell Reamer Arbors

Straight Shank



Taper Shank



				Straight Shank			Taper Shank		
Arbor No.	Arbor Dia. (in.)	Fits Shell Reamer (in.)	OAL (in.)	Shank Dia. (in.)	Order No.	Price	Taper	Order No.	Price
4	3/8	21/32 - 25/32	9	1/2	**BZ504**	Price	2 MT	**BZ514**	Price
5	1/2	13/16 - 1-1/32	9-1/2	5/8	**BZ505**	Price	2 MT	**BZ515**	Price
6	5/8	1-1/16 - 1-9/32	10	3/4	**BZ506**	Price	3 MT	**BZ516**	Price
7	3/4	1-5/16 - 1-5/8	11	7/8	**BZ507**	Price	3 MT	**BZ517**	Price
8	1	1-11/16 - 2	12	1-1/8	**BZ508**	Price	4 MT	**BZ518**	Price
9	1-1/4	2-1/16 - 2-1/2	13	1-3/8	**BZ509**	Price	4 MT	**BZ519**	Price
10	1-1/2	2-9/16 - 3	14	1-5/8	**BZ5010**	Price	5 MT	**BZ5110**	Price
11	1-3/4	3-1/16 - 3-1/2	15	2	**BZ5011**	Price	5 MT	**BZ5111**	Price
12	2	3-9/16 - 4	16	2-1/8	**BZ5012**	Price	5 MT	**BZ5112**	Price

Carbide Tipped Decimal Size Chucking Reamers

Straight Shank • Straight Flute



Range .1560" to .7505"

Diameter tolerances:

+.0003" - .0000"

For use on general reaming of steel, cast iron, non-ferrous metals, plastics and non-metals.

Size	Order No.	Price
.1560	**BF531560**	Price
.1565	**BF531565**	Price
.1580	**BF531580**	Price
.1585	**BF531585**	Price
.1595	**BF531595**	Price
.1600	**BF531600**	Price
.1610	**BF531610**	Price
.1620	**BF531620**	Price
.1625	**BF531625**	Price
.1630	**BF531630**	Price
.1635	**BF531635**	Price
.1640	**BF531640**	Price
.1650	**BF531650**	Price
.1670	**BF531670**	Price
.1680	**BF531680**	Price
.1740	**BF531740**	Price
.1750	**BF531750**	Price
.1775	**BF531775**	Price
.1840	**BF531840**	Price
.1845	**BF531845**	Price
.1860	**BF531860**	Price
.1880	**BF531880**	Price
.1890	**BF531890**	Price
.1895	**BF531895**	Price
.1900	**BF531900**	Price
.1905	**BF531905**	Price
.1910	**BF531910**	Price
.1915	**BF531915**	Price
.1920	**BF531920**	Price
.1925	**BF531925**	Price
.1930	**BF531930**	Price
.1940	**BF531940**	Price
.1950	**BF531950**	Price
.1955	**BF531955**	Price
.1960	**BF531960**	Price
.1965	**BF531965**	Price
.1970	**BF531970**	Price
.1975	**BF531975**	Price
.1980	**BF531980**	Price
.1985	**BF531985**	Price
.1990	**BF531990**	Price
.2000	**BF532000**	Price
.2005	**BF532005**	Price
.2020	**BF532020**	Price
.2030	**BF532030**	Price
.2035	**BF532035**	Price
.2040	**BF532040**	Price
.2045	**BF532045**	Price
.2050	**BF532050**	Price
.2070	**BF532070**	Price
.2090	**BF532090**	Price
.2100	**BF532100**	Price
.2110	**BF532110**	Price
.2125	**BF532125**	Price
.2130	**BF532130**	Price
.2140	**BF532140**	Price
.2150	**BF532150**	Price
.2155	**BF532155**	Price
.2160	**BF532160**	Price
.2165	**BF532165**	Price
.2170	**BF532170**	Price
.2175	**BF532175**	Price
.2180	**BF532180**	Price
.2190	**BF532190**	Price
.2195	**BF532195**	Price
.2200	**BF532200**	Price
.2205	**BF532205**	Price
.2210	**BF532210**	Price
.2215	**BF532215**	Price
.2220	**BF532220**	Price

Size	Order No.	Price
.2240	**BF532240**	Price
.2250	**BF532250**	Price
.2255	**BF532255**	Price
.2270	**BF532270**	Price
.2290	**BF532290**	Price
.2300	**BF532300**	Price
.2310	**BF532310**	Price
.2320	**BF532320**	Price
.2325	**BF532325**	Price
.2330	**BF532330**	Price
.2345	**BF532345**	Price
.2350	**BF532350**	Price
.2355	**BF532355**	Price
.2360	**BF532360**	Price
.2365	**BF532365**	Price
.2370	**BF532370**	Price
.2375	**BF532375**	Price
.2385	**BF532385**	Price
.2390	**BF532390**	Price
.2400	**BF532400**	Price
.2410	**BF532410**	Price
.2415	**BF532415**	Price
.2420	**BF532420**	Price
.2425	**BF532425**	Price
.2430	**BF532430**	Price
.2440	**BF532440**	Price
.2445	**BF532445**	Price
.2450	**BF532450**	Price
.2455	**BF532455**	Price
.2460	**BF532460**	Price
.2465	**BF532465**	Price
.2470	**BF532470**	Price
.2475	**BF532475**	Price
.2485	**BF532485**	Price
.2505	**BF532505**	Price
.2515	**BF532515**	Price
.2520	**BF532520**	Price
.2525	**BF532525**	Price
.2530	**BF532530**	Price
.2535	**BF532535**	Price
.2540	**BF532540**	Price
.2545	**BF532545**	Price
.2550	**BF532550**	Price
.2555	**BF532555**	Price
.2560	**BF532560**	Price
.2565	**BF532565**	Price
.2570	**BF532570**	Price
.2575	**BF532575**	Price
.2580	**BF532580**	Price
.2590	**BF532590**	Price
.2600	**BF532600**	Price
.2615	**BF532615**	Price
.2620	**BF532620**	Price
.2630	**BF532630**	Price
.2640	**BF532640**	Price
.2650	**BF532650**	Price
.2670	**BF532670**	Price
.2680	**BF532680**	Price
.2690	**BF532690**	Price
.2700	**BF532700**	Price
.2740	**BF532740**	Price
.2745	**BF532745**	Price
.2750	**BF532750**	Price
.2760	**BF532760**	Price
.2765	**BF532765**	Price
.2775	**BF532775**	Price
.2780	**BF532780**	Price
.2785	**BF532785**	Price
.2790	**BF532790**	Price
.2795	**BF532795**	Price

Size	Order No.	Price
.2800	**BF532800**	Price
.2805	**BF532805**	Price
.2815	**BF532815**	Price
.2820	**BF532820**	Price
.2830	**BF532830**	Price
.2840	**BF532840**	Price
.2850	**BF532850**	Price
.2860	**BF532860**	Price
.2870	**BF532870**	Price
.2880	**BF532880**	Price
.2890	**BF532890**	Price
.2905	**BF532905**	Price
.2910	**BF532910**	Price
.2920	**BF532920**	Price
.2970	**BF532970**	Price
.2990	**BF532990**	Price
.3000	**BF533000**	Price
.3020	**BF533020**	Price
.3030	**BF533030**	Price
.3050	**BF533050**	Price
.3070	**BF533070**	Price
.3075	**BF533075**	Price
.3080	**BF533080**	Price
.3085	**BF533085**	Price
.3090	**BF533090**	Price
.3100	**BF533100**	Price
.3110	**BF533110**	Price
.3130	**BF533130**	Price
.3140	**BF533140**	Price
.3145	**BF533145**	Price
.3155	**BF533155**	Price
.3160	**BF533160**	Price
.3165	**BF533165**	Price
.3170	**BF533170**	Price
.3175	**BF533175**	Price
.3180	**BF533180**	Price
.3185	**BF533185**	Price
.3190	**BF533190**	Price
.3200	**BF533200**	Price
.3210	**BF533210**	Price
.3220	**BF533220**	Price
.3225	**BF533225**	Price
.3230	**BF533230**	Price
.3240	**BF533240**	Price
.3260	**BF533260**	Price
.3270	**BF533270**	Price
.3340	**BF533340**	Price
.3350	**BF533350**	Price
.3360	**BF533360**	Price
.3380	**BF533380**	Price
.3410	**BF533410**	Price
.3420	**BF533420**	Price
.3430	**BF533430**	Price
.3435	**BF533435**	Price
.3440	**BF533440**	Price
.3450	**BF533450**	Price
.3460	**BF533460**	Price
.3470	**BF533470**	Price
.3490	**BF533490**	Price
.3500	**BF533500**	Price
.3535	**BF533535**	Price
.3550	**BF533550**	Price
.3560	**BF533560**	Price
.3600	**BF533600**	Price
.3620	**BF533620**	Price
.3630	**BF533630**	Price
.3650	**BF533650**	Price
.3660	**BF533660**	Price
.3670	**BF533670**	Price
.3700	**BF533700**	Price

Size	Order No.	Price
.3710	**BF533710**	Price
.3715	**BF533715**	Price
.3720	**BF533720**	Price
.3725	**BF533725**	Price
.3735	**BF533735**	Price
.3755	**BF533755**	Price
.3765	**BF533765**	Price
.3770	**BF533770**	Price
.3775	**BF533775**	Price
.3780	**BF533780**	Price
.3785	**BF533785**	Price
.3790	**BF533790**	Price
.3795	**BF533795**	Price
.3800	**BF533800**	Price
.3805	**BF533805**	Price
.3810	**BF533810**	Price
.3820	**BF533820**	Price
.3825	**BF533825**	Price
.3830	**BF533830**	Price
.3840	**BF533840**	Price
.3850	**BF533850**	Price
.3860	**BF533860**	Price
.3870	**BF533870**	Price
.3880	**BF533880**	Price
.3890	**BF533890**	Price
.3900	**BF533900**	Price
.3910	**BF533910**	Price
.3920	**BF533920**	Price
.3925	**BF533925**	Price
.3930	**BF533930**	Price
.3935	**BF533935**	Price
.3940	**BF533940**	Price
.3945	**BF533945**	Price
.3950	**BF533950**	Price
.3955	**BF533955**	Price
.3960	**BF533960**	Price
.3970	**BF533970**	Price
.3975	**BF533975**	Price
.3980	**BF533980**	Price
.4000	**BF534000**	Price
.4010	**BF534010**	Price
.4015	**BF534015**	Price
.4020	**BF534020**	Price
.4030	**BF534030**	Price
.4050	**BF534050**	Price
.4055	**BF534055**	Price
.4060	**BF534060**	Price
.4065	**BF534065**	Price
.4070	**BF534070**	Price
.4080	**BF534080**	Price
.4090	**BF534090**	Price
.4100	**BF534100**	Price
.4130	**BF534130**	Price
.4150	**BF534150**	Price
.4160	**BF534160**	Price
.4190	**BF534190**	Price
.4210	**BF534210**	Price
.4220	**BF534220**	Price
.4230	**BF534230**	Price
.4240	**BF534240**	Price
.4250	**BF534250**	Price
.4270	**BF534270**	Price
.4300	**BF534300**	Price
.4310	**BF534310**	Price
.4320	**BF534320**	Price
.4325	**BF534325**	Price
.4330	**BF534330**	Price
.4340	**BF534340**	Price
.4350	**BF534350**	Price

Size	Order No.	Price
.4360	**BF534360**	Price
.4380	**BF534380**	Price
.4390	**BF534390**	Price
.4395	**BF534395**	Price
.4400	**BF534400**	Price
.4410	**BF534410**	Price
.4415	**BF534415**	Price
.4420	**BF534420**	Price
.4425	**BF534425**	Price
.4430	**BF534430**	Price
.4450	**BF534450**	Price
.4460	**BF534460**	Price
.4470	**BF534470**	Price
.4490	**BF534490**	Price
.4500	**BF534500**	Price
.4560	**BF534560**	Price
.4590	**BF534590**	Price
.4600	**BF534600**	Price
.4640	**BF534640**	Price
.4660	**BF534660**	Price
.4680	**BF534680**	Price
.4700	**BF534700**	Price
.4710	**BF534710**	Price
.4715	**BF534715**	Price
.4720	**BF534720**	Price
.4725	**BF534725**	Price
.4730	**BF534730**	Price
.4735	**BF534735**	Price
.4740	**BF534740**	Price
.4745	**BF534745**	Price
.4750	**BF534750**	Price
.4760	**BF534760**	Price
.4765	**BF534765**	Price
.4780	**BF534780**	Price
.4800	**BF534800**	Price
.4810	**BF534810**	Price
.4840	**BF534840**	Price
.4860	**BF534860**	Price
.4870	**BF534870**	Price
.4900	**BF534900**	Price
.4920	**BF534920**	Price
.4930	**BF534930**	Price
.4950	**BF534950**	Price
.4960	**BF534960**	Price
.4970	**BF534970**	Price
.4975	**BF534975**	Price
.4985	**BF534985**	Price
.5005	**BF535005**	Price
.5015	**BF535015**	Price
.5020	**BF535020**	Price
.5025	**BF535025**	Price
.5030	**BF535030**	Price
.5035	**BF535035**	Price
.5040	**BF535040**	Price
.5045	**BF535045**	Price
.5050	**BF535050**	Price
.5060	**BF535060**	Price
.5070	**BF535070**	Price
.5080	**BF535080**	Price
.5090	**BF535090**	Price
.5100	**BF535100**	Price
.5605	**BF535605**	Price
.5610	**BF535610**	Price
.5615	**BF535615**	Price
.5620	**BF535620**	Price
.6245	**BF536245**	Price
.6255	**BF536255**	Price
.6275	**BF536275**	Price
.7505	**BF537505**	Price

Carbide Tipped Expansion Chucking Reamers





Straight Shank or Taper Shank

- Recommended for reaming abrasive materials
- As the diameter wears down, the reamers can be expanded many times by tightening the end adjusting screw and regrinding to its original size

NOTE: Expansion reamers should not be expanded to use at diameters larger than listed diameters nor be considered as adjustable for use in producing holes of several sizes and the expansion screw should never be loosened

				Straight Shank			Taper Shank		
Size (in.)	No. of Flutes	Flute Length (in.)	OAL (in.)	Shank Size (in.)	Order No.	Price	Shank Size (in.)	Order No.	Price
3/8	4	1	7	5/16	**BJ50024**	Price	1 MT	**BJ51024**	Price
13/32	4	1	7	5/16	**BJ50026**	Price	1 MT	**BJ51026**	Price
7/16	4	1	7	3/8	**BJ50028**	Price	1 MT	**BJ51028**	Price
15/32	4	1	7	3/8	**BJ50030**	Price	1 MT	**BJ51030**	Price
1/2	6	1	8	7/16	**BJ50032**	Price	1 MT	**BJ51032**	Price
17/32	6	1	8	7/16	**BJ50034**	Price	1 MT	**BJ51034**	Price
9/16	6	1-1/8	8	7/16	**BJ50036**	Price	1 MT	**BJ51036**	Price
19/32	6	1-1/8	8	7/16	**BJ50038**	Price	1 MT	**BJ51038**	Price
5/8	6	1-1/4	9	9/16	**BJ50040**	Price	2 MT	**BJ51040**	Price
21/32	6	1-1/4	9	9/16	**BJ50042**	Price	2 MT	**BJ51042**	Price
11/16	6	1-1/4	9	9/16	**BJ50044**	Price	2 MT	**BJ51044**	Price
23/32	6	1-1/4	9	9/16	**BJ50046**	Price	2 MT	**BJ51046**	Price
3/4	6	1-3/8	9-1/2	5/8	**BJ50048**	Price	2 MT	**BJ51048**	Price
25/32	6	1-3/8	9-1/2	5/8	**BJ50050**	Price	2 MT	**BJ51050**	Price
13/16	6	1-3/8	9-1/2	5/8	**BJ50052**	Price	2 MT	**BJ51052**	Price
27/32	6	1-1/2	9-1/2	5/8	**BJ50054**	Price	2 MT	**BJ51054**	Price

				Straight Shank			Taper Shank		
Size (in.)	No. of Flutes	Flute Length (in.)	OAL (in.)	Shank Size (in.)	Order No.	Price	Shank Size (in.)	Order No.	Price
7/8	6	1-1/2	10	3/4	**BJ50056**	Price	2 MT	**BJ51056**	Price
29/32	8	1-1/2	10	3/4	**BJ50058**	Price	2 MT	**BJ51058**	Price
15/16	8	1-1/2	10	3/4	**BJ50060**	Price	3 MT	**BJ51060**	Price
31/32	8	1-1/2	10	3/4	**BJ50062**	Price	-	**-**	-
1	8	1-5/8	10-1/2	7/8	**BJ50100**	Price	3 MT	**BJ51100**	Price
1-1/32	8	1-5/8	10-1/2	7/8	**BJ50102**	Price	3 MT	**BJ51102**	Price
1-3/32	8	1-5/8	10-1/2	7/8	**BJ50106**	Price	3 MT	**BJ51106**	Price
1-1/16	8	1-5/8	10-1/2	7/8	**BJ50104**	Price	3 MT	**BJ51104**	Price
1-1/8	8	1-3/4	11	7/8	**BJ50108**	Price	3 MT	**BJ51108**	Price
1-3/16	8	1-3/4	11	1	**BJ50112**	Price	3 MT	**BJ51112**	Price
1-1/4	8	1-7/8	11-1/2	1	**BJ50116**	Price	4 MT	**BJ51116**	Price
1-5/16	8	1-7/8	11-1/2	1	**BJ50120**	Price	4 MT	**BJ51120**	Price
1-3/8	8	2	12	1	**BJ50124**	Price	4 MT	**BJ51124**	Price
1-7/16	8	2	12	1-1/4	**BJ50128**	Price	4 MT	**BJ51128**	Price
1-1/2	8	2-1/8	12-1/2	1-1/4	**BJ50132**	Price	4 MT	**BJ51132**	Price
1-3/4	10	2-3/8	13-1/2	1-1/4	**BJ50148**	Price	-	**-**	-

TrueSize® Solid Carbide Chucking Reamers

- Solid carbide reamers can be used successfully in a broad range of ferrous metals
- In hardened steel Rc 40 or greater, solid carbide reamers are the only realistic choice
- Recommended for general purpose reaming in most materials
- Tolerances:
  3/8" and smaller +.0001" / +.0003"
  over 3/8" +.0001" / +.0004"
- Right hand cutting with straight flutes and a 45° lead cutting angle
- Well suited for ferrous metals, and for many nonferrous and nonmetallic materials
- Sizes up to .253" are 4 flute
  Sizes over .253" are 6 flute
- M.A. Ford List #272



Decimal Equiv.	Size (in.)	Flute Length (in.)	Shank Dia.	OAL (in.)	Order No.	Price
.0156	1/64	3/16	.015	1-1/2	**BG7001013**	Price
.0312	1/32	1/4	.031	1-1/2	**BG7001093**	Price
.0468	3/64	3/8	.043	1-1/2	**BG7001177**	Price
.0625	1/16	3/8	.058	1-1/2	**BG7001225**	Price
.0781	5/64	1/2	.073	1-3/4	**BG7001281**	Price
.0937	3/32	1/2	.088	2	**BG7001341**	Price
.1094	7/64	5/8	.104	2-1/4	**BG7001393**	Price
.1245	.1245	5/8	.120	2-1/4	**BG7003163**	Price
.1249	.1249	5/8	.120	2-1/4	**BG7003165**	Price
.1248	.1248	5/8	.120	2-1/4	**BG7003164**	Price
.1250	1/8	5/8	.120	2-1/4	**BG7001433**	Price
.1260	1/8 OS	5/8	.120	2-1/4	**BG7001437**	Price
.1406	9/64	3/4	.135	2-1/2	**BG7001481**	Price
.1562	5/32	3/4	.151	2-1/2	**BG7001533**	Price
.1719	11/64	7/8	.166	2-3/4	**BG7001589**	Price
.1870	3/16 DP2	7/8	.182	2-3/4	**BG7001637**	Price
.1873	3/16 DP1	7/8	.182	2-3/4	**BG7003270**	Price
.1874	3/16 US	7/8	.182	2-3/4	**BG7003271**	Price
.1875	3/16	7/8	.182	2-3/4	**BG7001641**	Price
.1885	3/16 OS	7/8	.182	2-3/4	**BG7003273**	Price
.2031	13/64	1	.198	3	**BG7001701**	Price
.2187	7/32	1	.213	3	**BG7001753**	Price
.2344	15/64	1	.229	3	**BG7001801**	Price
.2495	1/4 DP2	1	.244	3	**BG7003375**	Price
.2498	1/4 DP1	1	.244	3	**BG7003376**	Price
.2499	1/4 US	1	.244	3	**BG7003377**	Price
.2500	1/4 (E)	1	.244	3	**BG7001837**	Price
.2510	1/4 OS	1	.244	3	**BG7003380**	Price
.2656	17/64	1-1/8	.252	3-1/4	**BG7001857**	Price
.2812	9/32	1-1/8	.270	3-1/4	**BG7001881**	Price
.2968	19/64	1-1/8	.285	3-1/4	**BG7001897**	Price
.3120	5/16 DP2	1-1/8	.301	3-1/4	**BG7003434**	Price
.3123	5/16 DP1	1-1/8	.301	3-1/4	**BG7003435**	Price
.3125	5/16	1-1/8	.301	3-1/4	**BG7001905**	Price
.3124	5/16 US	1-1/8	.301	3-1/4	**BG7003436**	Price
.3135	5/16 OS	1-1/8	.301	3-1/4	**BG7003438**	Price
.3281	21/64	1-1/4	.317	3-1/2	**BG7001921**	Price
.3437	11/32	1-1/4	.332	3-1/2	**BG7001937**	Price
.3594	23/64	1-1/4	.348	3-1/2	**BG7001953**	Price
.3745	3/8 DP2	1-1/4	.363	3-1/2	**BG7003491**	Price
.3748	3/8 DP1	1-1/4	.363	3-1/2	**BG7003492**	Price
.3749	3/8 US	1-1/4	.363	3-1/2	**BG7003493**	Price
.3750	3/8	1-1/4	.363	3-1/2	**BG7001965**	Price
.3760	3/8 OS	1-1/4	.363	3-1/2	**BG7003494**	Price
.3906	25/64	1-1/4	.380	3-1/2	**BG7001977**	Price
.4062	13/32	1-1/4	.380	3-1/2	**BG7001985**	Price
.4219	27/64	1-3/8	.410	3-3/4	**BG7001991**	Price
.4370	7/16 DP2	1-3/8	.410	3-3/4	**BG7003550**	Price
.4373	7/16 DP1	1-3/8	.410	3-3/4	**BG7003551**	Price
.4375	7/16	1-3/8	.410	3-3/4	**BG7001995**	Price
.4374	7/16 US	1-3/8	.410	3-3/4	**BG7003552**	Price
.4385	7/16 OS	1-3/8	.410	3-3/4	**BG7003619**	Price
.4531	29/64	1-3/8	.440	3-3/4	**BG7001999**	Price
.4688	15/32	1-3/8	.440	3-3/4	**BG7002001**	Price
.4844	31/64	1-1/2	.470	4	**BG7002005**	Price
.4995	1/2 DP2	1-1/2	.470	4	**BG7003615**	Price
.4998	1/2 DP1	1-1/2	.470	4	**BG7003616**	Price
.4999	1/2 US	1-1/2	.470	4	**BG7003617**	Price
.5000	1/2	1-1/2	.470	4	**BG7002007**	Price
.5010	1/2 OS	1-1/2	.470	4	**BG7003618**	Price
.5156	33/64	1-1/2	.505	4	**BG7002011**	Price
.5312	17/32	1-1/2	.505	4	**BG7002013**	Price
.5469	35/64	1-1/2	.535	4	**BG7002015**	Price
.5625	9/16	1-1/2	.535	4	**BG7002019**	Price
.5781	37/64	1-3/4	.565	4	**BG7002021**	Price
.5938	19/32	1-3/4	.565	4	**BG7002025**	Price
.6094	39/64	1-3/4	.595	4	**BG7002027**	Price
.6250	5/8	1-3/4	.595	4	**BG7002029**	Price

Wire, mm sizes available

RAPIDKUT® Solid Carbide Chucking Reamers

Straight Shank • Straight Flute • Micrograin Carbide

Tolerances:
1/32" - 1/4" +.0002 -.0000"
Over 1/4" +.0003 -.0000"
4 Flutes for sizes 1/4" & smaller
6 Flutes for sizes over 1/4"



Type - Fractional Size					
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
3/64	.0469	3/8	1-1/2	**BG50003**	Price
1/16	.0625	3/8	1-1/2	**BG50004**	Price
5/64	.0781	1/2	1-3/4	**BG50005**	Price
3/32	.0938	1/2	2	**BG50006**	Price
7/64	.1094	5/8	2-1/4	**BG50007**	Price
1/8	.1250	5/8	2-1/4	**BG50008**	Price
9/64	.1406	3/4	2-1/2	**BG50009**	Price
5/32	.1562	3/4	2-1/2	**BG50010**	Price
11/64	.1719	7/8	2-3/4	**BG50011**	Price
3/16	.1875	7/8	2-3/4	**BG50012**	Price
13/64	.2031	1	3	**BG50013**	Price
7/32	.2188	1	3	**BG50014**	Price
15/64	.2344	1	3	**BG50015**	Price
1/4	.2500	1	3	**BG50016**	Price
17/64	.2656	1-1/8	3-1/4	**BG50017**	Price
9/32	.2812	1-1/8	3-1/4	**BG50018**	Price
19/64	.2969	1-1/8	3-1/4	**BG50019**	Price
5/16	.3125	1-1/8	3-1/4	**BG50020**	Price
21/64	.3281	1-1/4	3-1/2	**BG50021**	Price
11/32	.3438	1-1/4	3-1/2	**BG50022**	Price
23/64	.3594	1-1/4	3-1/2	**BG50023**	Price
3/8	.3750	1-1/4	3-1/2	**BG50024**	Price
13/32	.4062	1-1/2	4	**BG50026**	Price
7/16	.4375	1-1/2	4	**BG50028**	Price
15/32	.4688	1-1/2	4	**BG50030**	Price
1/2	.5000	1-1/2	4	**BG50032**	Price

Type - Letter Size					
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
A	.2340	1	3	**BG50201**	Price
B	.2380	1	3	**BG50202**	Price
C	.2420	1	3	**BG50203**	Price
D	.2460	1	3	**BG50204**	Price
E	.2500	1	3	**BG50205**	Price
F	.2570	1	3	**BG50206**	Price
G	.2610	1	3	**BG50207**	Price
H	.2660	1-1/8	3-1/4	**BG50208**	Price
I	.2720	1-1/8	3-1/4	**BG50209**	Price
J	.2770	1-1/8	3-1/4	**BG50210**	Price
K	.2810	1-1/8	3-1/4	**BG50211**	Price
L	.2900	1-1/8	3-1/4	**BG50212**	Price
M	.2950	1-1/8	3-1/4	**BG50213**	Price
N	.3020	1-1/8	3-1/4	**BG50214**	Price
O	.3160	1-1/8	3-1/4	**BG50215**	Price
P	.3230	1-1/8	3-1/4	**BG50216**	Price
Q	.3320	1-1/4	3-1/2	**BG50217**	Price
R	.3390	1-1/4	3-1/2	**BG50218**	Price
S	.3480	1-1/4	3-1/2	**BG50219**	Price
T	.3580	1-1/4	3-1/2	**BG50220**	Price
U	.3680	1-1/4	3-1/2	**BG50221**	Price
V	.3770	1-1/4	3-1/2	**BG50222**	Price
W	.3860	1-1/4	3-1/2	**BG50223**	Price
X	.3970	1-1/4	3-1/2	**BG50224**	Price
Y	.4040	1-1/4	3-1/2	**BG50225**	Price
Z	.4130	1-1/2	4	**BG50226**	Price

Type - Wire Gage Size					
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
1	.2280	1	3	**BG50101**	Price
2	.2210	1	3	**BG50102**	Price
3	.2130	1	3	**BG50103**	Price
4	.2090	1	3	**BG50104**	Price

Type - Wire Gage Size					
Size	Decimal Equiv.	Flute Length (in.)	OAL (in.)	Order No.	Price
5	.2055	1	3	**BG50105**	Price
6	.2040	1	3	**BG50106**	Price
7	.2010	1	3	**BG50107**	Price
8	.1990	7/8	2-3/4	**BG50108**	Price
9	.1960	7/8	2-3/4	**BG50109**	Price
10	.1935	7/8	2-3/4	**BG50110**	Price
11	.1910	7/8	2-3/4	**BG50111**	Price
12	.1890	7/8	2-3/4	**BG50112**	Price
13	.1850	7/8	2-3/4	**BG50113**	Price
14	.1820	7/8	2-3/4	**BG50114**	Price
15	.1800	7/8	2-3/4	**BG50115**	Price
16	.1770	7/8	2-3/4	**BG50116**	Price
17	.1730	7/8	2-3/4	**BG50117**	Price
18	.1695	7/8	2-3/4	**BG50118**	Price
19	.1660	7/8	2-3/4	**BG50119**	Price
20	.1610	7/8	2-3/4	**BG50120**	Price
21	.1590	3/4	2-1/2	**BG50121**	Price
22	.1570	3/4	2-1/2	**BG50122**	Price
23	.1540	3/4	2-1/2	**BG50123**	Price
24	.1520	3/4	2-1/2	**BG50124**	Price
25	.1495	3/4	2-1/2	**BG50125**	Price
26	.1470	3/4	2-1/2	**BG50126**	Price
27	.1440	3/4	2-1/2	**BG50127**	Price
28	.1405	3/4	2-1/2	**BG50128**	Price
29	.1360	3/4	2-1/2	**BG50129**	Price
30	.1285	5/8	2-1/4	**BG50130**	Price
31	.1200	5/8	2-1/4	**BG50131**	Price
32	.1160	5/8	2-1/4	**BG50132**	Price
33	.1130	5/8	2-1/4	**BG50133**	Price
34	.1110	5/8	2-1/4	**BG50134**	Price
35	.1100	5/8	2-1/4	**BG50135**	Price
36	.1065	5/8	2-1/4	**BG50136**	Price
37	.1040	5/8	2-1/4	**BG50137**	Price
38	.1015	5/8	2-1/4	**BG50138**	Price
39	.0995	5/8	2-1/4	**BG50139**	Price
40	.0980	1/2	2	**BG50140**	Price
41	.0960	1/2	2	**BG50141**	Price
42	.0935	1/2	2	**BG50142**	Price
43	.0890	1/2	2	**BG50143**	Price
44	.0860	1/2	2	**BG50144**	Price
45	.0820	1/2	2	**BG50145**	Price
46	.0810	1/2	1-3/4	**BG50146**	Price
47	.0785	1/2	1-3/4	**BG50147**	Price
48	.0760	1/2	1-3/4	**BG50148**	Price
49	.0730	1/2	1-3/4	**BG50149**	Price
50	.0700	1/2	1-3/4	**BG50150**	Price
51	.0670	3/8	1-1/2	**BG50151**	Price
52	.0635	3/8	1-1/2	**BG50152**	Price
53	.0595	3/8	1-1/2	**BG50153**	Price
54	.0550	3/8	1-1/2	**BG50154**	Price
55	.0520	3/8	1-1/2	**BG50155**	Price
56	.0465	3/8	1-1/2	**BG50156**	Price
57	.0430	3/8	1-1/2	**BG50157**	Price
58	.0420	3/8	1-1/2	**BG50158**	Price
59	.0410	1/4	1-1/8	**BG50159**	Price
60	.0400	1/4	1-1/8	**BG50160**	Price
61	.0390	1/4	1-1/8	**BG50161**	Price
62	.0380	1/4	1-1/8	**BG50162**	Price
63	.0370	1/4	1-1/8	**BG50163**	Price
64	.0360	1/4	1-1/8	**BG50164**	Price
65	.0350	1/4	1-1/8	**BG50165**	Price

RAPIDKUT® High Speed Steel & Solid Carbide Chucking Reamers - Decimal Size



Straight Shank • Straight Flute

Tolerances:
1/32" - 1/4" +.0003-.0000
Over 1/4" +.0004-.0000
4 Flutes for sizes 1/4" & smaller
6 Flutes for sizes over 1/4"

	Solid Carbide		High Speed Steel	
Size (in.)	Order No.	Price	Order No.	Price
.0300	BG5010300	Price	BD560300	Price
.0305	-	-	BD560305	Price
.0315	BG5010315	Price	BD560315	Price
.0325	BG5010325	Price	BD560325	Price
.0335	BG5010335	Price	-	-
.0340	BG5010340	Price	BD560340	Price
.0345	BG5010345	Price	BD560345	Price
.0355	BG5010355	Price	BD560355	Price
.0365	BG5010365	Price	BD560365	Price
.0375	BG5010375	Price	BD560375	Price
.0385	BG5010385	Price	-	-
.0395	BG5010395	Price	-	-
.0405	BG5010405	Price	BD560405	Price
.0415	BG5010415	Price	BD560415	Price
.0425	BG5010425	Price	BD560425	Price
.0435	BG5010435	Price	BD560435	Price
.0440	BG5010440	Price	-	-
.0445	BG5010445	Price	-	-
.0450	BG5010450	Price	BD560450	Price
.0455	BG5010455	Price	-	-
.0460	BG5010460	Price	BD560460	Price
.0470	BG5010470	Price	BD560470	Price
.0475	BG5010475	Price	BD560475	Price
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.0485	BG5010485	Price	BD560485	Price
.0490	BG5010490	Price	BD560490	Price
.0495	BG5010495	Price	BD560495	Price
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.0505	BG5010505	Price	BD560505	Price
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.0515	BG5010515	Price	-	-
.0525	BG5010525	Price	-	-
.0530	BG5010530	Price	BD560530	Price
.0535	BG5010535	Price	-	-
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.0545	BG5010545	Price	BD560545	Price
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.0560	BG5010560	Price	BD560560	Price
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.0575	BG5010575	Price	BD560575	Price
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.0585	BG5010585	Price	-	-
.0590	BG5010590	Price	BD560590	Price
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.0605	BG5010605	Price	BD560605	Price
.0610	BG5010610	Price	BD560610	Price
.0615	BG5010615	Price	BD560615	Price
.0620	BG5010620	Price	BD560620	Price
.0622	BG501622	Price	-	-
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.0640	BG5010640	Price	BD560640	Price
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.0650	BG5010650	Price	BD560650	Price
.0655	BG5010655	Price	BD560655	Price
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.0665	BG5010665	Price	BD560665	Price
.0675	BG5010675	Price	BD560675	Price
.0680	BG5010680	Price	BD560680	Price
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.0690	BG5010690	Price	BD560690	Price
.0695	BG5010695	Price	-	-
.0705	BG5010705	Price	BD560705	Price
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.0715	BG5010715	Price	-	-
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.0735	BG5010735	Price	-	-
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.0760	-	-	BD560760	Price
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.0770	BG5010770	Price	BD560770	Price
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.0795	BG5010795	Price	BD560795	Price
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.0805	BG5010805	Price	BD560805	Price
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.0825	BG5010825	Price	-	-
.0830	BG5010830	Price	BD560830	Price
.0835	BG5010835	Price	-	-
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.0845	BG5010845	Price	BD560845	Price
.0850	BG5010850	Price	BD560850	Price
.0855	BG5010855	Price	BD560855	Price
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.0875	BG5010875	Price	BD560875	Price
.0880	BG5010880	Price	BD560880	Price
.0885	BG5010885	Price	-	-
.0895	BG5010895	Price	BD560895	Price
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.0905	BG5010905	Price	-	-
.0910	BG5010910	Price	BD560910	Price
.0915	BG5010915	Price	BD560915	Price
.0920	BG5010920	Price	BD560920	Price
.0925	BG5010925	Price	BD560925	Price
.0930	BG5010930	Price	BD560930	Price
.0933	BG501933	Price	-	-
.0937	BG501937	Price	-	-
.0940	BG5010940	Price	BD560940	Price
.0945	BG5010945	Price	BD560945	Price
.0950	BG5010950	Price	BD560950	Price
.0955	BG5010955	Price	BD560955	Price
.0965	BG5010965	Price	BD560965	Price
.0970	BG5010970	Price	BD560970	Price
.0975	BG5010975	Price	BD560975	Price
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.1010	BG5011010	Price	BD561010	Price
.1020	BG5011020	Price	BD561020	Price
.1025	BG5011025	Price	-	-
.1030	BG5011030	Price	-	-
.1035	BG5011035	Price	BD561035	Price
.1045	BG5011045	Price	BD561045	Price
.1050	BG5011050	Price	BD561050	Price
.1055	BG5011055	Price	BD561055	Price
.1060	BG5011060	Price	BD561060	Price
.1070	BG5011070	Price	BD561070	Price
.1075	BG5011075	Price	BD561075	Price
.1080	BG5011080	Price	BD561080	Price
.1085	BG5011085	Price	BD561085	Price
.1090	BG5011090	Price	BD561090	Price
.1095	BG5011095	Price	BD561095	Price
.1105	BG5011105	Price	BD561105	Price
.1115	BG5011115	Price	-	-
.1120	BG5011120	Price	-	-
.1125	BG5011125	Price	BD561125	Price
.1135	BG5011135	Price	-	-
.1140	BG5011140	Price	BD561140	Price
.1145	BG5011145	Price	-	-
.1150	BG5011150	Price	BD561150	Price
.1155	BG5011155	Price	BD561155	Price
.1160	-	-	BD561160	Price
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.1507	BG5011507	Price	-	-
.1510	BG5011510	Price	BD561510	Price
.1515	BG5011515	Price	-	-
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.1610	-	-	BD561610	Price
.1615	BG5011615	Price	-	-
.1620	BG5011620	Price	BD561620	Price
.1625	BG5011625	Price	BD561625	Price
.1630	BG5011630	Price	BD561630	Price
.1635	BG5011635	Price	BD561635	Price
.1640	BG5011640	Price	BD561640	Price
.1645	BG5011645	Price	-	-
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.1670	BG5011670	Price	BD561670	Price
.1675	BG5011675	Price	BD561675	Price
.1680	BG5011680	Price	BD561680	Price
.1685	BG5011685	Price	BD561685	Price
.1690	BG5011690	Price	BD561690	Price

(continued on next page)

RAPIDKUT® High Speed Steel & Solid Carbide Chucking Reamers - Decimal Size (cont.)



	Solid Carbide		High Speed Steel	
Size (in.)	Order No.	Price	Order No.	Price
.1700	BG5011700	Price	BD561700	Price
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.1725	BG5011725	Price	-	-
.1735	BG5011735	Price	-	-
.1740	BG5011740	Price	BD561740	Price
.1745	BG5011745	Price	-	-
.1750	BG5011750	Price	BD561750	Price
.1755	BG5011755	Price	-	-
.1760	BG5011760	Price	BD561760	Price
.1765	BG5011765	Price	BD561765	Price
.1775	BG5011775	Price	BD561775	Price
.1780	BG5011780	Price	BD561780	Price
.1785	BG5011785	Price	-	-
.1790	BG5011790	Price	BD561790	Price
.1795	BG5011795	Price	BD561795	Price
.1805	BG5011805	Price	BD561805	Price
.1810	BG5011810	Price	BD561810	Price
.1814	BG5011814	Price	-	-
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.1895	BG5011895	Price	BD561895	Price
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.1905	BG5011905	Price	BD561905	Price
.1915	BG5011915	Price	BD561915	Price
.1920	BG5011920	Price	BD561920	Price
.1925	BG5011925	Price	BD561925	Price
.1930	BG5011930	Price	BD561930	Price
.1940	BG5011940	Price	BD561940	Price
.1945	BG5011945	Price	-	-
.1950	BG5011950	Price	BD561950	Price
.1955	BG5011955	Price	BD561955	Price
.1965	BG5011965	Price	BD561965	Price
.1970	BG5011970	Price	BD561970	Price
.1975	BG5011975	Price	BD561975	Price
.1980	BG5011980	Price	BD561980	Price
.1985	BG5011985	Price	BD561985	Price
.1995	BG5011995	Price	BD561995	Price
.2000	BG5012000	Price	BD562000	Price
.2005	BG5012005	Price	BD562005	Price
.2015	BG5012015	Price	-	-
.2020	BG5012020	Price	BD562020	Price
.2025	BG5012025	Price	BD562025	Price
.2030	BG5012030	Price	BD562030	Price
.2035	BG5012035	Price	BD562035	Price
.2045	BG5012045	Price	BD562045	Price
.2050	BG5012050	Price	BD562050	Price
.2060	BG5012060	Price	-	-
.2065	BG5012065	Price	-	-
.2070	BG5012070	Price	BD562070	Price
.2075	BG5012075	Price	BD562075	Price
.2080	BG5012080	Price	BD562080	Price
.2085	BG5012085	Price	BD562085	Price
.2095	BG5012095	Price	-	-
.2100	BG5012100	Price	BD562100	Price
.2105	BG5012105	Price	BD562105	Price
.2110	BG5012110	Price	BD562110	Price
.2115	BG5012115	Price	-	-
.2120	BG5012120	Price	BD562120	Price
.2125	BG5012125	Price	BD562125	Price
.2135	BG5012135	Price	-	-
.2140	BG5012140	Price	BD562140	Price
.2145	BG5012145	Price	BD562145	Price
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.2175	BG5012175	Price	BD562175	Price
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.2180	BG5012180	Price	BD562180	Price
.2185	BG5012185	Price	BD562185	Price
.2190	BG5012190	Price	BD562190	Price
.2195	BG5012195	Price	BD562195	Price
.2200	BG5012200	Price	BD562200	Price
.2205	BG5012205	Price	BD562205	Price
.2215	BG5012215	Price	BD562215	Price
.2220	BG5012220	Price	BD562220	Price
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.2230	BG5012230	Price	BD562230	Price
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.2240	BG5012240	Price	BD562240	Price
.2245	BG5012245	Price	-	-
.2250	BG5012250	Price	BD562250	Price
.2255	BG5012255	Price	BD562255	Price
.2260	BG5012260	Price	-	-
.2265	BG5012265	Price	-	-
.2270	BG5012270	Price	BD562270	Price
.2275	BG5012275	Price	-	-
.2285	BG5012285	Price	-	-
.2290	BG5012290	Price	BD562290	Price
.2295	BG5012295	Price	-	-
.2300	BG5012300	Price	BD562300	Price
.2305	BG5012305	Price	-	-
.2310	BG5012310	Price	BD562310	Price
.2315	BG5012315	Price	BD562315	Price
.2320	BG5012320	Price	BD562320	Price
.2325	BG5012325	Price	BD562325	Price
.2330	BG5012330	Price	BD562330	Price
.2335	BG5012335	Price	-	-
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.2405	BG5012405	Price	-	-
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.2415	BG5012415	Price	BD562415	Price
.2425	BG5012425	Price	BD562425	Price
.2430	BG5012430	Price	BD562430	Price
.2435	BG5012435	Price	-	-
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.2498	BG5012498	Price	-	-
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.2505	BG5012505	Price	BD562505	Price
.2510	BG5012510	Price	BD562510	Price
.2515	BG5012515	Price	BD562515	Price
.2520	BG5012520	Price	BD562520	Price
.2525	BG5012525	Price	BD562525	Price
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.3095	-	-	BD563095	Price
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.3105	BG5013105	Price	BD563105	Price
.3110	BG5013110	Price	BD563110	Price
.3115	BG5013115	Price	BD563115	Price
.3120	BG5013120	Price	BD563120	Price
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.3135	BG5013135	Price	BD563135	Price
.3140	BG5013140	Price	BD563140	Price
.3145	BG5013145	Price	BD563145	Price
.3155	-	-	BD563155	Price
.3165	-	-	BD563165	Price
.3170	BG5013170	Price	BD563170	Price

(continued on next page)

RAPIDKUT® High Speed Steel & Solid Carbide Chucking Reamers - Decimal Size (cont.)



	Solid Carbide		High Speed Steel	
Size (in.)	Order No.	Price	Order No.	Price
.3175	-	-	BD563175	Price
.3180	BG5013180	Price	BD563180	Price
.3185	-	-	BD563185	Price
.3190	BG5013190	Price	BD563190	Price
.3200	BG5013200	Price	BD563200	Price
.3205	-	-	BD563205	Price
.3210	BG5013210	Price	BD563210	Price
.3220	BG5013220	Price	BD563220	Price
.3225	-	-	BD563225	Price
.3240	BG5013240	Price	BD563240	Price
.3245	-	-	BD563245	Price
.3250	BG5013250	Price	BD563250	Price
.3260	BG5013260	Price	BD563260	Price
.3270	BG5013270	Price	BD563270	Price
.3275	-	-	BD563275	Price
.3280	BG5013280	Price	-	-
.3285	-	-	BD563285	Price
.3290	BG5013290	Price	BD563290	Price
.3295	-	-	BD563295	Price
.3300	BG5013300	Price	BD563300	Price
.3310	BG5013310	Price	-	-
.3325	-	-	BD563325	Price
.3330	BG5013330	Price	BD563330	Price
.3340	BG5013340	Price	BD563340	Price
.3350	BG5013350	Price	BD563350	Price
.3360	BG5013360	Price	BD563360	Price
.3370	BG5013370	Price	-	-
.3380	BG5013380	Price	BD563380	Price
.3395	-	-	BD563395	Price
.3400	BG5013400	Price	BD563400	Price
.3410	BG5013410	Price	BD563410	Price
.3420	BG5013420	Price	BD563420	Price
.3425	-	-	BD563425	Price
.3430	BG5013430	Price	BD563430	Price
.3435	-	-	BD563435	Price
.3440	BG5013440	Price	BD563440	Price
.3450	BG5013450	Price	BD563450	Price
.3460	BG5013460	Price	BD563460	Price
.3470	BG5013470	Price	BD563470	Price
.3485	-	-	BD563485	Price
.3490	BG5013490	Price	BD563490	Price
.3500	BG5013500	Price	BD563500	Price
.3510	BG5013510	Price	BD563510	Price
.3520	BG5013520	Price	BD563520	Price
.3530	BG5013530	Price	BD563530	Price
.3535	-	-	BD563535	Price
.3540	BG5013540	Price	-	-
.3550	BG5013550	Price	BD563550	Price
.3555	-	-	BD563555	Price
.3560	BG5013560	Price	BD563560	Price
.3570	BG5013570	Price	BD563570	Price
.3575	-	-	BD563575	Price
.3590	BG5013590	Price	-	-
.3600	BG5013600	Price	BD563600	Price
.3610	BG5013610	Price	-	-
.3620	BG5013620	Price	BD563620	Price
.3630	BG5013630	Price	BD563630	Price
.3640	BG5013640	Price	-	-
.3650	BG5013650	Price	BD563650	Price
.3660	BG5013660	Price	BD563660	Price
.3665	-	-	BD563665	Price
.3670	BG5013670	Price	BD563670	Price
.3675	BG5013675	Price	-	-
.3690	BG5013690	Price	BD563690	Price
.3695	-	-	BD563695	Price
.3700	BG5013700	Price	BD563700	Price
.3705	-	-	BD563705	Price
.3710	BG5013710	Price	BD563710	Price
.3715	-	-	BD563715	Price
.3720	BG5013720	Price	BD563720	Price
.3725	-	-	BD563725	Price
.3730	BG5013730	Price	BD563730	Price
.3735	-	-	BD563735	Price
.3740	-	-	BD563740	Price
.3745	BG5013745	Price	BD563745	Price
.3755	BG5013755	Price	BD563755	Price
.3760	BG5013760	Price	BD563760	Price
.3765	BG5013765	Price	BD563765	Price
.3775	-	-	BD563775	Price
.3780	BG5013780	Price	-	-
9.60	-	-	BD563780	Price
.3785	-	-	BD563785	Price
.3790	BG5013790	Price	BD563790	Price
.3795	-	-	BD563795	Price
.3800	BG5013800	Price	BD563800	Price
.3805	-	-	BD563805	Price
.3810	BG5013810	Price	BD563810	Price
.3820	BG5013820	Price	BD563820	Price
.3825	-	-	BD563825	Price
.3830	BG5013830	Price	BD563830	Price
.3840	BG5013840	Price	BD563840	Price
.3850	BG5013850	Price	BD563850	Price
.3865	-	-	BD563865	Price
.3870	BG5013870	Price	BD563870	Price
.3880	BG5013880	Price	BD563880	Price
.3890	BG5013890	Price	BD563890	Price
.3895	-	-	BD563895	Price
.3900	BG5013900	Price	BD563900	Price
.3910	BG5013910	Price	BD563910	Price
.3920	BG5013920	Price	BD563920	Price
.3925	-	-	BD563925	Price
.3930	BG5013930	Price	BD563930	Price
.3935	-	-	BD563935	Price
.3940	BG5013940	Price	BD563940	Price
.3945	-	-	BD563945	Price
.3950	BG5013950	Price	BD563950	Price
.3955	-	-	BD563955	Price
.3960	BG5013960	Price	BD563960	Price
.3965	-	-	BD563965	Price
.3975	-	-	BD563975	Price
.3980	BG5013980	Price	BD563980	Price
.3990	BG5013990	Price	-	-
.4000	BG5014000	Price	BD564000	Price
.4010	BG5014010	Price	BD564010	Price
.4015	-	-	BD564015	Price
.4020	BG5014020	Price	BD564020	Price
.4030	BG5014030	Price	BD564030	Price
.4050	BG5014050	Price	BD564050	Price
.4055	-	-	BD564055	Price
.4060	BG5014060	Price	BD564060	Price
.4065	-	-	BD564065	Price
.4070	BG5014070	Price	BD564070	Price
.4080	BG5014080	Price	BD564080	Price
.4085	-	-	BD564085	Price
.4090	BG5014090	Price	BD564090	Price
.4095	-	-	BD564095	Price
.4100	BG5014100	Price	BD564100	Price
.4105	-	-	BD564105	Price
.4110	BG5014110	Price	-	-
.4120	BG5014120	Price	BD564120	Price
.4130	-	-	BD564130	Price
.4140	BG5014140	Price	BD564140	Price
.4145	-	-	BD564145	Price
.4150	BG5014150	Price	BD564150	Price
.4160	BG5014160	Price	BD564160	Price
.4170	BG5014170	Price	-	-
.4180	BG5014180	Price	BD564180	Price
.4185	-	-	BD564185	Price
.4190	BG5014190	Price	BD564190	Price
.4200	BG5014200	Price	-	-
.4210	BG5014210	Price	BD564210	Price
.4220	-	-	BD564220	Price
.4230	BG5014230	Price	BD564230	Price
.4240	BG5014240	Price	BD564240	Price
.4250	BG5014250	Price	BD564250	Price
.4260	BG5014260	Price	BD564260	Price
.4270	BG5014270	Price	BD564270	Price
.4275	-	-	BD564275	Price
.4280	BG5014280	Price	-	-
.4290	BG5014290	Price	-	-
.4300	BG5014300	Price	BD564300	Price
.4310	BG5014310	Price	BD564310	Price
.4320	BG5014320	Price	BD564320	Price
.4325	-	-	BD564325	Price
.4330	BG5014330	Price	BD564330	Price
.4335	-	-	BD564335	Price
.4340	BG5014340	Price	BD564340	Price
.4345	-	-	BD564345	Price
.4350	BG5014350	Price	BD564350	Price
.4355	BG5014355	Price	BD564355	Price
.4360	BG5014360	Price	BD564360	Price
.4365	BG5014365	Price	BD564365	Price
.4370	BG5014370	Price	BD564370	Price
.4380	BG5014380	Price	BD564380	Price
.4385	BG5014385	Price	BD564385	Price
.4390	BG5014390	Price	BD564390	Price
.4395	-	-	BD564395	Price
.4400	BG5014400	Price	BD564400	Price
.4405	-	-	BD564405	Price
.4410	BG5014410	Price	BD564410	Price
.4415	-	-	BD564415	Price
.4420	BG5014420	Price	BD564420	Price
.4425	-	-	BD564425	Price
.4430	BG5014430	Price	BD564430	Price
.4440	BG5014440	Price	BD564440	Price
.4450	BG5014450	Price	BD564450	Price
.4460	BG5014460	Price	BD564460	Price
.4470	BG5014470	Price	BD564470	Price
.4480	BG5014480	Price	BD564480	Price
.4490	BG5014490	Price	BD564490	Price
.4495	-	-	BD564495	Price
.4500	BG5014500	Price	BD564500	Price
.4510	BG5014510	Price	-	-
.4520	BG5014520	Price	-	-
.4530	BG5014530	Price	BD564530	Price
.4540	BG5014540	Price	BD564540	Price
.4545	-	-	BD564545	Price
.4550	BG5014550	Price	BD564550	Price
.4560	BG5014560	Price	BD564560	Price
.4570	BG5014570	Price	-	-
.4580	BG5014580	Price	BD564580	Price
.4590	BG5014590	Price	BD564590	Price
.4600	BG5014600	Price	BD564600	Price
.4610	BG5014610	Price	-	-
.4620	BG5014620	Price	-	-
.4630	BG5014630	Price	-	-
.4640	BG5014640	Price	BD564640	Price
.4650	BG5014650	Price	BD564650	Price
.4660	BG5014660	Price	BD564660	Price
.4670	BG5014670	Price	-	-
.4680	BG5014680	Price	BD564680	Price
.4690	BG5014690	Price	-	-
.4700	BG5014700	Price	BD564700	Price
.4705	-	-	BD564705	Price
.4710	BG5014710	Price	BD564710	Price
.4715	-	-	BD564715	Price
.4720	BG5014720	Price	BD564720	Price
.4725	-	-	BD564725	Price
.4730	BG5014730	Price	BD564730	Price
.4735	-	-	BD564735	Price
.4740	BG5014740	Price	BD564740	Price
.4745	-	-	BD564745	Price
.4750	BG5014750	Price	BD564750	Price
.4755	-	-	BD564755	Price
.4760	BG5014760	Price	BD564760	Price
.4765	-	-	BD564765	Price
.4770	BG5014770	Price	-	-
.4780	BG5014780	Price	BD564780	Price
.4790	BG5014790	Price	-	-
.4800	BG5014800	Price	BD564800	Price
.4805	BG5014805	Price	BD564805	Price
.4810	BG5014810	Price	BD564810	Price
.4820	BG5014820	Price	BD564820	Price
.4830	BG5014830	Price	-	-
.4840	BG5014840	Price	BD564840	Price
.4850	BG5014850	Price	-	-
.4860	BG5014860	Price	BD564860	Price
.4870	BG5014870	Price	BD564870	Price
.4880	BG5014880	Price	-	-
.4890	BG5014890	Price	BD564890	Price
.4900	BG5014900	Price	BD564900	Price
.4910	BG5014910	Price	BD564910	Price
.4920	-	-	BD564920	Price
.4930	BG5014930	Price	BD564930	Price
.4935	-	-	BD564935	Price
.4940	BG5014940	Price	BD564940	Price
.4950	BG5014950	Price	BD564950	Price
.4955	-	-	BD564955	Price
.4960	BG5014960	Price	BD564960	Price

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RAPIDKUT High Speed Steel & Solid Carbide Chucking Reamers - Decimal Size (cont.)



	Solid Carbide		High Speed Steel	
Size (in.)	Order No.	Price	Order No.	Price
.4965	-	-	BD564965	Price
.4970	BG5014970	Price	BD564970	Price
.4975	-	-	BD564975	Price
.4980	BG5014980	Price	BD564980	Price
.4985	-	-	BD564985	Price
.4990	BG5014990	Price	BD564990	Price
.4995	BG5014995	Price	BD564995	Price
.5005	BG5015005	Price	BD565005	Price
.5010	BG5015010	Price	BD565010	Price
.5015	BG5015015	Price	BD565015	Price
.5020	BG5015020	Price	BD565020	Price
.5025	-	-	BD565025	Price
.5030	BG5015030	Price	BD565030	Price
.5035	-	-	BD565035	Price
.5040	BG5015040	Price	BD565040	Price
.5045	-	-	BD565045	Price
.5050	BG5015050	Price	BD565050	Price
.5060	-	-	BD565060	Price
.5070	-	-	BD565070	Price
.5080	-	-	BD565080	Price
.5090	-	-	BD565090	Price
.5100	-	-	BD565100	Price
.5605	-	-	BD565605	Price
.5610	-	-	BD565610	Price
.5615	-	-	BD565615	Price
.5620	-	-	BD565620	Price
.5630	-	-	BD565630	Price
.5635	-	-	BD565635	Price
.5640	-	-	BD565640	Price
.5645	-	-	BD565645	Price
.5650	-	-	BD565650	Price
.5655	-	-	BD565655	Price

	Solid Carbide		High Speed Steel	
Size (in.)	Order No.	Price	Order No.	Price
.6220	-	-	BD566220	Price
.6225	-	-	BD566225	Price
.6230	-	-	BD566230	Price
.6235	-	-	BD566235	Price
.6240	-	-	BD566240	Price
.6245	-	-	BD566245	Price
.6255	BG5016255	Price	BD566255	Price
.6260	-	-	BD566260	Price
.6265	-	-	BD566265	Price
.6270	-	-	BD566270	Price
.6275	-	-	BD566275	Price
.6280	-	-	BD566280	Price
.6310	BG5016310	Price	-	-
.6845	-	-	BD566845	Price
.6850	-	-	BD566850	Price
.6860	-	-	BD566860	Price
.6865	-	-	BD566865	Price
.6870	-	-	BD566870	Price
.6880	-	-	BD566880	Price
.6885	-	-	BD566885	Price
.6890	-	-	BD566890	Price
.6900	-	-	BD566900	Price
.6905	-	-	BD566905	Price
.7470	-	-	BD567470	Price
.7475	-	-	BD567475	Price
.7485	-	-	BD567485	Price
.7490	-	-	BD567490	Price
.7495	-	-	BD567495	Price
.7505	-	-	BD567505	Price
.7510	-	-	BD567510	Price
.7515	-	-	BD567515	Price
.7520	-	-	BD567520	Price
.7525	-	-	BD567525	Price
.7530	-	-	BD567530	Price
.7540	-	-	BD567540	Price
.7550	-	-	BD567550	Price
.8100	-	-	BD568100	Price
.8110	-	-	BD568110	Price
.8115	-	-	BD568115	Price
.8120	-	-	BD568120	Price
.8130	-	-	BD568130	Price
.8140	-	-	BD568140	Price
.8720	-	-	BD568720	Price
.8730	-	-	BD568730	Price
.8735	-	-	BD568735	Price
.8740	-	-	BD568740	Price

	Solid Carbide		High Speed Steel	
Size (in.)	Order No.	Price	Order No.	Price
.8745	-	-	BD568745	Price
.8755	-	-	BD568755	Price
.8760	-	-	BD568760	Price
.8765	-	-	BD568765	Price
.8770	-	-	BD568770	Price
.8780	-	-	BD568780	Price
.9340	-	-	BD569340	Price
.9970	-	-	BD569970	Price
.9980	-	-	BD569980	Price
.9985	-	-	BD569985	Price
.9990	-	-	BD569990	Price
.9995	-	-	BD569995	Price
1.0005	-	-	BD5610005	Price
1.0010	-	-	BD5610010	Price
1.0015	-	-	BD5610015	Price
1.0020	-	-	BD5610020	Price
1.0025	-	-	BD5610025	Price
1.0030	-	-	BD5610030	Price
1.00mm	BG5014001	Price	-	-
1.50mm	BG50140015	Price	-	-
2.00mm	BG5014002	Price	-	-
2.50mm	BG50140025	Price	-	-
3.00mm	BG5014003	Price	-	-
3.50mm	BG50140035	Price	-	-
4.00mm	BG5014004	Price	-	-
4.50mm	BG50140045	Price	-	-
5.00mm	BG5014005	Price	-	-
5.50mm	BG50140055	Price	-	-
6.00mm	BG5014006	Price	-	-
6.50mm	BG50140065	Price	-	-
7.00mm	BG5014007	Price	-	-
7.50mm	BG50140075	Price	-	-
8.00mm	BG5014008	Price	-	-
8.50mm	BG50140085	Price	-	-
9.00mm	BG5014009	Price	-	-
9.50mm	BG50140095	Price	-	-
10.50mm	BG50140105	Price	-	-
11.00mm	BG5014011	Price	-	-
11.50mm	BG50140115	Price	-	-
12.00mm	BG5014012	Price	-	-
12.50mm	BG50140125	Price	-	-
13.00mm	BG5014013	Price	-	-
14.00mm	BG5014014	Price	-	-
15.00mm	BG5014015	Price	-	-
16.00mm	BG5014016	Price	-	-

FULLERTON Straight Shank Straight Flute Chucking Reamers

Series 1400 • Solid Carbide

- Male centers on items up to .1124 (2.86mm)
- Female centers on items over .1124 (2.86mm)
- Cutter diameter tolerance: up to .2500 +.0002/-.0000; over .2501 +.0003/-.0000
- Shank diameter tolerance: +.0005/-.0005 (+0.013mm/-0.013mm)
- 45 Degree lead angle



Size	LOC (in.)	OAL (in.)	No. of Flutes	Order No.	Price
70	3/8	1-1/2	4	FT8014001	Price
69	3/8	1-1/2	4	FT8014002	Price
68	3/8	1-1/2	4	FT8014003	Price
1/32	3/8	1-1/2	4	FT8014004	Price
67	3/8	1-1/2	4	FT8014005	Price
66	3/8	1-1/2	4	FT8014006	Price
65	3/8	1-1/2	4	FT8014007	Price
64	3/8	1-1/2	4	FT8014008	Price
63	3/8	1-1/2	4	FT8014009	Price
62	3/8	1-1/2	4	FT8014010	Price
61	3/8	1-1/2	4	FT8014011	Price
1.00	1mm	1-1/2	4	FT8014012	Price
60	3/8	1-1/2	4	FT8014013	Price
59	3/8	1-1/2	4	FT8014014	Price
58	3/8	1-1/2	4	FT8014015	Price
57	3/8	1-1/2	4	FT8014016	Price
56	3/8	1-1/2	4	FT8014017	Price
3/64	3/8	1-1/2	4	FT8014018	Price
55	3/8	1-1/2	4	FT8014019	Price
54	3/8	1-1/2	4	FT8014020	Price
1.50	1mm	1-1/2	4	FT8014022	Price
53	3/8	1-1/2	4	FT8014023	Price
1/16	3/8	1-1/2	4	FT8014024	Price
52	3/8	1-1/2	4	FT8014025	Price
51	1/2	2	4	FT8014026	Price

Size	LOC (in.)	OAL (in.)	No. of Flutes	Order No.	Price
50	1/2	2	4	FT8014027	Price
49	1/2	2	4	FT8014028	Price
48	1/2	2	4	FT8014029	Price
5/64	1/2	2	4	FT8014030	Price
47	1/2	2	4	FT8014031	Price
2.00	12mm	1-31/32	4	FT8014032	Price
46	1/2	2	4	FT8014033	Price
45	1/2	2	4	FT8014034	Price
44	1/2	2	4	FT8014035	Price
43	1/2	2	4	FT8014036	Price
42	1/2	2	4	FT8014037	Price
3/32	1/2	2	4	FT8014038	Price
41	1/2	2	4	FT8014039	Price
40	5/8	2-1/4	4	FT8014040	Price
2.50	16mm	2-1/4	4	FT8014041	Price
39	5/8	2-1/4	4	FT8014042	Price
38	5/8	2-1/4	4	FT8014043	Price
37	5/8	2-1/4	4	FT8014044	Price
36	5/8	2-1/4	4	FT8014045	Price
7/64	5/8	2-1/4	4	FT8014046	Price
35	5/8	2-1/4	4	FT8014047	Price
34	5/8	2-1/4	4	FT8014048	Price
33	5/8	2-1/4	4	FT8014049	Price
32	5/8	2-1/4	4	FT8014050	Price
3.00	16mm	2-1/4	4	FT8014051	Price

Size	LOC (in.)	OAL (in.)	No. of Flutes	Order No.	Price
31	5/8	2-1/4	4	FT8014052	Price
.1240	5/8	2-1/4	4	FT8014150	Price
.1245	5/8	2-1/4	4	FT8014151	Price
1/8	7/8	3-1/2	4	FT8014511	Price
1/8	5/8	2-1/4	4	FT8014053	Price
.1255	5/8	2-1/4	4	FT8014153	Price
.1260	5/8	2-1/4	4	FT8014154	Price
30	3/4	2-1/2	4	FT8014054	Price
29	3/4	2-1/2	4	FT8014055	Price
3.50	20mm	2-1/2	4	FT8014056	Price
28	3/4	2-1/2	4	FT8014057	Price
9/64	7/8	3-1/2	4	FT8014512	Price
9/64	3/4	2-1/2	4	FT8014058	Price
27	3/4	2-1/2	4	FT8014059	Price
26	3/4	2-1/2	4	FT8014060	Price
25	3/4	2-1/2	4	FT8014061	Price
24	3/4	2-1/2	4	FT8014062	Price
23	3/4	2-1/2	4	FT8014063	Price
5/32	1	4	4	FT8014513	Price
5/32	3/4	2-1/2	4	FT8014064	Price
22	3/4	2-1/2	4	FT8014065	Price
.1890	7/8	2-3/4	4	FT8014079	Price
4.00	20mm	2-1/2	4	FT8014066	Price
21	3/4	2-1/2	4	FT8014067	Price
20	7/8	2-3/4	4	FT8014068	Price

(continued on next page)

2- Flute Single-End End Mills



High Speed Steel • Center Cutting • Regular Length

- For slotting operations in all types of materials

Price	Price		Price					
				Rapidkut		ProCut II		ProCut	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/8	3/8	3/8	2-5/16	**CS40G4U**	Price	**CS30G4P**	Price	**CS50G4**	Price
5/32	3/8	3/8	2-5/16	-	-	-	-	**CS50G5**	Price
3/16	3/8	7/16	2-3/8	**CS40G6U**	Price	-	-	-	-
3/16	3/8	7/16	2-5/16	-	-	**CS30G6P**	Price	**CS50G6**	Price
7/32	3/8	7/16	2-5/16	-	-	-	-	**CS50G7**	Price
1/4	3/8	1/2	2-5/16	-	-	**CS30G8P**	Price	**CS50G8**	Price
1/4	3/8	1/2	2-7/16	**CS40G8U**	Price	-	-	-	-
5/16	3/8	9/16	2-1/2	**CS40G10U**	Price	-	-	-	-
5/16	3/8	9/16	2-5/16	-	-	**CS30G10P**	Price	**CS50G10**	Price
3/8	3/8	9/16	2-1/2	**CS40G12U**	Price	-	-	-	-
3/8	3/8	9/16	2-5/16	-	-	**CS30G12P**	Price	**CS50G12**	Price
7/16	3/8	13/16	2-1/2	-	-	**CS30G14P**	Price	**CS50G14**	Price
7/16	3/8	13/16	2-11/16	**CS40G14U**	Price	-	-	-	-
15/32	3/8	1	3	-	-	-	-	**CS50G15**	Price
1/2	3/8	13/16	2-1/2	-	-	**CS30G16XP**	Price	**CS50G16X**	Price
1/2	3/8	13/16	2-11/16	**CS40G16XU**	Price	-	-	-	-
1/2	1/2	1	3	-	-	**CS30G16P**	Price	**CS50G16**	Price
1/2	1/2	1	3-1/4	**CS40G16U**	Price	-	-	-	-
9/16	1/2	1-1/8	3-1/8	-	-	**CS30G18P**	Price	**CS50G18**	Price
9/16	1/2	1-1/8	3-3/8	**CS40G18U**	Price	-	-	-	-
5/8	1/2	1-1/8	3-1/8	-	-	**CS30G20XP**	Price	**CS50G20X**	Price
5/8	1/2	1-1/8	3-3/8	**CS40G20XU**	Price	-	-	-	-
5/8	5/8	1-5/16	3-3/4	**CS40G20U**	Price	-	-	-	-
5/8	5/8	1-5/16	3-7/16	-	-	**CS30G20P**	Price	**CS50G20**	Price
11/16	1/2	1-5/16	3-3/8	**CS40G22XU**	Price	-	-	-	-
11/16	1/2	1-5/16	3-5/16	-	-	**CS30G22XP**	Price	**CS50G22X**	Price
11/16	5/8	1-5/16	3-3/4	**CS40G22U**	Price	-	-	-	-
11/16	5/8	1-5/16	3-7/16	-	-	**CS30G22P**	Price	**CS50G22**	Price
3/4	1/2	1-5/16	3-5/16	-	-	**CS30G24XP**	Price	**CS50G24X**	Price
3/4	1/2	1-5/16	3-5/8	**CS40G24XU**	Price	-	-	-	-
3/4	5/8	1-5/16	3-3/4	**CS40G24U**	Price	-	-	-	-
3/4	5/8	1-5/16	3-7/16	-	-	**CS30G24P**	Price	**CS50G24**	Price
3/4	3/4	1-5/16	3-7/16	-	-	**CS30G24WP**	Price	**CS50G24W**	Price
3/4	3/4	1-5/16	3-7/8	**CS40G24WU**	Price	-	-	-	-
13/16	1/2	1-1/2	3-1/2	-	-	-	-	**CS50G26X**	Price
13/16	5/8	1-1/2	3-5/8	-	-	**CS30G26P**	Price	**CS50G26**	Price
13/16	5/8	1-1/2	4	**CS40G26U**	Price	-	-	-	-
13/16	3/4	1-1/2	3-3/4	-	-	**CS30G26WP**	Price	**CS50G26W**	Price
7/8	5/8	1-1/2	3-5/8	-	-	**CS30G28XP**	Price	**CS50G28X**	Price
7/8	5/8	1-1/2	4	**CS40G28XU**	Price	-	-	-	-
7/8	3/4	1-1/2	3-3/4	-	-	**CS30G28WP**	Price	**CS50G28W**	Price
7/8	3/4	1-1/2	4-1/8	**CS40G28WU**	Price	-	-	-	-
7/8	7/8	1-1/2	3-3/4	-	-	**CS30G28P**	Price	**CS50G28**	Price
7/8	7/8	1-1/2	4-1/8	**CS40G28U**	Price	-	-	-	-
15/16	5/8	1-1/2	3-5/8	-	-	-	-	**CS50G30X**	Price
15/16	3/4	1-1/2	3-3/4	-	-	-	-	**CS50G30W**	Price
15/16	7/8	1-1/2	3-3/4	-	-	-	-	**CS50G30**	Price
1	1/2	1-1/2	3-1/2	-	-	**CS30G32AP**	Price	**CS50G32A**	Price
1	5/8	1-1/2	3-5/8	-	-	**CS30G32XP**	Price	-	-
1	5/8	1-1/2	4	**CS40G32XU**	Price	-	-	-	-
1	3/4	1-1/2	3-3/4	-	-	**CS30G32WP**	Price	**CS50G32W**	Price
1	3/4	1-1/2	4-1/8	**CS40G32WU**	Price	-	-	-	-
1	7/8	1-1/2	3-3/4	-	-	-	-	**CS50G32Y**	Price
1	7/8	1-1/2	4-1/8	**CS40G32YU**	Price	-	-	-	-
1	1	1-5/8	4-1/2	**CS40G32U**	Price	-	-	-	-
1	1	1-5/8	4-1/8	-	-	**CS30G32P**	Price	**CS50G32**	Price
1-1/8	3/4	1-5/8	3-7/8	-	-	**CS30G36WP**	Price	**CS50G36W**	Price
1-1/8	7/8	1-5/8	3-7/8	-	-	-	-	**CS50G36Y**	Price
1-1/8	1	1-5/8	4-1/2	**CS40G36U**	Price	-	-	-	-
1-1/8	1	1-5/8	4-1/8	-	-	-	-	**CS50G36**	Price
1-1/4	3/4	1-5/8	3-7/8	-	-	**CS30G40WP**	Price	**CS50G40W**	Price
1-1/4	3/4	1-5/8	4-1/2	**CS40G40WU**	Price	-	-	-	-
1-1/4	7/8	1-5/8	3-7/8	-	-	-	-	**CS50G40X**	Price
1-1/4	1	1-5/8	4-1/2	**CS40G40ZU**	Price	-	-	-	-
1-1/4	1	1-5/8	4-1/8	-	-	**CS30G40ZP**	Price	**CS50G40Z**	Price
1-1/4	1-1/4	1-5/8	4-1/2	**CS40G40U**	Price	-	-	-	-
1-1/4	1-1/4	1-5/8	4-1/8	-	-	**CS30G40P**	Price	**CS50G40**	Price
1-3/8	3/4	1-5/8	4	-	-	**CS30G44WP**	Price	**CS50G44W**	Price
1-3/8	3/4	1-5/8	4-1/4	**CS40G44WU**	Price	-	-	-	-
1-3/8	1	1-5/8	4-1/8	-	-	**CS30G44P**	Price	**CS50G44**	Price
1-1/2	3/4	1-5/8	4	-	-	**CS30G48WP**	Price	**CS50G48W**	Price
1-1/2	1	1-5/8	4-1/2	**CS40G48U**	Price	-	-	-	-
1-1/2	1	1-5/8	4-1/8	-	-	**CS30G48P**	Price	**CS50G48**	Price
1-1/2	1-1/4	1-5/8	4-1/2	**CS40G48XU**	Price	-	-	-	-
1-1/2	1-1/4	1-5/8	4-1/8	-	-	**CS30G48XP**	Price	**CS50G48X**	Price
1-5/8	1-1/4	1-5/8	4-1/8	-	-	-	-	**CS50G52**	Price
1-3/4	1-1/4	1-5/8	4-1/8	-	-	-	-	**CS50G56**	Price
1-7/8	1-1/4	1-5/8	4-1/8	-	-	-	-	**CS50G60**	Price
2	3/4	1-5/8	4-1/4	**CS40G64WU**	Price	-	-	-	-
2	1-1/4	1-5/8	4-1/2	**CS40G64U**	Price	-	-	-	-
2	1-1/4	1-5/8	4-1/8	-	-	**CS30G64P**	Price	**CS50G64**	Price
2	1-1/4	1-5/8	5	-	-	**CS30G64AP**	Price	**CS50G64A**	Price

PROCUT Miniature 3/16' Shank 2-Flute Single End Mills



High Speed Steel • Center Cutting

Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/32	3/16	3/32	1-11/16	**CP51002**	Price
3/64	3/16	5/32	1-11/16	**CP51003**	Price
1/16	3/16	7/32	1-11/16	**CP51004**	Price
5/64	3/16	1/4	1-1/8	**CP51005**	Price
3/32	3/16	5/16	1-1/8	**CP51006**	Price
7/64	3/16	11/32	1-5/16	**CP51007**	Price
1/8	3/16	3/8	1-5/16	**CP51008**	Price
9/64	3/16	13/32	1-7/16	**CP51009**	Price
5/32	3/16	7/16	1-7/16	**CP51010**	Price
11/64	3/16	15/32	1-11/16	**CP51011**	Price
3/16	3/16	1/2	1-11/16	**CP51012**	Price

2 Flute Long Single End Mills



High Speed Steel • Center Cutting

Price	Price			Price					
				Rapidkut		ProCut II		ProCut	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/4	3/8	1	2-3/4	-	-	**CS32GE8P**	Price	**CS52GE8**	Price
1/4	3/8	1-1/4	3-1/8	**CS42GE8U**	Price	-	-	-	-
3/8	3/8	1-1/2	3-1/4	**CS42GE12U**	Price	**CS32GE12P**	Price	**CS52GE12**	Price
5/16	3/8	1-1/4	3	**CS42GE10U**	Price	**CS32GE10P**	Price	**CS52GE10**	Price
3/8	3/8	1	2-3/4	-	-	**CS32GE12AP**	Price	**CS52GE12A**	Price
1/2	1/2	1-1/2	3-1/2	**CS42GE16AU**	Price	**CS32GE16AP**	Price	**CS52GE16A**	Price
1/2	1/2	2	4	**CS42GE16U**	Price	**CS32GE16P**	Price	**CS52GE16**	Price
1/2	1/2	3	5	-	-	**CS32GE16XP**	Price	**CS52GE16X**	Price
5/8	5/8	2	4-1/8	**CS42GE20AU**	Price	**CS32GE20AP**	Price	**CS52GE20A**	Price
5/8	5/8	2-3/8	4-1/2	-	-	-	-	**CS52GE20X**	Price
5/8	5/8	3	5-1/8	-	-	-	-	**CS52GE20C**	Price
5/8	5/8	4	6-1/8	-	-	-	-	**CS52GE20**	Price
3/4	3/4	2-1/4	4-1/2	**CS42GE24CU**	Price	**CS32GE24CP**	Price	**CS52GE24C**	Price
3/4	1/2	3-1/8	5-1/8	-	-	-	-	**CS52GE24X**	Price
3/4	3/4	3	5-1/4	-	-	**CS32GE24P**	Price	**CS52GE24**	Price
3/4	3/4	4	6-1/4	-	-	-	-	**CS52GE24Y**	Price
7/8	3/4	2-1/2	4-3/4	-	-	-	-	**CS52GE28BW**	Price
7/8	7/8	2-1/2	4-3/4	-	-	-	-	**CS52GE28B**	Price
7/8	7/8	3-1/2	5-3/4	-	-	-	-	**CS52GE28**	Price
1	1	2-1/2	5	-	-	**CS32GE32BP**	Price	**CS52GE32B**	Price
1	1	3	5-1/2	**CS42GE32CU**	Price	-	-	**CS52GE32C**	Price
1	1	4-1/2	7	-	-	**CS32GE32P**	Price	**CS52GE32**	Price
1-1/8	1	3	5-1/2	**CS42GE36CU**	Price	-	-	**CS52GE36C**	Price
1-1/4	1	3	5-1/2	**CS42GE40AYU**	Price	-	-	**CS52GE40AY**	Price
1-1/4	1-1/4	3	5-1/2	**CS42GE40AU**	Price	**CS32GE40AP**	Price	**CS52GE40A**	Price
1-1/4	1-1/4	3-1/2	6	-	-	-	-	**CS52GE40B**	Price
1-1/4	1-1/4	4-3/4	7-1/4	-	-	-	-	**CS52GE40**	Price
1-3/8	1	3	5-1/2	-	-	-	-	**CS52GE44**	Price
1-1/2	1-1/4	3	5-1/2	**CS42GE48U**	Price	-	-	**CS52GE48**	Price
1-1/2	1-1/4	4	6-1/2	-	-	-	-	**CS52GE48X**	Price
1-1/2	1-1/4	6	8-1/2	-	-	**CS32GE48YP**	Price	**CS52GE48Y**	Price
1-5/8	1-1/4	3	5-1/2	-	-	-	-	**CS52GE52**	Price
1-3/4	1-1/4	3	5-1/2	**CS42GE56U**	Price	**CS32GE56P**	Price	**CS52GE56**	Price
1-7/8	1-1/4	3	5-1/2	-	-	-	-	**CS52GE60**	Price
2	1-1/4	3	5-1/2	-	-	**CS32GE64P**	Price	**CS52GE64**	Price
2	1-1/4	4	6-1/2	-	-	-	-	**CS52GE64X**	Price

2 Flute Long Extension Type Single End Mills



High Speed Steel • Center Cutting

- For slotting operations in a variety of materials

Price	Price			Price						
					Rapidkut		ProCut II		ProCut	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	Length Below Shank (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
3/16	3/8	1/2	1-1/4	2-11/16	**CS41GL6U**	Price	-	-	-	-
1/4	3/8	5/8	1-1/2	3-1/16	**CS41GL8U**	Price	**CS31GL8P**	Price	**CS51GL8**	Price
5/16	3/8	3/4	1-3/4	3-5/16	**CS41GL10U**	Price	**CS31GL10P**	Price	**CS51GL10**	Price
3/8	3/8	3/4	1-3/4	3-5/16	**CS41GL12U**	Price	**CS31GL12P**	Price	**CS51GL12**	Price
1/2	1/2	1	2-7/32	4	**CS41GL16U**	Price	**CS31GL16P**	Price	**CS51GL16**	Price
5/8	1/2	1-3/8	2-23/32	4-5/8	-	-	-	-	**CS51GL20X**	Price
5/8	5/8	1-3/8	2-23/32	4-5/8	**CS41GL20U**	Price	**CS31GL20P**	Price	**CS51GL20**	Price
3/4	1/2	1-5/8	3-11/32	5-3/8	-	-	-	-	**CS51GL24X**	Price
3/4	3/4	1-5/8	3-11/32	3-7/8	**CS41GL24U**	Price	-	-	-	-
3/4	3/4	1-5/8	3-11/32	5-3/8	-	-	**CS31GL24P**	Price	**CS51GL24**	Price
7/8	7/8	2	4	6	-	-	-	-	**CS51GL28**	Price
1	1	2-1/2	4-31/32	7-1/4	**CS41GL32U**	Price	**CS31GL32P**	Price	**CS51GL32**	Price
1-1/4	1-1/4	3	4-31/32	7-1/4	-	-	-	-	**CS51GL40**	Price

HSS M GP 2 Flute Single End Mills

High Speed Steel • Center Cutting

- Used for slotting operations in all types of materials



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	3/8	3/8	2-5/16	**MT2343651**	Price
5/32	3/8	3/8	2-5/16	**MT2343691**	Price
3/16	3/8	7/16	2-5/16	**MT2343652**	Price
13/64	3/8	7/16	2-5/16	**MT2343706**	Price
7/32	3/8	7/16	2-5/16	**MT2343692**	Price
15/64	3/8	1/2	2-5/16	**MT2343707**	Price
1/4	3/8	1/2	2-5/16	**MT2343653**	Price
17/64	3/8	9/16	2-5/16	**MT2343708**	Price
9/32	3/8	1/2	2-5/16	**MT2343693**	Price
5/16	3/8	9/16	2-5/16	**MT2343654**	Price
21/64	3/8	9/16	2-5/16	**MT2343710**	Price
11/32	3/8	9/16	2-5/16	**MT2343694**	Price
3/8	3/8	9/16	2-5/16	**MT2343655**	Price
25/64	3/8	13/16	2-1/2	**MT2343712**	Price
13/32	3/8	13/16	2-1/2	**MT2343695**	Price
27/64	3/8	13/16	2-1/2	**MT2343713**	Price
7/16	3/8	13/16	2-1/2	**MT2343656**	Price
15/32	1/2	1	3	**MT2343696**	Price
1/2	3/8	13/16	2-1/2	**MT2343657**	Price
1/2	1/2	1	3	**MT2343658**	Price
33/64	1/2	1	3	**MT2343716**	Price
17/32	1/2	1-1/8	3-1/8	**MT2343697**	Price
35/64	1/2	1-1/8	3-1/8	**MT2343717**	Price
9/16	1/2	1-1/8	3-1/8	**MT2343659**	Price
37/64	1/2	1-1/8	3-1/8	**MT2343718**	Price
19/32	1/2	1-1/8	3-1/8	**MT2343698**	Price
39/64	1/2	1-5/16	3-7/16	**MT2343719**	Price
5/8	1/2	1-1/8	3-1/8	**MT2343660**	Price
5/8	5/8	1-5/16	3-7/16	**MT2343661**	Price
11/16	1/2	1-5/16	3-5/16	**MT2343662**	Price
11/16	5/8	1-5/16	3-7/16	**MT2343663**	Price
3/4	1/2	1-5/16	3-5/16	**MT2343664**	Price
3/4	5/8	1-5/16	3-7/16	**MT2343665**	Price
3/4	3/4	1-5/16	3-9/16	**MT2343666**	Price
13/16	5/8	1-1/2	3-5/8	**MT2343667**	Price
13/16	3/4	1-1/2	3-3/4	**MT2343668**	Price
7/8	5/8	1-1/2	3-5/8	**MT2343669**	Price
7/8	3/4	1-1/2	3-3/4	**MT2343670**	Price
7/8	7/8	1-1/2	3-3/4	**MT2343671**	Price
15/16	3/4	1-1/2	3-3/4	**MT2343673**	Price
15/16	7/8	1-1/2	3-3/4	**MT2343674**	Price
1	5/8	1-1/2	3-5/8	**MT2343675**	Price
1	3/4	1-1/2	3-3/4	**MT2343676**	Price
1	7/8	1-1/2	3-3/4	**MT2343677**	Price
1	1	1-5/8	4-1/8	**MT2343678**	Price
1-1/8	3/4	1-1/2	3-7/8	**MT2343720**	Price
1-1/8	7/8	1-5/8	3-7/8	**MT2343679**	Price
1-1/4	3/4	1-1/2	3-7/8	**MT2343721**	Price
1-1/4	7/8	1-5/8	3-7/8	**MT2343681**	Price
1-3/8	3/4	1-1/2	3-7/8	**MT2343722**	Price
1-1/2	3/4	1-1/2	3-7/8	**MT2343723**	Price
1-5/8	1-1/4	1-5/8	4-1/8	**MT2343687**	Price
1-3/4	3/4	1-1/2	3-7/8	**MT2343724**	Price
2	1-1/4	1-5/8	4-1/8	**MT2343690**	Price

HSS M GP 2 Flute Long Single End Mills

High Speed Steel • Center Cutting



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
3/8	3/8	1-1/2	3-1/4	**MT2344601**	Price
1/2	1/2	2	4	**MT2344602**	Price
5/8	5/8	2	4-1/8	**MT2344603**	Price
3/4	3/4	2-1/4	4-1/2	**MT2344604**	Price
1	1	3	5-1/2	**MT2344606**	Price

HSS M GP 2 Flute Long Extended Length Single End Mills

High Speed Steel • Center Cutting



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/4	3/8	5/8	3-1/16	**MT2343751**	Price
5/16	3/8	3/4	3-5/16	**MT2343752**	Price
3/8	3/8	3/4	3-5/16	**MT2343753**	Price
1/2	1/2	1	4	**MT2343754**	Price

HSS M GP 2 Flute Metric Single End Mills

High Speed Steel • Center Cutting



Dia. (mm)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
5mm	3/8	1/2	2-5/16	**MT2343333**	Price
6mm	3/8	1/2	2-5/16	**MT2343335**	Price
7mm	3/8	9/16	2-5/16	**MT2343337**	Price
8mm	3/8	9/16	2-5/16	**MT2343307**	Price
10mm	3/8	13/16	2-1/2	**MT2343311**	Price
14mm	1/2	1-1/8	3-1/8	**MT2343319**	Price
15mm	1/2	1-1/8	3-1/8	**MT2343321**	Price
17mm	5/8	1-5/16	3-7/16	**MT2343323**	Price
25mm	1	2	4-1/2	**MT2343331**	Price

HSS M GP 2 Flute Double End Mills

High Speed Steel • Center Cutting



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	3/8	3/8	3-1/16	**MT2343412**	Price
5/32	3/8	7/16	3-1/8	**MT2343413**	Price
3/16	3/8	7/16	3-1/8	**MT2343414**	Price
7/32	3/8	1/2	3-1/8	**MT2343415**	Price
1/4	3/8	1/2	3-1/8	**MT2343416**	Price
9/32	3/8	9/16	3-1/8	**MT2343417**	Price
5/16	3/8	9/16	3-1/8	**MT2343418**	Price
11/32	3/8	9/16	3-1/8	**MT2343419**	Price
3/8	3/8	9/16	3-1/8	**MT2343420**	Price
13/32	1/2	13/16	3-3/4	**MT2343421**	Price
7/16	1/2	13/16	3-3/4	**MT2343422**	Price
1/2	1/2	13/16	3-3/4	**MT2343424**	Price
9/16	5/8	1-1/8	4-1/2	**MT2343425**	Price
5/8	5/8	1-1/8	4-1/2	**MT2343426**	Price
3/4	3/4	1-5/16	5	**MT2343428**	Price
7/8	7/8	1-9/16	5-1/2	**MT2343429**	Price

PROFIT 2 Flute Hi-Helix End Mills for Aluminum

High Speed Steel

- Designed to cut aluminum and other non-ferrous materials
- The 38° helix shears the material cleanly and allows for more of the cutting flutes to be engaged with the workpieces thus eliminating chatter



Regular Length



Long Length



Extra Long Length

Length - Standard					
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/4	3/8	5/8	2-1/2	**DA50A8**	Price
5/16	3/8	3/4	2-1/2	**DA50A10**	Price
3/8	3/8	3/4	2-1/2	**DA50A12**	Price
7/16	3/8	1	2-11/16	**DA50A14†**	Price
1/2	1/2	1-1/4	3-1/4	**DA50A16**	Price
5/8	1/2	1-3/8	3-3/8	**DA50A20X**	Price
5/8	5/8	1-5/8	3-3/4	**DA50A20**	Price
3/4	3/4	1-5/8	3-7/8	**DA50A24**	Price
7/8	7/8	1-7/8	4-1/8	**DA50A28**	Price
1	1	2	4-1/2	**DA50A32**	Price
1-1/4	1-1/4	2	4-1/2	**DA50A40**	Price
1-1/2	1-1/4	2	4-1/2	**DA50A48**	Price
1-3/4	1-1/4	2	4-1/2	**DA50A56**	Price
2	1-1/4	2	4-1/2	**DA50A64**	Price

Length - Long					
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/4	3/8	1-1/4	3-1/8	**DA51AL8P†**	Price
5/16	3/8	1-3/8	3-1/8	**DA51AL10P**	Price
3/8	3/8	1-1/2	3-1/4	**DA51AL12P†**	Price
7/16	1/2	1-3/4	3-3/4	**DA51AL14P†**	Price
1/2	1/2	2	4	**DA51AL16P**	Price
5/8	5/8	2-1/2	4-5/8	**DA51AL20P**	Price
3/4	3/4	3	5-1/4	**DA51AL24P**	Price
7/8	7/8	3-1/2	5-3/4	**DA51AL28P**	Price
1	1	4	6-1/2	**DA51AL32P**	Price
1-1/4	1-1/4	4	6-1/2	**DA51AL40P**	Price
1-1/2	1-1/4	4	6-1/2	**DA51AL48P**	Price
1-3/4	1-1/4	4	6-1/2	**DA51AL56P**	Price
2	1-1/4	4	6-1/2	**DA51AL64P**	Price

Length - Extra-Long					
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/4	3/8	1-3/4	3-9/16	**DA52AX8P†**	Price
5/16	3/8	2	3-3/4	**DA52AX10P†**	Price
3/8	3/8	2-1/2	4-1/4	**DA52AX12P†**	Price
7/16	1/2	2-3/4	4-3/4	**DA52AX14P†**	Price
1/2	1/2	3	5	**DA52AX16P**	Price
5/8	5/8	4	6-1/8	**DA52AX20P**	Price
3/4	3/4	4	6-1/4	**DA52AX24P**	Price
7/8	7/8	5	7-1/4	**DA52AX28P**	Price
1	1	6	8-1/2	**DA52AX32P**	Price
1-1/4	1-1/4	6	8-1/2	**DA52AX40P**	Price
1-1/2	1-1/4	6	8-1/2	**DA52AX48XP**	Price
1-1/2	1-1/4	8	10-1/2	**DA52AX48P**	Price

†Available in ball nose while supplies last. To order, add "B" to the end of order number. For pricing, add 10%.

3 Flute Center Cutting Single End Mills

High Speed Steel

- Three flute design allows for better chip removal
- Center cut design allows for plunge milling



Regular Length



Long Length

Length - Standard					
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	3/8	3/8	2-5/16	**CL50E4**	Price
3/16	3/8	1/2	2-3/8	**CL50E6**	Price
1/4	3/8	5/8	2-1/2	**CL50E8**	Price
5/16	3/8	3/4	2-1/2	**CL50E10**	Price
3/8	3/8	3/4	2-1/2	**CL50E12**	Price
7/16	3/8	1	2-11/16	**CL50E14**	Price
1/2	1/2	1-1/4	3-1/4	**CL50E16**	Price
1/2	3/8	1	2-11/16	**CL50E16X**	Price
9/16	1/2	1-3/8	3-3/8	**CL50E18**	Price
5/8	1/2	1-3/8	3-3/8	**CL50E20X**	Price
5/8	5/8	1-5/8	3-3/4	**CL50E20**	Price
3/4	3/4	1-5/8	3-7/8	**CL50E24Y**	Price
3/4	5/8	1-5/8	3-3/4	**CL50E24**	Price
7/8	1/2	1-5/8	3-5/8	**CL50E28Y**	Price
7/8	3/4	1-7/8	4-1/8	**CL50E28W**	Price
7/8	5/8	1-7/8	4	**CL50E28X**	Price
7/8	7/8	1-7/8	4-1/8	**CL50E28**	Price
1	5/8	1-7/8	4	**CL50E32X**	Price
1	3/4	1-7/8	4-1/8	**CL50E32W**	Price
1	1	2	4-1/2	**CL50E32Y**	Price

Length - Long					
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
3/8	3/8	1-1/2	3-1/4	**CL52EL12**	Price
1/2	1/2	2	4	**CL52EL16**	Price
5/8	5/8	2-1/2	4-5/8	**CL52EL20**	Price
3/4	3/4	3	5-1/4	**CL52EL24**	Price
1	1	4	6-1/2	**CL52EL32**	Price
1-1/4	1-1/4	4	6-1/2	**CL52EL40**	Price

3 Flute Center Cutting Double End Mills

High Speed Steel

- Three flute design allows for better chip removal
- Center cut design allows for plunge milling



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	3/8	3/8	3-1/8	**CL51EE4**	Price
5/32	3/8	7/16	3-1/8	**CL51EE5**	Price
3/16	3/8	1/2	3-1/4	**CL51EE6**	Price
1/4	3/8	5/8	3-3/8	**CL51EE8**	Price
5/16	3/8	3/4	3-1/2	**CL51EE10**	Price
3/8	3/8	3/4	3-3/8	**CL51EE12**	Price
7/16	1/2	1	4-1/4	**CL51EE14**	Price
1/2	1/2	1	4-1/4	**CL51EE16**	Price
9/16	5/8	1-3/8	5	**CL51EE18**	Price
5/8	5/8	1-3/8	5	**CL51EE20**	Price
11/16	3/4	1-5/8	5-5/8	**CL51EE22**	Price
3/4	3/4	1-5/8	5-5/8	**CL51EE24**	Price
15/16	1	1-3/4	6-1/2	**CL51EE30**	Price
1	1	1-3/4	6-1/2	**CL51EE32**	Price

RAPIDKUT®

Made by leading USA end mill manufacturers. Quality made to meet the close tolerances required in today's high production environment.

Rapidkut: 1/32″ - 3″ In all the styles and types required by the most precision CNC machines. Equal in quality to other premier American end mill manufacturers but at a substantial savings.

PRO CUT II PREMIUM CUTTING TOOLS

Premium quality end mills from selected Global Manufacturers. Designed to meet the need of higher production runs at affordable prices.

Pro Cut II: Manufactured to strict USA specifications. These mills are in use throughout the United States in many of the finest precision shops. Important price savings without sacrificing quality. Huge inventory and immediate delivery.

PROCUT

Produced by World Quality manufacturers. Designed to give you excellent quality at affordable prices.

ProCut: Imported to provide a full line of general purpose economy priced end mills that will produce excellent results at very reduced costs.

2 Flute Double End Mills

High Speed Steel • Center Cutting



Price	Price			Price		PRO CUT II		PROCUT	
				Rapidkut		ProCut II		ProCut	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/8	3/8	3/8	3-1/16	CR40C4U	Price	CR30C4P	Price	CR50C4	Price
9/64	3/8	7/16	3-1/8	-	-	-	-	CR50C964	Price
5/32	3/8	7/16	3-1/8	CR40C5U	Price	CR30C5P	Price	CR50C5	Price
11/64	3/8	7/16	3-1/8	-	-	-	-	CR50C1164	Price
3/16	3/8	7/16	3-1/4	CR40C6U	Price	-	-	-	-
3/16	3/8	7/16	3-1/8	-	-	CR30C6P	Price	CR50C6	Price
13/64	3/8	1/2	3-1/8	-	-	-	-	CR50C1364	Price
7/32	3/8	1/2	3-1/4	CR40C7U	Price	-	-	-	-
7/32	3/8	1/2	3-1/8	-	-	CR30C7P	Price	CR50C7	Price
15/64	3/8	1/2	3-1/8	CR40C1564U	Price	-	-	CR50C1564	Price
1/4	3/8	1/2	3-1/8	-	-	CR30C8P	Price	CR50C8	Price
1/4	3/8	1/2	3-3/8	CR40C8U	Price	-	-	-	-
17/64	3/8	9/16	3-1/8	CR40C1764U	Price	-	-	CR50C1764	Price
9/32	3/8	9/16	3-1/8	-	-	CR30C9P	Price	CR50C9	Price
9/32	3/8	9/16	3-3/8	CR40C9U	Price	-	-	-	-
5/16	3/8	9/16	3-1/2	CR40C10U	Price	-	-	-	-
5/16	3/8	9/16	3-1/8	-	-	CR30C10P	Price	CR50C10	Price
21/64	3/8	9/16	3-1/8	-	-	-	-	CR50C2164	Price
11/32	3/8	9/16	3-1/2	CR40C11U	Price	-	-	-	-
11/32	3/8	9/16	3-1/8	-	-	CR30C11P	Price	CR50C11	Price
23/64	3/8	9/16	3-1/8	CR40C2364U	Price	-	-	CR50C2364	Price
3/8	3/8	9/16	3-1/2	CR40C12U	Price	-	-	-	-
3/8	3/8	9/16	3-1/8	-	-	CR30C12P	Price	CR50C12	Price
25/64	1/2	13/16	3-3/4	CR40C2564U	Price	-	-	CR50C2564	Price
13/32	1/2	13/16	3-3/4	-	-	CR30C13P	Price	CR50C13	Price
13/32	1/2	13/16	4-1/8	CR40C13U	Price	-	-	-	-
27/64	1/2	13/16	3-3/4	CR40C2764U	Price	-	-	CR50C2764	Price
7/16	1/2	13/16	3-3/4	-	-	CR30C14P	Price	CR50C14	Price
7/16	1/2	13/16	4-1/8	CR40C14U	Price	-	-	-	-
29/64	1/2	13/16	3-3/4	-	-	-	-	CR50C2964	Price
15/32	1/2	13/16	3-3/4	-	-	-	-	CR50C15	Price
15/32	1/2	13/16	4-1/8	CR40C15U	Price	-	-	-	-
31/64	1/2	13/16	3-3/4	CR40C3164U	Price	-	-	CR50C3164	Price
1/2	1/2	13/16	3-3/4	-	-	CR30C16P	Price	CR50C16	Price
1/2	1/2	13/16	4-1/8	CR40C16U	Price	-	-	-	-
17/32	5/8	1-1/8	4-1/2	-	-	-	-	CR50C17	Price
17/32	5/8	1-1/8	5	CR40C17U	Price	-	-	-	-
9/16	5/8	1-1/8	4-1/2	-	-	CR30C18P	Price	CR50C18	Price
9/16	5/8	1-1/8	5	CR40C18U	Price	-	-	-	-
19/32	5/8	1-1/8	4-1/2	-	-	-	-	CR50C19	Price
19/32	5/8	1-1/8	5	CR40C19U	Price	-	-	-	-
5/8	5/8	1-1/8	4-1/2	-	-	CR30C20P	Price	CR50C20	Price
5/8	5/8	1-1/8	5	CR40C20U	Price	-	-	-	-
21/32	3/4	1-5/16	5	-	-	-	-	CR50C21	Price
21/32	3/4	1-5/16	5-5/8	CR40C21U	Price	-	-	-	-
11/16	3/4	1-5/16	5	-	-	CR30C22P	Price	CR50C22	Price
11/16	3/4	1-5/16	5-5/8	CR40C22U	Price	-	-	-	-
23/32	3/4	1-5/16	5	-	-	-	-	CR50C23	Price
3/4	3/4	1-5/16	5	-	-	CR30C24P	Price	CR50C24	Price
3/4	3/4	1-5/16	5-5/8	CR40C24U	Price	-	-	-	-
13/16	7/8	1-9/16	5-1/2	-	-	CR30C26P	Price	CR50C26	Price
27/32	7/8	1-9/16	6-1/8	CR40C27U	Price	-	-	-	-
7/8	7/8	1-9/16	5-1/2	-	-	CR30C28P	Price	CR50C28	Price
7/8	7/8	1-9/16	6-1/8	CR40C28U	Price	-	-	-	-
29/32	1	1-5/8	6-3/8	CR40C29U	Price	-	-	-	-
15/16	1	1-5/8	5-7/8	-	-	CR30C30P	Price	CR50C30	Price
15/16	1	1-5/8	6-3/8	CR40C30U	Price	-	-	-	-
31/32	1	1-5/8	6-3/8	CR40C31U	Price	-	-	-	-
1	1	1-5/8	5-7/8	-	-	CR30C32P	Price	CR50C32	Price
1	1	1-5/8	6-3/8	CR40C32U	Price	-	-	-	-

Metric 2 Flute Single End Mills



High Speed Steel and M-42 8% Cobalt • Center Cutting

				Rapidkut				ProCut			
				High Speed Steel		M-42 Cobalt		High Speed Steel		Price	
Dia.	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
2mm	3/8	5/16	2-5/16	CY812020U	Price	-	-	CY762020	Price	-	-
2.5mm	3/8	5/16	2-5/16	CY812025U	Price	-	-	CY762025	Price	-	-
3mm	3/8	3/8	2-5/16	CY812030U	Price	-	-	-	-	-	-
3mm	3/8	5/16	2-5/16	-	-	CY832030CU	Price	CY762030	Price	CY782030C	Price
3.5mm	3/8	7/16	2-3/8	CY812035U	Price	-	-	-	-	-	-
3.5mm	3/8	7/16	2-5/16	-	-	-	-	-	-	CY782035C	Price
4mm	3/8	7/16	2-3/8	CY812040U	Price	-	-	-	-	-	-
4mm	3/8	7/16	2-5/16	-	-	CY832040CU	Price	CY762040	Price	CY782040C	Price
4.5mm	3/8	1/2	2-5/16	-	-	-	-	CY762045	Price	CY782045C	Price
4.5mm	3/8	7/16	2-3/8	CY812045U	Price	-	-	-	-	-	-
5mm	3/8	1/2	2-5/16	-	-	CY832050CU	Price	CY762050	Price	CY782050C	Price
5mm	3/8	7/16	2-7/16	CY812050U	Price	-	-	-	-	-	-
5.5mm	3/8	1/2	2-5/16	-	-	-	-	CY762055	Price	CY782055C	Price
5.5mm	3/8	1/2	2-7/16	CY812055U	Price	-	-	-	-	-	-
6mm	3/8	1/2	2-5/16	-	-	CY832060CU	Price	CY762060	Price	CY782060C	Price
6mm	3/8	1/2	2-7/16	CY812060U	Price	-	-	-	-	-	-
6.5mm	3/8	1/2	2-7/16	CY812065U	Price	-	-	-	-	-	-
7mm	3/8	9/16	2-1/2	CY812070U	Price	-	-	-	-	-	-
7mm	3/8	9/16	2-5/16	-	-	CY832070CU	Price	CY762070	Price	CY782070C	Price
7.5mm	3/8	9/16	2-1/2	CY812075U	Price	-	-	-	-	-	-
8mm	3/8	9/16	2-1/2	CY812080U	Price	-	-	-	-	-	-
8mm	3/8	9/16	2-5/16	-	-	CY832080CU	Price	CY762080	Price	CY782080C	Price
8.5mm	3/8	9/16	2-1/2	CY812085U	Price	-	-	-	-	-	-
9mm	3/8	9/16	2-1/2	CY812090U	Price	-	-	-	-	-	-
9mm	3/8	9/16	2-5/16	-	-	-	-	CY762090	Price	-	-
-	-	-	-	-	-	-	-	-	-	-	-
10mm	3/8	13/16	2-1/2	-	-	CY832100CU	Price	CY762100	Price	CY782100C	Price
10mm	3/8	3/4	2-1/2	CY812100U	Price	-	-	-	-	-	-
10.5mm	3/8	1	2-11/16	CY812105U	Price	-	-	-	-	-	-
11mm	3/8	1	2-11/16	CY812110U	Price	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
12mm	3/8	13/16	2-1/2	CY812120U	Price	CY832120CU	Price	CY762120	Price	CY782120C	Price
12.5mm	1/2	1-1/4	3-1/4	CY812125U	Price	-	-	-	-	-	-
12.5mm	1/2	1-1/8	3-1/8	-	-	-	-	CY762125	Price	CY782125C	Price
13mm	1/2	1-1/8	3-1/8	CY812130U	Price	CY832130CU	Price	CY762130	Price	-	-
14mm	1/2	1-1/8	3-1/8	CY812140U	Price	CY832140CU	Price	CY762140	Price	CY782140C	Price
16mm	5/8	1-3/8	3-3/4	CY812160U	Price	-	-	-	-	-	-
16mm	5/8	1-5/16	3	-	-	CY832160CU	Price	-	-	-	-
16mm	5/8	1-5/16	3-7/16	-	-	-	-	CY762160	Price	CY782160C	Price
18mm	5/8	1-5/16	3-7/16	-	-	-	-	CY762180	Price	CY782180C	Price
18mm	5/8	1-5/8	3-3/4	CY812180U	Price	-	-	-	-	-	-
20mm	3/4	1-1/2	3-3/4	CY812200U	Price	CY832200CU	Price	-	-	CY782200C	Price
20mm	5/8	1-1/2	3-3/4	-	-	-	-	CY762200	Price	-	-
22mm	3/4	1-1/2	3-3/4	-	-	-	-	CY762220	Price	CY782220C	Price
24mm	3/4	2	4-1/2	-	-	-	-	CY762240	Price	-	-
25mm	1	2	4-1/2	CY812250U	Price	-	-	CY762250	Price	-	-

Metric 4 Flute Single End Mills



High Speed Steel and M-42 8% Cobalt

				High Speed Steel				M-42 Cobalt			
				Non-Center Cut				Center Cut			
				Rapidkut		ProCut		Rapidkut		Price	
Dia.	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
2mm	3/8	3/8	2-5/16	CY824020U	Price	CY774020	Price	-	-	-	-
2.5mm	3/8	3/8	2-5/16	CY824025U	Price	CY774025	Price	-	-	-	-
3mm	3/8	3/8	2-5/16	CY824030U	Price	CY774030	Price	CY844030CU	Price	CY794030C	Price
3.5mm	3/8	1/2	2-3/8	CY824035U	Price	CY774035	Price	-	-	CY794035C	Price
4mm	3/8	1/2	2-3/8	CY824040U	Price	CY774040	Price	CY844040CU	Price	CY794040C	Price
4.5mm	3/8	1/2	2-3/8	CY824045U	Price	-	-	-	-	-	-
4.5mm	3/8	9/16	2-1/2	-	-	CY774045	Price	-	-	CY794045C	Price
5mm	3/8	5/8	2-7/16	CY824050U	Price	-	-	-	-	-	-
5mm	3/8	9/16	2-1/2	-	-	CY774050	Price	CY844050CU	Price	CY794050C	Price
5.5mm	3/8	5/8	2-1/2	-	-	CY774055	Price	-	-	CY794055C	Price
5.5mm	3/8	5/8	2-7/16	CY824055U	Price	-	-	-	-	-	-
6mm	3/8	5/8	2-1/2	-	-	CY774060	Price	CY844060CU	Price	CY794060C	Price
6mm	3/8	5/8	2-7/16	CY824060U	Price	-	-	-	-	-	-
7mm	3/8	11/16	2-1/2	-	-	CY774070	Price	CY844070CU	Price	CY794070C	Price
7mm	3/8	3/4	2-1/2	CY824070U	Price	-	-	-	-	-	-
8mm	3/8	3/4	2-1/2	CY824080U	Price	CY774080	Price	CY844080CU	Price	CY794080C	Price
9mm	3/8	3/4	2-1/2	CY824090U	Price	CY774090	Price	CY844090CU	Price	-	-
9.5mm	3/8	3/4	2-1/2	CY824095U	Price	-	-	-	-	-	-
10mm	3/8	1	2-11/16	-	-	CY774100	Price	CY844100CU	Price	CY794100C	Price
10mm	3/8	3/4	2-1/2	CY824100U	Price	-	-	-	-	-	-
10.5mm	3/8	1	2-11/16	CY824105U	Price	-	-	-	-	-	-
11mm	3/8	1	2-11/16	CY824110U	Price	CY774110	Price	CY844110CU	Price	CY794110C	Price
11.5mm	3/8	1	2-11/16	CY824115U	Price	-	-	-	-	-	-
12mm	3/8	1	2-11/16	CY824120U	Price	CY774120	Price	CY844120CU	Price	CY794120C	Price
12.5mm	1/2	1-1/4	3-1/4	CY824125U	Price	CY774125	Price	-	-	CY794125C	Price
13mm	1/2	1-1/4	3-1/4	CY824130U	Price	CY774130	Price	CY844130CU	Price	CY794130C	Price
13.5mm	1/2	1-3/8	3-3/8	CY824135U	Price	-	-	-	-	-	-
14mm	1/2	1-3/8	3-3/8	CY824140U	Price	CY774140	Price	CY844140CU	Price	CY794140C	Price
14.5mm	1/2	1-3/8	3-3/8	CY824145U	Price	-	-	-	-	-	-
16mm	5/8	1-5/8	3-3/4	CY824160U	Price	CY774160	Price	CY844160CU	Price	CY794160C	Price
18mm	5/8	1-5/8	3-3/4	CY824180U	Price	CY774180	Price	CY844180CU	Price	CY794180C	Price
20mm	3/4	1-7/8	4-1/8	CY824200U	Price	-	-	CY844200CU	Price	-	-
20mm	5/8	1-7/8	4-1/8	-	-	CY774200	Price	-	-	CY794200C	Price
22mm	3/4	1-7/8	4-1/8	CY824220U	Price	CY774220	Price	-	-	-	-
24mm	3/4	2	4-1/2	-	-	CY774240	Price	-	-	-	-
25mm	1	2	4-1/2	CY824250U	Price	-	-	-	-	-	-

HSS MORSE M GP Multi-Flute Regular Length Single End Mills



High Speed Steel

Price					Center Cut		Non-Center Cut	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price
1/8	3/8	3/8	2-5/16	4	**MT2244135**	Price	**MT2143501**	Price
5/32	3/8	1/2	2-3/8	4	**MT2243021**	Price	**-**	-
5/32	3/8	7/16	2-3/8	4	**-**	-	**MT2143541**	Price
11/64	3/8	1/2	2-3/8	4	**-**	-	**MT2143562**	Price
3/16	3/8	1/2	2-3/8	4	**MT2244136**	Price	**MT2143502**	Price
13/64	3/8	1/2	2-3/8	4	**-**	-	**MT2143563**	Price
7/32	3/8	9/16	2-7/16	4	**MT2244149**	Price	**MT2143542**	Price
15/64	3/8	5/8	2-7/16	4	**-**	-	**MT2143564**	Price
1/4	3/8	5/8	2-7/16	4	**MT2244137**	Price	**MT2143503**	Price
17/64	3/8	5/8	2-7/16	4	**-**	-	**MT2143565**	Price
9/32	3/8	11/16	2-1/2	4	**MT2244150**	Price	**MT2143543**	Price
19/64	3/8	3/4	2-1/2	4	**-**	-	**MT2143566**	Price
5/16	3/8	3/4	2-1/2	4	**MT2244138**	Price	**MT2143504**	Price
21/64	3/8	3/4	2-1/2	4	**-**	-	**MT2143567**	Price
11/32	3/8	3/4	2-1/2	4	**MT2244151**	Price	**MT2143544**	Price
23/64	3/8	3/4	2-1/2	4	**-**	-	**MT2143568**	Price
3/8	3/8	3/4	2-1/2	4	**MT2244139**	Price	**MT2143505**	Price
25/64	3/8	1	2-11/16	4	**-**	-	**MT2143569**	Price
13/32	3/8	1	2-11/16	4	**MT2244152**	Price	**MT2143545**	Price
27/64	3/8	1	2-11/16	4	**-**	-	**MT2143570**	Price
7/16	3/8	1	2-11/16	4	**MT2244153**	Price	**MT2143506**	Price
29/64	1/2	1	2-11/16	4	**-**	-	**MT2143571**	Price
15/32	1/2	1-1/4	3-1/4	4	**MT2244154**	Price	**MT2143546**	Price
31/64	1/2	1	2-11/16	4	**-**	-	**MT2143572**	Price
1/2	3/8	1	2-11/16	4	**MT2243033**	Price	**MT2143507**	Price
1/2	1/2	1-1/4	3-1/4	4	**MT2244140**	Price	**MT2143508**	Price
17/32	1/2	1-3/8	3-3/8	4	**MT2244155**	Price	**MT2143547**	Price
9/16	1/2	1-3/8	3-3/8	4	**MT2244156**	Price	**MT2143509**	Price
19/32	1/2	1-3/8	3-3/8	4	**-**	-	**MT2143548**	Price
5/8	1/2	1-3/8	3-3/8	4	**MT2243034**	Price	**MT2143510**	Price
5/8	5/8	1-5/8	3-3/4	4	**MT2244141**	Price	**MT2143511**	Price
21/32	5/8	1-5/8	3-3/4	4	**-**	-	**MT2143549**	Price
11/16	1/2	1-5/8	3-5/8	4	**-**	-	**MT2143512**	Price
11/16	5/8	1-5/8	3-3/4	4	**MT2244142**	Price	**MT2143513**	Price
23/32	1/2	1-5/8	3-7/8	4	**-**	-	**MT2143550**	Price
3/4	1/2	1-5/8	3-5/8	4	**-**	-	**MT2143514**	Price
3/4	5/8	1-5/8	3-3/4	4	**MT2243035**	Price	**MT2143515**	Price
3/4	3/4	1-5/8	3-7/8	4	**MT2244143**	Price	**MT2143516**	Price
25/32	1/2	1-7/8	3-5/8	4	**-**	-	**MT2143551**	Price
13/16	5/8	1-7/8	4	6	**-**	-	**MT2143517**	Price
13/16	3/4	1-7/8	4-1/8	4	**MT2244157**	Price	**MT2143518**	Price
27/32	7/8	1-7/8	4-1/8	4	**-**	-	**MT2143552**	Price
7/8	5/8	1-7/8	4	6	**-**	-	**MT2143519**	Price
7/8	3/4	1-7/8	4-1/8	4	**MT2243036**	Price	**MT2143520**	Price
7/8	7/8	1-7/8	4-1/8	4	**MT2244144**	Price	**MT2143521**	Price
29/32	7/8	1-7/8	4-1/8	4	**-**	-	**MT2143553**	Price
15/16	3/4	1-7/8	4-1/8	4	**-**	-	**MT2143523**	Price
15/16	7/8	1-7/8	4-1/8	4	**MT2244158**	Price	**MT2143524**	Price
31/32	1	2	4-1/2	4	**-**	-	**MT2143554**	Price
1	5/8	1-7/8	4	6	**-**	-	**MT2143525**	Price
1	3/4	2	4-1/8	4	**-**	-	**MT2143526**	Price
1	3/4	2	4-1/8	4	**MT2243038**	Price	**-**	-
1	7/8	1-7/8	4-1/8	4	**-**	-	**MT2143527**	Price
1	1	2	4-1/2	4	**MT2244145**	Price	**MT2143528**	Price
1-1/8	3/4	1-1/2	3-7/8	6	**-**	-	**MT2143555**	Price
1-1/8	1	2	4-1/2	6	**MT2244146†**	87.59	**MT2143530**	Price
1-1/4	3/4	1-1/2	3-7/8	6	**-**	-	**MT2143556**	Price
1-1/4	7/8	2	4-1/4	6	**-**	-	**MT2143531**	Price
1-1/4	1	2	4-1/2	6	**MT2243041**	Price	**MT2143532**	Price
1-1/4	1-1/4	2	4-1/2	6	**MT2244147†**	Price	**MT2143533**	Price
1-3/8	3/4	1-1/2	3-7/8	6	**-**	-	**MT2143557**	Price
1-3/8	1	2	4-1/2	6	**-**	-	**MT2143534**	Price
1-1/2	3/4	1-1/2	3-7/8	6	**-**	-	**MT2143558**	Price
1-1/2	1	2	4-1/2	6	**-**	-	**MT2143535**	Price
1-1/2	1-1/4	2	4-1/2	6	**MT2244148**	Price	**MT2143536**	Price
1-5/8	1-1/4	2	4-1/2	6	**-**	-	**MT2143537**	Price
1-3/4	3/4	1-1/2	3-7/8	6	**-**	-	**MT2143559**	Price
1-3/4	1-1/4	2	4-1/2	6	**MT2244159**	Price	**MT2143538**	Price
2	3/4	1-1/2	3-7/8	8	**-**	-	**MT2143560**	Price
2	1-1/4	2	4-1/2	6	**MT2244160**	Price	**-**	-
2	1-1/4	2	4-1/2	8	**-**	-	**MT2143540**	Price

†4-Flute

Multi-Flute Single End Mills

High Speed Steel • Regular Length



Price		Price		Price	RAPIDKUT		PRO CUT II		PROCUT		RAPIDKUT		PROCUT	
	Price		Price		Price						Non-Center Cutting			
					Rapidkut		ProCut II		ProCut		Rapidkut		Price	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	3/8	3/8	2-5/16	4	CT30F4U	Price	CT20F4P	Price	CT55F4	Price	CT40F4U	Price	-	-
3/16	3/8	1/2	2-3/8	4	CT30F6U	Price	CT20F6P	Price	CT55F6	Price	CT40F6U	Price	-	-
1/4	3/8	5/8	2-7/16	4	CT30F8U	Price	CT20F8P	Price	CT55F8	Price	CT40F8U	Price	-	-
9/32	3/8	3/4	2-1/2	4	-	-	-	-	CT55F9	Price	-	-	-	-
5/16	3/8	3/4	2-1/2	4	CT30F10U	Price	CT20F10P	Price	CT55F10	Price	CT40F10U	Price	-	-
11/32	3/8	3/4	2-1/2	4	-	-	-	-	CT55F11	Price	-	-	-	-
3/8	3/8	3/4	2-1/2	4	CT30F12U	Price	CT20F12P	Price	CT55F12	Price	CT40F12U	Price	-	-
7/16	3/8	1	2-11/16	4	CT30F14U	Price	CT20F14P	Price	CT55F14	Price	CT40F14U	Price	-	-
1/2	3/8	1	2-11/16	4	-	-	CT20F16XP	Price	CT55F16X	Price	CT40F16XU	Price	-	-
1/2	1/2	1-1/4	3-1/4	4	CT30F16U	Price	CT20F16P	Price	CT55F16	Price	CT40F16U	Price	-	-
9/16	1/2	1-3/8	3-3/8	4	CT30F18U	Price	CT20F18P	Price	CT55F18	Price	CT40F18U	Price	-	-
5/8	1/2	1-3/8	3-3/8	4	CT30F20XU	Price	CT20F20XP	Price	CT55F20X	Price	CT40F20XU	Price	-	-
5/8	5/8	1-5/8	3-3/4	4	CT30F20U	Price	CT20F20P	Price	CT55F20	Price	CT40F20U	Price	-	-
11/16	1/2	1-5/8	3-5/8	4	-	-	-	-	CT55F22X	Price	-	-	-	-
11/16	5/8	1-5/8	3-3/4	4	-	-	CT20F22P	Price	CT55F22	Price	-	-	CT50F22	Price
3/4	1/2	1-5/8	3-5/8	4	-	-	CT20F24XP	Price	CT55F24X	Price	CT40F24XU	Price	-	-
3/4	5/8	1-5/8	3-3/4	4	CT30F24U	Price	CT20F24P	Price	CT55F24	Price	CT40F24U	Price	-	-
3/4	3/4	1-5/8	3-7/8	4	CT30F24WU	Price	CT20F24WP	Price	CT55F24W	Price	CT40F24WU	Price	-	-
13/16	5/8	1-7/8	4	6	-	-	-	-	CT55F26	Price	-	-	-	-
13/16	3/4	1-7/8	4-1/8	4	-	-	CT20F26WP	Price	CT55F26W	Price	-	-	-	-
7/8	1/2	1-7/8	3-5/8	4	-	-	-	-	CT55F28Y	Price	-	-	-	-
7/8	5/8	1-7/8	4	6	-	-	-	-	CT55F28X	Price	-	-	-	-
7/8	5/8	1-7/8	4-1/8	6	CT30F28XU	Price	-	-	-	-	-	-	-	-
7/8	3/4	1-7/8	4-1/8	4	CT30F28WU	Price	CT20F28WP	Price	CT55F28W	Price	CT40F28WU	Price	-	-
7/8	7/8	1-7/8	4-1/8	4	-	-	CT20F28P	Price	CT55F28	Price	CT40F28U	Price	-	-
15/16	5/8	1-7/8	4-1/8	6	-	-	-	-	CT55F30X	Price	-	-	CT50F30X	Price
15/16	3/4	1-7/8	4-1/8	4	-	-	-	-	CT55F30W	Price	-	-	-	-
15/16	7/8	1-7/8	4-1/8	4	-	-	-	-	-	-	CT40F30U	Price	CT50F30	Price
1	1/2	1-7/8	3-7/8	4	-	-	-	-	CT55F32A	Price	-	-	-	-
1	5/8	1-7/8	4	6	-	-	CT20F32XP	Price	CT55F32X	Price	CT40F32XU	Price	-	-
1	5/8	1-7/8	4-1/8	6	CT30F32XU	Price	-	-	-	-	-	-	-	-
1	3/4	1-7/8	4-1/8	4	CT30F32WU	Price	CT20F32WP	Price	CT55F32W	Price	CT40F32WU	Price	-	-
1	7/8	1-7/8	4-1/8	4	-	-	CT20F32P	Price	CT55F32	Price	-	-	CT50F32	Price
1	1	2	4-1/2	4	CT30F32YU	Price	CT20F32YP	Price	CT55F32Y	Price	CT40F32YU	Price	CT50F32Y	Price
1	1	2	4-1/2	6	-	-	-	-	CT55F32YA	Price	-	-	-	-
1-1/8	3/4	2	3-7/8	6	CT30F36WU	Price	-	-	-	-	-	-	-	-
1-1/8	3/4	2	4-1/4	6	-	-	CT20F36WP	Price	CT55F36W	Price	CT40F36WU	Price	-	-
1-1/8	7/8	2	4-1/4	6	-	-	-	-	CT55F36X	Price	CT40F36XU	Price	-	-
1-1/8	1	2	4-1/2	4	-	-	-	-	CT55F36A	Price	-	-	-	-
1-1/8	1	2	4-1/2	6	-	-	CT20F36P	Price	CT55F36	Price	-	-	-	-
1-1/4	3/4	2	4-1/4	6	-	-	CT20F40WP	Price	CT55F40W	Price	CT40F40WU	Price	-	-
1-1/4	7/8	2	4-1/4	6	-	-	-	-	CT55F40X	Price	-		-	-
1-1/4	1	2	4-1/2	6	CT30F40U	Price	CT20F40P	Price	CT55F40	Price	-	-	-	-
1-1/4	1-1/4	2	4-1/2	4	CT30F40AU	Price	CT20F40AP	Price	CT55F40A	Price	-	-	-	-
1-1/4	1-1/4	2	4-1/2	6	-	-	-	-	CT55F40Y	Price	-	-	CT50F40Y	Price
1-3/8	3/4	2	4-1/4	6	-	-	CT20F44WP	Price	CT55F44W	Price	-	-	-	-
1-3/8	1	2	4-1/2	6	-	-	CT20F44P	Price	CT55F44	Price	-	-	-	-
1-1/2	3/4	2	4-1/4	6	-	-	CT20F48WP	Price	CT55F48W	Price	CT40F48WU	Price	-	-
1-1/2	1	2	4-1/2	6	CT30F48U	Price	CT20F48P	Price	CT55F48	Price	CT40F48U	Price	-	-
1-1/2	1-1/4	2	4-1/2	4	CT30F48AU	Price	CT20F48AP	Price	CT55F48A	Price	-	-	CT50F48A	Price
1-1/2	1-1/4	2	4-1/2	6	CT30F48XU	Price	CT20F48XP	Price	CT55F48X	Price	CT40F48XU	Price	CT50F48X	Price
1-5/8	1-1/4	2	4-1/2	6	-	-	-	-	CT55F52	Price	-	-	-	-
1-3/4	1-1/4	2	4-1/2	4	-	-	-	-	CT55F56A	Price	-	-	CT50F56A	Price
1-3/4	1-1/4	2	4-1/2	6	CT30F56U	Price	CT20F56P	Price	CT55F56	Price	-	-	-	-
1-7/8	3/4	2-1/2	4-1/2	6	-	-	-	-	CT55F60W	Price	-	-	-	-
1-7/8	1-1/4	2	4-1/2	6	-	-	-	-	CT55F60	Price	-	-	-	-
2	3/4	2	4-1/2	8	-	-	CT20F64WP	Price	CT55F64W	Price	-	-	-	-
2	3/4	2	4-1/4	8	-	-	-	-	-	-	CT40F64WU	Price	-	-
2	1-1/4	2	4-1/2	4	-	-	-	-	CT55F64A	Price	-	-	-	-
2	1-1/4	2	4-1/2	6	-	-	CT20F64BP	Price	CT55F64B	Price	CT40F64BU	Price	-	-
2	1-1/4	2	4-1/2	8	-	-	-	-	CT55F64	Price	CT40F64U	Price	-	-

Multi-Flute Long Single End Mills



Center Cutting • Non-Center Cutting • High Speed Steel

Pro-Cut — General purpose economy
Pro-Cut II — Premium quality import
RapidKut — Precision made by one of America's largest manufacturers

Price		Price		Price	RAPIDKUT				ProCut II				ProCut
					Center Cutting		Non-Center Cutting		Non-Center Cutting		Center Cutting		Price
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/4	3/8	1-1/4	3-1/16	4	CT31FL8U	Price	CT41FL8U	Price	CT51FL8	Price	CT21FL8P	Price	CT56FL8	Price
5/16	3/8	1-3/8	3-1/8	4	CT31FL10U	Price	CT41FL10U	Price	CT51FL10	Price	CT21FL10P	Price	CT56FL10	Price
3/8	3/8	1-1/2	3-1/4	4	CT31FL12U	Price	CT41FL12U	Price	-	-	CT21FL12P	Price	CT56FL12	Price
7/16	1/2	1-3/4	3-3/4	4	CT31FL14U	Price	CT41FL14U	Price	-	-	CT21FL14P	Price	CT56FL14	Price
1/2	1/2	2	4	4	CT31FL16U	Price	CT41FL16U	Price	-	-	CT21FL16P	Price	CT56FL16	Price
5/8	1/2	2-1/2	4-5/8	4	-	-	-	-	-	-	-	-	CT56FL20X	Price
5/8	5/8	2-1/2	4-5/8	4	CT31FL20U	Price	CT41FL20U	Price	-	-	CT21FL20P	Price	CT56FL20	Price
3/4	1/2	3	5-1/4	4	-	-	-	-	-	-	-	-	CT56FL24X	Price
3/4	3/4	3	5-1/4	4	CT31FL24U	Price	CT41FL24U	Price	-	-	CT21FL24P	Price	CT56FL24	Price
7/8	3/4	3-1/2	5-1/2	4	-	-	-	-	-	-	-	-	CT56FL28W	Price
7/8	7/8	3-1/2	5-3/4	4	CT31FL28U	Price	-	-	CT51FL28	Price	CT21FL28P	Price	CT56FL28	Price
1	1	4	6-1/2	4	CT31FL32U	Price	CT41FL32U	Price	-	-	CT21FL32P	Price	CT56FL32	Price
1-1/4	3/4	4	6-1/2	6	-	-	-	-	-	-	-	-	CT56FL40W	Price
1-1/4	1	4	6-1/2	6	-	-	CT41FL40U	Price	-	-	-	-	-	-
1-1/4	1-1/4	4	6-1/2	4	-	-	-	-	-	-	-	-	CT56FL40A	Price
1-1/4	1-1/4	4	6-1/2	6	-	-	CT41FL40XU	Price	-	-	-	-	-	-
1-1/2	1	4	6-1/2	6	-	-	CT41FL48XU	Price	-	-	-	-	-	-
1-1/2	1-1/4	4	6-1/2	4	-	-	-	-	-	-	-	-	CT56FL48A	Price
1-1/2	1-1/4	4	6-1/2	6	-	-	CT41FL48U	Price	-	-	-	-	CT56FL48	Price
2	1-1/4	4	6-1/2	4	-	-	-	-	CT51FL64A	Price	-	-	CT56FL64A	Price
2	1-1/4	4	6-1/2	6	-	-	-	-	-	-	-	-	CT56FL64B	Price
2	1-1/4	4	6-1/2	8	-	-	CT41FL64BU	Price	CT51FL64	Price	-	-	-	-

Multi-Flute Extra Long Single End Mills



Center Cutting • Non-Center Cutting • High Speed Steel

Pro-Cut — General purpose economy
Pro-Cut II — Premium quality import
RapidKut — Precision made by one of America's largest manufacturers

Price		Price		Price	RAPIDKUT				ProCut II		ProCut	
					Center Cutting		Non-Center Cutting		Center Cutting		Center Cutting	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/4	3/8	1-3/4	3-9/16	4	CT32FX8U	Price	CT42FX8U	Price	CT22FX8P	Price	CT57FX8	Price
5/16	3/8	2	3-3/4	4	CT32FX10U	Price	CT42FX10U	Price	CT22FX10P	Price	CT57FX10	Price
3/8	3/8	2-1/2	4-1/4	4	CT32FX12U	Price	CT42FX12U	Price	CT22FX12P	Price	CT57FX12	Price
1/2	1/2	3	5	4	CT32FX16U	Price	CT42FX16U	Price	CT22FX16P	Price	CT57FX16	Price
5/8	5/8	4	6-1/8	4	CT32FX20U	Price	CT42FX20U	Price	CT22FX20P	Price	CT57FX20	Price
3/4	1/2	4	6-1/4	4	-	-	-	-	-	-	CT57FX24X	Price
3/4	3/4	4	6-1/4	4	CT32FX24U	Price	CT42FX24U	Price	CT22FX24P	Price	CT57FX24	Price
7/8	7/8	5	7-1/4	4	-	-	-	-	CT22FX28P	Price	-	-
1	1	6	8-1/2	4	CT32FX32U	Price	CT42FX32U	Price	CT22FX32P	Price	-	-
1-1/4	1-1/4	6	8-1/2	4	CT32FX40XU	Price	-	-	-	-	-	-
1-1/2	1-1/4	8	10-1/2	6	CT32FX48U†	197.90	CT42FX48U	Price	-	-	-	-

†Note: 6" flute length; 8" overall length

PROCUT Miniature 4 Flute Single End Mills



High Speed Steel • 3/16" Shank

Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
5/64	3/16	1/4	1-11/16	CP53005	Price
3/32	3/16	5/16	1-11/16	CP53006	Price
7/64	3/16	11/32	1-11/16	CP53007	Price
1/8	3/16	3/8	1-11/16	CP53008	Price
9/64	3/16	13/32	1-11/16	CP53009	Price
5/32	3/16	7/16	1-11/16	CP53010	Price
11/64	3/16	15/32	1-11/16	CP53011	Price
3/16	3/16	1/2	1-11/16	CP53012	Price

HSS M GP 4 Flute Double End Mills

High Speed Steel



				Center Cut		Non-Center Cut	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/8	3/8	3/8	3-1/16	**MT2244251**	Price	**MT2243266**	Price
9/64	3/8	7/16	3-1/8	**MT2243050**	Price	**MT2243286**	Price
5/32	3/8	7/16	3-1/8	**MT2243051**	Price	**MT2243267**	Price
11/64	3/8	1/2	3-1/4	**MT2243052**	Price	**MT2243287**	Price
3/16	3/8	1/2	3-1/4	**MT2244252**	Price	**MT2243268**	Price
13/64	3/8	9/16	3-1/4	**MT2243053**	Price	**MT2243288**	Price
7/32	3/8	9/16	3-1/4	**MT2243054**	Price	**MT2243269**	Price
15/64	3/8	5/8	3-3/8	**-**	-	**MT2243289**	Price
1/4	3/8	5/8	3-3/8	**MT2244253**	Price	**MT2243270**	Price
17/64	3/8	11/16	3-3/8	**MT2243056**	Price	**MT2243290**	Price
9/32	3/8	11/16	3-3/8	**MT2243057**	Price	**MT2243271**	Price
19/64	3/8	3/4	3-1/2	**MT2243058**	Price	**MT2243291**	Price
5/16	3/8	3/4	3-1/2	**MT2244254**	Price	**MT2243272**	Price
21/64	3/8	3/4	3-1/2	**MT2243059**	Price	**MT2243292**	Price
11/32	3/8	3/4	3-1/2	**MT2243060**	Price	**MT2243273**	Price
23/64	3/8	3/4	3-1/2	**MT2243061**	Price	**MT2243293**	Price
3/8	3/8	3/4	3-1/2	**MT2244255**	Price	**MT2243274**	Price
25/64	1/2	1	4-1/8	**MT2243062**	Price	**MT2243294**	Price
13/32	1/2	1	4-1/8	**MT2243063**	Price	**MT2243275**	Price
27/64	1/2	1	4-1/8	**MT2243064**	Price	**MT2243295**	Price
7/16	1/2	1	4-1/8	**MT2243065**	Price	**MT2243276**	Price
29/64	1/2	1	4-1/8	**MT2243066**	Price	**MT2243296**	Price
15/32	1/2	1	4-1/8	**MT2243067**	Price	**MT2243277**	Price
31/64	1/2	1	4-1/8	**MT2243068**	Price	**MT2243297**	Price
1/2	1/2	1	4-1/8	**MT2244256**	Price	**MT2243278**	Price
9/16	5/8	1-3/8	5	**MT2243069**	Price	**MT2243279**	Price
5/8	5/8	1-3/8	5	**MT2244257**	Price	**MT2243280**	Price
11/16	3/4	1-5/8	5-5/8	**MT2243070**	Price	**MT2243281**	Price
3/4	3/4	1-5/8	5-5/8	**MT2244258**	Price	**MT2243282**	Price
13/16	7/8	1-7/8	6-1/8	**-**	-	**MT2243283**	Price
7/8	7/8	1-7/8	6-1/8	**MT2244259**	Price	**MT2243284**	Price
15/16	1	1-7/8	6-3/8	**-**	-	**MT2243305**	Price
1	1	1-7/8	6-3/8	**MT2244260**	Price	**MT2243285**	Price

HSS M GP Multi-Flute Long Length Single End Mills

High Speed Steel



					Center Cut		Non-Center Cut	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price
3/16	3/8	1-1/4	3-1/16	4	**MT2244169**	Price	**-**	-
7/32	3/8	1-1/4	3-1/16	4	**MT2244170**	Price	**-**	-
1/4	3/8	1-1/4	3-1/16	4	**MT2244171**	Price	**MT2143776**	Price
9/32	3/8	1-3/8	3-1/8	4	**MT2244180**	Price	**-**	-
5/16	3/8	1-3/8	3-1/8	4	**MT2244172**	Price	**MT2143777**	Price
11/32	3/8	1-1/2	3-1/4	4	**MT2244181**	Price	**-**	-
3/8	3/8	1-1/2	3-1/4	4	**MT2244173**	Price	**-**	-
13/32	1/2	1-3/4	3-3/4	4	**MT2244182**	Price	**-**	-
7/16	1/2	1-3/4	3-3/4	4	**MT2244183**	Price	**MT2143779**	Price
15/32	1/2	2	4	4	**MT2244184**	Price	**-**	-
1/2	1/2	2	4	4	**MT2244174**	Price	**-**	-
5/8	5/8	2-1/2	4-5/8	4	**MT2244175**	Price	**MT2143781**	Price
3/4	3/4	3	5-1/4	4	**MT2244176**	Price	**MT2143782**	Price
7/8	7/8	3-1/2	5-3/4	4	**MT2244177**	Price	**MT2143783**	Price
1	1	4	6-1/2	4	**MT2244178**	Price	**MT2143784**	Price
1-1/8	1	4	6-1/2	4	**MT2244185**	Price	**-**	-
1-1/8	1	4	6-1/2	6	**-**	-	**MT2143785**	Price
1-1/4	1	4	6-1/2	4	**MT2244186**	Price	**-**	-
1-1/4	1	4	6-1/2	6	**-**	-	**MT2143786**	Price
1-1/4	1-1/4	4	6-1/2	6	**MT2244179**	Price	**MT2143787**	Price
1-1/2	1	4	6-1/2	4	**MT2244187**	Price	**-**	-
1-1/2	1	4	6-1/2	6	**-**	-	**MT2143789**	Price
1-1/2	1-1/4	4	6-1/2	4	**MT2244188**	Price	**-**	-
1-1/2	1-1/4	4	6-1/2	6	**-**	-	**MT2143790**	Price
1-3/4	1-1/4	4	6-1/2	6	**-**	-	**MT2143791**	Price
2	1-1/4	4	6-1/2	8	**MT2244190**	Price	**MT2143792**	Price

HSS M GP Multi-Flute Extra Long Single End Mills

High Speed Steel



					Center Cut		Non-Center Cut	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price
3/16	3/8	1-3/4	3-9/16	4	**MT2244199**	Price	**-**	-
1/4	3/8	1-3/4	3-9/16	4	**MT2244201**	Price	**MT2143826**	Price
9/32	3/8	2	3-3/4	4	**MT2244210**	Price	**-**	-
5/16	3/8	2	3-3/4	4	**MT2244202**	Price	**MT2143827**	Price
11/32	3/8	2-1/2	4-1/4	4	**MT2244211**	Price	**-**	-
3/8	3/8	2-1/2	4-1/4	4	**MT2244203**	Price	**MT2143828**	Price
15/32	1/2	3	4-11/16	4	**MT2244214**	Price	**-**	-
1/2	1/2	3	5	4	**MT2244204**	Price	**MT2143829**	Price
5/8	5/8	4	6-1/8	4	**MT2244205**	Price	**MT2143830**	Price
3/4	3/4	4	6-1/4	4	**MT2244206**	Price	**MT2143831**	Price
7/8	7/8	5	7-1/4	4	**MT2244207**	Price	**MT2143832**	Price
1	1	6	8-1/2	4	**MT2244208**	Price	**MT2143833**	Price
1-1/4	1-1/4	4	8-1/2	4	**MT2244209**	Price	**-**	-
1-1/2	1-1/4	8	10-1/2	6	**-**	-	**MT2143835**	Price

4-Flute Double-End Mills

High Speed Steel



				Rapidkut				ProCut II		ProCut			
				Center Cutting		Non-Center Cutting		Center Cutting		Price		Non-Center Cutting	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	3/8	3/8	3-1/16	**CR35B4U**	Price	**CR45B4U**	Price	**CR25B4P**	Price	**CR65B4**	Price	**-**	-
9/64	3/8	7/16	3-1/8	**-**	-	**-**	-	**-**	-	**CR65B964**	Price	**-**	-
5/32	3/8	7/16	3-1/8	**CR35B5U**	Price	**CR45B5U**	Price	**CR25B5P**	Price	**CR65B5**	Price	**CR55B5**	Price
11/64	3/8	1/2	3-1/4	**-**	-	**-**	-	**-**	-	**CR65B1164**	Price	**-**	-
3/16	3/8	1/2	3-1/4	**CR35B6U**	Price	**CR45B6U**	Price	**CR25B6P**	Price	**CR65B6**	Price	**CR55B6**	Price
13/64	3/8	9/16	3-1/4	**-**	-	**-**	-	**-**	-	**CR65B1364**	Price	**-**	-
7/32	3/8	9/16	3-1/4	**CR35B7U**	Price	**CR45B7U**	Price	**CR25B7P**	Price	**CR65B7**	Price	**CR55B7**	Price
15/64	3/8	5/8	3-3/8	**-**	-	**-**	-	**-**	-	**CR65B1564**	Price	**-**	-
1/4	3/8	5/8	3-3/8	**CR35B8U**	Price	**CR45B8U**	Price	**CR25B8P**	Price	**CR65B8**	Price	**-**	-
17/64	3/8	11/16	3-3/8	**-**	-	**-**	-	**-**	-	**CR65B1764**	Price	**-**	-
9/32	3/8	11/16	3-3/8	**CR35B9U**	Price	**CR45B9U**	Price	**CR25B9P**	Price	**CR65B9**	Price	**CR55B9**	Price
19/64	3/8	3/4	3-1/2	**-**	-	**-**	-	**-**	-	**CR65B1964**	Price	**-**	-
5/16	3/8	3/4	3-1/2	**CR35B10U**	Price	**CR45B10U**	Price	**CR25B10P**	Price	**CR65B10**	Price	**-**	-
21/64	3/8	3/4	3-1/2	**-**	-	**-**	-	**-**	-	**CR65B2164**	Price	**-**	-
11/32	3/8	3/4	3-1/2	**CR35B11U**	Price	**CR45B11U**	Price	**CR25B11P**	Price	**CR65B11**	Price	**CR55B11**	Price
23/64	3/8	3/4	3-1/2	**-**	-	**-**	-	**-**	-	**CR65B2364**	Price	**-**	-
3/8	3/8	3/4	3-1/2	**CR35B12U**	Price	**CR45B12U**	Price	**CR25B12P**	Price	**CR65B12**	Price	**-**	-
25/64	1/2	1	4-1/8	**-**	-	**-**	-	**-**	-	**CR65B2564**	Price	**-**	-
13/32	1/2	1	4-1/8	**CR35B13U**	Price	**CR45B13U**	Price	**CR25B13P**	Price	**CR65B13**	Price	**-**	-
27/64	1/2	1	4-1/8	**-**	-	**-**	-	**-**	-	**CR65B2764**	Price	**-**	-
7/16	1/2	1	4-1/8	**CR35B14U**	Price	**CR45B14U**	Price	**CR25B14P**	Price	**CR65B14**	Price	**-**	-
29/64	1/2	1	4-1/8	**-**	-	**-**	-	**-**	-	**CR65B2964**	Price	**-**	-
15/32	1/2	1	4-1/8	**CR35B15U**	Price	**CR45B15U**	Price	**CR25B15P**	Price	**CR65B15**	Price	**CR55B15**	Price
31/64	1/2	1	4-1/8	**-**	-	**-**	-	**-**	-	**CR65B3164**	Price	**-**	-
1/2	1/2	1	4-1/8	**CR35B16U**	Price	**CR45B16U**	Price	**CR25B16P**	Price	**CR65B16**	Price	**-**	-
17/32	5/8	1-3/8	5	**-**	-	**CR45B17U**	Price	**-**	-	**CR65B17**	Price	**-**	-
9/16	5/8	1-3/8	5	**CR35B18U**	Price	**CR45B18U**	Price	**CR25B18P**	Price	**CR65B18**	Price	**CR55B18**	Price
19/32	5/8	1-3/8	5	**-**	-	**-**	-	**-**	-	**CR65B19**	Price	**-**	-
5/8	5/8	1-3/8	5	**CR35B20U**	Price	**CR45B20U**	Price	**CR25B20P**	Price	**CR65B20**	Price	**-**	-
21/32	3/4	1-5/8	5-5/8	**-**	-	**CR45B21U**	Price	**-**	-	**CR65B21**	Price	**-**	-
11/16	3/4	1-5/8	5-5/8	**-**	-	**CR45B22U**	Price	**CR25B22P**	Price	**CR65B22**	Price	**CR55B22**	Price
23/32	3/4	1-5/8	5-5/8	**-**	-	**-**	-	**-**	-	**CR65B23**	Price	**-**	-
3/4	3/4	1-5/8	5-5/8	**CR35B24U**	Price	**CR45B24U**	Price	**CR25B24P**	Price	**CR65B24**	Price	**-**	-
13/16	7/8	1-7/8	6-1/8	**-**	-	**CR45B26U**	Price	**CR25B26P**	Price	**CR65B26**	Price	**CR55B26**	Price
7/8	7/8	1-7/8	6-1/8	**CR35B28U**	Price	**CR45B28U**	Price	**CR25B28P**	Price	**CR65B28**	Price	**CR55B28**	Price
29/32	1	1-7/8	6-3/8	**-**	-	**CR45B29U**	Price	**-**	-	**-**	-	**-**	-
15/16	1	1-7/8	6-3/8	**-**	-	**-**	-	**CR25B30P**	Price	**CR65B30**	Price	**CR55B30**	Price
31/32	1	1-7/8	6-3/8	**-**	-	**CR45B31U**	Price	**-**	-	**-**	-	**-**	-
1	1	1-7/8	6-3/8	**CR35B32U**	Price	**CR45B32U**	Price	**CR25B32P**	Price	**CR65B32**	Price	**CR55B32**	Price

High Speed Steel Center Cutting TiN Coated End Mills

- TiN coating increases surface hardness and protects the tool from abrasive wear to increase tool life
- Facilitates chip flow, resists galling and reduces heat generated in the metal removal process
- Allows for elevated feeds and speeds to increase your productivity

TiN Coated 2-Flute Single End

High Speed Steel • Center Cutting • Regular Length



PROCUT

				Rapidkut		ProCut	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/8	3/8	3/8	2-5/16	**CS35G4UT**	Price	**CS60G4TN**	Price
3/16	3/8	7/16	2-5/16	**CS35G6UT**	Price	**CS60G6TN**	Price
1/4	3/8	1/2	2-5/16	**CS35G8UT**	Price	**CS60G8TN**	Price
5/16	3/8	9/16	2-5/16	**CS35G10UT**	Price	**CS60G10TN**	Price
3/8	3/8	9/16	2-5/16	**CS35G12UT**	Price	**CS60G12TN**	Price
7/16	3/8	13/16	2-1/2	**CS35G14UT**	Price	**CS60G14TN**	Price
1/2	1/2	1	3	**CS35G16UT**	Price	**CS60G16TN**	Price
5/8	5/8	1-5/16	3-7/16	**CS35G20UT**	Price	**CS60G20TN**	Price
3/4	5/8	1-5/16	3-7/16	**CS35G24UT**	Price	**CS60G24TN**	Price
3/4	3/4	1-5/16	3-9/16	**CS35G24WUT**	Price	**CS60G24WTN**	Price
1	3/4	1-1/2	3-3/4	**CS35G32WUT**	Price	**CS60G32WTN**	Price
1	1	1-5/8	4-1/8	**CS35G32UT**	Price	**CS60G32TN**	Price

TiN Coated 2-Flute Double End

High Speed Steel • Center Cutting



PROCUT

				Rapidkut		ProCut	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/8	3/8	3/8	3-1/16	**CR42C4UT**	Price	**CR60C4TN**	Price
3/16	3/8	7/16	3-1/8	**CR42C6UT**	Price	**CR60C6TN**	Price
1/4	3/8	1/2	3-1/8	**CR42C8UT**	Price	**CR60C8TN**	Price
5/16	3/8	9/16	3-1/8	**CR42C10UT**	Price	**CR60C10TN**	Price
3/8	3/8	9/16	3-1/8	**CR42C12UT**	Price	**CR60C12TN**	Price
7/16	1/2	13/16	3-3/4	**CR42C14UT**	Price	**CR60C14TN**	Price
1/2	1/2	13/16	3-3/4	**CR42C16UT**	Price	**CR60C16TN**	Price
5/8	5/8	1-1/8	4-1/2	**CR42C20UT**	Price	**CR60C20TN**	Price
3/4	3/4	1-5/16	5	**CR42C24UT**	Price	**CR60C24TN**	Price
1	1	1-5/8	5-7/8	**CR42C32UT**	Price	**CR60C32TN**	Price

PROCUT TiN Coated Single End Mill Sets

Center Cutting • High Speed Steel



No. of Pieces	No. of Flutes	Set Range (in.)	Order No.	Price
6	2	1/8, 3/16, 1/4, 5/16, 3/8, 1/2	**DB50G6TNS**	Price
6	4	1/8, 3/16, 1/4, 5/16, 3/8, 1/2	**DB50F6TNS**	Price
9	4	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 11/16, 3/4	**DB50F9TNS**	Price
10	4	1/8, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 11/16, 3/4, 1	**DB50F10TNS**	Price

TiN Coated 4-Flute Single End

High Speed Steel • Center Cutting • Regular Length



PROCUT

				Rapidkut		ProCut	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/8	3/8	3/8	2-5/16	**CT25F4UT**	Price	**CT65F4TN**	Price
3/16	3/8	1/2	2-3/8	**CT25F6UT**	Price	**CT65F6TN**	Price
1/4	3/8	5/8	2-7/16	**CT25F8UT**	Price	**CT65F8TN**	Price
5/16	3/8	3/4	2-1/2	**CT25F10UT**	Price	**CT65F10TN**	Price
3/8	3/8	3/4	2-1/2	**CT25F12UT**	Price	**CT65F12TN**	Price
7/16	3/8	1	2-11/16	**CT25F14UT**	Price	**CT65F14TN**	Price
1/2	1/2	1-1/4	3-1/4	**CT25F16UT**	Price	**CT65F16TN**	Price
5/8	5/8	1-5/8	3-3/4	**CT25F20UT**	Price	**CT65F20TN**	Price
11/16	5/8	1-5/8	3-3/4	-	-	**CT65F22TN**	Price
3/4	3/4	1-5/8	3-7/8	**CT25F24WUT**	Price	**CT65F24WTN**	Price
7/8	3/4	1-7/8	4-1/8	**CT25F28WUT**	Price	**CT65F28WTN**	Price
1	3/4	1-7/8	4-1/8	**CT25F32WUT**	Price	**CT65F32WTN**	Price
1	1	2	4-1/2	**CT25F32YUT**	Price	**CT65F32YTN**	Price

TiN Coated 4-Flute Double End

High Speed Steel • Center Cutting



PROCUT

				Rapidkut		ProCut	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/8	3/8	3/8	3-1/16	**CR36B4UT**	Price	**CR75B4TN**	Price
3/16	3/8	1/2	3-1/4	**CR36B6UT**	Price	**CR75B6TN**	Price
1/4	3/8	5/8	3-3/8	**CR36B8UT**	Price	**CR75B8TN**	Price
5/16	3/8	3/4	3-1/2	**CR36B10UT**	Price	**CR75B10TN**	Price
3/8	3/8	3/4	3-1/2	**CR36B12UT**	Price	**CR75B12TN**	Price
7/16	1/2	1	4-1/8	**CR36B14UT**	Price	**CR75B14TN**	Price
1/2	1/2	1	4-1/8	**CR36B16UT**	Price	**CR75B16TN**	Price
5/8	5/8	1-3/8	5	**CR36B20UT**	Price	**CR75B20TN**	Price
3/4	3/4	1-5/8	5-5/8	**CR36B24UT**	Price	**CR75B24TN**	Price
1	1	1-7/8	6-3/8	**CR36B32UT**	Price	**CR75B32TN**	Price

PROCUT TiN Coated Double End Mill Sets

Center Cutting • High Speed Steel



No. of Flutes	No. of Pieces	Set Range (in.)	Order No.	Price
2	6	1/8, 3/16, 1/4, 5/16, 3/8, 1/2	**DB50C6TNS**	Price
4	6	1/8, 3/16, 1/4, 5/16, 3/8, 1/2	**DB50B6TNS**	Price

PROCUT 20 Pc.TiN Coated Single End Mill Set

Center Cutting • High Speed Steel

- Includes one each in 2 and 4 flute: 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4”
- Complete with fitted wooden case



Order No.	Price
DB50TC20E	Price

6 Pc. Single End Mill Sets

- 1 Each of: 1/8, 3/16, 1/4, 5/16, 3/8, 1/2”
- High speed steel & cobalt



Set Material - High Speed Steel No. of Flutes - 2		
Brand Name	**Order No.**	**Price**
Morse Cutting Tools	**MT2245025**	Price
Rapidkut	**DB40AG6S**	Price
ProCut II	**DB50PG6S**	Price
ProCut	**DB50G6S**	Price

Set Material - High Speed Steel No. of Flutes - 4		
Brand Name	**Order No.**	**Price**
Morse Cutting Tools	**MT2245020**	Price
Rapidkut	**DB40AF6S**	Price
ProCut II	**DB50PF6S**	Price
ProCut	**DB50F6S**	Price

Set Material - M-42 Cobalt No. of Flutes - 2		
Brand Name	**Order No.**	**Price**
ProCut	**DB50TG6S**	Price

Set Material - M-42 Cobalt No. of Flutes - 4		
Brand Name	**Order No.**	**Price**
ProCut II	**DB50TF6S**	Price

6 Pc. 2 Flute & Multi-Flute 3/4" Shank End Mill Sets for Bridgeports

- 1 Each of: 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-1/2”
- High speed steel



No. of Flutes - 2		
Brand Name	**Order No.**	**Price**
ProCut	**DB50GW6S**	Price
ProCut II	**DB50PGW6S**	Price

No. of Flutes - Multi-Flute		
Brand Name	**Order No.**	**Price**
ProCut II	**DB50PFW6S**	Price
Morse Cutting Tools	**MT2245021**	Price
ProCut	**DB50FW6S**	Price

6 Pc. Ball Nose End Mill Sets, Single End

- 1 Each of: 1/8, 3/16, 1/4, 5/16, 3/8, 1/2”
- High speed steel
- 2 Flute



Brand Name	Type	Order No.	Price
Morse Cutting Tools	Single-End End Mills	**MT2245001**	Price
ProCut	Double-End End Mills	**DB50BNS6S**	Price
ProCut	Single-End End Mills	**DB50BNR6S**	Price

6 Pc. Double End Mill Sets

- 1 Each of: 1/8, 3/16, 1/4, 5/16, 3/8, 1/2”
- High speed steel & cobalt



No. of Flutes - 2 Set Material - High Speed Steel		
Brand Name	**Order No.**	**Price**
Morse Cutting Tools	**MT2245015**	Price
Rapidkut	**DB40AC6S**	Price
ProCut II	**DB50PC6S**	Price
ProCut	**DB50C6S**	Price

No. of Flutes - 4 Set Material - High Speed Steel		
Brand Name	**Order No.**	**Price**
Morse Cutting Tools	**MT2245010**	Price
Rapidkut	**DB40AB6S**	Price
ProCut II	**DB50PB6S**	Price
ProCut	**DB50B6S**	Price

No. of Flutes - 4 Set Material - M-42 Cobalt		
Brand Name	**Order No.**	**Price**
ProCut II	**DB50TB6S**	Price

PROCUT 4 Pc. 2 Flute Single End Aluminum Cutting Set

- 1 Each of: 1/4, 5/16, 3/8, 1/2”
- High speed steel



Order No.	Price
DB50A4S	Price

PROCUT 4 Pc. 4 Flute Single End Ball Nose End Mill Set

- 1 Each of: 1/4, 5/16, 3/8, 1/2”
- High speed steel



Order No.	Price
DB50BM4S	Price

5 Pc. 2 & 4 Flute Miniature Double End 3/16" Shank End Mill Sets

- 1 Each of: 1/16, 3/32, 1/8, 5/32, 3/16”
- High speed steel & M-42 8% cobalt



No. of Flutes - 2 Set Material - High Speed Steel		
Brand Name	**Order No.**	**Price**
ProCut	**DB50CS5S**	Price

No. of Flutes - 2 Set Material - M-42 Cobalt		
Brand Name	**Order No.**	**Price**
ProCut II	**DB50TCS6S**	Price

No. of Flutes - 4 Set Material - M-42 Cobalt		
Brand Name	**Order No.**	**Price**
ProCut II	**DB50TBS5S**	Price

2-Flute Single End Mills

M42 Cobalt • Center Cutting • Regular Length



- For the tougher cutting assignments on hi-strength, hi-temp steels and exotic materials or extended production runs in conventional and N/C milling operations

RAPIDKUT PRODUCT

				Morse Cutting Tools		Rapidkut		OSG USA, Inc.		Price	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	3/8	3/8	2-5/16	MT2544376	Price	CY25TG4U	Price	TP365200100	Price	CY53TG4	Price
3/16	3/8	7/16	2-3/8	-	-	CY25TG6U	Price	-	-	-	-
3/16	3/8	7/16	2-5/16	MT2544377	Price	-	-	TP365200200	Price	CY53TG6	Price
7/32	3/8	1/2	2-5/16	-	-	-	-	-	-	CY53TG7	Price
7/32	3/8	1/2	2-7/16	-	-	CY25TG7U	Price	-	-	-	-
1/4	3/8	1/2	2-5/16	MT2544378	Price	-	-	TP365200300	Price	CY53TG8	Price
1/4	3/8	1/2	2-7/16	-	-	CY25TG8U	Price	-	-	-	-
9/32	3/8	9/16	2-5/16	-	-	-	-	-	-	CY53TG9	Price
5/16	3/8	9/16	2-1/2	-	-	CY25TG10U	Price	-	-	-	-
5/16	3/8	9/16	2-5/16	MT2544379	Price	-	-	TP365200400	Price	CY53TG10	Price
11/32	3/8	9/16	2-1/2	-	-	CY25TG11U	Price	-	-	-	-
11/32	3/8	9/16	2-5/16	-	-	-	-	-	-	CY53TG11	Price
3/8	3/8	9/16	2-1/2	-	-	CY25TG12U	Price	-	-	-	-
3/8	3/8	9/16	2-5/16	MT2544380	Price	-	-	TP365200500	Price	CY53TG12	Price
13/32	3/8	13/16	2-1/2	-	-	-	-	-	-	CY53TG13	Price
13/32	3/8	13/16	2-11/16	-	-	CY25TG13U	Price	-	-	-	
Price	3/8	13/16	2-1/2	-	-	-	-	-	-	CY53TG14	Price
7/16	3/8	13/16	2-11/16	-	-	CY25TG14U	Price	-	-	-	-
15/32	3/8	13/16	2-1/2	-	-	-	-	-	-	CY53TG15	Price
1/2	1/2	1	3	MT2544381	Price	-	-	TP365201100	Price	CY53TG16	Price
1/2	1/2	1	3-1/4	-	-	CY25TG16U	Price	-	-	-	-
1/2	3/8	13/16	2-1/2	-	-	-	-	-	-	CY53TG16X	Price
9/16	1/2	1-1/8	3-1/8	-	-	-	-	-	-	CY53TG18	Price
5/8	1/2	1-1/8	3-1/8	-	-	-	-	-	-	CY53TG20X	Price
5/8	5/8	1-5/16	3-7/16	MT2544382	Price	-	-	TP365202100	Price	CY53TG20	Price
5/8	5/8	1-5/16	3-3/4	-	-	CY25TG20U	Price	-	-	-	-
11/16	5/8	1-5/16	3-7/16	-	-	CY25TG22U	Price	-	-	CY53TG22	Price
3/4	1/2	1-5/16	3-5/16	-	-	-		Price	-	CY53TG24X	Price
3/4	3/4	1-5/16	3-9/16	MT2544383	Price	-	-	TP365203100	Price	CY53TG24W	Price
3/4	5/8	1-5/16	3-7/16	-	-	CY25TG24U	Price	-	-	CY53TG24	Price
3/4	3/4	1-5/16	3-7/8	-	-	CY25TG24WU	Price	-	-	-	-
7/8	5/8	1-1/2	3-5/8	-	-	CY25TG28XU	Price	-	-	CY53TG28X	Price
7/8	3/4	1-1/2	3-3/4	-	-	CY25TG28WU	Price	-	-	CY53TG28W	Price
7/8	7/8	1-1/2	3-3/4	-	-	-	-	-	-	CY53TG28	Price
1	1	1-5/8	4-1/8	MT2544384	Price	-	-	TP365205100	Price	CY53TG32	Price
1	5/8	1-1/2	3-5/8	-	-	-	-	-	-	CY53TG32X	Price
1	3/4	1-1/2	3-3/4	-	-	CY25TG32WU	Price	-	-	CY53TG32W	Price
1	7/8	1-1/2	3-3/4	-	-	-	-	-	-	CY53TG32Y	Price
1	1	1-5/8	4-1/2	-	-	CY25TG32U	Price	-	-	-	-
1-1/8	1	1-5/8	4-1/8	-	-	-	-	-	-	CY53TG36	Price
1-1/8	3/4	1-1/2	3-3/4	-	-	-	-	-	-	CY53TG36W	Price
1-1/4	1-1/4	1-5/8	4-1/8	MT2544385	Price	CY25TG40U	Price	TP365206100	Price	CY53TG40	Price
1-1/4	3/4	1-5/8	3-7/8	-	-	-	-	-	-	CY53TG40W	Price
1-1/4	1	1-5/8	4-1/8	-	-	-	-	-	-	CY53TG40Z	Price
1-3/8	1	1-5/8	4-1/8	-	-	-	-	-	-	CY53TG44	Price
1-3/8	1-1/4	1-5/8	4-1/8	-	-	-	-	-	-	CY53TG44X	Price
1-1/2	1-1/4	1-5/8	4-1/8	MT2544386	Price	CY25TG48XU	Price	TP365206200	Price	CY53TG48X	Price
1-1/2	3/4	1-5/8	4	-	-	-	-	-	-	CY53TG48W	Price
1-1/2	1	1-5/8	4-1/8	-	-	-	-	-	-	CY53TG48	Price
1-3/4	1-1/4	1-5/8	4-1/8	-	-	-	-	-	-	CY53TG56	Price
2	1-1/4	1-5/8	4-1/8	-	-	-	-	-	-	CY53TG64	Price

PRODUCT M-42 Cobalt Extension Type 2-Flute Single End Mills

Center Cutting

Dia. (in.)	Shank Dia. (in.)	Length Below Shank (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	3/8	13/16	3/8	2-3/8	CY54TGL4	Price
1/4	3/8	1-1/2	5/8	3-1/16	CY54TGL8	Price
5/16	3/8	1-3/4	3/4	3-5/16	CY54TGL10	Price
3/8	3/8	1-3/4	3/4	3-5/16	CY54TGL12	Price
1/2	1/2	2-7/32	1	4	CY54TGL16	Price



Dia. (in.)	Shank Dia. (in.)	Length Below Shank (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
5/8	5/8	2-23/32	1-3/8	4-5/8	CY54TGL20	Price
3/4	3/4	3-11/32	1-5/8	5-3/8	CY54TGL24	Price
1	1	4-31/32	2-1/2	7-1/4	CY54TGL32	Price

M-42 8% Cobalt 4-Flute Double End Mills

Center Cutting



RAPIDKUT® | PROCUT

				Morse Cutting Tools		Rapidkut		OSG USA, Inc.		ProCut	
				Center Cut		Center Cut		Center Cut		Price	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	3/8	3/8	3-1/16	MT2544580	Price	CY10TB4U	Price	TP365430100	Price	CY65TB4	Price
5/32	3/8	7/16	3-1/4	-	-	CY10TB5U	Price	-	-	-	-
3/16	3/8	1/2	3-1/4	MT2544582	Price	CY10TB6U	Price	TP365430200	Price	CY65TB6	Price
7/32	3/8	9/16	3-1/4	-	-	CY10TB7U	Price	-	-	-	-
1/4	3/8	5/8	3-3/8	MT2544584	Price	CY10TB8U	Price	TP365430300	Price	CY65TB8	Price
9/32	3/8	11/16	3-3/8	-	-	CY10TB9U	Price	-	-	CY65TB9	Price
5/16	3/8	3/4	3-1/2	MT2544586	Price	CY10TB10U	Price	TP365430400	Price	CY65TB10	Price
11/32	3/8	3/4	3-1/2	-	-	CY10TB11U	Price	-	-	CY65TB11	Price
3/8	3/8	3/4	3-1/2	MT2544588	Price	CY10TB12U	Price	TP365430500	Price	CY65TB12	Price
13/32	1/2	1	4-1/8	-	-	CY10TB13U	Price	-	-	CY65TB13	Price
7/16	1/2	1	4-1/8	-	-	CY10TB14U	Price	-	-	CY65TB14	Price
1/2	1/2	1	4-1/8	MT2544591	Price	CY10TB16U	Price	TP365431100	Price	CY65TB16	Price
9/16	5/8	1-3/8	5	-	-	-	-	-	-	CY65TB18	Price
5/8	5/8	1-3/8	5	MT2544593	Price	CY10TB20U	Price	TP365432100	Price	CY65TB20	Price
11/16	3/4	1-5/8	5-5/8	-	-	-	-	-	-	CY65TB22	Price
3/4	3/4	1-5/8	5-5/8	MT2544594	Price	CY10TB24U	Price	TP365433100	Price	CY65TB24	Price
7/8	7/8	1-7/8	6-1/8	MT2544595	Price	-	-	TP365434100	Price	CY65TB28	Price
1	1	1-7/8	6-3/8	MT2544596	Price	CY10TB32U	Price	TP365435100	Price	CY65TB32	Price

M-42 8% Cobalt 2-Flute Double End Mills



RAPIDKUT® | PROCUT

				Morse Cutting Tools		Rapidkut		Price		ProCut	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	3/8	3/8	3-1/16	MT2544560	Price	CY15TC4U	Price	TP365220100	Price	CY56TC4	Price
5/32	3/8	7/16	3-1/8	-	-	-	-	-	-	CY56TC5	Price
3/16	3/8	7/16	3-1/4	-	-	CY15TC6U	Price	-	-	-	-
3/16	3/8	7/16	3-1/8	MT2544562	Price	-	-	TP365220200	Price	CY56TC6	Price
7/32	3/8	1/2	3-1/8	-	-	-	-	-	-	CY56TC7	Price
1/4	3/8	1/2	3-1/8	MT2544564	Price	-	-	TP365220300	Price	CY56TC8	Price
1/4	3/8	1/2	3-3/8	-	-	CY15TC8U	Price	-	-	-	-
9/32	3/8	9/16	3-1/8	-	-	-	-	-	-	CY56TC9	Price
5/16	3/8	9/16	3-1/2	-	-	CY15TC10U	Price	-	-	-	-
5/16	3/8	9/16	3-1/8	MT2544566	Price	-	-	TP365220400	Price	CY56TC10	Price
11/32	3/8	9/16	3-1/8	-	-	-	-	-	-	CY56TC11	Price
3/8	3/8	9/16	3-1/2	-	-	CY15TC12U	Price	-	-	-	-
3/8	3/8	9/16	3-1/8	MT2544568	Price	-	-	TP365220500	Price	CY56TC12	Price
13/32	1/2	13/16	3-3/4	-	-	CY15TC13U	Price	-	-	CY56TC13	Price
7/16	1/2	13/16	3-3/4	MT2544570	Price	CY15TC14U	Price	TP365229600	Price	CY56TC14	Price
15/32	1/2	13/16	3-3/4	-	-	CY15TC15U	Price	-	-	-	-
1/2	1/2	13/16	3-3/4	MT2544571	Price	-	-	TP365221100	Price	CY56TC16	Price
1/2	1/2	13/16	4-1/8	-	-	CY15TC16U	Price	-	-	-	-
17/32	5/8	1-1/8	4-1/2	-	-	CY15TC17U	Price	-	-	-	-
9/16	5/8	1-1/8	4-1/2	-	-	CY15TC18U	Price	-	-	CY56TC18	Price
5/8	5/8	1-1/8	4-1/2	MT2544573	Price	-	-	TP365222100	Price	CY56TC20	Price
5/8	5/8	1-1/8	5	-	-	CY15TC20U	Price	-	-	-	-
11/16	3/4	1-5/16	5	-	-	CY15TC22U	Price	-	-	CY56TC22	Price
3/4	3/4	1-5/16	5	MT2544574	Price	-	-	TP365223100	Price	CY56TC24	Price
3/4	3/4	1-5/16	5-5/8	-	-	CY15TC24U	Price	-	-	-	-
7/8	7/8	1-9/16	5-1/2	-	-	CY15TC28U	Price	TP365224100	Price	CY56TC28	Price
1	1	1-5/8	5-7/8	-	-	CY15TC32U	Price	TP365225100	Price	CY56TC32	Price

M-42 8% Cobalt Multi-Flute Single End Mills

Center Cutting



- For tougher cutting assignments on hi-strength, hi-temp steels and exotic materials or extended production runs in conventional and N/C milling operations

					Morse Cutting Tools		Rapidkut		OSG USA, Inc.		ProCut	
					Center Cut		Center Cut		Center Cutting		Center Cut	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	3/8	3/8	2-5/16	4	MT2544426	Price	CY20TF4U	Price	TP365410100	Price	CY60TF4	Price
5/32	3/8	1/2	2-3/8	4	-	-	CY20TF5U	Price	-	-	CY60TF5	Price
3/16	3/8	1/2	2-3/8	4	MT2544427	Price	CY20TF6U	Price	TP365410200	Price	CY60TF6	Price
7/32	3/8	9/16	2-7/16	4	-	-	CY20TF7U	Price	-	-	CY60TF7	Price
1/4	3/8	5/8	2-7/16	4	MT2544428	Price	CY20TF8U	Price	TP365410300	Price	CY60TF8	Price
1/4	3/8	1-1/4	3-1/16	4	-	-	CY21TFL8U	Price	-	-	CY61TFL8	Price
1/4	3/8	1-3/4	3-9/16	4	-	-	CY22TFX8U	Price	-	-	CY62TFX8	Price
9/32	3/8	3/4	2-1/2	4	-	-	CY20TF9U	Price	-	-	CY60TF9	Price
5/16	3/8	3/4	2-1/2	4	MT2544429	Price	CY20TF10U	Price	TP365410400	Price	CY60TF10	Price
5/16	3/8	1-3/8	3-1/8	4	-	-	CY21TFL10U	Price	-	-	CY61TFL10	Price
5/16	3/8	2	3-3/4	4	-	-	CY22TFX10U	Price	-	-	CY62TFX10	Price
3/8	3/8	3/4	2-1/2	4	MT2544430	Price	CY20TF12U	Price	TP365410500	Price	CY60TF12	Price
3/8	3/8	1-1/2	3-1/4	4	MT2544541	Price	CY21TFL12U	Price	TP365460500	Price	CY61TFL12	Price
3/8	3/8	2-1/2	4-1/4	4	MT2544520	Price	CY22TFX12U	Price	-	-	CY62TFX12	Price
7/16	3/8	1	2-11/16	4	-	-	CY20TF14U	Price	-	-	CY60TF14	Price
7/16	1/2	1-1/4	3-1/4	4	-	-	CY20TF14XU	Price	-	-	-	-
7/16	1/2	1-3/4	3-3/4	4	-	-	-	-	-	-	CY61TFL14	Price
15/32	3/8	1	2-11/16	4	-	-	-	-	-	-	CY60TF15X	Price
1/2	1/2	1-1/4	3-1/4	4	MT2544431	Price	CY20TF16U	Price	TP365411100	Price	CY60TF16	Price
1/2	3/8	1	2-11/16	4	-	-	CY20TF16XU	Price	-	-	CY60TF16X	Price
1/2	1/2	2	4	4	MT2544542	Price	CY21TFL16U	Price	TP365461100	Price	CY61TFL16	Price
1/2	1/2	3	5	4	MT2544521	Price	CY22TFX16U	Price	TP365581100	Price	CY62TFX16	Price
9/16	1/2	1-3/8	3-3/8	4	-	-	CY20TF18U	Price	-	-	CY60TF18	Price
5/8	1/2	1-3/8	3-3/8	4	-	-	-	-	-	-	CY60TF20X	Price
5/8	5/8	1-5/8	3-3/4	4	MT2544432	Price	CY20TF20U	Price	TP365412100	Price	CY60TF20	Price
5/8	5/8	1-5/8	3-3/4	6	MT2544433	Price	-	-	TP365412500	Price	-	-
5/8	5/8	2-1/2	4-5/8	4	MT2544543	Price	CY21TFL20U	Price	TP365462100	Price	CY61TFL20	Price
5/8	5/8	4	6-1/8	4	MT2544522	Price	CY22TFX20U	Price	TP365582100	Price	CY62TFX20	Price
11/16	5/8	1-5/8	3-3/4	4	-	-	CY20TF22XU	Price	-	-	CY60TF22	Price
3/4	1/2	1-5/8	3-5/8	4	-	-	-	-	-	-	CY60TF24X	Price
3/4	1/2	3	5-1/4	4	-	-	-	-	-	-	CY61TFL24X	Price
3/4	5/8	1-5/8	3-3/4	4	-	-	CY20TF24U	Price	-	-	CY60TF24	Price
3/4	3/4	1-5/8	3-7/8	4	MT2544434	Price	CY20TF24WU	Price	TP365413100	Price	CY60TF24W	Price
3/4	3/4	1-5/8	3-7/8	6	MT2544435	Price	-	-	TP365413500	Price	-	-
3/4	3/4	3	5-1/4	4	MT2544544	Price	CY21TFL24U	Price	TP365463100	Price	CY61TFL24	Price
3/4	3/4	3	5-1/4	6	MT2544545	Price	-	-	TP365463500	Price	-	-
3/4	3/4	4	6-1/4	4	MT2544523	Price	CY22TFX24U	Price	TP365583100	Price	CY62TFX24	Price
3/4	3/4	4	6-1/4	6	MT2544524	Price	-	-	TP365583500	Price	-	-
7/8	5/8	1-7/8	4	4	-	-	-	-	-	-	CY60TF28X	Price
7/8	3/4	1-7/8	4-1/8	4	-	-	CY20TF28WU	Price	-	-	CY60TF28W	Price
7/8	7/8	1-7/8	4-1/8	4	-	-	CY20TF28U	Price	-	-	CY60TF28	Price
7/8	7/8	3-1/2	5-3/4	4	-	-	CY21TFL28U	Price	-	-	CY61TFL28	Price
7/8	7/8	5	7-1/4	4	-	-	-	-	-	-	CY62TFX28	Price
1	5/8	1-7/8	3-7/8	4	-	-	-	-	-	-	CY60TF32X	Price
1	3/4	1-7/8	4-1/8	4	-	-	CY20TF32WU	Price	-	-	CY60TF32W	Price
1	1	2	4-1/2	4	MT2544436	Price	CY20TF32YU	Price	TP365415100	Price	CY60TF32Y	Price
1	1	2	4-1/2	6	MT2544437	Price	-	-	TP365415500	Price	-	-
1	1	4	6-1/2	4	MT2544546	Price	CY21TFL32U	Price	TP365465100	Price	CY61TFL32Y	Price
1	1	4	6-1/2	6	MT2544547	Price	-	-	TP365465500	Price	-	-
1	1	6	8-1/2	4	MT2544525	Price	CY22TFX32U	Price	TP365585100	Price	CY62TFX32	Price
1	1	6	8-1/2	6	-	-	-	-	TP365585500	Price	-	-
1-1/8	3/4	2	4-1/8	6	-	-	-	-	-	-	CY60TF36W	Price
1-1/8	1	2	4-1/2	6	-	-	-	-	-	-	CY60TF36	Price
1-1/4	3/4	2	4-1/2	6	-	-	-	-	-	-	CY60TF40W	Price
1-1/4	1	2	4-1/2	6	-	-	-	-	-	-	CY60TF40	Price
1-1/4	1-1/4	2	4-1/2	4	MT2544438	Price	CY20TF40U	Price	TP365416100	Price	-	-
1-1/4	1-1/4	2	4-1/2	6	MT2544439	Price	CY20TF40YU	Price	TP365416500	Price	CY60TF40Y	Price
1-1/4	1-1/4	4	6-1/2	4	MT2544548	Price	-	-	TP365466100	Price	-	-
1-1/4	1-1/4	4	6-1/2	6	MT2544549	Price	CY21TFL40U	Price	TP365466500	Price	CY61TFL40X	Price
1-1/4	1-1/4	6	8-1/2	4	MT2544527	Price	-	-	TP365586100	Price	-	-
1-1/4	1-1/4	6	8-1/2	6	-	-	-	-	TP365586500	Price	CY62TFX40	Price
1-1/2	3/4	2	4-1/2	6	-	-	-	-	-	-	CY60TF48W	Price
1-1/2	1	2	4-1/2	6	-	-	-	-	-	-	CY60TF48	Price
1-1/2	1-1/4	2	4-1/2	4	MT2544440	Price	CY20TF48U	Price	-	-	-	-
1-1/2	1-1/4	2	4-1/2	6	MT2544441	Price	-	-	TP365416600	Price	CY60TF48X	Price
1-1/2	1-1/4	4	6-1/2	6	-	-	-	-	-	-	CY61TFL48	Price
1-1/2	1-1/4	8	10-1/2	6	-	-	-	-	-	-	CY62TFX48	Price
1-3/4	3/4	2	4-1/2	6	-	-	-	-	-	-	CY60TF56W	Price
1-3/4	1-1/4	2	4-1/2	6	-	-	-	-	-	-	CY60TF56	Price
2	1-1/4	2	4-1/2	6	-	-	-	-	-	-	CY60TF64B	Price
-	-	-	-	-	-	-	-	-	-	-	-	-
2	1-1/4	4	6-1/2	8	-	-	-	-	-	-	CY61TFL64	Price

6 Pc. M-42 8% Cobalt End Mill Sets

Center Cutting

1 Each of: 1/8, 3/16, 1/4, 5/16, 3/8, 1/2”

No. of Flutes	Order No.	Price
2	DB50TG6S	Price
4	DB50TF6S	Price



2-Flute, Single End Ball Nose Mills

High Speed Steel • Center Cutting



RAPIDKUT® PROCUT

				Morse Cutting Tools		Rapidkut		ProCut	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/8	3/8	3/8	2-5/16	**MT2043111**	Price	**CX60R4U**	Price	**CX50R4**	Price
3/16	3/8	1/2	2-3/8	**MT2043112**	Price	**CX60R6U**	Price	**CX50R6**	Price
1/4	3/8	5/8	2-7/16	**MT2043113**	Price	**CX60R8U**	Price	**CX50R8**	Price
5/16	3/8	3/4	2-1/2	**MT2043114**	Price	**CX60R10U**	Price	**CX50R10**	Price
3/8	3/8	3/4	2-1/2	**MT2043115**	Price	**CX60R12U**	Price	**CX50R12**	Price
7/16	1/2	1	3	**MT2043116**	Price	**-**	-	**CX50R14**	Price
7/16	1/2	1	3-1/4	**-**	-	**CX60R14U**	Price	**-**	-
1/2	1/2	1	3	**MT2043117**	Price	**-**	-	**CX50R16**	Price
1/2	1/2	1	3-1/4	**-**	-	**CX60R16U**	Price	**-**	-
9/16	1/2	1	3	**MT2043118**	Price	**-**	-	**CX50R18**	Price
9/16	1/2	1-1/8	3-3/8	**-**	-	**CX60R18U**	Price	**-**	-
5/8	1/2	1-3/8	3-3/8	**-**	-	**-**	-	**CX50R20X**	Price
5/8	5/8	1-3/8	3-1/2	**MT2043120**	Price	**CX60R20U**	Price	**CX50R20**	Price
3/4	1/2	1-5/8	3-5/8	**-**	-	**-**	-	**CX50R24X**	Price
3/4	3/4	1-5/8	3-7/8	**MT2043122**	Price	**CX60R24U**	Price	**CX50R24**	Price
13/16	3/4	2	4-1/4	**-**	-	**-**	-	**CX50R26**	Price
7/8	3/4	2	4-1/4	**-**	-	**-**	-	**CX50R28Y**	Price
7/8	7/8	2	4-1/4	**MT2043123**	Price	**CX60R28U**	Price	**CX50R28**	Price
15/16	3/4	2-1/4	4-1/2	**-**	-	**-**	-	**CX50R30**	Price
1	3/4	2-1/4	4-1/2	**-**	-	**-**	-	**CX50R32Y**	Price
1	1	2-1/4	4-3/4	**MT2043124**	Price	**CX60R32U**	Price	**CX50R32**	Price
1-1/8	1	2-1/4	4-3/4	**MT2043125**	Price	**CX60R36U**	Price	**CX50R36**	Price
1-1/4	1-1/4	2-1/2	5	**MT2043126**	Price	**CX60R40U**	Price	**CX50R40**	Price
1-3/8	1-1/4	2-1/2	5	**-**	-	**-**	-	**CX50R44**	Price
1-1/2	1-1/4	2-1/2	5	**MT2043127**	Price	**CX60R48U**	Price	**CX50R48**	Price
2	1-1/4	2-1/2	5	**-**	-	**-**	-	**CX50R64**	Price

PROCUT 4-Flute, Single End Ball Nose Mills

High Speed Steel • Center Cutting • Regular & Long Length



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/4	3/8	1-1/4	3-1/16	**CX54MBL8**	Price
1/4	3/8	5/8	2-7/16	**CX53MB8**	Price
5/16	3/8	1-1/2	3-1/4	**CX54MBL10**	Price
5/16	3/8	3/4	2-1/2	**CX53MB10**	Price
3/8	3/8	1-1/2	3-1/4	**CX54MBL12**	Price
3/8	3/8	3/4	2-1/2	**CX53MB12**	Price
1/2	1/2	1-1/4	3-1/4	**CX53MB16**	Price
1/2	1/2	2	4	**CX54MBL16**	Price
5/8	5/8	1-5/8	3-3/4	**CX53MB20**	Price
5/8	5/8	2-1/2	4-5/8	**CX54MBL20**	Price
3/4	3/4	1-5/8	3-7/8	**CX53MB24**	Price
3/4	3/4	3	5-1/4	**CX54MBL24**	Price
7/8	7/8	1-7/8	4-1/8	**CX53MB28**	Price

Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1	1	2	4-1/2	**CX53MB32Y**	Price
1	1	4	6-1/2	**CX54MBL32**	Price
1	1	6	7-1/2	**CX54MBL32X**	Price
1-1/4	1-1/4	2	4-1/2	**CX53MB40Y**	Price
1-1/4	1-1/4	3	5-1/2	**CX54MBL40W**	Price
1-1/4	1-1/4	4	6-1/2	**CX54MBL40**	Price
1-1/4	1-1/4	6	8-1/2	**CX54MBL40Y†**	Price
1-1/2	1-1/4	2	4-1/2	**CX53MB48**	Price
1-1/2	1-1/4	4	6-1/2	**CX54MBL48†**	Price
1-1/2	1-1/4	6	8-1/2	**CX54MBL48X**	Price

†6 Flute

M-42 8% Cobalt

2 Flute, Ball End • Single End Mills • Center Cutting

- M-42 8% cobalt steel for the tougher cutting assignments on high-strength, high-temperature steels and exotic materials or extended production runs



				Morse Cutting Tools		OSG USA, Inc.	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/8	3/8	3/8	2-5/16	**MT2544401**	Price	**TP365210100**	Price
3/16	3/8	1/2	2-3/8	**MT2544402**	Price	**TP365210200**	Price
1/4	3/8	5/8	2-7/16	**MT2544403**	Price	**TP365210300**	Price
5/16	3/8	3/4	2-1/2	**MT2544404**	Price	**TP365210400**	Price
3/8	3/8	3/4	2-1/2	**MT2544405**	Price	**TP365210500**	Price
1/2	1/2	1	3	**MT2544406**	Price	**TP365211100**	Price
5/8	5/8	1-3/8	3-1/2	**MT2544407**	Price	**TP365212100**	Price
3/4	3/4	1-5/8	3-7/8	**MT2544408**	Price	**TP365213100**	Price
1	1	2-1/4	4-3/4	**MT2544409**	Price	**TP365215100**	Price
1-1/4	1-1/4	2-1/2	5	**MT2544410**	Price	**TP365216100**	Price
1-1/2	1-1/4	2-1/2	5	**MT2544411**	Price	**TP365216200**	Price

RAPIDKUT® 2 Flute M-42 8% Cobalt Ball End Double End Mills

Center Cutting • Regular Length

- For tougher cutting assignments on hi-strength, hi temp alloys and exotic materials or extended production runs in conventional and NC milling operations



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	3/8	3/8	3-1/16	**CY35TSR4U**	Price
3/16	3/8	7/16	3-1/8	**CY35TSR6U**	Price
1/4	3/8	1/2	3-1/8	**CY35TSR8U**	Price
5/16	3/8	9/16	3-1/8	**CY35TSR10U**	Price
3/8	3/8	9/16	3-1/8	**CY35TSR12U**	Price
7/16	1/2	13/16	3-3/4	**CY35TSR14U**	Price
1/2	1/2	13/16	3-3/4	**CY35TSR16U**	Price
5/8	5/8	1-1/8	4-1/2	**CY35TSR20U**	Price
1	1	1-5/8	5-7/8	**CY35TSR32U**	Price

4 Flute Stub Length Double End Mills
3/16" Shank • Center Cutting • Cobalt



HSS M GP PROCUT

			Morse Cutting Tools		ProCut	
Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/16	3/32	2	MT2544126	Price	-	-
3/32	9/64	2	MT2544128	Price	CP77006	Price
7/64	9/64	2	-	-	CP77007	Price
1/8	3/16	2	MT2544130	Price	-	-
9/64	7/32	2	-	-	CP77009	Price
5/32	15/64	2	MT2544132	Price	CP77010	Price
3/16	9/32	2	MT2544134	Price	CP77012	Price

4-Flute Regular Length Double End Mills
3/16" Shank • Center Cutting • High Speed Steel



HSS M GP PROCUT

			Morse Cutting Tools		ProCut	
Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/16	3/16	2-1/4	MT2643261	Price	CR56BS2	Price
5/64	15/64	2-1/4	-	-	CR56BS564	Price
3/32	9/32	2-1/4	MT2643262	Price	CR56BS3	Price
7/64	5/16	2-1/4	-	-	CR56BS764	Price
1/8	3/8	2-1/4	MT2643263	Price	CR56BS4	Price
9/64	3/8	2-1/4	-	-	CR56BS964	Price
5/32	7/16	2-1/4	MT2643264	Price	CR56BS5	Price
11/64	7/16	2-1/4	-	-	CR56BS1164	Price
3/16	1/2	2-1/4	MT2643265	Price	CR56BS6	Price

4-Flute Long Length Double End Mills
3/16" Shank • Center Cutting • High Speed Steel



HSS M GP PROCUT

			Morse Cutting Tools		ProCut	
Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/16	7/32	2-1/2	MT2643241	Price	CR57BX2	Price
5/64	1/4	2-1/2	-	-	CR57BX564	Price
3/32	9/32	2-5/8	MT2643242	Price	CR57BX3	Price
7/64	9/32	2-5/8	-	-	CR57BX764	Price
1/8	3/4	3-1/8	MT2643243	Price	CR57BX4	Price
9/64	3/4	3-1/8	-	-	CR57BX964	Price
5/32	7/8	3-1/4	MT2643244	Price	CR57BX5	Price
11/64	7/8	3-1/4	-	-	CR57BX1164	Price
3/16	1	3-3/8	MT2643245	Price	CR57BX6	Price

PREMIER HP HIGH PERFORMANCE S-Kut

2-Flute Single End Mills
Cobalt • Alcrona Coated



- Excellent at dry milling with high speed cutting
- Improved edge performance & wear resistance
- Fine surface finish
- Excellent results up to HRC 50-53
- Alcrona coated has oxidation resistance up to 1100°C

Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price
1/8	3/8	3/8	2-5/16	2	CR80GB030008	Price
5/32	3/8	7/16	2-5/16	2	CR80GB030010	Price
3/16	3/8	7/16	2-5/16	2	CR80GB030012	Price
7/32	3/8	1/2	2-5/16	2	CR80GB030014	Price
1/4	3/8	1/2	2-5/16	2	CR80GB030016	Price
9/32	3/8	9/16	2-5/16	2	CR80GB030018	Price
5/16	3/8	9/16	2-5/16	2	CR80GB030020	Price
3/8	3/8	9/16	2-5/16	2	CR80GB030024	Price
7/16	3/8	13/16	2-1/2	2	CR80GB030028	Price
1/2	1/2	1	3	2	CR80GB030032	Price

PREMIER HP HIGH PERFORMANCE S-Kut

4-Flute Single End Mills
Cobalt • Alcrona Coated



- Excellent at dry milling with high speed cutting
- Improved edge performance and wear resistance
- Fine surface finish
- Excellent results up to HRC 50-53
- Alcrona coating has oxidation resistance up to 1100°C

Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price
1/8	3/8	3/8	2-5/16	4	CR80GB039008	Price
5/32	3/8	7/16	2-3/8	4	CR80GB039010	Price
3/16	3/8	1/2	2-3/8	4	CR80GB039012	Price
7/32	3/8	9/16	2-7/16	4	CR80GB039014	Price
1/4	3/8	5/8	2-7/16	4	CR80GB039016	Price
9/32	3/8	11/16	2-1/2	4	CR80GB039018	Price
5/16	3/8	3/4	2-1/2	4	CR80GB039020	Price
3/8	3/8	3/4	2-1/2	4	CR80GB039024	Price
7/16	1/2	1-1/4	3-1/4	4	CR80GB039028	Price
1/2	1/2	1-1/4	3-1/4	4	CR80GB039032	Price

PREMIER HP HIGH PERFORMANCE S-Kut

2 Flute Ball Nose Single End Mills
Cobalt • Alcrona Coated

- Excellent at dry milling with high speed cutting
- Fine surface finish
- Excellent results up to HRC 50-53
- Alcrona coating has oxidation resistance up to 1100°C



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price
1/8	3/8	3/8	2-5/16	2	CR80GB110008	Price
3/16	3/8	1/2	2-3/8	2	CR80GB110012	Price
1/4	3/8	5/8	2-7/16	2	CR80GB110016	Price
5/16	3/8	3/4	2-1/2	2	CR80GB110020	Price
3/8	3/8	3/4	2-1/2	2	CR80GB110024	Price
7/16	1/2	1	3	2	CR80GB110028	Price
1/2	1/2	1	3	2	CR80GB110032	Price

PREMIER HP HIGH PERFORMANCE S-Kut

Coarse Tooth Roughing End Mills
Cobalt • Alcrona Coated

- Excellent at dry milling with high speed cutting
- Fine surface finish
- Excellent results up to HRC 50-53
- Alcrona coating has oxidation resistance up to 1100°C



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price
1/4	3/8	5/8	2-7/16	3	CR80GB170016	Price
5/16	3/8	3/4	2-1/2	3	CR80GB170020	Price
3/8	3/8	3/4	2-1/2	4	CR80GB170024	Price
7/16	3/8	1	2-11/16	4	CR80GB170028	Price
1/2	1/2	1-1/4	3-1/4	4	CR80GB170032	Price

PREMIER HP HIGH PERFORMANCE S-Kut

Fine Tooth Roughing End Mills
Cobalt • Alcrona Coated

- Excellent at dry milling with high speed cutting
- Fine surface finish
- Excellent results up to HRC 50-53
- Alcrona coating has oxidation resistance up to 1100°C



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price
1/4	3/8	5/8	2-7/16	3	CR80GB189016	Price
5/16	3/8	3/4	2-1/2	3	CR80GB189020	Price
3/8	3/8	3/4	2-1/2	4	CR80GB189024	Price
7/16	3/8	1	2-11/16	4	CR80GB189028	Price
1/2	1/2	1-1/4	3-1/4	4	CR80GB189032	Price

RAPIDKUT® 3-Flute M-42 8% Cobalt Shearkut Spiral Single End Mills

60° High Spiral Design Cuts Cleanly & Efficiently

- Excellent resistance to heat and abrasion
- Improved machining in exotic materials — titanium, inconels, stainless steel, mold and die steels
- Excellent finishes due to less vibration
- Precision ground to CNC tolerances
- 200% to 500% more cutting power



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/4	3/8	5/8	2-7/16	**CV20SM8U**	Price
5/16	3/8	3/4	2-1/2	**CV20SM10U**	Price
3/8	3/8	3/4	2-1/2	**CV20SM12U**	Price
3/8	3/8	1-1/2	3-1/4	**CV20SML12U**	Price
1/2	1/2	1-1/4	3	**CV20SM16U**	Price
1/2	1/2	2	4	**CV20SML16U**	Price
5/8	5/8	1-5/8	3-3/4	**CV20SM20U**	Price
5/8	5/8	2-1/2	4-5/8	**CV20SML20U**	Price
3/4	3/4	1-5/8	3-7/8	**CV20SM24WU**	Price

Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
3/4	3/4	3	5-1/4	**CV20SML24U**	Price
7/8	3/4	1-7/8	4-1/8	**CV20SM28WU**	Price
7/8	7/8	3-1/2	5-3/4	**CV20SML28U**	Price
1	1	2	4-1/2	**CV20SM32YU**	Price
1	1	4	6-1/2	**CV20SML32U**	Price
1-1/4	1	2	4-1/2	**CV20SM40U**	Price
1-1/4	1-1/4	4	6-1/2	**CV20SML40AU**	Price
1-1/2	1-1/4	2	4-1/2	**CV20SM48AU**	Price
2	1-1/4	2	4-1/2	**CV20SM64AU**	Price

PROFIT CUT II M-42 Cobalt — Coarse Tooth Roughing End Mills

- For general purpose milling of soft to medium hard materials
- Suitable for heavier feed rates
- TiN coating improves tool life and allows elevated feeds and speeds
- TiCN coating is ideal for cutting extremely abrasive or difficult to cut materials



Length - Standard										
					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1/4	3/8	5/8	2-7/16	3	**CV50CR83**	Price	**CV70CR83**	Price	**CV72CR83**	Price
5/16	3/8	3/4	2-1/2	3	**CV50CR103**	Price	**CV70CR103**	Price	**CV72CR103**	Price
3/8	3/8	3/4	2-1/2	4	**CV50CR123**	Price	**CV70CR123**	Price	**CV72CR123**	Price
7/16	3/8	1	2-11/16	4	**CV50CR143**	Price	**CV70CR143**	Price	**CV72CR143**	Price
1/2	1/2	1-1/4	3-1/4	4	**CV50CR164**	Price	**CV70CR164**	Price	**CV72CR164**	Price
9/16	1/2	1-3/8	3-3/8	4	**CV50CR184**	Price	**CV70CR184**	Price	**CV72CR184**	Price
5/8	5/8	1-5/8	3-3/4	4	**CV50CR205**	Price	**CV70CR205**	Price	**CV72CR205**	Price
11/16	5/8	1-5/8	3-3/4	4	**CV50CR225**	Price	**CV70CR225**	Price	**CV72CR225**	Price
3/4	5/8	1-5/8	3-3/4	4	**CV50CR245**	Price	**CV70CR245**	Price	**CV72CR245**	Price
3/4	3/4	1-5/8	3-3/4	4	**CV50CR246**	Price	**CV70CR246**	Price	**CV72CR246**	Price
13/16	3/4	1-7/8	4-1/8	4	**CV50CR266**	Price	**CV70CR266**	Price	**CV72CR266**	Price
7/8	3/4	1-7/8	4-1/8	5	**CV50CR286**	Price	**CV70CR286**	Price	**CV72CR286**	Price
7/8	7/8	1-7/8	4-1/8	5	**CV50CR287**	Price	**CV70CR287**	Price	**CV72CR287**	Price
15/16	3/4	1-7/8	4-1/8	4	**CV50CR306**	Price	**CV70CR306**	Price	**CV72CR306**	Price
15/16	7/8	2-1/8	4-1/8	4	**CV50CR307**	Price	-	-	-	-
1	3/4	2	4-1/2	5	**CV50CR326**	Price	**CV70CR326**	Price	**CV72CR326**	Price
1	1	2	4-1/2	5	**CV50CR328**	Price	**CV70CR328**	Price	**CV72CR328**	Price
1-1/8	3/4	2	4-1/4	6	**CV50CR366**	Price	**CV70CR366**	Price	**CV72CR366**	Price
1-1/8	1	2	4-1/2	6	**CV50CR368**	Price	**CV70CR368**	Price	**CV72CR368**	Price
1-1/4	1	2	4-1/2	5	**CV50CR408**	Price	**CV70CR408**	Price	**CV72CR408**	Price
1-1/4	3/4	2	4-1/4	6	**CV50CR406**	Price	**CV70CR406**	Price	**CV72CR406**	Price
1-1/4	1-1/4	2	4-1/2	6	**CV50CR4010**	Price	**CV70CR4010**	Price	**CV72CR4010**	Price
1-3/8	3/4	2	4-1/4	6	**CV50CR446**	Price	**CV70CR446**	Price	**CV72CR446**	Price
1-1/2	3/4	2	4-1/4	6	**CV50CR486**	Price	**CV70CR486**	Price	**CV72CR486**	Price
1-1/2	1-1/4	2	4-1/2	6	**CV50CR4810**	Price	**CV70CR4810**	Price	**CV72CR4810**	Price
1-3/4	3/4	2	4-1/4	6	**CV50CR566**	Price	**CV70CR566**	Price	**CV72CR566**	Price
1-3/4	1-1/4	2	4-1/2	6	**CV50CR5610**	Price	**CV70CR5610**	Price	**CV72CR5610**	Price
2	3/4	2	4-1/4	6	**CV50CR646**	Price	**CV70CR646**	Price	**CV72CR646**	Price
2	1-1/4	2	4-1/2	8	**CV50CR6410**	Price	**CV70CR6410**	Price	**CV72CR6410**	Price
2	2	2	5-3/4	8	**CV50CR64162**	Price	**CV70CR64162**	Price	**CV72CR64162**	Price
2	2	3	6-3/4	8	**CV50CR64163**	Price	**CV70CR64163**	Price	**CV72CR64163**	Price
2	2	4	7-3/4	8	**CV50CR64164**	Price	**CV70CR64164**	Price	**CV72CR64164**	Price

Length - Medium										
					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1	1	3	5-1/2	5	**CV50CM328**	Price	**CV70CM328**	Price	**CV72CM328**	Price
1-1/4	1-1/4	3	5-1/2	6	**CV50CM4010**	Price	**CV70CM4010**	Price	**CV72CM4010**	Price
1-1/2	1-1/4	3	5-1/2	6	**CV50CM4810**	Price	**CV70CM4810**	Price	**CV72CM4810**	Price
2	2	6	9-3/4	8	**CV50CM64166**	Price	**CV70CM64166**	Price	**CV72CM64166**	Price

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M-42 Cobalt — Coarse Tooth Roughing End Mills (cont.)



Length - Long										
					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1/2	1/2	2	4	4	**CV50CL164**	Price	**CV70CL164**	Price	**CV72CL164**	Price
5/8	5/8	2-1/2	4-5/8	4	**CV50CL205**	Price	**CV70CL205**	Price	**CV72CL205**	Price
3/4	3/4	3	5-1/4	4	**CV50CL246**	Price	**CV70CL246**	Price	**CV72CL246**	Price
3/4	5/8	3	5-1/8	4	**CV50CL245**	Price	**CV70CL245**	Price	**CV72CL245**	Price
7/8	3/4	3-1/2	5-3/4	5	**CV50CL286**	Price	**CV70CL286**	Price	**CV72CL286**	Price
7/8	7/8	3-1/2	5-3/4	4	**CV50CL287**	Price	**CV70CL287**	Price	**CV72CL287**	Price
1	3/4	4	6-1/4	5	**CV50CL326**	Price	**CV70CL326**	Price	**CV72CL326**	Price
1	1	4	6-1/2	5	**CV50CL328**	Price	**CV70CL328**	Price	**CV72CL328**	Price
1-1/4	3/4	4	6-1/4	6	**CV50CL406**	Price	**CV70CL406**	Price	**CV72CL406**	Price
1-1/4	1-1/4	4	6-1/2	6	**CV50CL4010**	Price	**CV70CL4010**	Price	**CV72CL4010**	Price
1-1/2	3/4	4	6-1/4	6	**CV50CL486**	Price	**CV70CL486**	Price	**CV72CL486**	Price
1-1/2	1-1/4	4	6-1/2	6	**CV50CL4810**	Price	**CV70CL4810**	Price	**CV72CL4810**	Price
1-3/4	1-1/4	4	6-1/2	8	**CV50CL5610**	Price	**CV70CL5610**	Price	**CV72CL5610**	Price
2	1-1/4	4	6-1/2	6	**CV50CL6410**	Price	**CV70CL6410**	Price	**CV72CL6410**	Price
2	2	8	11-3/4	8	**CV50CL64168**	Price	**CV70CL64168**	Price	**-**	-
2	2	10	13-3/4	8	**CV50CL64160**	Price	**CV70CL64160**	Price	**-**	-
2	2	12	15-3/4	8	**CV50CL64162**	Price	**CV70CL64162**	Price	**-**	-

M-42 Cobalt — Coarse Tooth Center Cutting Roughing End Mills

- For general purpose milling of soft to medium hard materials
- Suitable for heavier feed rates
- TiN coating improves tool life and allows elevated feeds and speeds
- TiCN coating is ideal for cutting extremely abrasive or difficult to cut materials



Length - Standard										
					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1/2	1/2	1-1/4	3-1/4	4	**CV50CRC164**	Price	**CV70CRC164**	Price	**CV72CRC164**	Price
5/8	5/8	1-5/8	3-3/4	4	**CV50CRC205**	Price	**CV70CRC205**	Price	**CV72CRC205**	Price
3/4	3/4	1-5/8	3-7/8	4	**CV50CRC246**	Price	**CV70CRC246**	Price	**CV72CRC246**	Price
1	1	2	4-1/2	5	**CV50CRC328**	Price	**CV70CRC328**	Price	**CV72CRC328**	Price
1-1/4	1-1/4	2	4-1/2	6	**CV50CRC4010**	Price	**CV70CRC4010**	Price	**CV72CRC4010**	Price
1-1/2	1-1/4	2	4-1/2	6	**CV50CRC4810**	Price	**CV70CRC4810**	Price	**CV72CRC4810**	Price

Length - Long										
					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1/2	1/2	2	4	4	**CV50CLC164**	Price	**CV70CLC164**	Price	**CV72CLC164**	Price
5/8	5/8	2-1/2	4-5/8	4	**CV50CLC205**	Price	**CV70CLC205**	Price	**CV72CLC205**	Price
3/4	3/4	3	5-1/4	4	**CV50CLC246**	Price	**CV70CLC246**	Price	**CV72CLC246**	Price
1	1	4	6-1/2	5	**CV50CLC328**	Price	**CV70CLC328**	Price	**CV72CLC328**	Price
1-1/4	1-1/4	4	6-1/2	6	**CV50CLC4010**	Price	**CV70CLC4010**	Price	**CV72CLC4010**	Price
1-1/2	1-1/4	4	6-1/2	6	**CV50CLC4810**	Price	**CV70CLC4810**	Price	**CV72CLC4810**	Price

M-42 Cobalt Roughing and Finishing End Mills

Rough and Finish in a Single Pass!

- Reduce chatter dramatically
- For maximum performance, reduce feeds by 10%
- Easy regrinding, longer tool life, less tool deflection
- TiN coating improves tool life and allows elevated feeds and speeds
- TiCN coating is ideal for cutting extremely abrasive or difficult to cut materials



Length - Stub										
					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1	3/4	1-1/8	3-3/8	5	**CV90RFS32**	Price	**CV95RFS32**	Price	**CV97RFS32**	Price
1-1/4	3/4	1-1/8	3-3/8	6	**CV90RFS40**	Price	**CV95RFS40**	Price	**CV97RFS40**	Price
1-3/4	3/4	1-1/8	3-3/8	6	**CV90RFS56**	Price	**-**	-	**-**	-

Length - Standard										
					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1/4	3/8	5/8	2-7/16	4	**CV90RF83**	Price	**CV95RF83**	Price	**CV97RF83**	Price
3/8	3/8	3/4	2-1/2	4	**CV90RF123**	Price	**CV95RF123**	Price	**CV97RF123**	Price

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M-42 Cobalt Roughing and Finishing End Mills (cont.)



Length - Standard										
					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
7/16	3/8	1	2-11/16	4	**CV90RF143**	Price	**CV95RF143**	Price	**CV97RF143**	Price
1/2	1/2	1-1/4	3-1/4	4	**CV90RF164**	Price	**CV95RF164**	Price	**CV97RF164**	Price
5/8	5/8	1-5/8	3-3/4	4	**CV90RF205**	Price	**CV95RF205**	Price	**CV97RF205**	Price
3/4	5/8	1-5/8	3-3/4	4	**CV90RF245**	Price	**CV95RF245**	Price	**CV97RF245**	Price
3/4	3/4	1-5/8	3-7/8	4	**CV90RF246**	Price	**CV95RF246**	Price	**CV97RF246**	Price
7/8	3/4	1-7/8	4-1/8	4	**CV90RF286**	Price	**CV95RF286**	Price	**CV97RF286**	Price
1	3/4	2	4-1/4	4	**CV90RF326**	Price	**CV95RF326**	Price	**CV97RF326**	Price
1	1	2	4-1/2	6	**CV90RF328**	Price	**CV95RF328**	Price	**CV97RF328**	Price
1-1/8	3/4	2	4-1/4	6	**CV90RF366**	Price	**CV95RF366**	Price	**CV97RF366**	Price
1-1/8	1	2	4-1/2	6	**CV90RF368**	Price	**CV95RF368**	Price	**CV97RF368**	Price
1-1/4	3/4	2	4-1/4	6	**CV90RF406**	Price	**CV95RF406**	Price	**CV97RF406**	Price
1-1/4	1-1/4	2	4-1/2	6	**CV90RF4010**	Price	**CV95RF4010**	Price	**CV97RF4010**	Price
1-1/2	3/4	2	4-1/4	6	**CV90RF486**	Price	**CV95RF486**	Price	**CV97RF486**	Price
1-1/2	1-1/4	2	4-1/2	6	**CV90RF4810**	Price	**CV95RF4810**	Price	**CV97RF4810**	Price
-	-	-	-	-	**CV90RF64162**	Price	**-**	-	**-**	-
2	2	3	6-3/4	8	**CV90RF64163**	Price	**-**	-	**CV97RF64163**	Price

Length - Long										
					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
5/8	5/8	2-1/2	4-5/8	4	**CV90RFL205**	Price	**CV95RFL205**	Price	**CV97RFL205**	Price
3/4	3/4	2-1/2	4-3/4	4	**CV90RFL246**	Price	**CV95RFL246**	Price	**CV97RFL246**	Price
1	1	3	5-1/2	5	**CV90RFL328**	Price	**CV95RFL328**	Price	**CV97RFL328**	Price
1-1/4	1-1/4	4	6-1/2	6	**CV90RFL4010**	Price	**CV95RFL4010**	Price	**CV97RFL4010**	Price
1-1/2	1-1/4	4	6-1/2	6	**CV90RFL4810**	Price	**CV95RFL4810**	Price	**CV97RFL4810**	Price

RAPIDKUT® Multiple Flute Roughing End Mills

8% M-42 Cobalt

- Precision ground knuckle type
- Designed for machining low alloy, high strength steels and die steels



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price
1/4	3/8	5/8	2-7/16	3	**CV45CR83U**	Price
5/16	3/8	3/4	2-1/2	3	**CV45CR103U**	Price
3/8	3/8	3/4	2-1/2	4	**CV45CR123U**	Price
1/2	1/2	1-1/4	3-1/4	4	**CV45CR164U**	Price
1/2	1/2	2	4	4	**CV45CL164U**	Price
5/8	5/8	1-5/8	3-3/4	4	**CV45CR205U**	Price
3/4	3/4	1-5/8	3-7/8	4	**CV45CR246U**	Price
3/4	3/4	3	5-1/4	4	**CV45CL246U**	Price
1	3/4	2	4-1/4	5	**CV45CR326U**	Price
1	1	2	4-1/2	5	**CV45CR328U**	Price
1	1	4	6-1/2	5	**CV45CL328U**	Price
1-1/4	1-1/4	2	4-1/2	6	**CV45CR4010U**	Price
1-1/4	1-1/4	4	6-1/2	6	**CV45CL4010U**	Price
1-1/2	1-1/4	2	4-1/2	6	**CV45CR4810U**	Price
1-1/2	1-1/4	4	6-1/2	6	**CV45CL4810U**	Price
2	1-1/4	2	4-1/2	8	**CV45CR6410U**	Price
2	2	6	9-3/4	8	**CV45CM64166U**	Price
2	2	8	11-3/4	8	**CV45CL64168U**	Price

RAPIDKUT® Multiple Flute Roughing End Mills

High Speed Steel

- Precision ground knuckle type
- Provides a more economical tool
- For rough milling low tensile, non-ferrous material and soft steel



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price
1/4	3/8	5/8	2-7/16	3	**CV30HR83U**	Price
5/16	3/8	3/4	2-1/2	3	**CV30HR103U**	Price
3/8	3/8	3/4	2-1/2	4	**CV30HR123U**	Price
1/2	1/2	1-1/4	3-1/4	4	**CV30HR164U**	Price
1/2	1/2	2	4	4	**CV30HL164U**	Price
5/8	5/8	1-5/8	3-3/4	4	**CV30HR205U**	Price
3/4	3/4	1-5/8	3-7/8	4	**CV30HR246U**	Price
3/4	3/4	3	5-1/4	4	**CV30HL246U**	Price
1	3/4	2	4-1/4	5	**CV30HR326U**	Price
1	1	2	4-1/2	5	**CV30HR328U**	Price
1	1	3	5-1/2	5	**CV30HM328U**	Price
1	1	4	6-1/2	5	**CV30HL328U**	Price
1-1/4	3/4	2	4-1/4	6	**CV30HR406U**	Price
1-1/4	1-1/4	2	4-1/2	6	**CV30HR4010U**	Price
1-1/4	1-1/4	4	6-1/2	6	**CV30HL4010U**	Price
1-1/2	3/4	2	4-1/4	6	**CV30HR486U**	Price
1-1/2	1-1/4	2	4-1/2	6	**CV30HR4810U**	Price
1-1/2	1-1/4	4	6-1/2	6	**CV30HL4810U**	Price
2	1-1/4	2	4-1/2	8	**CV30HR6410U**	Price
2	2	6	9-3/4	8	**CV30HM64166U**	Price
2	2	8	11-3/4	8	**CV30HL64168U**	Price

Multiple Flute Roughing End Mills

8% Cobalt

- Coarse tooth–best for steel up to 30 HRC
- Fine tooth–best for material 20-45 HRC
- Coarse Tooth - OSG List #490
- Fine Tooth - OSG List #450



				Coarse			Fine		
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	No. of Flutes	Order No.	Price
1/4	3/8	3/4	2-1/2	4	**TP364909100**	Price	3	**TP364509100**	Price
5/16	3/8	3/4	2-1/2	4	**TP364909400**	Price	3	**TP364509400**	Price
3/8	3/8	1-1/2	3-1/4	4	**TP364909800**	Price	-	**-**	-
3/8	3/8	7/8	2-5/8	4	**TP364909700**	Price	4	**TP364509700**	Price
7/16	3/8	1	2-11/16	4	**TP364909900**	Price	4	**TP364509900**	Price
1/2	1/2	1-1/4	3-1/4	4	**TP364900100**	Price	4	**TP364500100**	Price
1/2	1/2	2	4	4	**TP364900300**	Price	4	**TP364500300**	Price
5/8	5/8	1-5/8	3-3/4	4	**TP364900500**	Price	4	**TP364500500**	Price
5/8	5/8	2-1/2	4-5/8	4	**TP364900700**	Price	-	**-**	-
3/4	3/4	1-5/8	3-7/8	4	**TP364901300**	Price	4	**TP364501300**	Price
3/4	3/4	3	5-1/4	4	**TP364901500**	Price	4	**TP364501500**	Price
7/8	3/4	1-7/8	4-1/8	5	**TP364901700**	Price	-	**-**	-
7/8	7/8	1-7/8	4-1/8	5	**TP364902100**	Price	5	**TP364502100**	Price
1	3/4	2	4-1/4	5	**TP364910100**	Price	5	**TP364510100**	Price
1	1	2	4-1/2	5	**TP364910500**	Price	5	**TP364510500**	Price
1	1	3	5-1/2	5	**TP364910700**	Price	5	**TP364510700**	Price
1-1/4	3/4	4	6-1/4	6	**TP364911900**	Price	-	**-**	-
1-1/4	1-1/4	2	4-1/2	6	**TP364912100**	Price	6	**TP364512100**	Price
1-1/4	1-1/4	4	6-1/2	6	**TP364912500**	Price	-	**-**	-
2	1-1/4	2	4-1/2	8	**TP364920100**	Price	8	**TP364520100**	Price

4 Pc. Roughing End Mill Sets

- 1 Each: 1/2, 5/8, 3/4 x 3/4” shank, 1 x 3/4” shank
- High speed steel
- 8% Cobalt or TiN coated



Price

RAPIDKUT® PROCUT ProCut II

			ProCut		ProCut II	
Type	Order No.	Price	Order No.	Price	Order No.	Price
M-2 High Speed Steel	**CV65HRS4U**	Price	**-**	-	**-**	-
Cobalt	**CV65CRS4U**	Price	**-**	-	**CV50CRS4**	Price
TiN	**-**	-	**CV70CRS4**	Price	**-**	-

4 Pc. Roughing End Mill Sets

- 1 Each: 1/4, 5/16, 3/8, 1/2”
- High speed steel
- 8% Cobalt or TiN coated



RAPIDKUT® PROCUT ProCut II

			ProCut		ProCut II	
Type	Order No.	Price	Order No.	Price	Order No.	Price
M-2 High Speed Steel	**CV65HRS3U**	Price	**-**	-	**-**	-
Cobalt	**CV65CRS3U**	Price	**-**	-	**CV50CRS3**	Price
TiN	**-**	-	**CV70CRS3**	Price	**-**	-

HSS MORSE M PM M-42 8% Cobalt Coarse & Fine Tooth Roughing End Mills

Roughing end mills feature a chip breaker type cutting edge for heavier cuts, high speeds and feeds and greatly increased productivity

Coarse Tooth Center Cutting 30° Helix:

- Recommended for a wide variety of materials of soft and medium hardness including titantion and aluminum alloys

TiN Coating:

- TiN coating allows increased feeds over uncoated end mills
- Improves chip flow, resists galling and edge build up and reduces heat generated in the metal removal process
- Ideal for a wide range of applications where improved tool life and elevated feeds and speeds are required

Fine Tooth Center Cutting 30° Helix:

- Recommended for difficult to machine, high tensile strength, abrasive and harder materials up to 40 Rc

TiCN Coating:

- TiCN coating has the same lubricity as TiN but is more than 30% harder. This makes it the optimum choice for maximizing tool life in production runs
- Ideal for operating at aggressive feeds and speeds and for cutting extremely abrasive and difficult-to-cut materials

Coarse Tooth





Fine Tooth

Tooth Type - Coarse										
					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1/2	1/2	1-1/4	3-1/4	4	**CV3244910**	Price	**CV3244921**	Price	**CV3244932**	Price
1/2	1/2	2	4	4	**CV3244943**	Price	**CV3244952**	Price	**CV3244961**	Price
5/8	5/8	1-5/8	3-3/4	4	**CV3244911**	Price	**CV3244922**	Price	**CV3244933**	Price
5/8	5/8	2-1/2	4-5/8	4	**CV3244944**	Price	**CV3244953**	Price	**CV3244962**	Price
3/4	3/4	1-5/8	3-7/8	4	**CV3244912**	Price	**CV3244923**	Price	**CV3244934**	Price
3/4	3/4	3	5-1/4	4	**CV3244945**	Price	**CV3244954**	Price	**CV3244963**	Price
7/8	3/4	1-7/8	4-1/8	5	**CV3244913**	Price	**CV3244924**	Price	**CV3244935**	Price
1	1	2	4-1/2	5	**CV3244914**	Price	**CV3244925**	Price	**CV3244936**	Price
1	1	2	5-1/2	5	**CV3244946**	Price	**CV3244955**	Price	**CV3244964**	Price
1	1	3	6-1/2	5	**CV3244947**	Price	**CV3244956**	Price	**CV3244965**	Price
1-1/4	1-1/4	2	4-1/2	6	**CV3244915**	Price	**CV3244926**	Price	**CV3244937**	Price
1-1/4	1-1/4	3	5-1/2	6	**CV3244948**	Price	**CV3244957**	Price	**CV3244966**	Price
1-1/4	1-1/4	4	6-1/2	6	**CV3244949**	Price	**CV3244958**	Price	**CV3244967**	Price
1-1/2	1-1/4	2	4-1/2	6	**CV3244916**	Price	**CV3244927**	Price	**CV3244938**	Price
1-1/2	1-1/4	3	5-1/2	6	**CV3244950**	Price	**CV3244959**	Price	**CV3244968**	Price
1-1/2	1-1/4	4	6-1/2	6	**CV3244951**	Price	**CV3244960**	Price	**CV3244969**	Price

Tooth Type - Fine										
					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1/2	1/2	1-1/4	3-1/4	4	**CV3244970**	Price	**CV3244981**	Price	**CV3245050**	Price
1/2	1/2	2	4	4	**CV3245061**	Price	**CV3245070**	Price	**CV3245079**	Price
5/8	5/8	1-5/8	3-3/4	4	**CV3244971**	Price	**CV3244982**	Price	**CV3245051**	Price
5/8	5/8	2-1/2	4-5/8	4	**CV3245062**	Price	**CV3245071**	Price	**CV3245080**	Price
3/4	3/4	1-5/8	3-7/8	4	**CV3244972**	Price	**CV3244983**	Price	**CV3245052**	Price
3/4	3/4	3	5-1/4	4	**CV3245063**	Price	**CV3245072**	Price	**CV3245081**	Price
7/8	3/4	1-7/8	4-1/8	5	**CV3244973**	Price	**CV3244984**	Price	**CV3245053**	Price
1	1	2	4-1/2	5	**CV3244974**	Price	**CV3244985**	Price	**CV3245054**	Price
1	1	3	5-1/2	5	**CV3245064**	Price	**CV3245073**	Price	**CV3245082**	Price
1	1	4	6-1/2	5	**CV3245065**	Price	**CV3245074**	Price	**CV3245083**	Price
1-1/4	1-1/4	2	4-1/2	6	**CV3244975**	Price	**CV3244986**	Price	**CV3245055**	Price
1-1/4	1-1/4	3	5-1/2	6	**CV3245066**	Price	**CV3245075**	Price	**CV3245084**	Price
1-1/4	1-1/4	4	6-1/2	6	**CV3245067**	Price	**CV3245076**	Price	**CV3245085**	Price
1-1/2	1-1/4	2	4-1/2	6	**CV3244976**	Price	**CV3244987**	Price	**CV3245056**	Price
1-1/2	1-1/4	3	5-1/2	6	**CV3245068**	Price	**CV3245077**	Price	**CV3245086**	Price
1-1/2	1-1/4	4	6-1/2	6	**CV3245069**	Price	**CV3245078**	Price	**CV3245087**	Price

M-42 Cobalt — Fine Tooth Roughing End Mills

- For high production milling in difficult to machine materials such as iconel, hastalloy, titanium alloys and other materials up to 40 Rc.
- The pressure of the cut is distributed over many teeth
- Less friction
- Breakage and cracks are eliminated
- TiN coating improves tool life and allows elevated feeds and speeds
- TiCN coating is ideal for cutting extremely abrasive or difficult to cut materials



Style - Stub

					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1/4	3/8	1/4	2-1/16	3	CV80SFR83	Price	CV82SFR83	Price	CV83SFR83	Price
3/8	3/8	3/8	2-5/32	3	CV80SFR123	Price	CV82SFR123	Price	CV83SFR123	Price
1/2	1/2	1/2	2-1/2	3	CV80SFR164	Price	CV82SFR164	Price	CV83SFR164	Price
5/8	5/8	5/8	2-3/4	3	CV80SFR205	Price	CV82SFR205	Price	CV83SFR205	Price
3/4	3/4	3/4	2-7/8	3	CV80SFR246	Price	CV82SFR246	Price	CV83SFR246	Price
7/8	3/4	7/8	3-1/8	3	CV80SFR286	Price	CV82SFR286	Price	CV83SFR286	Price
1	3/4	1	3-1/4	3	CV80SFR326	Price	CV82SFR326	Price	CV83SFR326	Price
1	1	1	3-1/2	3	CV80SFR328	Price	CV82SFR328	Price	CV83SFR328	Price

Style - Standard

					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1/4	3/8	5/8	2-7/16	3	CV80FCR83	Price	CV82FCR83	Price	CV83FCR83	Price
5/16	3/8	3/4	2-1/2	3	CV80FCR103	Price	CV82FCR103	Price	CV83FCR103	Price
3/8	3/8	3/4	2-1/2	4	CV80FCR123	Price	CV82FCR123	Price	CV83FCR123	Price
7/16	3/8	1	2-11/16	4	CV80FCR143	Price	CV82FCR143	Price	CV83FCR143	Price
1/2	1/2	1-1/4	3-1/4	4	CV80FCR164	Price	CV82FCR164	Price	CV83FCR164	Price
9/16	1/2	1-3/8	3-3/8	4	CV80FCR184	Price	CV82FCR184	Price	CV83FCR184	Price
5/8	5/8	1-5/8	3-3/4	4	CV80FCR205	Price	CV82FCR205	Price	CV83FCR205	Price
3/4	5/8	1-5/8	3-3/4	4	CV80FCR245	Price	CV82FCR245	Price	CV83FCR245	Price
3/4	3/4	1-5/8	3-7/8	4	CV80FCR246	Price	CV82FCR246	Price	CV83FCR246	Price
7/8	3/4	1-7/8	4-1/8	5	CV80FCR286	Price	CV82FCR286	Price	CV83FCR286	Price
7/8	7/8	1-7/8	4-1/8	5	CV80FCR287	Price	CV82FCR287	Price	CV83FCR287	Price
1	3/4	2	4-1/4	5	CV80FCR326	Price	CV82FCR326	Price	CV83FCR326	Price
1	1	2	4-1/2	5	CV80FCR328	Price	CV82FCR328	Price	CV83FCR328	Price
1-1/8	3/4	2	4-1/4	6	CV80FCR366	Price	CV82FCR366	Price	CV83FCR366	Price
1-1/8	1	2	4-1/2	6	CV80FCR368	Price	CV82FCR368	Price	CV83FCR368	Price
1-1/4	3/4	2	4-1/4	6	CV80FCR406	Price	CV82FCR406	Price	CV83FCR406	Price
1-1/4	1-1/4	2	4-1/2	6	CV80FCR4010	Price	CV82FCR4010	Price	CV83FCR4010	Price
1-3/8	3/4	2	4-1/4	6	CV80FCR446	Price	CV82FCR446	Price	CV83FCR446	Price
1-1/2	3/4	2	4-1/4	6	CV80FCR486	Price	CV82FCR486	Price	CV83FCR486	Price
1-1/2	1-1/4	2	4-1/2	6	CV80FCR4810	Price	CV82FCR4810	Price	CV83FCR4810	Price
2	3/4	2	4-1/4	6	CV80FCR646	Price	CV82FCR646	Price	CV83FCR646	Price
2	1-1/4	2	4-1/2	6	CV80FCR6410	Price	CV82FCR6410	Price	CV83FCR6410	Price

Style - Medium

					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1	1	3	5-1/2	5	CV80FCM328	Price	CV82FCM328	Price	CV83FCM328	Price
1-1/4	1-1/4	3	5-1/2	6	CV80FCM4010	Price	CV82FCM4010	Price	CV83FCM4010	Price
1-1/2	1-1/4	3	5-1/2	6	CV80FCM4810	Price	CV82FCM4810	Price	CV83FCM4810	Price

Style - Long

					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1/2	1/2	2	4	4	CV80FCL164	Price	CV82FCL164	Price	CV83FCL164	Price
5/8	5/8	2-1/2	4-5/8	4	CV80FCL205	Price	CV82FCL205	Price	CV83FCL205	Price
3/4	5/8	3	5-1/8	4	CV80FCL245	Price	CV82FCL245	Price	CV83FCL245	Price
3/4	3/4	3	5-1/4	4	CV80FCL246	Price	CV82FCL246	Price	CV83FCL246	Price
7/8	7/8	3-1/2	5-3/4	5	CV80FCL287	Price	CV82FCL287	Price	CV83FCL287	Price
1	1	4	6-1/2	5	CV80FCL328	Price	CV82FCL328	Price	CV83FCL328	Price
1-1/4	1-1/4	4	6-1/2	6	CV80FCL4010	Price	CV82FCL4010	Price	CV83FCL4010	Price
1-1/2	3/4	4	6-1/4	6	CV80FCL486	Price	CV82FCL486	Price	CV83FCL486	Price
1-1/2	1-1/4	4	6-1/2	6	CV80FCL4810	Price	CV82FCL4810	Price	CV83FCL4810	Price
1-3/4	1-1/4	4	6-1/2	6	CV80FCL5610	Price	CV82FCL5610	Price	CV83FCL5610	Price
2	1-1/4	4	6-1/2	6	CV80FCL6410	Price	CV82FCL6410	Price	CV83FCL6410	Price

Coarse Tooth Roughing End Mills for Bridgeports

M-42 Cobalt • 3/4" Shank



- For general purpose milling of soft to medium hard materials
- Suitable for heavier feed rates
- TiN coating improves tool life and allows elevated feeds and speeds
- TiCN coating is ideal for cutting extremely abrasive or difficult to cut materials

				Uncoated		TiN		TiCN	
Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1	1-1/8	3-3/8	6	**CV50CRS32**	Price	**CV70CRS32**	Price	**CV72CRS32**	Price
1-1/8	1-1/8	3-3/8	6	**CV50CRS36**	Price	**CV70CRS36**	Price	**CV72CRS36**	Price
1-1/4	1-1/8	3-3/8	6	**CV50CRS40**	Price	**CV70CRS40**	Price	**CV72CRS40**	Price
1-3/8	1-1/8	3-3/8	6	**CV50CRS44**	Price	**CV70CRS44**	Price	**CV72CRS44**	Price
1-1/2	1-1/8	3-3/8	6	**CV50CRS48**	Price	**CV70CRS48**	Price	**CV72CRS48**	Price
1-3/4	1-1/8	3-3/8	6	**CV50CRS56**	Price	**CV70CRS56**	Price	**CV72CRS56**	Price
2	1-1/8	3-3/8	8	**CV50CRS64**	Price	**CV70CRS64**	Price	**CV72CRS64**	Price

3 Flute Coarse Tooth Roughing End Mills

M-42 Cobalt • Stub Length



- For general purpose milling of soft to medium hard materials
- Suitable for heavier feed rates
- TiN coating improves tool life and allows elevated feeds and speeds
- TiCN coating is ideal for cutting extremely abrasive or difficult to cut materials

				Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/4	3/8	1/4	2-1/16	**CV50CS83**	Price	**CV70CS83**	Price	**CV72CS83**	Price
3/8	3/8	3/8	2-5/32	**CV50CS123**	Price	**CV70CS123**	Price	**CV72CS123**	Price
1/2	1/2	1/2	2-1/2	**CV50CS164**	Price	**CV70CS164**	Price	**CV72CS164**	Price
5/8	5/8	5/8	2-3/4	**CV50CS205**	Price	**CV70CS205**	Price	**CV72CS205**	Price
3/4	3/4	3/4	2-7/8	**CV50CS246**	Price	**CV70CS246**	Price	**CV72CS246**	Price
7/8	3/4	7/8	3-1/4	**CV50CS286**	Price	**CV70CS286**	Price	**CV72CS286**	Price
1	1	1	3-1/2	**CV50CS328**	Price	**CV70CS328**	Price	**CV72CS328**	Price

3 Flute Fine Tooth Roughing End Mills

M-42 Cobalt • Center Cutting • 45° Helix



- Use for milling operations in hard materials
- 3-flute design and high shear angle aids in chip removal and produces better finishes than coarse tooth design
- TiN coating improves tool life and allows elevated speeds and feeds

				Uncoated		TiN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/4	3/8	5/8	2-7/16	**CV80FCH83**	Price	**CV82FCH83**	Price
5/16	3/8	3/4	2-1/2	**CV80FCH103**	Price	**CV82FCH103**	Price
3/8	3/8	3/4	2-1/2	**CV80FCH123**	Price	**CV82FCH123**	Price
1/2	1/2	1-1/4	3-1/4	**CV80FCH164**	Price	**CV82FCH164**	Price
1/2	1/2	2	4	**CV80FCH164L**	Price	**CV82FCH164L**	Price
5/8	5/8	1-5/8	3-3/4	**CV80FCH205**	Price	**CV82FCH205**	Price
5/8	5/8	2-1/2	4-5/8	**CV80FCH205L**	Price	**CV82FCH205L**	Price
3/4	3/4	1-5/8	3-3/4	**CV80FCH246**	Price	**CV82FCH246**	Price
3/4	3/4	3	5-1/4	**CV80FCH246L**	Price	**CV82FCH246L**	Price
7/8	3/4	1-7/8	4-1/8	**CV80FCH286**	Price	**CV82FCH286**	Price
7/8	3/4	3-1/2	5-3/4	**CV80FCH286L**	Price	**CV82FCH286L**	Price
1	3/4	2	4-1/2	**CV80FCH326**	Price	**CV82FCH326**	Price
1	1	2	4-1/2	**CV80FCH328**	Price	**CV82FCH328**	Price
1	1	4	6-1/2	**CV80FCH328L**	Price	**CV82FCH328L**	Price
1-1/8	3/4	2	4-1/2	**CV80FCH366**	Price	**CV82FCH366**	Price
1-1/4	1-1/4	2	4-1/2	**CV80FCH4010**	Price	**CV82FCH4010**	Price
1-1/4	1-1/4	4	6-1/2	**CV80FCH4010L**	Price	**CV82FCH4010L**	Price
1-1/2	1-1/4	2	4-1/2	**CV80FCH4810**	Price	**CV82FCH4810**	Price
1-1/2	1-1/4	4	6-1/2	**CV80FCH4810L**	Price	**CV82FCH4810L**	Price
1-3/4	1-1/4	2	4-1/2	**CV80FCH5610**	Price	**CV82FCH5610**	Price
2	1-1/4	2	4-1/2	**CV80FCH6410**	Price	**CV82FCH6410**	Price
2	1-1/4	4	6-1/2	**CV80FCH6410L**	Price	**CV82FCH6410L**	Price

3-Flute Roughing End Mills for Aluminum

M-42 Cobalt



- For rapid stock removal in aluminum and other alloys
- The three flute design improves chip flow and prevents flutes from loading up
- TiN coating improves tool life and allows elevated feeds and speeds
- TiCN coating is ideal for cutting extremely abrasive or difficult to cut materials

Length - Standard											
					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1/4	3/8	5/8	2-7/16	3	**CV51ACR83**	Price	**CV71ACR83**	Price	**CV73ACR83**	Price
5/16	3/8	3/4	2-1/2	3	**CV51ACR103**	Price	**CV71ACR103**	Price	**CV73ACR103**	Price
3/8	3/8	3/4	2-1/2	3	**CV51ACR123**	Price	**CV71ACR123**	Price	**CV73ACR123**	Price
1/2	1/2	1-1/4	3-1/4	3	**CV51ACR164**	Price	**CV71ACR164**	Price	**CV73ACR164**	Price
5/8	5/8	1-5/8	3-3/4	3	**CV51ACR205**	Price	**CV71ACR205**	Price	**CV73ACR205**	Price

(continued on next page)

3-Flute Roughing End Mills for Aluminum (cont.)



Length - Standard											
					Uncoated		TiN		TiCN		
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price	
3/4	3/4	1-5/8	3-7/8	3	CV51ACR246	Price	CV71ACR246	Price	CV73ACR246	Price	
7/8	3/4	1-7/8	4-1/8	3	CV51ACR286	Price	CV71ACR286	Price	CV73ACR286	Price	
1	3/4	2	4-1/4	3	CV51ACR326	Price	CV71ACR326	Price	CV73ACR326	Price	
1	1	2	4-1/2	3	CV51ACR328	Price	CV71ACR328	Price	CV73ACR328	Price	
1-1/4	1-1/4	2	4-1/2	3	CV51ACR4010	Price	CV71ACR4010	Price	CV73ACR4010	Price	
1-1/2	1-1/4	2	4-1/2	3	CV51ACR4810	Price	CV71ACR4810	Price	CV73ACR4810	Price	

Length - Long										
					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1/2	1/2	2	4	3	CV51ACL164	Price	CV71ACL164	Price	CV73ACL164	Price
5/8	5/8	2-1/2	4-5/8	3	CV51ACL205	Price	CV71ACL205	Price	CV73ACL205	Price
3/4	3/4	3	5-1/4	3	CV51ACL245	Price	CV71ACL245	Price	CV73ACL245	Price
1	1	4	6-1/2	3	CV51ACL328	Price	CV71ACL328	Price	CV73ACL328	Price
1-1/4	1-1/4	4	6-1/2	3	CV51ACL4010	Price	CV71ACL4010	Price	CV73ACL4010	Price
1-1/2	1-1/4	4	6-1/2	3	CV51ACL4810	Price	CV71ACL4810	Price	CV73ACL4810	Price

Coarse Tooth Ball Nose Roughing End Mills



M-42 Cobalt

- For general purpose milling of soft to medium hard materials
- Suitable for heavier feed rates
- TiN coating improves tool life and allows elevated feeds and speeds
- TiCN coating is ideal for cutting extremely abrasive or difficult to cut materials

Length - Standard										
					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1/4	3/8	5/8	2-7/16	3	CV50CRB83	Price	CV70CRB83	Price	CV72CRB83	Price
5/16	3/8	3/4	2-1/2	3	CV50CRB103	Price	CV70CRB103	Price	CV72CRB103	Price
3/8	3/8	3/4	2-1/2	4	CV50CRB123	Price	CV70CRB123	Price	CV72CRB123	Price
1/2	1/2	1-1/4	3-1/4	4	CV50CRB164	Price	CV70CRB164	Price	CV72CRB164	Price
5/8	5/8	1-5/8	3-3/4	4	CV50CRB205	Price	CV70CRB205	Price	CV72CRB205	Price
3/4	3/4	1-3/4	4	4	CV50CRB246	Price	CV70CRB246	Price	CV72CRB246	Price
1	3/4	2	4-1/2	5	CV50CRB326	Price	CV70CRB326	Price	CV72CRB326	Price
1	1	2	4-1/2	5	CV50CRB328	Price	CV70CRB328	Price	CV72CRB328	Price
1-1/4	3/4	2	4-1/2	6	CV50CRB406	Price	CV70CRB406	Price	CV72CRB406	Price
1-1/4	1-1/4	2	4-1/2	6	CV50CRB4010	Price	CV70CRB4010	Price	CV72CRB4010	Price
1-1/2	3/4	2	4-1/2	6	CV50CRB486	Price	CV70CRB486	Price	CV72CRB486	Price
1-1/2	1-1/4	2	4-1/2	6	CV50CRB4810	Price	CV70CRB4810	Price	CV72CRB4810	Price

Length - Long										
					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price	Order No.	Price
1/2	1/2	2-1/2	4-1/2	4	CV50CLB164	Price	CV70CLB164	Price	CV72CLB164	Price
5/8	5/8	2-1/2	4-5/8	4	CV50CLB205	Price	CV70CLB205	Price	CV72CLB205	Price
3/4	3/4	3	5-1/4	4	CV50CLB246	Price	CV70CLB246	Price	CV72CLB246	Price
1	1	4	6-1/2	5	CV50CLB328	Price	CV70CLB328	Price	CV72CLB328	Price
1-1/4	1-1/4	4	6-1/2	6	CV50CLB4010	Price	-	-	CV72CLB4010	Price
1-1/2	1-1/4	4	6-1/2	6	CV50CLB4810	Price	-	-	CV72CLB4810	Price

M-2 and M2-AL Roughing End Mills



M-2 High Speed Steel • M-2-AL Premium High Speed Steel with Aluminum Content

- For extremely rapid stock removal
- These mills can remove material up to three times the rate of regular steel or premium steel conventional mills

Length - Standard								
					M-2 High Speed Steel		Premium M-2-AL HSS	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price
1/4	3/8	5/8	2-7/16	4	CV40HR83	Price	CV75MAR83	Price
5/16	3/8	3/4	2-1/2	4	CV40HR103	Price	CV75MAR103	Price
3/8	3/8	3/4	2-1/2	4	CV40HR123	Price	CV75MAR123	Price
7/16	3/8	1	2-11/16	4	CV40HR143	Price	CV75MAR143	Price
1/2	1/2	1-1/4	3-1/4	4	CV40HR164	Price	CV75MAR164	Price
5/8	5/8	1-5/8	3-3/4	4	CV40HR205	Price	CV75MAR205	Price
11/16	5/8	1-5/8	3-3/4	4	CV40HR225	Price	CV75MAR225	Price
3/4	5/8	1-5/8	3-3/4	4	CV40HR245	Price	CV75MAR245	Price
3/4	3/4	1-5/8	3-3/4	4	CV40HR246	Price	CV75MAR246	Price
7/8	3/4	1-5/8	4-1/8	4	CV40HR286	Price	CV75MAR286	Price
7/8	7/8	1-7/8	4-1/8	4	CV40HR287	Price	CV75MAR287	Price
15/16	3/4	1-7/8	4-1/8	4	-	-	CV75MAR306	Price
1	3/4	2	4-1/2	6	CV40HR326	Price	CV75MAR326	Price
1	1	2	4-1/2	6	CV40HR328	Price	CV75MAR328	Price
1-1/8	3/4	2	4-1/2	6	CV40HR366	Price	-	-
1-1/8	1	2	4-1/2	6	CV40HR368	Price	CV75MAR368	Price
1-1/4	3/4	2	4-1/2	6	CV40HR406	Price	-	-
1-1/4	1-1/4	2	4-1/2	6	CV40HR4010	Price	CV75MAR4010	Price
1-1/2	3/4	2	4-1/2	6	CV40HR486	Price	-	-
1-1/2	1-1/4	2	4-1/2	6	CV40HR4810	Price	CV75MAR4810	Price

(continued on next page)

PROCUT M-2 and M2-AL Roughing End Mills (cont.)



Length - Standard								
					M-2 High Speed Steel		Premium M-2-AL HSS	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price
1-3/4	1-1/4	2	4-1/2	6	-	-	CV75MAR5610	Price
2	1-1/4	2	4-1/2	8	CV40HR6410	Price	CV75MAR6410	Price
2	2	2	5-3/4	8	-	-	CV75MAR64162	Price
2	2	3	6-3/4	6	-	-	CV75MAR64163	Price

Length - Medium								
					High Speed Steel		Premium M-2-AL HSS	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price
1-1/4	1-1/4	3	5-1/2	6	CV40HM4010	Price	-	-
2	2	5	8-3/4	8	-	-	CV75MAM64165	Price
2	2	6	9-3/4	8	CV40HM64166	Price	-	-
2-1/2	2-1/2	6	9-3/4	8	-	-	CV75MAM80206	Price

Length - Long								
					High Speed Steel		Premium M-2-AL HSS	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price
1/2	1/2	2	4	4	CV40HL164	Price	CV75MAL164	Price
5/8	5/8	2-1/2	4-5/8	4	CV40HL205	Price	CV75MAL205	Price
3/4	5/8	3	5-1/8	4	-	-	CV75MAL245	Price
3/4	3/4	3	5-1/4	4	CV40HL246	Price	CV75MAL246	Price
7/8	3/4	3-1/2	5-5/8	4	-	-	CV75MAL286	Price
7/8	7/8	3-1/2	5-3/4	4	CV40HL287	Price	CV75MAL287	Price
1	1	4	6-1/2	6	CV40HL328	Price	CV75MAL328	Price
1	1	6	8-1/2	6	-	-	CV75MAL328X	Price
1-1/4	3/4	4	6-1/4	6	CV40HL406	Price	CV75MAL406	Price
1-1/4	1-1/4	4	6-1/2	6	CV40HL4010	Price	CV75MAL4010	Price
1-1/4	1-1/4	6	8-1/2	6	-	-	CV75MAL40106	Price
1-1/2	3/4	4	6-1/4	6	CV40HL486	Price	CV75MAL486	Price
1-1/2	1-1/4	4	6-1/2	6	CV40HL4810	Price	CV75MAL4810	Price
1-1/2	1-1/4	6	8-1/2	6	-	-	CV75MAL48106	Price
1-3/4	1-1/4	4	6-1/2	6	-	-	CV75MAL5610	Price
2	1-1/4	4	6-1/2	8	CV40HL6410	Price	CV75MAL6410	Price
2	2	8	11-3/4	8	-	-	CV75MAL64168	Price
2	2	12	15-3/4	8	-	-	CV75MAL64162	Price
2-1/2	2-1/2	8	11-3/4	8	-	-	CV75MAL80208	Price

PROCUT M-2 and M2-AL Roughing End Mills - Stub Length

M-2 High Speed Steel • M-2-AL Premium High Speed Steel with Aluminum Content

- Stub length
- 3/4" Shank
- 1-1/8" Flute length
- 3-5/8" Overall length
- All sizes 6 flutes
- Aluminum alloy helps increase tool life by reducing friction
- For high speed & feed rates



	M-2 High Speed Steel		Premium M-2-AL HSS	
Dia. (in.)	Order No.	Price	Order No.	Price
1-1/8	CV40HRS36	Price	-	-
1-5/16	CV40HRS42	Price	CV75MARS42	Price
1-3/8	CV40HRS44	Price	CV75MARS44	Price
2	CV40HRS64†	Price	-	-

†2" Diameter supplied with 8 flutes.

PROCUT Heavy Duty Shell End Mills

High Speed Steel • Right Hand & Left Hand



				Left Hand		Right Hand	
Size (in.)	Hole Dia. (in.)	Length of Cut (in.)	No. of Flutes	Order No.	Price	Order No.	Price
1-1/4	1/2	1	8	-	-	EE50116	Price
1-1/2	1/2	1-1/8	8	EE51132	Price	EE50132	Price
1-3/4	3/4	1-1/4	8	-	-	EE50148	Price
2	3/4	1-3/8	10	-	-	EE50200	Price
2-1/4	1	1-1/2	10	-	-	EE50216	Price
2-1/2	1	1-5/8	10	EE51232	Price	EE50232	Price
2-3/4	1	1-5/8	10	EE51248	Price	EE50248	Price
3	1-1/4	1-3/4	12	-	-	EE50300	Price
3-1/2	1-1/4	1-7/8	12	EE51332	Price	EE50332	Price
4	1-1/2	2-1/4	14	-		EE50400	Price
4-1/2	1-1/2	2-1/4	14	EE51432	Price	EE50432	Price
5	1-1/2	2-1/4	16	EE51500	Price	EE50500	Price
5-1/2	2	2-1/4	16	EE51532	Price	EE50532	Price
6	2	2-1/4	16	EE51600	Price	-	-

PROCUT Roughing End Mill Sets

- Standard length
- Includes wooden stand



No. of Pieces	Set Contents	Set Material	Order No.	Price
4	1/4, 5/16, 3/8, 1/2	M-2 High Speed Steel	CV65HRS3	Price
4	1/4, 5/16, 3/8, 1/2	Premium M-2-AL HSS	CV65MRS3	Price
4	1/2, 5/8, 3/4 x 3/4, 1 x 3/4	M-2 High Speed Steel	CV65HRS4	Price
4	1/2, 5/8, 3/4 x 3/4, 1 x 3/4	Premium M-2-AL HSS	CV65MRS4	Price

FAST CUT M-42 Cobalt Roughing Shell End Mills

Right Hand • Radius Teeth • Up To 300% Faster • Stock Removal



Size (in.)	Hole Dia. (in.)	Length of Cut (in.)	No. of Flutes	Order No.	Price
2	3/4	2	10	CV60CS6416	Price
2-1/4	1	2	10	CV60CS7216	Price
2-1/2	1	1-5/8	10	CV60CS8016	Price
2-3/4	1	2	10	CV60CS8816	Price
3	1-1/4	1-3/4	10	CV60CS9616	Price
3-1/2	1-1/4	2	10	CV60CS11216	Price
4	1-1/2	2-1/4	10	CV60CS12818	Price
4-1/2	1-1/2	2-1/4	12	CV60CS14418	Price
5	1-1/2	2-1/4	12	CV60CS16018	Price
5-1/2	2	2-1/4	14	CV60CS17618	Price
6	2	2-1/4	14	CV60CS19218	Price

PROCUT Shell End Mills for Aluminum

High Speed Steel
Right Hand • 25° Helix



Size (in.)	Hole Dia. (in.)	Length of Cut (in.)	No. of Flutes	Order No.	Price
1-1/4	1/2	1	4	EE52116A	Price
1-1/2	1/2	1-1/8	4	EE52132A	Price
1-3/4	3/4	1-1/4	4	EE52148A	Price
2	3/4	1-3/8	4	EE52200A	Price
2-1/4	1	1-1/2	4	EE52216A	Price
2-1/2	1	1-5/8	4	EE52232A	Price
2-3/4	1	1-5/8	6	EE52248A	Price
3	1-1/4	1-3/4	6	EE52300A	Price
3-1/2	1-1/4	1-7/8	6	EE52332A	Price
4	1-1/2	2-1/4	6	EE52400A	Price
5	1-1/2	2-1/4	8	EE52500A	Price

Tapered End Mills



High Speed Steel

- Premium grade M-7 high speed steel
- For milling or sinking dies and mold cavities
- Polished flutes for free chip passage
- Designed with a constant spiral for all degrees of taper to ensure faster and more accurate cutting

Taper per Side - 3°

Tip Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	3/8	1/2	2-5/8	**CN543AA2**	Price
1/16	3/8	3/4	2-7/8	**CN543AA3**	Price
1/16	3/8	1	2-7/8	**CN543AA4**	Price
3/32	3/8	1-1/4	3-1/8	**CN543A5**	Price
3/32	3/8	1-1/2	3-1/4	**CN543A6**	Price
3/32	3/8	2	3-5/8	**CN543A8**	Price
3/32	3/8	2-1/2	4-1/2	**CN543A10**	Price
7/64	3/8	1	2-7/8	**CN543AX4**	Price
7/64	3/8	1-1/2	3-1/4	**CN543AX6**	Price
7/64	3/8	2	3-5/8	**CN543AX8**	Price
1/8	3/8	3/4	2-1/2	**CN543B3**	Price
1/8	3/8	1-1/2	3-1/4	**CN543B6**	Price
1/8	3/8	2	3-5/8	**CN543B8**	Price
1/8	3/8	3	5	**CN543B12**	Price
5/32	3/8	1	2-7/8	**CN543BX4**	Price
5/32	3/8	1-1/4	3-1/8	**CN543BX5**	Price
5/32	3/8	1-1/2	3-1/4	**CN543BX6**	Price
5/32	3/8	2	3-5/8	**CN543BX8**	Price
3/16	3/8	3/4	2-1/2	**CN543C3**	Price
3/16	3/8	1	2-7/8	**CN543C4A**	Price
3/16	3/8	1-1/4	3-1/8	**CN543C5**	Price
3/16	3/8	1-1/2	3-1/8	**CN543C6**	Price
3/16	5/8	4	6-1/2	**CN543C16**	Price
1/4	3/8	3/4	2-1/2	**CN543D3**	Price
1/4	3/8	1-1/4	3-1/8	**CN543D5**	Price
1/4	1/2	2-1/4	4-1/4	**CN543D9**	Price
3/8	1/2	1-1/4	3-1/8	**CN543F5**	Price
3/8	5/8	2-1/4	4-1/4	**CN543F9**	Price
1/2	1/2	1-1/4	3-1/8	**CN543H5**	Price
1/2	5/8	2-1/4	4-1/4	**CN543H9**	Price
3/4	1	2-1/4	4-3/4	**CN543J9**	Price

Taper per Side - 4°

Tip Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	3/8	1	2-7/8	**CN544AX4A**	Price
3/32	3/8	1	2-7/8	**CN544A4**	Price
1/8	1/2	2	3-7/8	**CN544B8**	Price
3/16	3/8	3/4	2-1/2	**CN544C3**	Price
1/4	1/2	1-1/4	3-1/8	**CN544D5**	Price
3/8	1/2	1-1/4	3-1/8	**CN544F5**	Price
3/8	5/8	2-1/4	4-1/4	**CN544F9**	Price
1/2	1/2	1-1/4	3-1/8	**CN544H5**	Price

Taper per Side - 5°

Tip Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	3/8	1/2	2-5/8	**CN555AA2**	Price
1/16	3/8	3/4	2-7/8	**CN555AA3**	Price
1/16	3/8	1	3-1/4	**CN555AA4**	Price
1/16	3/8	1-1/2	3-1/4	**CN555AA6**	Price
3/32	3/8	1/2	2-5/8	**CN555A2**	Price
3/32	3/8	3/4	2-1/2	**CN555A3**	Price
3/32	3/8	1	2-7/8	**CN555A4**	Price
3/32	3/8	1-1/4	3-1/8	**CN555A5**	Price
3/32	1/2	2	3-7/8	**CN555A8**	Price
3/32	1/2	2-1/2	4-1/2	**CN555A10**	Price
7/64	3/8	1	2-7/8	**CN555AX4**	Price
7/64	3/8	1-1/2	3-1/4	**CN555AX6**	Price

Taper per Side - 5°

Tip Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
7/64	1/2	2	3-7/8	**CN555AX8**	Price
1/8	3/8	3/4	2-1/2	**CN555B3**	Price
1/8	3/8	1	2-7/8	**CN555B4**	Price
1/8	3/8	1-1/4	3-1/8	**CN555B5**	Price
1/8	1/2	2	3-7/8	**CN555B8**	Price
5/32	3/8	1	2-7/8	**CN555BX4**	Price
5/32	1/2	1-1/2	3-3/4	**CN555BX6**	Price
3/16	3/8	3/4	2-1/2	**CN555C3**	Price
3/16	1/2	1-1/4	3-1/8	**CN555C5**	Price
3/16	1/2	1-1/2	3-1/8	**CN555C6**	Price
3/16	1/2	2	4-1/8	**CN555C8**	Price
3/16	1/2	2-1/2	4-1/2	**CN555C10**	Price
3/16	1/2	3	5	**CN555C12S**	Price
3/16	3/4	3-1/4	5-1/2	**CN555C13**	Price
3/16	3/4	4	6-1/2	**CN555C16**	Price
1/4	3/8	3/4	2-7/8	**CN555D3**	Price
1/4	1/2	1	3	**CN555D4**	Price
1/4	1/2	1-1/4	3-1/8	**CN555D5**	Price
1/4	1/2	1-1/2	3-1/2	**CN555D6A**	Price
1/4	1/2	2-1/4	4-1/4	**CN555D9**	Price
5/16	5/8	2-1/4	4-1/4	**CN555E9A**	Price
3/8	1/2	1-1/4	3-1/8	**CN555F5**	Price
3/8	3/4	2-1/4	4-1/4	**CN555F9**	Price
1/2	1/2	1-1/4	3-1/8	**CN555H5**	Price
1/2	3/4	2-1/4	4-1/4	**CN555H9**	Price

Taper per Side - 7°

Tip Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	3/8	1	2-7/8	**CN567AA4**	Price
1/16	1/2	1-1/2	3-1/4	**CN567AA6**	Price
3/32	3/8	3/4	2-1/2	**CN567A3A**	Price
3/32	3/8	1	2-7/8	**CN567A4**	Price
3/32	1/2	1-1/4	3-1/8	**CN567A5**	Price
3/32	1/2	1-1/2	3-1/4	**CN567A6**	Price
1/8	3/8	3/4	2-1/2	**CN567B3**	Price
1/8	3/8	1	2-7/8	**CN567B4**	Price
1/8	1/2	1-1/2	3-1/4	**CN567B6**	Price
1/8	5/8	2	4-1/8	**CN567B8**	Price
3/16	1/2	1-1/4	3-1/8	**CN567C5**	Price
3/16	3/4	3	5-1/4	**CN567C12**	Price
1/4	1/2	3/4	2-1/2	**CN567D3**	Price
1/4	1/2	1-1/4	3-1/8	**CN567D5**	Price
1/4	3/4	2-1/4	4-1/2	**CN567D9**	Price
3/8	3/4	2-1/4	4-1/4	**CN567F9**	Price
1/2	5/8	1-1/4	3-1/4	**CN567H5**	Price
1/2	3/4	1-1/4	3-1/4	**CN567H5A**	Price
1/2	1	2-1/4	4-3/4	**CN567H9**	Price
1/2	1-1/4	3-1/4	5-3/4	**CN567H13**	Price

Taper per Side - 10°

Tip Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	3/8	1/2	2-3/8	**CN5710AA2A**	Price
1/16	3/8	3/4	2-5/8	**CN5710AA3A**	Price
1/16	1/2	1	2-7/8	**CN5710AA4A**	Price
3/32	3/8	1/2	2-1/2	**CN5710A2**	Price
3/32	3/8	3/4	2-7/8	**CN5710A3**	Price
3/32	1/2	1-1/2	3-3/8	**CN5710A6**	Price
1/8	1/2	3/4	2-1/2	**CN5710B3**	Price
1/8	1/2	1-1/4	3-1/8	**CN5710B5**	Price
1/8	1/2	1-1/2	3-1/2	**CN5710B6A**	Price
3/16	1/2	1-1/4	3-1/4	**CN5710C5**	Price
1/4	1/2	3/4	2-1/2	**CN5710D3**	Price
1/4	1/2	1-1/4	3-1/8	**CN5710D5**	Price
1/4	3/4	2-1/4	4-1/4	**CN5710D9**	Price
3/8	5/8	1-1/4	3-1/4	**CN5710F5**	Price
1/2	3/4	1-1/4	3-3/8	**CN5710H5**	Price
1/2	1	2-1/4	4-5/8	**CN5710H9**	Price
1/2	1-1/4	4	6-3/8	**CN5710H16**	Price

Taper per Side - 15°

Tip Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	1/2	3/4	2-3/4	**CN5815AA3**	Price
3/32	3/8	1/2	2-3/8	**CN5815A2A**	Price
3/32	1/2	3/4	2-3/4	**CN5815A3**	Price
3/32	1/2	1	2-7/8	**CN5815A4**	Price
1/8	1/2	3/4	2-1/2	**CN5815B3**	Price
1/8	1/2	1/2	2-5/8	**CN5815B2A**	Price
1/8	1/2	1	3	**CN5815B4**	Price
1/8	1/2	1-1/4	3-1/4	**CN5815B5**	Price
1/8	1/2	1-1/2	3-1/4	**CN5815B6A**	Price
1/4	1/2	1	3-1/8	**CN5815D4**	Price
1/4	3/4	1-1/4	3-1/4	**CN5815D5**	Price
1/4	1/2	1-1/4	3-1/4	**CN5815D5S**	Price
1/4	3/4	1-1/2	3-3/4	**CN5815D6**	Price
1/4	3/4	2	4-1/2	**CN5815D8A**	Price
1/4	1	2-1/4	4-3/4	**CN5815D9**	Price
5/16	3/4	1	3-1/4	**CN5815E4**	Price
5/16	3/4	1-1/2	3-7/8	**CN5815E6A**	Price
3/8	3/4	1-1/4	3-1/2	**CN5815F5**	Price
1/2	3/4	1	3-1/4	**CN5815H4**	Price
1/2	3/4	1-1/4	3-1/2	**CN5815H5**	Price
1/2	1	1-3/4	4-1/4	**CN5815H7**	Price
1/2	1-1/4	2-1/4	4-3/4	**CN5815H9**	Price

Taper per Side - 20°

Tip Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	3/8	1/2	2-1/2	**CN5820AX2A**	Price
3/32	1/2	3/4	2-3/4	**CN5820A3**	Price
1/8	3/8	1/2	2-1/2	**CN5820B2**	Price
1/8	1/2	1	3	**CN5820B4**	Price
3/16	1/2	1	3	**CN5820C4**	Price
3/16	3/4	1-1/2	3-3/4	**CN5820C6**	Price
1/4	1/2	1	3	**CN5820D4**	Price
1/4	3/4	1-1/2	3-3/4	**CN5820D6**	Price
5/16	3/4	1	3-1/4	**CN5820E4**	Price
5/16	3/4	1-1/2	3-3/4	**CN5820E6**	Price
3/8	3/4	1-1/2	3-3/4	**CN5820F6**	Price
1/2	1-1/4	2-1/4	4-3/4	**CN5820H9**	Price

Taper per Side - 25°

Tip Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
3/32	1/2	3/4	3	**CN5825A3**	Price
1/8	1/2	1/2	2-1/2	**CN5825B2**	Price
1/8	1/2	1	3	**CN5825B4**	Price
1/4	5/8	1	3-1/4	**CN5825D4**	Price
1/4	3/4	1-1/2	3-3/4	**CN5825D6**	Price
3/8	1	1-1/2	4	**CN5825F6**	Price

Taper per Side - 30°

Tip Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	1/2	1/2	2-1/2	**CN5830AX2A**	Price
3/32	1/2	3/4	2-3/4	**CN5830A3**	Price
1/8	1/2	1/2	2-1/2	**CN5830B2**	Price
1/8	1/2	1	3	**CN5830B4**	Price
1/4	3/4	1	3-1/4	**CN5830D4**	Price
1/4	1	1-1/2	4	**CN5830D6**	Price
3/8	1	1-1/4	3-3/4	**CN5830F5**	Price
1/2	1	1-1/2	4	**CN5830H6**	Price

Taper per Side - 45°

Tip Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	1/2	1/2	2-5/8	**CN5845B2A**	Price
1/8	5/8	3/4	3	**CN5845B3**	Price
1/8	1	1	3-3/4	**CN5845B4**	Price
1/4	1	1	4	**CN5845D4A**	Price

See website for additional sizes.

RAPIDKUT® 2 Flute Solid Carbide Single End Mills

Center Cutting • Stub, Regular and Long Lengths



- Used for general purpose milling in most materials of medium hardness such as steel, brass, iron and non-ferrous materials
- Made from premium submicron grain carbide
- 30° Helix

AlTiN TiCN TiN MCG

				AlTiN		TiCN		TiN		Uncoated	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/32	1/8	1/16	1-1/2	DD8252631	Price	DD8042631	Price	DD5522631	Price	DD5012631	Price
1/32	1/8	3/32	1-1/2	DD8256889	Price	DD802002TCN	Price	DD5526889	Price	DD502002S	Price
3/64	1/8	1/8	1-1/2	DD8256890	Price	DD802003TCN	Price	DD5526890	Price	DD5016890	Price
1/16	1/8	1/8	1-1/2	DD8252635	Price	DD8042635	Price	DD5522635	Price	DD5012635	Price
1/16	1/8	1/4	1-1/2	DD8256891	Price	DD802004STCN	Price	DD552004ST	Price	DD502004S	Price
1/16	1/8	3/8	1-1/2	DD8250765	Price	DD8040765	Price	DD5520765	Price	DD5010765	Price
5/64	1/8	1/8	1-1/2	DD8252637	Price	DD8042637	Price	DD5522637	Price	DD5012637	Price
5/64	1/8	1/4	1-1/2	DD8256892	Price	-	-	DD552005ST	Price	DD502005S	Price
3/32	1/8	3/16	1-1/2	DD8252639	Price	DD8042639	Price	DD5522639	Price	DD5012639	Price
3/32	1/8	3/8	1-1/2	DD8256893	Price	DD802006STCN	Price	DD552006ST	Price	DD502006S	Price
7/64	1/8	3/8	1-1/2	DD8256894	Price	-	-	DD552007ST	Price	DD502007S	Price
7/64	1/8	3/4	2	DD8250769	Price	DD8040769	Price	DD5520769	Price	DD5010769	Price
1/8	1/8	1/4	1-1/2	DD8257889	Price	DD8047889	Price	DD5527889	Price	DD5017889	Price
1/8	1/8	1/2	1-1/2	DD8256606	Price	DD802008STCN	Price	DD552008ST	Price	DD502008S	Price
1/8	1/8	5/8	2	DD8250173	Price	DD8040173	Price	DD5520173	Price	DD5010173	Price
1/8	1/8	3/4	3	DD8250175	Price	DD8040175	Price	DD5520175	Price	DD5010175	Price
1/8	1/8	1	3	DD8250177	Price	DD8040177	Price	DD552008SLT	Price	DD502008SL	Price
9/64	3/16	9/16	2	DD8257863	Price	-	-	DD552009ST	Price	DD502009S	Price
5/32	3/16	5/16	1-1/2	DD8252641	Price	DD8042641	Price	DD5522641	Price	DD5012641	Price
5/32	3/16	9/16	2	DD8257864	Price	DD802010STCN	Price	DD552010ST	Price	DD502010S	Price
11/64	3/16	9/16	2	DD8257865	Price	-	-	DD552011ST	Price	DD502011S	Price
3/16	3/16	3/8	1-1/2	DD8257890	Price	DD8047890	Price	DD5527890	Price	DD5017890	Price
3/16	3/16	9/16	2	DD8256607	Price	DD802012STCN	Price	DD552012ST	Price	DD502012S	Price
3/16	3/16	1	3	DD8250179	Price	DD8040179	Price	DD5520179	Price	DD5010179	Price
3/16	3/16	1-1/8	3	DD8250181	Price	-	-	DD552012SLT	Price	DD502012SL	Price
13/64	1/4	5/8	2	DD8257866	Price	-	-	DD552013ST	Price	DD502013S	Price
7/32	1/4	1/2	2	DD8252643	Price	DD8042643	Price	DD5522643	Price	DD5012643	Price
7/32	1/4	5/8	2-1/2	DD8257867	Price	DD802014STCN	Price	DD552014ST	Price	DD502014S	Price
15/64	1/4	3/4	2-1/2	DD8257868	Price	-	-	DD552015ST	Price	DD502015S	Price
1/4	1/4	1/2	2	DD8257891	Price	DD8047891	Price	DD5527891	Price	DD5017891	Price
1/4	1/4	3/4	2-1/2	DD8256608	Price	DD802016STCN	Price	DD552016ST	Price	DD502016S	Price
1/4	1/4	1	3	DD8250187	Price	DD8040187	Price	DD5520187	Price	DD5010187	Price
1/4	1/4	1-1/2	4	DD8250191	Price	-	-	DD552016SLT	Price	DD502016SL	Price
17/64	5/16	3/4	2-1/2	DD8257869	Price	-	-	DD552017ST	Price	DD502017S	Price
9/32	5/16	3/4	2-1/2	DD8257870	Price	DD802018STCN	Price	DD552018ST	Price	DD502018S	Price
19/64	5/16	13/16	2-1/2	DD8257871	Price	-	-	DD552019ST	Price	DD502019S	Price
5/16	5/16	1/2	2	DD8257892	Price	DD8047892	Price	DD5527892	Price	DD5017892	Price
5/16	5/16	13/16	2-1/2	DD8256609	Price	DD802020STCN	Price	DD552020ST	Price	DD502020S	Price
5/16	5/16	1-1/8	3	DD8256066	Price	DD8046066	Price	DD5526066	Price	DD5016066	Price
5/16	5/16	1-5/8	4	DD8250193	Price	-	-	DD552020SLT	Price	DD502020SL	Price
11/32	3/8	7/8	2-1/2	-	-	DD8047873	Price	-	-	DD5017873	Price
3/8	3/8	5/8	2	DD8257893	Price	DD8047893	Price	DD5527893	Price	DD5017893	Price
3/8	3/8	1	2-1/2	DD8256610	Price	DD802024STCN	Price	DD552024ST	Price	DD502024S	Price
3/8	3/8	2	4	DD8250203	Price	-	-	DD552024SLT	Price	DD502024SL	Price
3/8	3/8	3	6	DD8250199	Price	-	-	DD552024SXLT	Price	DD502024SXL	Price
25/64	7/16	1	2-3/4	DD8250741	Price	DD8040741	Price	DD5520741	Price	DD5010741	Price
13/32	7/16	1	2-3/4	DD8257875	Price	DD802026TCN	Price	DD5527875	Price	DD5017875	Price
7/16	7/16	1	2-3/4	DD8256903	Price	DD802028STCN	Price	DD552028ST	Price	DD502028S	Price
7/16	7/16	2	4	DD8250205	Price	DD8040205	Price	DD5520205	Price	DD5010205	Price
1/2	1/2	5/8	2-1/2	DD8257895	Price	DD8047895	Price	DD5527895	Price	DD5017895	Price
1/2	1/2	1	3	DD8256611	Price	DD802032STCN	Price	DD552032ST	Price	DD502032S	Price
1/2	1/2	1-1/2	4	DD8250773	Price	DD8040773	Price	DD5520773	Price	DD5010773	Price
1/2	1/2	2	4	DD8250209	Price	DD8040209	Price	DD5520209	Price	DD5010209	Price
1/2	1/2	3	6	DD8250211	Price	-	-	DD552032SLT	Price	DD502032SL	Price
9/16	9/16	1-1/4	3-1/2	DD8250751	Price	DD802036STCN	Price	DD552036ST	Price	DD502036S	Price
5/8	5/8	3/4	3	DD8250793	Price	DD8040793	Price	DD5520793	Price	DD5010793	Price
5/8	5/8	1-1/4	3-1/2	DD8256613	Price	DD802040STCN	Price	DD552040ST	Price	DD502040S	Price
5/8	5/8	3	6	DD8256068	Price	-	-	DD552040SLT	Price	DD502040SL	Price
11/16	3/4	1-1/2	4	DD8252723	Price	DD802044STCN	Price	DD552044ST	Price	DD502044S	Price
3/4	3/4	1	3	DD8256160	Price	DD8046160	Price	DD5526160	Price	DD5016160	Price
3/4	3/4	1-1/2	4	DD8256614	Price	DD802048STCN	Price	DD552048ST	Price	DD502048S	Price
3/4	3/4	2	6	DD8250215	Price	DD8040215	Price	DD5520215	Price	DD5010215	Price
3/4	3/4	3	6	DD8250217	Price	-	-	DD552048SLT	Price	DD502048SL	Price
7/8	7/8	1-1/2	4	DD8251901	Price	DD802056STCN	Price	DD552056ST	Price	DD502056S	Price
1	1	1-1/2	4	DD8256615	Price	DD802100STCN	Price	DD552100ST	Price	DD502100S	Price
1	1	3	6	DD8253463	Price	-	-	DD552100SLT	Price	DD502100SL	Price

SOLID MORSE MASTER Solid Carbide 2 Flute Single End Mills

- Recommended for easily machined materials including low alloy steels, non-ferrous materials, and cast iron
- Ideal for plunge cutting or slotting
- Morse list #5944 (regular) 5954 (long) and 5950 (extra long)



Standard



Long Length



Extra Long

TiAlN TiCN TiN MCG

Style - Standard											
				TiAlN		TiCN		TiN		Price	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/16	1/8	3/16	1-1/2	MT3290076	Price	MT3290039	Price	MT3290002	Price	MT3258004	Price
3/32	1/8	3/8	1-1/2	MT3290078	Price	MT3290041	Price	MT3290004	Price	MT3258006	Price
1/8	1/8	1/2	1-1/2	MT3290080	Price	MT3290043	Price	MT3290006	Price	MT3258008	Price
5/32	3/16	9/16	2	MT3290082	Price	MT3290045	Price	MT3290008	Price	MT3258010	Price
3/16	3/16	5/8	2	MT3290084	Price	MT3290047	Price	MT3290010	Price	MT3258012	Price
7/32	1/4	5/8	2-1/2	MT3290086	Price	MT3290049	Price	MT3290012	Price	MT3258014	Price
1/4	1/4	3/4	2-1/2	MT3290088	Price	MT3290051	Price	MT3290014	Price	MT3258016	Price
9/32	5/16	3/4	2-1/2	MT3290090	Price	MT3290053	Price	MT3290016	Price	MT3258018	Price
5/16	5/16	13/16	2-1/2	MT3290092	Price	MT3290055	Price	MT3290018	Price	MT3258020	Price
3/8	3/8	7/8	2-1/2	MT3290096	Price	MT3290059	Price	MT3290022	Price	MT3258024	Price
7/16	7/16	7/8	2-3/4	MT3290100	Price	MT3290063	Price	MT3290026	Price	MT3258028	Price
1/2	1/2	1	3	MT3290104	Price	MT3290067	Price	MT3290030	Price	MT3258032	Price
9/16	9/16	1-1/4	3-1/2	MT3290105	Price	MT3290068	Price	MT3290031	Price	MT3258036	Price
5/8	5/8	1-1/4	3-1/2	MT3290106	Price	MT3290069	Price	MT3290032	Price	MT3258040	Price
11/16	3/4	1-1/2	4	MT3290107	Price	MT3290070	Price	MT3290033	Price	MT3258044	Price
3/4	3/4	1-1/2	4	MT3290108	Price	MT3290071	Price	MT3290034	Price	MT3258048	Price
7/8	7/8	1-1/2	4	MT3290109	Price	MT3290072	Price	MT3290035	Price	MT3258056	Price
1	1	1-1/2	4	MT3290110	Price	MT3290073	Price	MT3290036	Price	MT3258064	Price

Style - Long											
				TiAlN		TiCN		TiN		Uncoated	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	3/4	2-1/4	MT3290140	Price	MT3290130	Price	MT3290120	Price	MT3258238	Price
3/16	3/16	3/4	2-1/2	MT3290141	Price	MT3290131	Price	MT3290121	Price	MT3258239	Price
1/4	1/4	1-1/8	3	MT3290142	Price	MT3290132	Price	MT3290122	Price	MT3258241	Price
5/16	5/16	1-1/8	3	MT3290143	Price	MT3290133	Price	MT3290123	Price	MT3258250	Price
3/8	3/8	1-1/8	3	MT3290144	Price	MT3290134	Price	MT3290124	Price	MT3258254	Price
7/16	7/16	2	4	MT3290145	Price	MT3290135	Price	MT3290125	Price	MT3258258	Price
1/2	1/2	2	4	MT3290146	Price	MT3290136	Price	MT3290126	Price	MT3258262	Price
5/8	5/8	2-1/4	5	MT3290147	Price	MT3290137	Price	MT3290127	Price	MT3258270	Price
3/4	3/4	2-1/4	5	MT3290148	Price	MT3290138	Price	MT3290128	Price	MT3258278	Price
1	1	2-1/4	5	MT3290149	Price	MT3290139	Price	MT3290129	Price	MT3258294	Price

Style - Extra Long											
				TiAlN		TiCN		TiN		Uncoated	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	1	3	MT3290180	Price	MT3290170	Price	MT3290160	Price	MT3258408	Price
3/16	3/16	1-1/8	3	MT3290181	Price	MT3290171	Price	MT3290161	Price	MT3258412	Price
1/4	1/4	1-1/2	4	MT3290182	Price	MT3290172	Price	MT3290162	Price	MT3258416	Price
5/16	5/16	1-5/8	4	MT3290183	Price	MT3290173	Price	MT3290163	Price	MT3258420	Price
3/8	3/8	1-3/4	4	MT3290184	Price	MT3290174	Price	MT3290164	Price	MT3258424	Price
7/16	7/16	3	6	MT3290185	Price	MT3290175	Price	MT3290165	Price	MT3258428	Price
1/2	1/2	3	6	MT3290186	Price	MT3290176	Price	MT3290166	Price	MT3258432	Price
5/8	5/8	3	6	MT3290187	Price	MT3290177	Price	MT3290167	Price	MT3258440	Price
3/4	3/4	3	6	MT3290188	Price	MT3290178	Price	MT3290168	Price	MT3258448	Price
1	1	3	6	MT3290189	Price	MT3290179	Price	MT3290169	Price	MT3258464	Price

truCORE® E12 Solid Carbide 2 Flute Square End Mills



Square End or Ball End

- A versatile general purpose tool for slotting and peripheral milling
- Fine grain carbide for greater toughness, wear resistance, and higher transverse rupture strength
- Precision ground for reliability and outstanding performance
- Coatings for a wide range of applications
- 30° Helix, round shank

MADE IN THE USA

K Good in Cast Iron | M Good in Stainless Steels | P Good in Carbon and Tool Steels | N Good in Non-ferrous

				AlTiN		Uncoated	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/32	1/8	3/32	1-1/2	DD4030509	Price	DD4030601	Price
3/64	1/8	9/64	1-1/2	DD4035603	Price	DD4030603	Price
1/16	1/8	1/8	1-1/2	DD4039104	Price	-	-
1/16	1/8	3/16	1-1/2	DD4030336	Price	DD4030605	Price
5/64	1/8	1/4	1-1/2	DD4030337	Price	DD4030607	Price
3/32	1/8	3/16	1-1/2	DD4039105	Price	-	-
3/32	1/8	3/8	1-1/2	DD4030338	Price	DD4030609	Price
7/64	1/8	3/8	1-1/2	DD4030339	Price	DD4030611	Price
1/8	1/8	1/4	1-1/2	DD4090088	Price	DD4031407	Price
1/8	1/8	1/2	1-1/2	DD4096342	Price	DD4030613	Price
1/8	1/8	3/4	2-1/4	DD4036610	Price	DD4037608	Price
1/8	1/8	1	3	DD4034015	Price	DD4034008	Price
9/64	3/16	9/16	2	DD4030344	Price	-	-
5/32	3/16	9/16	2	DD4030503	Price	DD4030617	Price
3/16	3/16	3/8	2	DD4039131	Price	DD4031411	Price
3/16	3/16	5/8	2	DD4030554	Price	DD4030621	Price
3/16	3/16	3/4	2-1/2	DD4036619	Price	DD4037612	Price
3/16	3/16	1-1/8	3	DD4034023	Price	DD4034012	Price
7/32	1/4	5/8	2-1/2	DD4030348	Price	-	-
1/4	1/4	1/2	2	DD4039154	Price	DD4031415	Price
1/4	1/4	3/4	2-1/2	DD4030553	Price	DD4030629	Price
1/4	1/4	1-1/8	3	DD4036645	Price	DD4037616	Price
1/4	1/4	1-1/2	4	DD4034035	Price	DD4034016	Price
1/4	1/4	1-1/2	6	-	-	DD4031063	Price
5/16	5/16	13/16	2-1/2	DD4030557	Price	DD4030637	Price
5/16	5/16	1-1/8	3	DD4036640	Price	DD4037620	Price
5/16	5/16	1-5/8	4	DD4034036	Price	DD4034020	Price
3/8	3/8	1	2-1/2	DD4030556	Price	DD4030645	Price
3/8	3/8	1-1/8	3	DD4036646	Price	DD4037624	Price
3/8	3/8	1-1/2	6	-	-	DD4031035	Price
3/8	3/8	1-3/4	4	DD4034037	Price	DD4034024	Price
1/2	1/2	1	3	DD4030552	Price	DD4030661	Price
1/2	1/2	1-1/2	6	-	-	DD4031047	Price
1/2	1/2	2	4	DD4036647	Price	DD4037632	Price
1/2	1/2	3	6	DD4034039	Price	DD4034032	Price
5/8	5/8	1-1/4	3-1/2	DD4030532	Price	DD4030665	Price
5/8	5/8	2-1/4	5	DD4036648	Price	DD4037640	Price
3/4	3/4	1-1/2	4	DD4030700	Price	DD4030669	Price
3/4	3/4	2-1/4	5	DD4036649	Price	DD4037648	Price

2 Flute Solid Carbide End Mills



- Standard micro grain carbide
- Uncoated and TiAlN coated

				Bright		TiAlN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/32	1/8	1/8	1-1/2	TP37402031200	Price	TP37402031211	Price
1/16	1/8	1/8	1-1/2	TP37412062500	Price	TP37412062511	Price
1/16	1/8	3/16	1-1/2	TP37402062500	Price	TP37402062511	Price
3/32	1/8	3/16	1-1/2	TP37412093800	Price	-	-
3/32	1/8	5/16	1-1/2	TP37402093800	Price	TP37402093811	Price
1/8	1/8	1/4	1-1/2	TP37412125000	Price	-	-
1/8	1/8	1/2	1-1/2	TP37402125000	Price	TP37402125011	Price
1/8	1/8	3/4	2-1/4	TP37462125000	Price	-	-
1/8	1/8	1	3	TP37482125000	Price	TP37482125011	Price
5/32	3/16	5/16	2	TP37412156200	Price	-	-
5/32	3/16	9/16	2	TP37402156200	Price	TP37402156211	Price
3/16	3/16	3/8	2	TP37412187500	Price	TP37412187511	Price
3/16	3/16	5/8	2	TP37402187500	Price	TP37402187511	Price
3/16	3/16	3/4	2-1/4	TP37462187500	Price	-	-
3/16	3/16	1-1/8	3	TP37482187500	Price	-	-
7/32	1/4	7/16	2	TP37412218800	Price	TP37412218811	Price

2 Flute Solid Carbide End Mills (cont.)



				Bright		TiAlN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
7/32	1/4	5/8	2-1/2	**TP37402218800**	Price	**TP37402218811**	Price
1/4	1/4	1/2	2	**TP37412250000**	Price	**TP37412250011**	Price
1/4	1/4	3/4	2-1/2	**TP37402250000**	Price	**TP37402250011**	Price
1/4	1/4	1-1/8	3	**TP37462250000**	Price	-	-
1/4	1/4	1-1/2	4	**TP37482250000**	Price	-	-
9/32	5/16	3/4	2-1/2	**TP37402281200**	Price	**TP37402281211**	Price
5/16	5/16	1/2	2	**TP37412312500**	Price	-	-
5/16	5/16	13/16	2-1/2	**TP37402312500**	Price	**TP37402312511**	Price
5/16	5/16	1-1/8	3	**TP37462312500**	Price	-	-
5/16	5/16	1-5/8	4	**TP37482312500**	Price	-	-
3/8	3/8	5/8	2	**TP37412375000**	Price	-	-
3/8	3/8	1	2-1/2	**TP37402375000**	Price	**TP37402375011**	Price
3/8	3/8	1-1/8	3	**TP37462375000**	Price	**TP37462375011**	Price
3/8	3/8	1-3/4	4	**TP37482375000**	Price	-	-
7/16	7/16	5/8	2-1/2	**TP37412437500**	Price	**TP37412437511**	Price
7/16	7/16	1	2-3/4	**TP37402437500**	Price	**TP37402437511**	Price
7/16	7/16	2	4	**TP37462437500**	Price	**TP37462437511**	Price
7/16	7/16	3	6	**TP37482437500**	Price	-	-
1/2	1/2	5/8	2-1/2	**TP37412500000**	Price	**TP37412500011**	Price
1/2	1/2	1	3	**TP37402500000**	Price	**TP37402500011**	Price
1/2	1/2	2	4	**TP37462500000**	Price	**TP37462500011**	Price
1/2	1/2	3	6	**TP37482500000**	Price	-	-
5/8	5/8	1-1/4	3-1/2	**TP37402625000**	Price	**TP37402625011**	Price
5/8	5/8	2-1/4	5	**TP37462625000**	Price	**TP37462625011**	Price
5/8	5/8	3	6	**TP37482625000**	Price	-	-
3/4	3/4	1	3	**TP37412750000**	Price	**TP37412750011**	Price
3/4	3/4	1-1/2	4	**TP37402750000**	Price	**TP37402750011**	Price
3/4	3/4	2-1/4	5	**TP37462750000**	Price	**TP37462750011**	Price
3/4	3/4	3	6	**TP37482750000**	Price	-	-
7/8	7/8	1-1/2	4	**TP37402875000**	Price	**TP37402875011**	Price
1	1	1-1/2	4	**TP37402100000**	Price	**TP37402100011**	Price
1	1	2-1/4	5	**TP37462100000**	Price	**TP37462100011**	Price
1	1	3	6	**TP37482100000**	Price	**TP37482100011**	Price

Tuff Cut® GP 2 Flute Carbide End Mills

Stub Length • 30° Helix

- Designed for aggressive milling of most materials M.A. Ford List #164



				Uncoated		ALtima	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/64	1/8	.023	1-1/2	**DD1516400**	Price	-	-
1/32	1/8	1/16	1-1/2	**DD1516401**	Price	-	-
3/64	1/8	3/32	1-1/2	**DD1516405**	Price	-	-
1/16	1/8	1/8	1-1/2	**DD1516409**	Price	-	-
5/64	1/8	5/32	1-1/2	**DD1516410**	Price	-	-
3/32	1/8	3/16	1-1/2	**DD1516413**	Price	-	-
7/64	1/8	7/32	1-1/2	**DD1516416**	Price	-	-
1/8	1/8	1/4	1-1/2	**DD1516419**	Price	**DD1556434**	Price
9/64	3/16	5/16	2	**DD1516422**	Price	-	-
5/32	3/16	5/16	2	**DD1516423**	Price	-	-
11/64	3/16	3/8	2	**DD1516426**	Price	-	-
1/4	1/4	1/2	2	**DD1516439**	Price	**DD1556448**	Price
3/16	3/16	3/8	2	**DD1516429**	Price	**DD1556441**	Price
13/64	1/4	1/2	2	**DD1516432**	Price	-	-
7/32	1/4	1/2	2	**DD1516435**	Price	-	-
15/64	1/4	1/2	2	**DD1516436**	Price	-	-
9/32	5/16	1/2	2	**DD1516442**	Price	-	-
5/16	5/16	1/2	2	**DD1516443**	Price	**DD1556451**	Price
3/8	3/8	5/8	2	**DD1516449**	Price	**DD1556454**	Price
7/16	7/16	5/8	2-1/2	**DD1516455**	Price	**DD1556457**	Price
1/2	1/2	5/8	2-1/2	**DD1516459**	Price	**DD1556459**	Price
5/8	5/8	3/4	3	**DD1516463**	Price	**DD1556461**	Price
3/4	3/4	1	3	**DD1516467**	Price	**DD1556464**	Price

Tuff Cut® GP 2 Flute Carbide End Mills

Standard Length · Straight Shank · 30° Helix

- Designed for aggressive milling of most materials
- M.A. Ford List #121



				Uncoated		ALtima	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/64	1/8	1/32	1-1/2	**DD1512106**	Price	-	-
1/32	1/8	5/64	1-1/2	**DD1512114**	Price	-	-
3/64	1/8	7/64	1-1/2	**DD1512123**	Price	-	-
1/16	1/8	3/16	1-1/2	**DD1512132**	Price	-	-
5/64	1/8	3/16	1-1/2	**DD1512140**	Price	-	-
3/32	1/8	9/32	1-1/2	**DD1512146**	Price	-	-
7/64	1/8	3/8	1-1/2	**DD1512151**	Price	-	-
1/8	1/8	1/2	1-1/2	**DD1512150**	Price	-	-
1/8	1/8	3/8	1-1/2	**DD1512153**	Price	**DD1552155**	Price
9/64	3/16	1/2	2	**DD1512187**	Price	-	-
5/32	3/16	1/2	2	**DD1512157**	Price	-	-
11/64	3/16	5/8	2	**DD1512188**	Price	-	-
3/16	3/16	5/8	2	**DD1512160**	Price	**DD1552159**	Price
13/64	1/4	5/8	2-1/2	**DD1512189**	Price	-	-
7/32	1/4	5/8	2-1/2	**DD1512163**	Price	-	-
15/64	1/4	3/4	2-1/2	**DD1512190**	Price	-	-
1/4	1/4	3/4	2-1/2	**DD1512165**	Price	**DD1552165**	Price
9/32	5/16	3/4	2-1/2	**DD1512167**	Price	-	-
5/16	5/16	13/16	2-1/2	**DD1512168**	Price	**DD1552167**	Price
3/8	3/8	1	2-1/2	**DD1512171**	Price	**DD1552171**	Price
7/16	7/16	1	2-3/4	-	-	**DD1552175**	Price
1/2	1/2	1	3	**DD1512176**	Price	**DD1552179**	Price
9/16	9/16	1-1/8	3-1/2	**DD1512178**	Price	-	-
5/8	5/8	1-1/4	3-1/2	**DD1512179**	Price	**DD1552181**	Price
3/4	3/4	1-1/2	4	**DD1512182**	Price	**DD1552185**	Price
7/8	7/8	1-1/2	4	**DD1512185**	Price	-	-
1	1	1-1/2	4	**DD1512149**	Price	**DD1552151**	Price
1-1/4	1-1/4	1-9/16	4-3/8	**DD1512154**	Price	-	-

RAPIDKUT® 2 Flute Solid Carbide Corner Radius End Mills



Center Cutting

- Used when radius is permissable
- Radius gives added strength to corner
- Made from premium grain carbide
- 30° Helix

					Uncoated		TiN		TiCN		AlTiN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	1/2	1-1/2	.015	DD8315300	Price	DD8325300	Price	DD8345300	Price	DD8355300	Price
3/16	3/16	5/8	2	.015	DD8311551	Price	DD8321551	Price	DD8341551	Price	DD8351551	Price
3/16	3/16	5/8	2	.020	DD8315302	Price	DD8325302	Price	DD8345302	Price	DD8355302	Price
3/16	3/16	5/8	2	.030	DD8315304	Price	DD8325304	Price	DD8345304	Price	DD8355304	Price
1/4	1/4	3/4	2-1/2	.015	DD8316322	Price	DD8326322	Price	DD8346322	Price	DD8356322	Price
1/4	1/4	3/4	2-1/2	.020	DD8315306	Price	DD8325306	Price	DD8345306	Price	DD8355306	Price
1/4	1/4	3/4	2-1/2	.030	DD8315308	Price	DD8325308	Price	DD8345308	Price	DD8355308	Price
1/4	1/4	3/4	2-1/2	.045	DD8315310	Price	DD8325310	Price	DD8345310	Price	DD8355310	Price
5/16	5/16	13/16	2-1/2	.020	DD8315312	Price	DD8325312	Price	DD8345312	Price	DD8355312	Price
5/16	5/16	13/16	2-1/2	.030	DD8315314	Price	DD8325314	Price	DD8345314	Price	DD8355314	Price
5/16	5/16	13/16	2-1/2	.045	DD8315316	Price	DD8325316	Price	DD8345316	Price	DD8355316	Price
3/8	3/8	1	2-1/2	.020	DD8315318	Price	DD8325318	Price	DD8345318	Price	DD8355318	Price
3/8	3/8	1	2-1/2	.030	DD8315320	Price	DD8325320	Price	DD8345320	Price	DD8355320	Price
3/8	3/8	1	2-1/2	.045	DD8315322	Price	DD8325322	Price	DD8345322	Price	DD8355322	Price
1/2	1/2	1	3	.020	DD8315324	Price	DD8325324	Price	DD8345324	Price	DD8355324	Price
1/2	1/2	1	3	.030	DD8315326	Price	DD8325326	Price	DD8345326	Price	DD8355326	Price
1/2	1/2	1	3	.045	DD8315328	Price	DD8325328	Price	DD8345328	Price	DD8355328	Price
1/2	1/2	1	3	.060	DD8315330	Price	DD8325330	Price	DD8345330	Price	DD8355330	Price
5/8	5/8	1-1/4	3-1/2	.020	DD8315332	Price	DD8325332	Price	DD8345332	Price	DD8355332	Price
5/8	5/8	1-1/4	3-1/2	.030	DD8315334	Price	DD8325334	Price	DD8345334	Price	DD8355334	Price
5/8	5/8	1-1/4	3-1/2	.045	DD8315336	Price	DD8325336	Price	DD8345336	Price	DD8355336	Price
5/8	5/8	1-1/4	3-1/2	.060	DD8315338	Price	DD8325338	Price	DD8345338	Price	DD8355338	Price
5/8	5/8	1-1/4	3-1/2	.090	DD8315340	Price	DD8325340	Price	DD8345340	Price	DD8355340	Price
3/4	3/4	1-1/2	4	.020	DD8315342	Price	DD8325342	Price	DD8345342	Price	DD8355342	Price
3/4	3/4	1-1/2	4	.030	DD8315344	Price	DD8325344	Price	DD8345344	Price	DD8355344	Price
3/4	3/4	1-1/2	4	.045	DD8315346	Price	DD8325346	Price	DD8345346	Price	DD8355346	Price
3/4	3/4	1-1/2	4	.060	DD8315348	Price	DD8325348	Price	DD8345348	Price	DD8355348	Price
3/4	3/4	1-1/2	4	.090	DD8315350	Price	DD8325350	Price	DD8345350	Price	DD8355350	Price
3/4	3/4	1-1/2	4	.125	DD8315352	Price	DD8325352	Price	DD8345352	Price	DD8355352	Price
1	1	1-1/2	4	.020	DD8315354	Price	DD8325354	Price	DD8345354	Price	DD8355354	Price
1	1	1-1/2	4	.030	DD8315356	Price	DD8325356	Price	DD8345356	Price	DD8355356	Price
1	1	1-1/2	4	.045	DD8315358	Price	DD8325358	Price	DD8345358	Price	DD8355358	Price
1	1	1-1/2	4	.060	DD8314428	Price	DD8325428	Price	DD8345428	Price	DD8355428	Price
1	1	1-1/2	4	.090	DD8315430	Price	DD8325430	Price	DD8345430	Price	DD8355430	Price
1	1	1-1/2	4	.125	DD8315432	Price	DD8325432	Price	DD8345432	Price	DD8355432	Price

RAPIDKUT® 2 Flute Solid Carbide Long Reach End Mills



Reduced Neck • Square End

- Neck diameter reduced for clearance
- Neck reduction .020" - all sizes
- The solid neck area provides reach with maximum rigidity
- Used to mill deep pockets or slots where long flute lengths are not needed
- Made from premium submicron grain carbide
- Tolerances +.000/-.002"
- 30° Helix

					Uncoated		TiN		TiCN		AlTiN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	Neck Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	5/8	3/8	2	DD5016713	Price	DD5526713	Price	DD8046713	Price	DD8256713	Price
3/16	3/16	1	1-5/8	4	DD5016715	Price	DD5526715	Price	DD8046715	Price	DD8256715	Price
1/4	1/4	1-1/2	2-3/4	6	DD5016717	Price	DD5526717	Price	DD8046717	Price	DD8256717	Price
5/16	5/16	1-1/2	2-13/16	6	DD5016719	Price	DD5526719	Price	DD8046719	Price	DD8256719	Price
3/8	3/8	1-1/2	2-7/8	6	DD5016721	Price	DD5526721	Price	DD8046721	Price	DD8256721	Price
7/16	7/16	1-1/2	2-3/4	6	DD5016723	Price	DD5526723	Price	DD8046723	Price	DD8256723	Price
1/2	1/2	1-1/2	2-1/2	6	DD5016725	Price	DD5526725	Price	DD8046725	Price	DD8256725	Price
9/16	9/16	2	1-3/4	6	DD5016726	Price	DD5526726	Price	DD8046726	Price	DD8256726	Price
5/8	5/8	2	1-3/4	6	DD5016728	Price	DD5526728	Price	DD8046728	Price	DD8256728	Price
3/4	3/4	2	1-1/2	6	DD5016729	Price	DD5526729	Price	DD8046729	Price	DD8256729	Price
1	1	2	1-1/2	6	DD5016730	Price	DD5526730	Price	DD8046730	Price	DD8256730	Price

RAPIDKUT® 2 Flute Metric Solid Carbide Single End Mills



Regular Length

- Premium micrograin carbide
- Designed to cut materials ranging from nickel-based alloy, stainless, tough alloys, abrasives and non-ferrous metals
- 30° Helix

				Uncoated		TiN		AlTiN	
Dia. (mm)	Shank Dia. (mm)	Flute Length (mm)	OAL (mm)	Order No.	Price	Order No.	Price	Order No.	Price
2mm	3mm	9mm	38mm	DD502200MS	Price	DD552200MST	Price	DD8255987	Price
2.5mm	3mm	12mm	38mm	DD502250MS	Price	DD552250MST	Price	DD8255988	Price
3mm	3mm	12mm	38mm	DD502300MS	Price	DD552300MST	Price	DD8255989	Price
3.5mm	4mm	12mm	51mm	DD502350MS	Price	DD552350MST	Price	DD8255990	Price
4mm	4mm	14mm	51mm	DD502400MS	Price	DD552400MST	Price	DD8255991	Price
4.5mm	5mm	14mm	51mm	DD502450MS	Price	DD552450MST	Price	DD8255992	Price
5mm	5mm	20mm	51mm	-	-	-	-	DD8255993	Price
5mm	5mm	20mm	51mm	DD502500MS	Price	DD552500MST	Price	-	-
6mm	6mm	20mm	63mm	DD502600MS	Price	DD552600MST	Price	DD8255994	Price
7mm	8mm	20mm	63mm	DD502700MS	Price	DD552700MST	Price	DD8255995	Price
8mm	8mm	20mm	63mm	DD502800MS	Price	DD552800MST	Price	DD8255996	Price
9mm	10mm	22mm	70mm	DD502900MS	Price	DD552900MST	Price	DD8255997	Price
10mm	10mm	25mm	70mm	DD502010MS	Price	DD552010MST	Price	DD8255998	Price
11mm	12mm	25mm	76mm	-	-	DD552110MST	Price	DD8250218	Price
12mm	12mm	25mm	76mm	-	-	-	-	DD8255999	Price
12mm	12mm	25mm	76mm	DD502120MS	Price	DD552120MST	Price	-	-
13mm	13mm	22mm	70mm	-	-	DD552130MST	Price	-	-
14mm	14mm	32mm	89mm	DD502140MS	Price	DD552140MST	Price	DD8256926	Price
16mm	16mm	32mm	89mm	DD502160MS	Price	DD552160MST	Price	DD8256927	Price
18mm	18mm	38mm	100mm	DD502180MS	Price	DD552180MST	Price	DD8256928	Price
20mm	20mm	38mm	100mm	DD502002MS	Price	DD552002MST	Price	DD8256929	Price
25mm	25mm	38mm	100mm	DD502025MS	Price	DD552025MST	Price	DD8256931	Price

RAPIDKUT® 2 Flute Solid Carbide Ball End Single End Mills

Center Cutting • Stub, Regular and Long Lengths

- Used for radius and contouring part surfaces
- Designed to cut materials ranging from nickel base alloy, stainless, tough alloys, abrasives and non-ferrous
- Made from premium submicron grain carbide
- 30° Helix
- Cutting diameter tolerance:
  1/32 to 1/4" +.000/-.002"
  9/32 to 1" +.000/-.003"



				Uncoated		TiN		TiCN		AlTiN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/32	1/8	1/16	1-1/2	DD6016161	Price	DD6526161	Price	DD8046161	Price	DD8256161	Price
1/32	1/8	3/32	1-1/2	DD6012597	Price	DD6522597	Price	DD802002BTCN	Price	DD8252597	Price
3/64	1/8	1/8	1-1/2	DD6012599	Price	DD6522599	Price	DD802003BTCN	Price	DD8252599	Price
1/16	1/8	1/8	1-1/2	DD6016163	Price	DD6526163	Price	DD8046163	Price	DD8256163	Price
1/16	1/8	3/16	1-1/2	DD602004B	Price	DD652004BT	Price	DD802004BTCN	Price	DD8251823	Price
5/64	1/8	1/4	1-1/2	DD602005B	Price	DD652005BT	Price	-	-	DD8252601	Price
3/32	1/8	3/16	1-1/2	DD6016164	Price	DD6526164	Price	DD8046164	Price	DD8256164	Price
3/32	1/8	3/8	1-1/2	DD602006B	Price	DD652006BT	Price	DD802006BTCN	Price	DD8252603	Price
7/64	1/8	3/8	1-1/2	DD602007B	Price	DD652007BT	Price	-	-	DD8252605	Price
1/8	1/8	1/4	1-1/2	DD6017917	Price	DD6527917	Price	DD8047917	Price	DD8257917	Price
1/8	1/8	1/2	1-1/2	DD602008B	Price	DD652008BT	Price	DD802008BTCN	Price	DD8257903	Price
1/8	1/8	3/4	3	DD6016110	Price	DD6526110	Price	DD8046110	Price	DD8256110	Price
1/8	1/8	1	3	DD602008BL	Price	DD652008BLT	Price	-	-	DD8256176	Price
9/64	3/16	9/16	2	DD602009B	Price	DD652009BT	Price	-	-	DD8252607	Price
5/32	3/16	5/16	1-1/2	DD6016166	Price	DD6526166	Price	DD8046166	Price	DD8256166	Price
5/32	3/16	9/16	2	DD602010B	Price	DD652010BT	Price	DD802010BTCN	Price	DD8252609	Price
11/64	3/16	9/16	2	DD602011B	Price	DD652011BT	Price	-	-	DD8252611	Price
3/16	3/16	3/8	1-1/2	DD6016167	Price	DD6526167	Price	DD8046167	Price	DD8256167	Price
3/16	3/16	5/8	2	DD602012B	Price	DD652012BT	Price	DD802012BTCN	Price	DD8257904	Price
3/16	3/16	3/4	3	DD6016111	Price	DD6526111	Price	DD8046111	Price	DD8256111	Price
3/16	3/16	1-1/8	3	DD602012BL	Price	DD652012BLT	Price	-	-	DD8252577	Price
13/64	1/4	5/8	2	DD602013B	Price	DD652013BT	Price	-	-	DD8252613	Price
7/32	1/4	1/2	2	DD6016168	Price	DD6526168	Price	DD8046168	Price	DD8256168	Price
7/32	1/4	5/8	2-1/2	DD602014B	Price	DD652014BT	Price	DD802014BTCN	Price	DD8252615	Price
15/64	1/4	3/4	2-1/2	DD602015B	Price	DD652015BT	Price	-	-	DD8252617	Price
1/4	1/4	1/2	2	DD6017919	Price	DD6527919	Price	DD8047919	Price	DD8257919	Price
1/4	1/4	3/4	2-1/2	DD602016B	Price	DD652016BT	Price	DD802016BTCN	Price	DD8257905	Price
1/4	1/4	1-1/8	3	DD6011001	Price	DD6521001	Price	DD8041001	Price	DD8251001	Price
1/4	1/4	1-1/2	4	DD602016BL	Price	DD652016BLT	Price	-	-	DD8251003	Price
17/64	5/16	3/4	2-1/2	DD602017B	Price	DD652017BT	Price	-	-	DD8252619	Price
9/32	5/16	3/4	2-1/2	DD602018B	Price	DD652018BT	Price	DD802018BTCN	Price	DD8252621	Price
19/64	5/16	13/16	2-1/2	DD602019B	Price	DD652019BT	Price	-	-	DD8252623	Price
5/16	5/16	1/2	2	DD6016170	Price	DD6526170	Price	DD8046170	Price	DD8256170	Price
5/16	5/16	13/16	2-1/2	DD602020B	Price	DD652020BT	Price	DD802020BTCN	Price	DD8257906	Price
5/16	5/16	1-1/8	3	DD6016113	Price	DD6526113	Price	DD8046113	Price	DD8256113	Price
5/16	5/16	1-5/8	4	DD602020BL	Price	DD652020BLT	Price	-	-	DD8252573	Price
11/32	3/8	7/8	2-1/2	DD6012625	Price	DD6522625	Price	DD8042625	Price	DD8252625	Price
3/8	3/8	5/8	2	DD6017921	Price	DD6527921	Price	DD8047921	Price	DD8257921	Price
3/8	3/8	1	2-1/2	DD602024B	Price	DD652024BT	Price	DD802024BTCN	Price	DD8257907	Price
3/8	3/8	1-3/4	4	DD602024BL	Price	DD652024BLT	Price	-	-	DD8251007	Price
13/32	7/16	1	2-3/4	DD6012629	Price	DD6522629	Price	DD8042629	Price	DD8252629	Price
7/16	7/16	1	2-3/4	DD602028B	Price	DD652028BT	Price	DD802028BTCN	Price	DD8257908	Price
7/16	7/16	2	4	DD6016115	Price	DD6526115	Price	DD8046115	Price	DD8256115	Price
7/16	7/16	3	6	DD602028BL	Price	DD652028BLT	Price	-	-	-	-
1/2	1/2	5/8	2-1/2	DD6017923	Price	DD6527923	Price	DD8047923	Price	DD8257923	Price
1/2	1/2	1	3	DD602032B	Price	DD652032BT	Price	DD802032BTCN	Price	DD8257909	Price
1/2	1/2	2	4	DD6011009	Price	DD6521009	Price	DD8041009	Price	DD8251009	Price
1/2	1/2	3	6	DD602032BL	Price	DD652032BLT	Price	-	-	DD8251011	Price
9/16	9/16	1-1/4	3-1/2	DD602036B	Price	DD652036BT	Price	DD802036BTCN	Price	DD8252727	Price
5/8	5/8	3/4	3	DD6016174	Price	DD6526174	Price	DD8046174	Price	DD8256174	Price
5/8	5/8	1-1/4	3-1/2	DD602040B	Price	DD652040BT	Price	DD802040BTCN	Price	DD8251013	Price
5/8	5/8	3	6	DD602040BL	Price	DD652040BLT	Price	-	-	DD8251017	Price
11/16	3/4	1-3/8	4	DD602044B	Price	DD652044BT	Price	DD802044BTCN	Price	DD8250318	Price
3/4	3/4	1	3	DD6016175	Price	DD6526175	Price	DD8046175	Price	DD8256175	Price
3/4	3/4	1-3/8	4	-	-	-	-	-	-	DD8251019	Price
3/4	3/4	1-1/2	4	DD602048B	Price	DD652048BT	Price	DD802048BTCN	Price	-	-
3/4	3/4	2-1/4	5	DD6011021	Price	DD6521021	Price	-	-	DD8251021	Price
3/4	3/4	3	6	DD602048BL	Price	DD652048BLT	Price	-	-	DD8251023	Price
7/8	7/8	1-1/2	4	DD602056B	Price	DD652056BT	Price	DD802056BTCN	Price	DD8254012	Price
1	1	3	6	DD602100BL	Price	DD652100BLT	Price	-	-	DD8251029	Price
1	1	1-1/2	4	DD602100B	Price	DD652100BT	Price	DD802100BTCN	Price	DD8251025	Price

TuffCut® GP 2 Flute Ball Nose Carbide End Mills

- Stub length
- 30° Helix
- Straight shank
- Designed for aggressive milling of most materials with reduced deflection and improved tool life and overall economy
- M.A. Ford List #166



				Uncoated		ALtima	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/64	1/8	.023	1-1/2	**DD1516600**	Price	-	-
1/32	1/8	1/16	1-1/2	**DD1516601**	Price	-	-
3/64	1/8	3/32	1-1/2	**DD1516605**	Price	-	-
1/16	1/8	1/8	1-1/2	**DD1516609**	Price	-	-
5/64	1/8	5/32	1-1/2	**DD1516610**	Price	-	-
3/32	1/8	3/16	1-1/2	**DD1516613**	Price	-	-
7/64	1/8	7/32	1-1/2	**DD1516616**	Price	-	-
1/8	1/8	1/4	1-1/2	**DD1516619**	Price	**DD1556634**	Price
9/64	3/16	5/16	2	**DD1516622**	Price	-	-
5/32	3/16	5/16	2	**DD1516623**	Price	-	-
11/64	3/16	3/8	2	**DD1516626**	Price	-	-
3/16	3/16	3/8	2	**DD1516629**	Price	**DD1556641**	Price

				Uncoated		ALtima	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
13/64	1/4	1/2	2	**DD1516632**	Price	-	-
7/32	1/4	1/2	2	**DD1516635**	Price	-	-
15/64	1/4	1/2	2	**DD1516636**	Price	-	-
1/4	1/4	1/2	2	**DD1516639**	Price	**DD1556648**	Price
9/32	5/16	1/2	2	**DD1516642**	Price	-	-
5/16	5/16	1/2	2	**DD1516643**	Price	**DD1556651**	Price
3/8	3/8	5/8	2	**DD1516649**	Price	**DD1556654**	Price
7/16	7/16	5/8	2-1/2	**DD1516655**	Price	**DD1556657**	Price
1/2	1/2	5/8	2-1/2	**DD1516659**	Price	**DD1556659**	Price
5/8	5/8	3/4	3	**DD1516663**	Price	**DD1556661**	Price
3/4	3/4	1	3	**DD1516669**	Price	**DD1556664**	Price

TuffCut® GP 2 Flute Ball Nose Carbide End Mills

Standard Length • 30° Helix

- Manufactured with a full ball radius end
- Designed for milling fillets or similar rounded corners in the bottom of a cut
- Ideal for most ferrous metal applications
- M.A. Ford List #150



				Uncoated		ALtima	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/32	1/8	5/64	1-1/2	**DD1515001**	Price	-	-
3/64	1/8	7/64	1-1/2	**DD1515005**	Price	-	-
1/16	1/8	3/16	1-1/2	**DD1515009**	Price	-	-
5/64	1/8	3/16	1-1/2	**DD1515011**	Price	-	-
3/32	1/8	9/32	1-1/2	**DD1515015**	Price	-	-
7/64	1/8	3/8	1-1/2	**DD1515021**	Price	-	-
1/8	1/8	3/8	1-1/2	**DD1515025**	Price	**DD1555041**	Price
5/32	3/16	1/2	2	**DD1515029**	Price	-	-
3/16	3/16	5/8	2	**DD1515035**	Price	**DD1555043**	Price
7/32	1/4	5/8	2-1/2	**DD1515041**	Price	-	-
1/4	1/4	3/4	2-1/2	**DD1515045**	Price	**DD1555046**	Price

				Uncoated		ALtima	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
9/32	5/16	3/4	2-1/2	**DD1515049**	Price	-	-
5/16	5/16	13/16	2-1/2	**DD1515051**	Price	**DD1555047**	Price
3/8	3/8	1	2-1/2	**DD1515057**	Price	**DD1555049**	Price
7/16	7/16	1	2-3/4	**DD1515063**	Price	**DD1555051**	Price
1/2	1/2	1	3	**DD1515067**	Price	**DD1555053**	Price
9/16	9/16	1-1/8	3-1/2	**DD1515071**	Price	-	-
5/8	5/8	1-1/4	3-1/2	**DD1515073**	Price	**DD1555054**	Price
11/16	3/4	1-3/8	4	**DD1515077**	Price	-	-
3/4	3/4	1-1/2	4	**DD1515081**	Price	**DD1555056**	Price
7/8	7/8	1-1/2	4	**DD1515087**	Price	-	-
1	1	1-1/2	4	**DD1515019**	Price	**DD1555095**	Price

truCORE® E12B Solid Carbide 2 Flute Ball Nose End Mills

MADE IN THE USA

- Precision ground for reliability and outstanding performance
- Fine grain carbide for greater toughness, wear resistance, and higher transverse rupture strength
- Round shank, 30° Helix

K Good in Cast Iron
M Good in Stainless Steels
P Good in Carbon and Tool Steels
N Good in Non-ferrous



				AlTiN		Uncoated	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/32	1/8	3/32	1-1/2	**DD4030303**	Price	**DD4030801**	Price
3/64	1/8	9/64	1-1/2	**DD4030302**	Price	**DD4030803**	Price
1/16	1/8	1/8	1-1/2	**DD4030374**	Price	-	-
1/16	1/8	3/16	1-1/2	**DD4030433**	Price	**DD4030805**	Price
5/64	1/8	1/4	1-1/2	**DD4030349**	Price	**DD4030807**	Price
3/32	1/8	3/16	1-1/2	**DD4030375**	Price	-	-
3/32	1/8	3/8	1-1/2	**DD4030350**	Price	**DD4030809**	Price
7/64	1/8	3/8	1-1/2	-	-	**DD4030811**	Price
1/8	1/8	1/4	1-1/2	**DD4031956**	Price	**DD4031607**	Price
1/8	1/8	1/2	1-1/2	**DD4030993**	Price	**DD4030813**	Price
1/8	1/8	3/4	2-1/4	**DD4030385**	Price	**DD4037808**	Price
1/8	1/8	1	3	**DD4031291**	Price	**DD4034208**	Price
5/32	3/16	9/16	2	**DD4030354**	Price	**DD4030817**	Price
3/16	3/16	3/8	2	**DD4030378**	Price	-	-
3/16	3/16	5/8	2	**DD4090087**	Price	**DD4030821**	Price
3/16	3/16	3/4	2-1/2	**DD4030386**	Price	**DD4037812**	Price
3/16	3/16	1-1/8	3	**DD4090081**	Price	**DD4034212**	Price
1/4	1/4	1/2	2	**DD4030563**	Price	-	-
1/4	1/4	3/4	2-1/2	**DD4030994**	Price	**DD4030829**	Price

				AlTiN		Uncoated	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/4	1/4	1-1/8	3	**DD4030387**	Price	**DD4037816**	Price
1/4	1/4	1-1/2	4	**DD4090082**	Price	**DD4034216**	Price
1/4	1/4	1-1/2	6	-	-	**DD4031263**	Price
5/16	5/16	13/16	2-1/2	**DD4030562**	Price	**DD4030837**	Price
5/16	5/16	1-1/8	3	**DD4020561**	Price	**DD4037820**	Price
3/8	3/8	1	2-1/2	**DD4030995**	Price	**DD4030845**	Price
3/8	3/8	1-1/8	3	**DD4030390**	Price	**DD4037824**	Price
3/8	3/8	1-1/2	6	-	-	**DD4031235**	Price
3/8	3/8	1-3/4	4	**DD4031293**	Price	**DD4034224**	Price
1/2	1/2	1	3	**DD4097921**	Price	**DD4030861**	Price
1/2	1/2	1-1/2	6	-	-	**DD4031247**	Price
1/2	1/2	2	4	**DD4030392**	Price	**DD4037832**	Price

2 Flute Carbide Ball Nose End Mills



- Micrograin carbide end mill
- Regular length
- Ball end
- OSG List #402BN

Type - Fractional Ball End					
Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/32	1/8	1/8	1-1/2	**TP374020312BN**	Price
3/64	1/8	9/64	1-1/2	**TP374020469BN**	Price
1/16	1/8	3/16	1-1/2	**TP374020625BN**	Price
5/64	1/8	1/4	1-1/2	**TP374020781BN**	Price
3/32	1/8	5/16	1-1/2	**TP374020938BN**	Price
1/8	1/8	1/2	1-1/2	**TP374021250BN**	Price
9/64	3/16	1/2	2	**TP374021406BN**	Price
5/32	3/16	9/16	2	**TP374021562BN**	Price
3/16	3/16	5/8	2	**TP374021875BN**	Price
13/64	1/4	5/8	2-1/2	**TP374022031BN**	Price
7/32	1/4	5/8	2-1/2	**TP374022188BN**	Price
1/4	1/4	3/4	2-1/2	**TP374022500BN**	Price
17/64	5/16	3/4	2-1/2	**TP374022656BN**	Price
9/32	5/16	3/4	2-1/2	**TP374022812BN**	Price
5/16	5/16	13/16	2-1/2	**TP374023125BN**	Price
3/8	3/8	1	2-1/2	**TP374023750BN**	Price
7/16	7/16	1	2-3/4	**TP374024375BN**	Price
1/2	1/2	1	3	**TP374025000BN**	Price
5/8	5/8	1-1/4	3-1/2	**TP374026250BN**	Price
3/4	3/4	1-1/2	4	**TP374027500BN**	Price
7/8	7/8	1-1/2	4	**TP374028750BN**	Price
1	1	1-1/2	4	**TP374021000BN**	Price

Type - Metric Ball End					
Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1mm	3mm	3mm	39mm	**TP374020394BN**	Price
1.5mm	3mm	5mm	39mm	**TP374020591BN**	Price
2mm	3mm	7mm	39mm	**TP374020787BN**	Price
2.5mm	3mm	8mm	39mm	**TP374020984BN**	Price
3mm	3mm	10mm	39mm	**TP374021181BN**	Price
4mm	4mm	14mm	51mm	**TP374021575BN**	Price
5mm	5mm	16mm	51mm	**TP374021968BN**	Price
6mm	6mm	19mm	64mm	**TP374022362BN**	Price
7mm	8mm	19mm	64mm	**TP374022756BN**	Price
8mm	8mm	21mm	64mm	**TP374023150BN**	Price
10mm	10mm	25mm	70mm	**TP374023937BN**	Price
12mm	12mm	25mm	76mm	**TP374024724BN**	Price
14mm	14mm	30mm	89mm	**TP374025512BN**	Price
16mm	16mm	32mm	89mm	**TP374026299BN**	Price
18mm	18mm	35mm	102mm	**TP374027087BN**	Price
20mm	20mm	38mm	102mm	**TP374027874BN**	Price

RAPIDKUT 2 Flute Metric Solid Carbide Ball End Single End Mills



- Premium micrograin carbide
- 30° Helix

				Uncoated		TiN		AlTiN	
Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price	Order No.	Price	Order No.	Price
2mm	3mm	9mm	38mm	**DD602200MB**	Price	**DD652200MBT**	Price	**DD6056555**	Price
2.5mm	3mm	12mm	38mm	**DD602250MB**	Price	**DD652250MBT**	Price	**DD6056556**	Price
3mm	3mm	12mm	38mm	**DD602300MB**	Price	**DD652300MBT**	Price	**DD6056557**	Price
3.5mm	4mm	12mm	51mm	**DD602350MB**	Price	**DD652350MBT**	Price	**DD6056558**	Price
4mm	4mm	14mm	51mm	**DD602400MB**	Price	**DD652400MBT**	Price	**DD6056559**	Price
4.5mm	5mm	14mm	51mm	**DD602450MB**	Price	**-**	-	**DD6056560**	Price
5mm	5mm	20mm	51mm	**DD602500MB**	Price	**DD652500MBT**	Price	**DD6056561**	Price
6mm	6mm	20mm	63mm	**DD602600MB**	Price	**DD652600MBT**	Price	**DD6056562**	Price
7mm	8mm	20mm	63mm	**DD602700MB**	Price	**DD652700MBT**	Price	**DD6056563**	Price
8mm	8mm	20mm	63mm	**DD602800MB**	Price	**DD652800MBT**	Price	**DD6056564**	Price
9mm	10mm	22mm	70mm	**DD602900MB**	Price	**-**	-	**DD6056565**	Price
10mm	10mm	25mm	70mm	**DD602010MB**	Price	**-**	-	**DD6056566**	Price
11mm	12mm	22mm	70mm	**DD602110MB**	Price	**-**	-	**DD6050286**	Price
12mm	12mm	25mm	76mm	**DD602120MB**	Price	**-**	-	**DD6056567**	Price
14mm	14mm	32mm	89mm	**DD602140MB**	Price	**DD652140MBT**	Price	**DD6056568**	Price
16mm	16mm	32mm	89mm	**DD602160MB**	Price	**-**	-	**DD6056569**	Price
18mm	18mm	38mm	100mm	**-**	-	**DD652180MBT**	Price	**DD6056570**	Price
20mm	20mm	38mm	100mm	**DD602002MB**	Price	**DD652002MBT**	Price	**DD6056571**	Price
25mm	25mm	38mm	100mm	**DD602025MB**	Price	**DD652025MBT**	Price	**DD6056808**	Price

RAPIDKUT 2 Flute Solid Carbide Double End Mills



Center Cutting • Stub Length

- 30º Helix
- Used for general purpose milling in most materials of medium hardness such as steel, brass, iron and non-ferrous materials
- Made from premium submicron grain carbide
- Cutting diameter tolerance +.000/.002”

				Uncoated		TiCN		AlTiN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/32	1/8	1/16	1-1/2	**DD502002D**	Price	**DD802002DTCN**	Price	**DD8257931**	Price
3/64	1/8	3/32	1-1/2	**DD502003D**	Price	**DD802003DTCN**	Price	**DD8257932**	Price
1/16	1/8	1/8	1-1/2	**DD502004D**	Price	**DD802004DTCN**	Price	**DD8256618**	Price
3/32	1/8	3/16	1-1/2	**DD502006D**	Price	**DD802006DTCN**	Price	**DD8256620**	Price
1/8	1/8	1/4	1-1/2	**DD502008D**	Price	**DD802008DTCN**	Price	**DD8256621**	Price
5/32	3/16	5/16	2	**DD502010D**	Price	**DD802010DTCN**	Price	**DD8257934**	Price
3/16	3/16	3/8	2	**DD502012D**	Price	**DD802012DTCN**	Price	**DD8257936**	Price
7/32	1/4	1/2	2-1/2	**DD502014D**	Price	**DD802014DTCN**	Price	**DD8257938**	Price
1/4	1/4	1/2	2-1/2	**DD502016D**	Price	**DD802016DTCN**	Price	**DD8257940**	Price
5/16	5/16	1/2	2-1/2	**DD502020D**	Price	**DD802020DTCN**	Price	**DD8257941**	Price
3/8	3/8	9/16	2-1/2	**DD502024D**	Price	**DD802024DTCN**	Price	**DD8257942**	Price
7/16	7/16	5/8	3	**DD502028D**	Price	**DD802028DTCN**	Price	**DD8257943**	Price
1/2	1/2	5/8	3	**DD502032D**	Price	**DD802032DTCN**	Price	**DD8257944**	Price

SOLID MORSE MASTER Solid Carbide 2 Flute Double End Mills



Style - Standard											
				Uncoated		TiN		TiCN		Price	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	3/8	3/8	3-1/8	MT3257158	Price	MT3290350	Price	MT3290360	Price	MT3290370	Price
5/32	3/8	7/16	3-1/8	MT3257160	Price	MT3290351	Price	MT3290361	Price	MT3290371	Price
3/16	3/8	1/2	3-1/4	MT3257162	Price	MT3290352	Price	MT3290362	Price	MT3290372	Price
7/32	3/8	9/16	3-3/8	MT3257164	Price	MT3290353	Price	MT3290363	Price	MT3290373	Price
1/4	3/8	5/8	3-3/8	MT3257166	Price	MT3290354	Price	MT3290364	Price	MT3290374	Price
9/32	3/8	11/16	3-3/8	MT3257168	Price	MT3290355	Price	MT3290365	Price	MT3290375	Price
5/16	3/8	3/4	3-1/2	MT3257170	Price	MT3290356	Price	MT3290366	Price	MT3290376	Price
3/8	3/8	3/4	3-1/2	MT3257174	Price	MT3290357	Price	MT3290367	Price	MT3290377	Price
7/16	1/2	7/8	4	MT3257178	Price	-	-	-	-	MT3290378	Price
7/16	7/16	7/8	4	-	-	MT3290358	Price	MT3290368	Price	-	-
1/2	1/2	1	4	MT3257182	Price	MT3290359	Price	MT3290369	Price	MT3290379	Price

Style - Stub											
				Uncoated		TiN		TiCN		TiAlN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/16	1/8	1/8	1-1/2	MT3257250	Price	MT3290300	Price	MT3290311	Price	MT3290322	Price
3/32	1/8	3/16	1-1/2	MT3257251	Price	MT3290301	Price	MT3290312	Price	MT3290323	Price
1/8	1/8	1/4	2	MT3257252	Price	MT3290302	Price	MT3290313	Price	MT3290324	Price
5/32	3/16	5/16	2	MT3257253	Price	MT3290303	Price	MT3290314	Price	MT3290325	Price
3/16	3/16	3/8	2	MT3257254	Price	MT3290304	Price	MT3290315	Price	MT3290326	Price
7/32	1/4	1/2	2-1/2	MT3257255	Price	MT3290305	Price	MT3290316	Price	MT3290327	Price
1/4	1/4	1/2	2-1/2	MT3257256	Price	MT3290306	Price	MT3290317	Price	MT3290328	Price
5/16	5/16	1/2	2-1/2	MT3257257	Price	MT3290307	Price	MT3290318	Price	MT3290329	Price
3/8	3/8	9/16	3	MT3257258	Price	MT3290308	Price	MT3290319	Price	MT3290330	Price
7/16	7/16	9/16	3	MT3257259	Price	MT3290309	Price	MT3290320	Price	MT3290331	Price
1/2	1/2	5/8	3	MT3257260	Price	MT3290310	Price	MT3290321	Price	MT3290332	Price

RAPIDKUT® 2 Flute Solid Carbide Ball End Double End Mills



Center Cutting • Stub Length

- 30º Helix
- Use for radius and contouring part surfaces
- Designed to cut materials ranging from nickel base alloy, stainless, tough alloys, abrasives and non-ferrous
- Made from premium submicron grain carbide
- Cutting diameter tolerance +.000/.002”

				Uncoated		TiN		TiCN		AlTiN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/32	1/8	1/16	1-1/2	DD602002DB	Price	DD652002DBT	Price	DD802002DBTCN	Price	DD8252715	Price
3/64	1/8	3/32	1-1/2	DD602003DB	Price	DD652003DBT	Price	DD802003DBTCN	Price	DD8252717	Price
1/16	1/8	1/8	1-1/2	DD602004DB	Price	DD652004DBT	Price	DD802004DBTCN	Price	DD8252719	Price
3/32	1/8	3/16	1-1/2	DD602006DB	Price	DD652006DBT	Price	DD802006DBTCN	Price	DD8252721	Price
1/8	1/8	1/4	1-1/2	DD602008DB	Price	DD652008DBT	Price	DD802008DBTCN	Price	DD8252651	Price
5/32	3/16	5/16	2	DD602010DB	Price	DD652010DBT	Price	DD802010DBTCN	Price	DD8252652	Price
3/16	3/16	3/8	2	DD602012DB	Price	DD652012DBT	Price	DD802012DBTCN	Price	DD8252655	Price
7/32	1/4	1/2	2-1/2	DD602014DB	Price	DD652014DBT	Price	DD802014DBTCN	Price	DD8252653	Price
1/4	1/4	1/2	2-1/2	DD602016DB	Price	DD652016DBT	Price	DD802016DBTCN	Price	DD8252565	Price
5/16	5/16	1/2	2-1/2	DD602020DB	Price	DD652020DBT	Price	DD802020DBTCN	Price	DD8252654	Price
3/8	3/8	9/16	2-1/2	DD602024DB	Price	DD652024DBT	Price	DD802024DBTCN	Price	DD8252656	Price
7/16	7/16	5/8	3	DD602028DB	Price	DD652028DBT	Price	DD802028DBTCN	Price	DD8252657	Price
1/2	1/2	5/8	3	DD602032DB	Price	DD652032DBT	Price	DD802032DBTCN	Price	DD8252743	Price

MICRO 100 3 Flute Solid Carbide End Mills

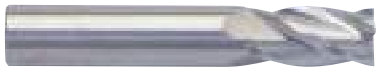


Corner Radius • Center Cutting

- Ideally suited for heavier cuts in medium and hard materials
- 30° Helix

					AlTiN		Uncoated	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Corner Radius (in.)	Order No.	Price	Order No.	Price
1/32	1/8	5/64	1-1/2	.005	GE45GEC0313005X	Price	GE45GEC0313005	Price
1/16	1/8	3/16	1-1/2	.005	GE45GEC0623005X	Price	GE45GEC0623005	Price
1/16	1/8	3/16	1-1/2	.010	GE45GEC0623010X	Price	GE45GEC0623010	Price
3/32	1/8	3/8	1-1/2	.010	GE45GEC0933010X	Price	GE45GEC0933010	Price
1/8	1/8	1/2	1-1/2	.010	GE45GEC1253010X	Price	GE45GEC1253010	Price
1/8	1/8	1/2	1-1/2	.020	GE45GEC1253020X	Price	GE45GEC1253020	Price
3/16	3/16	5/8	2	.020	GE45GEC1873020X	Price	GE45GEC1873020	Price
3/16	3/16	5/8	2	.030	GE45GEC1873030X	Price	GE45GEC1873030	Price
1/4	1/4	3/4	2-1/2	.020	GE45GEC2503020X	Price	GE45GEC2503020	Price
1/4	1/4	3/4	2-1/2	.030	GE45GEC2503030X	Price	GE45GEC2503030	Price
3/8	3/8	7/8	2-1/2	.030	GE45GEC3753030X	Price	GE45GEC3753030	Price

MICRO 100 Universal End Mills



Center Cutting - Single End - 30° Helix

- Standard Length
- Material: soft, medium, hard
- Rake: +
- Finishing, semi-finishing, roughing

Tolerances:
Shank diameter: -.0001 to .0005”
Cutter diameter: 1/32-1/4 +.000-.002”; 9/32-1 +.000-.003”
T.I.R. maximum: .0005”

				2 Flute		3 Flute		4 Flute	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/32	1/8	5/64	1-1/2	**GE45GEM0312**	Price	**GE45GEM0313**	Price	**GE45GEM0314**	Price
1/16	1/8	3/16	1-1/2	**GE45GEM0622**	Price	**GE45GEM0623**	Price	**GE45GEM0624**	Price
3/32	1/8	3/8	1-1/2	**GE45GEM0932**	Price	**GE45GEM0933**	Price	**GE45GEM0934**	Price
1/8	1/8	1/2	1-1/2	**GE45GEM1252**	Price	**GE45GEM1253**	Price	**GE45GEM1254**	Price
5/32	3/16	9/16	2	**GE45GEM1562**	Price	**GE45GEM1563**	Price	**GE45GEM1564**	Price
3/16	3/16	5/8	2	**GE45GEM1872**	Price	**GE45GEM1873**	Price	**GE45GEM1874**	Price
7/32	1/4	5/8	2-1/2	**-**	-	**-**	-	**GE45GEM2184**	Price
1/4	1/4	3/4	2-1/2	**GE45GEM2502**	Price	**GE45GEM2503**	Price	**GE45GEM2504**	Price
9/32	5/16	3/4	2-1/2	**-**	-	**GE45GEM2813**	Price	**GE45GEM2814**	Price
5/16	5/16	13/16	2-1/2	**-**	-	**-**	-	**GE45GEM3124**	Price
3/8	3/8	7/8	2-1/2	**GE45GEM3752**	Price	**GE45GEM3753**	Price	**GE45GEM3754**	Price
7/16	7/16	1	2-1/2	**-**	-	**-**	-	**GE45GEM4374**	Price
1/2	1/2	1	3	**-**	-	**GE45GEM5003**	Price	**GE45GEM5004**	Price
9/16	9/16	1-1/4	3-1/2	**-**	-	**-**	-	**GE45GEM5624**	Price
5/8	5/8	1-1/4	3-1/2	**-**	-	**-**	-	**GE45GEM6254**	Price
3/4	3/4	1-1/2	4	**-**	-	**-**	-	**GE45GEM7504**	Price
7/8	7/8	1-1/2	4	**-**	-	**-**	-	**GE45GEM8754**	Price

MICRO 100 Metric Universal End Mills



- Features slightly increased flute and overall lengths for greater versatility
- Good for a variety of different materials ranging from soft to hard
- Shank diameter: -.0025mm to .0076mm
- Cutter diameter tolerances: **1mm - 3mm** +.000 / -.04mm; **4mm - 6mm** +.000mm / -.018mm; **8mm - 10mm** +.000mm / -.036mm;**12mm - 14mm** +.000mm / -.043mm

				2 Flute		3 Flute		4 Flute	
Dia. (D1)	Shank Dia. (D2)	2-3 Flute Length (L2)	OAL (L1)	Order No.	Price	Order No.	Price	Order No.	Price
1mm	3mm	3mm	38mm	**GE45GEMM0102**	Price	**GE45GEMM0103**	Price	**GE45GEMM0104**	Price
3mm	3mm	7mm	38mm	**GE45GEMM0302**	Price	**GE45GEMM0303**	Price	**-**	-
3mm	3mm	8mm	38mm	**-**	-	**-**	-	**GE45GEMM0304**	Price
5mm	5mm	13mm	50mm	**-**	-	**-**	-	**GE45GEMM0504**	Price
6mm	6mm	10mm	57mm	**GE45GEMM0602**	Price	**-**	-	**-**	-
6mm	6mm	13mm	57mm	**-**	-	**-**	-	**GE45GEMM0604**	Price
8mm	8mm	19mm	63mm	**-**	-	**-**	-	**GE45GEMM0804**	Price
10mm	10mm	19mm	72mm	**GE45GEMM1002**	Price	**GE45GEMM1003**	Price	**-**	-
10mm	10mm	22mm	72mm	**-**	-	**-**	-	**GE45GEMM1004**	Price
12mm	12mm	26mm	83mm	**-**	-	**-**	-	**GE45GEMM1204**	Price
14mm	14mm	26mm	83mm	**-**	-	**-**	-	**GE45GEMM1404**	Price

MICRO 100 Stub End Mills



Center Cutting - Single End - 30° Helix

- Shank diameter tolerance: -.0001 to -.0005”
- Cutter diameter tolerances: 1/32 - 1/4” +.000-.002”; 9/32 - 1/2” +.000-.003”; T.I.R.: .0005”

				2 Flute		3 Flute		4 Flute	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/32	1/8	1/16	1-1/2	**GE45SEM03102**	Price	**-**	-	**GE45SEM03104**	Price
3/64	1/8	3/32	1-1/2	**-**	-	**GE45SEM04603**	Price	**GE45SEM04604**	Price
1/16	1/8	1/8	1-1/2	**GE45SEM06202**	Price	**GE45SEM06203**	Price	**GE45SEM06204**	Price
5/64	1/8	5/32	1-1/2	**GE45SEM07802**	Price	**GE45SEM07803**	Price	**GE45SEM07804**	Price
3/32	1/8	3/16	1-1/2	**GE45SEM09302**	Price	**GE45SEM09303**	Price	**GE45SEM09304**	Price
7/64	1/8	3/16	1-1/2	**GE45SEM10902**	Price	**GE45SEM10903**	Price	**GE45SEM10904**	Price
1/8	1/8	1/4	1-1/2	**GE45SEM12502**	Price	**-**		**GE45SEM12504**	Price
9/64	3/16	1/4	1-1/2	**GE45SEM14002**	Price	**GE45SEM14003**	Price	**GE45SEM14004**	Price
5/32	3/16	5/16	1-1/2	**-**	-	**GE45SEM15603**	Price	**GE45SEM15604**	Price
3/16	3/16	3/8	1-1/2	**-**	-	**GE45SEM18703**	Price	**GE45SEM18704**	Price
13/64	1/4	3/8	2	**-**		**Price**	-	**GE45SEM20304**	Price
7/32	1/4	7/16	2	**-**	-	**-**	-	**GE45SEM21804**	Price
15/64	1/4	7/16	2	**-**	-	**-**	-	**GE45SEM23404**	Price
1/4	1/4	1/2	2	**GE45SEM25002**	Price	**GE45SEM25003**	Price	**GE45SEM25004**	Price
9/32	5/16	1/2	2	**-**	-	**-**	-	**GE45SEM28104**	Price
21⁄64	3/8	1/2	2	**GE45SEM32802**	Price	**-**	-	**GE45SEM32804**	Price
3/8	3/8	5/8	2	**GE45SEM37502**	Price	**GE45SEM37503**	Price	**GE45SEM37504**	Price
25/64	7/16	5/8	2-1/2	**-**	-	**-**	-	**GE45SEM39004**	Price
1/2	1/2	5/8	2-1/2	**-**	-	**-**	-	**GE45SEM50004**	Price

MICRO 100 N/C Generation End Mills

Center Cutting - Single End - 30° Helix

- Special flute diameter for maintaining radii with close tolerances
- Shank diameter tolerance: -.0001 to -.0003
- Cutter diameter tolerances : +.001 - .0000
- T.I.R. maximum .0005
- Sizes 3/8 and larger feature Weldon flat



				2		3		4	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/16	1/8	3/16	1-1/2	**GE45EMS0622**	Price	**GE45EMS0623**	Price	**GE45EMS0624**	Price
3/32	1/8	3/8	1-1/2	**GE45EMS0932**	Price	**GE45EMS0933**	Price	**GE45EMS0934**	Price
1/8	1/8	1/2	1-1/2	**-**	-	**-**	-	**GE45EMS1254**	Price
3/16	3/16	5/8	2	**GE45EMS1872**	Price	**-**	-	**GE45EMS1874**	Price
1/4	1/4	3/4	2-1/2	**-**	-	**GE45EMS2503**	Price	**GE45EMS2504**	Price
5/16	5/16	13/16	2-1/2	**-**	-	**-**	-	**GE45EMS3124**	Price
3/8	3/8	7/8	2-1/2	**-**	-	**-**	-	**GE45EMS3754**	Price
1/2	1/2	1	3	**-**	-	**GE45EMS5003**	Price	**GE45EMS5004**	Price
5/8	5/8	1-1/4	3-1/2	**-**	-	**GE45EMS6253**	Price	**GE45EMS6254**	Price
3/4	3/4	1-1/2	4	**-**	-	**-**	-	**GE45EMS7504**	Price

MICRO 100 Metric N/C Generation End Mills

- Shank diameter tolerance: .0025mm to .0076mm
- Cutter diameter tolerance: +.025mm / -.000mm
- Sizes 10mm and over have Weldon Flats



				2 Flute		3 Flute		4 Flute	
Size	Shank Dia.	Flute Length	OAL	Order No.	Price	Order No.	Price	Order No.	Price
2mm	2mm	10mm	38mm	**GE45EMSM0202**	Price	**GE45EMSM0203**	Price	**GE45EMSM0204**	Price
3mm	3mm	15mm	38mm	**GE45EMSM0302**	Price	**-**	-	**GE45EMSM0304**	Price
4mm	4mm	18mm	50mm	**-**	-	**-**	-	**GE45EMSM0404**	Price

MICRO 100 Micrograin Carbide Metric Square End Mills – Standard Length

- Features a slightly increased flute length and overall length for greater versatility
- Shank tolerance: -.0025mm to -.0076mm
- Cutting diameter tolerances: **1mm - 3mm** +.000mm / -.014mm; **3.5mm - 6mm** +.000mm / -.018mm; **7mm - 10mm** +.000 -.022mm



				2 Flute		4 Flute	
Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price	Order No.	Price
1mm	4mm	4mm	50mm	**GE45AEMM0102**	Price	**GE45AEMM0104**	Price
1.5mm	4mm	4mm	50mm	**GE45AEMM0152**	Price	**GE45AEMM0154**	Price
2mm	4mm	5mm	50mm	**GE45AEMM0202**	Price	**GE45AEMM0204**	Price
2.5mm	4mm	6mm	50mm	**-**	-	**GE45AEMM0254**	Price
3mm	6mm	8mm	57mm	**GE45AEMM0302**	Price	**GE45AEMM0304**	Price
3.5mm	6mm	10mm	57mm	**GE45AEMM0352**	Price	**GE45AEMM0354**	Price
4mm	6mm	11mm	57mm	**GE45AEMM0402**	Price	**GE45AEMM0404**	Price
4.5mm	6mm	11mm	57mm	**-**	-	**GE45AEMM0454**	Price
5mm	6mm	16mm	57mm	**GE45AEMM0502**	Price	**GE45AEMM0504**	Price
5.5mm	6mm	16mm	57mm	**GE45AEMM0552**	Price	**GE45AEMM0554**	Price
6mm	6mm	16mm	57mm	**GE45AEMM0602**	Price	**GE45AEMM0604**	Price
7mm	8mm	22mm	63mm	**-**	-	**GE45AEMM0704**	Price
8mm	8mm	22mm	63mm	**GE45AEMM0802**	Price	**GE45AEMM0804**	Price
10mm	10mm	25mm	72mm	**GE45AEMM1002**	Price	**GE45AEMM1004**	Price
12mm	12mm	30mm	83mm	**GE45AEMM1202**	Price	**GE45AEMM1204**	Price
14mm	14mm	35mm	83mm	**-**	-	**GE45AEMM1404**	Price
16mm	16mm	35mm	92mm	**-**	-	**GE45AEMM1604**	Price
20mm	20mm	45mm	104mm	**-**	-	**GE45AEMM2004**	Price
25mm	25mm	50mm	127mm	**-**	-	**GE45AEMM2504**	Price

RAPIDKUT® 4 Flute Solid Carbide Single End Mills



Center Cutting

- Used for general purpose milling in most materials of medium hardness such as steel, brass, iron and non-ferrous materials
- Made from premium submicron grain carbide
- 30° Helix

				Uncoated		TiN		TiCN		AlTiN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/32	1/8	1/16	1-1/2	DD5012697	Price	DD5522697	Price	DD8042697	Price	DD8252697	Price
1/32	1/8	3/32	1-1/2	DD504002S	Price	DD5526896	Price	DD804002STCN	Price	DD8256896	Price
1/32	1/8	9/64	1-1/2	DD5017961	Price	DD5527961	Price	DD8047961	Price	DD8257961	Price
3/64	1/8	1/8	1-1/2	DD5016897	Price	DD5526897	Price	DD8046897	Price	DD8256897	Price
3/64	1/8	3/16	1-1/2	DD5017962	Price	DD5527962	Price	DD8047962	Price	DD8257962	Price
1/16	1/8	1/8	1-1/2	DD5012701	Price	DD5522701	Price	DD8042701	Price	DD8252701	Price
1/16	1/8	1/4	1-1/2	DD504004S	Price	DD554004ST	Price	DD804004STCN	Price	DD8256898	Price
1/16	1/8	3/8	1-1/2	DD5017861	Price	DD5527861	Price	DD8047861	Price	DD8257861	Price
5/64	1/8	1/8	1-1/2	DD5012703	Price	DD5522703	Price	DD8042703	Price	DD8252703	Price
5/64	1/8	1/4	1-1/2	DD504005S	Price	DD554005ST	Price	-	-	DD8256899	Price
5/64	1/8	1/2	1-1/2	DD5010775	Price	DD5520775	Price	DD8040775	Price	DD8250775	Price
3/32	1/8	3/16	1-1/2	DD5012705	Price	DD5522705	Price	DD8042705	Price	DD8252705	Price
3/32	1/8	3/8	1-1/2	DD504006S	Price	DD554006ST	Price	DD804006STCN	Price	DD8256900	Price
7/64	1/8	3/8	1-1/2	DD504007S	Price	DD554007ST	Price	-	-	DD8256901	Price
7/64	1/8	3/4	2	DD5010779	Price	DD5520779	Price	DD8040779	Price	DD8250779	Price
1/8	1/8	1/4	1-1/2	DD5017896	Price	DD5527896	Price	DD8047896	Price	DD8257896	Price
1/8	1/8	1/2	1-1/2	DD504008S	Price	DD554008ST	Price	DD804008STCN	Price	DD8256631	Price
1/8	1/8	5/8	2	DD5010125	Price	DD5520125	Price	DD8040125	Price	DD8250125	Price
1/8	1/8	3/4	3	DD5010127	Price	DD5520127	Price	DD8040127	Price	DD8250127	Price
1/8	1/8	1	3	DD504008SL	Price	DD554008SLT	Price	-	-	DD8250129	Price
9/64	3/16	9/16	2	DD504009S	Price	DD554009ST	Price	-	-	DD8257876	Price
5/32	3/16	5/16	1-1/2	DD5012707	Price	DD5522707	Price	DD8042707	Price	DD8252707	Price
5/32	3/16	9/16	2	DD504010S	Price	DD554010ST	Price	DD804010STCN	Price	DD8257877	Price
5/32	3/16	3/4	3	DD5011005	Price	DD5521005	Price	DD8041005	Price	DD8251005	Price
11/64	3/16	9/16	2	DD504011S	Price	DD554011ST	Price	-	-	DD8257878	Price
3/16	3/16	3/8	1-1/2	DD5017897	Price	DD5527897	Price	DD8047897	Price	DD8257897	Price
3/16	3/16	9/16	2	DD504012S	Price	DD554012ST	Price	DD804012STCN	Price	DD8256632	Price
3/16	3/16	1	3	DD5010131	Price	DD5520131	Price	DD8040131	Price	DD8250131	Price
3/16	3/16	1-1/8	3	DD504012SL	Price	DD554012SLT	Price	-	-	DD8250133	Price
13/64	1/4	5/8	2	DD504013S	Price	DD554013ST	Price	-	-	DD8257879	Price
7/32	1/4	1/2	2	DD5012709	Price	DD5522709	Price	DD8042709	Price	DD8252709	Price
7/32	1/4	5/8	2-1/2	DD504014S	Price	DD554014ST	Price	DD804014STCN	Price	DD8257880	Price
15/64	1/4	3/4	2-1/2	DD504015S	Price	DD554015ST	Price	-	-	DD8257881	Price
1/4	1/4	1/2	2	DD5017898	Price	DD5527898	Price	DD8047898	Price	DD8257898	Price
1/4	1/4	3/4	2-1/2	DD504016S	Price	DD554016ST	Price	DD804016STCN	Price	DD8256633	Price
1/4	1/4	1	3	DD5010139	Price	DD5520139	Price	DD8040139	Price	DD8250139	Price
1/4	1/4	1-1/2	4	DD504016SL	Price	DD554016SLT	Price	-	-	DD8250143	Price
17/64	5/16	3/4	2-1/2	DD504017S	Price	DD554017ST	Price	-	-	DD8257882	Price
9/32	5/16	3/4	2-1/2	DD504018S	Price	DD554018ST	Price	DD804018STCN	Price	DD8257883	Price
19/64	5/16	13/16	2-1/2	DD504019S	Price	DD554019ST	Price	-	-	DD8257884	Price
5/16	5/16	1/2	2	DD5017899	Price	DD5527899	Price	DD8047899	Price	DD8257899	Price
5/16	5/16	13/16	2-1/2	DD504020S	Price	DD554020ST	Price	DD804020STCN	Price	DD8256634	Price
5/16	5/16	1-1/8	3	DD5016075	Price	DD5526075	Price	-	-	-	-
5/16	5/16	1-5/8	4	DD504020SL	Price	DD554020SLT	Price	-	-	DD8250145	Price
11/32	3/8	7/8	2-1/2	DD5017886	Price	DD554022ST	Price	DD8047886	Price	DD8257886	Price
3/8	3/8	5/8	2	DD5017900	Price	DD5527900	Price	DD8047900	Price	DD8257900	Price
3/8	3/8	1	2-1/2	DD504024S	Price	DD554024ST	Price	DD804024STCN	Price	DD8256635	Price
3/8	3/8	2	4	DD504024SL	Price	DD554024SLT	Price	-	-	DD8250155	Price
3/8	3/8	3	6	DD504024SXL	Price	DD554024SXLT	Price	-	-	-	-
25/64	7/16	1	2-3/4	DD5010753	Price	DD5520753	Price	DD8040753	Price	DD8250753	Price
13/32	7/16	1	2-3/4	DD5017888	Price	DD5527888	Price	-	-	DD8257888	Price
7/16	7/16	1	2-3/4	DD504028S	Price	DD554028ST	Price	DD804028STCN	Price	DD8256637	Price
7/16	7/16	2	4	DD5010157	Price	DD5520157	Price	DD8040157	Price	DD8250157	Price
1/2	1/2	1	3	DD504032S	Price	DD554032ST	Price	DD804032STCN	Price	DD8256639	Price
1/2	1/2	5/8	2-1/2	DD5017902	Price	DD5527902	Price	DD8047902	Price	DD8257902	Price
1/2	1/2	1-1/2	4	DD5010785	Price	DD5520785	Price	DD8040785	Price	DD8250785	Price
1/2	1/2	2	4	DD5010161	Price	DD5520161	Price	DD8040161	Price	DD8250161	Price
1/2	1/2	3	6	DD504032SL	Price	DD554032SLT	Price	-	-	DD8250163	Price
9/16	9/16	1-1/4	3-1/2	DD504036S	Price	DD554036ST	Price	DD804036STCN	Price	-	-
5/8	5/8	3/4	3	DD5010795	Price	DD5520795	Price	DD8040795	Price	DD8250795	Price
5/8	5/8	1-1/4	3-1/2	DD504040S	Price	DD554040ST	Price	DD804040STCN	Price	DD8256641	Price
5/8	5/8	3	6	DD504040SL	Price	DD554040SLT	Price	-	-	-	-
11/16	3/4	1-1/2	4	DD504044S	Price	DD554044ST	Price	DD804044STCN	Price	DD8252713	Price
3/4	3/4	1	3	DD5016238	Price	DD5526238	Price	DD8046238	Price	DD8256238	Price
3/4	3/4	1-1/2	4	DD504048S	Price	DD554048ST	Price	DD804048STCN	Price	DD8256642	Price
3/4	3/4	2	6	DD5010167	Price	DD5520167	Price	DD8040167	Price	DD8250167	Price
3/4	3/4	3	6	DD504048SL	Price	DD554048SLT	Price	-	-	DD8250169	Price
3/4	3/4	4	7	DD5017736	Price	DD5527736	Price	DD8047736	Price	DD8257736	Price
7/8	7/8	1-1/2	4	DD504056S	Price	DD554056ST	Price	DD804056STCN	Price	DD8251903	Price
1	1	1-1/2	4	DD504100S	Price	DD554100ST	Price	DD804100STCN	Price	DD8256644	Price
1	1	3	6	DD504100SL	Price	DD554100SLT	Price	-	-	DD8251275	Price
1	1	4	7	DD5016315	Price	DD5526315	Price	DD8046315	Price	DD8256315	Price

SOLID MORSE MASTER Solid Carbide 4 Flute Single End Mills

30° Helix • Center Cutting

- These 4-flute end mills with a greater core thickness offer increased tool strength and reduced tool deflection
- 4-Flute mills also reduce chip load per tooth for the milling of tougher materials, greater wear resistance and improved surface finish
- Center cutting end allows for plunge cutting into solid material
- **Tolerances:**
  Sizes to 1/4" +.000 - .002"
  9/32 to 1" +.000 - .003"



				Uncoated		TiN		TiCN		TiAlN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/32	1/8	1/16	1-1/2	**MT3257087**	Price	**-**	-	**-**	-	**MT3292862**	Price
3/64	1/8	3/32	1-1/2	**MT3257088**	Price	**-**	-	**-**	-	**MT3292863**	Price
1/16	1/8	1/8	1-1/2	**MT3257040**	Price	**-**	-	**-**	-	**MT3292815**	Price
1/16	1/8	3/16	1-1/2	**MT3257904**	Price	**MT3290702**	Price	**MT3290739**	Price	**MT3290776**	Price
3/32	1/8	3/16	1-1/2	**MT3257041**	Price	**-**	-	**-**	-	**MT3292816**	Price
3/32	1/8	5/16	1-1/2	**MT3257906**	Price	**MT3290704**	Price	**MT3290741**	Price	**MT3290778**	Price
1/8	1/8	1/4	1-1/2	**MT3257042**	Price	**-**	-	**-**	-	**MT3292817**	Price
1/8	1/8	1/2	1-1/2	**MT3257908**	Price	**MT3290706**	Price	**MT3290743**	Price	**MT3290780**	Price
1/8	1/8	3/4	2-1/4	**MT3258138**	Price	**MT3290820**	Price	**MT3290830**	Price	**MT3290840**	Price
1/8	1/8	1	3	**MT3258508**	Price	**MT3290860**	Price	**MT3290870**	Price	**MT3290880**	Price
5/32	3/16	5/16	2	**MT3257043**	Price	**-**	-	**-**	-	**MT3292818**	Price
5/32	3/16	9/16	2	**MT3257910**	Price	**MT3290708**	Price	**MT3290745**	Price	**MT3290782**	Price
3/16	3/16	3/8	2	**MT3257044**	Price	**-**	-	**-**	-	**MT3292819**	Price
3/16	3/16	5/8	2	**MT3257912**	Price	**MT3290710**	Price	**MT3290747**	Price	**MT3290784**	Price
3/16	3/16	3/4	2-1/2	**MT3258139**	Price	**MT3290821**	Price	**MT3290831**	Price	**MT3290841**	Price
3/16	3/16	1-1/8	3	**MT3258512**	Price	**MT3290861**	Price	**MT3290871**	Price	**MT3290881**	Price
7/32	1/4	7/16	2	**MT3257045**	Price	**-**	-	**-**	-	**MT3292820**	Price
7/32	1/4	5/8	2-1/2	**MT3257914**	Price	**MT3290712**	Price	**MT3290749**	Price	**MT3290786**	Price
1/4	1/4	1/2	2	**MT3257046**	Price	**-**	-	**-**	-	**MT3292821**	Price
1/4	1/4	3/4	2-1/2	**MT3257916**	Price	**MT3290714**	Price	**MT3290751**	Price	**MT3290788**	Price
1/4	1/4	1-1/8	3	**MT3258141**	Price	**MT3290822**	Price	**MT3290832**	Price	**MT3290842**	Price
1/4	1/4	1-1/2	4	**MT3258516**	Price	**MT3290862**	Price	**MT3290872**	Price	**MT3290882**	Price
3/8	3/8	1-3/4	4	**MT3258524**	Price	**MT3290864**	Price	**MT3290874**	Price	**MT3290884**	Price
9/32	5/16	3/4	2-1/2	**MT3257918**	Price	**MT3290716**	Price	**MT3290753**	Price	**MT3290790**	Price
5/16	5/16	1/2	2	**MT3257047**	Price	**-**	-	**-**	-	**MT3292822**	Price
5/16	5/16	13/16	2-1/2	**MT3257920**	Price	**MT3290718**	Price	**MT3290755**	Price	**MT3290792**	Price
5/16	5/16	1-1/8	3	**MT3258150**	Price	**MT3290823**	Price	**MT3290833**	Price	**MT3290843**	Price
5/16	5/16	1-5/8	4	**MT3258520**	Price	**MT3290863**	Price	**MT3290873**	Price	**MT3290883**	Price
3/8	3/8	5/8	2	**MT3257048**	Price	**-**	-	**-**	-	**MT3292823**	Price
3/8	3/8	7/8	2-1/2	**MT3257924**	Price	**MT3290722**	Price	**MT3290759**	Price	**MT3290796**	Price
3/8	3/8	1-1/8	3	**MT3258154**	Price	**MT3290824**	Price	**MT3290834**	Price	**MT3290844**	Price
7/16	7/16	5/8	2-1/2	**MT3257049**	Price	**-**	-	**-**	-	**MT3292824**	Price
7/16	7/16	1	2-3/4	**MT3257928**	Price	**MT3290726**	Price	**MT3290763**	Price	**MT3290800**	Price
7/16	7/16	2	4	**MT3258158**	Price	**MT3290825**	Price	**MT3290835**	Price	**MT3290845**	Price
7/16	7/16	3	6	**MT3258528**	Price	**MT3290865**	Price	**MT3290875**	Price	**MT3290885**	Price
1/2	1/2	5/8	2-1/2	**MT3257050**	Price	**-**	-	**-**	-	**MT3292825**	Price
1/2	1/2	1	3	**MT3257932**	Price	**MT3290730**	Price	**MT3290767**	Price	**MT3290804**	Price
1/2	1/2	2	4	**MT3258162**	Price	**MT3290826**	Price	**MT3290836**	Price	**MT3290846**	Price
1/2	1/2	3	6	**MT3258532**	Price	**MT3290866**	Price	**MT3290876**	Price	**MT3290886**	Price
9/16	9/16	1-1/2	3-1/2	**MT3257936**	Price	**MT3290731**	Price	**MT3290768**	Price	**MT3290805**	Price
5/8	5/8	3/4	3	**MT3257051**	Price	**-**	-	**-**	-	**MT3292826**	Price
5/8	5/8	1-1/4	3-1/2	**MT3257940**	Price	**MT3290732**	Price	**MT3290769**	Price	**MT3290806**	Price
5/8	5/8	2-1/4	5	**MT3258170**	Price	**MT3290827**	Price	**MT3290837**	Price	**MT3290847**	Price
5/8	5/8	3	6	**MT3258540**	Price	**MT3290867**	Price	**MT3290877**	Price	**MT3290887**	Price
11/16	3/4	1-1/2	4	**MT3257944**	Price	**MT3290733**	Price	**MT3290770**	Price	**MT3290807**	Price
3/4	3/4	1	3	**MT3257052**	Price	**-**	-	**-**	-	**MT3292827**	Price
3/4	3/4	1-1/2	4	**MT3257948**	Price	**MT3290734**	Price	**MT3290771**	Price	**MT3290808**	Price
3/4	3/4	2-1/4	5	**MT3258178**	Price	**MT3290828**	Price	**MT3290838**	Price	**MT3290848**	Price
3/4	3/4	3	6	**MT3258548**	Price	**MT3290868**	Price	**MT3290878**	Price	**MT3290888**	Price
7/8	7/8	1-1/2	4	**MT3257956**	Price	**MT3290735**	Price	**MT3290772**	Price	**MT3290809**	Price
1	1	1-1/2	4	**MT3257964**	Price	**MT3290736**	Price	**MT3290773**	Price	**MT3290810**	Price
1	1	2-1/4	5	**MT3258194**	Price	**MT3290829**	Price	**MT3290839**	Price	**MT3290849**	Price
1	1	3	6	**MT3258564**	Price	**MT3290869**	Price	**MT3290879**	Price	**MT3290889**	Price

truCORE® E14 Solid Carbide 4 Flute Square End Mills



- Square end for general machining and finishing
- Fine grain carbide for greater toughness, wear resistance, and higher transverse rupture strength
- Multiple coatings available for all of your application needs
- Round or Weldon style shank
- 30° Helix

MADE IN THE USA

P Good in Carbon and Tool Steels
K Good in Cast Iron
M Good in Stainless Steels

					AlTiN		Uncoated		TiCN	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Shank Type	Order No.	Price	Order No.	Price	Order No.	Price
1/32	1/8	3/32	1-1/2	Round Shank	DD4099345	Price	DD4030701	Price	DD4034402	Price
3/64	1/8	9/64	1-1/2	Round Shank	DD4030537	Price	DD4030703	Price	DD4034403	Price
1/16	1/8	1/8	1-1/2	Round Shank	DD4030529	Price	-	-	-	-
1/16	1/8	3/16	1-1/2	Round Shank	DD4030800	Price	DD4030705	Price	DD4034404	Price
1/16	1/8	1/4	1-1/2	Round Shank	DD4090695	Price	-	-	-	-
5/64	1/8	1/4	1-1/2	Round Shank	DD4030506	Price	DD4030707	Price	-	-
3/32	1/8	3/16	1-1/2	Round Shank	DD4031545	Price	-	-	-	-
3/32	1/8	3/8	1-1/2	Round Shank	DD4030531	Price	DD4030709	Price	DD4034406	Price
7/64	1/8	3/8	1-1/2	Round Shank	DD4030458	Price	DD4030711	Price	-	-
1/8	1/8	1/4	1-1/2	Round Shank	DD4097871	Price	DD4031507	Price	DD4031532	Price
1/8	1/8	1/2	1-1/2	Round Shank	DD4030521	Price	DD4030713	Price	DD4034408	Price
1/8	1/8	3/4	2-1/4	Round Shank	DD4030417	Price	DD4037708	Price	DD4037710	Price
1/8	1/8	1	3	Round Shank	DD4097847	Price	DD4034108	Price	DD4034110	Price
9/64	3/16	9/16	2	Round Shank	DD4030500	Price	-	-	-	-
5/32	3/16	9/16	2	Round Shank	DD4030501	Price	DD4030717	Price	DD4034410	Price
3/16	3/16	3/8	2	Round Shank	DD4031548	Price	DD4031511	Price	DD4031534	Price
3/16	3/16	5/8	2	Round Shank	DD4030520	Price	DD4030721	Price	DD4034412	Price
3/16	3/16	3/4	2-1/2	Round Shank	DD4037793	Price	DD4037712	Price	-	-
3/16	3/16	1-1/8	3	Round Shank	DD4034115	Price	DD4034112	Price	DD4034114	Price
7/32	1/4	5/8	2-1/2	Round Shank	DD4030546	Price	DD4030725	Price	-	-
1/4	1/4	1/2	2	Round Shank	DD4031595	Price	DD4031515	Price	DD4031536	Price
1/4	1/4	3/4	2-1/2	Round Shank	DD4098955	Price	DD4030729	Price	DD4034416	Price
1/4	1/4	1-1/8	3	Round Shank	DD4099336	Price	DD4037716	Price	DD4037718	Price
1/4	1/4	1-1/2	4	Round Shank	DD4098978	Price	DD4034116	Price	DD4034118	Price
1/4	1/4	1-1/2	6	Round Shank	DD4039772	Price	-	-	-	-
9/32	5/16	3/4	2-1/2	Round Shank	DD4096156	Price	-	-	-	-
5/16	5/16	1/2	2	Round Shank	DD4030534	Price	-	-	-	-
5/16	5/16	13/16	2-1/2	Round Shank	DD4030898	Price	DD4030737	Price	DD4034420	Price
5/16	5/16	1-1/8	3	Round Shank	DD4030461	Price	DD4037720	Price	-	-
5/16	5/16	1-5/8	4	Round Shank	DD4034123	Price	DD4034120	Price	-	-
3/8	3/8	5/8	2	Round Shank	DD4031549	Price	DD4031519	Price	-	-
3/8	3/8	1	2-1/2	Round Shank	DD4098244	Price	DD4030745	Price	DD4034424	Price
3/8	3/8	1	2-1/2	Weldon Shank	DD4039790	Price	DD4039745	Price	-	-
3/8	3/8	1-1/8	3	Round Shank	DD4037727	Price	DD4037724	Price	DD4037726	Price
3/8	3/8	1-1/8	3	Weldon Shank	DD4039168	Price	-	-	-	-
3/8	3/8	1-1/2	6	Round Shank	DD4097850	Price	-	-	-	-
3/8	3/8	1-3/4	4	Round Shank	DD4034136	Price	DD4034124	Price	DD4034126	Price
7/16	7/16	1	2-3/4	Round Shank	DD4031040	Price	-	-	DD4034430	Price
7/16	7/16	2	4	Round Shank	DD4037731	Price	-	-	-	-
1/2	1/2	5/8	2-1/2	Round Shank	DD4031546	Price	DD4031523	Price	-	-
1/2	1/2	1	3	Round Shank	DD4098245	Price	DD4030761	Price	DD4034432	Price
1/2	1/2	1-1/2	6	Round Shank	DD4031150	Price	-	-	-	-
1/2	1/2	2	4	Round Shank	DD4037735	Price	DD4037732	Price	DD4037734	Price
1/2	1/2	2	4	Weldon Shank	DD4039169	Price	-	-	-	-
1/2	1/2	3	6	Round Shank	DD4034135	Price	DD4034132	Price	DD4034134	Price
9/16	9/16	1-1/4	3-1/2	Round Shank	DD4030996	Price	-	-	-	-
5/8	5/8	1-1/4	3-1/2	Round Shank	DD4030555	Price	DD4030765	Price	DD4034440	Price
5/8	5/8	2-1/4	5	Round Shank	DD4030561	Price	DD4037740	Price	DD4037742	Price
5/8	5/8	2-1/4	5	Weldon Shank	DD4039170	Price	-	-	-	-
5/8	5/8	3	6	Round Shank	DD4034143	Price	DD4034140	Price	DD4034142	Price
5/8	5/8	3	6	Weldon Shank	DD4039177	Price	-	-	-	-
11/16	3/4	1-1/2	4	Round Shank	DD4031032	Price	-	-	-	-
3/4	3/4	1-1/2	4	Round Shank	DD4098956	Price	DD4030769	Price	DD4034448	Price
3/4	3/4	2-1/4	5	Round Shank	DD4037751	Price	DD4037748	Price	DD4037750	Price
3/4	3/4	2-1/4	5	Weldon Shank	DD4039171	Price	-	-	-	-
3/4	3/4	3	6	Round Shank	DD4034151	Price	DD4034148	Price	DD4034150	Price
3/4	3/4	3	6	Weldon Shank	DD4039178	Price	-	-	-	-
7/8	7/8	1-1/2	4	Round Shank	DD4030523	Price	-	-	-	-
1	1	1-1/2	4	Round Shank	DD4098957	Price	-	-	DD4034464	Price
1	1	2-1/4	5	Round Shank	DD4037767	Price	-	-	DD4037766	Price
1	1	2-1/4	5	Weldon Shank	DD4039172	Price	-	-	-	-
1	1	3	6	Round Shank	DD4034167	Price	-	-	-	-
1	1	3	6	Weldon Shank	DD4039365	Price	-	-	-	-

4 Flute Solid Carbide General Purpose End Mills

- Standard micro grain carbide
- TiAlN coated



				Bright		TiAlN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/32	1/8	1/8	1-1/2	**TP37404031200**	Price	**TP37404031211**	Price
1/16	1/8	1/8	1-1/2	**TP37414062500**	Price	**TP37414062511**	Price
1/16	1/8	3/16	1-1/2	**TP37404062500**	Price	**TP37404062511**	Price
3/32	1/8	3/16	1-1/2	**TP37414093800**	Price	-	-
3/32	1/8	5/16	1-1/2	**TP37404093800**	Price	**TP37404093811**	Price
1/8	1/8	1/4	1-1/2	**TP37414125000**	Price	**TP37414125011**	Price
1/8	1/8	1/2	1-1/2	**TP37404125000**	Price	**TP37404125011**	Price
1/8	1/8	3/4	2-1/4	**TP37464125000**	Price	**TP37464125011**	Price
1/8	1/8	1	3	**TP37484125000**	Price	**TP37484125011**	Price
5/32	3/16	5/16	2	**TP37414156200**	Price	-	-
5/32	3/16	9/16	2	**TP37404156200**	Price	**TP37404156211**	Price
3/16	3/16	5/8	2	**TP37404187500**	Price	**TP37404187511**	Price
3/16	3/16	3/4	2-1/4	**TP37464187500**	Price	-	-
3/16	3/16	1-1/8	3	**TP37484187500**	Price	-	-
7/32	1/4	5/8	2-1/2	**TP37404218800**	Price	**TP37404218811**	Price
1/4	1/4	1/2	2	**TP37414250000**	Price	-	-
1/4	1/4	3/4	2-1/2	**TP37404250000**	Price	**TP37404250011**	Price
1/4	1/4	1-1/8	3	**TP37464250000**	Price	-	-
1/4	1/4	1-1/2	4	**TP37484250000**	Price	**TP37484250011**	Price
9/32	5/16	3/4	2-1/2	**TP37404281200**	Price	**TP37404281211**	Price
5/16	5/16	1/2	2	**TP37414312500**	Price	**TP37414312511**	Price
5/16	5/16	13/16	2-1/2	**TP37404312500**	Price	**TP37404312511**	Price
5/16	5/16	1-1/8	3	**TP37464312500**	Price	-	-
5/16	5/16	1-5/8	4	**TP37484312500**	Price	-	-
3/8	3/8	5/8	2	**TP37414375000**	Price	**TP37414375011**	Price
3/8	3/8	1	2-1/2	**TP37404375000**	Price	**TP37404375011**	Price
3/8	3/8	1-1/8	3	**TP37464375000**	Price	-	-
3/8	3/8	1-3/4	4	**TP37484375000**	Price	-	-
7/16	7/16	5/8	2-1/2	**TP37414437500**	Price	-	-
7/16	7/16	1	2-3/4	**TP37404437500**	Price	**TP37404437511**	Price
7/16	7/16	2	4	**TP37464437500**	Price	-	-
7/16	7/16	3	6	**TP37484437500**	Price	-	-
1/2	1/2	5/8	2-1/2	**TP37414500000**	Price	**TP37414500011**	Price
1/2	1/2	1	3	**TP37404500000**	Price	**TP37404500011**	Price
1/2	1/2	2	4	**TP37464500000**	Price	-	-
1/2	1/2	3	6	**TP37484500000**	Price	-	-
5/8	5/8	3/4	3	**TP37414625000**	Price	**TP37414625011**	Price
5/8	5/8	1-1/4	3-1/2	**TP37404625000**	Price	**TP37404625011**	Price
5/8	5/8	2-1/4	5	**TP37464625000**	Price	**TP37464625011**	Price
5/8	5/8	3	6	**TP37484625000**	Price	**TP37484625011**	Price
3/4	3/4	1	3	**TP37414750000**	Price	**TP37414750011**	Price
3/4	3/4	3	6	**TP37484750000**	Price	**TP37484750011**	Price
3/4	3/4	1-1/2	4	**TP37404750000**	Price	**TP37404750011**	Price
3/4	3/4	2-1/4	5	**TP37464750000**	Price	-	-
7/8	7/8	1-1/2	4	**TP37404875000**	Price	**TP37404875011**	Price
1	1	1-1/2	4	**TP37404100000**	Price	**TP37404100011**	Price
1	1	2-1/4	5	**TP37464100000**	Price	**TP37464100011**	Price
1	1	3	6	**TP37484100000**	Price	-	-

RAPIDKUT® 4 Flute Solid Carbide Long Reach End Mills



Reduced Neck • Square End

- Neck diameter reduced for clearance
- Neck reduction .020" - all sizes
- The solid neck area provides reach with maximum rigidity
- Used to mill deep pockets or slots where long flute lengths are not needed
- Made from premium submicron grain carbide
- Tolerances +.000/-.002"

					Uncoated		TiN		TiCN		AlTiN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	Neck Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	5/8	3/8	2	**DD5016731**	Price	**DD5526731**	Price	**DD8046731**	Price	**DD8256731**	Price
3/16	3/16	1	1-5/8	4	**DD5016733**	Price	**DD5526733**	Price	**DD8046733**	Price	**DD8256733**	Price
1/4	1/4	1-1/2	2-3/4	6	**DD5016735**	Price	**DD5526735**	Price	**DD8046735**	Price	**DD8256735**	Price
5/16	5/16	1-1/2	2-13/16	6	**DD5016737**	Price	**DD5526737**	Price	**DD8046737**	Price	**DD8256737**	Price
3/8	3/8	1-1/2	2-7/8	6	**DD5016739**	Price	**DD5526739**	Price	**DD8046739**	Price	**DD8256739**	Price
7/16	7/16	1-1/2	2-3/4	6	**DD5016741**	Price	**DD5526741**	Price	**DD8046741**	Price	**DD8256741**	Price
1/2	1/2	1-1/2	2-1/2	6	**DD5016743**	Price	**DD5526743**	Price	**DD8046743**	Price	**DD8256743**	Price
9/16	9/16	2	1-3/4	6	**DD5016744**	Price	**DD5526744**	Price	**DD8046744**	Price	**DD8256744**	Price
5/8	5/8	2	1-3/4	6	**DD5016746**	Price	**DD5526746**	Price	**DD8046746**	Price	**DD8256746**	Price
3/4	3/4	2	1-1/2	6	**DD5016747**	Price	**DD5526747**	Price	**DD8046747**	Price	**DD8256747**	Price
1	1	2	1-1/2	6	**DD5016748**	Price	**DD5526748**	Price	**DD8046748**	Price	**DD8256748**	Price

Tuff Cut® GP 4 Flute Center Cutting Carbide End Mills

Standard Length · 30° Helix

- Designed for aggressive milling of most materials
- Corner radius styles available
- M.A. Ford List 111



				Uncoated		ALtima	
Size (in.)	Shank Dia. (in.)	Flute Length	OAL (in.)	Order No.	Price	Order No.	Price
1/64	1/8	1/32	1-1/2	**DD1511011**	Price	-	-
1/32	1/8	5/64	1-1/2	**DD1511027**	Price	-	-
3/64	1/8	7/64	1-1/2	**DD1511045**	Price	**DD1511104680A**	Price
1/16	1/8	3/16	1-1/2	**DD1511063**	Price	-	-
5/64	1/8	3/16	1-1/2	**DD1511079**	Price	**DD1511107810A**	Price
7/64	1/8	3/8	1-1/2	**DD1511101**	Price	-	-
1/8	1/8	1/2	1-1/2	**DD1511108**	Price	-	-
1/8	1/8	3/8	1-1/2	**DD1511105**	Price	**DD1511005**	Price
9/64	3/16	1/2	2	**DD1511112**	Price	-	-
5/32	3/16	1/2	2	**DD1511113**	Price	**DD1511115620A**	Price
11/64	3/16	5/8	2	**DD1511116**	Price	-	-
3/16	3/16	5/8	2	**DD1511119**	Price	**DD1511009**	Price
13/64	1/4	5/8	2-1/2	**DD1511122**	Price	-	-
7/32	1/4	5/8	2-1/2	**DD1511125**	Price	-	-

				Uncoated		ALtima	
Size (in.)	Shank Dia. (in.)	Flute Length	OAL (in.)	Order No.	Price	Order No.	Price
15/64	1/4	3/4	2-1/2	**DD1511126**	Price	-	-
1/4	1/4	3/4	2-1/2	**DD1511129**	Price	**DD1511017**	Price
9/32	5/16	3/4	2-1/2	**DD1511133**	Price	-	-
5/16	5/16	13/16	2-1/2	**DD1511135**	Price	**DD1511019**	Price
3/8	3/8	1	2-1/2	**DD1511141**	Price	**DD1511023**	Price
7/16	7/16	1	2-3/4	**DD1511147**	Price	**DD1511029**	Price
1/2	1/2	1	3	**DD1511151**	Price	**DD1511033**	Price
9/16	9/16	1-1/8	3-1/2	**DD1511155**	Price	-	-
5/8	5/8	1-1/4	3-1/2	-	-	**DD1511037**	Price
3/4	3/4	1-1/2	4	**DD1511163**	Price	**DD1511041**	Price
7/8	7/8	1-1/2	4	**DD1511169**	Price	-	-
1	1	1-1/2	4	**DD1511097**	Price	**DD1011001**	Price
1-1/4	1-1/4	1-9/16	4-3/8	**DD1511107**	Price	-	-

truCORE® E14 Solid Carbide 4 Flute Corner Radius End Mills

- Wide range of corner radii available for machining in a wide variety of materials
- Fine grain carbide for greater toughness, wear resistance, and higher transverse rupture strength
- Precision ground flat (Weldon style) available for improved rigidity
- 30° Helix, AlTiN coated



P Good in Carbon and Tool Steels M Good in Stainless Steels K Good in Cast Iron

					.015		.020		.030		.045		.060	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Shank Type	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	1/2	1-1/2	Round Shank	**DD4097662**	Price	**DD4090523**	Price	-	-	-	-	-	-
3/16	3/16	5/8	2	Round Shank	**DD4039694**	Price	**DD4039695**	Price	**DD4039601**	Price	-	-	-	-
1/4	1/4	3/4	2-1/2	Round Shank	**DD4030519**	Price	**DD4039513**	Price	**DD4039604**	Price	**DD4039696**	Price	-	-
5/16	5/16	13/16	2-1/2	Round Shank	**DD4039697**	Price	**DD4039698**	Price	**DD4039700**	Price	**DD4039701**	Price	-	-
3/8	3/8	1	2-1/2	Round Shank	**DD4037443**	Price	**DD4037444**	Price	**DD4037445**	Price	**DD4037446**	Price	**DD4037447**	Price
1/2	1/2	1	3	Round Shank	**DD4037449**	Price	**DD4037450**	Price	**DD4037451**	Price	**DD4037452**	Price	**DD4037453**	Price

MICRO 100 4 Flute Solid Carbide End Mills

Corner Radius • Center Cutting

- Ideally suited for heavier cuts in medium and hard materials
- 30° Helix



					AlTiN		Uncoated	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Corner Radius (in.)	Order No.	Price	Order No.	Price
1/32	1/8	5/64	1-1/2	.005	**GE45GEC0314005X**	Price	**GE45GEC0314005**	Price
1/16	1/8	3/16	1-1/2	.005	**GE45GEC0624005X**	Price	**GE45GEC0624005**	Price
1/16	1/8	3/16	1-1/2	.010	**GE45GEC0624010X**	Price	**GE45GEC0624010**	Price
3/32	1/8	3/8	1-1/2	.005	**GE45GEC0934005X**	Price	**GE45GEC0934005**	Price
3/32	1/8	3/8	1-1/2	.010	**GE45GEC0934010X**	Price	**GE45GEC0934010**	Price
1/8	1/8	1/2	1-1/2	.010	**GE45GEC1254010X**	Price	**GE45GEC1254010**	Price
1/8	1/8	1/2	1-1/2	.020	**GE45GEC1254020X**	Price	**GE45GEC1254020**	Price
3/16	3/16	5/8	2	.010	**GE45GEC1874010X**	Price	**GE45GEC1874010**	Price
3/16	3/16	5/8	2	.030	**GE45GEC1874030X**	Price	**GE45GEC1874030**	Price
1/4	1/4	3/4	2-1/2	.010	**GE45GEC2504010X**	Price	**GE45GEC2504010**	Price
1/4	1/4	3/4	2-1/2	.020	**GE45GEC2504020X**	Price	**GE45GEC2504020**	Price
1/4	1/4	3/4	2-1/2	.030	**GE45GEC2504030X**	Price	**GE45GEC2504030**	Price
5/16	5/16	13/16	2-1/2	.010	**GE45GEC3124010X**	Price	**GE45GEC3124010**	Price
3/8	3/8	7/8	2-1/2	.010	**GE45GEC3754010X**	Price	**GE45GEC3754010**	Price
3/8	3/8	7/8	2-1/2	.020	**GE45GEC3754020X**	Price	**GE45GEC3754020**	Price
3/8	3/8	7/8	2-1/2	.030	**GE45GEC3754030X**	Price	**GE45GEC3754030**	Price

RAPIDKUT® 4 Flute Corner Radius Carbide End Mills



Center Cutting

- 30° Helix
- Used when radius is permissible
- Radius gives added strength to corner
- Made from premium submicron grain carbide
- Cutting tool diameter tolerance: +.000/-.002”

					Uncoated		TiN		TiCN		AlTiN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
3/32	1/8	3/8	1-1/2	.010	**DD8311061**	Price	**DD8321061**	Price	**DD8341061**	Price	**DD8351061**	Price
3/32	1/8	3/8	1-1/2	.015	**DD8311063**	Price	**DD8321063**	Price	**DD8341063**	Price	**DD8351063**	Price
3/32	1/8	3/8	1-1/2	.020	**DD8311065**	Price	**DD8321065**	Price	**DD8341065**	Price	**DD8351065**	Price
1/8	1/8	1/4	1-1/2	.010	**DD8316904**	Price	**DD8326904**	Price	**DD8346904**	Price	**DD8356904**	Price
1/8	1/8	1/2	1-1/2	.010	**-**	-	**DD8321067**	Price	**DD8341067**	Price	**DD8351067**	Price
1/8	1/8	1/2	1-1/2	.015	**DD8315422**	Price	**DD8325422**	Price	**DD8345422**	Price	**DD8355422**	Price
1/8	1/8	1/2	1-1/2	.020	**DD8311069**	Price	**DD8321069**	Price	**DD8341069**	Price	**-**	-
1/8	1/8	1/2	1-1/2	.030	**-**	-	**DD8321071**	Price	**DD8341071**	Price	**-**	-
3/16	3/16	5/8	2	.010	**-**	-	**DD8321073**	Price	**DD8341073**	Price	**DD8351073**	Price
3/16	3/16	5/8	2	.015	**-**	-	**DD8321075**	Price	**DD8341075**	Price	**-**	-
3/16	3/16	5/8	2	.020	**-**	-	**DD8325424**	Price	**DD8345424**	Price	**-**	-
3/16	3/16	5/8	2	.030	**-**	-	**DD8325426**	Price	**DD8345426**	Price	**-**	-
1/4	1/4	3/4	2-1/2	.015	**DD8315360**	Price	**DD8325360**	Price	**DD8345360**	Price	**DD8355360**	Price
1/4	1/4	3/4	2-1/2	.020	**-**	-	**DD8325362**	Price	**DD8345362**	Price	**-**	-
1/4	1/4	3/4	2-1/2	.030	**DD8315364**	Price	**DD8325364**	Price	**DD8345364**	Price	**-**	-
1/4	1/4	3/4	2-1/2	.045	**DD8315366**	Price	**DD8325366**	Price	**DD8345366**	Price	**DD8355366**	Price
5/16	5/16	13/16	2-1/2	.015	**DD8311077**	Price	**DD8321077**	Price	**DD8341077**	Price	**DD8351077**	Price
5/16	5/16	13/16	2-1/2	.020	**DD8315368**	Price	**DD8325368**	Price	**DD8345368**	Price	**DD8355368**	Price
5/16	5/16	13/16	2-1/2	.030	**DD8315370**	Price	**DD8325370**	Price	**DD8345370**	Price	**DD8355370**	Price
5/16	5/16	13/16	2-1/2	.045	**DD8315372**	Price	**DD8325372**	Price	**DD8345372**	Price	**DD8355372**	Price
5/16	5/16	13/16	2-1/2	.060	**DD8311079**	Price	**DD8321079**	Price	**DD8341079**	Price	**DD8351079**	Price
3/8	3/8	1	2-1/2	.015	**DD8311081**	Price	**DD8321081**	Price	**DD8341081**	Price	**DD8351081**	Price
3/8	3/8	1	2-1/2	.020	**DD8315374**	Price	**DD8325374**	Price	**DD8345374**	Price	**DD8355374**	Price
3/8	3/8	1	2-1/2	.030	**-**	-	**DD8325376**	Price	**DD8345376**	Price	**DD8355376**	Price
3/8	3/8	1	2-1/2	.045	**DD8315378**	Price	**DD8325378**	Price	**DD8345378**	Price	**DD8355378**	Price
3/8	3/8	1	2-1/2	.060	**DD8311083**	Price	**DD8321083**	Price	**DD8341083**	Price	**DD8351083**	Price
1/2	1/2	1	3	.015	**DD8311085**	Price	**DD8321085**	Price	**DD8341085**	Price	**DD8351085**	Price
1/2	1/2	1	3	.020	**DD8315380**	Price	**DD8325380**	Price	**DD8345380**	Price	**DD8355380**	Price
1/2	1/2	1	3	.030	**DD8315382**	Price	**DD8325382**	Price	**DD8345382**	Price	**DD8355382**	Price
1/2	1/2	1	3	.045	**DD8315384**	Price	**DD8325384**	Price	**DD8345384**	Price	**DD8355384**	Price
1/2	1/2	1	3	.060	**DD8315386**	Price	**DD8325386**	Price	**DD8345386**	Price	**DD8355386**	Price
1/2	1/2	1	3	.090	**DD8311087**	Price	**DD8321087**	Price	**DD8341087**	Price	**DD8351087**	Price
1/2	1/2	1	3	.125	**DD8311089**	Price	**DD8321089**	Price	**DD8341089**	Price	**DD8351089**	Price
5/8	5/8	1-1/4	3-1/2	.015	**DD8311091**	Price	**DD8321091**	Price	**DD8341091**	Price	**DD8351091**	Price
5/8	5/8	1-1/4	3-1/2	.020	**DD8315388**	Price	**DD8325388**	Price	**DD8345388**	Price	**DD8355388**	Price
5/8	5/8	1-1/4	3-1/2	.030	**DD8315390**	Price	**DD8325390**	Price	**DD8345390**	Price	**DD8355390**	Price
5/8	5/8	1-1/4	3-1/2	.045	**DD8315392**	Price	**DD8325392**	Price	**DD8345392**	Price	**DD8355392**	Price
5/8	5/8	1-1/4	3-1/2	.060	**DD8315394**	Price	**DD8325394**	Price	**DD8345394**	Price	**DD8355394**	Price
5/8	5/8	1-1/4	3-1/2	.090	**DD8315396**	Price	**DD8325396**	Price	**DD8345396**	Price	**DD8355396**	Price
3/4	3/4	1-1/2	4	.015	**DD8311093**	Price	**DD8321093**	Price	**DD8341093**	Price	**DD8351093**	Price
3/4	3/4	1-1/2	4	.020	**DD8315398**	Price	**DD8325398**	Price	**DD8345398**	Price	**DD8355398**	Price
3/4	3/4	1-1/2	4	.030	**DD8315400**	Price	**DD8325400**	Price	**DD8345400**	Price	**DD8355400**	Price
3/4	3/4	1-1/2	4	.045	**DD8315402**	Price	**DD8325402**	Price	**DD8345402**	Price	**DD8355402**	Price
3/4	3/4	1-1/2	4	.060	**DD8315404**	Price	**DD8325404**	Price	**DD8345404**	Price	**DD8355404**	Price
3/4	3/4	1-1/2	4	.090	**DD8315406**	Price	**DD8325406**	Price	**DD8345406**	Price	**DD8355406**	Price
3/4	3/4	1-1/2	4	.125	**DD8315408**	Price	**DD8325408**	Price	**DD8345408**	Price	**DD8355408**	Price
1	1	1-1/2	4	.015	**DD8311095**	Price	**DD8321095**	Price	**DD8341095**	Price	**DD8351095**	Price
1	1	1-1/2	4	.020	**DD8315410**	Price	**DD8325410**	Price	**DD8345410**	Price	**DD8355410**	Price
1	1	1-1/2	4	.030	**DD8315412**	Price	**DD8325412**	Price	**DD8345412**	Price	**DD8355412**	Price
1	1	1-1/2	4	.045	**DD8315414**	Price	**DD8325414**	Price	**DD8345414**	Price	**DD8355414**	Price
1	1	1-1/2	4	.060	**DD8315416**	Price	**DD8325416**	Price	**DD8345416**	Price	**DD8355416**	Price
1	1	1-1/2	4	.090	**DD8315418**	Price	**DD8325418**	Price	**DD8345418**	Price	**DD8355418**	Price
1	1	1-1/2	4	.125	**DD8315420**	Price	**DD8325420**	Price	**DD8345420**	Price	**DD8355420**	Price

PREMIER HP HIGH PERFORMANCE 4 Flute 30° Corner Radius AlTiN Coated End Mills

- O.D. tolerance: -.0005"~-.0015"
- Widely used for milling raw material to hardened steel
- Best for work in material 60HRC or above



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price
1/8	1/8	5/8	2	.020	**DD25EM15300803**	Price
3/16	3/16	3/4	2-1/8	.010	**DD25EM15301202**	Price
1/4	1/4	1	2-3/4	.020	**DD25EM15301603**	Price
5/16	5/16	1	2-3/4	.020	**DD25EM15302002**	Price
3/8	3/8	1	2-3/4	.020	**DD25EM15302402**	Price
1/2	1/2	1-1/2	3-1/2	.030	**DD25EM15303203**	Price
5/8	5/8	1-3/4	4	.030	**DD25EM15304003**	Price

truCORE® E14 4 Flute Solid Carbide End Mills-Metric

MADE IN THE USA

Center Cutting • Square End

- Precision ground for reliability and outstanding performance
- Fine grain carbide for greater toughness, wear resistance, and higher transverse rupture strength
- AlTiN coated for most applications, micrograin for non-ferrous materials
- Round shank, 30° helix



K Good in Cast Iron
M Good in Stainless Steels
P Good in Carbon and Tool Steels
N Good in Non-ferrous

				AlTiN		Uncoated	
Size	Shank Dia.	Flute Length	OAL	Order No.	Price	Order No.	Price
2mm	3mm	9mm	38mm	**DD4030253**	Price	**DD4038608**	Price
2.5mm	3mm	9.5mm	38mm	**DD4032212**	Price	**DD4031474**	Price
3mm	3mm	12mm	38mm	**DD4032214**	Price	**DD4031475**	Price
3.5mm	4mm	14mm	50mm	**DD4032216**	Price	**-**	-
4mm	4mm	14mm	50mm	**DD4032218**	Price	**DD4031477**	Price
5mm	5mm	16mm	50mm	**DD4032224**	Price	**DD4031479**	Price
6mm	6mm	19mm	63mm	**DD4032226**	Price	**DD4031480**	Price
8mm	8mm	20mm	63mm	**DD4032228**	Price	**DD4031482**	Price
10mm	10mm	25mm	72mm	**DD4032230**	Price	**DD4031484**	Price
12mm	12mm	25mm	76mm	**DD4032231**	Price	**DD4031485**	Price
20mm	20mm	38mm	104mm	**DD4036597**	Price	**DD4036581**	Price

RAPIDKUT® 4 Flute Metric Solid Carbide Single End Mills



Center Cutting • Regular Length

- Premium micrograin carbide
- Designed to cut materials ranging from nickel-based alloy, stainless, tough alloys, abrasives and non-ferrous metals
- 30° Helix

				AlTiN		TiN		Uncoated	
Size	Shank Dia.	Flute Length	OAL	Order No.	Price	Order No.	Price	Order No.	Price
2mm	3mm	9mm	38mm	**DD8256000**	Price	**DD554200MST**	Price	**DD504200MS**	Price
2.5mm	3mm	12mm	38mm	**DD8256001**	Price	**DD554250MST**	Price	**DD504250MS**	Price
3mm	3mm	12mm	38mm	**DD8256002**	Price	**DD554300MST**	Price	**DD504300MS**	Price
3.5mm	4mm	12mm	51mm	**DD8256003**	Price	**DD554350MST**	Price	**DD504350MS**	Price
4mm	4mm	14mm	51mm	**DD8256004**	Price	**DD554400MST**	Price	**DD504400MS**	Price
4.5mm	5mm	14mm	51mm	**DD8256005**	Price	**DD554450MST**	Price	**DD504450MS**	Price
5mm	5mm	20mm	51mm	**DD8256006**	Price	**DD554500MST**	Price	**DD504500MS**	Price
6mm	6mm	20mm	63mm	**DD8256007**	Price	**DD554600MST**	Price	**DD504600MS**	Price
7mm	8mm	20mm	63mm	**DD8256008**	Price	**DD554700MST**	Price	**DD504700MS**	Price
8mm	8mm	20mm	63mm	**DD8256009**	Price	**DD554800MST**	Price	**DD504800MS**	Price
9mm	10mm	22mm	70mm	**DD8256010**	Price	**DD554900MST**	Price	**DD504900MS**	Price
10mm	10mm	25mm	70mm	**DD8256011**	Price	**DD554010MST**	Price	**DD504010MS**	Price
11mm	12mm	25mm	76mm	**DD8253988**	Price	**-**	-	**DD504110MS**	Price
12mm	12mm	25mm	76mm	**DD8256012**	Price	**DD554120MST**	Price	**DD504120MS**	Price
13mm	13mm	22mm	70mm	**-**	-	**DD554130MST**	Price	**-**	-
14mm	14mm	32mm	89mm	**DD8256795**	Price	**DD554140MST**	Price	**DD504140MS**	Price
16mm	16mm	32mm	89mm	**DD8256796**	Price	**DD554160MST**	Price	**DD504160MS**	Price
18mm	18mm	38mm	100mm	**DD8256797**	Price	**DD554180MST**	Price	**DD504180MS**	Price
20mm	20mm	38mm	100mm	**DD8256798**	Price	**DD554002MST**	Price	**DD504002MS**	Price
25mm	25mm	38mm	100mm	**DD8256800**	Price	**DD554025MST**	Price	**DD504025MS**	Price

RAPIDKUT® 4 Flute Solid Carbide Ball End Single End Mills



Center Cutting

- 30° Helix
- Used for radius and contouring part surfaces
- Designed to cut materials ranging from nickel base alloy, stainless, tough alloys, abrasives and non-ferrous
- Made from premium submicron grain carbide
- Cutting diameter tolerance:

  1/32 to 1/4 +.000/-.002”
  9/32 to 1” +.000/-.003”

				Uncoated		TiN		TiCN		AlTiN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/32	1/8	1/16	1-1/2	DD6016239	Price	DD6526239	Price	DD8046239	Price	DD8256239	Price
1/32	1/8	3/32	1-1/2	DD6012645	Price	DD6522645	Price	DD8042645	Price	DD8252645	Price
3/64	1/8	1/8	1-1/2	DD6011825	Price	DD6521825	Price	DD8041825	Price	DD8251825	Price
1/16	1/8	1/8	1-1/2	DD6016241	Price	DD6526241	Price	DD8046241	Price	DD8256241	Price
1/16	1/8	3/16	1-1/2	DD604004B	Price	DD654004BT	Price	DD804004BTCN	Price	DD8252567	Price
5/64	1/8	3/16	1-1/2	DD604005B	Price	DD654005BT	Price	-	-	DD8252647	Price
3/32	1/8	3/16	1-1/2	DD6016242	Price	DD6526242	Price	DD8046242	Price	DD8256242	Price
3/32	1/8	3/8	1-1/2	DD604006B	Price	DD654006BT	Price	DD804006BTCN	Price	DD8252649	Price
7/64	1/8	3/8	1-1/2	DD604007B	Price	DD654007BT	Price	-	-	DD8252659	Price
1/8	1/8	1/4	1-1/2	DD6017924	Price	DD6527924	Price	DD8047924	Price	DD8257924	Price
1/8	1/8	1/2	1-1/2	DD604008B	Price	DD654008BT	Price	DD804008BTCN	Price	DD8257910	Price
1/8	1/8	3/4	3	DD6016188	Price	DD6526188	Price	DD8046188	Price	DD8256188	Price
1/8	1/8	1	3	DD604008BL	Price	DD654008BLT	Price	-	-	DD8256254	Price
9/64	3/16	9/16	2	DD604009B	Price	DD654009BT	Price	-	-	DD8256204	Price
5/32	3/16	5/16	1-1/2	DD6016244	Price	DD6526244	Price	DD8046244	Price	DD8256244	Price
5/32	3/16	9/16	2	DD604010B	Price	DD654010BT	Price	DD804010BTCN	Price	DD8251827	Price
11/64	3/16	9/16	2	DD604011B	Price	DD654011BT	Price	-	-	DD8256205	Price
3/16	3/16	3/8	1-1/2	DD6017925	Price	DD6526245	Price	DD8046245	Price	DD8256245	Price
3/16	3/16	5/8	2	DD604012B	Price	DD654012BT	Price	DD804012BTCN	Price	DD8257911	Price
3/16	3/16	3/4	3	DD6016189	Price	DD6526189	Price	DD8046189	Price	DD8256189	Price
3/16	3/16	1-1/8	3	DD604012BL	Price	DD654012BLT	Price	-	-	DD8256255	Price
13/64	1/4	5/8	2	DD604013B	Price	DD654013BT	Price	-	-	DD8256206	Price
7/32	1/4	1/2	2	DD6016246	Price	DD6526246	Price	DD8046246	Price	DD8256246	Price
7/32	1/4	5/8	2-1/2	DD604014B	Price	DD654014BT	Price	DD804014BTCN	Price	DD8252663	Price
15/64	1/4	3/4	2-1/2	DD604015B	Price	DD654015BT	Price	-	-	DD8252665	Price
1/4	1/4	1/2	2	DD6017926	Price	DD6527926	Price	DD8047926	Price	DD8257926	Price
1/4	1/4	3/4	2-1/2	DD604016B	Price	DD654016BT	Price	DD804016BTCN	Price	DD8257912	Price
1/4	1/4	1-1/8	3	DD6011031	Price	DD6521031	Price	DD8041031	Price	DD8251031	Price
1/4	1/4	1-1/2	4	DD604016BL	Price	DD654016BLT	Price	-	-	DD8251033	Price
17/64	5/16	3/4	2-1/2	DD604017B	Price	DD654017BT	Price	-	-	DD8252667	Price
9/32	5/16	3/4	2-1/2	DD604018B	Price	DD654018BT	Price	DD804018BTCN	Price	DD8252669	Price
19/64	5/16	13/16	2-1/2	DD604019B	Price	DD654019BT	Price	-	-	DD8252671	Price
5/16	5/16	1/2	2	DD6016248	Price	DD6526248	Price	DD8046248	Price	DD8256248	Price
5/16	5/16	13/16	2-1/2	DD604020B	Price	DD654020BT	Price	DD804020BTCN	Price	DD8257913	Price
5/16	5/16	1-1/8	3	DD6016191	Price	DD6526191	Price	DD8046191	Price	DD8256191	Price
5/16	5/16	1-5/8	4	DD604020BL	Price	DD654020BLT	Price	-	-	DD8256257	Price
11/32	3/8	7/8	2-1/2	DD6012673	Price	DD6522673	Price	DD8042673	Price	DD8252673	Price
3/8	3/8	5/8	2	DD6017928	Price	DD6527928	Price	DD8047928	Price	DD8257928	Price
3/8	3/8	1	2-1/2	DD604024B	Price	DD654024BT	Price	DD804024BTCN	Price	DD8257914	Price
3/8	3/8	1-3/4	4	DD604024BL	Price	DD654024BLT	Price	-	-	DD8251037	Price
13/32	7/16	1	2-3/4	DD6012675	Price	DD6522675	Price	DD8042675	Price	DD8252675	Price
7/16	7/16	1	2-3/4	DD604028B	Price	DD654028BT	Price	DD804028BTCN	Price	DD8257915	Price
7/16	7/16	2	4	DD6016193	Price	DD6526193	Price	DD8046193	Price	DD8256193	Price
7/16	7/16	3	6	DD604028BL	Price	DD654028BLT	Price	-	-	-	-
1/2	1/2	3	6	DD604032BL	Price	DD654032BLT	Price	DD804032BLTCN	Price	DD8251041	Price
1/2	1/2	5/8	2-1/2	DD6017930	Price	DD6527930	Price	DD8047930	Price	DD8257930	Price
1/2	1/2	1	3	DD604032B	Price	DD654032BT	Price	DD804032BTCN	Price	DD8257916	Price
1/2	1/2	2	4	DD6011039	Price	DD6521039	Price	-	-	DD8251039	Price
5/8	5/8	1-1/4	3-1/2	DD604040B	Price	DD654040BT	Price	DD804040BTCN	Price	DD8251043	Price
9/16	9/16	1-1/4	3-1/2	DD604036B	Price	DD654036BT	Price	DD804036BTCN	Price	DD8252679	Price
5/8	5/8	3/4	3	DD6016252	Price	DD6526252	Price	DD8046252	Price	DD8256252	Price
5/8	5/8	3	6	DD604040BL	Price	DD654040BLT	Price	-	-	DD8251047	Price
11/16	3/4	1-3/8	4	DD604044B	Price	DD654044BT	Price	DD804044BTCN	Price	-	-
3/4	3/4	1	3	DD6016253	Price	DD6526253	Price	DD8046253	Price	DD8256253	Price
3/4	3/4	1-1/2	4	DD604048B	Price	DD654048BT	Price	DD804048BTCN	Price	DD8251049	Price
3/4	3/4	2-1/4	5	DD6011051	Price	DD6521051	Price	DD8041051	Price	DD8251051	Price
3/4	3/4	3	6	DD604048BL	Price	DD654048BLT	Price	-	-	DD8251053	Price
7/8	7/8	1-1/2	4	DD604056B	Price	DD654056BT	Price	DD804056BTCN	Price	DD8252059	Price
1	1	1-1/2	4	DD604100B	Price	DD654100BT	Price	DD804100BTCN	Price	DD8251055	Price
1	1	3	6	DD604100BL	Price	DD654100BLT	Price	-	-	DD8251059	Price

truCORE® E14 Solid Carbide 4 Flute Ball Nose End Mills

- For contour milling where chip packing is not a problem
- Fine grain carbide for greater toughness, wear resistance, and higher transverse rupture strength
- Multiple coatings available for all of your application needs
- Round shank
- 30° Helix

P Good in Carbon and Tool Steels
K Good in Cast Iron
M Good in Stainless Steels

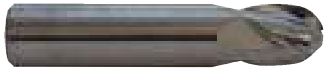


Spector AlTiN | Accelerator TiCN | MADE IN THE USA

				AlTiN		TiCN		Uncoated	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/32	1/8	3/32	1-1/2	DD4030559	Price	-	-	DD4030901	Price
3/64	1/8	9/64	1-1/2	DD4030539	Price	-	-	-	-
1/16	1/8	1/8	1-1/2	DD4030530	Price	-	-	-	-
1/16	1/8	3/16	1-1/2	DD4097852	Price	DD4034504	Price	DD4030905	Price
5/64	1/8	1/4	1-1/2	DD4030482	Price	-	-	-	-
3/32	1/8	3/16	1-1/2	DD4031700	Price	-	-	-	-
3/32	1/8	3/8	1-1/2	DD4030992	Price	DD4034506	Price	DD4030909	Price
1/8	1/8	1/4	1-1/2	DD4031747	Price	-	-	-	-
1/8	1/8	1/2	1-1/2	DD4030997	Price	DD4034508	Price	DD4030913	Price
1/8	1/8	5/8	2	DD4037897	Price	-	-	-	-
1/8	1/8	3/4	2-1/4	DD4037911	Price	-	-	-	-
1/8	1/8	1	3	DD4097842	Price	-	-	-	-
5/32	3/16	5/16	2	DD4030465	Price	-	-	-	-
5/32	3/16	9/16	2	DD4030468	Price	-	-	-	-
3/16	3/16	3/8	2	DD4031746	Price	-	-	-	-
3/16	3/16	5/8	2	DD4030524	Price	DD4034512	Price	DD4030921	Price
3/16	3/16	3/4	2-1/2	DD4037915	Price	-	-	-	-
3/16	3/16	1	4	DD4037898	Price	-	-	-	-
3/16	3/16	1-1/8	3	DD4037938	Price	-	-	-	-
7/32	1/4	5/8	2-1/2	DD4031046	Price	-	-	-	-
1/4	1/4	1/2	2	DD4031745	Price	-	-	-	-
1/4	1/4	3/4	2-1/2	DD4030998	Price	DD4034516	Price	DD4030929	Price
1/4	1/4	1	4	DD4037899	Price	-	-	-	-
1/4	1/4	1-1/8	3	DD4037919	Price	-	-	-	-
1/4	1/4	1-1/2	4	DD4096411	Price	-	-	-	-
1/4	1/4	1-1/2	6	DD4097844	Price	-	-	-	-
5/16	5/16	1/2	2	DD4031744	Price	-	-	-	-
5/16	5/16	13/16	2-1/2	DD4030525	Price	-	-	-	-
5/16	5/16	1-1/8	3	DD4034323	Price	-	-	-	-
5/16	5/16	1-5/8	4	DD4034361	Price	-	-	-	-
3/8	3/8	5/8	2	DD4031749	Price	-	-	-	-
3/8	3/8	1	2-1/2	DD4098262	Price	DD4034524	Price	DD4030945	Price
3/8	3/8	1-1/8	3	DD4037927	Price	-	-	-	-
3/8	3/8	1-3/4	4	DD4034335	Price	-	-	-	-
7/16	7/16	1	2-3/4	DD4031052	Price	-	-	-	-
1/2	1/2	5/8	2-1/2	DD4031743	Price	-	-	-	-
1/2	1/2	1	3	DD4097922	Price	DD4034532	Price	DD4030961	Price
1/2	1/2	2	4	DD4037935	Price	-	-	-	-
1/2	1/2	3	6	DD4030473	Price	-	-	-	-
9/16	9/16	1-1/4	3-1/2	DD4030409	Price	-	-	-	-
5/8	5/8	1-1/4	3-1/2	DD4030991	Price	DD4034540	Price	-	-
3/4	3/4	1-1/2	4	DD4095757	Price	DD4034548	Price	-	-

TuffCut® GP 4 Flute Ball Nose Carbide End Mills

- Stub length
- 30° Helix



- Designed for aggressive milling of most materials with reduced deflection and improved tool life and overall economy
- M.A. Ford List #165

				Uncoated		ALtima	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/64	1/8	.023	1-1/2	DD1516500	Price	-	-
1/32	1/8	1/16	1-1/2	DD1516501	Price	-	-
3/64	1/8	3/32	1-1/2	DD1516505	Price	-	-
1/16	1/8	1/8	1-1/2	DD1516509	Price	-	-
5/64	1/8	5/32	1-1/2	DD1516510	Price	-	-
3/32	1/8	3/16	1-1/2	DD1516513	Price	-	-
7/64	1/8	7/32	1-1/2	DD1516516	Price	-	-
1/8	1/8	1/4	1-1/2	DD1516519	Price	DD1556534	Price
9/64	3/16	5/16	2	DD1516522	Price	-	-
5/32	3/16	5/16	2	DD1516523	Price	-	-
11/64	3/16	3/8	2	DD1516526	Price	-	-
3/16	3/16	3/8	2	DD1516529	Price	DD1556541	Price
13/64	1/4	1/2	2	DD1516532	Price	-	-
7/32	1/4	1/2	2	DD1516535	Price	-	-
15/64	1/4	1/2	2	DD1516536	Price	-	-
1/4	1/4	1/2	2	DD1516539	Price	DD1556548	Price
9/32	5/16	1/2	2	DD1516542	Price	-	-
5/16	5/16	1/2	2	DD1516543	Price	DD1556551	Price
3/8	3/8	5/8	2	DD1516549	Price	DD1556554	Price
7/16	7/16	5/8	2-1/2	DD1516555	Price	DD1556557	Price
1/2	1/2	5/8	2-1/2	DD1516559	Price	DD1556559	Price
5/8	5/8	3/4	3	DD1516563	Price	DD1556561	Price
3/4	3/4	1	3	DD1516569	Price	DD1556564	Price

TuffCut® GP 4 Flute Ball Nose Carbide End Mills



Center Cutting • Standard Length • 30° Helix

- Manufactured with a full ball radius end
- Designed for milling fillets or similar rounded corners in the bottom of a cut
- Ideal for most ferrous metal applications
- M.A. Ford Series #140

				Uncoated		ALtima	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
3/64	1/8	7/64	1-1/2	**DD1514005**	Price	-	-
1/16	1/8	3/16	1-1/2	**DD1514009**	Price	-	-
5/64	1/8	3/16	1-1/2	**DD1514011**	Price	-	-
3/32	1/8	9/32	1-1/2	**DD1514015**	Price	-	-
7/64	1/8	3/8	1-1/2	**DD1514021**	Price	-	-
1/8	1/8	3/8	1-1/2	**DD1514025**	Price	**DD1514002**	Price
5/32	3/16	1/2	2	**DD1514029**	Price	-	-
3/16	3/16	5/8	2	**DD1514035**	Price	**DD1514006**	Price
7/32	1/4	5/8	2-1/2	**DD1514041**	Price	-	-
1/4	1/4	3/4	2-1/2	**DD1514045**	Price	**DD1514012**	Price
9/32	5/16	3/4	2-1/2	**DD1514049**	Price	-	-
5/16	5/16	13/16	2-1/2	**DD1514051**	Price	**DD1514014**	Price
3/8	3/8	7/8	2-1/2	**DD1514057**	Price	**DD1514018**	Price
7/16	7/16	1	2-3/4	**DD1514063**	Price	**DD1514022**	Price
1/2	1/2	1	3	**DD1514067**	Price	**DD1514026**	Price
9/16	9/16	1-1/8	3-1/2	**DD1514071**	Price	-	-
5/8	5/8	1-1/4	3-1/2	-	-	**DD1514028**	Price
11/16	3/4	1-3/8	4	**DD1514077**	Price	-	-
3/4	3/4	1-1/2	4	**DD1514081**	Price	**DD1514032**	Price
7/8	7/8	1-1/2	4	**DD1514087**	Price	-	-
1	1	1-1/2	4	**DD1514019**	Price	**DD1554001**	Price

4 Flute Carbide Ball Nose End Mills

- Micrograin carbide end mill
- Regular length
- Ball end
- OSG List #404BN



Type - Fractional Ball End					
Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1/32	1/8	1/8	1-1/2	**TP374040312BN**	Price
3/64	1/8	9/64	1-1/2	**TP374040469BN**	Price
1/16	1/8	3/16	1-1/2	**TP374040625BN**	Price
5/64	1/8	1/4	1-1/2	**TP374040781BN**	Price
3/32	1/8	5/16	1-1/2	**TP374040938BN**	Price
1/8	1/8	1/2	1-1/2	**TP374041250BN**	Price
9/64	3/16	1/2	2	**TP374041406BN**	Price
5/32	3/16	9/16	2	**TP374041562BN**	Price
3/16	3/16	5/8	2	**TP374041875BN**	Price
13/64	1/4	5/8	2-1/2	**TP374042031BN**	Price
7/32	1/4	5/8	2-1/2	**TP374042188BN**	Price
1/4	1/4	3/4	2-1/2	**TP374042500BN**	Price
17/64	5/16	3/4	2-1/2	**TP374042656BN**	Price
9/32	5/16	3/4	2-1/2	**TP374042812BN**	Price
5/16	5/16	13/16	2-1/2	**TP374043125BN**	Price
3/8	3/8	1	2-1/2	**TP374043750BN**	Price
7/16	7/16	1	2-3/4	**TP374044375BN**	Price
1/2	1/2	1	3	**TP374045000BN**	Price
5/8	5/8	1-1/4	3-1/2	**TP374046250BN**	Price
3/4	3/4	1-1/2	4	**TP374047500BN**	Price

Type - Fractional Ball End					
Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
7/8	7/8	1-1/2	4	**TP374048750BN**	Price
1	1	1-1/2	4	**TP374041000BN**	Price

Type - Metric Ball End					
Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
1mm	3mm	3mm	39mm	**TP374040394BN**	Price
1.5mm	3mm	5mm	39mm	**TP374040591BN**	Price
2mm	3mm	7mm	39mm	**TP374040787BN**	Price
2.5mm	3mm	8mm	39mm	**TP374040984BN**	Price
3mm	3mm	10mm	39mm	**TP374041181BN**	Price
4mm	4mm	14mm	51mm	**TP374041575BN**	Price
5mm	5mm	16mm	51mm	**TP374041968BN**	Price
6mm	6mm	19mm	64mm	**TP374042362BN**	Price
7mm	8mm	19mm	64mm	**TP374042756BN**	Price
8mm	8mm	21mm	64mm	**TP374043150BN**	Price
10mm	10mm	25mm	70mm	**TP374043937BN**	Price
12mm	12mm	25mm	76mm	**TP374044724BN**	Price
14mm	14mm	30mm	89mm	**TP374045512BN**	Price
16mm	16mm	32mm	89mm	**TP374046299BN**	Price
18mm	18mm	35mm	102mm	**TP374047087BN**	Price
20mm	20mm	38mm	102mm	**TP374047874BN**	Price

RAPIDKUT® 4 Flute Metric Solid Carbide Ball End Single End Mills

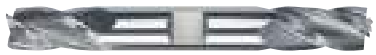


Center Cutting

- Premium micrograin carbide
- 30° Helix

				Uncoated		TiN		AlTiN	
Dia	Shank Dia.	Flute Length	OAL	Order No.	Price	Order No.	Price	Order No.	Price
2mm	3mm	9mm	38mm	**DD604200MB**	Price	**DD654200MBT**	Price	**DD6056572**	Price
2.5mm	3mm	12mm	38mm	**DD604250MB**	Price	**DD654250MBT**	Price	**DD6056573**	Price
3mm	3mm	12mm	38mm	**DD604300MB**	Price	**DD654300MBT**	Price	**DD6056574**	Price
3.5mm	4mm	12mm	51mm	**DD604350MB**	Price	**DD654350MBT**	Price	**DD6056575**	Price
4mm	4mm	14mm	51mm	**DD604400MB**	Price	**DD654400MBT**	Price	**DD6056576**	Price
4.5mm	5mm	14mm	51mm	**DD604450MB**	Price	-	-	**DD6056577**	Price
5mm	5mm	20mm	51mm	**DD604500MB**	Price	**DD654500MBT**	Price	**DD6056578**	Price
6mm	6mm	20mm	63mm	**DD604600MB**	Price	**DD654600MBT**	Price	**DD6056579**	Price
7mm	8mm	20mm	63mm	**DD604700MB**	Price	**DD654700MBT**	Price	**DD6056580**	Price
8mm	8mm	20mm	63mm	**DD604800MB**	Price	**DD654800MBT**	Price	**DD6056581**	Price
9mm	10mm	22mm	70mm	**DD604900MB**	Price	**DD654900MBT**	Price	**DD6056582**	Price
10mm	10mm	25mm	70mm	**DD604010MB**	Price	**DD654010MBT**	Price	**DD6056583**	Price
11mm	12mm	22mm	70mm	-	-	-	-	**DD6054067**	Price
12mm	12mm	25mm	76mm	**DD604120MB**	Price	**DD654120MBT**	Price	**DD6056584**	Price
14mm	14mm	32mm	89mm	**DD604140MB**	Price	**DD654140MBT**	Price	**DD6056585**	Price
16mm	16mm	32mm	89mm	**DD604160MB**	Price	-	-	**DD6056586**	Price
18mm	18mm	38mm	100mm	**DD604180MB**	Price	-	-	**DD6056587**	Price
20mm	20mm	38mm	100mm	**DD604002MB**	Price	-	-	**DD6056588**	Price
25mm	25mm	38mm	100mm	**DD604025MB**	Price	-	-	**DD6056804**	Price

SOLID MORSE MASTER Solid Carbide 4 Flute Double End Mills



30° Helix • Center Cutting

- 4-Flute mills reduce chip load per tooth for the milling of tougher materials, greater wear resistance and improved surface finish
- Center cutting end allows for plunge cutting into solid material

				Uncoated		TiN		TiCN		TiAlN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/16	1/8	1/8	1-1/2	MT3257270	Price	MT3291000	Price	MT3291011	Price	MT3291022	Price
3/32	1/8	3/16	1-1/2	MT3257271	Price	MT3291001	Price	MT3291012	Price	MT3291023	Price
1/8	1/8	1/4	1-1/2	-	-	-	-	-	-	MT3291024	Price
1/8	3/16	1/4	1-1/2	MT3257272	Price	MT3291002	Price	MT3291013	Price	-	-
1/8	3/8	3/8	3-1/8	MT3257108	Price	MT3291050	Price	MT3291060	Price	MT3291070	Price
5/32	3/16	5/16	2	MT3257273	Price	MT3291003	Price	MT3291014	Price	MT3291025	Price
5/32	3/8	7/16	3-1/8	MT3257110	Price	MT3291051	Price	MT3291061	Price	MT3291071	Price
3/16	3/16	3/8	2	MT3257274	Price	MT3291004	Price	MT3291015	Price	MT3291026	Price
3/16	3/8	1/2	3-1/4	MT3257112	Price	MT3291052	Price	MT3291062	Price	MT3291072	Price
7/32	1/4	1/2	2-1/2	MT3257275	Price	MT3291005	Price	MT3291016	Price	MT3291027	Price
7/32	3/8	9/16	3-3/8	MT3257114	Price	MT3291053	Price	MT3291063	Price	MT3291073	Price
1/4	1/4	1/2	2-1/2	MT3257276	Price	MT3291006	Price	MT3291017	Price	MT3291028	Price
1/4	3/8	5/8	3-3/8	MT3257116	Price	MT3291054	Price	MT3291064	Price	MT3291074	Price
9/32	3/8	11/16	3-3/8	MT3257118	Price	MT3291055	Price	MT3291065	Price	MT3291075	Price
5/16	5/16	1/2	2-1/2	MT3257277	Price	MT3291007	Price	MT3291018	Price	MT3291029	Price
5/16	3/8	3/4	3-1/2	MT3257120	Price	MT3291056	Price	MT3291066	Price	MT3291076	Price
3/8	3/8	9/16	2-1/2	MT3257278	Price	MT3291008	Price	MT3291019	Price	MT3291030	Price
3/8	3/8	3/4	3-1/2	MT3257124	Price	MT3291057	Price	MT3291067	Price	MT3291077	Price
7/16	7/16	9/16	3	MT3257279	Price	MT3291009	Price	MT3291020	Price	MT3291031	Price
7/16	1/2	7/8	4	MT3257128	Price	MT3291058	Price	MT3291068	Price	MT3291078	Price
1/2	1/2	5/8	3	MT3257280	Price	MT3291010	Price	MT3291021	Price	MT3291032	Price
1/2	1/2	1	4	MT3257132	Price	MT3291059	Price	MT3291069	Price	MT3291079	Price

truCORE® E24 Solid Carbide Double End 4 Flute Square End Mills

MADE IN THE USA

- Stub length double end geometry offers added strength and excellent rigidity
- Typical uses are machining shallow slots and keyways.
- Precision ground for reliability and repeatability
- Fine grain carbide for greater toughness, wear resistance, and higher transverse rupture strength
- Round shank, 30° helix





				AlTiN	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/32	1/8	1/16	1-1/2	DD4030410	Price
3/64	1/8	3/32	1-1/2	DD4031900	Price
1/16	1/8	1/8	1-1/2	DD4031985	Price
3/32	1/8	3/16	1-1/2	DD4031927	Price
1/8	1/8	1/4	1-1/2	DD4099125	Price
5/32	3/16	5/16	2	DD4031995	Price

				AlTiN	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
3/16	3/16	3/8	2	DD4099331	Price
7/32	1/4	1/2	2-1/2	DD4031959	Price
1/4	1/4	1/2	2-1/2	DD4031990	Price
5/16	5/16	1/2	2-1/2	DD4031991	Price
3/8	3/8	9/16	2-1/2	DD4031929	Price
1/2	1/2	5/8	3	DD4031998	Price

RAPIDKUT 4 Flute Solid Carbide Double End Mills



Stub Length • Center Cutting

- 30º Helix
- Used for general purpose milling in most materials of medium hardness such as steel, brass, iron and non-ferrous material
- Made from premium submicron grain carbide
- Cutting diameter tolerance +.000/.002”

				Uncoated		TiN		TiCN		AlTiN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/32	1/8	1/16	1-1/2	DD504002D	Price	DD554002DT	Price	DD804002DTCN	Price	DD8256645	Price
3/64	1/8	3/32	1-1/2	DD504003D	Price	DD554003DT	Price	DD804003DTCN	Price	DD8256646	Price
1/16	1/8	1/8	1-1/2	DD504004D	Price	DD554004DT	Price	DD804004DTCN	Price	DD8256647	Price
3/32	1/8	3/16	1-1/2	DD504006D	Price	DD554006DT	Price	DD804006DTCN	Price	DD8256649	Price
1/8	1/8	1/4	1-1/2	DD504008D	Price	DD554008DT	Price	DD804008DTCN	Price	DD8256650	Price
5/32	3/16	5/16	2	DD504010D	Price	DD554010DT	Price	DD804010DTCN	Price	DD8257948	Price
3/16	3/16	3/8	2	DD504012D	Price	DD554012DT	Price	DD804012DTCN	Price	DD8257950	Price
7/32	1/4	1/2	2-1/2	DD504014D	Price	DD554014DT	Price	DD804014DTCN	Price	DD8257952	Price
1/4	1/4	1/2	2-1/2	DD504016D	Price	DD554016DT	Price	DD804016DTCN	Price	DD8257954	Price
5/16	5/16	1/2	2-1/2	DD504020D	Price	DD554020DT	Price	DD804020DTCN	Price	DD8257955	Price
3/8	3/8	9/16	2-1/2	DD504024D	Price	DD554024DT	Price	DD804024DTCN	Price	DD8257956	Price
7/16	7/16	5/8	3	DD504028D	Price	DD554028DT	Price	DD804028DTCN	Price	DD8257957	Price
1/2	1/2	5/8	3	DD504032D	Price	DD554032DT	Price	DD804032DTCN	Price	DD8257958	Price

RAPIDKUT® 4 Flute Solid Carbide Ball End Double End Mills



Center Cutting • Stub Length

- 30º Helix
- Use for radius and contouring part surfaces
- Designed to cut materials ranging from nickel base alloy, stainless, tough alloys, abrasives and non-ferrous
- Made from premium submicron grain carbide
- Cutting diameter tolerance +.000/.002”

				Uncoated		TiN		TiCN		AlTiN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/32	1/8	1/16	1-1/2	**DD604002DB**	Price	**DD654002DBT**	Price	**DD804002DBTCN**	Price	**DD8252685**	Price
3/64	1/8	3/32	1-1/2	**DD604003DB**	Price	**DD654003DBT**	Price	**DD804003DBTCN**	Price	**DD8252687**	Price
1/16	1/8	1/8	1-1/2	**DD604004DB**	Price	**DD654004DBT**	Price	**DD804004DBTCN**	Price	**DD8252581**	Price
3/32	1/8	3/16	1-1/2	**DD604006DB**	Price	**DD654006DBT**	Price	**DD804006DBTCN**	Price	**DD8250941**	Price
1/8	1/8	1/4	1-1/2	**DD604008DB**	Price	**DD654008DBT**	Price	**DD804008DBTCN**	Price	**DD8250945**	Price
5/32	3/16	5/16	2	**DD604010DB**	Price	**DD654010DBT**	Price	**DD804010DBTCN**	Price	**DD8252683**	Price
3/16	3/16	3/8	2	**DD604012DB**	Price	**DD654012DBT**	Price	**DD804012DBTCN**	Price	**DD8250953**	Price
7/32	1/4	1/2	2-1/2	**DD604014DB**	Price	**DD654014DBT**	Price	**DD804014DBTCN**	Price	**DD8252689**	Price
1/4	1/4	1/2	2-1/2	**DD604016DB**	Price	**DD654016DBT**	Price	**DD804016DBTCN**	Price	**DD8252690**	Price
5/16	5/16	1/2	2-1/2	**DD604020DB**	Price	**DD654020DBT**	Price	**DD804020DBTCN**	Price	**DD8252691**	Price
3/8	3/8	9/16	2-1/2	**DD604024DB**	Price	**DD654024DBT**	Price	**DD804024DBTCN**	Price	**DD8252692**	Price
7/16	7/16	5/8	3	**DD604028DB**	Price	**DD654028DBT**	Price	**DD804028DBTCN**	Price	**DD8252693**	Price
1/2	1/2	5/8	3	**DD604032DB**	Price	**DD654032DBT**	Price	**DD804032DBTCN**	Price	**DD8252695**	Price

truCORE® E24 Solid Carbide Double End 4 Flute Ball Nose End Mills

MADE IN THE USA

- Stub length double end geometry offers added strength and excellent rigidity
- Typical uses are machining shallow slots and keyways
- Double end offers added economy, but care must be taken to prevent edge chipping when loading tools into holders
- Precision ground for reliability and outstanding performance
- Fine grain carbide for greater toughness, wear resistance, and higher transverse rupture strength
- Round shank, 30° helix, AlTiN coated



P Good in **Carbon and Tool Steels**

M Good in **Stainless Steels**

K Good in **Cast Iron**

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/32	1/8	1/16	1-1/2	**DD4032083**	Price
3/64	1/8	3/32	1-1/2	**DD4032182**	Price
1/16	1/8	1/8	1-1/2	**DD4032181**	Price
3/32	1/8	3/16	1-1/2	**DD4032086**	Price
1/8	1/8	1/4	1-1/2	**DD4032139**	Price
5/32	3/16	5/16	2	**DD4032090**	Price
3/16	3/16	3/8	2	**DD4032138**	Price
1/4	1/4	1/2	2-1/2	**DD4032137**	Price
3/8	3/8	9/16	2-1/2	**DD4032200**	Price
1/2	1/2	5/8	3	**DD4032201**	Price

RAPIDKUT® Solid Carbide End Mill Sets In Stand

Uncoated or TiN Coated

- The high lubricity of TiN coating improves chip flow, resists galling and edge build up
- TiN coating is ideal for a wide range of applications where improved tool life and elevated feeds and speeds are required

End Mills Consist of 1 ea. size - 1/4, 5/16, 3/8, 1/2, 5/8, 3/4 Type - Single-End End Mills						
			TiN		Uncoated	
No. of Flutes	Style	Length	Order No.	Price	Order No.	Price
4	Square	Extra Long	**DD75CEM3**	Price	**DD70CEM3**	Price

End Mills Consist of 1 ea. size - 1/8, 3/16, 1/4, 5/16, 3/8, 1/2 Type - Double-End End Mills						
			TiN		Uncoated	
No. of Flutes	Style	Length	Order No.	Price	Order No.	Price
4	Square	Stub	**DD75CEM5**	Price	**DD70CEM5**	Price

End Mills Consist of 1 ea. size - 1/8, 3/16, 1/4, 5/16, 3/8, 1/2 Type - Single-End End Mills						
			TiN		Uncoated	
No. of Flutes	Style	Length	Order No.	Price	Order No.	Price
2	Square	Standard	**DD75CEM2**	Price	**DD70CEM2**	Price
4	Ball	Standard	**DD75CEM1BN**	Price	**DD70CEM1BN**	Price
4	Square	Standard	**DD75CEM1**	Price	**DD70CEM1**	Price



STREAKERS® M202 Solid Carbide Square & Corner Radius End Mills for Aluminum

- 2 Flute design unequalled in preventing clogging and loading even when slotting at 1xD axial depth
- Maximized productivity when machining all types of aluminum and non-ferrous materials
- Unique cutting edge and flute design are engineered for aggressive chip evacuation
- Operates effectively in speed ranges from 3,000 to 20,000 rpm
- 45° Helix, round or Weldon shanks

MADE IN THE USA

Best in Aluminum and Non-ferrous





					.015		.030		None	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Shank Type	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	3/8	1-1/2	Round Shank	**DD4033526**	Price	**-**	-	**DD4032949**	Price
3/16	3/16	9/16	2	Round Shank	**DD4033542**	Price	**-**	-	**DD4032950**	Price
1/4	1/4	3/8	2-1/2	Round Shank	**-**	-	**-**	-	**DD4032943**	Price
1/4	1/4	3/4	2-1/2	Round Shank	**DD4033544**	Price	**DD4033548**	Price	**DD4032951**	Price
1/4	1/4	3/4	2-1/2	Weldon Shank	**DD4033546**	Price	**DD4033550**	Price	**DD4032430**	Price
1/4	1/4	1-1/4	3	Round Shank	**DD4033552**	Price	**DD4034382**	Price	**DD4032957**	Price
1/4	1/4	1-1/4	3	Weldon Shank	**-**	-	**-**	-	**DD4032444**	Price
5/16	5/16	13/16	2-1/2	Round Shank	**-**	-	**-**	-	**DD4032952**	Price
5/16	5/16	13/16	2-1/2	Weldon Shank	**-**	-	**-**	-	**DD4032431**	Price
3/8	3/8	1/2	2-1/2	Round Shank	**-**	-	**-**	-	**DD4032945**	Price
3/8	3/8	1	2-1/2	Weldon Shank	**-**	-	**-**	-	**DD4032432**	Price
3/8	3/8	7/8	2-1/2	Weldon Shank	**DD4033649**	Price	**DD4033691**	Price	**-**	-
3/8	3/8	1	2-1/2	Round Shank	**DD4033648**	Price	**DD4033689**	Price	**DD4032953**	Price
3/8	3/8	1-1/2	3-1/4	Round Shank	**DD4033693**	Price	**DD4033886**	Price	**DD4032959**	Price
3/8	3/8	1-1/2	3-1/4	Weldon Shank	**-**	-	**-**	-	**DD4032446**	Price
3/8	3/8	2	4	Round Shank	**DD4034100**	Price	**DD4034144**	Price	**DD4032964**	Price
3/8	3/8	2	4	Weldon Shank	**-**	-	**-**	-	**DD4032510**	Price
1/2	1/2	5/8	3	Round Shank	**-**	-	**-**	-	**DD4032946**	Price
1/2	1/2	1	3	Weldon Shank	**-**	-	**-**	-	**DD4032434**	Price
1/2	1/2	1-1/4	3	Round Shank	**DD4034146**	Price	**DD4034161**	Price	**DD4090358**	Price
1/2	1/2	1-1/4	3-1/4	Weldon Shank	**-**	-	**DD4034162**	Price	**DD4032606**	Price
1/2	1/2	2	4	Round Shank	**-**	-	**DD4034204**	Price	**DD4032960**	Price
1/2	1/2	2	4	Weldon Shank	**-**	-	**DD4034205**	Price	**DD4032447**	Price
1/2	1/2	2-1/2	5	Round Shank	**-**	-	**DD4034235**	Price	**DD4032965**	Price
1/2	1/2	2-1/2	5	Weldon Shank	**-**	-	**-**	-	**DD4032512**	Price
5/8	5/8	1-1/4	3-1/2	Weldon Shank	**-**	-	**-**	-	**DD4032436**	Price
5/8	5/8	1-5/8	3-1/2	Round Shank	**-**	-	**DD4034237**	Price	**DD4032954**	Price
5/8	5/8	2-1/2	5	Round Shank	**-**	-	**DD4034243**	Price	**DD4032966**	Price
5/8	5/8	2-1/2	5	Weldon Shank	**-**	-	**-**	-	**DD4032514**	Price
3/4	3/4	1-5/8	4	Round Shank	**-**	-	**DD4034245**	Price	**DD4032955**	Price
3/4	3/4	1-5/8	4	Weldon Shank	**-**	-	**DD4034246**	Price	**DD4032504**	Price
3/4	3/4	2-1/2	5	Round Shank	**-**	-	**DD4034343**	Price	**DD4032962**	Price
3/4	3/4	2-1/2	5	Weldon Shank	**-**	-	**DD4034344**	Price	**DD4032506**	Price
3/4	3/4	3-1/4	6	Round Shank	**-**	-	**DD4034345**	Price	**DD4032968**	Price
3/4	3/4	3-1/4	6	Weldon Shank	**-**	-	**-**	-	**DD4032516**	Price

RAPIDKUT® 2 Flute Solid Carbide End Mills

For Aluminum

- Square end
- 45° Helix
- Cutting diameter tolerance: +.0000 / -.0005”



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Shank Type	Order No.	Price
1/8	1/8	3/8	1-1/2	Round	**PE1120125**	Price
3/16	3/16	5/8	2	Round	**PE1120187**	Price
1/4	1/4	1/2	2	Round	**PE1120250**	Price
1/4	1/4	1	2-1/2	Round	**PE1120255**	Price
1/4	1/4	2	4	Round	**PE1120260**	Price
5/16	5/16	1-1/8	3	Round	**PE1120312**	Price
3/8	3/8	5/8	2-1/2	Round	**PE1120375**	Price
3/8	3/8	1	2-1/2	Round	**PE1120380**	Price
3/8	3/8	1-1/2	3-1/4	Round	**PE1120385**	Price
3/8	3/8	2	4	Round	**PE1120390**	Price
1/2	1/2	3/4	3	Round	**PE1120500**	Price
1/2	1/2	1-1/4	3	Weldon	**PE1120510**	Price
1/2	1/2	1-1/4	3	Round	**PE1120505**	Price
1/2	1/2	1-1/4	3-1/4	Weldon	**PE1120515**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Shank Type	Order No.	Price
1/2	1/2	2	4	Round	**PE1120520**	Price
1/2	1/2	2	4	Weldon	**PE1120525**	Price
1/2	1/2	2-1/2	5	Round	**PE1120530**	Price
5/8	5/8	1	3-1/2	Round	**PE1120625**	Price
5/8	5/8	1-5/8	3-1/2	Round	**PE1120630**	Price
5/8	5/8	2-1/2	5	Round	**PE1120635**	Price
3/4	3/4	1-3/4	4	Round	**PE1120750**	Price
3/4	3/4	2-1/2	5	Round	**PE1120755**	Price
3/4	3/4	3-1/4	6	Round	**PE1120760**	Price
3/4	3/4	3-1/4	6	Weldon	**PE1120765**	Price
1	1	1-1/4	4	Round	**PE1121000**	Price
1	1	2	4	Round	**PE1121005**	Price
1	1	2-5/8	5	Round	**PE1121010**	Price
1	1	3-1/4	6	Round	**PE1121015**	Price

PREMIER HP HIGH PERFORMANCE Carbide 2 Flute 30° Helix Stub Length Corner Radius End Mills for Aluminum with TiCN Coating



(For Production)

- Good for high velocity milling of aluminum, copper and other non-ferrous materials
- Increased tool life & superior workpiece finishes
- Maximum stock removal, chip ejection, stability
- Corner radius to avoid chipping
- Increased tool life and higher cutting accuracy
- OD tolerance: -.0005" ~ -.0015"
- Shank tolerance: 0 ~ -.0003"

TiCN

Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	Length Below Shank (in.)	Neck Dia.	OAL (in.)	Radius	Order No.	Price
5/32	1/4	5/32	5/16	.1400	1-7/8	.012	**DD25SA302010R**	Price
1/4	1/4	9/32	11/16	.2260	2-1/4	.020	**DD25SA302016R**	Price
5/16	5/16	5/16	1-1/16	.2820	2-5/8	.024	**DD25SA302020R**	Price
3/8	3/8	7/16	1-1/4	.3360	3	.031	**DD25SA302024R**	Price
1/2	1/2	1/2	1-1/4	.4600	3-3/8	.040	**DD25SA302032R**	Price
5/8	5/8	5/8	1-1/2	.5660	3-7/8	.051	**DD25SA302040R**	Price
3/4	3/4	7/8	1-1/2	.6700	37/8	.063	**DD25SA302048R**	Price

TuffCut® AL 2 Flute High Performance End Mills for Aluminum

Metric Sizes

- High performance aluminum finisher out performs competitors
- 45° Helix
- M.A. Ford Series #136



Size	Shank Dia.	Flute Length	OAL	Order No.	Price
3mm	6mm	8mm	52mm	**DD2013600**	Price
4mm	6mm	11mm	55mm	**DD2013602**	Price
5mm	6mm	13mm	58mm	**DD2013605**	Price
6mm	6mm	13mm	58mm	**DD2013610**	Price
8mm	8mm	19mm	64mm	**DD2013615**	Price
10mm	10mm	22mm	70mm	**DD2013620**	Price
12mm	12mm	26mm	84mm	**DD2013625**	Price
14mm	14mm	26mm	84mm	**DD2013626**	Price
16mm	16mm	32mm	89mm	**DD2013630**	Price
18mm	18mm	32mm	92mm	**DD2013631**	Price
20mm	20mm	38mm	102mm	**DD2013635**	Price

MONSTER TOOL COMPANY 2 Flute Carbide End Mills for Aluminum



Corner Radius • 45° Helix

- Specifically designed for maximum productivity in non-ferrous materials
- Excellent work piece finish
- Extremely high feed rates
- ZrN coating offers excellent wear resistance and increased lubricity
- Solid C-2 grade premium sub-micron carbide with 10% cobalt
- Right hand spiral, right hand cut
- Diameter tolerance: +.0000 / -.002"
- Shank tolerance +.0000 / -.0003"

					Uncoated		ZrN	
Dia. (in.)	Shank	LOC	OAL	Radius	Order No.	Price	Order No.	Price
1/8	1/8	1/2	1-1/2	.005-.010	**DC1010001**	Price	**DC1020001**	Price
1/8	1/8	1/4	1-1/2	.005-.010	**DC1010000**	Price	**DC1020000**	Price
5/32	3/16	5/8	2	.005-.010	**DC1010003**	Price	**DC1020003**	Price
3/16	3/16	5/16	2	.005-.010	**DC1010004**	Price	**DC1020004**	Price
3/16	3/16	5/8	2	.005-.010	**DC1010005**	Price	**DC1020005**	Price
7/32	1/4	3/4	2-1/2	.005-.010	**DC1010007**	Price	**DC1020007**	Price
1/4	1/4	1/2	2	.005-.010	**DC1010008**	Price	**DC1020008**	Price
1/4	1/4	1-1/4	3	.005-.010	**DC1010010**	Price	**DC1020010**	Price
1/4	1/4	3/4	2-1/2	.005-.010	**DC1010009**	Price	**DC1020009**	Price
9/32	5/16	13/16	2-1/2	.005-.010	**DC1010012**	Price	**DC1020012**	Price
5/16	5/16	1/2	2-1/2	.005-.010	**DC1010013**	Price	**DC1020013**	Price
5/16	5/16	13/16	2-1/2	.005-.010	**DC1010014**	Price	**DC1020014**	Price
5/16	5/16	1-3/8	3	.005-.010	**DC1010015**	Price	**DC1020015**	Price
3/8	3/8	1-1/8	2-1/2	.005-.010	**DC1010018**	Price	**DC1020018**	Price
3/8	3/8	1-3/8	3	.005-.010	**DC1010019**	Price	**DC1020019**	Price
3/8	3/8	2	4	.005-.010	**DC1010020**	Price	**DC1020020**	Price
3/8	3/8	5/8	2-1/2	.005-.010	**DC1010017**	Price	**DC1020017**	Price
7/16	7/16	1-1/4	2-3/4	.005-.010	**DC1010022**	Price	**DC1020022**	Price
1/2	1/2	1-1/4	3	.005-.010	**DC1010024**	Price	**DC1020024**	Price
1/2	1/2	2	4	.005-.010	**DC1010025**	Price	**DC1020025**	Price
1/2	1/2	3/4	2-1/2	.005-.010	**DC1010023**	Price	**DC1020023**	Price
5/8	5/8	1-1/4	3	.005-.010	**DC1010027**	Price	**DC1020027**	Price
5/8	5/8	1-5/8	3-1/2	.005-.010	**DC1010028**	Price	**DC1020028**	Price
5/8	5/8	2-1/2	5	.005-.010	**DC1010029**	Price	**DC1020029**	Price
3/4	3/4	1	3	.005-.010	**DC1010031**	Price	**DC1020031**	Price
3/4	3/4	1-3/4	4	.005-.010	**DC1010032**	Price	**DC1020032**	Price
3/4	3/4	2-1/2	5	.005-.010	**DC1010033**	Price	**DC1020033**	Price
1	1	1-3/4	4	.005-.010	**DC1010035**	Price	**DC1020035**	Price
1	1	2-5/8	5	.005-.010	**DC1010036**	Price	**DC1020036**	Price
1	1	3-1/4	6	.005-.010	**DC1010037**	Price	**DC1020037**	Price

Additional sizes available

RAPIDKUT® 2 Flute Solid Carbide Aluminum Cutting End Mills

Center Cutting • Standard and Long Lengths



- 35° Helix
- Special geometry allows for high chip loads and feed rates
- Small corner radius for added strength and smoother cutting action
- Excellent for slotting and profiling at high speeds
- Made from premium submicron grain carbide
- Tolerances: +.000/-.002”

					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	3/8	1-1/2	.010	**DD8117737**	Price	**DD8127737**	Price	**DD8147737**	Price
3/16	3/16	5/8	2	.010	**DD8117739**	Price	**DD8127739**	Price	**DD8147739**	Price
1/4	1/4	3/4	2-1/2	.010	**DD8117741**	Price	**DD8127741**	Price	**DD8147741**	Price
1/4	1/4	1-1/8	3	.010	**DD8117755**	Price	**DD8127755**	Price	**DD8147755**	Price
5/16	5/16	13/16	2	.010	**DD8117743**	Price	**DD8127743**	Price	**DD8147743**	Price
5/16	5/16	1-1/8	3	.010	**DD8117756**	Price	**DD8127756**	Price	**DD8147756**	Price
3/8	3/8	1	2-1/2	.015	**DD8117745**	Price	**DD8127745**	Price	**DD8147745**	Price
3/8	3/8	1-1/8	3	.015	**DD8117757**	Price	**DD8127757**	Price	**DD8147757**	Price
7/16	7/16	1	2-3/4	.015	**DD8117747**	Price	**DD8127747**	Price	**DD8147747**	Price
1/2	1/2	1	3	.020	**DD8117749**	Price	**DD8127749**	Price	**DD8147749**	Price
1/2	1/2	2	4	.020	**DD8117759**	Price	**DD8127759**	Price	**DD8147759**	Price
5/8	5/8	1-1/4	3-1/2	.020	**DD8117751**	Price	**DD8127751**	Price	**DD8147751**	Price
5/8	5/8	2-1/4	5	.020	**DD8117760**	Price	**DD8127760**	Price	**DD8147760**	Price
3/4	3/4	1-1/2	4	.030	**DD8117752**	Price	**DD8127752**	Price	**DD8147752**	Price
3/4	3/4	2-1/4	5	.030	**DD8117761**	Price	**DD8127761**	Price	**DD8147761**	Price
1	1	1-1/2	4	.030	**DD8117754**	Price	**DD8127754**	Price	**DD8147754**	Price
1	1	2-1/4	5	.030	**DD8117762**	Price	**DD8127762**	Price	**DD8147762**	Price

EXOCARB® AERO Blizzard® Carbide End Mills

2 Flute



- Carbide end mills for aluminum, aluminum alloys and copper alloys
- Bright finish
- OSG List #2021/2022

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price
1/8	1/8	1/4	1-1/2	None	**TP4620210100**	Price
1/8	1/8	1/4	1-1/2	.010	**TP4820210200**	Price
1/8	1/8	3/8	1-1/2	None	**TP4820220100**	Price
1/8	1/8	3/8	1-1/2	.010	**TP4820220200**	Price
5/32	3/16	5/16	2	None	**TP4820210500**	Price
5/32	3/16	5/16	2	.020	**TP4820210600**	Price
5/32	3/16	9/16	2	None	**TP4820220500**	Price
5/32	3/16	9/16	2	.020	**TP4820220600**	Price
3/16	3/16	5/16	2	None	**TP4620210900**	Price
3/16	3/16	5/16	2	.020	**TP4820211000**	Price
3/16	3/16	9/16	2	None	**TP4820220900**	Price
3/16	3/16	9/16	2	.020	**TP4820221000**	Price
7/32	1/4	3/8	2-1/2	None	**TP4820211300**	Price
7/32	1/4	3/4	2-1/2	None	**TP4820221300**	Price
7/32	1/4	3/8	2-1/2	.020	**TP4820211400**	Price
1/4	1/4	3/8	2-1/2	None	**TP4620211700**	Price
1/4	1/4	3/8	2-1/2	.020	**TP4820211800**	Price
1/4	1/4	3/8	2-1/2	.030	**TP4820211900**	Price
1/4	1/4	3/8	2-1/2	.060	**TP4820212000**	Price
1/4	1/4	3/4	2-1/2	None	**TP4820221700**	Price
1/4	1/4	3/4	2-1/2	.020	**TP4820221800**	Price
1/4	1/4	3/4	2-1/2	.030	**TP4820221900**	Price
1/4	1/4	3/4	2-1/2	.060	**TP4820222000**	Price
9/32	5/16	7/16	2-1/2	None	**TP4820212100**	Price
9/32	5/16	13/16	2-1/2	.020	**TP4820222200**	Price
5/16	5/16	7/16	2-1/2	None	**TP4820212500**	Price
5/16	5/16	7/16	2-1/2	.020	**TP4820212600**	Price
5/16	5/16	13/16	2-1/2	None	**TP4820222500**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price
5/16	5/16	13/16	2-1/2	.020	**TP4820222600**	Price
3/8	3/8	1/2	2-1/2	None	**TP4820213300**	Price
3/8	3/8	1/2	2-1/2	.020	**TP4820213400**	Price
3/8	3/8	1/2	2-1/2	.060	**TP4820213600**	Price
3/8	3/8	1	2-1/2	None	**TP4820223300**	Price
3/8	3/8	1	2-1/2	.020	**TP4820223400**	Price
3/8	3/8	1	2-1/2	.030	**TP4820223500**	Price
3/8	3/8	1	2-1/2	.060	**TP4820223600**	Price
7/16	7/16	1	2-3/4	None	**TP4820224100**	Price
1/2	1/2	5/8	3	None	**TP4820214900**	Price
1/2	1/2	5/8	3	.020	**TP4820215000**	Price
1/2	1/2	5/8	3	.060	**TP4820215200**	Price
1/2	1/2	1-1/4	3	None	**TP4820224900**	Price
1/2	1/2	1-1/4	3	.020	**TP4820225000**	Price
1/2	1/2	1-1/4	3	.030	**TP4820225100**	Price
1/2	1/2	1-1/4	3	.060	**TP4820225200**	Price
5/8	5/8	3/4	3-1/2	None	**TP4820215300**	Price
5/8	5/8	3/4	3-1/2	.030	**TP4820215400**	Price
5/8	5/8	3/4	3-1/2	.060	**TP4820215500**	Price
5/8	5/8	1-5/8	3-1/2	None	**TP4820225300**	Price
5/8	5/8	1-5/8	3-1/2	.030	**TP4820225400**	Price
5/8	5/8	1-5/8	3-1/2	.060	**TP4820225500**	Price
3/4	3/4	1	4	None	**TP4820215700**	Price
3/4	3/4	1	4	.060	**TP4820215800**	Price
3/4	3/4	1-5/8	4	None	**TP4820225700**	Price
3/4	3/4	1-5/8	4	.060	**TP4820225800**	Price
3/4	3/4	1-5/8	4	.120	**TP4820226000**	Price
1	1	1-1/4	4	None	**TP4820216100**	Price
1	1	2	5	None	**TP4820226100**	Price

TuffCut® AL 2 Flute High Performance End Mills for Aluminum

Fractional Sizes

- High performance aluminum finisher out performs competitors
- 45° Helix
- M.A. Ford Series #136



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	1/8	1/4	1-1/2	**DD2013641**	Price
1/8	1/8	3/8	1-1/2	**DD2013671**	Price
1/8	1/8	1/2	1-1/2	**DD2013642**	Price
1/8	1/8	3/4	2	**DD2013672**	Price
1/8	1/8	1	2-1/2	**DD2013643**	Price
5/32	5/32	5/16	2	**DD2013673**	Price
5/32	5/32	9/16	2	**DD2013674**	Price
3/16	3/16	5/16	2	**DD2013644**	Price
3/16	3/16	3/8	2	**DD2013675**	Price
3/16	3/16	5/8	2-1/2	**DD2013646**	Price
3/16	3/16	3/4	2-1/2	**DD2013676**	Price
3/16	3/16	1	2-1/2	**DD2013647**	Price
1/4	1/4	3/8	2	**DD2013678**	Price
1/4	1/4	1/2	2	**DD2013679**	Price
1/4	1/4	5/8	2-1/2	**DD2013680**	Price
1/4	1/4	3/4	2-1/2	**DD2013640**	Price
1/4	1/4	1	2-1/2	**DD2013681**	Price
1/4	1/4	1-1/4	3-1/16	**DD2013648**	Price
1/4	1/4	1-1/2	3	**DD2013682**	Price
1/4	1/4	1-3/4	3-9/16	**DD2013649**	Price
1/4	1/4	2	4	**DD2013683**	Price
5/16	5/16	7/16	2	**DD2013684**	Price
5/16	5/16	1/2	2	**DD2013651**	Price
5/16	5/16	13/16	2-1/2	**DD2013685**	Price
5/16	5/16	1-3/8	3-1/8	**DD2013652**	Price
5/16	5/16	1-3/4	3-1/4	**DD2013653**	Price
3/8	3/8	1/2	2	**DD2013686**	Price
3/8	3/8	5/8	2	**DD2013687**	Price
3/8	3/8	3/4	2-1/2	**DD2013645**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
3/8	3/8	1	2-1/2	**DD2013688**	Price
3/8	3/8	1-1/4	3	**DD2013689**	Price
3/8	3/8	1-1/2	3-1/4	**DD2013654**	Price
3/8	3/8	2	4	**DD2013690**	Price
3/8	3/8	2-1/2	4-1/4	**DD2013660**	Price
1/2	1/2	5/8	3	**DD2013691**	Price
1/2	1/2	3/4	3	**DD2013692**	Price
1/2	1/2	1	3	**DD2013693**	Price
1/2	1/2	1-1/4	3-1/2	**DD2013650**	Price
1/2	1/2	1-1/2	4	**DD2013694**	Price
1/2	1/2	2	4	**DD2013661**	Price
1/2	1/2	2-1/2	5	**DD2013695**	Price
1/2	1/2	3	5	**DD2013662**	Price
5/8	5/8	3/4	3-1/2	**DD2013663**	Price
5/8	5/8	1-1/4	3-1/2	**DD2013696**	Price
5/8	5/8	1-5/8	3-3/4	**DD2013664**	Price
5/8	5/8	2	5	**DD2013697**	Price
5/8	5/8	2-1/2	4-5/8	**DD2013665**	Price
3/4	3/4	1	4	**DD2013698**	Price
3/4	3/4	2	5	**DD2013699**	Price
3/4	3/4	1-5/8	4	**DD2013655**	Price
3/4	3/4	2-1/2	5	**DD2013601**	Price
3/4	3/4	3	5-1/4	**DD2013666**	Price
3/4	3/4	4	6-1/4	**DD2013667**	Price
1	1	1-1/4	4	**DD2013668**	Price
1	1	2	4-1/2	**DD2013669**	Price
1	1	3	6	**DD2013603**	Price
1	1	4	6-1/2	**DD2013670**	Price
1	1	5-1/2	8	**DD2013604**	Price

STREAKERS® M202N Solid Carbide 2 Flute End Mills for Aluminum

MADE IN THE USA

Square End and Corner Radius with Neck Relief

- Neck relief for additional clearance in cavities and when machining against tight walls
- Unequalled at preventing clogging and loading even when slotting at 1xD axial depth
- Maximizes productivity when machining all types of aluminum and non-ferrous materials
- Unique cutting edge and flute design are engineered for aggressive chip evacuation
- Operates effectively in speed ranges from 3,000 to 20,000 rpm
- 40° Helix, round shank

N Best in Aluminum and Non-ferrous





					None	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	Reach (in.)	OAL (in.)	Order No.	Price
1/4	1/4	3/8	1-1/8	2-1/2	**DD4032935**	Price
1/4	1/4	3/8	1-5/8	3	**DD4033016**	Price
1/4	1/4	3/8	2-1/4	4	**DD4033023**	Price
3/8	3/8	1/2	1-1/8	2-1/2	**DD4032936**	Price
3/8	3/8	1/2	1-3/4	3	**DD4033018**	Price
3/8	3/8	1/2	2-1/4	4	**DD4033024**	Price
1/2	1/2	5/8	1-3/8	3	**DD4032937**	Price
1/2	1/2	5/8	2-1/4	4	**DD4033019**	Price
1/2	1/2	5/8	2-3/8	5	**DD4033025**	Price
1/2	1/2	5/8	3-3/8	6	**DD4033032**	Price
5/8	5/8	3/4	2-1/4	5	**DD4033020**	Price
5/8	5/8	3/4	3-3/8	6	**DD4033026**	Price
3/4	3/4	1	1-3/4	4	**DD4032939**	Price
3/4	3/4	1	2-1/4	5	**DD4033021**	Price
3/4	3/4	1	3-3/8	6	**DD4033027**	Price

MICRO 100 High Tech Stub & Regular Length End Mills for Aluminum

2 & 3 Flute — Center Cutting — 45° Helix

- Feature 45° helix for high speed milling of aluminum and soft, non-ferrous materials
- Exceptional surface finishes with conventional machining methods as well as with today's high speed machining technology
- 45° helix diminishes chatter when machining in corners of parts
- Sizes 3/8" and larger feature a Weldon flat
- ZrN coating provides high hardness and abrasion resistance



No. of Flutes - 2							
				Uncoated		ZrN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/16	1/8	1/8	1-1/2	**GE45ASM0622**	Price	**GE45ASM0622S**	Price
1/16	1/8	3/16	1-1/2	**GE45ARM0622**	Price	**GE45ARM0622S**	Price
3/32	1/8	3/16	1-1/2	**GE45ASM0932**	Price	**GE45ASM0932S**	Price
3/32	1/8	3/8	1-1/2	**GE45ARM0932**	Price	**GE45ARM0932S**	Price
1/8	1/8	1/4	1-1/2	**GE45ASM1252**	Price	**GE45ASM1252S**	Price
1/8	1/8	1/2	1-1/2	**GE45ARM1252**	Price	**GE45ARM1252S**	Price
5/32	3/16	5/16	1-1/2	**GE45ASM1562**	Price	**GE45ASM1562S**	Price
3/16	3/16	3/8	1-1/2	**GE45ASM1872**	Price	**GE45ASM1872S**	Price
3/16	3/16	5/8	2	**GE45ARM1872**	Price	**GE45ARM1872S**	Price
1/4	1/4	1/2	2	**GE45ASM2502**	Price	**GE45ASM2502S**	Price
1/4	1/4	3/4	2-1/2	**GE45ARM2502**	Price	**GE45ARM2502S**	Price
5/16	5/16	1/2	2	**GE45ASM3122**	Price	**GE45ASM3122S**	Price
3/8	3/8	5/8	2	**GE45ASM3752**	Price	**GE45ASM3752S**	Price
3/8	3/8	7/8	2-1/2	**GE45ARM3752**	Price	**GE45ARM3752S**	Price
1/2	1/2	5/8	2-1/2	**GE45ASM5002**	Price	**GE45ASM5002S**	Price
1/2	1/2	1	3	**GE45ARM5002**	Price	**GE45ARM5002S**	Price

No. of Flutes - 3							
				Uncoated		ZrN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/4	1/4	3/4	2-1/2	**GE45ARM2503**	Price	**GE45ARM2503S**	Price
5/16	5/16	13/16	2-1/2	**GE45ARM3123**	Price	**GE45ARM3123S**	Price
3/8	3/8	7/8	2-1/2	**GE45ARM3753**	Price	**GE45ARM3753S**	Price
1/2	1/2	1	3	**GE45ARM5003**	Price	**GE45ARM5003S**	Price

WIDIA Solid Carbide AluSurf™ End Mills

2 and 3 Flute



- Center cutting
- Cylindrical shanks
- Unequal flute spacing
- Wiper facet design for improved floor finishes

Flutes - 2						
Size (in.)	Shank Dia. (in.)	Flute Lengtj (in.)	OAL (in.)	Radius (in.)	Order No.	Price
1/4	1/4	1/2	2-1/2	None	**WK403336098**	Price
3/8	3/8	3/4	2-1/2	None	**WK403336102**	Price
1/2	1/2	1-1/4	3	None	**WK403336104**	Price

Flutes - 3						
Size (in.)	Shank Dia. (in.)	Flute Lengtj (in.)	OAL (in.)	Radius (in.)	Order No.	Price
1/4	1/4	1/2	2-1/2	None	**WK403336112**	Price
1/4	1/4	1/2	2-1/2	.060	**WK403738929**	Price
3/8	3/8	3/4	2-1/2	None	**WK403336116**	Price
1/2	1/2	1-1/4	3	None	**WK403336118**	Price
1/2	1/2	1-1/4	3	.030	**WK403336119**	Price
1/2	1/2	1-1/4	3	.090	**WK403739147**	Price
3/4	3/4	1-1/2	4	None	**WK403336122**	Price

EXOCARB® AERO Blizzard® Carbide End Mills

2 Flute • Ball Nose

- Carbide end mills for aluminum, aluminum alloys and copper alloys
- Bright finish
- OSG List #2010



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	1/8	3/8	1-1/2	**TP4820100100**	Price
3/16	3/16	9/16	2	**TP4820100200**	Price
1/4	1/4	3/4	2-1/2	**TP4820100300**	Price
5/16	5/16	13/16	2-1/2	**TP4820100400**	Price
3/8	3/8	1	2-1/2	**TP4820100500**	Price
7/16	7/16	1	2-3/4	**TP4820100600**	Price
1/2	1/2	1-1/4	3	**TP4820100700**	Price
5/8	5/8	1-5/8	3-1/2	**TP4820100800**	Price
3/4	3/4	1-5/8	4	**TP4820100900**	Price
1	1	2	5	**TP4820101000**	Price

IMCO STREAKERS® M202B Solid Carbide 2 Flute Ball End Mills for Aluminum

- For contouring applications in aluminum and non-ferrous materials
- Unequalled in preventing clogging and loading even when slotting at 1xD axial depth
- Unique cutting edge and flute design for aggressive chip evacuation
- Operates effectively in speed ranges from 3,000 to 20,000 rpm
- 40° Helix, round or Weldon shanks



				Round Shank		Weldon	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/4	1/4	3/4	2-1/2	**DD4032980**	Price	**DD4032595**	Price
5/16	5/16	13/16	2-1/2	**DD4032981**	Price	**DD4032596**	Price
3/8	3/8	1	2-1/2	**DD4032982**	Price	**-**	-
3/8	3/8	7/8	2-1/2	**-**	-	**DD4032597**	Price
1/2	1/2	1-1/4	3	**DD4032983**	Price	**-**	-
1/2	1/2	1-1/4	3-1/4	**-**	-	**DD4032598**	Price
5/8	5/8	1-1/4	3-1/2	**-**	-	**DD4032599**	Price
5/8	5/8	1-5/8	3-1/2	**DD4032984**	Price	**-**	-
3/4	3/4	1-5/8	4	**DD4032985**	Price	**DD4032608**	Price

MONSTER TOOL COMPANY 2 Flute Ball Nose 45° Carbide End Mills for Aluminum

- For use in aluminum and other non-ferrous materials



				Uncoated		ZrN	
Dia. (in.)	Shank	LOC	OAL	Order No.	Price	Order No.	Price
1/8	1/8	1/2	1-1/2	**DC1030001**	Price	**DC1040001**	Price
3/16	3/16	5/8	2	**DC1030003**	Price	**DC1040003**	Price
7/32	1/4	3/4	2-1/2	**DC1030004**	Price	**DC1040004**	Price
1/4	1/4	3/4	2-1/2	**DC1030005**	Price	**DC1040005**	Price
5/16	5/16	13/16	2-1/2	**DC1030006**	Price	**DC1040006**	Price
3/8	3/8	1-1/8	2-1/2	**DC1030007**	Price	**DC1040007**	Price
7/16	7/16	1-1/4	2-3/4	**DC1030008**	Price	**DC1040008**	Price
1/2	1/2	1-1/4	3	**DC1030009**	Price	**DC1040009**	Price
5/8	5/8	1-5/8	3-1/2	**DC1030010**	Price	**DC1040010**	Price
3/4	3/4	1-3/4	4	**DC1030011**	Price	**DC1040011**	Price
1	1	1-3/4	4	**DC1030012**	Price	**DC1040012**	Price

Additional sizes available

RAPIDKUT® 3 Flute Solid Carbide Aluminum Cutting End Mills

Center Cutting • Standard and Long Lengths



- 3 Flute design for lighter finishing cuts
- Small corner radius for added strength and smoother cutting action
- Made from premium submicron grain carbide
- 35° Helix
- Tolerances: +.000/-.002”

					Uncoated		TiN		TiCN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	3/8	1-1/2	.005	**DD8117764**	Price	**DD8127764**	Price	**DD8147764**	Price
3/16	3/16	5/8	2	.005	**DD8117766**	Price	**DD8127766**	Price	**DD8147766**	Price
1/4	1/4	3/4	2-1/2	.005	**DD8117768**	Price	**DD8127768**	Price	**DD8147768**	Price
1/4	1/4	1-1/8	3	.005	**DD8117782**	Price	**DD8127782**	Price	**DD8147782**	Price
5/16	5/16	13/16	2-1/2	.005	**DD8117770**	Price	**DD8127770**	Price	**DD8147770**	Price
5/16	5/16	1-1/8	3	.005	**DD8117783**	Price	**DD8127783**	Price	**DD8147783**	Price
3/8	3/8	1	2-1/2	.005	**DD8117772**	Price	**DD8127772**	Price	**DD8147772**	Price
3/8	3/8	1-1/8	3	.005	**DD8117784**	Price	**DD8127784**	Price	**DD8147784**	Price
7/16	7/16	1	2-3/4	.005	**DD8117774**	Price	**DD8127774**	Price	**DD8147774**	Price
1/2	1/2	1-1/4	3	.005	**DD8117776**	Price	**DD8127776**	Price	**DD8147776**	Price
1/2	1/2	1-1/2	4	.005	**DD8110811**	Price	**DD8120811**	Price	**DD8140811**	Price
1/2	1/2	2	4	.005	**DD8117786**	Price	**DD8127786**	Price	**DD8147786**	Price
5/8	5/8	1-5/8	3-1/2	.005	**DD8117778**	Price	**DD8127778**	Price	**DD8147778**	Price
5/8	5/8	2-1/4	5	.005	**DD8117787**	Price	**DD8127787**	Price	**DD8147787**	Price
3/4	3/4	1-5/8	4	.005	**DD8117779**	Price	**DD8127779**	Price	**DD8147779**	Price
3/4	3/4	2-1/4	5	.005	**DD8117788**	Price	**DD8127788**	Price	**DD8147788**	Price
1	1	1-1/2	4	.005	**DD8117781**	Price	**DD8127781**	Price	**DD8147781**	Price
1	1	2-1/4	5	.005	**DD8117789**	Price	**DD8127789**	Price	**DD8147789**	Price

MONSTER TOOL COMPANY 3 Flute High Performance Carbide End Mills for Aluminum

- 42° Helix
- Square end
- Specifically designed for maximum productivity in aluminum and non-ferrous materials
- Premium sub-micron carbide with 10% cobalt
- Right hand spiral, right hand cut
- Diameter tolerance +.000 / -.002”





				Uncoated		ZrN	
Size (in.)	Shank Dia. (in.)	LOC (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/8	1/8	1/2	1-1/2	**DC30273125500**	Price	**DC30273125500D**	Price
1/8	1/8	1-1/8	3	**DC30273126112**	Price	**DC30273126112D**	Price
3/16	3/16	5/8	2	**DC30273187625**	Price	**DC30273187625D**	Price
3/16	3/16	1-1/8	3	**DC30273188112**	Price	**DC30273188112D**	Price
1/4	1/4	3/4	2-1/2	**DC30273250750**	Price	**DC30273250750D**	Price
1/4	1/4	1-1/4	3	**DC30273251500**	Price	**DC30273251500D**	Price
1/4	1/4	2	4	**DC30273252000**	Price	**DC30273252000D**	Price
5/16	5/16	13/16	2-1/2	**DC30273312812**	Price	**DC30273312812D**	Price
5/16	5/16	1-3/8	3	**DC30273313375**	Price	**DC30273313375D**	Price
5/16	5/16	2	4	**DC30273314000**	Price	**DC30273314000D**	Price
3/8	3/8	1-1/8	2-1/2	**DC30273371125**	Price	**DC30273371125D**	Price
3/8	3/8	1-3/8	3	**DC30273371375**	Price	**DC30273371375D**	Price
3/8	3/8	2	4	**DC30273372000**	Price	**DC30273372000D**	Price
3/8	3/8	3	6	**DC30273373000**	Price	**DC30273373000D**	Price
7/16	7/16	1-1/4	2-3/4	**DC30273431250**	Price	**DC30273431250D**	Price
1/2	1/2	1-1/4	3	**DC30273501250**	Price	**DC30273501250D**	Price
1/2	1/2	2	4	**DC30273502000**	Price	**DC30273502000D**	Price
1/2	1/2	3-1/8	6	**DC30273503125**	Price	**DC30273503125D**	Price
5/8	5/8	1-5/8	3-1/2	**DC30273621625**	Price	**DC30273621625D**	Price
5/8	5/8	2-1/2	5	**DC30273622500**	Price	**DC30273622500D**	Price
5/8	5/8	3-1/8	6	**DC30273623125**	Price	**DC30273623125D**	Price
3/4	3/4	1-3/4	4	**DC30273751750**	Price	**DC30273751750D**	Price
3/4	3/4	2-1/2	5	**DC30273752500**	Price	**DC30273752500D**	Price
3/4	3/4	3-1/4	6	**DC30273753250**	Price	**DC30273753250D**	Price
1	1	1-3/4	4	**DC30273911750**	Price	**DC30273911750D**	Price
1	1	2-5/8	5	**DC30273912625**	Price	**DC30273912625D**	Price
1	1	3-1/4	6	**DC30273913250**	Price	**DC30273913250D**	Price

STREAKERS® M203 Solid Carbide Square and Corner Radius End Mills for Aluminum

- 3 Flute design for excellent surface finish
- Unique cutting edge and flute design are engineered for aggressive chip evacuation
- Operates effectively in speed ranges off 3,000 to 20,000 rpm
- Round & Weldon shanks
- 45° Helix, uncoated



MADE IN THE USA

					.030		None		.015	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Shank Type	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	3/8	1-1/2	Round Shank	-	-	**DD4033246**	Price	**DD4034384**	Price
3/16	3/16	9/16	2	Round Shank	-	-	**DD4033248**	Price	**DD4034385**	Price
1/4	1/4	3/4	2-1/2	Round Shank	**DD4034388**	Price	**DD4032992**	Price	**DD4034386**	Price
1/4	1/4	3/8	2-1/2	Round Shank	-	-	**DD4032986**	Price	-	-
1/4	1/4	3/4	2-1/2	Weldon Shank	-	-	**DD4032634**	Price	-	-
1/4	1/4	1-1/4	3	Round Shank	**DD4034438**	Price	**DD4033009**	Price	**DD4034435**	Price
1/4	1/4	1-1/4	3	Weldon Shank	-	-	**DD4033011**	Price	-	-
5/16	5/16	13/16	2-1/2	Round Shank	-	-	**DD4033250**	Price	-	-
3/8	3/8	1/2	2-1/2	Round Shank	-	-	**DD4032988**	Price	-	-
3/8	3/8	1	2-1/2	Weldon Shank	-	-	**DD4032635**	Price	-	-
3/8	3/8	1	2-1/2	Round Shank	**DD4034460**	Price	**DD4032993**	Price	**DD4034458**	Price
3/8	3/8	1-1/2	3-1/4	Round Shank	**DD4034480**	Price	**DD4032998**	Price	**DD4034462**	Price
3/8	3/8	1-1/2	3-1/4	Weldon Shank	-	-	**DD4032702**	Price	-	-
3/8	3/8	2	4	Round Shank	-	-	**DD4033003**	Price	-	-
1/2	1/2	5/8	3	Round Shank	-	-	**DD4032989**	Price	-	-
1/2	1/2	1-1/4	3	Round Shank	**DD4034522**	Price	**DD4032994**	Price	**DD4034492**	Price
1/2	1/2	1-1/4	3-1/4	Weldon Shank	-	-	**DD4032637**	Price	-	-
1/2	1/2	2	4	Round Shank	**DD4034534**	Price	**DD4032999**	Price	-	-
1/2	1/2	2	4	Weldon Shank	-	-	**DD4032703**	Price	-	-
1/2	1/2	2-1/2	5	Round Shank	-	-	**DD4033004**	Price	-	-
1/2	1/2	3-1/8	6	Round Shank	-	-	**DD4033013**	Price	-	-
5/8	5/8	1-5/8	3-1/2	Weldon Shank	-	-	**DD4032638**	Price	-	-
5/8	5/8	1-5/8	3-1/2	Round Shank	**DD4034545**	Price	**DD4032995**	Price	-	-
5/8	5/8	2-1/2	5	Round Shank	**DD4034549**	Price	-	-	-	-
5/8	5/8	2-1/2	5	Weldon Shank	-	-	**DD4032720**	Price	-	-
3/4	3/4	1	4	Round Shank	**DD4033611**	Price	**DD4032991**	Price	-	-
3/4	3/4	1-5/8	4	Round Shank	**DD4034553**	Price	**DD4032996**	Price	-	-
3/4	3/4	1-5/8	4	Weldon Shank	-	-	**DD4032639**	Price	-	-
3/4	3/4	2-1/2	5	Round Shank	**DD4034558**	Price	**DD4033001**	Price	-	-
3/4	3/4	2-1/2	5	Weldon Shank	-	-	**DD4032704**	Price	-	-
3/4	3/4	3-1/4	6	Round Shank	**DD4034560**	Price	**DD4033007**	Price	-	-
1	1	1-1/4	4	Round Shank	-	-	**DD4033137**	Price	-	-
1	1	2	4	Round Shank	-	-	**DD4032997**	Price	-	-
1	1	2	4	Weldon Shank	-	-	**DD4032701**	Price	-	-
1	1	2-5/8	5	Round Shank	-	-	**DD4033002**	Price	-	-
1	1	2-5/8	5	Weldon Shank	-	-	**DD4032714**	Price	-	-
1	1	3-1/4	6	Round Shank	-	-	**DD4033008**	Price	-	-
1	1	3-1/4	6	Weldon Shank	-	-	**DD4032726**	Price	-	-

STREAKERS® M223 Solid Carbide
3 Flute Square and Corner Radius End Mills for Aluminum



Best in Aluminum and Non-ferrous

- For high performance machining in aluminum alloys
- Improved floor and wall finishes, better ramping abililty and longer tool life
- Unique grinds curl and evacuate gummy aluminum chips, allowing high feed rates without chip packing
- Excellent for roughing and finishing

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Shank Style	Order No.	Price
1/8	1/8	1/4	1-1/2	None	Round	**DD4061000**	Price
1/8	1/8	3/8	1-1/2	None	Round	**DD4061001**	Price
1/8	1/8	3/8	1-1/2	.015	Round	**DD4061002**	Price
1/8	1/8	1/2	2	None	Round	**DD4061004**	Price
3/16	3/16	5/16	2	None	Round	**DD4061005**	Price
3/16	3/16	9/16	2	None	Round	**DD4061006**	Price
3/16	3/16	9/16	2	.015	Round	**DD4061007**	Price
3/16	3/16	3/4	2-1/2	None	Round	**DD4061009**	Price
1/4	1/4	1/2	2	None	Round	**DD4061010**	Price
1/4	1/4	1/2	2	.015	Round	**DD4061011**	Price
1/4	1/4	3/4	2-1/2	None	Round	**DD4061012**	Price
1/4	1/4	3/4	2-1/2	.015	Round	**DD4061013**	Price
1/4	1/4	3/4	2-1/2	.030	Round	**DD4061014**	Price
1/4	1/4	1	3	None	Round	**DD4061016**	Price
1/4	1/4	1	3	.015	Round	**DD4061017**	Price
1/4	1/4	1	3	.030	Round	**DD4061018**	Price
5/16	5/16	15/16	2-1/2	None	Round	**DD4061019**	Price
5/16	5/16	15/16	2-1/2	.015	Round	**DD4061020**	Price
5/16	5/16	15/16	2-1/2	.030	Round	**DD4061021**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Shank Style	Order No.	Price
5/16	5/16	1-3/8	3	None	Round	**DD4061022**	Price
3/8	3/8	1/2	2	None	Round	**DD4061023**	Price
3/8	3/8	1/2	2	.015	Round	**DD4061024**	Price
3/8	3/8	15/16	2-1/2	None	Round	**DD4061025**	Price
3/8	3/8	15/16	2-1/2	None	Weldon	**DD4061095**	Price
3/8	3/8	15/16	2-1/2	.015	Round	**DD4061026**	Price
3/8	3/8	15/16	2-1/2	.030	Round	**DD4061027**	Price
3/8	3/8	15/16	2-1/2	.060	Round	**DD4061028**	Price
3/8	3/8	1-1/8	3	None	Round	**DD4061030**	Price
3/8	3/8	1-1/8	3	.015	Round	**DD4061031**	Price
3/8	3/8	1-1/8	3	.030	Round	**DD4061032**	Price
3/8	3/8	1-1/8	3	.060	Round	**DD4061033**	Price
3/8	3/8	1-1/2	3-1/2	None	Round	**DD4061034**	Price
3/8	3/8	1-1/2	3-1/2	None	Weldon	**DD4061096**	Price
3/8	3/8	1-1/2	3-1/2	.015	Round	**DD4061035**	Price
3/8	3/8	1-1/2	3-1/2	.030	Round	**DD4061036**	Price
3/8	3/8	1-1/2	3-1/2	.060	Round	**DD4061037**	Price
3/8	3/8	2	4	None	Round	**DD4061038**	Price
1/2	1/2	5/8	2-1/2	None	Round	**DD4061039**	Price

(continued on next page)

STREAKERS® M223 Solid Carbide (cont.)





Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Shank Style	Order No.	Price
1/2	1/2	5/8	2-1/2	.030	Round	**DD4061040**	Price
1/2	1/2	5/8	3	None	Round	**DD4061041**	Price
1/2	1/2	5/8	3	.030	Round	**DD4061042**	Price
1/2	1/2	5/8	3	.125	Round	**DD4061043**	Price
1/2	1/2	1	3	None	Round	**DD4061044**	Price
1/2	1/2	1	3	None	Weldon	**DD4061097**	Price
1/2	1/2	1	3	.015	Round	**DD4061045**	Price
1/2	1/2	1	3	.030	Round	**DD4061046**	Price
1/2	1/2	1	3	.060	Round	**DD4061047**	Price
1/2	1/2	1	3	.125	Round	**DD4061048**	Price
1/2	1/2	1-1/4	3	None	Round	**DD4061050**	Price
1/2	1/2	1-1/4	3	.015	Round	**DD4061051**	Price
1/2	1/2	1-1/4	3	.030	Round	**DD4061052**	Price
1/2	1/2	1-1/4	3	.060	Round	**DD4061053**	Price
1/2	1/2	1-1/4	3	.125	Round	**DD4061054**	Price
1/2	1/2	1-1/2	3-1/2	None	Round	**DD4061055**	Price
1/2	1/2	1-1/2	3-1/2	None	Weldon	**DD4061098**	Price
1/2	1/2	1-1/2	3-1/2	.030	Round	**DD4061056**	Price
1/2	1/2	1-1/2	3-1/2	.060	Round	**DD4061057**	Price
1/2	1/2	1-1/2	3-1/2	.125	Round	**DD4061058**	Price
1/2	1/2	2	4	None	Round	**DD4061059**	Price
1/2	1/2	2	4	None	Weldon	**DD4061099**	Price
1/2	1/2	2	4	.015	Round	**DD4061060**	Price
1/2	1/2	2	4	.030	Round	**DD4061061**	Price
1/2	1/2	2	4	.060	Round	**DD4061062**	Price
1/2	1/2	2	4	.125	Round	**DD4061063**	Price
1/2	1/2	2-1/2	5	None	Round	**DD4061064**	Price
1/2	1/2	2-1/2	5	.030	Round	**DD4061065**	Price
5/8	5/8	1-1/4	3-1/2	None	Round	**DD4061066**	Price
5/8	5/8	1-1/4	3-1/2	.030	Round	**DD4061067**	Price
5/8	5/8	1-1/4	3-1/2	.125	Round	**DD4061068**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Shank Style	Order No.	Price
5/8	5/8	1-7/8	4	None	Round	**DD4061069**	Price
5/8	5/8	1-7/8	4	None	Weldon	**DD4061100**	Price
5/8	5/8	1-7/8	4	.030	Round	**DD4061070**	Price
5/8	5/8	1-7/8	4	.125	Round	**DD4061071**	Price
5/8	5/8	2-1/2	5	None	Round	**DD4061073**	Price
5/8	5/8	2-1/2	5	.030	Round	**DD4061074**	Price
3/4	3/4	1-5/8	4	None	Round	**DD4061075**	Price
3/4	3/4	1-5/8	4	None	Weldon	**DD4061101**	Price
3/4	3/4	1-5/8	4	.030	Round	**DD4061076**	Price
3/4	3/4	1-5/8	4	.060	Round	**DD4061077**	Price
3/4	3/4	1-5/8	4	.125	Round	**DD4061078**	Price
3/4	3/4	2-1/4	5	None	Round	**DD4061080**	Price
3/4	3/4	2-1/4	5	None	Weldon	**DD4061102**	Price
3/4	3/4	2-1/4	5	.030	Round	**DD4061081**	Price
3/4	3/4	2-1/4	5	.060	Round	**DD4061082**	Price
3/4	3/4	2-1/4	5	.125	Round	**DD4061083**	Price
3/4	3/4	3-1/4	6	None	Round	**DD4061084**	Price
3/4	3/4	3-1/4	6	None	Weldon	**DD4061103**	Price
3/4	3/4	3-1/4	6	.030	Round	**DD4061085**	Price
3/4	3/4	3-1/4	6	.125	Round	**DD4061086**	Price
1	1	1-1/4	4	None	Round	**DD4061087**	Price
1	1	1-1/4	4	.030	Round	**DD4061088**	Price
1	1	2	5	None	Round	**DD4061089**	Price
1	1	2	5	None	Weldon	**DD4061104**	Price
1	1	2	5	.030	Round	**DD4061090**	Price
1	1	3-1/4	6	None	Round	**DD4061091**	Price
1	1	3-1/4	6	None	Weldon	**DD4061105**	Price
1	1	3-1/4	6	.030	Round	**DD4061092**	Price
1	1	4-1/4	7	None	Round	**DD4061093**	Price
1	1	4-1/4	7	.030	Round	**DD4061094**	Price

STREAKERS® M223 Solid Carbide 3 Flute Square and Corner Radius End Mills for Aluminum



- For high performance machining in aluminum alloys
- Improved floor and wall finishes, better ramping abililty and longer tool life
- Unique grinds curl and evacuate gummy aluminum chips, allowing high feed rates without chip packing
- Excellent for roughing and finishing

Size	Shank Dia.	Flute Length	OAL	Radius	Order No.	Price
3mm	3mm	9mm	38mm	None	**DD4061220**	Price
3mm	3mm	9mm	38mm	0.3mm	**DD4061221**	Price
4mm	4mm	12mm	50mm	None	**DD4061223**	Price
4mm	4mm	12mm	50mm	0.3mm	**DD4061224**	Price
5mm	5mm	15mm	50mm	None	**DD4061226**	Price
5mm	5mm	15mm	50mm	0.3mm	**DD4061227**	Price
6mm	6mm	13mm	57mm	None	**DD4061229**	Price
6mm	6mm	13mm	57mm	0.3mm	**DD4061230**	Price
6mm	6mm	13mm	57mm	0.5mm	**DD4061231**	Price
6mm	6mm	13mm	57mm	1.0mm	**DD4061232**	Price
6mm	6mm	18mm	63mm	None	**DD4061234**	Price
6mm	6mm	18mm	63mm	0.5mm	**DD4061235**	Price
6mm	6mm	18mm	63mm	1.0mm	**DD4061236**	Price
6mm	6mm	24mm	75mm	None	**DD4061237**	Price
6mm	6mm	24mm	75mm	0.5mm	**DD4061238**	Price
6mm	6mm	24mm	75mm	1.0mm	**DD4061239**	Price
8mm	8mm	20mm	63mm	None	**DD4061240**	Price
8mm	8mm	20mm	63mm	0.5mm	**DD4061241**	Price
8mm	8mm	20mm	63mm	1.0mm	**DD4061242**	Price
8mm	8mm	32mm	75mm	None	**DD4061244**	Price
8mm	8mm	32mm	75mm	0.5mm	**DD4061245**	Price
8mm	8mm	32mm	75mm	1.0mm	**DD4061246**	Price
10mm	10mm	20mm	66mm	None	**DD4061247**	Price
10mm	10mm	20mm	66mm	0.3mm	**DD4061248**	Price
10mm	10mm	22mm	72mm	None	**DD4061249**	Price
10mm	10mm	22mm	72mm	0.3mm	**DD4061250**	Price
10mm	10mm	25mm	72mm	None	**DD4061251**	Price
10mm	10mm	25mm	72mm	0.3mm	**DD4061252**	Price
10mm	10mm	25mm	72mm	0.5mm	**DD4061253**	Price
10mm	10mm	25mm	72mm	1.0mm	**DD4061254**	Price

Size	Shank Dia.	Flute Length	OAL	Radius	Order No.	Price
10mm	10mm	25mm	72mm	1.5mm	**DD4061255**	Price
10mm	10mm	30mm	75mm	None	**DD4061257**	Price
10mm	10mm	30mm	75mm	0.5mm	**DD4061258**	Price
10mm	10mm	30mm	75mm	1.0mm	**DD4061259**	Price
10mm	10mm	30mm	75mm	1.5mm	**DD4061260**	Price
10mm	10mm	40mm	88mm	None	**DD4061261**	Price
10mm	10mm	40mm	88mm	0.5mm	**DD4061262**	Price
10mm	10mm	40mm	88mm	1.0mm	**DD4061263**	Price
10mm	10mm	40mm	88mm	1.5mm	**DD4061264**	Price
12mm	12mm	24mm	73mm	None	**DD4061265**	Price
12mm	12mm	24mm	73mm	0.3mm	**DD4061266**	Price
12mm	12mm	26mm	83mm	None	**DD4061267**	Price
12mm	12mm	26mm	83mm	0.3mm	**DD4061268**	Price
12mm	12mm	26mm	83mm	0.5mm	**DD4061269**	Price
12mm	12mm	26mm	83mm	1.0mm	**DD4061270**	Price
12mm	12mm	26mm	83mm	1.5mm	**DD4061271**	Price
12mm	12mm	26mm	83mm	2.0mm	**DD4061272**	Price
12mm	12mm	26mm	83mm	3.0mm	**DD4061273**	Price
12mm	12mm	30mm	83mm	None	**DD4061274**	Price
12mm	12mm	30mm	83mm	0.5mm	**DD4061275**	Price
12mm	12mm	30mm	83mm	1.0mm	**DD4061276**	Price
12mm	12mm	30mm	83mm	1.5mm	**DD4061277**	Price
12mm	12mm	30mm	83mm	2.0mm	**DD4061278**	Price
12mm	12mm	30mm	83mm	3.0mm	**DD4061279**	Price
12mm	12mm	36mm	88mm	None	**DD4061281**	Price
12mm	12mm	36mm	88mm	0.5mm	**DD4061282**	Price
12mm	12mm	36mm	88mm	1.0mm	**DD4061283**	Price
12mm	12mm	36mm	88mm	1.5mm	**DD4061284**	Price
12mm	12mm	36mm	88mm	3.0mm	**DD4061285**	Price
12mm	12mm	48mm	100mm	None	**DD4061286**	Price

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STREAKERS® M223 Solid Carbide 3 Flute Square and Corner Radius End Mills for Aluminum (cont.)



Size	Shank Dia.	Flute Length	OAL	Radius	Order No.	Price
12mm	12mm	48mm	100mm	0.5mm	**DD4061287**	Price
12mm	12mm	48mm	100mm	1.0mm	**DD4061288**	Price
12mm	12mm	48mm	100mm	1.5mm	**DD4061289**	Price
12mm	12mm	48mm	100mm	2.0mm	**DD4061290**	Price
12mm	12mm	48mm	100mm	3.0mm	**DD4061291**	Price
16mm	16mm	32mm	92mm	None	**DD4061292**	Price
16mm	16mm	32mm	92mm	0.5mm	**DD4061293**	Price
16mm	16mm	32mm	92mm	1.0mm	**DD4061294**	Price
16mm	16mm	32mm	92mm	1.5mm	**DD4061295**	Price
16mm	16mm	32mm	92mm	2.0mm	**DD4061296**	Price
16mm	16mm	32mm	92mm	3.0mm	**DD4061297**	Price
16mm	16mm	48mm	110mm	None	**DD4061299**	Price
16mm	16mm	48mm	110mm	1.0mm	**DD4061300**	Price
16mm	16mm	48mm	110mm	1.5mm	**DD4061301**	Price
16mm	16mm	48mm	110mm	2.0mm	**DD4061302**	Price
16mm	16mm	48mm	110mm	3.0mm	**DD4061303**	Price
16mm	16mm	64mm	125mm	None	**DD4061304**	Price
16mm	16mm	64mm	125mm	1.0mm	**DD4061305**	Price
16mm	16mm	64mm	125mm	1.5mm	**DD4061306**	Price

Size	Shank Dia.	Flute Length	OAL	Radius	Order No.	Price
16mm	16mm	64mm	125mm	2.0mm	**DD4061307**	Price
16mm	16mm	64mm	125mm	3.0mm	**DD4061308**	Price
20mm	20mm	40mm	104mm	None	**DD4061309**	Price
20mm	20mm	40mm	104mm	1.0mm	**DD4061310**	Price
20mm	20mm	40mm	104mm	1.5mm	**DD4061311**	Price
20mm	20mm	40mm	104mm	2.0mm	**DD4061312**	Price
20mm	20mm	40mm	104mm	3.0mm	**DD4061313**	Price
20mm	20mm	60mm	125mm	None	**DD4061315**	Price
20mm	20mm	60mm	125mm	1.0mm	**DD4061316**	Price
20mm	20mm	60mm	125mm	1.5mm	**DD4061317**	Price
20mm	20mm	60mm	125mm	2.0mm	**DD4061318**	Price
20mm	20mm	60mm	125mm	3.0mm	**DD4061319**	Price
20mm	20mm	80mm	150mm	None	**DD4061320**	Price
20mm	20mm	80mm	150mm	1.0mm	**DD4061321**	Price
20mm	20mm	80mm	150mm	1.5mm	**DD4061322**	Price
20mm	20mm	80mm	150mm	2.0mm	**DD4061323**	Price
20mm	20mm	80mm	150mm	3.0mm	**DD4061324**	Price
25mm	25mm	50mm	125mm	None	**DD4061325**	Price

RAPIDKUT® 3 Flute Solid Carbide End Mills



For Aluminum

- Square end
- 36° Helix
- Center cutting
- Cutter diameter tolerance: +.0000 / -.0005”

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Shank Type	Order No.	Price
1/8	1/8	1/2	1-1/2	Round	**PE1230125**	Price
3/16	3/16	5/8	2	Round	**PE1230187**	Price
1/4	1/4	1/2	2-1/2	Round	**PE1230250**	Price
1/4	1/4	1	2-1/2	Round	**PE1230255**	Price
1/4	1/4	1	2-1/2	Weldon	**PE1230260**	Price
1/4	1/4	1-1/4	3	Round	**PE1230265**	Price
5/16	5/16	1	2-1/2	Round	**PE1230312**	Price
3/8	3/8	5/8	2-1/2	Round	**PE1230375**	Price
3/8	3/8	1	2-1/2	Round	**PE1230380**	Price
3/8	3/8	1	2-1/2	Weldon	**PE1230385**	Price
3/8	3/8	1-1/2	3-1/4	Round	**PE1230390**	Price
3/8	3/8	2	4	Round	**PE1230400**	Price
1/2	1/2	3/4	3	Round	**PE1230500**	Price
1/2	1/2	1-1/4	3	Round	**PE1230505**	Price
1/2	1/2	1-1/4	3-1/4	Weldon	**PE1230510**	Price
1/2	1/2	2	4	Round	**PE1230515**	Price
1/2	1/2	2-1/2	5	Round	**PE1230520**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Shank Type	Order No.	Price
1/2	1/2	3-1/4	6	Round	**PE1230525**	Price
5/8	5/8	1	3-1/2	Round	**PE1230625**	Price
5/8	5/8	1-5/8	3-1/2	Round	**PE1230630**	Price
5/8	5/8	1-5/8	3-1/2	Weldon	**PE1230635**	Price
5/8	5/8	2-1/2	5	Weldon	**PE1230640**	Price
5/8	5/8	3-1/4	6	Round	**PE1230645**	Price
5/8	5/8	3-1/4	6	Weldon	**PE1230650**	Price
3/4	3/4	1	4	Round	**PE1230750**	Price
3/4	3/4	1-3/4	4	Round	**PE1230755**	Price
3/4	3/4	2-1/2	5	Round	**PE1230760**	Price
3/4	3/4	3-1/4	6	Round	**PE1230765**	Price
3/4	3/4	4	6-1/2	Round	**PE1230770**	Price
1	1	1-1/4	4	Round	**PE1231000**	Price
1	1	1-3/4	4	Round	**PE1231005**	Price
1	1	2-1/2	5	Round	**PE1231010**	Price
1	1	3-1/4	6	Round	**PE1231015**	Price
1	1	3-1/4	6	Weldon	**PE1231020**	Price

STREAKERS® M223N Solid Carbide 3 Flute End Mills with Neck Relief

Square or Corner Radius



Best in Aluminum and Non-ferrous

- For high performance machining in aluminum alloys
- Adding a necked shank to the M223 design offers a high performance tool that can reach deep cavities while minimizing tool deflection
- ZrN coating helps reduce chip packing even in heavy tool engagement cuts

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	Reach LBS	Radius (in.)	OAL (in.)	Order No.	Price
1/8	1/8	1/4	3/4	None	2-1/2	**DD4061122**	Price
1/8	1/8	1/4	3/4	.015	2-1/2	**DD4061123**	Price
1/8	1/8	1/4	1	None	3	**DD4061125**	Price
1/8	1/8	1/4	1	.015	3	**DD4061126**	Price
3/16	3/16	1/4	3/4	None	2-1/2	**DD4061128**	Price
3/16	3/16	1/4	3/4	.015	2-1/2	**DD4061129**	Price
3/16	3/16	1/4	1	None	3	**DD4061131**	Price
3/16	3/16	1/4	1	.015	3	**DD4061132**	Price
1/4	1/4	3/8	7/8	None	2-1/2	**DD4061134**	Price
1/4	1/4	3/8	7/8	.015	2-1/2	**DD4061135**	Price
1/4	1/4	3/8	7/8	.030	2-1/2	**DD4061136**	Price
1/4	1/4	3/8	1-3/8	None	3	**DD4061138**	Price
1/4	1/4	3/8	1-3/8	.015	3	**DD4061139**	Price
1/4	1/4	3/8	1-3/8	.030	3	**DD4061140**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	Reach LBS	Radius (in.)	OAL (in.)	Order No.	Price
1/4	1/4	3/8	2-1/4	None	4	**DD4061142**	Price
1/4	1/4	3/8	2-1/4	.015	4	**DD4061143**	Price
1/4	1/4	3/8	2-1/4	.030	4	**DD4061144**	Price
3/8	3/8	1/2	1-1/8	None	2-1/2	**DD4061146**	Price
3/8	3/8	1/2	1-1/8	.015	2-1/2	**DD4061147**	Price
3/8	3/8	1/2	1-1/8	.030	2-1/2	**DD4061148**	Price
3/8	3/8	1/2	1-1/8	.060	2-1/2	**DD4061149**	Price
3/8	3/8	1/2	1-1/4	None	3	**DD4061151**	Price
3/8	3/8	1/2	1-1/4	.015	3	**DD4061152**	Price
3/8	3/8	1/2	1-1/4	.030	3	**DD4061153**	Price
3/8	3/8	1/2	1-1/4	.060	3	**DD4061154**	Price
3/8	3/8	1/2	2-1/4	None	4	**DD4061156**	Price
3/8	3/8	1/2	2-1/4	.015	4	**DD4061157**	Price
3/8	3/8	1/2	2-1/4	.030	4	**DD4061158**	Price

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STREAKERS® M223N Solid Carbide 3 Flute End Mills with Neck Relief (cont.)

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	Reach LBS	Radius (in.)	OAL (in.)	Order No.	Price
1/2	1/2	5/8	1-3/8	None	3	**DD4061160**	Price
1/2	1/2	5/8	1-3/8	.015	3	**DD4061161**	Price
1/2	1/2	5/8	1-3/8	.030	3	**DD4061162**	Price
1/2	1/2	5/8	1-3/8	.060	3	**DD4061163**	Price
1/2	1/2	5/8	1-3/8	.125	3	**DD4061164**	Price
1/2	1/2	5/8	2-1/4	None	4	**DD4061166**	Price
1/2	1/2	5/8	2-1/4	.015	4	**DD4061167**	Price
1/2	1/2	5/8	2-1/4	.030	4	**DD4061168**	Price
1/2	1/2	5/8	2-1/4	.060	4	**DD4061169**	Price
1/2	1/2	5/8	2-1/4	.125	4	**DD4061170**	Price
1/2	1/2	5/8	3-1/4	None	5	**DD4061172**	Price
1/2	1/2	5/8	3-1/4	.015	5	**DD4061173**	Price
1/2	1/2	5/8	3-1/4	.030	5	**DD4061174**	Price
1/2	1/2	5/8	3-1/4	.060	5	**DD4061175**	Price
1/2	1/2	5/8	3-1/4	.125	5	**DD4061176**	Price
1/2	1/2	5/8	4-1/4	None	6	**DD4061178**	Price
1/2	1/2	5/8	4-1/4	.015	6	**DD4061179**	Price
1/2	1/2	5/8	4-1/4	.030	6	**DD4061180**	Price
1/2	1/2	5/8	4-1/4	.060	6	**DD4061181**	Price
1/2	1/2	5/8	4-1/4	.125	6	**DD4061182**	Price
5/8	5/8	3/4	1-3/4	None	4	**DD4061184**	Price
5/8	5/8	3/4	1-3/4	.030	4	**DD4061185**	Price
5/8	5/8	3/4	1-3/4	.125	4	**DD4061186**	Price
5/8	5/8	3/4	2-3/8	None	5	**DD4061188**	Price
5/8	5/8	3/4	2-3/8	.030	5	**DD4061189**	Price
5/8	5/8	3/4	2-3/8	.125	5	**DD4061190**	Price



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	Reach LBS	Radius (in.)	OAL (in.)	Order No.	Price
5/8	5/8	3/4	3-3/8	None	6	**DD4061192**	Price
5/8	5/8	3/4	3-3/8	.030	6	**DD4061193**	Price
5/8	5/8	3/4	3-3/8	.125	6	**DD4061194**	Price
3/4	3/4	1	1-3/4	None	4	**DD4061196**	Price
3/4	3/4	1	1-3/4	.030	4	**DD4061197**	Price
3/4	3/4	1	1-3/4	.060	4	**DD4061198**	Price
3/4	3/4	1	1-3/4	.125	4	**DD4061199**	Price
3/4	3/4	1	2-3/8	None	5	**DD4061201**	Price
3/4	3/4	1	2-3/8	.030	5	**DD4061202**	Price
3/4	3/4	1	2-3/8	.060	5	**DD4061203**	Price
3/4	3/4	1	2-3/8	.125	5	**DD4061204**	Price
3/4	3/4	1	3-3/8	None	6	**DD4061206**	Price
3/4	3/4	1	3-3/8	.030	6	**DD4061207**	Price
3/4	3/4	1	3-3/8	.060	6	**DD4061208**	Price
3/4	3/4	1	3-3/8	.125	6	**DD4061209**	Price
1	1	1-1/4	2-5/8	None	5	**DD4061211**	Price
1	1	1-1/4	2-5/8	.030	5	**DD4061212**	Price
1	1	1-1/4	3-3/8	None	6	**DD4061214**	Price
1	1	1-1/4	3-3/8	.030	6	**DD4061215**	Price
1	1	1-1/4	4-3/8	None	7	**DD4061217**	Price
1	1	1-1/4	4-3/8	.030	7	**DD4061218**	Price

STREAKERS® M223N Solid Carbide 3 Flute End Mills with Neck Relief

Square or Corner Radius

- For high performance machining in aluminum alloys
- Adding a necked shank to the M223 design offers a high performance tool that can reach deep cavities while minimizing tool deflection
- ZrN coating helps reduce chip packing even in heavy tool engagement cuts



N Best in Aluminum and Non-ferrous

Size	Shank Dia.	Flute Length	Reach LBS	Radius	OAL	Order No.	Price
6mm	6mm	9mm	18mm	None	63mm	**DD4061342**	Price
6mm	6mm	9mm	18mm	0.3mm	63mm	**DD4061343**	Price
6mm	6mm	9mm	18mm	0.5mm	63mm	**DD4061344**	Price
6mm	6mm	9mm	18mm	1.0mm	63mm	**DD4061345**	Price
6mm	6mm	9mm	24mm	None	75mm	**DD4061347**	Price
6mm	6mm	9mm	24mm	0.3mm	75mm	**DD4061348**	Price
6mm	6mm	9mm	24mm	0.5mm	75mm	**DD4061349**	Price
6mm	6mm	9mm	24mm	1.0mm	75mm	**DD4061350**	Price
8mm	8mm	12mm	24mm	None	75mm	**DD4061352**	Price
8mm	8mm	12mm	24mm	0.3mm	75mm	**DD4061353**	Price
8mm	8mm	12mm	24mm	0.5mm	75mm	**DD4061354**	Price
8mm	8mm	12mm	24mm	1.0mm	75mm	**DD4061355**	Price
10mm	10mm	15mm	30mm	None	88mm	**DD4061357**	Price
10mm	10mm	15mm	30mm	0.3mm	88mm	**DD4061358**	Price
10mm	10mm	15mm	30mm	0.5mm	88mm	**DD4061359**	Price
10mm	10mm	15mm	30mm	1.0mm	88mm	**DD4061360**	Price
10mm	10mm	15mm	30mm	1.5mm	88mm	**DD4061361**	Price
10mm	10mm	15mm	40mm	None	100mm	**DD4061363**	Price
10mm	10mm	15mm	40mm	0.3mm	100mm	**DD4061364**	Price
10mm	10mm	15mm	40mm	0.5mm	100mm	**DD4061365**	Price
10mm	10mm	15mm	40mm	1.0mm	100mm	**DD4061366**	Price
10mm	10mm	15mm	40mm	1.5mm	100mm	**DD4061367**	Price
12mm	12mm	18mm	36mm	None	88mm	**DD4061369**	Price
12mm	12mm	18mm	36mm	0.3mm	88mm	**DD4061370**	Price
12mm	12mm	18mm	36mm	0.5mm	88mm	**DD4061371**	Price
12mm	12mm	18mm	36mm	1.0mm	88mm	**DD4061372**	Price
12mm	12mm	18mm	36mm	1.5mm	88mm	**DD4061373**	Price
12mm	12mm	18mm	36mm	3.0mm	88mm	**DD4061374**	Price

Size	Shank Dia.	Flute Length	Reach LBS	Radius	OAL	Order No.	Price
12mm	12mm	18mm	48mm	None	100mm	**DD4061376**	Price
12mm	12mm	18mm	48mm	0.3mm	100mm	**DD4061377**	Price
12mm	12mm	18mm	48mm	0.5mm	100mm	**DD4061378**	Price
12mm	12mm	18mm	48mm	1.0mm	100mm	**DD4061379**	Price
12mm	12mm	18mm	48mm	1.5mm	100mm	**DD4061380**	Price
12mm	12mm	18mm	48mm	2.0mm	100mm	**DD4061381**	Price
12mm	12mm	18mm	48mm	3.0mm	100mm	**DD4061382**	Price
16mm	16mm	24mm	48mm	None	110mm	**DD4061384**	Price
16mm	16mm	24mm	48mm	0.5mm	110mm	**DD4061385**	Price
16mm	16mm	24mm	48mm	1.0mm	110mm	**DD4061386**	Price
16mm	16mm	24mm	48mm	1.5mm	110mm	**DD4061387**	Price
16mm	16mm	24mm	48mm	2.0mm	110mm	**DD4061388**	Price
16mm	16mm	24mm	48mm	3.0mm	110mm	**DD4061389**	Price
16mm	16mm	24mm	64mm	None	125mm	**DD4061391**	Price
16mm	16mm	24mm	64mm	0.5mm	125mm	**DD4061392**	Price
16mm	16mm	24mm	64mm	1.5mm	125mm	**DD4061393**	Price
16mm	16mm	24mm	64mm	2.0mm	125mm	**DD4061394**	Price
16mm	16mm	24mm	64mm	3.0mm	125mm	**DD4061395**	Price
20mm	20mm	30mm	60mm	None	125mm	**DD4061397**	Price
20mm	20mm	30mm	60mm	0.5mm	125mm	**DD4061398**	Price
20mm	20mm	30mm	60mm	1.5mm	125mm	**DD4061399**	Price
20mm	20mm	30mm	60mm	3.0mm	125mm	**DD4061400**	Price
20mm	20mm	30mm	80mm	None	150mm	**DD4061402**	Price
20mm	20mm	30mm	80mm	0.5mm	150mm	**DD4061403**	Price
20mm	20mm	30mm	80mm	1.5mm	150mm	**DD4061404**	Price
20mm	20mm	30mm	80mm	2.0mm	150mm	**DD4061405**	Price
20mm	20mm	30mm	80mm	3.0mm	150mm	**DD4061406**	Price

3 Flute, Aluminum Extended Length Finisher, Center Cutting End Mills

- Very high feed rates & excellent surface finish
- 3 Flute geometry promotes smooth cutting action
- Fordlube coating provides hi-lubricity and minimal edge build-up
- M.A. Ford List #138



TuffCut® X-AL

					Uncoated		Fordlube	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Order No.	Price	Order No.	Price
1/8	1/8	1/4	1-1/2	None	**DD2013801**	Price	-	-
1/8	1/8	3/8	1-1/2	None	**DD1513803**	Price	**DD1514206**	Price
1/8	1/8	1/2	1-1/2	None	**DD2013804**	Price	-	-
1/8	1/8	3/4	2	None	**DD2013806**	Price	-	-
3/16	3/16	3/8	2	None	**DD2013809**	Price	-	-
3/16	3/16	1/2	2	None	**DD1513810**	Price	**DD1514213**	Price
3/16	3/16	5/8	2-1/2	None	**DD2013811**	Price	-	-
3/16	3/16	3/4	2-1/2	None	**DD1513812**	Price	**DD1514215**	Price
3/16	3/16	1	2-1/2	None	**DD1513813**	Price	-	-
1/4	1/4	3/8	2	None	**DD2013814**	Price	-	-
1/4	1/4	1/2	2	None	**DD2013815**	Price	-	-
1/4	1/4	5/8	2	None	**DD2013817**	Price	-	-
1/4	1/4	3/4	2-1/2	None	**DD1513818**	Price	**DD1514221**	Price
1/4	1/4	3/4	2-1/2	.015	**DD1513002**	Price	-	-
1/4	1/4	3/4	2-1/2	.030	**DD1513003**	Price	-	-
1/4	1/4	1	3	None	**DD1513819**	Price	-	-
1/4	1/4	1-1/8	3	None	**DD1513820**	Price	**DD1514223**	Price
1/4	1/4	1-1/4	3	None	**DD2013821**	Price	-	-
5/16	5/16	13/16	2-1/2	None	**DD1513829**	Price	**DD1514232**	Price
5/16	5/16	1-1/2	4	None	**DD1513833**	Price	**DD1514236**	Price
3/8	3/8	3/4	2-1/2	None	**DD2013838**	Price	-	-
3/8	3/8	1	2-1/2	None	**DD1513839**	Price	**DD1514242**	Price
3/8	3/8	1	2-1/2	.015	**DD1513008**	Price	-	-
3/8	3/8	1	2-1/2	.030	**DD1513009**	Price	-	-
3/8	3/8	1-1/4	3	None	**DD1513840**	Price	-	-
3/8	3/8	1-1/2	3-1/2	None	**DD2013841**	Price	-	-
3/8	3/8	1-1/2	3-1/2	.015	**DD1513010**	Price	-	-
3/8	3/8	1-1/2	3-1/2	.030	**DD1513011**	Price	-	-
3/8	3/8	2	4	None	**DD1513842**	Price	**DD1514245**	Price
1/2	1/2	5/8	3	None	**DD2013848**	Price	-	-
1/2	1/2	1	3	None	**DD1513850**	Price	**DD1514253**	Price
1/2	1/2	1-1/4	3	None	**DD1513851**	Price	-	-
1/2	1/2	1-1/4	3	.030	**DD1513018**	Price	-	-
1/2	1/2	1-1/4	3	.060	**DD1513019**	Price	-	-
1/2	1/2	1-1/2	4	None	**DD2013852**	Price	-	-
1/2	1/2	1-1/2	4	.030	**DD1575101**	Price	-	-
1/2	1/2	1-1/2	4	.060	**DD1575102**	Price	-	-
1/2	1/2	2	4	None	**DD2013853**	Price	-	-
1/2	1/2	2-1/4	4	None	**DD1513854**	Price	**DD1514257**	Price
5/8	5/8	1-1/4	3-1/2	None	**DD1513861**	Price	**DD1514264**	Price
5/8	5/8	1-5/8	4	None	**DD2013862**	Price	-	-
5/8	5/8	2-1/2	5	None	**DD1513864**	Price	**DD1514267**	Price
3/4	3/4	1-5/8	4	None	**DD1513870**	Price	**DD1514273**	Price
3/4	3/4	1-5/8	4	.030	**DD1513045**	Price	-	-
3/4	3/4	1-5/8	4	.045	**DD1515122**	Price	-	-
3/4	3/4	2-1/2	5	None	**DD2013873**	Price	-	-
3/4	3/4	2-1/2	5	.030	**DD1513051**	Price	-	-
3/4	3/4	2-1/2	5	.060	**DD1513052**	Price	-	-
3/4	3/4	3	6	None	**DD1513874**	Price	**DD1514277**	Price

STREAKERS® M203N Solid Carbide 3 Flute End Mills with Neck Relief

Square or Corner Radius



- 3 Flute design for excellent surface finish
- Unique cutting edge and flute design are engineered for aggressive chip evacuation
- Neck relief for additional clearance in cavities and when machining against tight walls
- 45° Helix, uncoated

N Best in Aluminum and Non-ferrous

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Reach (in.)	Order No.	Price
1/4	1/4	3/8	2-1/2	1-1/8	**DD4033034**	Price
1/4	1/4	3/8	3	1-5/8	**DD4033121**	Price
1/4	1/4	3/8	4	2-1/4	**DD4033110**	Price
3/8	3/8	1/2	2-1/2	1-1/8	**DD4033035**	Price
3/8	3/8	1/2	3	1-3/4	**DD4033122**	Price
3/8	3/8	1/2	4	2-1/4	**DD4033112**	Price
1/2	1/2	5/8	3	1-3/8	**DD4033036**	Price
1/2	1/2	5/8	4	2-1/4	**DD4033123**	Price
1/2	1/2	5/8	5	2-3/8	**DD4033114**	Price
1/2	1/2	5/8	6	3-3/8	**DD4033048**	Price
5/8	5/8	3/4	5	2-1/4	**DD4033124**	Price
5/8	5/8	3/4	6	3-3/8	**DD4033116**	Price
3/4	3/4	1	4	1-3/4	**DD4033039**	Price
3/4	3/4	1	5	2-1/4	**DD4033125**	Price
3/4	3/4	1	6	3-3/8	**DD4033118**	Price

RAPIDKUT Solid Carbide, 3 Flute AlCrN Center Cut Aluminum End Mills

Metric Sizes



- 3 Flute 45° helix for high performance
- Designed for slotting and profiling in various materials
- Produces excellent surface finish
- AlCrN coated for added tool life

Size	Shank Dia.	Flute Length	OAL	Protective Chamfer	Order No.	Price
3mm	6mm	9mm	57mm	.050 - .150	**DC6210076**	Price
3.5mm	6mm	9mm	57mm	.050 - .150	**DC6210077**	Price
4mm	6mm	10mm	57mm	.050 - .150	**DC6210078**	Price
4.5mm	6mm	10mm	57mm	.050 - .150	**DC6210079**	Price
5mm	6mm	13mm	57mm	.050 - .150	**DC6210080**	Price
5.5mm	6mm	13mm	57mm	.050 - .150	**DC6210081**	Price
6mm	6mm	15mm	57mm	.050 - .150	**DC6210082**	Price
6.5mm	8mm	15mm	63mm	.100 - .200	**DC6210083**	Price
7mm	8mm	20mm	63mm	.100 - .200	**DC6210084**	Price
7.5mm	8mm	20mm	63mm	.100 - .200	**DC6210085**	Price
8mm	8mm	20mm	63mm	.100 - .200	**DC6210086**	Price
9mm	10mm	23mm	72mm	.100 - .200	**DC6210087**	Price
10mm	10mm	25mm	72mm	.100 - .200	**DC6210088**	Price
12mm	12mm	30mm	83mm	.200 - .300	**DC6210089**	Price
14mm	14mm	34mm	83mm	.200 - .300	**DC6210090**	Price
16mm	16mm	36mm	92mm	.250 - .350	**DC6210091**	Price
18mm	18mm	40mm	92mm	.250 - .350	**DC6210092**	Price

MONSTER TOOL COMPANY 3 Flute Ball Nose 45° Carbide End Mills for Aluminum



- Designed for maximum productivity in non-ferrous materials
- ZrN coating offers excellent wear resistance and increased lubricity

				Uncoated		ZrN	
Dia. (in.)	Shank	LOC	OAL	Order No.	Price	Order No.	Price
1/8	1/8	1/2	1-1/2	**DC1030013**	Price	**DC1040013**	Price
5/32	3/16	5/8	2	**DC1030014**	Price	**DC1040014**	Price
3/16	3/16	5/8	2	**DC1030015**	Price	**DC1040015**	Price
7/32	1/4	3/4	2-1/2	**DC1030016**	Price	**DC1040016**	Price
1/4	1/4	3/4	2-1/2	**DC1030017**	Price	**DC1040017**	Price
3/8	3/8	1-1/8	2-1/2	**DC1030031**	Price	**DC1040031**	Price
7/16	7/16	1-1/4	2-3/4	**DC1030032**	Price	**DC1040032**	Price
1/2	1/2	1-1/4	3	**DC1030019**	Price	**DC1040019**	Price
5/8	5/8	1-5/8	3-1/2	**DC1030020**	Price	**DC1040020**	Price
3/4	3/4	1-3/4	4	**DC1030021**	Price	**DC1040021**	Price
5/16	5/16	13/16	2-1/2	**DC1030018**	Price	**DC1040018**	Price
1	1	1-3/4	4	**DC1030022**	Price	**DC1040022**	Price

Additional sizes available

STREAKERS® M223N Solid Carbide 3 Flute End Mills with Neck Relief

Ball Nose



- For high performance machining in aluminum alloys
- Adding a necked shank to the M223 design offers a high performance tool that can reach deep cavities while minimizing tool deflection
- ZrN coating helps reduce chip packing even in heavy tool engagement cuts

Best in Aluminum and Non-ferrous

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	Reach LBS	OAl (in.)	Order No.	Price
1/8	1/8	1/4	3/4	2-1/2	**DD4061124**	Price
1/8	1/8	1/4	1	3	**DD4061127**	Price
3/16	3/16	1/4	3/4	2-1/2	**DD4061130**	Price
3/16	3/16	1/4	1	3	**DD4061133**	Price
1/4	1/4	3/8	7/8	2-1/2	**DD4061137**	Price
1/4	1/4	3/8	1-3/8	3	**DD4061141**	Price
1/4	1/4	3/8	2-1/4	4	**DD4061145**	Price
3/8	3/8	1/2	1-1/8	2-1/2	**DD4061150**	Price
3/8	3/8	1/2	1-1/4	3	**DD4061155**	Price
3/8	3/8	1/2	2-1/4	4	**DD4061159**	Price
1/2	1/2	5/8	1-3/8	3	**DD4061165**	Price
1/2	1/2	5/8	2-1/4	4	**DD4061171**	Price
1/2	1/2	5/8	3-1/4	5	**DD4061177**	Price
1/2	1/2	5/8	4-1/4	6	**DD4061183**	Price
5/8	5/8	3/4	1-3/4	4	**DD4061187**	Price
5/8	5/8	3/4	2-3/8	5	**DD4061191**	Price
5/8	5/8	3/4	3-3/8	6	**DD4061195**	Price
3/4	3/4	1	1-3/4	4	**DD4061200**	Price
3/4	3/4	1	2-3/8	5	**DD4061205**	Price
3/4	3/4	1	3-3/8	6	**DD4061210**	Price
1	1	1-1/4	2-5/8	5	**DD4061213**	Price
1	1	1-1/4	3-3/8	6	**DD4061216**	Price
1	1	1-1/4	4-3/8	7	**DD4061219**	Price

STREAKERS® M223N Solid Carbide 3 Flute End Mills with Neck Relief

Ball Nose



- For high performance machining in aluminum alloys
- Adding a necked shank to the M223 design offers a high performance tool that can reach deep cavities while minimizing tool deflection
- ZrN coating helps reduce chip packing even in heavy tool engagement cuts

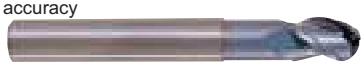
Best in Aluminum and Non-ferrous

Size	Shank Dia.	Flute Length	Reach LBS	OAL	Order No.	Price
6mm	6mm	9mm	18mm	63mm	**DD4061346**	Price
6mm	6mm	9mm	24mm	75mm	**DD4061351**	Price
8mm	8mm	12mm	24mm	75mm	**DD4061356**	Price
10mm	10mm	15mm	30mm	88mm	**DD4061362**	Price
10mm	10mm	15mm	40mm	100mm	**DD4061368**	Price
12mm	12mm	18mm	36mm	88mm	**DD4061375**	Price
12mm	12mm	18mm	48mm	100mm	**DD4061383**	Price
16mm	16mm	24mm	48mm	110mm	**DD4061390**	Price
16mm	16mm	24mm	64mm	125mm	**DD4061396**	Price
20mm	20mm	30mm	60mm	125mm	**DD4061401**	Price
20mm	20mm	30mm	80mm	150mm	**DD4061407**	Price

PREMIER HP HIGH PERFORMANCE 3 Flute 45° Helix TiCN Coated End Mill Ball Nose for Aluminum

TiCN

- High velocity milling of aluminum, copper and other non-ferrous materials
- Maximum stock removal, chip ejection, stability
- Increased tool life and higher cutting accuracy
- O.D. tolerance: -.0005" ~ .0015"
- Shank tolerance: 0 ~ -.0003



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	1/8	1/2	1-1/2	**DD25EG97500801**	Price
3/16	3/16	5/8	2	**DD25EG97501201**	Price
1/4	1/4	3/4	2-1/2	**DD25EG97501601**	Price
5/16	5/16	13/16	2-1/2	**DD25EG97502001**	Price
3/8	3/8	1	2-1/2	**DD25EG97502401**	Price
1/2	1/2	1	3	**DD25EG97503201**	Price
5/8	5/8	1-1/4	3-1/2	**DD25EG97504001**	Price
3/4	3/4	1-1/2	4	**DD25EG97504801**	Price
1	1	1-1/2	4	**DD25EG97506401**	Price

STREAKERS® M223 Solid Carbide 3 Flute Ball Nose End Mills for Aluminum

- For high performance machining in aluminum alloys
- Improved floor and wall finishes, better ramping abililty and longer tool life
- Unique grinds curl and evacuate gummy aluminum chips, allowing high feed rates without chip packing
- Excellent for roughing and finishing



Size	Shank Dia.	Flute Length	OAL	Order No.	Price
3mm	3mm	9mm	38mm	**DD4061222**	Price
4mm	4mm	12mm	50mm	**DD4061225**	Price
5mm	5mm	15mm	50mm	**DD4061228**	Price
6mm	6mm	13mm	57mm	**DD4061233**	Price
8mm	8mm	20mm	63mm	**DD4061243**	Price
10mm	10mm	25mm	72mm	**DD4061256**	Price
12mm	12mm	30mm	83mm	**DD4061280**	Price
16mm	16mm	32mm	92mm	**DD4061298**	Price
20mm	20mm	40mm	104mm	**DD4061314**	Price

STREAKERS® M223 Solid Carbide 3 Flute Ball Nose End Mills for Aluminum

- For high performance machining in aluminum alloys
- Improved floor and wall finishes, better ramping abililty and longer tool life
- Unique grinds curl and evacuate gummy aluminum chips, allowing high feed rates without chip packing
- Excellent for roughing and finishing



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	1/8	3/8	1-1/2	**DD4061003**	Price
3/16	3/16	9/16	2	**DD4061008**	Price
1/4	1/4	3/4	2-1/2	**DD4061015**	Price
3/8	3/8	15/16	2-1/2	**DD4061029**	Price
1/2	1/2	1	3	**DD4061049**	Price
5/8	5/8	1-7/8	4	**DD4061072**	Price
3/4	3/4	1-5/8	4	**DD4061079**	Price

TuffCut® XR-AL 3 Flute Gem+ Coated End Mills for Aluminum



45° Helix • Solid Carbide

- Enhanced flute design for improved chip control and reduced cutting forces
- Chipbreaker design provides better part finish than traditional knuckle roughers and aids in chip management
- Variable helix strengthens the tool corner reducing the chance of a chipped corner
- Gem+ coating recommended for aluminum, aluminum alloys, non-ferrous metals and composites
- M A Ford List #334

Size (in.)	Shank Dia. (in.)	LOC (in.)	OAL (in.)	Neck Length (in.)	Corner Radius (in.)	Order No.	Price
1/4	1/4	1/2	2	-	.020	**DD1633400**	Price
1/4	1/4	3/4	2-1/2	-	.020	**DD1633404**	Price
3/8	3/8	5/8	2	-	.020	**DD1633408**	Price
3/8	3/8	1	2-1/2	-	.020	**DD1633412**	Price
1/2	1/2	5/8	3	-	.030	**DD1633416**	Price
1/2	1/2	1	3	-	.030	**DD1633419**	Price
1/2	1/2	1-1/4	3	-	.030	**DD1633423**	Price
1/2	1/2	5/8	4	2-1/8	.030	**DD1633428**	Price
3/4	3/4	1	4	-	.030	**DD1633432**	Price
3/4	3/4	1	5	3	.030	**DD1633436**	Price
1	1	1-1/2	4	-	-	**DD1633439**	Price

RAPIDKUT® 2 Flute Solid Carbide Miniature End Mills

Square End



- 30° Helix
- Tolerance +/- .0005”
- Good for materials less than HRc 48

AlTiN coating is ideal for high temperature cutting operations in many materials such as titanium and nickel alloys, Co-Cr-Mo, stainless steel, alloy steels and cast iron

PCD (Amorphous DLC) Diamond coating for increased lubricity in non-ferrous materials

				Uncoated		AlTiN		DLC	
Size	Shank Dia.	Flute Length	OAL	Order No.	Price	Order No.	Price	Order No.	Price
.005	1/8	.008	1-1/2	HC4514470	Price	-	-	-	-
.005	1/8	.015	1-1/2	HC4515010	Price	HC4710005	Price	-	-
.006	1/8	.009	1-1/2	HC4514480	Price	-	-	-	-
.006	1/8	.018	1-1/2	HC4515020	Price	-	-	-	-
.007	1/8	.011	1-1/2	HC4514490	Price	-	-	-	-
.007	1/8	.021	1-1/2	HC4515030	Price	-	-	-	-
.008	1/8	.012	1-1/2	HC4514500	Price	-	-	-	-
.008	1/8	.024	1-1/2	HC4515040	Price	-	-	-	-
.009	1/8	.014	1-1/2	HC4514510	Price	-	-	-	-
.009	1/8	.027	1-1/2	HC4515050	Price	-	-	-	-
.010	1/8	.015	1-1/2	HC4514520	Price	HC4710000	Price	-	-
.010	1/8	.030	1-1/2	HC4515060	Price	HC4710020	Price	HC4613120	Price
.011	1/8	.017	1-1/2	HC4514530	Price	-	-	-	-
.011	1/8	.033	1-1/2	HC4515070	Price	-	-	-	-
.012	1/8	.018	1-1/2	HC4514540	Price	-	-	-	-
.012	1/8	.036	1-1/2	HC4515080	Price	HC4710040	Price	-	-
.013	1/8	.020	1-1/2	HC4514550	Price	-	-	-	-
.013	1/8	.039	1-1/2	HC4515090	Price	-	-	-	-
.014	1/8	.021	1-1/2	HC4514560	Price	-	-	-	-
.014	1/8	.042	1-1/2	HC4515100	Price	-	-	-	-
.015	1/8	.023	1-1/2	HC4514570	Price	HC4710050	Price	-	-
.015	1/8	.045	1-1/2	HC4515110	Price	HC4710070	Price	HC4613130	Price
.016	1/8	.024	1-1/2	HC4514580	Price	-	-	-	-
.016	1/8	.048	1-1/2	HC4515120	Price	-	-	-	-
.017	1/8	.026	1-1/2	HC4514590	Price	-	-	-	-
.017	1/8	.051	1-1/2	HC4515130	Price	-	-	-	-
.018	1/8	.027	1-1/2	HC4514600	Price	-	-	-	-
.018	1/8	.054	1-1/2	HC4515140	Price	HC4710090	Price	-	-
.019	1/8	.029	1-1/2	HC4514610	Price	-	-	-	-
.019	1/8	.057	1-1/2	HC4515150	Price	-	-	-	-
.020	1/8	.030	1-1/2	HC4514620	Price	HC4710100	Price	-	-
.020	1/8	.060	1-1/2	HC4515160	Price	HC4710120	Price	HC4613150	Price
.021	1/8	.032	1-1/2	HC4514630	Price	-	-	-	-
.021	1/8	.063	1-1/2	HC4515170	Price	-	-	-	-
.022	1/8	.033	1-1/2	HC4514640	Price	-	-	-	-
.022	1/8	.066	1-1/2	HC4515180	Price	-	-	-	-
.023	1/8	.035	1-1/2	HC4514650	Price	-	-	-	-
.023	1/8	.069	1-1/2	HC4515190	Price	-	-	-	-
.024	1/8	.036	1-1/2	HC4514660	Price	-	-	-	-
.024	1/8	.072	1-1/2	HC4515200	Price	-	-	-	-
.025	1/8	.038	1-1/2	HC4514670	Price	HC4710140	Price	-	-
.025	1/8	.075	1-1/2	HC4515210	Price	HC4710160	Price	HC4613170	Price
.026	1/8	.039	1-1/2	HC4514680	Price	-	-	-	-
.026	1/8	.078	1-1/2	HC4515220	Price	-	-	-	-
.027	1/8	.041	1-1/2	HC4514690	Price	-	-	-	-
.027	1/8	.081	1-1/2	HC4515230	Price	-	-	-	-
.028	1/8	.042	1-1/2	HC4514700	Price	-	-	-	-
.028	1/8	.084	1-1/2	HC4515240	Price	-	-	-	-
.029	1/8	.044	1-1/2	HC4514710	Price	-	-	-	-
.029	1/8	.087	1-1/2	HC4515250	Price	-	-	-	-
.030	1/8	.045	1-1/2	HC4514720	Price	HC4710180	Price	-	-
.030	1/8	.090	1-1/2	HC4515260	Price	HC4710200	Price	HC4613190	Price
.031	1/8	.047	1-1/2	HC4514730	Price	HC4710220	Price	-	-
.031	1/8	.093	1-1/2	HC4515270	Price	HC4710240	Price	HC4613210	Price
.032	1/8	.048	1-1/2	HC4514740	Price	-	-	-	-
.032	1/8	.096	1-1/2	HC4515280	Price	-	-	-	-
.033	1/8	.050	1-1/2	HC4514750	Price	-	-	-	-
.033	1/8	.099	1-1/2	HC4515290	Price	-	-	-	-
.034	1/8	.051	1-1/2	HC4514760	Price	-	-	-	-
.034	1/8	.102	1-1/2	HC4515300	Price	-	-	-	-
.035	1/8	.053	1-1/2	HC4514770	Price	HC4710260	Price	-	-
.035	1/8	.105	1-1/2	HC4515310	Price	HC4710280	Price	HC4613230	Price
.036	1/8	.054	1-1/2	HC4514780	Price	-	-	-	-
.036	1/8	.108	1-1/2	HC4515320	Price	-	-	-	-
.037	1/8	.056	1-1/2	HC4514790	Price	-	-	-	-
.037	1/8	.111	1-1/2	HC4515330	Price	-	-	-	-
.038	1/8	.057	1-1/2	HC4514800	Price	-	-	-	-
.038	1/8	.114	1-1/2	HC4515340	Price	-	-	-	-
.039	1/8	.059	1-1/2	HC4514810	Price	-	-	-	-
.039	1/8	.117	1-1/2	HC4515350	Price	HC4710300	Price	-	-
.040	1/8	.060	1-1/2	HC4514820	Price	HC4710310	Price	-	-
.040	1/8	.120	1-1/2	HC4515360	Price	HC4710330	Price	HC4613250	Price
.041	1/8	.123	1-1/2	HC4515370	Price	-	-	-	-
.042	1/8	.126	1-1/2	HC4515380	Price	-	-	-	-
.043	1/8	.129	1-1/2	HC4515390	Price	-	-	-	-
.044	1/8	.132	1-1/2	HC4515400	Price	-	-	-	-
.045	1/8	.068	1-1/2	HC4514830	Price	HC4710350	Price	-	-
.045	1/8	.135	1-1/2	HC4515410	Price	HC4710360	Price	HC4613270	Price
.046	1/8	.138	1-1/2	HC4515420	Price	-	-	-	-
.047	1/8	.071	1-1/2	HC4514840	Price	HC4710380	Price	-	-
.047	1/8	.141	1-1/2	HC4515430	Price	HC4710400	Price	HC4613290	Price
.048	1/8	.144	1-1/2	HC4515440	Price	-	-	-	-
.049	1/8	.147	1-1/2	HC4515450	Price	-	-	-	-
.050	1/8	.074	1-1/2	HC4514850	Price	-	-	-	-
.050	1/8	.075	1-1/2	-	-	HC4710420	Price	-	-
.050	1/8	.150	1-1/2	HC4515460	Price	HC4710430	Price	HC4613310	Price
.051	1/8	.153	1-1/2	HC4515470	Price	-	-	-	-
.052	1/8	.156	1-1/2	HC4515480	Price	-	-	-	-
.053	1/8	.159	1-1/2	HC4515490	Price	-	-	-	-
.054	1/8	.162	1-1/2	HC4515500	Price	-	-	-	-
.055	1/8	.083	1-1/2	HC4514860	Price	HC4710450	Price	-	-
.055	1/8	.165	1-1/2	HC4515510	Price	HC4710460	Price	HC4613330	Price
.056	1/8	.168	1-1/2	HC4515520	Price	-	-	-	-
.057	1/8	.171	1-1/2	HC4515530	Price	-	-	-	-
.058	1/8	.174	1-1/2	HC4515540	Price	-	-	-	-
.059	1/8	.177	1-1/2	HC4515550	Price	-	-	-	-
.060	1/8	.090	1-1/2	HC4514870	Price	HC4710480	Price	-	-
.060	1/8	.180	1-1/2	HC4515560	Price	HC4710490	Price	HC4613350	Price
.062	1/8	.093	1-1/2	HC4514880	Price	HC4710510	Price	-	-
.062	1/8	.186	1-1/2	HC4515570	Price	HC4710530	Price	HC4613370	Price
.065	1/8	.098	1-1/2	HC4514890	Price	HC4710540	Price	-	-
.065	1/8	.195	1-1/2	HC4515580	Price	HC4710550	Price	HC4613380	Price
.070	1/8	.105	1-1/2	HC4514900	Price	HC4710560	Price	-	-
.070	1/8	.210	1-1/2	HC4515590	Price	HC4710570	Price	HC4613400	Price
.075	1/8	.113	1-1/2	HC4514910	Price	HC4710580	Price	-	-
.075	1/8	.225	1-1/2	HC4515600	Price	HC4710590	Price	-	-
.078	1/8	.117	1-1/2	HC4514920	Price	HC4710610	Price	-	-
.078	1/8	.234	1-1/2	HC4515610	Price	HC4710630	Price	HC4613430	Price
.080	1/8	.120	1-1/2	HC4514930	Price	HC4710640	Price	-	-
.080	1/8	.240	1-1/2	HC4515620	Price	HC4710650	Price	HC4613440	Price
.085	1/8	.128	1-1/2	HC4514940	Price	HC4710660	Price	-	-
.085	1/8	.255	1-1/2	HC4515630	Price	HC4710670	Price	-	-
.090	1/8	.135	1-1/2	HC4514950	Price	HC4710680	Price	-	-
.090	1/8	.270	1-1/2	HC4515640	Price	HC4710690	Price	HC4613460	Price
.093	1/8	.140	1-1/2	HC4516930	Price	HC4710830	Price	-	-
.093	1/8	.279	1-1/2	HC4515650	Price	HC4710720	Price	HC4613490	Price
.095	1/8	.143	1-1/2	HC4514960	Price	HC4710730	Price	-	-
.095	1/8	.285	1-1/2	HC4515660	Price	HC4710740	Price	-	-
.100	1/8	.150	1-1/2	HC4514970	Price	HC4710750	Price	-	-
.100	1/8	.300	1-1/2	HC4515670	Price	HC4710760	Price	HC4613500	Price
.105	1/8	.158	1-1/2	HC4514980	Price	HC4710770	Price	-	-
.105	1/8	.315	1-1/2	HC4515680	Price	HC4710780	Price	-	-
.110	1/8	.165	1-1/2	HC4514990	Price	HC4710790	Price	-	-
.110	1/8	.330	1-1/2	HC4515690	Price	HC4710800	Price	-	-
.115	1/8	.173	1-1/2	HC4515000	Price	HC4710810	Price	-	-
.115	1/8	.345	1-1/2	HC4515700	Price	HC4710820	Price	-	-

RAPIDKUT® 2 Flute Solid Carbide Miniature End Mills

Ball Nose



- 30° Helix
- Tolerance +/- .0005”
- Good for materials less than HRc 48

AlTiN coating is ideal for high temperature cutting operations in many materials such as titanium and nickel alloys, Co-Cr-Mo, stainless steel, alloy steels and cast iron

PCD (Amorphous DLC) Diamond coating for increased lubricity in non-ferrous materials

				Uncoated		AlTiN		DLC	
Size	Shank Dia.	Flute Length	Overall Length	Order No.	Price	Order No.	Price	Order No.	Price
.005	1/8	.008	1-1/2	**HC4515710**	Price	-	-	-	-
.005	1/8	.015	1-1/2	**HC4515720**	Price	-	-	-	-
.006	1/8	.009	1-1/2	**HC4515730**	Price	-	-	-	-
.006	1/8	.018	1-1/2	**HC4515740**	Price	-	-	-	-
.007	1/8	.011	1-1/2	**HC4515750**	Price	-	-	-	-
.007	1/8	.021	1-1/2	**HC4515760**	Price	-	-	-	-
.008	1/8	.012	1-1/2	**HC4515770**	Price	-	-	-	-
.008	1/8	.024	1-1/2	**HC4515780**	Price	-	-	-	-
.009	1/8	.014	1-1/2	**HC4515790**	Price	-	-	-	-
.009	1/8	.027	1-1/2	**HC4515800**	Price	-	-	-	-
.010	1/8	.015	1-1/2	**HC4515810**	Price	**HC4710010**	Price	-	-
.010	1/8	.030	1-1/2	**HC4515820**	Price	**HC4710030**	Price	**HC4613110**	Price
.011	1/8	.017	1-1/2	**HC4515830**	Price	-	-	-	-
.011	1/8	.033	1-1/2	**HC4515840**	Price	-	-	-	-
.012	1/8	.018	1-1/2	**HC4515850**	Price	-	-	-	-
.012	1/8	.036	1-1/2	**HC4515860**	Price	-	-	-	-
.013	1/8	.020	1-1/2	**HC4515880**	Price	-	-	-	-
.013	1/8	.039	1-1/2	**HC4515870**	Price	-	-	-	-
.014	1/8	.021	1-1/2	**HC4515890**	Price	-	-	-	-
.014	1/8	.042	1-1/2	**HC4515900**	Price	-	-	-	-
.015	1/8	.023	1-1/2	**HC4515910**	Price	**HC4710060**	Price	-	-
.015	1/8	.045	1-1/2	**HC4515920**	Price	**HC4710080**	Price	**HC4613140**	Price
.016	1/8	.024	1-1/2	**HC4515930**	Price	-	-	-	-
.016	1/8	.048	1-1/2	**HC4515940**	Price	-	-	-	-
.017	1/8	.026	1-1/2	**HC4515950**	Price	-	-	-	-
.017	1/8	.051	1-1/2	**HC4515960**	Price	-	-	-	-
.018	1/8	.027	1-1/2	**HC4515970**	Price	-	-	-	-
.018	1/8	.054	1-1/2	**HC4515980**	Price	-	-	-	-
.019	1/8	.029	1-1/2	**HC4515990**	Price	-	-	-	-
.019	1/8	.057	1-1/2	**HC4516000**	Price	-	-	-	-
.020	1/8	.030	1-1/2	**HC4516010**	Price	**HC4710110**	Price	-	-
.020	1/8	.060	1-1/2	**HC4516020**	Price	**HC4710130**	Price	**HC4613160**	Price
.021	1/8	.032	1-1/2	**HC4516030**	Price	-	-	-	-
.021	1/8	.063	1-1/2	**HC4516040**	Price	-	-	-	-
.022	1/8	.033	1-1/2	**HC4516050**	Price	-	-	-	-
.022	1/8	.066	1-1/2	**HC4516060**	Price	-	-	-	-
.023	1/8	.035	1-1/2	**HC4516070**	Price	-	-	-	-
.023	1/8	.069	1-1/2	**HC4516080**	Price	-	-	-	-
.024	1/8	.036	1-1/2	**HC4516090**	Price	-	-	-	-
.024	1/8	.072	1-1/2	**HC4516100**	Price	-	-	-	-
.025	1/8	.038	1-1/2	**HC4516110**	Price	**HC4710150**	Price	-	-
.025	1/8	.075	1-1/2	**HC4516120**	Price	**HC4710170**	Price	**HC4613180**	Price
.026	1/8	.039	1-1/2	**HC4516130**	Price	-	-	-	-
.026	1/8	.078	1-1/2	**HC4516140**	Price	-	-	-	-
.027	1/8	.041	1-1/2	**HC4516150**	Price	-	-	-	-
.027	1/8	.081	1-1/2	**HC4516160**	Price	-	-	-	-
.028	1/8	.042	1-1/2	**HC4516170**	Price	-	-	-	-
.028	1/8	.084	1-1/2	**HC4516180**	Price	-	-	-	-
.029	1/8	.044	1-1/2	**HC4516190**	Price	-	-	-	-
.029	1/8	.087	1-1/2	**HC4516200**	Price	-	-	-	-
.030	1/8	.045	1-1/2	**HC4516210**	Price	**HC4710190**	Price	-	-
.030	1/8	.090	1-1/2	**HC4516220**	Price	**HC4710210**	Price	**HC4613200**	Price
.031	1/8	.047	1-1/2	**HC4516230**	Price	**HC4710230**	Price	-	-
.031	1/8	.093	1-1/2	**HC4516240**	Price	**HC4710250**	Price	**HC4613220**	Price
.032	1/8	.048	1-1/2	**HC4516250**	Price	-	-	-	-
.032	1/8	.096	1-1/2	**HC4516260**	Price	-	-	-	-
.033	1/8	.050	1-1/2	**HC4516270**	Price	-	-	-	-
.033	1/8	.099	1-1/2	**HC4516280**	Price	-	-	-	-
.034	1/8	.051	1-1/2	**HC4516290**	Price	-	-	-	-
.034	1/8	.102	1-1/2	**HC4516300**	Price	-	-	-	-
.035	1/8	.053	1-1/2	**HC4516310**	Price	**HC4710270**	Price	-	-
.035	1/8	.105	1-1/2	**HC4516320**	Price	**HC4710290**	Price	**HC4613240**	Price
.036	1/8	.054	1-1/2	**HC4516330**	Price	-	-	-	-
.036	1/8	.108	1-1/2	**HC4516340**	Price	-	-	-	-
.037	1/8	.056	1-1/2	**HC4516350**	Price	-	-	-	-
.037	1/8	.111	1-1/2	**HC4516360**	Price	-	-	-	-
.038	1/8	.057	1-1/2	**HC4516370**	Price	-	-	-	-
.038	1/8	.114	1-1/2	**HC4516380**	Price	-	-	-	-
.039	1/8	.059	1-1/2	**HC4516390**	Price	-	-	-	-
.039	1/8	.117	1-1/2	**HC4516400**	Price	-	-	-	-
.040	1/8	.060	1-1/2	**HC4516410**	Price	**HC4710320**	Price	-	-
.040	1/8	.120	1-1/2	**HC4516420**	Price	**HC4710340**	Price	**HC4613260**	Price
.041	1/8	.123	1-1/2	**HC4516430**	Price	-	-	-	-
.042	1/8	.126	1-1/2	**HC4516440**	Price	-	-	-	-
.043	1/8	.129	1-1/2	**HC4516450**	Price	-	-	-	-
.044	1/8	.132	1-1/2	**HC4516460**	Price	-	-	-	-
.045	1/8	.068	1-1/2	**HC4516470**	Price	-	-	-	-
.045	1/8	.135	1-1/2	**HC4516480**	Price	**HC4710370**	Price	**HC4613280**	Price
.046	1/8	.138	1-1/2	**HC4516490**	Price	-	-	-	-
.047	1/8	.071	1-1/2	**HC4516500**	Price	**HC4710390**	Price	-	-
.047	1/8	.141	1-1/2	**HC4516510**	Price	**HC4710410**	Price	**HC4613300**	Price
.048	1/8	.144	1-1/2	**HC4516520**	Price	-	-	-	-
.049	1/8	.147	1-1/2	**HC4516530**	Price	-	-	-	-
.050	1/8	.075	1-1/2	**HC4516540**	Price	-	-	-	-
.050	1/8	.150	1-1/2	**HC4516550**	Price	**HC4710440**	Price	**HC4613320**	Price
.051	1/8	.153	1-1/2	**HC4516560**	Price	-	-	-	-
.052	1/8	.156	1-1/2	**HC4516570**	Price	-	-	-	-
.053	1/8	.159	1-1/2	**HC4516580**	Price	-	-	-	-
.054	1/8	.162	1-1/2	**HC4516590**	Price	-	-	-	-
.055	1/8	.083	1-1/2	**HC4516600**	Price	-	-	-	-
.055	1/8	.165	1-1/2	**HC4516610**	Price	**HC4710470**	Price	**HC4613340**	Price
.056	1/8	.168	1-1/2	**HC4516620**	Price	-	-	-	-
.057	1/8	.171	1-1/2	**HC4516630**	Price	-	-	-	-
.058	1/8	.174	1-1/2	**HC4516640**	Price	-	-	-	-
.059	1/8	.177	1-1/2	**HC4516650**	Price	-	-	-	-
.060	1/8	.090	1-1/2	**HC4516660**	Price	-	-	-	-
.060	1/8	.180	1-1/2	**HC4516670**	Price	**HC4710500**	Price	**HC4613360**	Price
.062	1/8	.093	1-1/2	**HC4516680**	Price	**HC4710520**	Price	-	-
.065	1/8	.098	1-1/2	**HC4516690**	Price	-	-	-	-
.065	1/8	.195	1-1/2	**HC4516700**	Price	-	-	**HC4613390**	Price
.070	1/8	.105	1-1/2	**HC4516710**	Price	-	-	-	-
.070	1/8	.210	1-1/2	**HC4516720**	Price	-	-	**HC4613410**	Price
.075	1/8	.113	1-1/2	**HC4516730**	Price	-	-	-	-
.075	1/8	.225	1-1/2	**HC4516740**	Price	-	-	-	-
.078	1/8	.117	1-1/2	**HC4516750**	Price	**HC4710600**	Price	-	-
.078	1/8	.234	1-1/2	**HC4516760**	Price	**HC4710620**	Price	**HC4613420**	Price
.080	1/8	.120	1-1/2	**HC4516770**	Price	-	-	-	-
.080	1/8	.240	1-1/2	**HC4516780**	Price	-	-	**HC4613450**	Price
.085	1/8	.128	1-1/2	**HC4516790**	Price	-	-	-	-
.085	1/8	.255	1-1/2	**HC4516800**	Price	-	-	-	-
.090	1/8	.135	1-1/2	**HC4516810**	Price	-	-	-	-
.090	1/8	.270	1-1/2	**HC4516820**	Price	-	-	**HC4613470**	Price
.093	1/8	.140	1-1/2	**HC4516830**	Price	**HC4710700**	Price	-	-
.093	1/8	.279	1-1/2	**HC4516840**	Price	**HC4710710**	Price	**HC4613480**	Price
.095	1/8	.143	1-1/2	**HC4516850**	Price	-	-	-	-
.095	1/8	.285	1-1/2	**HC4516860**	Price	-	-	-	-
.100	1/8	.150	1-1/2	**HC4516870**	Price	-	-	-	-
.100	1/8	.300	1-1/2	**HC4516880**	Price	-	-	**HC4613510**	Price
.105	1/8	.315	1-1/2	**HC4516890**	Price	-	-	-	-
.110	1/8	.330	1-1/2	**HC4516900**	Price	-	-	-	-
.115	1/8	.345	1-1/2	**HC4516910**	Price	-	-	-	-
.120	1/8	.360	1-1/2	**HC4516920**	Price	-	-	-	-

RAPIDKUT® 2 Flute Spherical Ball Nose End Mills

Solid Carbide

- nACo coated for hard materials
- Made from premium submicron grain carbide



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Reach (in.)	Style	Order No.	Price
1/32	1/8	.027	1-1/2	.0890	Ball 270°	**HC5521535**	Price
1/32	1/8	.027	1-1/2	.1200	Ball 270°	**HC5521540**	Price
1/32	1/8	.027	1-1/2	.1520	Ball 270°	**HC5521545**	Price
1/32	1/8	.027	1-1/2	.2140	Ball 270°	**HC5521550**	Price
3/64	1/8	.040	1-1/2	.1330	Ball 270°	**HC5521555**	Price
1/16	1/8	.040	1-1/2	.1460	Ball 270°	**HC5521565**	Price
1/16	1/8	.040	1-1/2	.2590	Ball 220°	**HC5521560**	Price
1/16	1/8	.053	1-1/2	.1780	Ball 270°	**HC5521575**	Price
1/16	1/8	.053	1-1/2	.2400	Ball 270°	**HC5521580**	Price
1/16	1/8	.053	1-1/2	.3030	Ball 270°	**HC5521570**	Price
1/16	1/8	.053	1-1/2	.3650	Ball 270°	**HC5521585**	Price
1/16	1/8	.057	1-1/2	.1350	Ball 300°	**HC5521590**	Price
5/64	1/8	.067	1-1/2	.1920	Ball 270°	**HC5521595**	Price
5/64	1/8	.072	1-1/2	.1650	Ball 300°	**HC5521600**	Price
3/32	1/8	.060	1-1/2	.2600	Ball 220°	**HC5521605**	Price
3/32	1/8	.079	1-1/2	.2040	Ball 270°	**HC5521610**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Reach (in.)	Style	Order No.	Price
3/32	1/8	.079	1-1/2	.3290	Ball 270°	**HC5521615**	Price
3/32	1/8	.079	1-1/2	.4540	Ball 270°	**HC5521620**	Price
3/32	1/8	.079	1-1/2	.3910	Ball 270°	**HC5521625**	Price
3/32	1/8	.079	1-1/2	.5790	Ball 270°	**HC5521630**	Price
3/32	1/8	.079	1-1/2	.7040	Ball 270°	**HC5521635**	Price
3/32	1/8	.086	1-1/2	.2110	Ball 300°	**HC5521640**	Price
1/8	1/8	3/32	1-1/2	.2738	Ball 220°	**HC5521645**	Price
1/8	1/8	3/32	3	.2738	Ball 220°	**HC5521650**	Price
3/16	3/16	9/64	2	.3356	Ball 220°	**HC5521655**	Price
3/16	3/16	9/64	3	.3356	Ball 220°	**HC5521660**	Price
1/4	1/4	3/16	2-1/2	.3975	Ball 220°	**HC5521665**	Price
1/4	1/4	3/16	4	.3975	Ball 220°	**HC5521670**	Price
3/8	3/8	9/32	2-1/2	.5223	Ball 220°	**HC5521675**	Price
3/8	3/8	9/32	4	.5223	Ball 220°	**HC5521680**	Price
1/2	1/2	3/8	3	.6460	Ball 220°	**HC5521685**	Price
1/2	1/2	3/8	6	.6460	Ball 220°	**HC5521690**	Price

RAPIDKUT® 3 Flute Solid Carbide Miniature End Mills

Square End

- Center cutting
- 30° Helix
- Good for materials less than HRc 48
- Tolerance +/- .0005”



AlTiN coating is ideal for high temperature cutting operations in many materials such as titanium and nickel alloys, Co-Cr-Mo, stainless steel, alloy steels and cast iron

PCD (Amorphous DLC) Diamond coating for increased lubricity in non-ferrous materials

							Uncoated		AlTiN		DLC	
Size	Shank Dia.	Flute Length	Flute Length x Diameter Ratio	Length Below Shank (in.)	Reach	OAL	Order No.	Price	Order No.	Price	Order No.	Price
.010	1/8	.015	1.5x	.030	3x	2-1/2	**HC4830000**	Price	**HC5037080**	Price	**-**	-
.010	1/8	.015	1.5x	.050	5x	2-1/2	**HC4830010**	Price	**HC5037090**	Price	**HC4934500**	Price
.010	1/8	.015	1.5x	.080	8x	2-1/2	**HC4830020**	Price	**HC5037100**	Price	**HC4934510**	Price
.010	1/8	.015	1.5x	.125	12x	2-1/2	**HC4830030**	Price	**HC5037110**	Price	**HC4934520**	Price
.010	1/8	.015	1.5x	.150	15x	2-1/2	**HC4830040**	Price	**HC5037120**	Price	**-**	-
.010	1/8	.050	5x	-	-	2-1/2	**HC4830050**	Price	**HC5037130**	Price	**HC4934530**	Price
.010	1/8	.050	5x	.100	10x	2-1/2	**HC4830060**	Price	**HC5037140**	Price	**HC4934540**	Price
.015	1/8	.022	1.5x	.045	3x	2-1/2	**HC4830070**	Price	**HC5037150**	Price	**-**	-
.015	1/8	.022	1.5x	.078	5x	2-1/2	**HC4830080**	Price	**HC5037160**	Price	**HC4934550**	Price
.015	1/8	.022	1.5x	.125	8x	2-1/2	**HC4830090**	Price	**HC5037170**	Price	**HC4934560**	Price
.015	1/8	.022	1.5x	.156	10x	2-1/2	**HC4830100**	Price	**HC5037180**	Price	**-**	-
.015	1/8	.022	1.5x	.225	15x	2-1/2	**HC4830110**	Price	**HC5037190**	Price	**HC4934570**	Price
.015	1/8	.022	1.5x	.270	18x	2-1/2	**HC4830120**	Price	**HC5037200**	Price	**-**	-
.015	1/8	.022	1.5x	.300	20x	2-1/2	**HC4830130**	Price	**HC5037210**	Price	**-**	-
.015	1/8	.022	1.5x	.375	25x	2-1/2	**HC4830140**	Price	**HC5037220**	Price	**-**	-
.015	1/8	.078	5x	-	-	2-1/2	**HC4830150**	Price	**HC5037230**	Price	**HC4934580**	Price
.015	1/8	.078	5x	.150	10x	2-1/2	**HC4830160**	Price	**HC5037240**	Price	**HC4934590**	Price
.015	1/8	.125	8x	-	-	2-1/2	**HC4830170**	Price	**HC5037250**	Price	**HC4934600**	Price
.015	1/8	.187	12x	-	-	2-1/2	**HC4830180**	Price	**HC5037260**	Price	**-**	-
.020	1/8	.030	1.5x	.100	5x	2-1/2	**HC4830190**	Price	**HC5037270**	Price	**HC4934610**	Price
.020	1/8	.030	1.5x	.160	8x	2-1/2	**HC4830200**	Price	**HC5037280**	Price	**HC4934620**	Price
.020	1/8	.030	1.5x	.200	10x	2-1/2	**HC4830210**	Price	**HC5037290**	Price	**-**	-
.020	1/8	.030	1.5x	.250	12x	2-1/2	**HC4830220**	Price	**HC5037300**	Price	**HC4934630**	Price
.020	1/8	.030	1.5x	.300	15x	2-1/2	**HC4830230**	Price	**HC5037310**	Price	**HC4934640**	Price
.020	1/8	.030	1.5x	.500	25x	2-1/2	**HC4830240**	Price	**HC5037320**	Price	**-**	-
.020	1/8	.100	5x	-	-	2-1/2	**HC4830250**	Price	**HC5037330**	Price	**HC4934650**	Price
.020	1/8	.100	5x	.200	10x	2-1/2	**HC4830260**	Price	**HC5037340**	Price	**HC4934660**	Price
.020	1/8	.160	8x	-	-	2-1/2	**HC4830270**	Price	**HC5037350**	Price	**-**	-
.020	1/8	.250	12x	-	-	2-1/2	**HC4830280**	Price	**HC5037360**	Price	**-**	-
.025	1/8	.037	1.5x	.075	3x	2-1/2	**HC4830290**	Price	**HC5037370**	Price	**-**	-
.025	1/8	.037	1.5x	.125	5x	2-1/2	**HC4830300**	Price	**HC5037380**	Price	**HC4934670**	Price
.025	1/8	.037	1.5x	.203	8x	2-1/2	**HC4830310**	Price	**HC5037390**	Price	**HC4934680**	Price
.025	1/8	.037	1.5x	.250	10x	2-1/2	**HC4830320**	Price	**HC5037400**	Price	**-**	-
.025	1/8	.037	1.5x	.375	15x	2-1/2	**HC4830330**	Price	**HC5037410**	Price	**HC4934690**	Price
.025	1/8	.037	1.5x	.500	20x	2-1/2	**HC4830340**	Price	**HC5037420**	Price	**-**	-
.025	1/8	.125	5x	-	-	2-1/2	**HC4830350**	Price	**HC5037430**	Price	**HC4934700**	Price
.025	1/8	.125	5x	.250	10x	2-1/2	**HC4830360**	Price	**HC5037440**	Price	**HC4934710**	Price
.025	1/8	.203	8x	-	-	2-1/2	**HC4830370**	Price	**HC5037450**	Price	**-**	-
.030	1/8	.045	1.5x	.090	3x	2-1/2	**HC4830380**	Price	**HC5037460**	Price	**-**	-

(continued on next page)

RAPIDKUT® 3 Flute Solid Carbide Miniature End Mills *(continued from previous page)*

Square End



							Uncoated		AlTiN		DLC	
Size	Shank Dia.	Flute Length	Flute Length x Diameter Ratio	Length Below Shank (in.)	Reach	OAL	Order No.	Price	Order No.	Price	Order No.	Price
.030	1/8	.045	1.5x	.156	5x	2-1/2	**HC4830390**	Price	**HC5037470**	Price	**HC4934720**	Price
.030	1/8	.045	1.5x	.250	8x	2-1/2	**HC4830400**	Price	**HC5037480**	Price	**HC4934730**	Price
.030	1/8	.045	1.5x	.312	10x	2-1/2	**HC4830410**	Price	**HC5037490**	Price	-	-
.030	1/8	.045	1.5x	.375	12x	2-1/2	**HC4830420**	Price	**HC5037500**	Price	**HC4934740**	Price
.030	1/8	.150	5x	-	-	2-1/2	**HC4830430**	Price	**HC5037510**	Price	**HC4934750**	Price
.030	1/8	.150	5x	.300	10x	2-1/2	**HC4830440**	Price	**HC5037520**	Price	**HC4934760**	Price
.030	1/8	.250	8x	-	-	2-1/2	**HC4830450**	Price	**HC5037530**	Price	-	-
.031	1/8	.046	1.5x	.093	3x	2-1/2	**HC4830460**	Price	**HC5037540**	Price	-	-
.031	1/8	.046	1.5x	.156	5x	2-1/2	**HC4830470**	Price	**HC5037550**	Price	**HC4934770**	Price
.031	1/8	.046	1.5x	.250	8x	2-1/2	**HC4830480**	Price	**HC5037560**	Price	**HC4934780**	Price
.031	1/8	.046	1.5x	.312	10x	2-1/2	**HC4830490**	Price	**HC5037570**	Price	-	-
.031	1/8	.046	1.5x	.375	12x	2-1/2	**HC4830500**	Price	**HC5037580**	Price	**HC4934790**	Price
.031	1/8	.046	1.5x	.470	15x	2-1/2	**HC4830510**	Price	**HC5037590**	Price	**HC4934800**	Price
.031	1/8	.046	1.5x	.565	18x	2-1/2	**HC4830520**	Price	**HC5037600**	Price	-	-
.031	1/8	.046	1.5x	.625	20x	2-1/2	**HC4830530**	Price	**HC5037610**	Price	-	-
.031	1/8	.046	1.5x	.775	25x	2-1/2	**HC4830540**	Price	**HC5037620**	Price	-	-
.031	1/8	.046	1.5x	.937	30x	2-1/2	**HC4830550**	Price	-	-	-	-
.031	1/8	.156	5x	-	-	2-1/2	**HC4830560**	Price	**HC5037630**	Price	**HC4934810**	Price
.031	1/8	.156	5x	.310	10x	2-1/2	**HC4830570**	Price	**HC5037640**	Price	**HC4934820**	Price
.031	1/8	.250	8x	-	-	2-1/2	**HC4830580**	Price	**HC5037650**	Price	**HC4934830**	Price
.031	1/8	.312	10x	-	-	2-1/2	**HC4830590**	Price	**HC5037660**	Price	-	-
.031	1/8	.375	12x	-	-	2-1/2	**HC4830600**	Price	**HC5037670**	Price	**HC4934840**	Price
.031	1/8	.470	15x	-	-	2-1/2	**HC4830610**	Price	**HC5037680**	Price	-	-
.035	1/8	.052	1.5x	.105	3x	2-1/2	**HC4830620**	Price	**HC5037690**	Price	-	-
.035	1/8	.052	1.5x	.187	5x	2-1/2	**HC4830630**	Price	**HC5037700**	Price	**HC4934850**	Price
.035	1/8	.052	1.5x	.281	8x	2-1/2	**HC4830640**	Price	**HC5037710**	Price	**HC4934860**	Price
.035	1/8	.052	1.5x	.425	12x	2-1/2	**HC4830650**	Price	**HC5037720**	Price	**HC4934870**	Price
.035	1/8	.052	1.5x	.525	15x	2-1/2	**HC4830660**	Price	**HC5037730**	Price	-	-
.035	1/8	.175	5x	-	-	2-1/2	**HC4830670**	Price	**HC5037740**	Price	**HC4934880**	Price
.035	1/8	.175	5x	.350	10x	2-1/2	**HC4830680**	Price	**HC5037750**	Price	**HC4934890**	Price
.035	1/8	.280	8x	-	-	2-1/2	**HC4830690**	Price	**HC5037760**	Price	-	-
.039	1/8	.059	1.5x	.117	3x	2-1/2	**HC4830700**	Price	**HC5037770**	Price	-	-
.039	1/8	.059	1.5x	.203	5x	2-1/2	**HC4830710**	Price	**HC5037780**	Price	-	-
.039	1/8	.059	1.5x	.325	8x	2-1/2	**HC4830720**	Price	**HC5037790**	Price	-	-
.039	1/8	.059	1.5x	.480	12x	2-1/2	**HC4830730**	Price	**HC5037800**	Price	-	-
.039	1/8	.203	5x	-	-	2-1/2	**HC4830740**	Price	**HC5037810**	Price	-	-
.040	1/8	.060	1.5x	.120	3x	2-1/2	**HC4830750**	Price	**HC5037820**	Price	-	-
.040	1/8	.060	1.5x	.203	5x	2-1/2	**HC4830760**	Price	**HC5037830**	Price	**HC4934900**	Price
.040	1/8	.060	1.5x	.325	8x	2-1/2	**HC4830770**	Price	**HC5037840**	Price	**HC4934910**	Price
.040	1/8	.060	1.5x	.400	10x	2-1/2	**HC4830780**	Price	**HC5037850**	Price	-	-
.040	1/8	.060	1.5x	.480	12x	2-1/2	**HC4830790**	Price	**HC5037860**	Price	**HC4934920**	Price
.040	1/8	.060	1.5x	.600	15x	2-1/2	**HC4830800**	Price	**HC5037870**	Price	-	-
.040	1/8	.060	1.5x	.800	20x	2-1/2	**HC4830810**	Price	**HC5037880**	Price	-	-
.040	1/8	.200	5x	-	-	2-1/2	**HC4830820**	Price	**HC5037890**	Price	**HC4934930**	Price
.040	1/8	.200	5x	.400	10x	2-1/2	**HC4830830**	Price	**HC5037900**	Price	**HC4934940**	Price
.040	1/8	.325	8x	-	-	2-1/2	**HC4830840**	Price	**HC5037910**	Price	-	-
.040	1/8	.480	12x	-	-	2-1/2	**HC4830850**	Price	**HC5037920**	Price	-	-
.045	1/8	.067	1.5x	.450	10x	2-1/2	**HC4830860**	Price	**HC5037930**	Price	-	-
.045	1/8	.067	1.5x	.550	12x	2-1/2	**HC4830870**	Price	**HC5037940**	Price	**HC4934950**	Price
.045	1/8	.067	1.5x	.680	15x	2-1/2	**HC4830880**	Price	**HC5037950**	Price	-	-
.045	1/8	.067	1.5x	.900	20x	2-1/2	**HC4830890**	Price	**HC5037960**	Price	-	-
.045	1/8	.225	5x	-	-	2-1/2	**HC4830900**	Price	**HC5037970**	Price	**HC4934960**	Price
.045	1/8	.375	8x	-	-	2-1/2	**HC4830910**	Price	**HC5037980**	Price	-	-
.045	1/8	.550	12x	-	-	2-1/2	**HC4830920**	Price	**HC5037990**	Price	-	-
.047	1/8	.070	1.5x	.141	3x	2-1/2	**HC4830930**	Price	**HC5038000**	Price	-	-
.047	1/8	.070	1.5x	.250	5x	2-1/2	**HC4830940**	Price	**HC5038010**	Price	**HC4934970**	Price
.047	1/8	.070	1.5x	.375	8x	2-1/2	**HC4830950**	Price	**HC5038020**	Price	**HC4934980**	Price
.047	1/8	.070	1.5x	.480	10x	2-1/2	**HC4830960**	Price	**HC5038030**	Price	-	-
.047	1/8	.070	1.5x	.570	12x	2-1/2	**HC4830970**	Price	**HC5038040**	Price	**HC4934990**	Price
.047	1/8	.070	1.5x	.710	15x	2-1/2	**HC4830980**	Price	**HC5038050**	Price	-	-
.047	1/8	.070	1.5x	.850	18x	2-1/2	**HC4830990**	Price	**HC5038060**	Price	-	-
.047	1/8	.070	1.5x	.950	20x	2-1/2	**HC4831000**	Price	**HC5038070**	Price	-	-
.047	1/8	.250	5x	-	-	2-1/2	**HC4831010**	Price	**HC5038080**	Price	**HC4935000**	Price
.047	1/8	.250	5x	.500	10x	2-1/2	**HC4831020**	Price	**HC5038090**	Price	**HC4935010**	Price
.047	1/8	.375	8x	-	-	2-1/2	**HC4831030**	Price	**HC5038100**	Price	**HC4935020**	Price
.047	1/8	.480	10x	-	-	2-1/2	**HC4831040**	Price	**HC5038110**	Price	-	-
.047	1/8	.570	12x	-	-	2-1/2	**HC4831050**	Price	**HC5038120**	Price	**HC4935030**	Price
.047	1/8	.710	15x	-	-	2-1/2	**HC4831060**	Price	**HC5038130**	Price	-	-
.050	1/8	.075	1.5x	.150	3x	2-1/2	**HC4831070**	Price	**HC5038140**	Price	-	-
.050	1/8	.075	1.5x	.250	5x	2-1/2	**HC4831080**	Price	**HC5038150**	Price	**HC4935040**	Price
.050	1/8	.075	1.5x	.400	8x	2-1/2	**HC4831090**	Price	**HC5038160**	Price	**HC4935050**	Price
.050	1/8	.075	1.5x	.500	10x	2-1/2	**HC4831100**	Price	**HC5038170**	Price	-	-
.050	1/8	.075	1.5x	.600	12x	2-1/2	**HC4831110**	Price	**HC5038180**	Price	**HC4935060**	Price
.050	1/8	.075	1.5x	.750	15x	2-1/2	**HC4831120**	Price	**HC5038190**	Price	-	-
.050	1/8	.300	6x	-	-	2-1/2	**HC4831130**	Price	**HC5038200**	Price	**HC4935070**	Price
.050	1/8	.400	8x	-	-	2-1/2	**HC4831140**	Price	**HC5038210**	Price	-	-
.050	1/8	.600	12x	-	-	2-1/2	**HC4831150**	Price	**HC5038220**	Price	-	-

(Continued on next page)

RAPIDKUT® 3 Flute Solid Carbide Miniature End Mills *(continued from previous page)*

Square End



							Uncoated		AlTiN		DLC	
Size	Shank Dia.	Flute Length	Flute Length x Diameter Ratio	Length Below Shank (in.)	Reach	OAL	Order No.	Price	Order No.	Price	Order No.	Price
.055	1/8	.082	1.5x	.165	3x	2-1/2	**HC4831160**	Price	**HC5038230**	Price	**-**	-
.055	1/8	.082	1.5x	.275	5x	2-1/2	**HC4831170**	Price	**HC5038240**	Price	**HC4935080**	Price
.055	1/8	.082	1.5x	.450	8x	2-1/2	**HC4831180**	Price	**HC5038250**	Price	**HC4935090**	Price
.055	1/8	.082	1.5x	.560	10x	2-1/2	**HC4831190**	Price	**HC5038260**	Price	**-**	-
.055	1/8	.082	1.5x	.660	12x	2-1/2	**HC4831200**	Price	**HC5038270**	Price	**HC4935100**	Price
.055	1/8	.082	1.5x	.825	15x	2-1/2	**HC4831210**	Price	**HC5038280**	Price	**-**	-
.055	1/8	.275	5x	-	-	2-1/2	**HC4831220**	Price	**HC5038290**	Price	**-**	-
.055	1/8	.385	7x	-	-	2-1/2	**HC4831230**	Price	**HC5038300**	Price	**HC4935110**	Price
.055	1/8	.385	7x	.770	14x	2-1/2	**HC4831240**	Price	**HC5038310**	Price	**HC4935120**	Price
.055	1/8	.660	12x	-	-	2-1/2	**HC4831250**	Price	**HC5038320**	Price	**-**	-
.060	1/8	.090	1.5x	.180	3x	2-1/2	**HC4831260**	Price	**HC5038330**	Price	**-**	-
.060	1/8	.090	1.5x	.312	5x	2-1/2	**HC4831270**	Price	**HC5038340**	Price	**HC4935130**	Price
.060	1/8	.090	1.5x	.500	8x	2-1/2	**HC4831280**	Price	**HC5038350**	Price	**HC4935140**	Price
.060	1/8	.090	1.5x	.625	10x	2-1/2	**HC4831290**	Price	**HC5038360**	Price	**-**	-
.060	1/8	.090	1.5x	.720	12x	2-1/2	**HC4831300**	Price	**HC5038370**	Price	**HC4935150**	Price
.060	1/8	.090	1.5x	.900	15x	2-1/2	**HC4831310**	Price	**HC5038380**	Price	**-**	-
.060	1/8	.312	5x	-	-	2-1/2	**HC4831320**	Price	**HC5038390**	Price	**-**	-
.060	1/8	.500	8x	-	-	2-1/2	**HC4831330**	Price	**HC5038400**	Price	**HC4935160**	Price
.062	1/8	.093	1.5x	.186	3x	2-1/2	**HC4831340**	Price	**HC5038410**	Price	**-**	-
.062	1/8	.093	1.5x	.312	5x	2-1/2	**HC4831350**	Price	**HC5038420**	Price	**HC4935170**	Price
.062	1/8	.093	1.5x	.500	8x	2-1/2	**HC4831360**	Price	**HC5038430**	Price	**HC4935180**	Price
.062	1/8	.093	1.5x	.625	10x	2-1/2	**HC4831370**	Price	**HC5038440**	Price	**-**	-
.062	1/8	.093	1.5x	.750	12x	2-1/2	**HC4831380**	Price	**HC5038450**	Price	**HC4935190**	Price
.062	1/8	.093	1.5x	.950	15x	2-1/2	**HC4831390**	Price	**HC5038460**	Price	**HC4935200**	Price
.062	1/8	.093	1.5x	1.125	18x	2-1/2	**HC4831400**	Price	**HC5038470**	Price	**-**	-
.062	1/8	.093	1.5x	1.250	20x	2-1/2	**HC4831410**	Price	**HC5038480**	Price	**-**	-
.062	1/8	.093	1.5x	1.375	22x	3	**HC4831420**	Price	**HC5038490**	Price	**-**	-
.062	1/8	.093	1.5x	1.550	25x	3	**HC4831430**	Price	**HC5038500**	Price	**-**	-
.062	1/8	.312	5x	-	-	2-1/2	**HC4831440**	Price	**HC5038510**	Price	**HC4935210**	Price
.062	1/8	.500	8x	-	-	2-1/2	**HC4831450**	Price	**HC5038520**	Price	**HC4935220**	Price
.062	1/8	.500	8x	1.000	16x	2-1/2	**HC4831460**	Price	**HC5038530**	Price	**HC4935230**	Price
.062	1/8	.625	10x	-	-	2-1/2	**HC4831470**	Price	**HC5038540**	Price	**-**	-
.062	1/8	.750	12x	-	-	2-1/2	**HC4831480**	Price	**HC5038550**	Price	**HC4935240**	Price
.062	1/8	.950	15x	-	-	2-1/2	**HC4831490**	Price	**HC5038560**	Price	**HC4935250**	Price
.065	1/8	.097	1.5x	.325	5x	2-1/2	**HC4831500**	Price	**HC5038570**	Price	**-**	-
.065	1/8	.097	1.5x	.530	8x	2-1/2	**HC4831510**	Price	**HC5038580**	Price	**HC4935260**	Price
.065	1/8	.097	1.5x	.800	12x	2-1/2	**HC4831520**	Price	**HC5038590**	Price	**-**	-
.065	1/8	.325	5x	-	-	2-1/2	**HC4831530**	Price	**HC5038600**	Price	**-**	-
.065	1/8	.500	8x	-	-	2-1/2	**HC4831540**	Price	**HC5038610**	Price	**HC4935270**	Price
.070	1/8	.105	1.5x	.375	5x	2-1/2	**HC4831550**	Price	**HC5038620**	Price	**-**	-
.070	1/8	.105	1.5x	.570	8x	2-1/2	**HC4831560**	Price	**HC5038630**	Price	**HC4935280**	Price
.070	1/8	.105	1.5x	.850	12x	2-1/2	**HC4831570**	Price	**HC5038640**	Price	**-**	-
.070	1/8	.105	1.5x	1.062	15x	2-1/2	**HC4831580**	Price	**HC5038650**	Price	**-**	-
.070	1/8	.375	5x	-	-	2-1/2	**HC4831590**	Price	**HC5038660**	Price	**-**	-
.070	1/8	.500	7x	-	-	2-1/2	**HC4831600**	Price	**HC5038670**	Price	**HC4935290**	Price
.070	1/8	.500	7x	1.000	14x	2-1/2	**HC4831610**	Price	**HC5038680**	Price	**HC4935300**	Price
.075	1/8	.112	1.5x	.375	5x	2-1/2	**HC4831620**	Price	**HC5038690**	Price	**-**	-
.075	1/8	.112	1.5x	.625	8x	2-1/2	**HC4831630**	Price	**HC5038700**	Price	**HC4935310**	Price
.075	1/8	.112	1.5x	.900	12x	2-1/2	**HC4831640**	Price	**HC5038710**	Price	**-**	-
.075	1/8	.375	5x	-	-	2-1/2	**HC4831650**	Price	**HC5038720**	Price	**-**	-
.075	1/8	.500	7x	-	-	2-1/2	**HC4831660**	Price	**HC5038730**	Price	**HC4935320**	Price
.078	1/8	.117	1.5x	.234	3x	2-1/2	**HC4831670**	Price	**HC5038740**	Price	**-**	-
.078	1/8	.117	1.5x	.406	5x	2-1/2	**HC4831680**	Price	**HC5038750**	Price	**HC4935330**	Price
.078	1/8	.117	1.5x	.625	8x	2-1/2	**HC4831690**	Price	**HC5038760**	Price	**HC4935340**	Price
.078	1/8	.117	1.5x	.800	10x	2-1/2	**HC4831700**	Price	**HC5038770**	Price	**-**	-
.078	1/8	.117	1.5x	.940	12x	2-1/2	**HC4831710**	Price	**HC5038780**	Price	**HC4935350**	Price
.078	1/8	.117	1.5x	1.187	15x	2-1/2	**HC4831720**	Price	**HC5038790**	Price	**-**	-
.078	1/8	.117	1.5x	1.562	20x	3	**HC4831730**	Price	**HC5038800**	Price	**-**	-
.078	1/8	.406	5x	-	-	2-1/2	**HC4831740**	Price	**HC5038810**	Price	**HC4935360**	Price
.078	1/8	.500	6x	1.000	12x	2-1/2	**HC4831750**	Price	**HC5038820**	Price	**HC4935370**	Price
.078	1/8	.625	8x	-	-	2-1/2	**HC4831760**	Price	**HC5038830**	Price	**HC4935380**	Price
.078	1/8	.800	10x	-	-	2-1/2	**HC4831770**	Price	**HC5038840**	Price	**-**	-
.078	1/8	.940	12x	-	-	2-1/2	**HC4831780**	Price	**HC5038850**	Price	**HC4935390**	Price
.078	1/8	1.187	15x	-	-	2-1/2	**HC4831790**	Price	**HC5038860**	Price	**HC4935400**	Price
.080	1/8	.120	1.5x	.406	5x	2-1/2	**HC4831800**	Price	**HC5038870**	Price	**-**	-
.080	1/8	.120	1.5x	.650	8x	2-1/2	**HC4831810**	Price	**HC5038880**	Price	**HC4935410**	Price
.080	1/8	.120	1.5x	.960	12x	2-1/2	**HC4831820**	Price	**HC5038890**	Price	**-**	-
.080	1/8	.406	5x	-	-	2-1/2	**HC4831830**	Price	**HC5038900**	Price	**-**	-
.080	1/8	.750	9x	-	-	2-1/2	**HC4831840**	Price	**HC5038910**	Price	**HC4935420**	Price
.080	1/8	.750	9x	1.250	15x	2-1/2	**HC4831850**	Price	**HC5038920**	Price	**HC4935430**	Price
.080	1/8	.960	12x	-	-	2-1/2	**HC4831860**	Price	**HC5038930**	Price	**-**	-
.085	1/8	.127	1.5x	.425	5x	2-1/2	**HC4831870**	Price	**HC5038940**	Price	**-**	-
.085	1/8	.127	1.5x	.700	8x	2-1/2	**HC4831880**	Price	**HC5038950**	Price	**HC4935440**	Price
.085	1/8	.127	1.5x	1.020	12x	2-1/2	**HC4831890**	Price	**HC5038960**	Price	**-**	-
.085	1/8	.425	5x	-	-	2-1/2	**HC4831900**	Price	**HC5038970**	Price	**-**	-
.085	1/8	.750	9x	-	-	2-1/2	**HC4831910**	Price	**HC5038980**	Price	**HC4935450**	Price
.085	1/8	.750	9x	1.250	14x	2-1/2	**HC4831920**	Price	**HC5038990**	Price	**HC4935460**	Price

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RAPIDKUT® 3 Flute Solid Carbide Miniature End Mills *(continued from previous page)*

Square End



							Uncoated		AlTiN		DLC	
Size	Shank Dia.	Flute Length	Flute Length x Diameter Ratio	Length Below Shank (in.)	Reach	OAL	Order No.	Price	Order No.	Price	Order No.	Price
.090	1/8	.135	1.5x	.450	5x	2-1/2	**HC4831930**	Price	**HC5039000**	Price	**-**	-
.090	1/8	.135	1.5x	.750	8x	2-1/2	**HC4831940**	Price	**HC5039010**	Price	**HC4935470**	Price
.090	1/8	.135	1.5x	1.080	12x	2-1/2	**HC4831950**	Price	**HC5039020**	Price	**-**	-
.090	1/8	.450	5x	-	-	2-1/2	**HC4831960**	Price	**HC5039030**	Price	**-**	-
.090	1/8	.750	8x	-	-	2-1/2	**HC4831970**	Price	**HC5039040**	Price	**HC4935480**	Price
.090	1/8	.750	8x	1.250	13x	2-1/2	**HC4831980**	Price	**HC5039050**	Price	**HC4935490**	Price
.090	1/8	1.080	12x	-	-	2-1/2	**HC4831990**	Price	**HC5039060**	Price	**-**	-
.093	1/8	.139	1.5x	.279	3x	2-1/2	**HC4832000**	Price	**HC5039070**	Price	**-**	-
.093	1/8	.139	1.5x	.500	5x	2-1/2	**HC4832010**	Price	**HC5039080**	Price	**HC4935500**	Price
.093	1/8	.139	1.5x	.750	8x	2-1/2	**HC4832020**	Price	**HC5039090**	Price	**HC4935510**	Price
.093	1/8	.139	1.5x	.950	10x	2-1/2	**HC4832030**	Price	**HC5039100**	Price	**-**	-
.093	1/8	.139	1.5x	1.125	12x	2-1/2	**HC4832040**	Price	**HC5039110**	Price	**HC4935520**	Price
.093	1/8	.139	1.5x	1.400	15x	3	**HC4832050**	Price	**HC5039120**	Price	**HC4935530**	Price
.093	1/8	.139	1.5x	1.675	18x	3	**HC4832060**	Price	**HC5039130**	Price	**-**	-
.093	1/8	.139	1.5x	1.875	20x	4	**HC4832070**	Price	**HC5039140**	Price	**-**	-
.093	1/8	.500	5x	-	-	2-1/2	**HC4832080**	Price	**HC5039150**	Price	**HC4935540**	Price
.093	1/8	.750	8x	-	-	2-1/2	**HC4832090**	Price	**HC5039160**	Price	**HC4935550**	Price
.093	1/8	.750	8x	1.250	13x	2-1/2	**HC4832100**	Price	**HC5039170**	Price	**HC4935560**	Price
.093	1/8	.950	10x	-	-	2-1/2	**HC4832110**	Price	**HC5039180**	Price	**-**	-
.093	1/8	1.125	12x	-	-	2-1/2	**HC4832120**	Price	**HC5039190**	Price	**HC4935570**	Price
.093	1/8	1.400	15x	-	-	3	**HC4832130**	Price	**HC5039200**	Price	**HC4935580**	Price
.095	1/8	.142	1.5x	.500	5x	2-1/2	**HC4832140**	Price	**HC5039210**	Price	**-**	-
.095	1/8	.142	1.5x	.750	8x	2-1/2	**HC4832150**	Price	**HC5039220**	Price	**HC4935590**	Price
.095	1/8	.142	1.5x	1.150	12x	2-1/2	**HC4832160**	Price	**HC5039230**	Price	**-**	-
.100	1/8	.150	1.5x	.500	5x	2-1/2	**HC4832170**	Price	**HC5039240**	Price	**-**	-
.100	1/8	.150	1.5x	.800	8x	2-1/2	**HC4832180**	Price	**HC5039250**	Price	**HC4935600**	Price
.100	1/8	.150	1.5x	1.200	12x	2-1/2	**HC4832190**	Price	**HC5039260**	Price	**-**	-
.100	1/8	.150	1.5x	1.500	15x	3	**HC4832200**	Price	**HC5039270**	Price	**-**	-
.100	1/8	.500	5x	-	-	2-1/2	**HC4832210**	Price	**HC5039280**	Price	**-**	-
.100	1/8	.750	7.5x	-	-	2-1/2	**HC4832220**	Price	**HC5039290**	Price	**HC4935610**	Price
.100	1/8	.750	7.5x	1.250	12x	2-1/2	**HC4832230**	Price	**HC5039300**	Price	**HC4935620**	Price
.100	1/8	1.200	12x	-	-	2-1/2	**HC4832240**	Price	**HC5039310**	Price	**-**	-
.109	1/8	.163	1.5x	.570	5x	2-1/2	**HC4832250**	Price	**HC5039320**	Price	**-**	-
.109	1/8	.163	1.5x	.900	8x	2-1/2	**HC4832260**	Price	**HC5039330**	Price	**-**	-
.109	1/8	.570	5x	-	-	2-1/2	**HC4832270**	Price	**HC5039340**	Price	**-**	-
.109	1/8	.900	8x	-	-	2-1/2	**HC4832280**	Price	**HC5039350**	Price	**-**	-
.118	1/8	.177	1.5x	.625	5x	2-1/2	**HC4832290**	Price	**HC5039360**	Price	**-**	-
.118	1/8	.177	1.5x	.950	8x	2-1/2	**HC4832300**	Price	**HC5039370**	Price	**-**	-
.118	1/8	.177	1.5x	1.420	12x	3	**HC4832310**	Price	**HC5039380**	Price	**-**	-
.118	1/8	.625	5x	-	-	2-1/2	**HC4832320**	Price	**HC5039390**	Price	**-**	-
.118	1/8	.950	8x	-	-	2-1/2	**HC4832330**	Price	**HC5039400**	Price	**-**	-
.125	1/8	.187	1.5x	.375	3x	2-1/2	**HC4832340**	Price	**HC5039410**	Price	**-**	-
.125	1/8	.187	1.5x	.625	5x	2-1/2	**HC4832350**	Price	**HC5039420**	Price	**HC4935630**	Price
.125	1/8	.187	1.5x	1.000	8x	2-1/2	**HC4832360**	Price	**HC5039430**	Price	**HC4935640**	Price
.125	1/8	.187	1.5x	1.250	10x	2-1/2	**HC4832370**	Price	**HC5039440**	Price	**-**	-
.125	1/8	.187	1.5x	1.500	12x	3	**HC4832380**	Price	**HC5039450**	Price	**HC4935650**	Price
.125	1/8	.187	1.5x	1.875	15x	3	**HC4832390**	Price	**HC5039460**	Price	**-**	-
.125	1/8	.187	1.5x	2.250	18x	4	**HC4832400**	Price	**HC5039470**	Price	**-**	-
.125	1/8	.187	1.5x	2.500	20x	4	**HC4832410**	Price	**HC5039480**	Price	**-**	-
.125	1/8	.187	1.5x	3.125	25x	4	**HC4832420**	Price	**HC5039490**	Price	**-**	-
.125	1/8	.625	5x	-	-	2-1/2	**HC4832430**	Price	**HC5039500**	Price	**HC4935660**	Price
.125	1/8	1	8x	-	-	2-1/2	**HC4832440**	Price	**HC5039510**	Price	**HC4935670**	Price
.125	1/8	1	8x	1.500	12x	2-1/2	**HC4832450**	Price	**HC5039520**	Price	**HC4935680**	Price
.125	1/8	1.250	10x	-	-	2-1/2	**HC4832460**	Price	**HC5039530**	Price	**-**	-
.125	1/8	1.500	12x	-	-	3	**HC4832470**	Price	**HC5039540**	Price	**HC4935690**	Price
.125	1/8	1.875	15x	-	-	3	**HC4832480**	Price	**HC5039550**	Price	**HC4935700**	Price
.140	3/16	.211	1.5x	.750	5x	3	**HC4832490**	Price	**HC5039560**	Price	**-**	-
.140	3/16	.211	1.5x	1.125	8x	3	**HC4832500**	Price	**HC5039570**	Price	**-**	-
.156	3/16	.234	1.5x	.470	3x	3	**HC4832510**	Price	**HC5039580**	Price	**-**	-
.156	3/16	.234	1.5x	.750	5x	3	**HC4832520**	Price	**HC5039590**	Price	**-**	-
.156	3/16	.234	1.5x	1.250	8x	3	**HC4832530**	Price	**HC5039600**	Price	**-**	-
.156	3/16	.234	1.5x	1.875	12x	4	**HC4832540**	Price	**HC5039610**	Price	**-**	-
.156	3/16	.234	1.5x	2.375	15x	4	**HC4832550**	Price	**HC5039620**	Price	**-**	-
.187	3/16	.281	1.5x	.570	3x	3	**HC4832560**	Price	**HC5039630**	Price	**-**	-
.187	3/16	.281	1.5x	1.000	5x	3	**HC4832570**	Price	**HC5039640**	Price	**HC4935710**	Price
.187	3/16	.281	1.5x	1.500	8x	3	**HC4832580**	Price	**HC5039650**	Price	**HC4935720**	Price
.187	3/16	.281	1.5x	1.875	10x	4	**HC4832590**	Price	**HC5039660**	Price	**-**	-
.187	3/16	.281	1.5x	2.250	12x	4	**HC4832600**	Price	**HC5039670**	Price	**HC4935730**	Price
.187	3/16	.281	1.5x	2.812	15x	4	**HC4832610**	Price	**HC5039680**	Price	**-**	-
.187	3/16	.281	1.5x	3.750	20x	6	**HC4832620**	Price	**HC5039690**	Price	**-**	-
.187	3/16	1.125	6x	1.625	8x	3	**HC4832630**	Price	**HC5039700**	Price	**HC4935740**	Price
.250	1/4	.375	1.5x	1.250	5x	4	**HC4832640**	Price	**HC5039710**	Price	**HC4935750**	Price
.250	1/4	.375	1.5x	2.000	8x	4	**HC4832650**	Price	**HC5039720**	Price	**HC4935760**	Price
.250	1/4	.375	1.5x	2.500	10x	4	**HC4832660**	Price	**HC5039730**	Price	**-**	-
.250	1/4	.375	1.5x	3.000	12x	6	**HC4832670**	Price	**HC5039740**	Price	**HC4935770**	Price
.250	1/4	.375	1.5x	3.750	15x	6	**HC4832680**	Price	**HC5039750**	Price	**-**	-
.250	1/4	1.500	6x	2.000	8x	4	**HC4832690**	Price	**HC5039760**	Price	**HC4935780**	Price

RAPIDKUT 3 Flute Variable Pitch End Mills

Solid Carbide • Variable Helix



- Micrograin carbide
- nACRo coated

Size	Shank Dia.	Flute Length	OAL	Radius	Reach	Order No.	Price
.031	1/8	.046	1-1/2	.005	-	**HC5230100**	Price
.031	1/8	.046	2-1/2	.005	.156	**HC5230105**	Price
.031	1/8	.046	2-1/2	.005	.250	**HC5230110**	Price
.031	1/8	.093	1-1/2	None	-	**HC5230115**	Price
.031	1/8	.093	1-1/2	.005	-	**HC5230120**	Price
.031	1/8	.156	2-1/2	.005	-	**HC5230125**	Price
.047	1/8	.070	1-1/2	.005	-	**HC5230130**	Price
.047	1/8	.070	2-1/2	.005	.250	**HC5230135**	Price
.047	1/8	.070	2-1/2	.005	.375	**HC5230140**	Price
.047	1/8	.141	1-1/2	None	-	**HC5230145**	Price
.047	1/8	.141	1-1/2	.005	-	**HC5230150**	Price
.047	1/8	.250	2-1/2	.005	-	**HC5230155**	Price
.055	1/8	.083	1-1/2	.005	-	**HC5230160**	Price
.055	1/8	.165	1-1/2	.005	-	**HC5230165**	Price
.055	1/8	.275	1-1/2	.005	-	**HC5230170**	Price
.062	1/8	.093	1-1/2	.010	-	**HC5230175**	Price
.062	1/8	.093	2-1/2	.010	.312	**HC5230180**	Price
.062	1/8	.093	2-1/2	.010	.500	**HC5230185**	Price
.062	1/8	.186	1-1/2	None	-	**HC5230190**	Price
.062	1/8	.186	1-1/2	.010	-	**HC5230195**	Price
.062	1/8	.312	2-1/2	.010	-	**HC5230200**	Price
.078	1/8	.177	1-1/2	.010	-	**HC5230205**	Price
.078	1/8	.234	1-1/2	None	-	**HC5230210**	Price
.078	1/8	.234	1-1/2	.010	-	**HC5230215**	Price
.093	1/8	.140	1-1/2	.010	-	**HC5230220**	Price
.093	1/8	.140	2-1/2	.010	.500	**HC5230225**	Price
.093	1/8	.140	2-1/2	.010	.750	**HC5230230**	Price
.093	1/8	.279	1-1/2	None	-	**HC5230235**	Price
.093	1/8	.279	1-1/2	.010	-	**HC5230240**	Price
.093	1/8	.500	2-1/2	.010	-	**HC5230245**	Price
1.5mm	4mm	2.2mm	50mm	0.20mm	-	**HC5230250**	Price
1.5mm	4mm	2.2mm	50mm	0.20mm	12mm	**HC5230255**	Price
1.5mm	4mm	2.2mm	50mm	0.20mm	7.5mm	**HC5230260**	Price
1.5mm	4mm	4.5mm	50mm	0.20mm	-	**HC5230265**	Price
1.6mm	4mm	2.4mm	50mm	0.20mm	-	**HC5230270**	Price
1.6mm	4mm	5mm	50mm	0.20mm	-	**HC5230275**	Price
1mm	4mm	1.5mm	50mm	0.10mm	-	**HC5230280**	Price
1mm	4mm	1.5mm	50mm	0.10mm	5mm	**HC5230285**	Price
1mm	4mm	1.5mm	50mm	0.10mm	8mm	**HC5230290**	Price
1mm	4mm	3mm	50mm	0.10mm	-	**HC5230295**	Price
2mm	4mm	3mm	50mm	0.20mm	-	**HC5230305**	Price
2mm	4mm	3mm	50mm	0.20mm	10mm	**HC5230310**	Price
2mm	4mm	3mm	50mm	0.20mm	16mm	**HC5230315**	Price
2mm	4mm	6mm	50mm	0.20mm	-	**HC5230320**	Price
2.5mm	4mm	3.8mm	50mm	0.20mm	-	**HC5230300**	Price
3mm	4mm	4.5mm	50mm	0.20mm	-	**HC5230325**	Price
3mm	4mm	4.5mm	50mm	0.20mm	15mm	**HC5230330**	Price
3mm	4mm	9mm	50mm	0.20mm	-	**HC5230335**	Price

RAPIDKUT 4 Flute Solid Carbide End Mills

Square • Radius End



- CVD coated

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price
.015	1/8	.023	1-1/2	None	**HC5310015**	Price
.015	1/8	.045	1-1/2	None	**HC5310017**	Price
.020	1/8	.060	1-1/2	None	**HC5310020**	Price
1/32	1/8	.047	1-1/2	None	**HC5310031**	Price
1/32	1/8	.093	1-1/2	None	**HC5310035**	Price
1/32	1/8	.093	1-1/2	.005	**HC5330031**	Price
.039	1/8	.117	1-1/2	None	**HC5310039**	Price
.040	1/8	.120	1-1/2	None	**HC5310040**	Price
3/64	1/8	.071	1-1/2	None	**HC5310046**	Price
3/64	1/8	.141	1-1/2	None	**HC5310048**	Price
3/64	1/8	.141	1-1/2	.005	**HC5330046**	Price
.050	1/8	.150	1-1/2	None	**HC5310050**	Price
.060	1/8	.180	1-1/2	None	**HC5310060**	Price
1/16	1/8	.093	1-1/2	None	**HC5310062**	Price
1/16	1/8	.186	1-1/2	None	**HC5310065**	Price
1/16	1/8	.186	1-1/2	.010	**HC5330062**	Price
5/64	1/8	.117	1-1/2	None	**HC5310078**	Price
5/64	1/8	.234	1-1/2	None	**HC5310080**	Price
5/64	1/8	.234	1-1/2	.010	**HC5330078**	Price
3/32	1/8	.140	1-1/2	None	**HC5310093**	Price
3/32	1/8	.279	1-1/2	None	**HC5310095**	Price
3/32	1/8	.279	1-1/2	.010	**HC5330093**	Price
.100	1/8	.300	1-1/2	None	**HC5310100**	Price
.118	1/8	.354	1-1/2	None	**HC5310118**	Price
1/8	1/8	.187	1-1/2	None	**HC5310125**	Price
1/8	1/8	.375	1-1/2	None	**HC5310127**	Price
1/8	1/8	.500	1-1/2	None	**HC5310129**	Price
1/8	1/8	.500	1-1/2	.015	**HC5330125**	Price
.156	3/16	.470	2	None	**HC5310156**	Price
3/16	3/16	.625	2	None	**HC5310187**	Price
3/16	3/16	.625	2	.020	**HC5330187**	Price
1/4	1/4	.750	2-1/2	None	**HC5310250**	Price
1/4	1/4	.750	2-1/2	.020	**HC5330250**	Price
1/4	1/4	.750	2-1/2	.030	**HC5330255**	Price
5/16	5/16	.8125	2-1/2	None	**HC5310312**	Price
3/8	3/8	1.000	2-1/2	None	**HC5310375**	Price
3/8	3/8	1.000	2-1/2	.020	**HC5330375**	Price
3/8	3/8	1.000	2-1/2	.030	**HC5330380**	Price
1/2	1/2	1.000	3	.020	**HC5330500**	Price
1/2	1/2	1.000	3	.030	**HC5330505**	Price
1/2	1/2	1.000	3	.060	**HC5330510**	Price

RAPIDKUT 3 Flute Solid Carbide Miniature End Mills

Ball Nose



- Center cutting
- 30° Helix
- Good for materials less than HRc 48
- Tolerance +/- .0005" < 1/8 +.000 - .002" > 1/8

AlTiN coating is ideal for high temperature cutting operations in many materials such as titanium and nickel alloys, Co-Cr-Mo, stainless steel, alloy steels and cast iron

PCD (Amorphous DLC) Diamond coating for increased lubricity in non-ferrous materials

							Uncoated		AlTiN		DLC	
Size	Shank Dia.	Flute Length	Flute Length x Diameter Ratio	Length Below Shank	Reach	OAL	Order No.	Price	Order No.	Price	Order No.	Price
.010	1/8	.015	1.5x	.050	5x	2-1/2	**HC4832700**	Price	**HC5039770**	Price	**HC4935790**	Price
.010	1/8	.015	1.5x	.080	8x	2-1/2	**HC4832710**	Price	**HC5039780**	Price	**HC4935800**	Price
.010	1/8	.015	1.5x	.125	12x	2-1/2	**HC4832720**	Price	**HC5039790**	Price	**HC4935810**	Price
.010	1/8	.015	1.5x	.150	15x	2-1/2	**HC4832730**	Price	**HC5039800**	Price	**HC4935820**	Price
.010	1/8	.050	5x	-	-	2-1/2	**HC4832740**	Price	**HC5039810**	Price	**HC4935830**	Price
.010	1/8	.050	5x	.100	10x	2-1/2	**HC4832750**	Price	**HC5039820**	Price	**HC4935840**	Price
.015	1/8	.022	1.5x	.045	3x	2-1/2	**HC4832760**	Price	**HC5039830**	Price	-	-
.015	1/8	.022	1.5x	.078	5x	2-1/2	**HC4832770**	Price	**HC5039840**	Price	**HC4935850**	Price
.015	1/8	.022	1.5x	.125	8x	2-1/2	**HC4832780**	Price	**HC5039850**	Price	**HC4935860**	Price
.015	1/8	.022	1.5x	.156	10x	2-1/2	**HC4832790**	Price	**HC5039860**	Price	**HC4935870**	Price
.015	1/8	.022	1.5x	.187	12x	2-1/2	**HC4832800**	Price	**HC5039870**	Price	**HC4935880**	Price
.015	1/8	.022	1.5x	.225	15x	2-1/2	**HC4832810**	Price	**HC5039880**	Price	**HC4935890**	Price
.015	1/8	.022	1.5x	.300	20x	2-1/2	**HC4832820**	Price	**HC5039890**	Price	**HC4935900**	Price
.015	1/8	.078	5x	-	-	2-1/2	**HC4832830**	Price	**HC5039900**	Price	**HC4935910**	Price
.015	1/8	.078	5x	.150	10x	2-1/2	**HC4832840**	Price	**HC5039910**	Price	**HC4935920**	Price

(continued on next page)

RAPIDKUT® 3 Flute Solid Carbide Miniature End Mills *(continued from previous page)*

Ball Nose



							Uncoated		AlTiN		DLC	
Size	Shank Dia.	Flute Length	Flute Length x Diameter Ratio	Length Below Shank	Reach	OAL	Order No.	Price	Order No.	Price	Order No.	Price
.015	1/8	.125	8x	-	-	2-1/2	HC4832850	Price	HC5039920	Price	HC4935930	Price
.020	1/8	.030	1.5x	.060	3x	2-1/2	HC4832860	Price	HC5039930	Price	-	-
.020	1/8	.030	1.5x	.100	5x	2-1/2	HC4832870	Price	HC5039940	Price	HC4935940	Price
.020	1/8	.030	1.5x	.160	8x	2-1/2	HC4832880	Price	HC5039950	Price	HC4935950	Price
.020	1/8	.030	1.5x	.200	10x	2-1/2	HC4832890	Price	HC5039960	Price	-	-
.020	1/8	.030	1.5x	.250	12x	2-1/2	HC4832900	Price	HC5039970	Price	HC4935960	Price
.020	1/8	.030	1.5x	.300	15x	2-1/2	HC4832910	Price	HC5039980	Price	HC4935970	Price
.020	1/8	.030	1.5x	.400	20x	2-1/2	HC4832920	Price	HC5039990	Price	-	-
.020	1/8	.100	5x	-	-	2-1/2	HC4832930	Price	HC5040000	Price	HC4935980	Price
.020	1/8	.100	5x	.200	10x	2-1/2	HC4832940	Price	HC5040010	Price	HC4935990	Price
.020	1/8	.160	8x	-	-	2-1/2	HC4832950	Price	HC5040020	Price	-	-
.025	1/8	.037	1.5x	.075	3x	2-1/2	HC4832960	Price	HC5040030	Price	-	-
.025	1/8	.037	1.5x	.125	5x	2-1/2	HC4832970	Price	HC5040040	Price	HC4936000	Price
.025	1/8	.037	1.5x	.203	8x	2-1/2	HC4832980	Price	HC5040050	Price	HC4936010	Price
.025	1/8	.037	1.5x	.312	12x	2-1/2	HC4832990	Price	HC5040060	Price	HC4936020	Price
.025	1/8	.037	1.5x	.375	15x	2-1/2	HC4833000	Price	HC5040070	Price	HC4936030	Price
.030	1/8	.045	1.5x	.156	5x	2-1/2	HC4833010	Price	HC5040080	Price	HC4936040	Price
.030	1/8	.045	1.5x	.250	8x	2-1/2	HC4833020	Price	HC5040090	Price	HC4936050	Price
.030	1/8	.045	1.5x	.375	12x	2-1/2	HC4833030	Price	HC5040100	Price	HC4936060	Price
.030	1/8	.045	1.5x	.450	15x	2-1/2	HC4833040	Price	HC5040110	Price	-	-
.030	1/8	.150	5x	-	-	2-1/2	HC4833050	Price	HC5040120	Price	HC4936070	Price
.030	1/8	.150	5x	.300	10x	2-1/2	HC4833060	Price	HC5040130	Price	HC4936080	Price
.031	1/8	.046	1.5x	.093	3x	2-1/2	HC4833070	Price	HC5040140	Price	HC4936090	Price
.031	1/8	.046	1.5x	.156	5x	2-1/2	HC4833080	Price	HC5040150	Price	HC4936100	Price
.031	1/8	.046	1.5x	.250	8x	2-1/2	HC4833090	Price	HC5040160	Price	HC4936110	Price
.031	1/8	.046	1.5x	.312	10x	2-1/2	HC4833100	Price	HC5040170	Price	HC4936120	Price
.031	1/8	.046	1.5x	.375	12x	2-1/2	HC4833110	Price	HC5040180	Price	HC4936130	Price
.031	1/8	.046	1.5x	.470	15x	2-1/2	HC4833120	Price	HC5040190	Price	HC4936140	Price
.031	1/8	.046	1.5x	.565	18x	2-1/2	HC4833130	Price	HC5040200	Price	HC4936150	Price
.031	1/8	.046	1.5x	.625	20x	2-1/2	HC4833140	Price	HC5040210	Price	HC4936160	Price
.031	1/8	.046	1.5x	.775	25x	2-1/2	HC4833150	Price	HC5040220	Price	-	-
.031	1/8	.156	5x	-	-	2-1/2	HC4833160	Price	HC5040230	Price	HC4936170	Price
.031	1/8	.156	5x	.310	10x	2-1/2	HC4833170	Price	HC5040240	Price	HC4936180	Price
.031	1/8	.250	8x	-	-	2-1/2	HC4833180	Price	HC5040250	Price	HC4936190	Price
.031	1/8	.312	10x	-	-	2-1/2	HC4833190	Price	HC5040260	Price	-	-
.031	1/8	.375	12x	-	-	2-1/2	HC4833200	Price	HC5040270	Price	HC4936200	Price
.031	1/8	.470	15x	-	-	2-1/2	HC4833210	Price	HC5040280	Price	-	-
.035	1/8	.052	1.5x	.187	5x	2-1/2	HC4833220	Price	HC5040290	Price	HC4936210	Price
.035	1/8	.052	1.5x	.281	8x	2-1/2	HC4833230	Price	HC5040300	Price	HC4936220	Price
.035	1/8	.175	5x	-	-	2-1/2	HC4833240	Price	HC5040310	Price	HC4936230	Price
.040	1/8	.060	1.5x	.120	3x	2-1/2	HC4833250	Price	HC5040320	Price	-	-
.040	1/8	.060	1.5x	.203	5x	2-1/2	HC4833260	Price	HC5040330	Price	HC4936240	Price
.040	1/8	.060	1.5x	.325	8x	2-1/2	HC4833270	Price	HC5040340	Price	HC4936250	Price
.040	1/8	.060	1.5x	.400	10x	2-1/2	HC4833280	Price	HC5040350	Price	-	-
.040	1/8	.060	1.5x	.480	12x	2-1/2	HC4833290	Price	HC5040360	Price	HC4936260	Price
.040	1/8	.060	1.5x	.600	15x	2-1/2	HC4833300	Price	HC5040370	Price	HC4936270	Price
.040	1/8	.060	1.5x	.800	20x	2-1/2	HC4833310	Price	HC5040380	Price	-	-
.040	1/8	.200	5x	-	-	2-1/2	HC4833320	Price	HC5040390	Price	HC4936280	Price
.040	1/8	.200	5x	.400	10x	2-1/2	HC4833330	Price	HC5040400	Price	HC4936290	Price
.040	1/8	.325	8x	-	-	2-1/2	HC4833340	Price	HC5040410	Price	-	-
.040	1/8	.480	12x	-	-	2-1/2	HC4833350	Price	HC5040420	Price	-	-
.045	1/8	.067	1.5x	.225	5x	2-1/2	HC4833360	Price	HC5040430	Price	HC4936300	Price
.045	1/8	.067	1.5x	.375	8x	2-1/2	HC4833370	Price	HC5040440	Price	HC4936310	Price
.045	1/8	.067	1.5x	.550	12x	2-1/2	HC4833380	Price	HC5040450	Price	HC4936320	Price
.045	1/8	.225	5x	.450	10x	2-1/2	HC4833390	Price	HC5040460	Price	HC4936330	Price
.047	1/8	.070	1.5x	.141	3x	2-1/2	HC4833400	Price	HC5040470	Price	-	-
.047	1/8	.070	1.5x	.250	5x	2-1/2	HC4833410	Price	HC5040480	Price	HC4936340	Price
.047	1/8	.070	1.5x	.375	8x	2-1/2	HC4833420	Price	HC5040490	Price	HC4936350	Price
.047	1/8	.070	1.5x	.480	10x	2-1/2	HC4833430	Price	HC5040500	Price	-	-
.047	1/8	.070	1.5x	.570	12x	2-1/2	HC4833440	Price	HC5040510	Price	HC4936360	Price
.047	1/8	.070	1.5x	.710	15x	2-1/2	HC4833450	Price	HC5040520	Price	HC4936370	Price
.047	1/8	.070	1.5x	.950	20x	2-1/2	HC4833460	Price	HC5040530	Price	HC4936380	Price
.047	1/8	.070	1.5x	1.187	25x	2-1/2	HC4833470	Price	HC5040540	Price	-	-
.047	1/8	.250	5x	-	-	2-1/2	HC4833480	Price	HC5040550	Price	HC4936390	Price
.047	1/8	.250	5x	.500	10x	2-1/2	HC4833490	Price	HC5040560	Price	HC4936400	Price
.047	1/8	.375	8x	-	-	2-1/2	HC4833500	Price	HC5040570	Price	HC4936410	Price
.050	1/8	.075	1.5x	.250	5x	2-1/2	HC4833510	Price	HC5040580	Price	HC4936420	Price
.050	1/8	.075	1.5x	.400	8x	2-1/2	HC4833520	Price	HC5040590	Price	HC4936430	Price
.050	1/8	.075	1.5x	.600	12x	2-1/2	HC4833530	Price	HC5040600	Price	HC4936440	Price
.050	1/8	.300	6x	-	-	2-1/2	HC4833540	Price	HC5040610	Price	HC4936450	Price
.050	1/8	.300	6x	.600	12x	2-1/2	HC4833550	Price	HC5040620	Price	HC4936460	Price
.055	1/8	.082	1.5x	.165	3x	2-1/2	HC4833560	Price	HC5040630	Price	-	-
.055	1/8	.082	1.5x	.275	5x	2-1/2	HC4833570	Price	HC5040640	Price	HC4936470	Price
.055	1/8	.082	1.5x	.450	8x	2-1/2	HC4833580	Price	HC5040650	Price	HC4936480	Price
.055	1/8	.082	1.5x	.660	12x	2-1/2	HC4833590	Price	HC5040660	Price	HC4936490	Price
.055	1/8	.275	5x	-	-	2-1/2	HC4833600	Price	HC5040670	Price	-	-
.060	1/8	.090	1.5x	.180	3x	2-1/2	HC4833610	Price	HC5040680	Price	-	-
.060	1/8	.090	1.5x	.312	5x	2-1/2	HC4833620	Price	HC5040690	Price	HC4936500	Price
.060	1/8	.090	1.5x	.500	8x	2-1/2	HC4833630	Price	HC5040700	Price	HC4936510	Price
.060	1/8	.090	1.5x	.625	10x	2-1/2	HC4833640	Price	HC5040710	Price	-	-
.060	1/8	.090	1.5x	.720	12x	2-1/2	HC4833650	Price	HC5040720	Price	HC4936520	Price
.060	1/8	.312	5x	-	-	2-1/2	HC4833660	Price	HC5040730	Price	-	-
.060	1/8	.500	8x	1.000	16x	2-1/2	HC4833670	Price	HC5040740	Price	HC4936530	Price
.062	1/8	.093	1.5x	.186	3x	2-1/2	HC4833680	Price	HC5040750	Price	HC4936540	Price

(Continued on next page)

RAPIDKUT® 3 Flute Solid Carbide Miniature End Mills *(continued from previous page)*

Ball Nose



							Uncoated		AlTiN		DLC	
Size	Shank Dia.	Flute Length	Flute Length x Diameter Ratio	Length Below Shank	Reach	OAL	Order No.	Price	Order No.	Price	Order No.	Price
.062	1/8	.093	1.5x	.312	5x	2-1/2	HC4833690	Price	HC5040760	Price	HC4936550	Price
.062	1/8	.093	1.5x	.500	8x	2-1/2	HC4833700	Price	HC5040770	Price	HC4936560	Price
.062	1/8	.093	1.5x	.625	10x	2-1/2	HC4833710	Price	HC5040780	Price	HC4936570	Price
.062	1/8	.093	1.5x	.750	12x	2-1/2	HC4833720	Price	HC5040790	Price	HC4936580	Price
.062	1/8	.093	1.5x	.950	15x	2-1/2	HC4833730	Price	HC5040800	Price	HC4936590	Price
.062	1/8	.093	1.5x	1.125	18x	2-1/2	HC4833740	Price	HC5040810	Price	-	-
.062	1/8	.093	1.5x	1.250	20x	2-1/2	HC4833750	Price	HC5040820	Price	HC4936600	Price
.062	1/8	.093	1.5x	1.550	25x	3	HC4833760	Price	HC5040830	Price	-	-
.062	1/8	.312	5x	-	-	2-1/2	HC4833770	Price	HC5040840	Price	HC4936610	Price
.062	1/8	.500	8x	-	-	2-1/2	HC4833780	Price	HC5040850	Price	HC4936620	Price
.062	1/8	.500	8x	1.000	16x	2-1/2	HC4833790	Price	HC5040860	Price	HC4936630	Price
.062	1/8	.625	10x	-	-	2-1/2	HC4833800	Price	HC5040870	Price	-	-
.062	1/8	.750	12x	-	-	2-1/2	HC4833810	Price	HC5040880	Price	HC4936640	Price
.062	1/8	.950	15x	-	-	2-1/2	HC4833820	Price	HC5040890	Price	HC4936650	Price
.065	1/8	.097	1.5x	.325	5x	2-1/2	HC4833830	Price	-	-	-	-
.065	1/8	.097	1.5x	.530	8x	2-1/2	HC4833840	Price	HC5040900	Price	HC4936660	Price
.065	1/8	.500	8x	-	-	2-1/2	HC4833850	Price	HC5040910	Price	HC4936670	Price
.070	1/8	.105	1.5x	.375	5x	2-1/2	HC4833860	Price	-	-	-	-
.070	1/8	.105	1.5x	.570	8x	2-1/2	HC4833870	Price	HC5040920	Price	HC4936680	Price
.070	1/8	.500	7x	-	-	2-1/2	HC4833880	Price	HC5040930	Price	HC4936690	Price
.070	1/8	.500	7x	1.000	14x	2-1/2	HC4833890	Price	HC5040940	Price	HC4936700	Price
.075	1/8	.112	1.5x	.375	5x	2-1/2	HC4833900	Price	-	-	-	-
.075	1/8	.112	1.5x	.625	8x	2-1/2	HC4833910	Price	HC5040950	Price	HC4936710	Price
.078	1/8	.117	1.5x	.406	5x	2-1/2	HC4833920	Price	HC5040960	Price	HC4936720	Price
.078	1/8	.117	1.5x	.625	8x	2-1/2	HC4833930	Price	HC5040970	Price	HC4936730	Price
.078	1/8	.117	1.5x	.800	10x	2-1/2	HC4833940	Price	HC5040980	Price	-	-
.078	1/8	.117	1.5x	.940	12x	2-1/2	HC4833950	Price	HC5040990	Price	HC4936740	Price
.078	1/8	.117	1.5x	1.187	15x	2-1/2	HC4833960	Price	HC5041000	Price	-	-
.078	1/8	.117	1.5x	1.562	20x	3	HC4833970	Price	HC5041010	Price	-	-
.078	1/8	.406	5x	-	-	2-1/2	HC4833980	Price	HC5041020	Price	HC4936750	Price
.078	1/8	.500	6x	1.000	12x	2-1/2	HC4833990	Price	HC5041030	Price	HC4936760	Price
.078	1/8	.625	8x	-	-	2-1/2	HC4834000	Price	HC5041040	Price	HC4936770	Price
.078	1/8	.940	12x	-	-	2-1/2	HC4834010	Price	HC5041050	Price	HC4936780	Price
.078	1/8	1.187	15x	-	-	2-1/2	HC4834020	Price	HC5041060	Price	HC4936790	Price
.085	1/8	.127	1.5x	.425	5x	2-1/2	HC4834030	Price	HC5041070	Price	-	-
.085	1/8	.750	9x	1.250	14x	2-1/2	HC4834040	Price	HC5041080	Price	HC4936800	Price
.090	1/8	.135	1.5x	.450	5x	2-1/2	HC4834050	Price	-	-	-	-
.090	1/8	.750	8x	1.250	13x	2-1/2	HC4834060	Price	HC5041090	Price	HC4936810	Price
.093	1/8	.139	1.5x	.279	3x	2-1/2	HC4834070	Price	HC5041100	Price	-	-
.093	1/8	.139	1.5x	.500	5x	2-1/2	HC4834080	Price	HC5041110	Price	HC4936820	Price
.093	1/8	.139	1.5x	.750	8x	2-1/2	HC4834090	Price	HC5041120	Price	HC4936830	Price
.093	1/8	.139	1.5x	.950	10x	2-1/2	HC4834100	Price	HC5041130	Price	-	-
.093	1/8	.139	1.5x	1.125	12x	2-1/2	HC4834110	Price	HC5041140	Price	HC4936840	Price
.093	1/8	.139	1.5x	1.400	15x	3	HC4834120	Price	HC5041150	Price	HC4936850	Price
.093	1/8	.139	1.5x	1.875	20x	4	HC4834130	Price	HC5041160	Price	-	-
.093	1/8	.139	1.5x	2.312	25x	4	HC4834140	Price	HC5041170	Price	-	-
.093	1/8	.500	5x	-	-	2-1/2	HC4834150	Price	HC5041180	Price	HC4936860	Price
.093	1/8	.750	8x	-	-	2-1/2	HC4834160	Price	HC5041190	Price	HC4936870	Price
.093	1/8	.750	8x	1.250	13x	2-1/2	HC4834170	Price	HC5041200	Price	HC4936880	Price
.093	1/8	1.125	12x	-	-	2-1/2	HC4834180	Price	HC5041210	Price	HC4936890	Price
.093	1/8	1.400	15x	-	-	3	HC4834190	Price	HC5041220	Price	HC4936900	Price
.100	1/8	.150	1.5x	.500	5x	2-1/2	HC4834200	Price	HC5041230	Price	-	-
.100	1/8	.150	1.5x	.800	8x	2-1/2	HC4834210	Price	HC5041240	Price	HC4936910	Price
.100	1/8	.150	1.5x	1.200	12x	2-1/2	HC4834220	Price	HC5041250	Price	-	-
.100	1/8	.500	5x	-	-	2-1/2	HC4834230	Price	HC5041260	Price	-	-
.125	1/8	.187	1.5x	.375	3x	2-1/2	HC4834240	Price	HC5041270	Price	-	-
.125	1/8	.187	1.5x	.625	5x	2-1/2	HC4834250	Price	HC5041280	Price	HC4936920	Price
.125	1/8	.187	1.5x	1.000	8x	2-1/2	HC4834260	Price	HC5041290	Price	HC4936930	Price
.125	1/8	.187	1.5x	1.250	10x	2-1/2	HC4834270	Price	HC5041300	Price	-	-
.125	1/8	.187	1.5x	1.500	12x	3	HC4834280	Price	HC5041310	Price	HC4936940	Price
.125	1/8	.187	1.5x	1.875	15x	3	HC4834290	Price	HC5041320	Price	HC4936950	Price
.125	1/8	.187	1.5x	2.250	18x	4	HC4834300	Price	HC5041330	Price	-	-
.125	1/8	.187	1.5x	2.500	20x	4	HC4834310	Price	HC5041340	Price	HC4936960	Price
.125	1/8	.187	1.5x	3.125	25x	4	HC4834320	Price	-	-	-	-
.125	1/8	.625	5x	-	-	2-1/2	HC4834330	Price	HC5041350	Price	HC4936970	Price
.125	1/8	1.000	8x	-	-	2-1/2	HC4834340	Price	HC5041360	Price	HC4936980	Price
.125	1/8	1.000	8x	1.500	12x	2-1/2	HC4834350	Price	HC5041370	Price	HC4936990	Price
.125	1/8	1.250	10x	-	-	2-1/2	HC4834360	Price	HC5041380	Price	-	-
.125	1/8	1.500	12x	-	-	3	HC4834370	Price	HC5041390	Price	HC4937000	Price
.125	1/8	1.875	15x	-	-	3	HC4834380	Price	HC5041400	Price	HC4937010	Price
.156	3/16	.234	1.5x	1.250	8x	3	HC4834390	Price	HC5041410	Price	-	-
.187	3/16	.281	1.5x	1.000	5x	3	HC4834400	Price	HC5041420	Price	HC4937020	Price
.187	3/16	.281	1.5x	1.500	8x	3	HC4834410	Price	HC5041430	Price	HC4937030	Price
.187	3/16	.281	1.5x	1.875	10x	4	HC4834420	Price	HC5041440	Price	-	-
.187	3/16	.281	1.5x	2.250	12x	4	HC4834430	Price	HC5041450	Price	HC4937040	Price
.187	3/16	.281	1.5x	2.812	15x	4	HC4834440	Price	HC5041460	Price	-	-
.250	1/4	.375	1.5x	1.250	5x	4	HC4834450	Price	HC5041470	Price	HC4937050	Price
.250	1/4	.375	1.5x	2.000	8x	4	HC4834460	Price	HC5041480	Price	HC4937060	Price
.250	1/4	.375	1.5x	2.500	10x	4	HC4834470	Price	HC5041490	Price	-	-
.250	1/4	.375	1.5x	3.000	12x	6	HC4834480	Price	HC5041500	Price	HC4937070	Price
.250	1/4	.375	1.5x	3.750	15x	6	HC4834490	Price	HC5041510	Price	-	-

RAPIDKUT® 4 Flute Solid Carbide Miniature End Mills

Square End



- Center cutting
- 30° Helix
- Good for materials less than HRc 48
- Tolerance +/- .0005”

AlTiN coating is ideal for high temperature cutting operations in many materials such as titanium and nickel alloys, Co-Cr-Mo, stainless steel, alloy steels and cast iron

PCD (Amorphous DLC) Diamond coating for increased lubricity in non-ferrous materials

				Uncoated		AlTiN		DLC	
Size	Shank Dia.	Flute Length	OAL	Order No.	Price	Order No.	Price	Order No.	Price
.005	1/8	.008	1-1/2	HC4516940	Price	-	-	-	-
.005	1/8	.015	1-1/2	HC4517490	Price	-	-	-	-
.006	1/8	.009	1-1/2	HC4516950	Price	-	-	-	-
.006	1/8	.018	1-1/2	HC4517500	Price	-	-	-	-
.007	1/8	.011	1-1/2	HC4516960	Price	-	-	-	-
.007	1/8	.021	1-1/2	HC4517510	Price	-	-	-	-
.008	1/8	.012	1-1/2	HC4516970	Price	-	-	-	-
.008	1/8	.024	1-1/2	HC4517520	Price	-	-	-	-
.009	1/8	.014	1-1/2	HC4516980	Price	-	-	-	-
.009	1/8	.027	1-1/2	HC4517530	Price	-	-	-	-
.010	1/8	.015	1-1/2	HC4516990	Price	HC4710860	Price	HC4613520	Price
.010	1/8	.030	1-1/2	HC4517540	Price	HC4710870	Price	HC4613550	Price
.011	1/8	.017	1-1/2	HC4517000	Price	HC4710890	Price	-	-
.011	1/8	.033	1-1/2	HC4517550	Price	HC4710910	Price	HC4613560	Price
.012	1/8	.018	1-1/2	HC4517010	Price	HC4710930	Price	-	-
.012	1/8	.036	1-1/2	HC4517560	Price	HC4710950	Price	HC4613570	Price
.013	1/8	.020	1-1/2	HC4517020	Price	HC4710970	Price	-	-
.013	1/8	.039	1-1/2	HC4517570	Price	HC4710990	Price	HC4613580	Price
.014	1/8	.021	1-1/2	HC4517030	Price	HC4711010	Price	-	-
.014	1/8	.042	1-1/2	HC4517580	Price	HC4711030	Price	HC4613590	Price
.015	1/8	.023	1-1/2	HC4517040	Price	HC4711060	Price	HC4613610	Price
.026	1/8	.078	1-1/2	HC4517700	Price	HC4711510	Price	HC4613800	Price
.015	1/8	.045	1-1/2	HC4517590	Price	HC4711070	Price	HC4613630	Price
.016	1/8	.024	1-1/2	HC4517050	Price	HC4711090	Price	-	-
.016	1/8	.048	1-1/2	HC4517600	Price	HC4711110	Price	HC4613640	Price
.017	1/8	.026	1-1/2	HC4517060	Price	HC4711130	Price	-	-
.017	1/8	.051	1-1/2	HC4517610	Price	HC4711150	Price	HC4613650	Price
.018	1/8	.027	1-1/2	HC4517070	Price	HC4711170	Price	-	-
.018	1/8	.054	1-1/2	HC4517620	Price	HC4711190	Price	HC4613660	Price
.019	1/8	.029	1-1/2	HC4517080	Price	HC4711210	Price	-	-
.019	1/8	.057	1-1/2	HC4517630	Price	HC4711230	Price	HC4613670	Price
.020	1/8	.030	1-1/2	HC4517090	Price	HC4711260	Price	HC4613690	Price
.020	1/8	.060	1-1/2	HC4517640	Price	HC4711270	Price	HC4613710	Price
.021	1/8	.032	1-1/2	HC4517100	Price	HC4711290	Price	-	-
.021	1/8	.063	1-1/2	HC4517650	Price	HC4711310	Price	HC4613720	Price
.022	1/8	.033	1-1/2	HC4517110	Price	HC4711330	Price	-	-
.022	1/8	.066	1-1/2	HC4517660	Price	HC4711350	Price	HC4613730	Price
.023	1/8	.035	1-1/2	HC4517120	Price	HC4711370	Price	-	-
.023	1/8	.069	1-1/2	HC4517670	Price	HC4711390	Price	HC4613740	Price
.024	1/8	.036	1-1/2	HC4517130	Price	HC4711410	Price	-	-
.024	1/8	.072	1-1/2	HC4517680	Price	HC4711430	Price	HC4613750	Price
.025	1/8	.038	1-1/2	HC4517140	Price	HC4711460	Price	HC4613770	Price
.025	1/8	.075	1-1/2	HC4517690	Price	HC4711470	Price	HC4613790	Price
.026	1/8	.039	1-1/2	HC4517150	Price	HC4711490	Price	-	-
.027	1/8	.041	1-1/2	HC4517160	Price	HC4711530	Price	-	-
.027	1/8	.081	1-1/2	HC4517710	Price	HC4711550	Price	HC4613810	Price
.028	1/8	.042	1-1/2	HC4517170	Price	HC4711570	Price	-	-
.028	1/8	.084	1-1/2	HC4517720	Price	HC4711590	Price	HC4613820	Price
.029	1/8	.044	1-1/2	HC4517180	Price	HC4711610	Price	-	-
.029	1/8	.087	1-1/2	HC4517730	Price	HC4711630	Price	HC4613830	Price
.030	1/8	.045	1-1/2	HC4517190	Price	HC4711660	Price	HC4613850	Price
.030	1/8	.090	1-1/2	HC4517740	Price	HC4711670	Price	HC4613870	Price
.031	1/8	.047	1-1/2	HC4517200	Price	HC4711700	Price	HC4613890	Price
.031	1/8	.093	1-1/2	HC4517750	Price	HC4711710	Price	HC4613910	Price
.032	1/8	.048	1-1/2	HC4517210	Price	HC4711730	Price	-	-
.032	1/8	.096	1-1/2	HC4517760	Price	HC4711750	Price	-	-
.033	1/8	.050	1-1/2	HC4517220	Price	HC4711770	Price	-	-
.033	1/8	.099	1-1/2	HC4517770	Price	HC4711790	Price	-	-
.034	1/8	.051	1-1/2	HC4517230	Price	HC4711810	Price	-	-
.034	1/8	.102	1-1/2	HC4517780	Price	HC4711830	Price	-	-
.035	1/8	.053	1-1/2	HC4517240	Price	HC4711860	Price	HC4613930	Price
.035	1/8	.105	1-1/2	HC4517790	Price	HC4711870	Price	HC4613950	Price
.036	1/8	.054	1-1/2	HC4517250	Price	HC4711890	Price	-	-
.036	1/8	.108	1-1/2	HC4517800	Price	HC4711910	Price	-	-
.037	1/8	.056	1-1/2	HC4517260	Price	HC4711930	Price	-	-
.037	1/8	.111	1-1/2	HC4517810	Price	HC4711950	Price	-	-
.038	1/8	.057	1-1/2	HC4517270	Price	HC4711970	Price	-	-
.038	1/8	.114	1-1/2	HC4517820	Price	HC4711990	Price	-	-
.039	1/8	.059	1-1/2	HC4517280	Price	HC4712010	Price	-	-
.039	1/8	.117	1-1/2	HC4517830	Price	HC4712030	Price	-	-
.040	1/8	.060	1-1/2	HC4517290	Price	HC4712060	Price	HC4613970	Price
.040	1/8	.120	1-1/2	HC4517840	Price	HC4712070	Price	HC4613990	Price
.041	1/8	.123	1-1/2	HC4517850	Price	HC4712090	Price	-	-
.042	1/8	.126	1-1/2	HC4517860	Price	HC4712110	Price	-	-
.043	1/8	.129	1-1/2	HC4517870	Price	HC4712130	Price	-	-
.044	1/8	.132	1-1/2	HC4517880	Price	HC4712150	Price	-	-
.045	1/8	.068	1-1/2	HC4517300	Price	HC4712170	Price	HC4614000	Price
.045	1/8	.135	1-1/2	HC4517890	Price	HC4712190	Price	HC4614030	Price
.046	1/8	.138	1-1/2	HC4517900	Price	HC4712210	Price	-	-
.047	1/8	.071	1-1/2	HC4517310	Price	HC4712240	Price	HC4614040	Price
.047	1/8	.141	1-1/2	HC4517910	Price	HC4712250	Price	HC4614070	Price
.048	1/8	.144	1-1/2	HC4517920	Price	HC4712270	Price	-	-
.049	1/8	.147	1-1/2	HC4517930	Price	HC4712290	Price	-	-
.050	1/8	.075	1-1/2	HC4517320	Price	HC4712310	Price	HC4614080	Price
.050	1/8	.150	1-1/2	HC4517940	Price	HC4712330	Price	HC4614110	Price
.051	1/8	.153	1-1/2	HC4517950	Price	HC4712350	Price	-	-
.052	1/8	.156	1-1/2	HC4517960	Price	HC4712370	Price	-	-
.053	1/8	.159	1-1/2	HC4517970	Price	HC4712390	Price	-	-
.054	1/8	.162	1-1/2	HC4517980	Price	HC4712410	Price	-	-
.055	1/8	.083	1-1/2	HC4517330	Price	HC4712430	Price	HC4614120	Price
.055	1/8	.165	1-1/2	HC4517990	Price	HC4712450	Price	HC4614150	Price
.056	1/8	.168	1-1/2	HC4518000	Price	HC4712470	Price	-	-
.057	1/8	.171	1-1/2	HC4518010	Price	HC4712490	Price	-	-
.058	1/8	.174	1-1/2	HC4518020	Price	HC4712510	Price	-	-
.059	1/8	.177	1-1/2	HC4518030	Price	HC4712530	Price	-	-
.060	1/8	.090	1-1/2	HC4517340	Price	HC4712550	Price	HC4614160	Price
.060	1/8	.180	1-1/2	HC4518040	Price	HC4712570	Price	HC4614190	Price
.062	1/8	.093	1-1/2	HC4517350	Price	HC4712590	Price	HC4614200	Price
.062	1/8	.186	1-1/2	HC4518050	Price	HC4712600	Price	HC4614210	Price
.065	1/8	.098	1-1/2	HC4517360	Price	HC4712620	Price	-	-
.065	1/8	.195	1-1/2	HC4518060	Price	HC4712640	Price	HC4614230	Price
.070	1/8	.105	1-1/2	HC4517370	Price	HC4712660	Price	-	-
.070	1/8	.210	1-1/2	HC4518070	Price	HC4712680	Price	HC4614250	Price
.075	1/8	.113	1-1/2	HC4517380	Price	HC4712700	Price	-	-
.075	1/8	.225	1-1/2	HC4518080	Price	HC4712720	Price	HC4614260	Price
.078	1/8	.117	1-1/2	HC4517390	Price	HC4712730	Price	HC4614280	Price
.078	1/8	.234	1-1/2	HC4518090	Price	HC4712760	Price	HC4614300	Price
.080	1/8	.120	1-1/2	HC4517400	Price	HC4712780	Price	-	-
.080	1/8	.240	1-1/2	HC4518100	Price	HC4712800	Price	HC4614330	Price
.085	1/8	.128	1-1/2	HC4517410	Price	HC4712820	Price	-	-
.085	1/8	.255	1-1/2	HC4518110	Price	HC4712840	Price	HC4614340	Price
.090	1/8	.135	1-1/2	HC4517420	Price	HC4712860	Price	-	-
.090	1/8	.270	1-1/2	HC4518120	Price	HC4712880	Price	HC4614350	Price
.093	1/8	.140	1-1/2	HC4517430	Price	HC4712890	Price	HC4614370	Price
.093	1/8	.279	1-1/2	HC4518130	Price	HC4712920	Price	HC4614390	Price
.095	1/8	.143	1-1/2	HC4517440	Price	HC4712940	Price	-	-
.095	1/8	.285	1-1/2	HC4518140	Price	HC4712960	Price	HC4614400	Price
.100	1/8	.150	1-1/2	HC4517450	Price	HC4712980	Price	-	-
.100	1/8	.300	1-1/2	HC4518150	Price	HC4713000	Price	HC4614420	Price
.105	1/8	.158	1-1/2	HC4517460	Price	HC4713010	Price	-	-
.105	1/8	.315	1-1/2	HC4518160	Price	HC4713030	Price	HC4614430	Price
.110	1/8	.165	1-1/2	HC4517470	Price	HC4713040	Price	-	-
.110	1/8	.330	1-1/2	HC4518170	Price	HC4713060	Price	HC4614440	Price
.115	1/8	.173	1-1/2	HC4517480	Price	HC4713070	Price	-	-
.115	1/8	.345	1-1/2	HC4518180	Price	HC4713090	Price	HC4614450	Price

RAPIDKUT® 4 Flute Corner Radius End Mills



Solid Carbide • 30° Helix

- Micrograin carbide

					AlTiN		DLC		Uncoated	
Size	Shank Dia.	Flute Length	OAL	Radius	Order No.	Price	Order No.	Price	Order No.	Price
.020	1/8	.060	1-1/2	.005	HC5450405	Price	HC5450410	Price	HC5450400	Price
.025	1/8	.075	1-1/2	.005	HC5450420	Price	HC5450425	Price	HC5450415	Price
.030	1/8	.090	1-1/2	.005	HC5450435	Price	HC5450440	Price	HC5450430	Price
.031	1/8	.093	1-1/2	.005	HC5450450	Price	HC5450455	Price	HC5450445	Price
.035	1/8	.105	1-1/2	.005	HC5450465	Price	HC5450470	Price	HC5450460	Price
.039	1/8	.117	1-1/2	.005	HC5450480	Price	-	-	HC5450475	Price
.040	1/8	.120	1-1/2	.005	HC5450490	Price	HC5450495	Price	HC5450485	Price
.040	1/8	.120	1-1/2	.010	HC5450505	Price	HC5450510	Price	HC5450500	Price
.045	1/8	.135	1-1/2	.005	HC5450520	Price	HC5450525	Price	HC5450515	Price
.045	1/8	.135	1-1/2	.010	HC5450535	Price	HC5450540	Price	HC5450530	Price
.047	1/8	.141	1-1/2	.005	HC5450550	Price	HC5450555	Price	HC5450545	Price
.047	1/8	.141	1-1/2	.010	HC5450565	Price	HC5450570	Price	HC5450560	Price
.050	1/8	.150	1-1/2	.005	HC5450580	Price	HC5450585	Price	HC5450575	Price
.050	1/8	.150	1-1/2	.010	HC5450595	Price	HC5450600	Price	HC5450590	Price
.055	1/8	.165	1-1/2	.005	HC5450610	Price	HC5450615	Price	HC5450605	Price
.055	1/8	.165	1-1/2	.010	HC5450625	Price	HC5450630	Price	HC5450620	Price
.060	1/8	.180	1-1/2	.005	HC5450640	Price	HC5450645	Price	HC5450635	Price
.060	1/8	.180	1-1/2	.010	HC5450655	Price	HC5450660	Price	HC5450650	Price
.062	1/8	.186	1-1/2	.005	HC5450670	Price	HC5450675	Price	HC5450665	Price
.062	1/8	.186	1-1/2	.010	HC5450685	Price	HC5450690	Price	HC5450680	Price
.062	1/8	.186	1-1/2	.015	HC5450700	Price	HC5450705	Price	HC5450695	Price
.065	1/8	.195	1-1/2	.005	HC5450715	Price	HC5450720	Price	HC5450710	Price
.065	1/8	.195	1-1/2	.010	HC5450730	Price	HC5450735	Price	HC5450725	Price
.065	1/8	.195	1-1/2	.015	HC5450745	Price	HC5450750	Price	HC5450740	Price
.070	1/8	.210	1-1/2	.005	HC5450760	Price	HC5450765	Price	HC5450755	Price
.070	1/8	.210	1-1/2	.010	HC5450775	Price	HC5450780	Price	HC5450770	Price
.070	1/8	.210	1-1/2	.015	HC5450790	Price	HC5450795	Price	HC5450785	Price
.075	1/8	.225	1-1/2	.005	HC5450805	Price	HC5450810	Price	HC5450800	Price
.075	1/8	.225	1-1/2	.010	HC5450820	Price	HC5450825	Price	HC5450815	Price
.075	1/8	.225	1-1/2	.015	HC5450835	Price	HC5450840	Price	HC5450830	Price
.078	1/8	.234	1-1/2	.005	HC5450850	Price	HC5450855	Price	HC5450845	Price
.078	1/8	.234	1-1/2	.010	HC5450865	Price	HC5450870	Price	HC5450860	Price
.078	1/8	.234	1-1/2	.015	HC5450880	Price	HC5450885	Price	HC5450875	Price
.080	1/8	.240	1-1/2	.005	HC5450895	Price	HC5450900	Price	HC5450890	Price
.080	1/8	.240	1-1/2	.010	HC5450910	Price	HC5450915	Price	HC5450905	Price
.080	1/8	.240	1-1/2	.015	HC5450925	Price	HC5450930	Price	HC5450920	Price
.085	1/8	.255	1-1/2	.005	HC5450940	Price	HC5450945	Price	HC5450935	Price
.085	1/8	.255	1-1/2	.010	HC5450955	Price	HC5450960	Price	HC5450950	Price
.085	1/8	.255	1-1/2	.015	HC5450970	Price	HC5450975	Price	HC5450965	Price
.090	1/8	.270	1-1/2	.005	HC5450985	Price	HC5450990	Price	HC5450980	Price
.090	1/8	.270	1-1/2	.010	HC5451000	Price	HC5451005	Price	HC5450995	Price
.090	1/8	.270	1-1/2	.015	HC5451015	Price	HC5451020	Price	HC5451010	Price
.093	1/8	.279	1-1/2	.005	HC5451030	Price	HC5451035	Price	HC5451025	Price
.093	1/8	.279	1-1/2	.010	HC5451045	Price	HC5451050	Price	HC5451040	Price
.093	1/8	.279	1-1/2	.015	HC5451060	Price	HC5451065	Price	HC5451055	Price
.093	1/8	.279	1-1/2	.020	HC5451075	Price	HC5451080	Price	HC5451070	Price
.093	1/8	.279	1-1/2	.030	HC5451090	Price	-	-	HC5451085	Price
.095	1/8	.285	1-1/2	.005	HC5451100	Price	HC5451105	Price	HC5451095	Price
.095	1/8	.285	1-1/2	.010	HC5451115	Price	HC5451120	Price	HC5451110	Price
.095	1/8	.285	1-1/2	.015	HC5451130	Price	HC5451135	Price	HC5451125	Price
.100	1/8	.300	1-1/2	.005	HC5451145	Price	HC5451150	Price	HC5451140	Price
.100	1/8	.300	1-1/2	.010	HC5451160	Price	HC5451165	Price	HC5451155	Price
.100	1/8	.300	1-1/2	.015	HC5451175	Price	HC5451180	Price	HC5451170	Price
1/8	1/8	1/2	1-1/2	.005	HC5451190	Price	HC5451195	Price	HC5451185	Price
1/8	1/8	1/2	1-1/2	.010	HC5451205	Price	HC5451210	Price	HC5451200	Price
1/8	1/8	1/2	1-1/2	.015	HC5451220	Price	HC5451225	Price	HC5451215	Price
1/8	1/8	1/2	1-1/2	.020	HC5451235	Price	HC5451240	Price	HC5451230	Price
1/8	1/8	1/2	1-1/2	.030	HC5451250	Price	HC5451255	Price	HC5451245	Price
5/32	3/16	9/16	2	.010	HC5451265	Price	-	-	HC5451260	Price
5/32	3/16	9/16	2	.015	HC5451275	Price	-	-	HC5451270	Price
5/32	3/16	9/16	2	.030	HC5451285	Price	-	-	HC5451280	Price
3/16	3/16	5/8	2	.010	HC5451295	Price	HC5451300	Price	HC5451290	Price
3/16	3/16	5/8	2	.015	HC5451310	Price	HC5451315	Price	HC5451305	Price
3/16	3/16	5/8	2	.020	HC5451325	Price	-	-	HC5451320	Price
3/16	3/16	5/8	2	.030	HC5451335	Price	HC5451340	Price	HC5451330	Price
3/16	3/16	5/8	2	.045	HC5451350	Price	HC5451355	Price	HC5451345	Price
1/4	1/4	3/4	2-1/2	.010	HC5451365	Price	HC5451370	Price	HC5451360	Price
1/4	1/4	3/4	2-1/2	.015	HC5451380	Price	HC5451385	Price	HC5451375	Price
1/4	1/4	3/4	2-1/2	.020	HC5451395	Price	-	-	HC5451390	Price
1/4	1/4	3/4	2-1/2	.030	HC5451405	Price	HC5451410	Price	HC5451400	Price
1/4	1/4	3/4	2-1/2	.045	HC5451420	Price	HC5451425	Price	HC5451415	Price
1/4	1/4	3/4	2-1/2	.060	HC5451435	Price	HC5451440	Price	HC5451430	Price
3/8	3/8	1	2-1/2	.030	HC5451450	Price	-	-	HC5451445	Price
3/8	3/8	1	2-1/2	.060	HC5451460	Price	-	-	HC5451455	Price
1/2	1/2	1	3	.030	HC5451470	Price	-	-	HC5451465	Price
1/2	1/2	1	3	.060	HC5451480	Price	-	-	HC5451475	Price

RAPIDKUT® 4 Flute Solid Carbide Miniature End Mills

Ball Nose



- Center cutting
- 30° Helix
- Good for materials less than HRc 48
- Tolerance +/- .0005”

AlTiN coating is ideal for high temperature cutting operations in many materials such as titanium and nickel alloys, Co-Cr-Mo, stainless steel, alloy steels and cast iron

PCD (Amorphous DLC) Diamond coating for increased lubricity in non-ferrous materials

				Uncoated		AlTiN		DLC	
Size	Shank Dia.	Flute Length	OAL	Order No.	Price	Order No.	Price	Order No.	Price
.010	1/8	.015	1-1/2	HC4518190	Price	HC4710840	Price	HC4613530	Price
.010	1/8	.030	1-1/2	HC4518200	Price	HC4710850	Price	HC4613540	Price
.011	1/8	.017	1-1/2	HC4518210	Price	HC4710880	Price	-	-
.011	1/8	.033	1-1/2	HC4518220	Price	HC4710900	Price	-	-
.012	1/8	.018	1-1/2	HC4518230	Price	HC4710920	Price	-	-
.012	1/8	.036	1-1/2	HC4518240	Price	HC4710940	Price	-	-
.013	1/8	.020	1-1/2	HC4518250	Price	HC4710960	Price	-	-
.013	1/8	.039	1-1/2	HC4518260	Price	HC4710980	Price	-	-
.014	1/8	.021	1-1/2	HC4518270	Price	HC4711000	Price	-	-
.014	1/8	.042	1-1/2	HC4518280	Price	HC4711020	Price	-	-
.015	1/8	.023	1-1/2	HC4518290	Price	HC4711050	Price	HC4613620	Price
.015	1/8	.045	1-1/2	HC4518300	Price	HC4711040	Price	HC4613600	Price
.016	1/8	.024	1-1/2	HC4518310	Price	HC4711080	Price	-	-
.016	1/8	.048	1-1/2	HC4518320	Price	HC4711100	Price	-	-
.017	1/8	.026	1-1/2	HC4518330	Price	HC4711140	Price	-	-
.017	1/8	.051	1-1/2	HC4518340	Price	HC4711120	Price	-	-
.018	1/8	.027	1-1/2	HC4518350	Price	HC4711160	Price	-	-
.018	1/8	.054	1-1/2	HC4518360	Price	HC4711180	Price	-	-
.019	1/8	.029	1-1/2	HC4518370	Price	HC4711200	Price	-	-
.019	1/8	.057	1-1/2	HC4518380	Price	HC4711220	Price	-	-
.020	1/8	.030	1-1/2	HC4518390	Price	HC4711240	Price	HC4613680	Price
.020	1/8	.060	1-1/2	HC4518400	Price	HC4711250	Price	HC4613700	Price
.021	1/8	.032	1-1/2	HC4518410	Price	HC4711280	Price	-	-
.021	1/8	.063	1-1/2	HC4518420	Price	HC4711300	Price	-	-
.022	1/8	.033	1-1/2	HC4518430	Price	HC4711320	Price	-	-
.022	1/8	.066	1-1/2	HC4518440	Price	HC4711340	Price	-	-
.023	1/8	.035	1-1/2	HC4518450	Price	HC4711360	Price	-	-
.023	1/8	.069	1-1/2	HC4518460	Price	HC4711380	Price	-	-
.024	1/8	.036	1-1/2	HC4518470	Price	HC4711400	Price	-	-
.024	1/8	.072	1-1/2	HC4518480	Price	HC4711420	Price	-	-
.025	1/8	.038	1-1/2	HC4518490	Price	HC4711440	Price	HC4613760	Price
.025	1/8	.075	1-1/2	HC4518500	Price	HC4711450	Price	HC4613780	Price
.026	1/8	.039	1-1/2	HC4518510	Price	HC4711480	Price	-	-
.026	1/8	.078	1-1/2	HC4518520	Price	HC4711500	Price	-	-
.027	1/8	.041	1-1/2	HC4518530	Price	HC4711520	Price	-	-
.027	1/8	.081	1-1/2	HC4518540	Price	HC4711540	Price	-	-
.028	1/8	.042	1-1/2	HC4518550	Price	HC4711560	Price	-	-
.028	1/8	.084	1-1/2	HC4518560	Price	HC4711580	Price	-	-
.029	1/8	.044	1-1/2	HC4518570	Price	HC4711600	Price	-	-
.029	1/8	.087	1-1/2	HC4518580	Price	HC4711620	Price	-	-
.030	1/8	.045	1-1/2	HC4518590	Price	HC4711640	Price	HC4613840	Price
.030	1/8	.090	1-1/2	HC4518600	Price	HC4711650	Price	HC4613860	Price
.031	1/8	.047	1-1/2	HC4518610	Price	HC4711680	Price	HC4613880	Price
.031	1/8	.093	1-1/2	HC4518620	Price	HC4711690	Price	HC4613900	Price
.032	1/8	.048	1-1/2	HC4518630	Price	HC4711720	Price	-	-
.032	1/8	.096	1-1/2	HC4518640	Price	HC4711740	Price	-	-
.033	1/8	.050	1-1/2	HC4518650	Price	HC4711760	Price	-	-
.033	1/8	.099	1-1/2	HC4518660	Price	HC4711780	Price	-	-
.034	1/8	.051	1-1/2	HC4518670	Price	HC4711800	Price	-	-
.034	1/8	.102	1-1/2	HC4518680	Price	HC4711820	Price	-	-
.035	1/8	.053	1-1/2	HC4518690	Price	HC4711840	Price	HC4613920	Price
.035	1/8	.105	1-1/2	HC4518700	Price	HC4711850	Price	HC4613940	Price
.036	1/8	.054	1-1/2	HC4518710	Price	HC4711880	Price	-	-
.036	1/8	.108	1-1/2	HC4518720	Price	HC4711900	Price	-	-
.037	1/8	.056	1-1/2	HC4518730	Price	HC4711920	Price	-	-
.037	1/8	.111	1-1/2	HC4518740	Price	HC4711940	Price	-	-
.038	1/8	.057	1-1/2	HC4518750	Price	HC4711960	Price	-	-
.038	1/8	.114	1-1/2	HC4518760	Price	HC4711980	Price	-	-
.039	1/8	.059	1-1/2	HC4518770	Price	HC4712000	Price	-	-
.039	1/8	.117	1-1/2	HC4518780	Price	HC4712020	Price	-	-
.040	1/8	.060	1-1/2	HC4518790	Price	HC4712040	Price	HC4613960	Price
.040	1/8	.120	1-1/2	HC4518800	Price	HC4712050	Price	HC4613980	Price
.041	1/8	.123	1-1/2	HC4518810	Price	HC4712080	Price	-	-
.042	1/8	.126	1-1/2	HC4518820	Price	HC4712100	Price	-	-
.043	1/8	.129	1-1/2	HC4518830	Price	HC4712120	Price	-	-
.044	1/8	.132	1-1/2	HC4518840	Price	HC4712140	Price	-	-
.045	1/8	.068	1-1/2	HC4518850	Price	HC4712160	Price	HC4614010	Price
.045	1/8	.135	1-1/2	HC4518860	Price	HC4712180	Price	HC4614020	Price
.046	1/8	.138	1-1/2	HC4518870	Price	HC4712200	Price	-	-
.047	1/8	.071	1-1/2	HC4518880	Price	HC4712220	Price	HC4614050	Price
.047	1/8	.141	1-1/2	HC4518890	Price	HC4712230	Price	HC4614060	Price
.048	1/8	.144	1-1/2	HC4518900	Price	HC4712260	Price	-	-
.049	1/8	.147	1-1/2	HC4518910	Price	HC4712280	Price	-	-
.050	1/8	.075	1-1/2	HC4518920	Price	HC4712300	Price	HC4614090	Price
.050	1/8	.150	1-1/2	HC4518930	Price	HC4712320	Price	HC4614100	Price
.051	1/8	.153	1-1/2	HC4518940	Price	HC4712340	Price	-	-
.052	1/8	.156	1-1/2	HC4518950	Price	HC4712360	Price	-	-
.053	1/8	.159	1-1/2	HC4518960	Price	HC4712380	Price	-	-
.054	1/8	.162	1-1/2	HC4518970	Price	HC4712400	Price	-	-
.055	1/8	.083	1-1/2	HC4518980	Price	HC4712420	Price	HC4614130	Price
.055	1/8	.165	1-1/2	HC4518990	Price	HC4712440	Price	HC4614140	Price
.056	1/8	.168	1-1/2	HC4519000	Price	HC4712460	Price	-	-
.057	1/8	.171	1-1/2	HC4519010	Price	HC4712480	Price	-	-
.058	1/8	.174	1-1/2	HC4519020	Price	HC4712500	Price	-	-
.059	1/8	.177	1-1/2	HC4519030	Price	HC4712520	Price	-	-
.060	1/8	.090	1-1/2	HC4519040	Price	HC4712540	Price	HC4614170	Price
.060	1/8	.180	1-1/2	HC4519050	Price	HC4712560	Price	HC4614180	Price
.062	1/8	.093	1-1/2	HC4519060	Price	HC4712580	Price	HC4614220	Price
.065	1/8	.098	1-1/2	HC4519070	Price	HC4712610	Price	-	-
.065	1/8	.195	1-1/2	HC4519080	Price	HC4712630	Price	HC4614240	Price
.070	1/8	.105	1-1/2	HC4519090	Price	HC4712650	Price	-	-
.070	1/8	.210	1-1/2	HC4519100	Price	HC4712670	Price	HC4614270	Price
.075	1/8	.113	1-1/2	HC4519110	Price	HC4712690	Price	-	-
.075	1/8	.225	1-1/2	HC4519120	Price	HC4712710	Price	-	-
.078	1/8	.117	1-1/2	HC4519130	Price	HC4712740	Price	HC4614290	Price
.078	1/8	.234	1-1/2	HC4519140	Price	HC4712750	Price	HC4614310	Price
.080	1/8	.120	1-1/2	HC4519150	Price	HC4712770	Price	-	-
.080	1/8	.240	1-1/2	HC4519160	Price	HC4712790	Price	HC4614320	Price
.085	1/8	.128	1-1/2	HC4519170	Price	HC4712810	Price	-	-
.085	1/8	.255	1-1/2	HC4519180	Price	HC4712830	Price	-	-
.090	1/8	.135	1-1/2	HC4519190	Price	HC4712850	Price	-	-
.090	1/8	.270	1-1/2	HC4519200	Price	HC4712870	Price	HC4614360	Price
.093	1/8	.140	1-1/2	HC4519210	Price	HC4712900	Price	HC4614380	Price
.093	1/8	.279	1-1/2	HC4519220	Price	HC4712910	Price	HC4614410	Price
.095	1/8	.143	1-1/2	HC4519230	Price	HC4712930	Price	-	-
.095	1/8	.285	1-1/2	HC4519240	Price	HC4712950	Price	-	-
.100	1/8	.150	1-1/2	HC4519250	Price	HC4712970	Price	-	-
.100	1/8	.300	1-1/2	HC4519260	Price	HC4712990	Price	HC4614460	Price
.105	1/8	.315	1-1/2	HC4519270	Price	HC4713020	Price	-	-
.110	1/8	.330	1-1/2	HC4519280	Price	HC4713050	Price	-	-
.115	1/8	.345	1-1/2	HC4519290	Price	HC4713080	Price	-	-
.120	1/8	.360	1-1/2	HC4519300	Price	HC4713100	Price	-	-

RAPIDKUT® 4 Flute Spherical Ball Nose End Mills

Solid Carbide

- nACo coated for hard materials
- Made from premium submicron grain carbide



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Reach	Style	Order No.	Price
1/16	1/8	.040	1-1/2	.2590	Ball 220°	**HC5541535**	Price
3/32	1/8	.060	1-1/2	.2600	Ball 220°	**HC5541540**	Price
1/8	1/8	3/32	1-1/2	.2738	Ball 220°	**HC5541545**	Price
1/8	1/8	3/32	3	.2738	Ball 220°	**HC5541550**	Price
1/8	1/8	.084	3	1.0840	Ball 220°	**HC5541555**	Price
1/8	1/8	.084	3	1.5840	Ball 220°	**HC5541560**	Price
1/8	1/8	3/32	1-1/2	.5940	Ball 220°	**HC5541565**	Price
1/8	1/8	.107	1-1/2	.2320	Ball 270°	**HC5541570**	Price
1/8	1/8	.107	1-1/2	.6070	Ball 270°	**HC5541575**	Price
1/8	1/8	.107	3	1.1070	Ball 270°	**HC5541580**	Price
1/8	1/8	.107	1-1/2	.4820	Ball 270°	**HC5541585**	Price
1/8	1/8	.107	2	.7320	Ball 270°	**HC5541590**	Price
1/8	1/8	.107	2	.8570	Ball 270°	**HC5541595**	Price
1/8	1/8	.107	3	1.6070	Ball 270°	**HC5541605**	Price
1/8	1/8	.116	1-1/2	.2090	Ball 300°	**HC5541610**	Price
1/8	1/8	.107	3	1.3570	Ball 270°	**HC5541600**	Price
1/8	1/8	.116	1-1/2	.3970	Ball 300°	**HC5541615**	Price
9/64	3/16	.119	2	.3690	Ball 270°	**HC5541620**	Price
9/64	3/16	.119	2	.6190	Ball 270°	**HC5541625**	Price
5/32	3/16	.145	2	.3950	Ball 300°	**HC5541630**	Price
3/16	3/16	9/64	2	.3356	Ball 220°	**HC5541635**	Price
3/16	3/16	9/64	3	.3356	Ball 220°	**HC5541640**	Price
3/16	3/16	.126	3	1.1260	Ball 220°	**HC5541645**	Price
3/16	3/16	9/64	2	.6410	Ball 220°	**HC5541650**	Price
3/16	3/16	.160	2	.2850	Ball 270°	**HC5541655**	Price
3/16	3/16	.160	2	.6600	Ball 270°	**HC5541660**	Price
3/16	3/16	.160	2	.5350	Ball 270°	**HC5541665**	Price
3/16	3/16	.160	2	.9100	Ball 270°	**HC5541670**	Price
3/16	3/16	.160	3	1.1600	Ball 270°	**HC5541675**	Price
3/16	3/16	.160	3	1.4100	Ball 270°	**HC5541680**	Price
3/16	3/16	.160	3	1.6600	Ball 270°	**HC5541685**	Price
3/16	3/16	.160	3	1.9100	Ball 270°	**HC5541690**	Price
3/16	3/16	.174	2	.2990	Ball 300°	**HC5541695**	Price
3/16	3/16	.174	2	.6110	Ball 300°	**HC5541700**	Price
1/4	1/4	3/16	2-1/2	.3975	Ball 220°	**HC5541705**	Price
1/4	1/4	3/16	4	.3975	Ball 220°	**HC5541710**	Price
1/4	1/4	.168	4	1.6680	Ball 220°	**HC5541715**	Price
1/4	1/4	.168	4	2.4180	Ball 220°	**HC5541720**	Price
1/4	1/4	3/16	2-1/2	.9380	Ball 220°	**HC5541725**	Price
1/4	1/4	.213	2-1/2	.5880	Ball 270°	**HC5541730**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Reach	Style	Order No.	Price
1/4	1/4	.213	2-1/2	.9630	Ball 270°	**HC5541735**	Price
1/4	1/4	.213	2-1/2	.7130	Ball 270°	**HC5541745**	Price
1/4	1/4	.213	4	1.7130	Ball 270°	**HC5541740**	Price
1/4	1/4	.213	2-1/2	.8380	Ball 270°	**HC5541750**	Price
1/4	1/4	.213	2-1/2	1.3380	Ball 270°	**HC5541755**	Price
1/4	1/4	.213	4	2.2130	Ball 270°	**HC5541760**	Price
1/4	1/4	.213	4	2.4630	Ball 270°	**HC5541765**	Price
1/4	1/4	.213	4	2.7130	Ball 270°	**HC5541770**	Price
1/4	1/4	.233	2-1/2	.4200	Ball 300°	**HC5541775**	Price
1/4	1/4	.233	2-1/2	.8580	Ball 300°	**HC5541780**	Price
5/16	5/16	.210	2-1/2	.9600	Ball 220°	**HC5541785**	Price
5/16	5/16	.210	4	1.7100	Ball 220°	**HC5541790**	Price
5/16	5/16	.266	2-1/2	.6410	Ball 270°	**HC5541795**	Price
5/16	5/16	.266	2-1/2	1.0160	Ball 270°	**HC5541805**	Price
5/16	5/16	.266	4	1.7660	Ball 270°	**HC5541800**	Price
5/16	5/16	.266	4	1.3910	Ball 270°	**HC5541810**	Price
5/16	5/16	.266	4	2.2660	Ball 270°	**HC5541815**	Price
5/16	5/16	.266	4	2.5160	Ball 270°	**HC5541820**	Price
5/16	5/16	.291	2-1/2	.5410	Ball 300°	**HC5541825**	Price
5/16	5/16	.291	2-1/2	.7280	Ball 300°	**HC5541830**	Price
3/8	3/8	9/32	2-1/2	.5223	Ball 220°	**HC5541835**	Price
3/8	3/8	9/32	4	.5223	Ball 220°	**HC5541840**	Price
3/8	3/8	.252	4	1.7520	Ball 220°	**HC5541845**	Price
3/8	3/8	.252	4	2.5020	Ball 220°	**HC5541850**	Price
3/8	3/8	.281	2-1/2	1.0310	Ball 220°	**HC5541855**	Price
3/8	3/8	.320	2-1/2	.5070	Ball 270°	**HC5541860**	Price
3/8	3/8	.320	2-1/2	1.0700	Ball 270°	**HC5541865**	Price
3/8	3/8	.320	4	1.8200	Ball 270°	**HC5541870**	Price
3/8	3/8	.320	4	2.3200	Ball 270°	**HC5541875**	Price
3/8	3/8	.349	2-1/2	.5990	Ball 300°	**HC5541880**	Price
3/8	3/8	.349	3	1.3490	Ball 300°	**HC5541885**	Price
1/2	1/2	3/8	3	.6460	Ball 220°	**HC5541890**	Price
1/2	1/2	3/8	6	.6460	Ball 220°	**HC5541895**	Price
1/2	1/2	.336	3	1.3360	Ball 220°	**HC5541905**	Price
1/2	1/2	.336	6	2.3360	Ball 220°	**HC5541900**	Price
1/2	1/2	.427	3	.9270	Ball 270°	**HC5541910**	Price
1/2	1/2	.427	6	1.9270	Ball 270°	**HC5541915**	Price
1/2	1/2	.466	3	.7780	Ball 300°	**HC5541920**	Price
1/2	1/2	.466	4	1.7160	Ball 300°	**HC5541925**	Price

RAPIDKUT® 4 Flute Solid Carbide End Mills

Ball Nose

- CVD coated



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
.015	1/8	.023	1-1/2	**HC5350015**	Price
.015	1/8	.045	1-1/2	**HC5350017**	Price
.020	1/8	.030	1-1/2	**HC5350020**	Price
.020	1/8	.060	1-1/2	**HC5350025**	Price
1/32	1/8	.047	1-1/2	**HC5350031**	Price
1/32	1/8	.093	1-1/2	**HC5350033**	Price
.040	1/8	.120	1-1/2	**HC5350040**	Price
3/64	1/8	.071	1-1/2	**HC5350046**	Price
3/64	1/8	.141	1-1/2	**HC5350048**	Price
.050	1/8	.075	1-1/2	**HC5350050**	Price
.050	1/8	.150	1-1/2	**HC5350055**	Price
.060	1/8	.090	1-1/2	**HC5350060**	Price
.060	1/8	.180	1-1/2	**HC5350063**	Price
1/16	1/8	.093	1-1/2	**HC5350065**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	1/8	.186	1-1/2	**HC5350067**	Price
5/64	1/8	.117	1-1/2	**HC5350078**	Price
5/64	1/8	.234	1-1/2	**HC5350080**	Price
3/32	1/8	.140	1-1/2	**HC5350093**	Price
3/32	1/8	.279	1-1/2	**HC5350095**	Price
.100	1/8	.150	1-1/2	**HC5350100**	Price
.100	1/8	.300	1-1/2	**HC5350105**	Price
1/8	1/8	.500	1-1/2	**HC5350125**	Price
.156	3/16	.470	2	**HC5350156**	Price
3/16	3/16	.625	2	**HC5350187**	Price
1/4	1/4	.750	2-1/2	**HC5350250**	Price
5/16	5/16	.8125	2-1/2	**HC5350312**	Price
3/8	3/8	1.000	2-1/2	**HC5350375**	Price

Metric 2 Flute Rib Processing Ball Nose WXL® Coated Carbide End Mills

- For rib processing in non-ferrous and hardened steels
- WXL® coated, enhanced geometry and substrate
- Radius tolerance ±0.005mm
- OSG List #3790



Dia.	Shank Dia.	Flute Length	OAL	Neck Dia.	Neck Length	Order No.	Price
0.5mm	4mm	0.4mm	45mm	0.45mm	3mm	**TP483110530**	Price
0.8mm	4mm	0.6mm	45mm	0.75mm	8mm	**TP483110880**	Price
1mm	4mm	0.8mm	45mm	0.95mm	5mm	**TP483111050**	Price
1mm	4mm	0.8mm	45mm	0.95mm	6mm	**TP483111060**	Price
1mm	4mm	0.8mm	45mm	0.95mm	8mm	**TP483111080**	Price
1mm	4mm	0.8mm	45mm	0.95mm	10mm	**TP483111100**	Price
1mm	4mm	0.8mm	45mm	0.95mm	12mm	**TP483111112**	Price
1mm	4mm	0.8mm	50mm	0.95mm	16mm	**TP483111116**	Price
1mm	4mm	0.8mm	55mm	0.95mm	20mm	**TP483111120**	Price
1.5mm	4mm	1.2mm	45mm	1.45mm	8mm	**TP483111580**	Price
1.5mm	4mm	1.2mm	45mm	1.45mm	12mm	**TP483111612**	Price
1.5mm	4mm	1.2mm	55mm	1.45mm	16mm	**TP483111616**	Price
1.6mm	4mm	1.3mm	45mm	1.55mm	8mm	**TP483111680**	Price
1.6mm	4mm	1.3mm	50mm	1.55mm	16mm	**TP483111716**	Price
2mm	4mm	1.6mm	45mm	1.95mm	8mm	**TP483112080**	Price
2mm	4mm	1.6mm	45mm	1.95mm	10mm	**TP483112100**	Price
2mm	4mm	1.6mm	45mm	1.95mm	12mm	**TP483112112**	Price
2mm	4mm	1.6mm	50mm	1.95mm	16mm	**TP483112116**	Price
2mm	4mm	1.6mm	55mm	1.95mm	20mm	**TP483112120**	Price
3mm	6mm	2.4mm	50mm	2.85mm	10mm	**TP483123100**	Price
3mm	6mm	2.4mm	55mm	2.85mm	16mm	**TP483123116**	Price
3mm	6mm	2.4mm	60mm	2.85mm	20mm	**TP483123120**	Price
3mm	6mm	2.4mm	80mm	2.85mm	35mm	**TP483123135**	Price
4mm	6mm	3.2mm	60mm	3.85mm	16mm	**TP483124116**	Price
6mm	6mm	4.8mm	80mm	5.85mm	30mm	**TP483126130**	Price

PREMIER HP HIGH PERFORMANCE 2 Flute Rib Processing End Mills Ball Nose

- High speed cutting and finish milling with high feed rate
- AlTiN coating provides higher wear resistance when dry-milling
- Suitable for mold and die work
- Shank tolerance: 0 ~ -.0003”
- O.D. tolerance: .0005” ~ -.0015”



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Effective Length (in.)	Neck Dia.	Order No.	Price
1/32	1/8	3/64	1-7/8	3/16	.029	**DD25EM96700201**	Price
1/32	1/8	3/64	1-7/8	9/32	.029	**DD25EM96700202**	Price
3/64	1/8	1/16	1-7/8	1/4	.045	**DD25EM96700302**	Price
3/64	1/8	1/16	1-7/8	15/32	.045	**DD25EM96700303**	Price
3/64	1/8	1/16	1-7/8	3/16	.045	**DD25EM96700301**	Price
1/16	1/8	3/32	1-7/8	15/32	.060	**DD25EM96700402**	Price
1/16	1/8	3/32	1-7/8	19/32	.060	**DD25EM96700403**	Price
1/16	1/8	3/32	1-7/8	9/32	.060	**DD25EM96700401**	Price
5/64	1/8	1/8	1-7/8	15/32	.076	**DD25EM96700501**	Price
5/64	1/8	1/8	1-7/8	19/32	.076	**DD25EM96700502**	Price
3/32	1/8	9/64	1-7/8	15/32	.090	**DD25EM96700601**	Price
3/32	1/8	9/64	1-7/8	19/32	.090	**DD25EM96700602**	Price
1/8	1/4	3/16	2-1/8	17/32	.120	**DD25EM96700801**	Price
1/8	1/4	3/16	2-1/8	23/32	.120	**DD25EM96700802**	Price

PREMIER HP HIGH PERFORMANCE 2 Flute Rib Processing End Mills

- High speed cutting and finish milling with high feed rate
- AlTiN coating provides higher wear resistance when dry-milling
- Suitable for mold and die work
- Shank tolerance: 0 ~ -.0003”
- O.D. tolerance: .0005” ~ -.0015”



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Effective Length (in.)	Neck Dia.	Order No.	Price
1/32	1/8	3/64	1-7/8	3/16	.029	**DD25EM96600201**	Price
1/32	1/8	3/64	1-7/8	9/32	.029	**DD25EM96600202**	Price
3/64	1/8	1/16	1-7/8	1/4	.045	**DD25EM96600302**	Price
3/64	1/8	1/16	1-7/8	15/32	.045	**DD25EM96600303**	Price

Metric 2 Flute Rib Processing WXS® Coated Carbide End Mills EXOCARB

- For rib processing hardened steels up to 70 HRC
- WXS® coated, higher speeds & feeds
- Radius tolerance ±0.005mm
- OSG List #4590

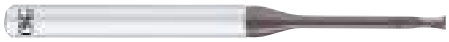


Dia.	Shank Dia.	Flute Length	OAL	Neck Dia.	Neck Length	Order No.	Price
0.5mm	4mm	0.4mm	45mm	0.45mm	1mm	**TP483050500**	Price
0.5mm	4mm	0.4mm	45mm	0.45mm	1.5mm	**TP483050501**	Price
0.5mm	4mm	0.4mm	45mm	0.45mm	2mm	**TP483050502**	Price
0.5mm	4mm	0.4mm	45mm	0.45mm	2.5mm	**TP483049952**	Price
0.5mm	4mm	0.4mm	45mm	0.45mm	3mm	**TP483050503**	Price
0.5mm	4mm	0.4mm	45mm	0.45mm	3.5mm	**TP483049953**	Price
0.5mm	4mm	0.4mm	45mm	0.45mm	4mm	**TP483050504**	Price
0.5mm	4mm	0.4mm	45mm	0.45mm	4.5mm	**TP483049954**	Price
0.5mm	4mm	0.4mm	45mm	0.45mm	5mm	**TP483050505**	Price
0.5mm	4mm	0.4mm	45mm	0.45mm	6mm	**TP483050506**	Price
0.5mm	4mm	0.4mm	45mm	0.45mm	8mm	**TP483050508**	Price
0.5mm	4mm	0.4mm	45mm	0.45mm	10mm	**TP483050510**	Price
0.6mm	4mm	0.5mm	45mm	0.55mm	1.2mm	**TP483050601**	Price
0.6mm	4mm	0.5mm	45mm	0.55mm	2.5mm	**TP483049962**	Price
0.6mm	4mm	0.5mm	45mm	0.55mm	2mm	**TP483050602**	Price
0.6mm	4mm	0.5mm	45mm	0.55mm	3mm	**TP483050603**	Price
0.6mm	4mm	0.5mm	45mm	0.55mm	3.5mm	**TP483049963**	Price
0.6mm	4mm	0.5mm	45mm	0.55mm	4mm	**TP483050604**	Price
0.6mm	4mm	0.5mm	45mm	0.55mm	5mm	**TP483050605**	Price
0.8mm	4mm	0.6mm	45mm	0.75mm	3mm	**TP483050803**	Price
0.8mm	4mm	0.6mm	45mm	0.75mm	8mm	**TP483050808**	Price
0.8mm	4mm	0.6mm	50mm	0.75mm	12mm	**TP483050812**	Price
1mm	4mm	0.8mm	45mm	0.95mm	3mm	**TP483051003**	Price
1mm	4mm	0.8mm	45mm	0.95mm	8mm	**TP483051008**	Price
1mm	4mm	0.8mm	45mm	0.95mm	10mm	**TP483051010**	Price
1mm	4mm	0.8mm	45mm	0.95mm	12mm	**TP483051012**	Price
1mm	4mm	0.8mm	50mm	0.95mm	14mm	**TP483051014**	Price
1mm	4mm	0.8mm	50mm	0.95mm	16mm	**TP483051016**	Price
1mm	4mm	0.8mm	55mm	0.95mm	18mm	**TP483051018**	Price
1.5mm	4mm	1.2mm	45mm	1.45mm	8mm	**TP483051508**	Price
1.5mm	4mm	1.2mm	45mm	1.45mm	12mm	**TP483051512**	Price
1.5mm	4mm	1.2mm	50mm	1.45mm	14mm	**TP483051514**	Price
1.6mm	4mm	1.3mm	45mm	1.55mm	12mm	**TP483051612**	Price
1.6mm	4mm	1.3mm	50mm	1.55mm	16mm	**TP483051616**	Price
2mm	4mm	1.6mm	45mm	1.95mm	6mm	**TP483052006**	Price
2mm	4mm	1.6mm	45mm	1.95mm	8mm	**TP483052008**	Price
2mm	4mm	1.6mm	45mm	1.95mm	10mm	**TP483052010**	Price
2mm	4mm	1.6mm	45mm	1.95mm	12mm	**TP483052012**	Price
2mm	4mm	1.6mm	55mm	1.95mm	20mm	**TP483052020**	Price
2.5mm	4mm	2mm	45mm	2.35mm	10mm	**TP483052510**	Price
2.5mm	4mm	2mm	65mm	2.35mm	25mm	**TP483052525**	Price
3mm	6mm	2.4mm	50mm	2.85mm	6mm	**TP483053006**	Price
3mm	6mm	2.4mm	50mm	2.85mm	8mm	**TP483053008**	Price
3mm	6mm	2.4mm	55mm	2.85mm	12mm	**TP483053012**	Price
3mm	6mm	2.4mm	60mm	2.85mm	20mm	**TP483053020**	Price
3mm	6mm	2.4mm	90mm	2.85mm	40mm	**TP483053040**	Price
4mm	6mm	3.2mm	60mm	3.85mm	8mm	**TP483054008**	Price
4mm	6mm	3.2mm	70mm	3.85mm	25mm	**TP483054025**	Price
5mm	6mm	4mm	70mm	4.85mm	25mm	**TP483055025**	Price

Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Effective Length (in.)	Neck Dia.	Order No.	Price
3/64	1/8	1/16	1-7/8	3/16	.045	**DD25EM96600301**	Price
1/16	1/8	3/32	1-7/8	11/32	.060	**DD25EM96600402**	Price
1/16	1/8	3/32	1-7/8	15/32	.060	**DD25EM96600403**	Price
1/16	1/8	3/32	1-7/8	19/32	.060	**DD25EM96600404**	Price
1/16	1/8	3/32	1-7/8	9/32	.060	**DD25EM96600401**	Price
5/64	1/8	1/8	1-7/8	15/32	.076	**DD25EM96600501**	Price
5/64	1/8	1/8	1-7/8	19/32	.076	**DD25EM96600502**	Price
3/32	1/8	9/64	1-7/8	15/32	.090	**DD25EM96600601**	Price
3/32	1/8	9/64	1-7/8	19/32	.090	**DD25EM96600602**	Price
1/8	1/4	3/16	2-1/8	17/32	.120	**DD25EM96600801**	Price
1/8	1/4	3/16	2-1/8	23/32	.120	**DD25EM96600802**	Price

EXOCARB® WXS® Carbide End Mills

2 Flute



- Reduced neck
- OSG List No. 4592

Size	Shank Dia.	Neck Dia.	Neck Length	Flute Length	OAL	Order No.	Price
0.4mm	4mm	0.37mm	-	0.3mm	50mm	**TP483100403**	Price
0.4mm	4mm	0.37mm	3 mm	0.3mm	50mm	**TP483100404**	Price
0.4mm	4mm	0.37mm	4 mm	0.3mm	50mm	**TP483100405**	Price
0.5mm	4mm	0.46mm	2 mm	0.4mm	50mm	**TP483100508**	Price
0.5mm	4mm	0.46mm	-	0.4mm	50mm	**TP483100510**	Price
0.5mm	4mm	0.46mm	6 mm	0.4mm	50mm	**TP483100512**	Price
1mm	4mm	0.95mm	10 mm	0.8mm	50mm	**TP483101004**	Price
1mm	4mm	0.95mm	12 mm	0.8mm	50mm	**TP483101005**	Price
1mm	4mm	0.95mm	4 mm	0.8mm	50mm	**TP483101006**	Price
1mm	4mm	0.95mm	6 mm	0.8mm	50mm	**TP483101007**	Price
1mm	4mm	0.95mm	8 mm	0.8mm	50mm	**TP483101008**	Price
1mm	4mm	0.95mm	10 mm	0.8mm	50mm	**TP483101009**	Price
1mm	4mm	0.95mm	4 mm	0.8mm	50mm	**TP483101011**	Price
1mm	4mm	0.95mm	6 mm	0.8mm	50mm	**TP483101012**	Price
1mm	4mm	0.95mm	8 mm	0.8mm	50mm	**TP483101013**	Price
1mm	4mm	0.95mm	10 mm	0.8mm	50mm	**TP483101014**	Price
1mm	4mm	0.95mm	16 mm	0.8mm	50mm	**TP483101016**	Price
1mm	4mm	0.95mm	20 mm	0.8mm	50mm	**TP483101017**	Price
1mm	4mm	0.95mm	4 mm	0.8mm	50mm	**TP483101018**	Price
1mm	4mm	0.95mm	8 mm	0.8mm	50mm	**TP483101020**	Price
1mm	4mm	0.95mm	12 mm	0.8mm	50mm	**TP483101022**	Price
1.5mm	4mm	1.45mm	6 mm	1.2mm	50mm	**TP483101501**	Price
1.5mm	4mm	1.45mm	8 mm	1.2mm	50mm	**TP483101502**	Price
1.5mm	4mm	1.45mm	10 mm	1.2mm	50mm	**TP483101503**	Price
1.5mm	4mm	1.45mm	16 mm	1.2mm	50mm	**TP483101505**	Price
1.5mm	4mm	1.45mm	-	1.2mm	50mm	**TP483101506**	Price
1.5mm	4mm	1.45mm	8 mm	1.2mm	50mm	**TP483101507**	Price
1.5mm	4mm	1.45mm	12 mm	1.2mm	50mm	**TP483101509**	Price
2mm	4mm	1.95mm	16 mm	1.6mm	60mm	**TP483102004**	Price
2mm	4mm	1.95mm	20 mm	1.6mm	60mm	**TP483102011**	Price
2mm	4mm	1.95mm	25 mm	1.6mm	70mm	**TP483102012**	Price
2mm	4mm	1.95mm	8 mm	1.6mm	50mm	**TP483102013**	Price
2mm	4mm	1.95mm	10 mm	1.6mm	50mm	**TP483102014**	Price
2mm	4mm	1.95mm	16 mm	1.6mm	60mm	**TP483102016**	Price
2mm	4mm	1.95mm	8 mm	1.6mm	50mm	**TP483102019**	Price
2mm	4mm	1.95mm	-	1.6mm	50mm	**TP483102020**	Price
2mm	4mm	1.95mm	12 mm	1.6mm	50mm	**TP483102021**	Price
2mm	4mm	1.95mm	16 mm	1.6mm	60mm	**TP483102022**	Price
2mm	4mm	1.95mm	20 mm	1.6mm	60mm	**TP483102023**	Price
2mm	4mm	1.95mm	25 mm	1.6mm	70mm	**TP483102024**	Price
2mm	4mm	1.95mm	25 mm	1.6mm	70mm	**TP483102006**	Price
2.5mm	4mm	2.4mm	20 mm	2.2mm	60mm	**TP483102502**	Price
2.5mm	4mm	2.4mm	30 mm	2.2mm	70mm	**TP483102503**	Price
3mm	6mm	2.85mm	8 mm	2.5mm	60mm	**TP483103001**	Price
3mm	6mm	2.85mm	12 mm	2.5mm	60mm	**TP483103002**	Price
3mm	6mm	2.85mm	16 mm	2.5mm	60mm	**TP483103003**	Price
3mm	6mm	2.85mm	20 mm	2.5mm	70mm	**TP483103004**	Price
3mm	6mm	2.85mm	25 mm	2.5mm	70mm	**TP483103005**	Price
3mm	6mm	2.85mm	20 mm	2.5mm	70mm	**TP483103010**	Price
3mm	6mm	2.85mm	25 mm	2.5mm	70mm	**TP483103011**	Price
3mm	6mm	2.85mm	30 mm	2.5mm	70mm	**TP483103018**	Price
3mm	6mm	2.85mm	35 mm	2.5mm	80mm	**TP483103019**	Price

MICRO 100 Solid Carbide Ball End Mold Making End Mills

2 Flute • AlTiN Coated



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Reduced Neck Dia. (in.)	Reduced Neck Length (in.)	Order No.	Price
1mm	6mm	-	50mm	.95	8mm	**GE45MMBM0108X**	Price
1mm	6mm	1mm	57mm	.95mm	11mm	**GE45MMBM01011X**	Price
1mm	6mm	-	50mm	.95mm	15mm	**GE45MMBM01015X**	Price
1mm	6mm	1mm	57mm	.95mm	20mm	**GE45MMBM01020X**	Price
1.5mm	6mm	1.5mm	57mm	1.45mm	7mm	**GE45MMBM0157X**	Price
1.5mm	6mm	1.5mm	57mm	1.45mm	15mm	**GE45MMBM01515X**	Price
1.5mm	6mm	1.5mm	57mm	1.45mm	20mm	**GE45MMBM01520X**	Price
2mm	6mm	2mm	57mm	1.9mm	7mm	**GE45MMBM0207X**	Price
2mm	6mm	2mm	57mm	1.9mm	15mm	**GE45MMBM02015X**	Price
2mm	6mm	2mm	57mm	1.9mm	20mm	**GE45MMBM02020X**	Price
3mm	6mm	3mm	57mm	2.9mm	12mm	**GE45MMBM03012X**	Price
3mm	6mm	3mm	57mm	2.9mm	15mm	**GE45MMBM03015X**	Price

RAPIDKUT® 3 Flute Solid Carbide 35° Helix End Mills



Center Cutting • Radius End

- Special helix for difficult to machine materials such as stainless or inconel
- Small corner radius for added strength and smoother cutting action
- Made from premium submicron grain carbide
- Tolerances +.000/-.002”

					Uncoated		AlTiN	
Dia. (in.)	Radius	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/8	.010	1/8	1/2	1-1/2	**DD8116709**	Price	**DD8156709**	Price
5/32	.010	3/16	9/16	2	**DD8117722**	Price	**DD8157722**	Price
3/16	.010	3/16	9/16	2	**DD8117723**	Price	**DD8157723**	Price
7/32	.020	1/4	3/4	2-1/2	**DD8117724**	Price	**DD8157724**	Price
1/4	.020	1/4	3/4	2-1/2	**DD8116702**	Price	**DD8156702**	Price
5/16	.020	5/16	13/16	2-1/2	**DD8117727**	Price	**DD8157727**	Price
3/8	.020	3/8	1	2-1/2	**DD8117729**	Price	**DD8157729**	Price
7/16	.020	7/16	1	2-3/4	**DD8117730**	Price	**DD8157730**	Price
1/2	.035	1/2	1-1/4	3	**DD8116708**	Price	**DD8156708**	Price
5/8	.035	5/8	1-5/8	3-1/2	**DD8117732**	Price	**DD8157732**	Price
3/4	.035	3/4	1-5/8	4	**DD8117733**	Price	**DD8157733**	Price

RAPIDKUT® 3 Flute Solid Carbide 60° Helix End Mills



Center Cutting

- Used for stainless and high temperature alloy materials
- High helix provides excellent shearing action
- Made from premium submicron grain carbide
- Cutting diameter tolerance: +.000/-.002”

				Uncoated		AlTiN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
3/16	3/16	5/8	2	**DD8110797**	Price	**DD8150797**	Price
1/4	1/4	3/4	2-1/2	**DD8114238**	Price	**DD8154238**	Price
5/16	5/16	13/16	2-1/2	**DD8114240**	Price	**DD8154240**	Price
3/8	3/8	1	2-1/2	**DD8114242**	Price	**DD8154242**	Price
7/16	7/16	1	3	**DD8114246**	Price	**DD8154246**	Price
1/2	1/2	1	3	**DD8114248**	Price	**DD8154248**	Price
9/16	9/16	1-1/4	3-1/2	**DD8114250**	Price	**DD8154250**	Price
5/8	5/8	1-1/4	3-1/2	**DD8114252**	Price	**DD8154252**	Price
3/4	3/4	1-1/2	4	**DD8114254**	Price	**DD8154254**	Price
1	1	1-1/2	4	**DD8114256**	Price	**DD8154256**	Price

MICRO 100 Solid Carbide Mold Making End Mills

2 Flute • AlTiN Coated



Size (in)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Reduced Neck Dia. (in.)	Order No.	Price
1mm	6mm	1mm	57mm	.95mm	**GE45MMRM0105X**	Price
1mm	6mm	1mm	50mm	.95mm	**GE45MMRM0108X**	Price
1mm	6mm	1mm	57mm	.95mm	**GE45MMRM01010X**	Price
1mm	6mm	1mm	50mm	.95mm	**GE45MMRM01012X**	Price
1mm	6mm	1mm	57mm	.95mm	**GE45MMRM01020X**	Price
1.5mm	6mm	1.5mm	57mm	1.45mm	**GE45MMRM0157X**	Price
1.5mm	6mm	1.5mm	57mm	1.45mm	**GE45MMRM01515X**	Price
1.5mm	6mm	1.5mm	57mm	1.45mm	**GE45MMRM01525X**	Price
2mm	5mm	2mm	57mm	1.9mm	**GE45MMRM0207X**	Price
2mm	5mm	2mm	57mm	1.9mm	**GE45MMRM02015X**	Price
2mm	5mm	2mm	57mm	1.9mm	**GE45MMRM02030X**	Price
3mm	6mm	3mm	57mm	2.9mm	**GE45MMRM0308X**	Price
3mm	6mm	3mm	57mm	2.9mm	**GE45MMRM03015X**	Price
3mm	6mm	3mm	57mm	2.9mm	**GE45MMRM03030X**	Price
4mm	6mm	4mm	57mm	3.8mm	**GE45MMRM0409X**	Price
4mm	6mm	4mm	57mm	3.8mm	**GE45MMRM04015X**	Price
4mm	6mm	4mm	57mm	3.8mm	**GE45MMRM04030X**	Price
5mm	6mm	5mm	57mm	4.8mm	**GE45MMRM05030X**	Price
6mm	6mm	6mm	57mm	5.8mm	**GE45MMRM06011X**	Price

RAPIDKUT 2 Flute Solid Carbide Spherical Ball Nose End Mills

Center Cutting • nACO Coated for Hardened Steel

- High performance ball nose plus end mills are used in the mold industry and have a full 220° arc cutting capability
- Tools are stocked with a coating to optimize cutting performance
- Made from premium submicron grain carbide
- Cutting diameter tolerance: +.000/-.002”



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	1/8	.040	1-1/2	**DD8182231**	Price
3/32	1/8	.060	1-1/2	**DD8182233**	Price
1/8	1/8	3/32	1-1/2	**DD8180041**	Price
1/8	1/8	3/32	3	**DD8180321**	Price
3/16	3/16	9/64	3	**DD8180323**	Price
1/4	1/4	3/16	4	**DD8180325**	Price
3/8	3/8	9/32	2-1/2	**DD8180047**	Price
3/8	3/8	9/32	4	**DD8180327**	Price
1/2	1/2	3/8	3	**DD8180049**	Price
1/2	1/2	3/8	6	**DD8180329**	Price

RAPIDKUT Solid Carbide nACo Coated End Mills



2 Flute • For Hardened Steel

- Short flute length with reduced neck for maximum rigidity
- nACo coated for durability
- Use air mist coolant for materials harder than Rc40
- Made from premium submicron grain carbide
- Cutting diameter tolerance: +.000/-.002”

Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	1/8	1/16	3	**DD8113485**	Price
3/32	1/8	3/32	3	**DD8113486**	Price
1/8	1/8	1/8	3	**DD8113136**	Price
3/16	3/16	3/16	3	**DD8113137**	Price
1/4	1/4	1/4	3	**DD8113138**	Price
5/16	5/16	5/16	3	**DD8113139**	Price
3/8	3/8	3/8	4	**DD8113140**	Price
1/2	1/2	1/2	4	**DD8113141**	Price

Metric 2 Flute Ball Nose WXL® Coated Carbide End Mills

EXOCARB

- For profile milling in non-ferrous and hardened steels
- WXL® coated
- Tolerance for milling diameter: less than 6 +0.005mm — greater than 6 +0.010mm
- OSG List #3710



Dia.	Shank Dia.	Flute Length	OAL	Order No.	Price
0.4mm	4mm	0.8mm	40mm	**TP483105040**	Price
0.5mm	4mm	1.1mm	40mm	**TP483105050**	Price
0.6mm	4mm	1.1mm	40mm	**TP483105060**	Price
0.8mm	4mm	2.0mm	40mm	**TP483105080**	Price
1.0mm	4mm	1.5mm	50mm	**TP483105100**	Price
1.2mm	4mm	3.0mm	50mm	**TP483105120**	Price
2.0mm	6mm	5.0mm	50mm	**TP483106200**	Price
3.0mm	6mm	8.0mm	60mm	**TP483106301**	Price
5.0mm	6mm	8.0mm	80mm	**TP483106500**	Price
6.0mm	6mm	12.0mm	90mm	**TP483106601**	Price
8.0mm	8mm	14.0mm	100mm	**TP483106621**	Price
10.0mm	10mm	18.0mm	100mm	**TP483106641**	Price
12.0mm	12mm	18.0mm	110mm	**TP483106660**	Price

Metric 2 Flute Ball Nose WXS® Coated Carbide End Mills

EXOCARB

- For profile milling in hardened steels up to 70 HRC
- WXS® coated, higher speeds & feeds
- Tolerance for milling diamater: R<6 +0.005mm; R>6 +0.010mm
- OSG List #4510



Dia.	Shank Dia.	Flute Length	OAL	Neck Dia.	Neck Length	Order No.	Price
1mm	4mm	1mm	50mm	0.95mm	2mm	**TP483041410**	Price
1.5mm	4mm	1.5mm	50mm	1.45mm	3mm	**TP483041415**	Price
2mm	6mm	2mm	50mm	1.95mm	4mm	**TP483041420**	Price
3mm	6mm	3mm	60mm	2.85mm	6mm	**TP483041430**	Price
4mm	4mm	4mm	60mm	3.85mm	8mm	**TP483041441**	Price
4mm	6mm	4mm	70mm	3.85mm	8mm	**TP483041440**	Price
5mm	6mm	5mm	80mm	4.85mm	10mm	**TP483041450**	Price
6mm	6mm	9mm	90mm	-	-	**TP483041460**	Price
8mm	8mm	12mm	100mm	-	-	**TP483041480**	Price
10mm	10mm	15mm	100mm	-	-	**TP483041500**	Price
12mm	12mm	18mm	110mm	-	-	**TP483041520**	Price

TuffCut® DM 2 Flute High Performance End Mills



Metric Sizes

- Designed for high productivity milling of hard and difficult to cut materials Rc 45-60
- Coated with ALtima® 52 for materials Rc 52 and above
- 12° Helix, ball end
- M. A. Ford Series #156

Size	Shank Dia.	Flute Length	OAL	Neck Length	Order No.	Price
0.5mm	6mm	0.5mm	63mm	0.5mm	**DD1515602**	Price
1mm	6mm	1mm	63mm	1mm	**DD1515616**	Price
1mm	6mm	1mm	63mm	6mm	**DD1515618**	Price
1mm	6mm	1mm	63mm	8mm	**DD1515620**	Price
1mm	6mm	1mm	63mm	10mm	**DD1515622**	Price
1mm	6mm	1mm	63mm	16mm	**DD1515626**	Price
1mm	6mm	1mm	63mm	12mm	**DD1515624**	Price
1.5mm	6mm	1.5mm	63mm	1.5mm	**DD1515628**	Price
2mm	6mm	2mm	63mm	8mm	**DD1515634**	Price
2mm	6mm	2mm	63mm	20mm	**DD1515638**	Price
2mm	6mm	2mm	63mm	12mm	**DD1515636**	Price
2mm	6mm	2mm	63mm	2mm	**DD1515632**	Price
3mm	6mm	3mm	75mm	3mm	**DD1515648**	Price
3mm	6mm	3mm	75mm	20mm	**DD1515650**	Price
3mm	6mm	3mm	75mm	12mm	**DD1515676**	Price
4mm	6mm	4mm	75mm	4mm	**DD1515658**	Price
4mm	6mm	4mm	75mm	12mm	**DD1515678**	Price
4mm	6mm	4mm	75mm	20mm	**DD1515679**	Price
5mm	6mm	5mm	75mm	12mm	**DD1515681**	Price
5mm	6mm	5mm	75mm	5mm	**DD1515680**	Price
5mm	6mm	5mm	75mm	25mm	**DD1515682**	Price
6mm	6mm	6mm	75mm	12mm	**DD1515683**	Price
6mm	6mm	6mm	75mm	6mm	**DD1515660**	Price
6mm	6mm	6mm	75mm	25mm	**DD1515684**	Price
8mm	8mm	8mm	80mm	8mm	**DD1515666**	Price
10mm	10mm	10mm	82mm	-	**DD1515670**	Price
12mm	12mm	12mm	100mm	-	**DD1515672**	Price

RAPIDKUT 2 Flute Solid Carbide Ball Nose End Mills



Metric Sizes • Center Cutting • AlTiN Coated for Hard Materials

- Specially designed for profiling hardened steels up to 56 Rc

Dia.	Shank Dia.	No. of Flutes	Flute Length	OAL	Order No.	Price
1mm	6mm	2	3mm	50mm	**DC6110001**	Price
2mm	6mm	2	4mm	50mm	**DC6110002**	Price
3mm	6mm	2	5mm	50mm	**DC6110003**	Price
4mm	6mm	2	6mm	50mm	**DC6110004**	Price
5mm	6mm	2	7mm	50mm	**DC6110005**	Price
6mm	6mm	2	7mm	51mm	**DC6110006**	Price
8mm	8mm	2	9mm	59mm	**DC6110007**	Price
10mm	10mm	2	10mm	60mm	**DC6110008**	Price
12mm	12mm	2	14mm	71mm	**DC6110009**	Price
16mm	16mm	2	16mm	76mm	**DC6110010**	Price
20mm	20mm	2	20mm	82mm	**DC6110011**	Price

3 Flute Solid Carbide Ball Nose End Mills



Variable Helix • Eccentric OD

- 45° Chamfer
- PCT List #0360

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Reach (in.)	Order No.	Price
1/4	1/4	3/8	4	2-1/8	**CW8050000**	Price
1/4	1/4	1/2	2	-	**CW8050010**	Price
3/8	3/8	1/2	4	2-1/8	**CW8050060**	Price
3/8	3/8	1	2-1/2	-	**CW8050080**	Price
1/2	1/2	5/8	6	4-1/8	**CW8050120**	Price
1/2	1/2	1	3	-	**CW8050130**	Price
5/8	5/8	3/4	5	3-1/8	**CW8050160**	Price
5/8	5/8	3/4	6	4-1/8	**CW8050170**	Price
5/8	5/8	1-1/4	3-1/2	-	**CW8050180**	Price
3/4	3/4	1	4	2	**CW8050200**	Price
3/4	3/4	1	5	3	**CW8050210**	Price
3/4	3/4	1	6	4	**CW8050220**	Price
3/4	3/4	1-1/2	4	-	**CW8050230**	Price
1	1	1-1/4	5	3	**CW8050250**	Price
1	1	1-1/4	6	4	**CW8050260**	Price
1	1	1-1/2	4	-	**CW8050270**	Price

truCORE® E520B Solid Carbide 2 Flute Ball End Die Mold Mill

MADE IN THE USA

- Designed for general contouring applications in hardened materials
- Added length and necked shank allow for stability when machining in deeper cavities
- AlTiN coated
- 15° Helix



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Neck Relief	Neck Dia.	Order No.	Price
1/8	1/4	1/8	3	3/8	.118	**DD4034288**	Price
3/16	1/4	3/16	3	9/16	.176	**DD4034289**	Price
1/4	1/4	1/4	3	1-5/8	.235	**DD4034290**	Price
3/8	3/8	3/8	4	2-1/4	.355	**DD4034292**	Price
1/2	1/2	1/2	4	2-1/4	.475	**DD4034293**	Price

TuffCut® DM 2 Flute High Performance End Mills

Fractional Sizes



- Designed for high productivity milling of hard and difficult to cut materials Rc 45-60
- Coated with ALtima® 52 for materials Rc 52 and above
- 12° Helix, ball end
- M. A. Ford Series #156

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Neck Length	Order No.	Price
1/64	1/4	1/64	2-1/2	1/64	**DD1515600**	Price
1/32	1/4	1/32	2-1/2	1/32	**DD1515604**	Price
1/32	1/4	1/32	2-1/2	1/4	**DD1515606**	Price
1/32	1/4	1/32	2-1/2	5/16	**DD1515608**	Price
1/32	1/4	1/32	2-1/2	3/8	**DD1515610**	Price
1/32	1/4	1/32	2-1/2	1/2	**DD1515612**	Price
1/32	1/4	1/32	2-1/2	5/8	**DD1515614**	Price
1/16	1/4	1/16	2-1/2	1/16	**DD1515630**	Price
3/32	1/4	3/32	2-1/2	3/32	**DD1515640**	Price
3/32	1/4	3/32	2-1/2	5/16	**DD1515642**	Price
3/32	1/4	3/32	2-1/2	1/2	**DD1515644**	Price
3/32	1/4	3/32	2-1/2	3/4	**DD1515646**	Price
1/8	1/4	1/8	3	1/8	**DD1515652**	Price
1/8	1/4	1/8	3	3/4	**DD1515654**	Price
5/32	1/4	5/32	3	5/32	**DD1515656**	Price
1/4	1/4	1/4	3	1/4	**DD1515662**	Price
5/16	5/16	5/16	3-1/8	5/16	**DD1515664**	Price
3/8	3/8	3/8	3-1/4	3/8	**DD1515668**	Price
1/2	1/2	1/2	4	1/2	**DD1515674**	Price

2 Flute Ball Nose WXS® Coated Carbide End Mills

EXOCARB



- High efficiency milling in mild, stainless, and hardened steels up to 70 HRC
- WXS® coating utilizes nanotechnology coating increasing productivity and tool life versus TiAlN
- EXO® coating is a patented multilayer TiAlN and allows for high spindle speeds and feeds with long life in cast irons and steels up to 60 HRC
- TiAlN coated SUS end mills are particularly designed for exotic materials, including stainless steels, titanium, and nickel based alloys
- SUS end mills have a patented anti-vibration design, reducing chatter and increasing
- Tolerance for milling diameter: R<1/4 +0.0002"; R>1/4 +0.0004"
- OSG List #4410

Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Neck Dia.	Neck Length	Order No.	Price
1/32	1/4	1/32	1-1/2	.0290	.0780	**TP4844100111**	Price
1/16	1/4	1/16	1-1/2	.0580	.1260	**TP4844100211**	Price
3/32	1/4	3/32	1-1/2	.0900	.1890	**TP4844100511**	Price
1/8	1/4	1/8	2	.1210	.2500	**TP4844100711**	Price
3/16	1/4	3/16	2-1/2	.1830	.3780	**TP4844100911**	Price
1/4	1/4	1/4	3	.2460	.5040	**TP4844101111**	Price
5/16	5/16	5/16	3-1/2	.3080	.6300	**TP4844101311**	Price
3/8	3/8	3/8	3-1/2	.3710	.7560	**TP4844101411**	Price
1/2	1/2	1/2	4	0.496"	1	**TP4844101611**	Price

2 Flute Ball Nose WXL® Coated Carbide End Mills

EXOCARB

- High efficiency milling in a wide range of materials including non-ferrous, mild steels, and hardened steels up to 50 HRc
- For profile milling in non ferrous and hardened steels
- WXL® coated, enhanced geometry and substrate
- Tolerance for milling diameter: R<1/4 +.0002"; R>1/4 +.0004"
- OSG List #3610



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/32	1/4	1/32	2-1/2	**TP4836100111**	Price
1/16	1/4	1/16	2-1/2	**TP4836100211**	Price
3/32	1/4	3/32	2-1/2	**TP4836100311**	Price
1/8	1/4	1/8	3	**TP4836100411**	Price
3/16	1/4	3/16	3	**TP4836100511**	Price
1/4	1/4	1/4	3	**TP4836100611**	Price
5/16	5/16	5/16	4	**TP4836100711**	Price
3/8	3/8	3/8	4	**TP4836100811**	Price
1/2	1/2	1/2	4	**TP4836100911**	Price

3 Flute Solid Carbide End Mills

Variable Helix • Eccentric OD

- 45° Chamfer
- PCT List #0360



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Reach (in.)	Order No.	Price
1/4	1/4	1/2	2	-	**CW8050015**	Price
1/4	1/4	3/8	4	2-1/8	**CW8050005**	Price
3/8	3/8	1/2	4	2-1/8	**CW8050065**	Price
3/8	3/8	1	2-1/2	-	**CW8050085**	Price
1/2	1/2	5/8	6	4-1/8	**CW8050125**	Price
1/2	1/2	1	3	-	**CW8050135**	Price
5/8	5/8	3/4	5	3-1/8	**CW8050165**	Price
5/8	5/8	3/4	6	4-1/8	**CW8050175**	Price
5/8	5/8	1-1/4	3-1/2	-	**CW8050185**	Price
3/4	3/4	1	4	2	**CW8050205**	Price
3/4	3/4	1	5	3	**CW8050215**	Price
3/4	3/4	1	6	4	**CW8050225**	Price
3/4	3/4	1-1/2	4	-	**CW8050235**	Price
1	1	1-1/4	5	3	**CW8050255**	Price
1	1	1-1/4	6	4	**CW8050265**	Price
1	1	1-1/2	4	-	**CW8050275**	Price

WIDIA Solid Carbide Varimill GP Ball Nose End Mills

2 Flute • TiAlN Coated



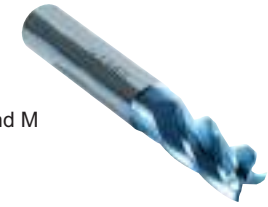
- Center cutting
- Cylindrical shanks
- TiAlN coated for longer tool life

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	Order No.	Price
1/16	1/8	3/16	**WK405878173**	Price
1/8	1/8	1/2	**WK405878180**	Price
3/16	3/16	5/8	**WK405878186**	Price
3/16	3/16	1	**WK405878188**	Price
1/4	1/4	1/2	**WK405878190**	Price
1/4	1/4	3/4	**WK405878191**	Price
3/8	3/8	7/8	**WK405878200**	Price
1/2	1/2	1	**WK405878207**	Price

HAIMER 4 Flute Carbide End Mills - F2014

With Corner Radius

- Straight shank with optional patented Safe-Lock tool pull out protection
- Center cutting
- Runout <.0004”
- Variable helix for roughing and finishing
- For most all materials but best for ISO P, and M
- Straight shank shown



					Safe-Lock		Straight Shank	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Corner Radius (in.)	Order No.	Price	Order No.	Price
1/4	1/4	7/16	2-1/2	.015	-	-	**HA76NH14ZR015DA**	Price
1/4	1/4	7/16	2-1/2	.030	-	-	**HA76NH14ZR030DA**	Price
5/16	5/16	13/16	2-1/2	.015	-	-	**HA76NH516ZR015D**	Price
5/16	5/16	13/16	2-1/2	.030	-	-	**HA76NH516ZR030D**	Price
3/8	3/8	7/8	2-1/2	.030	-	-	**HA76NH38ZR030DA**	Price
1/2	1/2	5/8	2-1/2	.015	-	-	**HA76KH12ZR015DA**	Price
1/2	1/2	5/8	2-1/2	.030	-	-	**HA76KH12ZR030DA**	Price
1/2	1/2	1	3	.030	**HA76NL12ZR030DA**	Price	**HA76NH12ZR030DA**	Price
1/2	1/2	1	3	.060	**HA76NL12ZR060DA**	Price	**HA76NH12ZR060DA**	Price
1/2	1/2	1-1/4	3-1/2	.015	**HA76LL12ZR015DA**	Price	**HA76LH12ZR015DA**	Price
1/2	1/2	1-1/4	3-1/2	.030	**HA76LL12ZR030DA**	Price	**HA76LH12ZR030DA**	Price
1/2	1/2	1-1/4	3-1/2	.060	**HA76LL12ZR060DA**	Price	**HA76LH12ZR060DA**	Price
5/8	5/8	1-1/4	4	.030	**HA76NL58ZR030DA**	Price	**HA76NH58ZR030DA**	Price
5/8	5/8	1-1/4	4	.060	**HA76NL58ZR060DA**	Price	**HA76NH58ZR060DA**	Price
3/4	3/4	1-1/2	4	.030	**HA76NL34ZR030DA**	Price	**HA76NH34ZR030DA**	Price
3/4	3/4	1-1/2	4	.060	**HA76NL34ZR060DA**	Price	**HA76NH34ZR060DA**	Price
3/4	3/4	1-1/2	4	.090	**HA76NL34ZR090DA**	Price	**HA76NH34ZR090DA**	Price
3/4	3/4	1-1/2	4	.125	**HA76NL34ZR125DA**	Price	**HA76NH34ZR125DA**	Price

RAPIDKUT® 4 Flute Solid Carbide End Mills

Variable Helix • Full Eccentric Grind

nACO

Maximize productivity when machining titanium, stainless and alloyed steels and all ferrous materials

- Chatter-free machining
- Heavier feed rates
- Superior surface finishes
- Effective in machining all ferrous materials up to 54 HRc

Versatile tooling for roughing, semi-finishing & finishing operations
Heavy slotting — can slot up to 1xD axial depth
Heavy profiling — up to full flute length and 50% radial depth of cut



Dia. (in.)	Shank (in.)	LOC (in.)	OAL (in.)	Chamfer	Order No.	Price
1/8	1/8	1/2	1-1/2	.011 x 45°	**DD8115671**	Price
3/16	3/16	5/8	2	.011 x 45°	**DD8115672**	Price
1/4	1/4	1/2	2	.011 x 45°	**DD8115673**	Price
1/4	1/4	3/4	2-1/2	.011 x 45°	**DD8115675**	Price
5/16	5/16	13/16	2-1/2	.011 x 45°	**DD8115676**	Price
3/8	3/8	5/8	2	.011 x 45°	**DD8115677**	Price
3/8	3/8	1	2-1/2	.011 x 45°	**DD8115679**	Price
1/2	1/2	5/8	2-1/2	.011 x 45°	**DD8115681**	Price
1/2	1/2	1	3	.011 x 45°	**DD8115683**	Price
1/2	1/2	1-1/4	3	.011 x 45°	**DD8115685**	Price
5/8	5/8	3/4	3	.022 x 45°	**DD8115687**	Price
5/8	5/8	1-1/4	3-1/2	.022 x 45°	**DD8115689**	Price
3/4	3/4	1	3	.022 x 45°	**DD8115691**	Price
3/4	3/4	1-1/2	4	.022 x 45°	**DD8115693**	Price
1	1	1-1/2	4	.022 x 45°	**DD8115695**	Price

RAPIDKUT® 4 Flute Solid Carbide Variable Helix End Mills

Center Cutting • Radius End

AlTiN

- Helix changes along flutes
- Substantial increases in speed
- AlTiN coated for improved tool life and increased production output
- Made from premium submicron grain carbide
- Cutting diameter tolerance: +.000/.002”



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price
1/8	1/8	1/2	1-1/2	.015	**DD8110813**	Price
3/16	3/16	3/8	1-1/2	.020	**DD8112375**	Price
3/16	3/16	5/8	2	.020	**DD8110981**	Price
1/4	1/4	1/2	2	.020	**DD8110003**	Price
1/4	1/4	3/4	2-1/2	.020	**DD8110005**	Price
1/4	1/4	1-1/8	3	.020	**DD8110007**	Price
5/16	5/16	1/2	2	.020	**DD8110009**	Price
5/16	5/16	13/16	2-1/2	.020	**DD8110011**	Price
5/16	5/16	1-1/8	3	.020	**DD8110013**	Price
3/8	3/8	5/8	2	.020	**DD8110015**	Price
3/8	3/8	1	2-1/2	.020	**DD8110017**	Price
3/8	3/8	1-1/8	3	.020	**DD8110019**	Price
7/16	7/16	1	2-3/4	.020	**DD8110021**	Price
1/2	1/2	5/8	2-1/2	.030	**DD8110023**	Price
1/2	1/2	1	3	.030	**DD8110025**	Price
1/2	1/2	1-1/4	3	.030	**DD8112371**	Price
1/2	1/2	2	4	.030	**DD8110027**	Price
5/8	5/8	3/4	3	.035	**DD8110029**	Price
5/8	5/8	1-1/4	3-1/2	.035	**DD8110031**	Price
5/8	5/8	2-1/4	5	.035	**DD8110033**	Price
3/4	3/4	1	3	.035	**DD8110035**	Price
3/4	3/4	1-1/2	4	.035	**DD8110037**	Price
3/4	3/4	2-1/4	5	.035	**DD8110039**	Price
1	1	1-1/2	4	.035	**DD8110985**	Price
1	1	2-1/4	5	.035	**DD8113049**	Price
1-1/4	1-1/4	2-1/4	5	.035	**DD8113051**	Price

4 Flute Solid Carbide End Mills

Variable Helix

- Variantra ® Supral (TiAlCN) coated
- 45° Chamfer
- PCT List #0451



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Reach (in.)	Order No.	Price
1/8	1/8	1/2	1-1/2	-	**CW8055230**	Price
3/16	3/16	5/8	2	-	**CW8055260**	Price
1/4	1/4	3/4	2-1/2	-	**CW8055300**	Price
1/4	1/4	3/8	4	2-1/8	**CW8005195**	Price
5/16	5/16	1/2	2	-	**CW8051T40505002**	Price
5/16	5/16	7/8	2-1/2	-	**CW8055320**	Price
3/8	3/8	1/2	6	3-3/8	**CW8005255**	Price
3/8	3/8	1	3	-	**CW8021540**	Price
7/16	7/16	1	2-3/4	-	**CW8021595**	Price
1/2	1/2	5/8	5	3-1/8	**CW8005310**	Price
1/2	1/2	5/8	6	4-1/8	**CW8005315**	Price
1/2	1/2	1-1/4	3	-	**CW8055410**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Reach (in.)	Order No.	Price
1/2	1/2	2	4	-	**CW8021700**	Price
5/8	5/8	3/4	5	3-1/8	**CW8005360**	Price
5/8	5/8	3/4	6	4-1/8	**CW8005365**	Price
5/8	5/8	1-1/4	3-1/2	-	**CW8055430**	Price
3/4	3/4	1	5	3	**CW8005400**	Price
3/4	3/4	1	6	4	**CW8005405**	Price
3/4	3/4	1-1/2	4	-	**CW8055500**	Price
1	1	1-1/4	6	3-1/8	**CW8005440**	Price
1	1	1-1/4	7	4-1/8	**CW8005445**	Price
1	1	1-1/2	4	-	**CW8021950**	Price
1	1	3	6	-	**CW8021990**	Price

POW•R•FEED® M904 Solid Carbide 4 Flute Variable Index End Mills

- Known for it's power, balance, and versatility in a wide range of materials
- AlTiNX coating for higher hot hardness than conventional "general purpose" tools
- Unique vibration dampening geometry for chatter-free machining
- Round shank, 38° helix







					Round Shank		Weldon Shank	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price	Order No.	Price
1/8	1/8	1/4	1-1/2	.015	**DD4063248**	Price	-	-
1/8	1/8	1/2	1-1/2	.015	**DD4063064**	Price	-	-
1/8	1/8	1/2	1-1/2	None	**DD4063010**	Price	-	-
5/32	3/16	9/16	2	.015	**DD4063118**	Price	-	-
5/32	3/16	9/16	2	None	**DD4063011**	Price	-	-
3/16	3/16	5/16	2	.015	**DD4063249**	Price	-	-
3/16	3/16	5/8	2	.015	**DD4063065**	Price	-	-
3/16	3/16	5/8	2	None	**DD4063012**	Price	-	-
7/32	1/4	5/8	2-1/2	.020	**DD4063119**	Price	-	-
7/32	1/4	5/8	2-1/2	None	**DD4063013**	Price	-	-
1/4	1/4	3/8	2	.020	**DD4063058**	Price	-	-
1/4	1/4	3/8	2	None	**DD4063003**	Price	-	-
1/4	1/4	3/4	2-1/2	.020	**DD4063066**	Price	-	-
1/4	1/4	3/4	2-1/2	.030	**DD4063466**	Price	-	-
1/4	1/4	3/4	2-1/2	None	**DD4063014**	Price	-	-
1/4	1/4	1-1/8	3	.020	**DD4063420**	Price	-	-
1/4	1/4	1-1/2	4	.020	**DD4063425**	Price	-	-
5/16	5/16	13/16	2-1/2	.020	**DD4063067**	Price	-	-
5/16	5/16	13/16	2-1/2	None	**DD4063016**	Price	-	-
3/8	3/8	1/2	2	.020	**DD4063059**	Price	-	-
3/8	3/8	1/2	2	None	**DD4063004**	Price	-	-
3/8	3/8	7/8	2-1/2	.020	**DD4063068**	Price	**DD4063083**	Price
3/8	3/8	7/8	2-1/2	.030	**DD4063390**	Price	**DD4063400**	Price
3/8	3/8	7/8	2-1/2	None	**DD4063018**	Price	**DD4063043**	Price
3/8	3/8	1-1/8	3	.020	**DD4063421**	Price	-	-
3/8	3/8	1-3/4	4	.020	**DD4063426**	Price	-	-
7/16	7/16	1	2-3/4	.020	**DD4063069**	Price	-	-
7/16	7/16	1	2-3/4	None	**DD4063020**	Price	-	-
1/2	1/2	5/8	2-1/2	.030	**DD4063060**	Price	-	-
1/2	1/2	5/8	2-1/2	None	**DD4063005**	Price	-	-
1/2	1/2	1	3	.030	**DD4063070**	Price	**DD4063085**	Price
1/2	1/2	1	3	None	**DD4063022**	Price	**DD4063045**	Price
1/2	1/2	1-1/4	3	.030	**DD4063098**	Price	**DD4063099**	Price
1/2	1/2	1-1/4	3	.060	-	-	**DD4063401**	Price
1/2	1/2	1-1/4	3	.125	**DD4063393**	Price	**DD4063403**	Price
1/2	1/2	1-1/4	3	None	**DD4063100**	Price	**DD4063101**	Price
1/2	1/2	2	4	.030	**DD4063422**	Price	-	-
1/2	1/2	2-1/2	5	.030	**DD4063427**	Price	-	-
5/8	5/8	1-1/4	3-1/2	None	**DD4063024**	Price	**DD4063046**	Price
5/8	5/8	1-1/4	3-1/2	.030	**DD4063071**	Price	**DD4063086**	Price
3/4	3/4	1-1/2	4	.060	-	-	**DD4063405**	Price
3/4	3/4	1-1/2	4	.030	**DD4063072**	Price	**DD4063087**	Price
3/4	3/4	1-1/2	4	.125	**DD4063397**	Price	**DD4063407**	Price
3/4	3/4	1-1/2	4	None	**DD4063025**	Price	**DD4063047**	Price
3/4	3/4	2-1/4	5	.030	**DD4063423**	Price	-	-
3/4	3/4	3	6	.030	**DD4063428**	Price	-	-
1	1	1-1/2	4	.030	**DD4063073**	Price	-	-
1	1	1-1/2	4	None	**DD4063026**	Price	-	-
1	1	3	6	.030	**DD4063429**	Price	-	-
1	1	4-1/8	7	.030	**DD4063432**	Price	-	-

POW•R•FEED® M924 Solid Carbide 4 Flute Variable Index End Mill

MADE IN THE USA

Square End and Corner Radius Styles

- Top of its class for aggressive slotting, peripheral milling and plunging in all ferrous materials
- New advanced coating and tool design improves tool life exponentially
- Unique vibration dampening geometry for chatter-free machining
- AlCrN-X coating
- 38° Helix, round or Weldon style shank







					.015		.030		.060		.120		None	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Shank Type	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	1/4	1-1/2	Round Shank	DD4167495	Price	-	-	-	-	-	-	DD4167494	Price
1/8	1/8	1/2	1-1/2	Round Shank	DD4167499	Price	-	-	-	-	-	-	DD4167498	Price
1/8	1/8	3/4	2-1/4	Round Shank	DD4167503	Price	-	-	-	-	-	-	DD4167502	Price
5/32	3/16	5/16	2	Round Shank	DD4167538	Price	-	-	-	-	-	-	DD4167536	Price
5/32	3/16	9/16	2	Round Shank	DD4167539	Price	-	-	-	-	-	-	DD4167537	Price
3/16	3/16	5/16	2	Round Shank	DD4167507	Price	DD4167508	Price	-	-	-	-	DD4167506	Price
3/16	3/16	9/16	2	Round Shank	DD4167511	Price	DD4167512	Price	-	-	-	-	DD4167510	Price
3/16	3/16	3/4	2-1/2	Round Shank	DD4167515	Price	DD4167516	Price	-	-	-	-	DD4167514	Price
7/32	1/4	3/4	2-1/2	Round Shank	DD4167544	Price	-	-	-	-	-	-	DD4167542	Price
1/4	1/4	3/8	2	Round Shank	DD4167519	Price	DD4167520	Price	-	-	-	-	DD4167518	Price
7/32	1/4	3/8	2	Round Shank	DD4167543	Price	-	-	-	-	-	-	DD4167541	Price
1/4	1/4	3/4	2-1/2	Round Shank	DD4167525	Price	DD4167526	Price	DD4167527	Price	-	-	DD4167524	Price
1/4	1/4	1-1/4	3	Round Shank	DD4167531	Price	DD4167532	Price	-	-	-	-	DD4167530	Price
1/4	1/4	1-3/4	4	Round Shank	DD4167547	Price	DD4167548	Price	-	-	-	-	DD4167546	Price
9/32	5/16	3/4	2-1/2	Round Shank	DD4167550	Price	DD4167551	Price	-	-	-	-	DD4167549	Price
5/16	5/16	7/16	2	Round Shank	DD4167093	Price	DD4167094	Price	-	-	-	-	DD4167092	Price
5/16	5/16	13/16	2-1/2	Round Shank	DD4167099	Price	DD4167100	Price	DD4167101	Price	-	-	DD4167098	Price
5/16	5/16	1-1/4	3	Round Shank	DD4167105	Price	DD4167106	Price	-	-	-	-	DD4167104	Price
5/16	5/16	2-1/8	4	Round Shank	DD4167111	Price	DD4167112	Price	-	-	-	-	DD4167110	Price
3/8	3/8	1/2	2	Round Shank	DD4167117	Price	DD4167118	Price	-	-	-	-	DD4167116	Price
3/8	3/8	7/8	2-1/2	Round Shank	DD4167125	Price	DD4167126	Price	DD4167127	Price	-	-	DD4167124	Price
3/8	3/8	7/8	2-1/2	Weldon Shank	DD4168116	Price	DD4168117	Price	-	-	-	-	DD4168195	Price
3/8	3/8	1-1/4	3	Round Shank	DD4167133	Price	DD4167134	Price	DD4167135	Price	-	-	DD4167132	Price
3/8	3/8	1-1/4	3	Weldon Shank	DD4168119	Price	DD4168120	Price	-	-	-	-	DD4168196	Price
3/8	3/8	2	4	Round Shank	DD4167165	Price	DD4167166	Price	DD4167167	Price	-	-	DD4167164	Price
7/16	7/16	1	2-3/4	Round Shank	-	-	DD4167190	Price	-	-	-	-	DD4167188	Price
1/2	1/2	5/8	2-1/2	Round Shank	-	-	DD4167206	Price	DD4167207	Price	-	-	DD4167204	Price
1/2	1/2	1	3	Round Shank	DD4167214	Price	DD4167215	Price	DD4167216	Price	DD4167218	Price	DD4167213	Price
1/2	1/2	1-1/4	3	Round Shank	DD4167223	Price	DD4167224	Price	DD4167225	Price	DD4167227	Price	DD4167222	Price
1/2	1/2	1-1/4	3	Weldon Shank	DD4168131	Price	DD4168132	Price	-	-	-	-	DD4168201	Price
1/2	1/2	1-5/8	4	Round Shank	-	-	DD4167233	Price	DD4167234	Price	DD4167236	Price	-	-
1/2	1/2	1-5/8	4	Weldon Shank	-	-	DD4168136	Price	-	-	-	-	DD4168202	Price
1/2	1/2	2-1/8	4	Round Shank	-	-	DD4167251	Price	DD4167252	Price	DD4167254	Price	DD4167249	Price
1/2	1/2	2-5/8	5	Round Shank	-	-	DD4167260	Price	DD4167261	Price	-	-	DD4167258	Price
1/2	1/2	3-1/4	6	Round Shank	-	-	DD4167269	Price	DD4167270	Price	-	-	DD4167267	Price
5/8	5/8	3/4	3	Round Shank	-	-	DD4167278	Price	DD4167279	Price	-	-	DD4167276	Price
5/8	5/8	1-3/8	3-1/2	Round Shank	-	-	DD4167288	Price	DD4167289	Price	-	-	DD4167286	Price
5/8	5/8	1-3/8	3-1/2	Weldon Shank	-	-	DD4168147	Price	-	-	-	-	DD4168206	Price
5/8	5/8	2-1/8	4	Round Shank	-	-	DD4167298	Price	DD4167299	Price	-	-	DD4167296	Price
5/8	5/8	2-1/8	4	Weldon Shank	-	-	DD4168149	Price	-	-	-	-	DD4168207	Price
5/8	5/8	2-5/8	5	Round Shank	-	-	DD4167318	Price	DD4167319	Price	-	-	DD4167316	Price
5/8	5/8	3-1/4	6	Round Shank	-	-	-	-	-	-	-	-	DD4167326	Price
3/4	3/4	1	3	Round Shank	-	-	DD4167348	Price	DD4167349	Price	-	-	DD4167346	Price
3/4	3/4	1-5/8	4	Round Shank	-	-	DD4167358	Price	DD4167359	Price	DD4167361	Price	DD4167356	Price
3/4	3/4	1-5/8	4	Weldon Shank	-	-	DD4168155	Price	-	-	-	-	DD4168210	Price
3/4	3/4	2-3/8	5	Round Shank	-	-	DD4167368	Price	DD4167369	Price	DD4167371	Price	DD4167366	Price
3/4	3/4	2-3/8	5	Weldon Shank	-	-	DD4168158	Price	-	-	-	-	DD4168211	Price
3/4	3/4	3-1/4	6	Round Shank	-	-	DD4167388	Price	DD4167389	Price	-	-	DD4167386	Price
3/4	3/4	4-1/8	7	Round Shank	-	-	DD4167398	Price	DD4167399	Price	-	-	DD4167396	Price
1	1	1-3/4	4	Round Shank	-	-	DD4167408	Price	DD4167409	Price	-	-	DD4167406	Price
1	1	1-3/4	4	Weldon Shank	-	-	DD4168167	Price	-	-	-	-	DD4168214	Price
1	1	2-1/4	5	Round Shank	-	-	DD4167419	Price	-	-	-	-	DD4167417	Price
1	1	2-1/4	5	Weldon Shank	-	-	DD4168171	Price	-	-	-	-	DD4168215	Price
1	1	3-1/4	6	Round Shank	-	-	DD4167441	Price	-	-	-	-	DD4167439	Price
1	1	4-1/4	7	Round Shank	-	-	DD4167452	Price	-	-	-	-	DD4167450	Price

Weldon style shanks available in most sizes-call for quote!

WIDIA Solid Carbide HP Varimill I™ End Mills

4 Flute • AlTiN or TiAlN Coated

- Unequal flute spacing
- 38° Helix
- Center cutting
- Coated for longer tool life



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Chamfer (in.)	Shank Type	Coating	Order No.	Price
1/8	1/8	1/4	1-1/2	None	-	Round	AlTiN	**WK405576591**	Price
1/8	1/8	1/4	1-1/2	None	.010	Round	AlTiN	**WK405576590**	Price
1/8	1/8	1/2	2	None	-	Round	AlTiN	**WK405576346**	Price
1/8	1/8	1/2	2	None	.010	Round	AlTiN	**WK405576345**	Price
1/8	1/8	1/2	2	.015	-	Round	AlTiN	**WK405576530**	Price
3/16	3/16	5/16	1-1/2	None	-	Round	AlTiN	**WK405576593**	Price
3/16	3/16	5/16	1-1/2	None	.010	Round	AlTiN	**WK405576592**	Price
3/16	3/16	5/8	2-1/4	None	-	Round	AlTiN	**WK405576348**	Price
3/16	3/16	5/8	2-1/4	None	.010	Round	AlTiN	**WK405576347**	Price
3/16	3/16	5/8	2-1/4	.015	-	Round	AlTiN	**WK405576531**	Price
3/16	3/16	5/8	2-1/4	.030	-	Round	AlTiN	**WK405576532**	Price
1/4	1/4	3/8	2	None	-	Round	AlTiN	**WK405576596**	Price
1/4	1/4	3/8	2	None	.016	Round	AlTiN	**WK405576595**	Price
1/4	1/4	3/8	2	.030	-	Round	AlTiN	**WK405576610**	Price
1/4	1/4	3/4	2-1/2	None	-	Round	AlTiN	**WK405576510**	Price
1/4	1/4	3/4	2-1/2	None	.016	Round	AlTiN	**WK405576349**	Price
1/4	1/4	3/4	2-1/2	.015	-	Round	AlTiN	**WK405576533**	Price
1/4	1/4	3/4	2-1/2	.030	-	Round	AlTiN	**WK405576534**	Price
1/4	1/4	3/4	2-1/2	.060	-	Round	AlTiN	**WK405576535**	Price
1/4	1/4	1-1/4	3-1/4	None	-	Round	AlTiN	**WK405576566**	Price
1/4	1/4	1-1/4	3-1/4	.015	-	Round	AlTiN	**WK405576577**	Price
1/4	1/4	1-1/4	3-1/4	.030	-	Round	AlTiN	**WK405576579**	Price
1/4	1/4	1-3/4	4	None	-	Round	TiAlN	**WK402837447**	Price
5/16	5/16	1/2	2	None	-	Round	AlTiN	**WK405576598**	Price
5/16	5/16	1/2	2	None	.016	Round	AlTiN	**WK405576597**	Price
5/16	5/16	1/2	2	.030	-	Round	AlTiN	**WK405576611**	Price
5/16	5/16	3/4	2-1/2	None	-	Round	AlTiN	**WK405576512**	Price
5/16	5/16	3/4	2-1/2	None	.016	Round	AlTiN	**WK405576511**	Price
5/16	5/16	3/4	2-1/2	.015	-	Round	AlTiN	**WK405576536**	Price
5/16	5/16	3/4	2-1/2	.030	-	Round	AlTiN	**WK405576537**	Price
5/16	5/16	1-1/4	3-1/4	None	-	Round	AlTiN	**WK405576567**	Price
5/16	5/16	1-1/4	3-1/4	.030	-	Round	AlTiN	**WK405576580**	Price
5/16	5/16	1-5/8	4	None	-	Round	TiAlN	**WK402837441**	Price
3/8	3/8	1/2	2	None	-	Round	AlTiN	**WK405576600**	Price
3/8	3/8	1/2	2	None	.020	Round	AlTiN	**WK405576599**	Price
3/8	3/8	1/2	2	.030	-	Round	AlTiN	**WK405576612**	Price
3/8	3/8	7/8	2-1/2	None	-	Round	AlTiN	**WK405576514**	Price
3/8	3/8	7/8	2-1/2	None	.020	Round	AlTiN	**WK405576513**	Price
3/8	3/8	7/8	2-1/2	.015	-	Round	AlTiN	**WK405576539**	Price
3/8	3/8	7/8	2-1/2	.030	-	Round	AlTiN	**WK405576540**	Price
3/8	3/8	7/8	2-1/2	.060	-	Round	AlTiN	**WK405576542**	Price
3/8	3/8	7/8	2-1/2	.090	-	Round	AlTiN	**WK405576543**	Price
3/8	3/8	1-1/2	4	None	-	Round	AlTiN	**WK405576568**	Price
3/8	3/8	1-1/2	4	.030	-	Round	AlTiN	**WK405576581**	Price
3/8	3/8	1-1/2	4	.060	-	Weldon	AlTiN	**WK405576582**	Price
7/16	7/16	7/8	2-1/2	None	-	Round	AlTiN	**WK405576516**	Price
7/16	7/16	2	4	None	-	Round	AlTiN	**WK405576569**	Price
1/2	1/2	5/8	2-1/2	None	-	Weldon	AlTiN	**WK405576605**	Price
1/2	1/2	5/8	2-1/2	None	.020	Weldon	AlTiN	**WK405576604**	Price
1/2	1/2	5/8	2-1/2	.030	-	Weldon	AlTiN	**WK405576613**	Price
1/2	1/2	5/8	2-1/2	.060	-	Weldon	AlTiN	**WK405576614**	Price
1/2	1/2	1	3	None	-	Weldon	AlTiN	**WK405576518**	Price
1/2	1/2	1	3	None	.020	Weldon	AlTiN	**WK405576517**	Price
1/2	1/2	1-1/4	3	None	-	Weldon	AlTiN	**WK405576520**	Price
1/2	1/2	1-1/4	3	None	.020	Weldon	AlTiN	**WK405576519**	Price
1/2	1/2	1-1/4	3	.015	-	Weldon	AlTiN	**WK405576544**	Price
1/2	1/2	1-1/4	3	.030	-	Weldon	AlTiN	**WK405576545**	Price
1/2	1/2	1-1/4	3	.060	-	Weldon	AlTiN	**WK405576546**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Chamfer (in.)	Shank Type	Coating	Order No.	Price
1/2	1/2	1-1/4	3	.090	-	Weldon	AlTiN	**WK405576547**	Price
1/2	1/2	1-1/4	3	.120	-	Weldon	AlTiN	**WK405576548**	Price
1/2	1/2	1-1/2	4	None	-	Weldon	AlTiN	**WK405576622**	Price
1/2	1/2	1-1/2	4	None	.020	Weldon	AlTiN	**WK405576621**	Price
1/2	1/2	1-1/2	4	.030	-	Weldon	AlTiN	**WK405576636**	Price
1/2	1/2	1-1/2	4	.060	-	Weldon	AlTiN	**WK405576637**	Price
1/2	1/2	2	4	None	-	Weldon	AlTiN	**WK405576570**	Price
1/2	1/2	2	4	.030	-	Weldon	AlTiN	**WK405576583**	Price
1/2	1/2	2	4	.060	-	Weldon	AlTiN	**WK405576584**	Price
1/2	1/2	2-1/4	4-1/2	None	-	Weldon	AlTiN	**WK405576623**	Price
1/2	1/2	3	5	None	-	Round	TiAlN	**WK402837414**	Price
1/2	1/2	3	5	.030	-	Round	TiAlN	**WK403704326**	Price
5/8	5/8	3/4	3	None	-	Weldon	AlTiN	**WK405576607**	Price
5/8	5/8	3/4	3	None	.020	Weldon	AlTiN	**WK405576606**	Price
5/8	5/8	1-1/4	3-1/2	None	-	Weldon	AlTiN	**WK405576528**	Price
5/8	5/8	1-1/4	3-1/2	None	.020	Weldon	AlTiN	**WK405576521**	Price
5/8	5/8	1-1/4	3-1/2	.030	-	Weldon	AlTiN	**WK405576549**	Price
5/8	5/8	1-1/4	3-1/2	.120	-	Weldon	AlTiN	**WK405576552**	Price
5/8	5/8	1-5/8	4-1/8	None	-	Weldon	AlTiN	**WK405576625**	Price
5/8	5/8	1-5/8	4-1/8	None	.020	Weldon	AlTiN	**WK405576624**	Price
5/8	5/8	2-1/4	5	None	-	Weldon	AlTiN	**WK405576572**	Price
5/8	5/8	2-1/4	5	None	.020	Weldon	AlTiN	**WK405576571**	Price
5/8	5/8	2-1/4	5	.060	-	Weldon	AlTiN	**WK405576585**	Price
5/8	5/8	3	5-1/4	None	-	Round	TiAlN	**WK402837408**	Price
3/4	3/4	7/8	3-1/2	None	-	Weldon	AlTiN	**WK405576609**	Price
3/4	3/4	7/8	3-1/2	None	.020	Weldon	AlTiN	**WK405576608**	Price
3/4	3/4	7/8	3-1/2	.030	-	Weldon	AlTiN	**WK405576618**	Price
3/4	3/4	7/8	3-1/2	.060	-	Weldon	AlTiN	**WK405576619**	Price
3/4	3/4	7/8	3-1/2	.120	-	Weldon	AlTiN	**WK405576620**	Price
3/4	3/4	1-1/2	4	None	-	Weldon	AlTiN	**WK405576529**	Price
3/4	3/4	1-1/2	4	None	.020	Weldon	AlTiN	**WK405576522**	Price
3/4	3/4	1-1/2	4	.030	-	Weldon	AlTiN	**WK405576553**	Price
3/4	3/4	1-1/2	4	.060	-	Weldon	AlTiN	**WK405576554**	Price
3/4	3/4	1-1/2	4	.120	-	Weldon	AlTiN	**WK405576557**	Price
3/4	3/4	1-5/8	4	None	-	Weldon	AlTiN	**WK405576631**	Price
3/4	3/4	1-5/8	4	None	.020	Weldon	AlTiN	**WK405576630**	Price
3/4	3/4	2-1/4	5	None	-	Weldon	AlTiN	**WK405576574**	Price
3/4	3/4	2-1/4	5	None	.020	Weldon	AlTiN	**WK405576573**	Price
3/4	3/4	2-1/4	5	.030	-	Weldon	AlTiN	**WK405576586**	Price
3/4	3/4	2-1/4	5	.060	-	Weldon	AlTiN	**WK405576587**	Price
3/4	3/4	3	6	None	-	Weldon	AlTiN	**WK405576627**	Price
3/4	3/4	3	6	None	.020	Weldon	AlTiN	**WK405576626**	Price
3/4	3/4	3	6	.030	-	Weldon	AlTiN	**WK405576651**	Price
3/4	3/4	4	6-1/4	None	-	Round	TiAlN	**WK402837395**	Price
1	1	1-1/2	4	None	-	Weldon	AlTiN	**WK405576525**	Price
1	1	1-1/2	4	None	.020	Weldon	AlTiN	**WK405576523**	Price
1	1	1-1/2	4	.030	-	Weldon	AlTiN	**WK405576558**	Price
1	1	1-1/2	4	.060	-	Weldon	AlTiN	**WK405576560**	Price
1	1	2-1/4	5	None	-	Weldon	AlTiN	**WK405576576**	Price
1	1	2-1/4	5	None	.020	Weldon	AlTiN	**WK405576575**	Price
1	1	2-1/4	5	.030	-	Weldon	AlTiN	**WK405576588**	Price
1	1	2-1/4	5	.060	-	Weldon	AlTiN	**WK405576589**	Price
1	1	3	6	None	-	Round	TiAlN	**WK402837384**	Price
1	1	3	6	None	.020	Round	TiAlN	**WK402837388**	Price
1	1	4	7	None	-	Weldon	AlTiN	**WK405576635**	Price
1	1	4	7	None	.020	Weldon	AlTiN	**WK405576634**	Price
1	1	4	7	.030	-	Weldon	AlTiN	**WK405576653**	Price
1	1	4	7	.060	-	Weldon	AlTiN	**WK405576654**	Price

WIDIA Solid Carbide HP Varimill I™ Extended Reach End Mills

Necked Style • 4 Flute • TiAlN Coated

- Unequal flute spacing
- 38° Helix
- Center cutting
- TiAlN coated for longer tool life



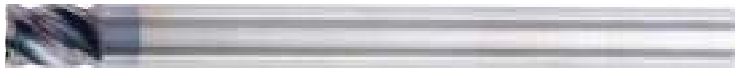
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Neck Dia. (in.)	Shank Type	Order No.	Price
1/4	1/4	3/8	4	None	.235	Round	**WK402837188**	Price
1/4	1/4	3/8	4	.015	.235	Round	**WK403738940**	Price
3/8	3/8	1/2	4	None	.353	Round	**WK402837182**	Price
3/8	3/8	1/2	4	.030	.353	Round	**WK403738973**	Price
1/2	1/2	5/8	4	None	.470	Weldon	**WK402837178**	Price
1/2	1/2	5/8	4	.030	.470	Weldon	**WK403738975**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Neck Dia. (in.)	Shank Type	Order No.	Price
1/2	1/2	5/8	4	.120	.470	Weldon	**WK403738977**	Price
5/8	5/8	3/4	4-1/8	None	.588	Weldon	**WK402837171**	Price
5/8	5/8	3/4	5	None	.588	Weldon	**WK402837160**	Price
3/4	3/4	1	4-1/4	None	.705	Weldon	**WK402837154**	Price
3/4	3/4	1	5-1/4	None	.705	Weldon	**WK402837146**	Price
1	1	1-1/8	6-1/2	None	.940	Weldon	**WK402837110**	Price

WIDIA Solid Carbide HP Varimill I™ Extended Reach End Mills

4 Flute • TiAlN Coated

- Unequal flute spacing
- Center cutting
- Cylindrical shanks
- TiAlN coated for longer tool life



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Chamfer	Order No.	Price
3/8	3/8	1/2	4	None	**WK402837032**	Price
1/2	1/2	5/8	5	.020	**WK402837025**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Chamfer	Order No.	Price
1/2	1/2	5/8	6	.020	**WK402837007**	Price
3/4	3/4	1	7	.020	**WK402836916**	Price

4 Flute TuffCut® XR HP ALtima® Coated End Mill

Center Cutting • Variable Helix • Fractional Sizes

- Recommended for slotting and general purpose milling
- Very high feed rates & excellent surface finish
- Unique flute geometry allows for increased feeds and speeds while reducing harmonics
- Coated with ALtima® (AlTiN) for extended tool life
- M A Ford Series #177



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price
1/16	1/8	1/8	1-1/2	None	**DD1517692**	Price
3/32	1/8	3/16	1-1/2	None	**DD1517696**	Price
1/8	1/8	1/8	1-1/2	None	**DD1517700**	Price
1/8	1/8	1/8	1-1/2	.015	**DD1517729**	Price
1/8	1/8	3/8	1-1/2	None	**DD1617701**	Price
1/8	1/8	3/8	1-1/2	.015	**DD1517730**	Price
5/32	3/16	3/16	2	None	**DD1517702**	Price
5/32	3/16	3/16	2	.015	**DD1617731**	Price
5/32	3/16	7/16	2	.015	**DD1517732**	Price
5/32	3/16	7/16	2	None	**DD1517703**	Price
7/32	1/4	1/4	2	.015	**DD1517737**	Price
7/32	1/4	1/4	2	.030	**DD1617738**	Price
7/32	1/4	7/16	2-1/2	None	**DD1517707**	Price
7/32	1/4	7/16	2-1/2	.015	**DD1617739**	Price
7/32	1/4	7/16	2-1/2	.030	**DD1617740**	Price
3/16	3/16	3/16	2	None	**DD1517704**	Price
3/16	3/16	3/16	2	.015	**DD1517733**	Price
3/16	3/16	3/16	2	.030	**DD1517734**	Price
3/16	3/16	7/16	2	None	**DD1617705**	Price
3/16	3/16	7/16	2	.015	**DD1517735**	Price
3/16	3/16	7/16	2	.030	**DD1517736**	Price
1/4	1/4	1/4	2	None	**DD1517708**	Price
1/4	1/4	1/4	2	.015	**DD1517741**	Price
1/4	1/4	1/4	2	.030	**DD1617742**	Price

Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price
1/4	1/4	1/2	2-1/2	None	**DD1617709**	Price
1/4	1/4	1/2	2-1/2	.015	**DD1517743**	Price
1/4	1/4	1/2	2-1/2	.030	**DD1517744**	Price
9/32	5/16	5/8	2-1/2	None	**DD1517710**	Price
9/32	5/16	5/8	2-1/2	.015	**DD1517745**	Price
9/32	5/16	5/8	2-1/2	.030	**DD1617746**	Price
5/16	5/16	5/16	2	None	**DD1517711**	Price
5/16	5/16	5/16	2	.015	**DD1517747**	Price
5/16	5/16	5/16	2	.030	**DD1517748**	Price
5/16	5/16	13/16	2-1/2	None	**DD1617712**	Price
5/16	5/16	13/16	2-1/2	.015	**DD1517749**	Price
5/16	5/16	13/16	2-1/2	.030	**DD1517750**	Price
11/32	3/8	13/16	2-1/2	None	**DD1517713**	Price
11/32	3/8	13/16	2-1/2	.015	**DD1617751**	Price
11/32	3/8	13/16	2-1/2	.030	**DD1617752**	Price
3/8	3/8	3/8	2	None	**DD1517714**	Price
3/8	3/8	3/8	2	.015	**DD1517753**	Price
3/8	3/8	3/8	2	.030	**DD1517754**	Price
3/8	3/8	7/8	2-1/2	None	**DD1617715**	Price
3/8	3/8	7/8	2-1/2	.015	**DD1517755**	Price
3/8	3/8	7/8	2-1/2	.030	**DD1517756**	Price
13/32	7/16	15/16	2-3/4	None	**DD1617716**	Price
13/32	7/16	15/16	2-3/4	.015	**DD1617757**	Price
13/32	7/16	15/16	2-3/4	.030	**DD1617758**	Price

(continued on next page)

4 Flute TuffCut® XR HP ALtima® Coated End Mill (cont.)



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price
7/16	7/16	7/16	2-1/2	None	**DD1517717**	Price
7/16	7/16	7/16	2-1/2	.015	**DD1617759**	Price
7/16	7/16	7/16	2-1/2	.030	**DD1617760**	Price
7/16	7/16	1	2-3/4	None	**DD1517718**	Price
7/16	7/16	1	2-3/4	.015	**DD1517761**	Price
7/16	7/16	1	2-3/4	.030	**DD1517762**	Price
15/32	1/2	1	3	None	**DD1617719**	Price
15/32	1/2	1	3	.030	**DD1617764**	Price
15/32	1/2	1	3	.015	**DD1617763**	Price
1/2	1/2	1/2	2-1/2	None	**DD1517720**	Price
1/2	1/2	1/2	2-1/2	.015	**DD1517765**	Price
1/2	1/2	1/2	2-1/2	.030	**DD1517766**	Price
1/2	1/2	1	3	None	**DD1617721**	Price
1/2	1/2	1	3	.015	**DD1517767**	Price
1/2	1/2	1	3	.030	**DD1517768**	Price
1/2	1/2	1	3	.090	**DD1617902**	Price
1/2	1/2	1	3	.125	**DD1617903**	Price
1/2	1/2	1-1/4	3	None	**DD1518094**	Price
1/2	1/2	1-1/4	3	.015	**DD1618095**	Price
1/2	1/2	1-1/4	3	.030	**DD1518096**	Price
1/2	1/2	1-1/4	3	.060	**DD1518097**	Price
1/2	1/2	1-1/4	3	.090	**DD1618098**	Price
1/2	1/2	1-1/4	3	.125	**DD1618099**	Price
9/16	9/16	1-1/8	3-1/2	None	**DD1617722**	Price
9/16	9/16	1-1/8	3-1/2	.015	**DD1617769**	Price
9/16	9/16	1-1/8	3-1/2	.030	**DD1617770**	Price
1/2	1/2	1	3	.060	**DD1517901**	Price
5/8	5/8	5/8	3	None	**DD1517723**	Price
5/8	5/8	5/8	3	.015	**DD1618000**	Price
5/8	5/8	5/8	3	.030	**DD1517771**	Price

Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price
5/8	5/8	5/8	3	.045	**DD1617772**	Price
5/8	5/8	1-1/4	3-1/2	None	**DD1617724**	Price
5/8	5/8	1-1/4	3-1/2	.015	**DD1518001**	Price
5/8	5/8	1-1/4	3-1/2	.030	**DD1517773**	Price
5/8	5/8	1-1/4	3-1/2	.045	**DD1517774**	Price
5/8	5/8	1-1/4	3-1/2	.060	**DD1617904**	Price
5/8	5/8	1-1/4	3-1/2	.090	**DD1617905**	Price
5/8	5/8	1-1/4	3-1/2	.125	**DD1617906**	Price
3/4	3/4	3/4	3	None	**DD1517725**	Price
3/4	3/4	3/4	3	.015	**DD1618002**	Price
3/4	3/4	3/4	3	.030	**DD1617775**	Price
3/4	3/4	3/4	3	.045	**DD1617776**	Price
3/4	3/4	1-1/2	4	None	**DD1617726**	Price
3/4	3/4	1-1/2	4	.015	**DD1518003**	Price
3/4	3/4	1-1/2	4	.030	**DD1517777**	Price
3/4	3/4	1-1/2	4	.045	**DD1617778**	Price
3/4	3/4	1-1/2	4	.060	**DD1517907**	Price
3/4	3/4	1-1/2	4	.090	**DD1617908**	Price
3/4	3/4	1-1/2	4	.125	**DD1517909**	Price
1	1	1	4	None	**DD1517727**	Price
1	1	1	4	.015	**DD1618004**	Price
1	1	1	4	.030	**DD1617779**	Price
1	1	1	4	.045	**DD1617780**	Price
1	1	1-1/2	4	None	**DD1617728**	Price
1	1	1-1/2	4	.015	**DD1518005**	Price
1	1	1-1/2	4	.030	**DD1517781**	Price
1	1	1-1/2	4	.045	**DD1517782**	Price
1	1	1-1/2	4	.060	**DD1617910**	Price
1	1	1-1/2	4	.090	**DD1617911**	Price
1	1	1-1/2	4	.125	**DD1617912**	Price

POW•R•FEED® M924N Solid Carbide 4 Flute Variable Index (1xD Flute Length) End Mills with Neck Relief

MADE IN THE USA

- Go deeper per pass in cavities with special flute length and no loss of tool rigidity
- Neck relieved for machining in cavities and against tight walls
- Unique vibration dampening geometry for chatter-free machining
- New advanced coating and tool design improves tool life exponentially
- Round shank 1xD
- 38° Helix, AlCrNX, corner radius



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Neck Length	Radius	Order No.	Price
1/8	1/8	1/4	2-1/2	3/8	.015	**DD4167562**	Price
1/8	1/8	1/4	2-1/2	1-1/8	.015	**DD4167731**	Price
3/16	3/16	3/8	3	1/2	.015	**DD4167564**	Price
3/16	3/16	3/8	3	1-3/8	.015	**DD4167733**	Price
1/4	1/4	1/2	3	1-3/8	.015	**DD4167740**	Price
1/4	1/4	1/2	4	2-3/8	.015	**DD4167744**	Price
3/8	3/8	3/4	4	2-3/8	.015	**DD4168324**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Neck Length	Radius	Order No.	Price
3/8	3/8	3/4	4	2-3/8	.030	**DD4168325**	Price
3/8	3/8	3/4	6	4-3/8	.015	**DD4168330**	Price
3/8	3/8	3/4	6	4-3/8	.030	**DD4168331**	Price
1/2	1/2	1	4	2-1/4	.030	**DD4167858**	Price
1/2	1/2	1	6	4-1/4	.030	**DD4167864**	Price
3/4	3/4	1-1/2	6	3-7/8	.030	**DD4167879**	Price

4 Flute High Performance Carbide End Mills

Variable Helix • Unequal Index • Corner Radius

- Reduces vibration and chatter
- AlTiN coated
- Maximum material removal and feed rates
- Excellent finish in high speed machining
- Center cutting
- Diameter tolerance +.000 / -.002”



Size (in.)	Shank Dia. (in.)	LOC (in.)	OAL (in.)	Radius	Order No.	Price
1/8	1/8	1/4	1-1/2	.015	**DC25294001011**	Price
1/8	1/8	1/2	1-1/2	.015	**DC25294002011**	Price
3/16	3/16	3/8	2	.015	**DC25294001021**	Price
3/16	3/16	5/8	2	.015	**DC25294002021**	Price
1/4	1/4	1/2	2	.020	**DC25294001031**	Price
1/4	1/4	3/4	2-1/2	.020	**DC25294002031**	Price
1/4	1/4	1-1/8	4	.020	**DC25294003031**	Price
5/16	5/16	5/8	2	.030	**DC25294001041**	Price
5/16	5/16	3/4	2-1/2	.030	**DC25294002041**	Price
3/8	3/8	5/8	2	.030	**DC25294001051**	Price
3/8	3/8	1	2-1/2	.030	**DC25294002051**	Price
3/8	3/8	1-1/2	4	.030	**DC25294003051**	Price
7/16	7/16	1	2-3/4	.030	**DC25294002056**	Price
1/2	1/2	5/8	2-1/2	.030	**DC25294001061**	Price
1/2	1/2	1-1/4	3	.030	**DC25294002061**	Price
1/2	1/2	2	4	.030	**DC25294003061**	Price
5/8	5/8	3/4	3	.040	**DC25294001071**	Price
5/8	5/8	1-1/4	3-1/2	.040	**DC25294002071**	Price
5/8	5/8	2-1/4	5	.040	**DC25294003071**	Price
3/4	3/4	1	3	.050	**DC25294001081**	Price
3/4	3/4	1-1/2	4	.050	**DC25294002081**	Price
3/4	3/4	2-1/4	5	.050	**DC25294003081**	Price
1	1	1-1/2	4	.060	**DC25294002091**	Price
1	1	2-1/4	5	.060	**DC25294003091**	Price

HY-PRO® CARB VGx High Performance End Mills

4 Flute • Variable Geometry

- TiAlN coated
- 35° Helix
- OSG List #VG436



Size (in.)	Shank Dia. (in.)	LOC (in.)	OAL (in.)	Corner Chamfer	Shank Type	Order No.	Price
1/8	1/8	1/8	1-1/2	.010	Round	**TP45VG4361252**	Price
1/8	1/8	1/4	1-1/2	.010	Round	**TP45VG4361250**	Price
1/8	1/8	1/2	1-1/2	.010	Round	**TP45VG4361251**	Price
3/16	3/16	5/16	2	.010	Round	**TP45VG4361875**	Price
3/16	3/16	5/8	2-1/4	.010	Round	**TP45VG4361876**	Price
1/4	1/4	3/8	2	.016	Round	**TP45VG4362500**	Price
1/4	1/4	3/4	2-1/2	.016	Round	**TP45VG4362501**	Price
5/16	5/16	1/2	2	.016	Round	**TP45VG4363125**	Price
5/16	5/16	3/4	2-1/2	.016	Round	**TP45VG4363126**	Price
3/8	3/8	1/2	2	.020	Weldon	**TP45VG4363750**	Price
3/8	3/8	7/8	2-1/2	.020	Weldon	**TP45VG4363751**	Price
7/16	7/16	5/8	2-1/2	.020	Weldon	**TP45VG4364375**	Price
7/16	7/16	7/8	2-3/4	.020	Weldon	**TP45VG4364376**	Price
1/2	1/2	5/8	2-1/2	.020	Weldon	**TP45VG4365000**	Price
1/2	1/2	1	3	.020	Weldon	**TP45VG4365001**	Price
1/2	1/2	1-1/4	3-1/2	.020	Weldon	**TP45VG4365002**	Price
1/2	1/2	1-1/2	4	.020	Weldon	**TP45VG4365003**	Price
5/8	5/8	3/4	3	.020	Weldon	**TP45VG4366250**	Price
5/8	5/8	1-1/4	3-1/2	.020	Weldon	**TP45VG4366251**	Price
5/8	5/8	1-5/8	4-1/8	.020	Weldon	**TP45VG4366252**	Price
3/4	3/4	7/8	3-1/2	.020	Weldon	**TP45VG4367500**	Price
3/4	3/4	1-1/2	4	.020	Weldon	**TP45VG4367501**	Price
3/4	3/4	1-5/8	4	.020	Weldon	**TP45VG4367502**	Price
1	1	1-1/2	4	.020	Weldon	**TP45VG4361000**	Price
1	1	2	5	.020	Weldon	**TP45VG4361001**	Price

EXOPRO® UVX-Ni Solid Carbide End Mills For Nickel Alloys

5 Flute • Variable Helix

- Specifically designed for nickel alloys like Inconel 718
- OSG List #2055



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price
1/4	1/4	5/8	2-1/2	.015	**TP5220552501**	Price
1/4	1/4	5/8	2-1/2	.030	**TP5220552502**	Price
1/4	1/4	5/8	2-1/2	.060	**TP5220552503**	Price
5/16	5/16	3/4	2-1/2	.015	**TP5220553121**	Price
5/16	5/16	3/4	2-1/2	.030	**TP5220553122**	Price
5/16	5/16	3/4	2-1/2	.060	**TP5220553123**	Price
3/8	3/8	7/8	2-1/2	.015	**TP5220553751**	Price
3/8	3/8	7/8	2-1/2	.030	**TP5220553752**	Price
3/8	3/8	7/8	2-1/2	.060	**TP5220553753**	Price
1/2	1/2	5/8	2-1/2	.030	**TP5220555001**	Price
1/2	1/2	1	3	.030	**TP5220555002**	Price
1/2	1/2	1	3	.060	**TP5220555003**	Price
1/2	1/2	1-1/4	3-1/2	.015	**TP5220555004**	Price
1/2	1/2	1-1/4	3-1/2	.030	**TP5220555005**	Price
1/2	1/2	1-1/4	3-1/2	.060	**TP5220555006**	Price
1/2	1/2	1-1/4	3-1/2	.090	**TP5220555007**	Price
1/2	1/2	1-1/4	3-1/2	.120	**TP5220555008**	Price
5/8	5/8	1-1/4	3-1/2	.030	**TP5220556251**	Price
5/8	5/8	1-1/4	3-1/2	.060	**TP5220556252**	Price
5/8	5/8	1-1/4	3-1/2	.090	**TP5220556253**	Price
5/8	5/8	1-1/4	3-1/2	.120	**TP5220556254**	Price
3/4	3/4	1-1/2	4	.030	**TP5220557501**	Price
3/4	3/4	1-1/2	4	.060	**TP5220557502**	Price
3/4	3/4	1-1/2	4	.090	**TP5220557503**	Price
3/4	3/4	1-1/2	4	.120	**TP5220557504**	Price
1	1	1-1/2	4	.030	**TP5220551001**	Price
1	1	1-1/2	4	.060	**TP5220551002**	Price
1	1	1-1/2	4	.090	**TP5220551003**	Price
1	1	1-1/2	4	.120	**TP5220551004**	Price

HY-PRO® CARB VGx® Variable Geometry Corner Radius End Mills

- High performance carbide
- Center cutting
- TiALN coating
- 4 Flute
- Recommended for cast iron, carbon steels, alloy steels, die steels, stainless steels, hardened steels up to 45 HrC and high heat alloys
- OSG List #VG434



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Corner Radius	Shank Type	Order No.	Price
1/8	1/8	3/8	1-1/2	.010	Round Shank	**TP45VG4341250**	Price
1/8	1/8	3/8	1-1/2	.015	Round Shank	**TP45VG4341251**	Price
3/16	3/16	7/16	2	.015	Round Shank	**TP45VG4341875**	Price
3/16	3/16	7/16	2	.030	Round Shank	**TP45VG4341876**	Price
1/4	1/4	7/16	2-1/2	.015	Round Shank	**TP45VG4342500**	Price
1/4	1/4	3/4	2-1/2	.015	Round Shank	**TP45VG4342502**	Price
1/4	1/4	7/16	2-1/2	.030	Round Shank	**TP45VG4342501**	Price
1/4	1/4	3/4	2-1/2	.030	Round Shank	**TP45VG4342503**	Price
1/4	3/4	3/4	2-1/2	.060	Round Shank	**TP45VG4342504**	Price
5/16	5/16	13/16	2-1/2	.015	Round Shank	**TP45VG4343125**	Price
5/16	5/16	13/16	2-1/2	.030	Round Shank	**TP45VG4343126**	Price
3/8	7/8	7/8	2-1/2	.015	Round Shank	**TP45VG4343759**	Price
3/8	7/8	7/8	2-1/2	.015	Weldon Shank	**TP45VG4343758**	Price
3/8	3/8	1/2	2-1/2	.030	Round Shank	**TP45VG4343750**	Price
3/8	3/8	1/2	2-1/2	.030	Weldon Shank	**TP45VG4343754**	Price
3/8	3/8	7/8	2-1/2	.030	Round Shank	**TP45VG4343751**	Price
3/8	3/8	7/8	2-1/2	.030	Weldon Shank	**TP45VG4343755**	Price
3/8	3/8	7/8	2-1/2	.045	Round Shank	**TP45VG4343752**	Price
3/8	3/8	7/8	2-1/2	.045	Weldon Shank	**TP45VG4343756**	Price
3/8	3/8	7/8	2-1/2	.060	Round Shank	**TP45VG4343753**	Price
3/8	3/8	7/8	2-1/2	.060	Weldon Shank	**TP45VG4343757**	Price
7/16	7/16	1	2-3/4	.015	Round Shank	**TP45VG4344375**	Price
7/16	7/16	1	2-3/4	.030	Round Shank	**TP45VG4344376**	Price
7/16	7/16	1	2-3/4	.030	Weldon Shank	**TP45VG4344378**	Price
1/2	5/8	5/8	2-1/2	.015	Round Shank	**TP45VG4345021**	Price
1/2	5/8	5/8	2-1/2	.015	Weldon Shank	**TP45VG4345020**	Price
1/2	1/2	1-1/4	3-1/2	.015	Round Shank	**TP45VG4345012**	Price
1/2	1/2	1-1/4	3-1/2	.015	Weldon Shank	**TP45VG4345003**	Price
1/2	1-1/2	1-1/2	4	.020	Round Shank	**TP45VG4345019**	Price
1/2	1-1/2	1-1/2	4	.020	Weldon Shank	**TP45VG4345018**	Price
1/2	1/2	5/8	2-1/2	.030	Round Shank	**TP45VG4345009**	Price
1/2	1/2	5/8	2-1/2	.030	Weldon Shank	**TP45VG4345000**	Price
1/2	1/2	1	3	.030	Round Shank	**TP45VG4345010**	Price
1/2	1/2	1	3	.030	Weldon Shank	**TP45VG4345001**	Price
1/2	1/2	1-1/4	3-1/2	.030	Round Shank	**TP45VG4345013**	Price
1/2	1/2	1-1/4	3-1/2	.030	Weldon Shank	**TP45VG4345004**	Price
1/2	1/2	1-1/4	3-1/2	.045	Round Shank	**TP45VG4345014**	Price
1/2	1/2	1-1/4	3-1/2	.045	Weldon Shank	**TP45VG4345005**	Price
1/2	1/2	1	3	.060	Round Shank	**TP45VG4345011**	Price
1/2	1/2	1	3	.060	Weldon Shank	**TP45VG4345002**	Price
1/2	1/2	1-1/4	3-1/2	.060	Round Shank	**TP45VG4345015**	Price
1/2	1/2	1-1/4	3-1/2	.060	Weldon Shank	**TP45VG4345006**	Price
1/2	1/2	1-1/4	3-1/2	.090	Weldon Shank	**TP45VG4345007**	Price
1/2	1/2	1-1/4	3-1/2	.090	Round Shank	**TP45VG4345016**	Price
1/2	1/2	1-1/4	3-1/2	.125	Round Shank	**TP45VG4345017**	Price
1/2	1/2	1-1/4	3-1/2	.125	Weldon Shank	**TP45VG4345008**	Price
5/8	5/8	1-1/4	3-1/2	.030	Round Shank	**TP45VG4346254**	Price
5/8	5/8	1-1/4	3-1/2	.030	Weldon Shank	**TP45VG4346250**	Price
5/8	5/8	1-1/4	3-1/2	.060	Round Shank	**TP45VG4346255**	Price
5/8	5/8	1-1/4	3-1/2	.060	Weldon Shank	**TP45VG4346251**	Price
5/8	5/8	1-1/4	3-1/2	.090	Round Shank	**TP45VG4346256**	Price
5/8	5/8	1-1/4	3-1/2	.125	Round Shank	**TP45VG4346257**	Price
3/4	1-5/8	1-5/8	4	.020	Round Shank	**TP45VG4347510**	Price
3/4	1-5/8	1-5/8	4	.020	Weldon Shank	**TP45VG4347508**	Price
3/4	3/4	1-1/2	4	.030	Round Shank	**TP45VG4347504**	Price
3/4	3/4	1-1/2	4	.030	Weldon Shank	**TP45VG4347500**	Price
3/4	3/4	1-1/2	4	.060	Round Shank	**TP45VG4347505**	Price
3/4	3/4	1-1/2	4	.060	Weldon Shank	**TP45VG4347501**	Price
3/4	2-1/4	2-1/4	5	.060	Round Shank	**TP45VG4347511**	Price
3/4	2-1/4	2-1/4	5	.060	Weldon Shank	**TP45VG4347509**	Price
3/4	3/4	1-1/2	4	.090	Round Shank	**TP45VG4347506**	Price
3/4	3/4	1-1/2	4	.090	Weldon Shank	**TP45VG4347502**	Price
3/4	3/4	1-1/2	4	.125	Round Shank	**TP45VG4347507**	Price
3/4	3/4	1-1/2	4	.125	Weldon Shank	**TP45VG4347503**	Price
1	1	1-1/2	4	.030	Round Shank	**TP45VG4341004**	Price
1	1	1-1/2	4	.030	Weldon Shank	**TP45VG4341000**	Price
1	1	1-1/2	4	.060	Round Shank	**TP45VG4341005**	Price
1	1	1-1/2	4	.090	Round Shank	**TP45VG4341006**	Price
1	1	1-1/2	4	.125	Round Shank	**TP45VG4341007**	Price

HY-PRO® CARB VGx® Variable Geometry End Mills

- High performance carbide
- Center cutting
- TiALN coating
- Square end
- 4 Flute
- Recommended for cast iron, carbon steels, alloy steels, die steels, stainless steels, hardened steels up to 45 HrC and high heat alloys
- OSG List #VG441



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Shank Type	Order No.	Price
1/8	1/8	3/8	1-1/2	Round Shank	**TP45VG4411250**	Price
3/16	3/16	7/16	2	Round Shank	**TP45VG4411875**	Price
1/4	1/4	7/16	2-1/2	Round Shank	**TP45VG4412500**	Price
1/4	1/4	3/4	2-1/2	Round Shank	**TP45VG4412501**	Price
1/4	1/4	1-1/4	3-1/4	Round Shank	**TP45VG4412502**	Price
5/16	5/16	13/16	2-1/2	Round Shank	**TP45VG4413125**	Price
5/16	5/16	1-5/8	4	Round Shank	**TP45VG4413127**	Price
5/16	5/16	1-1/4	3-1/4	Round Shank	**TP45VG4413126**	Price
3/8	3/8	1/2	2-1/2	Round Shank	**TP45VG4413750**	Price
3/8	3/8	1/2	2-1/2	Weldon Shank	**TP45VG4413752**	Price
3/8	3/8	7/8	2-1/2	Round Shank	**TP45VG4413751**	Price
3/8	3/8	7/8	2-1/2	Weldon Shank	**TP45VG4413753**	Price
3/8	3/8	1-1/2	4	Round Shank	**TP45VG4413754**	Price
3/8	3/8	1-1/2	4	Weldon Shank	**TP45VG4413755**	Price
3/8	3/8	2-1/2	4	Round Shank	**TP45VG4413756**	Price
3/8	3/8	2-1/2	4	Weldon Shank	**TP45VG4413757**	Price
7/16	7/16	1	2-3/4	Weldon Shank	**TP45VG4414376**	Price
1/2	1/2	5/8	2-1/2	Round Shank	**TP45VG4415007**	Price
1/2	1/2	1	3	Round Shank	**TP45VG4415008**	Price
1/2	1/2	5/8	2-1/2	Weldon Shank	**TP45VG4415000**	Price
1/2	1/2	1	3	Weldon Shank	**TP45VG4415001**	Price
1/2	1/2	1-1/4	3-1/2	Round Shank	**TP45VG4415009**	Price
1/2	1/2	1-1/4	3-1/2	Weldon Shank	**TP45VG4415002**	Price
1/2	1/2	1-1/2	4	Round Shank	**TP45VG4415010**	Price
1/2	1/2	1-1/2	4	Weldon Shank	**TP45VG4415003**	Price
1/2	1/2	2	4	Round Shank	**TP45VG4415011**	Price
1/2	1/2	2	4	Weldon Shank	**TP45VG4415004**	Price
1/2	1/2	2-1/2	4	Round Shank	**TP45VG4415012**	Price
1/2	1/2	2-1/2	4	Weldon Shank	**TP45VG4415005**	Price
1/2	1/2	3	5	Round Shank	**TP45VG4415013**	Price
1/2	1/2	3	5	Weldon Shank	**TP45VG4415006**	Price
5/8	5/8	3/4	3	Round Shank	**TP45VG4416255**	Price
5/8	5/8	3/4	3	Weldon Shank	**TP45VG4416250**	Price
5/8	5/8	1-1/4	3-1/2	Round Shank	**TP45VG4416256**	Price
5/8	5/8	1-1/4	3-1/2	Weldon Shank	**TP45VG4416251**	Price
5/8	5/8	1-5/8	5	Round Shank	**TP45VG4416257**	Price
5/8	5/8	1-5/8	5	Weldon Shank	**TP45VG4416252**	Price
5/8	5/8	2-1/4	5	Round Shank	**TP45VG4416258**	Price
5/8	5/8	2-1/4	5	Weldon Shank	**TP45VG4416253**	Price
3/4	3/4	7/8	3-1/2	Round Shank	**TP45VG4417506**	Price
3/4	3/4	7/8	3-1/2	Weldon Shank	**TP45VG4417500**	Price
3/4	3/4	1-1/2	4	Round Shank	**TP45VG4417507**	Price
3/4	3/4	1-1/2	4	Weldon Shank	**TP45VG4417501**	Price
3/4	3/4	1-5/8	4	Round Shank	**TP45VG4417508**	Price
3/4	3/4	1-5/8	4	Weldon Shank	**TP45VG4417502**	Price
3/4	3/4	2-1/4	5	Round Shank	**TP45VG4417509**	Price
3/4	3/4	2-1/4	5	Weldon Shank	**TP45VG4417503**	Price
3/4	3/4	3	6	Round Shank	**TP45VG4417510**	Price
3/4	3/4	3	6	Weldon Shank	**TP45VG4417504**	Price
3/4	3/4	4	6-1/4	Round Shank	**TP45VG4417511**	Price
3/4	3/4	4	6-1/4	Weldon Shank	**TP45VG4417505**	Price
1	1	1-1/2	4	Round Shank	**TP45VG4411005**	Price
1	1	1-1/2	4	Weldon Shank	**TP45VG4411000**	Price
1	1	2	5	Round Shank	**TP45VG4411006**	Price
1	1	2	5	Weldon Shank	**TP45VG4411001**	Price
1	1	4	7	Round Shank	**TP45VG4411009**	Price
1	1	4	7	Weldon Shank	**TP45VG4411004**	Price

TuffCut® XT 4 Flute Carbide End Mills

Necked • Variable Helix • Altima® Blaze Coated

- Variable 38°/41° helix
- Center cutting
- M.A. Ford List #277N



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Neck Length (in.)	Order No.	Price
1/8	1/8	3/16	3	.015	5/8	**DD1627723**	Price
3/16	3/16	1/4	3	.015	15/16	**DD1627728**	Price
3/16	3/16	1/4	3	.030	15/16	**DD1627729**	Price
1/4	1/4	3/8	4	.015	1-1/4	**DD1627735**	Price
1/4	1/4	3/8	4	.030	1-1/4	**DD1627736**	Price
3/8	3/8	1/2	4	.015	1-7/8	**DD1627750**	Price
3/8	3/8	1/2	4	.030	1-7/8	**DD1627751**	Price
1/2	1/2	5/8	6	.015	2-1/2	**DD1627766**	Price
1/2	1/2	5/8	6	.030	2-1/2	**DD1627767**	Price
5/8	5/8	3/4	6	.030	3-1/8	**DD1627782**	Price
3/4	3/4	1	6	.030	3-3/4	**DD1627801**	Price
3/4	3/4	1	6	.250	3-3/4	**DD1627806**	Price

TuffCut® XT 4 Flute Carbide End Mills

Variable Helix • Altima® Blaze Coated

- Variable 38°/41° helix
- Center cutting
- M.A. Ford List #277



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Order No.	Price
1/8	1/8	1/8	1-1/2	None	**DD1618700**	Price
1/8	1/8	1/8	1-1/2	.015	**DD1618701**	Price
1/8	1/8	3/8	1-1/2	None	**DD1618702**	Price
1/8	1/8	3/8	1-1/2	.015	**DD1618703**	Price
1/8	1/8	1/2	1-1/2	None	**DD1618704**	Price
3/16	3/16	3/16	2	None	**DD1618710**	Price
3/16	3/16	3/16	2	.015	**DD1618711**	Price
3/16	3/16	7/16	2	None	**DD1618713**	Price
3/16	3/16	7/16	2	.015	**DD1618714**	Price
3/16	3/16	3/4	2-1/2	None	**DD1618716**	Price
1/4	1/4	3/8	2	None	**DD1618725**	Price
1/4	1/4	3/8	2	.015	**DD1618726**	Price
1/4	1/4	3/4	2-1/2	None	**DD1618728**	Price
1/4	1/4	3/4	2-1/2	.015	**DD1618729**	Price
1/4	1/4	1-1/4	3	None	**DD1618731**	Price
1/4	1/4	1-3/4	4	None	**DD1618734**	Price
5/16	5/16	13/16	2-1/2	None	**DD1618744**	Price
5/16	5/16	13/16	2-1/2	.015	**DD1618745**	Price
3/8	3/8	1/2	2	None	**DD1618759**	Price
3/8	3/8	1/2	2	.015	**DD1618760**	Price
3/8	3/8	7/8	2-1/2	None	**DD1618763**	Price
3/8	3/8	7/8	2-1/2	.015	**DD1618764**	Price
3/8	3/8	1-1/4	3	None	**DD1614498**	Price
3/8	3/8	1-1/4	3	.015	**DD1614499**	Price
3/8	3/8	1-1/2	4	None	**DD1618767**	Price
3/8	3/8	2-1/2	4	None	**DD1618771**	Price
1/2	1/2	1	3	None	**DD1618791**	Price
1/2	1/2	1	3	.015	**DD1618792**	Price
1/2	1/2	1	3	.030	**DD1618793**	Price
1/2	1/2	1-1/4	3	None	**DD1618797**	Price
1/2	1/2	1-1/4	3	.015	**DD1618798**	Price
1/2	1/2	1-1/4	3	.030	**DD1618799**	Price
1/2	1/2	2	4	None	**DD1618803**	Price
1/2	1/2	3	5	None	**DD1618807**	Price
5/8	5/8	1-1/4	3-1/2	None	**DD1618818**	Price
5/8	5/8	1-1/4	3-1/2	.015	**DD1618819**	Price
5/8	5/8	1-1/4	3-1/2	.030	**DD1618820**	Price
5/8	5/8	2-1/4	5	None	**DD1618824**	Price
5/8	5/8	3	6	None	**DD1618828**	Price
3/4	3/4	1-5/8	4	None	**DD1618836**	Price
3/4	3/4	1-5/8	4	.015	**DD1618837**	Price
3/4	3/4	1-5/8	4	.030	**DD1618838**	Price
3/4	3/4	2-1/4	5	None	**DD1618844**	Price
3/4	3/4	3	6	None	**DD1618848**	Price

Fusion™ End Mill Series 4 Flute, Advanced Purpose



Variable Helix - Unequal Index

- General-purpose has finally evolved
- Advanced geometry increases speed, feeds, and stability
- Harmonics and vibration are dramatically reduced
- Excellent finishes in high-speed machining

Quark™ Coating

- Most advanced multi-layer coating available
- Operates at speeds and temperatures far beyond regular AlTiN
- Optimal for dry or wet environments
- Increase operating temperatures up to 1700°F

				Quark		Uncoated	
Dia. (in.)	Shank	LOC	OAL	Order No.	Price	Order No.	Price
1/8	1/8	1/2	1-1/2	**DC2020000**	Price	**DC2010000**	Price
1/8	1/8	3/4	2-1/4	**DC2020001**	Price	**DC2010001**	Price
1/8	1/8	1	3	**DC2020002**	Price	**DC2010002**	Price
3/16	3/16	5/8	2	**DC2020003**	Price	**DC2010003**	Price
3/16	3/16	3/4	2-1/2	**DC2020004**	Price	**DC2010004**	Price
1/4	1/4	3/4	2-1/2	**DC2020006**	Price	**DC2010006**	Price
1/4	1/4	1-1/8	3	**DC2020007**	Price	**DC2010007**	Price
5/16	5/16	13/16	2-1/2	**DC2020008**	Price	**DC2010008**	Price
5/16	5/16	1-1/8	3	**DC2020009**	Price	**DC2010009**	Price
5/16	5/16	1-5/8	4	**DC2020010**	Price	**DC2010010**	Price
3/8	3/8	1	2-1/2	**DC2020011**	Price	**DC2010011**	Price
3/8	3/8	1-1/8	3	**DC2020012**	Price	**DC2010012**	Price
7/16	7/16	1	2-3/4	**DC2020013**	Price	**DC2010013**	Price
7/16	7/16	2	4	**DC2020014**	Price	**DC2010014**	Price
7/16	7/16	3	6	**DC2020015**	Price	**DC2010015**	Price
1/2	1/2	1	3	**DC2020016**	Price	**DC2010016**	Price
1/2	1/2	1-1/4	3	**DC2020017**	Price	**DC2010017**	Price
1/2	1/2	1-1/2	4	**DC2020018**	Price	**DC2010018**	Price
1/2	1/2	2	4	**DC2020019**	Price	**DC2010019**	Price
5/8	5/8	1-1/4	3-1/2	**DC2020021**	Price	**DC2010021**	Price
5/8	5/8	3	6	**DC2020023**	Price	**DC2010023**	Price
5/8	5/8	2-1/4	5	**DC2020022**	Price	**DC2010022**	Price
3/4	3/4	1-1/2	4	**DC2020024**	Price	**DC2010024**	Price
3/4	3/4	2-1/4	5	**DC2020025**	Price	**DC2010025**	Price
3/4	3/4	3	6	**DC2020026**	Price	**DC2010026**	Price
3/4	3/4	4	7	**DC2020027**	Price	**DC2010027**	Price
1	1	1-1/2	4	**DC2020028**	Price	**DC2010028**	Price
1	1	2-1/4	5	**DC2020029**	Price	**DC2010029**	Price
1	1	3	6	**DC2020030**	Price	**DC2010030**	Price

Additional sizes available

V-Hemoth - Variable Helix

ALTiN Coated 4 Flute End Mills

- Variable pitch
- High production / high speed milling
- Excellent surface finish
- Eliminates chatter / reduces machine vibration
- Eccentric grind for better edge strength
- Corner radius as standard
- All tools 3/8" and up have Weldon flats





Dia. (in.)	Shank (in.)	OAL (in.)	Flute Length (in.)	Corner Radius	Order No.	Price
1/8	1/8	1-1/2	1/2	.010	**GE45VHM1254X**	Price
3/16	3/16	2	5/8	.010	**GE45VHM1874X**	Price
3/16	3/16	2-1/2	3/4	.010	**GE45VLM1874X**	Price
3/16	3/16	3	3/8	.010	**GE45VLR1874X**	Price
1/4	1/4	2-1/2	3/4	.020	**GE45VHM2504X**	Price
1/4	1/4	3	1-1/8	.020	**GE45VLM2504X**	Price
1/4	1/4	4	1/2	.020	**GE45VLR2504X**	Price
5/16	5/16	2-1/2	13/16	.020	**GE45VHM3124X**	Price
5/16	5/16	3	1-1/8	.020	**GE45VLM3124X**	Price
3/8	3/8	2-1/2	3/4	.020	**GE45VHM3754X**	Price
3/8	3/8	3	1-1/4	.020	**GE45VLM3754X**	Price
3/8	3/8	4	3/4	.020	**GE45VLR3754X**	Price
7/16	7/16	2-1/2	1	.020	**GE45VHM4374X**	Price
1/2	1/2	3	1	.030	**GE45VHM5004X**	Price
1/2	1/2	4-1/2	2-1/4	.030	**GE45VLM5004X**	Price
5/8	5/8	5	2-1/4	.030	**GE45VLM6254X**	Price
3/4	3/4	4	1-1/2	.030	**GE45VHM7504X**	Price
3/4	3/4	5	2-1/2	.030	**GE45VLM7504X**	Price

RAPIDKUT® 4 Flute Variable Helix Carbide End Mills



Variable Index • Variable Rake

- Advanced performance in steels, stainless steels, alloy, steels, titanium and hardened steels
- AlCrN coating provides increased wear resistance

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Shank Style	Radius	Order No.	Price
1/8	1/8	1/4	1-1/2	Round	None	**PE1010086**	Price
1/8	1/8	1/4	1-1/2	Round	.010	**PE1010091**	Price
1/8	1/8	1/2	1-1/2	Round	None	**PE1010096**	Price
1/8	1/8	1/2	1-1/2	Round	.010	**PE1010101**	Price
3/16	3/16	7/16	2	Round	None	**PE1010106**	Price
3/16	3/16	7/16	2	Round	.010	**PE1010111**	Price
3/16	3/16	7/16	2	Round	.030	**PE1010116**	Price
3/16	3/16	5/8	2	Round	None	**PE1010121**	Price
3/16	3/16	5/8	2	Round	.010	**PE1010126**	Price
3/16	3/16	5/8	2	Round	.030	**PE1010131**	Price
1/4	1/4	3/8	2	Round	None	**PE1010136**	Price
1/4	1/4	3/8	2	Round	.010	**PE1010141**	Price
1/4	1/4	3/8	2	Round	.020	**PE1010146**	Price
1/4	1/4	3/8	2	Round	.030	**PE1010151**	Price
1/4	1/4	3/8	2	Round	.060	**PE1010156**	Price
1/4	1/4	3/4	2-1/2	Round	None	**PE1010161**	Price
1/4	1/4	3/4	2-1/2	Round	.010	**PE1010166**	Price
1/4	1/4	3/4	2-1/2	Round	.020	**PE1010171**	Price
1/4	1/4	3/4	2-1/2	Round	.030	**PE1010176**	Price
1/4	1/4	3/4	2-1/2	Round	.060	**PE1010181**	Price
1/4	1/4	3/4	2-1/2	Round	.090	**PE1010186**	Price
1/4	1/4	3/4	3	Round	.020	**PE1010191**	Price
1/4	1/4	3/4	4	Round	.020	**PE1010196**	Price
5/16	5/16	1/2	2	Round	None	**PE1010201**	Price
5/16	5/16	1/2	2	Round	.020	**PE1010206**	Price
5/16	5/16	1/2	2	Round	.030	**PE1010211**	Price
5/16	5/16	3/4	4	Round	.020	**PE1010221**	Price
5/16	5/16	7/8	2-1/2	Round	None	**PE1010216**	Price
5/16	5/16	7/8	2-1/2	Round	.020	**PE1010226**	Price
5/16	5/16	7/8	2-1/2	Round	.030	**PE1010231**	Price
5/16	5/16	7/8	2-1/2	Round	.060	**PE1010236**	Price
3/8	3/8	1/2	2-1/2	Round	None	**PE1010241**	Price
3/8	3/8	1/2	2-1/2	Round	.020	**PE1010246**	Price
3/8	3/8	1/2	2-1/2	Round	.060	**PE1010251**	Price
3/8	3/8	3/4	4	Round	.020	**PE1010256**	Price
3/8	3/8	1	2-1/2	Round	None	**PE1010261**	Price
3/8	3/8	1	2-1/2	Round	.020	**PE1010266**	Price
3/8	3/8	1	2-1/2	Round	.030	**PE1010271**	Price
3/8	3/8	1	2-1/2	Round	.060	**PE1010276**	Price
3/8	3/8	1	2-1/2	Round	.120	**PE1010281**	Price
3/8	3/8	1	3	Round	.090	**PE1010286**	Price
3/8	3/8	2	4	Round	.020	**PE1010291**	Price
7/16	7/16	1	2-3/4	Round	None	**PE1010296**	Price
7/16	7/16	1	2-3/4	Round	.020	**PE1010301**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Shank Style	Radius	Order No.	Price
7/16	7/16	1	2-3/4	Round	.060	**PE1010306**	Price
1/2	1/2	5/8	3	Round	None	**PE1010311**	Price
1/2	1/2	5/8	3	Round	.030	**PE1010316**	Price
1/2	1/2	3/4	4	Round	.030	**PE1010321**	Price
1/2	1/2	1	3	Round	None	**PE1010326**	Price
1/2	1/2	1	3	Round	.030	**PE1010331**	Price
1/2	1/2	1	3	Weldon	.030	**PE1010336**	Price
1/2	1/2	1	3	Round	.060	**PE1010341**	Price
1/2	1/2	1	3	Round	.120	**PE1010346**	Price
1/2	1/2	1-1/4	3	Round	None	**PE1010351**	Price
1/2	1/2	1-1/4	3	Round	.030	**PE1010356**	Price
1/2	1/2	1-1/4	3	Weldon	.030	**PE1010361**	Price
1/2	1/2	1-1/4	3	Round	.060	**PE1010366**	Price
1/2	1/2	1-1/4	3	Round	.120	**PE1010371**	Price
1/2	1/2	2	4	Round	.030	**PE1010376**	Price
5/8	5/8	3/4	3-1/2	Round	None	**PE1010381**	Price
5/8	5/8	3/4	3-1/2	Round	.030	**PE1010386**	Price
5/8	5/8	3/4	3-1/2	Round	.035	**PE1010391**	Price
5/8	5/8	3/4	6	Round	.035	**PE1010396**	Price
5/8	5/8	1-1/2	3-1/2	Round	None	**PE1010401**	Price
5/8	5/8	1-1/2	3-1/2	Round	.035	**PE1010406**	Price
5/8	5/8	1-1/2	3-1/2	Round	.060	**PE1010411**	Price
5/8	5/8	1-1/2	3-1/2	Round	.120	**PE1010416**	Price
5/8	5/8	2-1/4	5	Round	.035	**PE1010421**	Price
3/4	3/4	7/8	4	Round	None	**PE1010426**	Price
3/4	3/4	7/8	4	Round	.020	**PE1010436**	Price
3/4	3/4	7/8	4	Round	.030	**PE1010441**	Price
3/4	3/4	7/8	4	Round	.035	**PE1010446**	Price
3/4	3/4	7/8	4	Round	.120	**PE1010451**	Price
3/4	3/4	7/8	4	Round	.250	**PE1010456**	Price
3/4	3/4	1-1/2	4	Round	None	**PE1010461**	Price
3/4	3/4	1-1/2	4	Round	.030	**PE1010466**	Price
3/4	3/4	1-1/2	4	Round	.035	**PE1010471**	Price
3/4	3/4	1-1/2	4	Weldon	.035	**PE1010476**	Price
3/4	3/4	1-1/2	4	Round	.120	**PE1010481**	Price
3/4	3/4	2-1/4	5	Round	.035	**PE1010486**	Price
3/4	3/4	3/4	6	Round	.035	**PE1010431**	Price
1	1	1-1/2	4	Round	None	**PE1010491**	Price
1	1	1-1/2	4	Weldon	None	**PE1010496**	Price
1	1	1-1/2	4	Round	.035	**PE1010501**	Price
1	1	2-1/4	5	Round	.035	**PE1010506**	Price
1	1	2-1/4	5	Round	.060	**PE1010511**	Price
1	1	2-1/4	5	Round	.120	**PE1010516**	Price

EXOCARB® WXS® Carbide End Mills

4 Flute

- 45° Helix
- OSG List #4540



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1mm	6mm	2.5mm	60mm	**TP483041010**	Price
1.5mm	6mm	4mm	60mm	**TP483041015**	Price
2mm	6mm	6mm	60mm	**TP483041020**	Price
2.5mm	6mm	8mm	60mm	**TP483041025**	Price
3mm	6mm	8mm	60mm	**TP483041030**	Price
3.5mm	6mm	10mm	60mm	**TP483041035**	Price
4mm	6mm	11mm	60mm	**TP483041040**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
4.5mm	6mm	11mm	60mm	**TP483041045**	Price
5mm	6mm	13mm	60mm	**TP483041050**	Price
5.5mm	6mm	13mm	60mm	**TP483041055**	Price
6mm	6mm	13mm	60mm	**TP483041060**	Price
8mm	8mm	19mm	70mm	**TP483041080**	Price
10mm	10mm	22mm	80mm	**TP483041100**	Price
12mm	12mm	26mm	90mm	**TP483041120**	Price

4 Flute WXL® Coated Corner Radius Carbide End Mills

- For side milling & shallow slotting in non-ferrous and hardened steels
- WXL® coated, enhanced geometry and substrate
- Tolerance for milling diameter: R < 1/2 0 ~ –.0008" 1/2> D 0 ~ –.0012"
- OSG List #3670

EXOCARB®

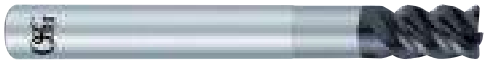


Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price
1/16	1/8	3/16	1-1/2	.010	**TP4836700111**	Price
5/64	1/8	1/4	1-1/2	.010	**TP4836700211**	Price
3/32	1/8	3/8	1-1/2	.010	**TP4836700311**	Price
1/8	1/8	1/2	1-1/2	.010	**TP4836700511**	Price
1/8	1/8	1/2	1-1/2	.020	**TP4836700611**	Price
5/32	3/16	9/16	2	.030	**TP4836700911**	Price
3/16	3/16	5/8	2	.020	**TP4836701011**	Price
1/4	1/4	3/4	2-1/2	.020	**TP4836701411**	Price
1/4	1/4	3/4	2-1/2	.030	**TP4836701511**	Price
1/4	1/4	3/4	2-1/2	.060	**TP4836701711**	Price
3/8	3/8	1	2-1/2	.020	**TP4836702011**	Price
3/8	3/8	1	2-1/2	.030	**TP4836702111**	Price
3/8	3/8	1	2-1/2	.060	**TP4836702311**	Price
1/2	1/2	1	3	.030	**TP4836702711**	Price
1/2	1/2	1	3	.060	**TP4836702911**	Price

EXOCARB® WXS® Carbide High Performance End Mills

4 Flute

- 45° Helix
- Center cutting
- WXS® coating
- OSG List #4471



Size (in.)	Shank Dia. (in.)	LOC (in.)	OAL (in.)	Radius	Neck Dia. (in.)	Neck Length (in.)	Order No.	Price
1/16	1/8	1/16	2-1/4	.010	.0580	1/4	**TP48447100111**	Price
3/32	1/8	3/32	2-1/4	.010	.0890	3/8	**TP48447100311**	Price
1/8	1/8	1/8	2-1/4	.010	.1200	1/2	**TP48447100511**	Price
1/8	1/8	1/8	2-1/4	.020	.1200	1/2	**TP48447100711**	Price
3/16	3/16	3/16	2-1/4	.020	.1810	1/2	**TP48447101011**	Price
3/16	3/16	3/16	2-1/4	.030	.1810	1/2	**TP48447101111**	Price
1/4	1/4	1/4	2-1/2	.010	.2420	3/4	**TP48447101411**	Price
1/8	1/8	1/8	2-1/4	.015	.1200	1/2	**TP48447100611**	Price
1/4	1/4	1/4	2-1/2	.020	.2420	3/4	**TP48447101511**	Price
1/4	1/4	1/4	2-1/2	.030	.2420	3/4	**TP48447101611**	Price
3/8	3/8	3/8	3	.020	.3670	1	**TP48447102011**	Price
3/8	3/8	3/8	3	.030	.3670	1	**TP48447102111**	Price
3/8	3/8	3/8	3	.060	.3670	1	**TP48447102211**	Price
1/2	1/2	1/2	3-1/4	.030	.4880	1-1/2	**TP48447102611**	Price
1/2	1/2	1/2	3-1/4	.060	.4880	1-1/2	**TP48447102711**	Price

Multiple Flute 45° Helix WXS® Coated Carbide End Mills

EXOCARB®

- For side milling in hardened steels up to 70 HRc
- Benefits: WXS® coated, higher speeds & feeds
- Tolerance for milling diameter: R<1/2 +0 / –.0008; greater than1/2 D +0 / –.0012"
- OSG List #4440



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	No. of Flutes	OAL (in.)	Order No.	Price
1/16	1/4	3/16	4	2-1/2	**TP4844400311**	Price
3/32	1/4	5/16	4	2-1/2	**TP4844400511**	Price
1/8	1/4	3/8	4	2-1/2	**TP4844400711**	Price
3/16	1/4	1/2	4	2-1/2	**TP4844400911**	Price
1/4	1/4	5/8	6	2-1/2	**TP4844401111**	Price
5/16	5/16	3/4	6	2-3/4	**TP4844401311**	Price
3/8	3/8	1	6	3	**TP4844401411**	Price
1/2	1/2	1-1/8	6	3-1/2	**TP4844401611**	Price
5/8	5/8	1-1/2	6	4	**TP4844401811**	Price
3/4	3/4	1-3/4	6	4-1/4	**TP4844402011**	Price

4 Flute Square End WXL® Coated Carbide End Mills

- For side milling & shallow slotting in non-ferrous and hardened steels
- WXL® coated, enhanced geometry and substrate
- Tolerance for milling diameter: R<1/2 0 ~ –.0008" 1/2 D> 0 ~ –.0012"
- OSG List #3604

EXOCARB®



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	1/8	3/16	1-1/2	**TP4836040111**	Price
3/32	1/8	3/8	1-1/2	**TP4836040311**	Price
1/8	1/8	1/2	1-1/2	**TP4836040511**	Price
3/16	3/16	5/8	2	**TP4836040711**	Price
1/4	1/4	3/4	2-1/2	**TP4836040911**	Price
5/16	5/16	13/16	2-1/2	**TP4836041111**	Price
3/8	3/8	1	2-1/2	**TP4836041211**	Price
1/2	1/2	1	3	**TP4836041411**	Price
5/8	5/8	1-1/4	3-1/2	**TP4836041511**	Price

RAPIDKUT® Solid Carbide 4 Flute End Mills

Center Cutting • Round Shanks

- 4 Flute design with 35-38° helix for high performance milling
- Specifically designed for stainless steel applications

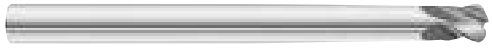


					AlCrN		Uncoated	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price	Order No.	Price
1/8	1/8	1/2	1-1/2	.020	**DC6210094**	Price	**DC6010076**	Price
3/16	3/16	5/8	2	.020	**DC6210095**	Price	**DC6010077**	Price
1/4	1/4	3/4	2-1/2	.020	**DC6210096**	Price	**DC6010078**	Price
5/16	5/16	13/16	2-1/2	.020	**DC6210097**	Price	**DC6010079**	Price
3/8	3/8	7/8	2-1/2	.020	**DC6210098**	Price	**DC6010080**	Price
1/2	1/2	1-1/4	3	.020	**DC6210099**	Price	**DC6010081**	Price
5/8	5/8	1-5/8	3-1/2	.040	**DC6210100**	Price	**DC6010082**	Price
3/4	3/4	1-5/8	4	.040	**DC6210101**	Price	**DC6010083**	Price

RAPIDKUT® 4 Flute High Feed End Mills

Solid Carbide

- TiAlN coated for greater lubricity
- Diameter tolerance +0 / -.002"
- Length of cut tolerance +/- .015"
- Overall length tolerance +/- .062"
- Corner radius tolerance +/- .003"



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Neck Length (in.)	Order No.	Price
1/8	3/16	3/8	2-1/2	.090	**PE1612510**	Price
1/8	3/16	3/8	2-1/2	.400	**PE1612505**	Price
3/16	1/4	3/8	2-1/2	.562	**PE1618705**	Price
3/16	1/4	3/8	2-1/2	1.000	**PE1618710**	Price
1/4	1/4	3/8	3	.800	**PE1625005**	Price
1/4	1/4	3/8	3	1.300	**PE1625010**	Price
5/16	5/16	3/8	4	1.000	**PE1631205**	Price
5/16	5/16	3/8	4	1.600	**PE1631210**	Price
3/8	3/8	3/8	4	1.100	**PE1637505**	Price
3/8	3/8	3/8	4	1.900	**PE1637510**	Price
1/2	1/2	3/8	4	1.600	**PE1650005**	Price
1/2	1/2	3/8	6	3.000	**PE1650010**	Price

PREMIER HP HIGH PERFORMANCE 4 Flute 30° Helix Medium Length End Mills

For Production-High Performance • AlTiN Coated

- Made of micro-grain carbide, which is processed by special high temperature furnaces-this process allows no porosity after cooling and creates a tougher, stronger end mill
- Can be widely used for milling from raw materials to hardened steels
- Superior workpiece finishes
- Longevity is more than five times as long as non-coated end mill
- AlTiN coated for better endurance when dry-milling
- Best for work material 60HRc or above
- O.D. tolerance: -.0005" -.0015"
- Shank tolerance: 0 -.0003"



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	1/8	5/16	2	**DD25M304004**	Price
1/8	1/8	5/8	2	**DD25M304008**	Price
3/16	3/16	3/4	2-1/8	**DD25M304012**	Price
1/4	1/4	1	2-3/4	**DD25M304016**	Price
5/16	5/16	1	2-3/4	**DD25M304020**	Price
3/8	3/8	1	2-3/4	**DD25M304024**	Price
1/2	1/2	1-1/2	3-1/2	**DD25M304032**	Price
5/8	5/8	1-3/4	4	**DD25M304040**	Price
3/4	3/4	2	4-1/2	**DD25M304048**	Price
1	1	2	4-1/2	**DD25M304100**	Price

RAPIDKUT 4 Flute 40° Helix Square Carbide End Mills

- High helix for excellent chip ejection
- Higher shearing action
- Used for stainless steel and exotic materials
- Made from premium submicron grain carbide
- Cutting diameter tolerance : +.000/ -.002"



				Uncoated		AlTiN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/32	1/8	3/32	1-1/2	**DD8112169**	Price	**DD8152169**	Price
3/64	1/8	1/8	1-1/2	**DD8112171**	Price	**DD8152171**	Price
1/16	1/8	3/16	1-1/2	**DD8112175**	Price	**DD8152175**	Price
3/32	1/8	3/8	1-1/2	**DD8112087**	Price	**DD8152087**	Price
1/8	1/8	1/2	1-1/2	**DD8112076**	Price	**DD8152076**	Price
9/64	3/16	9/16	2	**DD8112015**	Price	**DD8152015**	Price
5/32	3/16	9/16	2	**DD8112017**	Price	**DD8152017**	Price
11/64	3/16	9/16	2	**DD8112181**	Price	**DD8152181**	Price
3/16	3/16	5/8	2	**DD8112019**	Price	**DD8152019**	Price
13/64	1/4	5/8	2-1/2	**DD8112183**	Price	**DD8152183**	Price
7/32	1/4	5/8	2-1/2	**DD8112185**	Price	**DD8152185**	Price
15/64	1/4	3/4	2-1/2	**DD8112187**	Price	**DD8152187**	Price
1/4	1/4	3/4	2-1/2	**DD8112089**	Price	**DD8152089**	Price
17/64	5/16	3/4	2-1/2	**DD8112020**	Price	**DD8152020**	Price
5/16	5/16	13/16	2-1/2	**DD8112023**	Price	**DD8152023**	Price
3/8	3/8	1	2-1/2	**DD8112147**	Price	**DD8152147**	Price
7/16	7/16	1	2-3/4	**DD8112155**	Price	**DD8152155**	Price
1/2	1/2	1	3	**DD8112077**	Price	**DD8152077**	Price
5/8	5/8	1-1/4	3-1/2	**DD8112163**	Price	**DD8152163**	Price
3/4	3/4	1-1/2	4	**DD8112165**	Price	**DD8152165**	Price

EXOCARB®-WXS® End Mills

- High performance micrograin carbide
- WXS coating
- Corner radius
- For high feed milling
- Recommended for carbon steels, alloy steels, tool steels, hardened steels up to 65 HrC and cast iron
- OSG List #4470



Dia. (in.)	Shank Dia. (in.)	Flute Length	OAL (in.)	Neck Dia.	Neck Length (in.)	Corner Radius (in.)	No. of Flutes	Order No.	Price
1/8	1/4	.0600	2-1/4	.1100	3/8	1/32	3	**TP4840700111**	Price
3/16	1/4	.0900	2-1/4	.1800	9/16	1/16	3	**TP4840700211**	Price
1/4	1/4	.1000	3	.2200	1	1/16	4	**TP4844700311**	Price
5/16	5/16	.1300	3	.2800	1-1/4	3/32	4	**TP4840700411**	Price
3/8	3/8	.1500	4	.3300	1-1/2	3/32	4	**TP4840700511**	Price
1/2	1/2	.2000	5	.4600	2	1/8	4	**TP4844700611**	Price

EXOCARB® WXS® Carbide High Performance End Mills

4 Flute

- 45° Helix
- Center cutting
- WXS® coating
- OSG List #4571



Size	Shank Dia.	LOC	OAL	Radius	Neck Dia.	Order No.	Price
3mm	6mm	5mm	60mm	0.2mm	2.85mm	**TP48457103011**	Price
3mm	6mm	5mm	60mm	0.5mm	2.85mm	**TP48457103211**	Price
3mm	6mm	5mm	70mm	0.2mm	2.85mm	**TP48457103111**	Price
3mm	6mm	5mm	70mm	0.5mm	2.85mm	**TP48457103311**	Price
4mm	6mm	6mm	70mm	0.2mm	3.8mm	**TP48457104011**	Price
4mm	6mm	6mm	70mm	0.5mm	3.8mm	**TP48457104211**	Price
4mm	6mm	6mm	80mm	0.2mm	3.8mm	**TP48457104111**	Price
4mm	6mm	6mm	80mm	0.5mm	3.8mm	**TP48457104311**	Price
5mm	6mm	8mm	80mm	0.2mm	4.8mm	**TP48457105011**	Price
5mm	6mm	8mm	80mm	0.5mm	4.8mm	**TP48457105211**	Price
5mm	6mm	8mm	90mm	0.2mm	4.8mm	**TP48457105111**	Price
5mm	6mm	8mm	90mm	0.5mm	4.8mm	**TP48457105311**	Price
6mm	6mm	9mm	90mm	0.5mm	5.8mm	**TP48457106011**	Price
6mm	6mm	9mm	90mm	1mm	5.8mm	**TP48457106111**	Price
6mm	6mm	9mm	100mm	0.5mm	5.8mm	**TP48457106311**	Price
6mm	6mm	9mm	100mm	1mm	5.8mm	**TP48457106211**	Price
8mm	8mm	12mm	100mm	0.5mm	7.7mm	**TP48457108011**	Price
8mm	8mm	12mm	100mm	1mm	7.7mm	**TP48457108211**	Price
8mm	8mm	12mm	110mm	0.5mm	7.7mm	**TP48457108111**	Price
8mm	8mm	12mm	110mm	1mm	7.7mm	**TP48457108311**	Price
10mm	10mm	15mm	100mm	0.5mm	9.7mm	**TP48457110011**	Price
10mm	10mm	15mm	100mm	1mm	9.7mm	**TP48457110211**	Price
10mm	10mm	15mm	100mm	2mm	9.7mm	**TP48457110411**	Price
10mm	10mm	15mm	120mm	0.5mm	9.7mm	**TP48457110111**	Price
10mm	10mm	15mm	120mm	1mm	9.7mm	**TP48457110311**	Price
10mm	10mm	15mm	120mm	2mm	9.7mm	**TP48457110511**	Price
12mm	12mm	18mm	110mm	1mm	11.7mm	**TP48457112011**	Price
12mm	12mm	18mm	110mm	2mm	11.7mm	**TP48457112211**	Price
12mm	12mm	18mm	130mm	1mm	11.7mm	**TP48457112111**	Price
12mm	12mm	18mm	130mm	2mm	11.7mm	**TP48457112311**	Price

RAPIDKUT® Solid Carbide 4 Flute Metric High Spiral End Mills

Center Cutting • Round Shanks

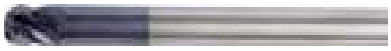
- Uncoated, AlCrN or AlTiN coated
- 4 Flute design with 35-38° helix for high performance milling
- Specifically designed for stainless steel applications



				Uncoated		AlTiN		AlCrN	
Size	Shank Dia.	Flute Length	OAL	Order No.	Price	Order No.	Price	Order No.	Price
3mm	6mm	8mm	57mm	**DC6010001**	Price	**DC6310001**	Price	**DC6210001**	Price
4mm	6mm	11mm	57mm	**DC6010002**	Price	**DC6310002**	Price	**DC6210002**	Price
5mm	6mm	13mm	57mm	**DC6010003**	Price	**DC6310003**	Price	**DC6210003**	Price
6mm	6mm	13mm	57mm	**DC6010004**	Price	**DC6310004**	Price	**DC6210004**	Price
7mm	8mm	19mm	63mm	**DC6010005**	Price	**DC6310005**	Price	**DC6210005**	Price
8mm	8mm	19mm	63mm	**DC6010006**	Price	**DC6310006**	Price	**DC6210006**	Price
9mm	10mm	22mm	72mm	**DC6010007**	Price	**DC6310007**	Price	**DC6210007**	Price
10mm	10mm	22mm	72mm	**DC6010008**	Price	**DC6310008**	Price	**-**	-
10mm	10mm	25mm	72mm	**-**	-	**-**	-	**DC6210008**	Price
11mm	12mm	26mm	83mm	**DC6010009**	Price	**DC6310009**	Price	**DC6210009**	Price
12mm	12mm	26mm	83mm	**DC6010010**	Price	**DC6310010**	Price	**DC6210010**	Price
13mm	14mm	26mm	83mm	**DC6010011**	Price	**DC6310011**	Price	**DC6210011**	Price
14mm	14mm	26mm	83mm	**DC6010060**	Price	**DC6310060**	Price	**DC6210060**	Price
16mm	16mm	32mm	92mm	**DC6010065**	Price	**DC6310065**	Price	**DC6210065**	Price
18mm	18mm	32mm	92mm	**DC6010070**	Price	**DC6310070**	Price	**DC6210070**	Price
20mm	20mm	38mm	104mm	**DC6010075**	Price	**DC6310075**	Price	**DC6210075**	Price

WIDIA Solid Carbide HP Varimill I™ Extended Reach Ball Nose End Mills

4 Flute • TiAlN Coated



- Unequal flute spacing
- 38° Helix
- Center cutting
- Cylindrical shanks
- TiAlN coated for longer tool life

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/4	1/4	3/8	4	**WK402837105**	Price
3/8	3/8	1/2	4	**WK403018276**	Price
1/2	1/2	5/8	5	**WK402837088**	Price
5/8	5/8	3/4	6	**WK402837081**	Price
3/4	3/4	1	6	**WK402837073**	Price

PCT 4 Flute Solid Carbide Ball Nose End Mills

Variable Helix



- Variantra ® Supral (TiAlCN) coated
- 45° Chamfer
- PCT List #0451

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Reach (in.)	Order No.	Price
1/8	1/8	1/2	1-1/2	-	**CW8021350**	Price
3/16	3/16	5/8	2	-	**CW8021355**	Price
1/4	1/4	3/4	2-1/2	-	**CW8021395**	Price
1/4	1/4	3/8	4	2-1/8	**CW8021390**	Price
5/16	5/16	1/2	2	-	**CW8021445**	Price
5/16	5/16	7/8	2-1/2	-	**CW8021450**	Price
3/8	3/8	1/2	6	3-3/8	**CW8021520**	Price
3/8	3/8	1	3	-	**CW8021535**	Price
7/16	7/16	1	2-3/4	-	**CW8021590**	Price
1/2	1/2	5/8	5	3-1/8	**CW8021650**	Price
1/2	1/2	5/8	6	4-1/8	**CW8021660**	Price
1/2	1/2	1-1/4	3	-	**CW801T40812503B**	Price
1/2	1/2	2	4	-	**CW8021695**	Price
5/8	5/8	3/4	5	3-1/8	**CW8021755**	Price
5/8	5/8	3/4	6	4-1/8	**CW8021765**	Price
5/8	5/8	1-1/4	3-1/2	-	**CW8021770**	Price
3/4	3/4	1	5	3	**CW8021850**	Price
3/4	3/4	1	6	4	**CW8021860**	Price
3/4	3/4	1-1/2	4	-	**CW8021870**	Price
1	1	1-1/4	6	3-1/8	**CW8021930**	Price
1	1	1-1/4	7	4-1/8	**CW8021940**	Price
1	1	1-1/2	4	-	**CW8021945**	Price
1	1	3	6	-	**CW8021985**	Price

WIDIA Solid Carbide Varimill GP Ball Nose End Mills

4 Flute • TiAlN Coated



- Center cutting
- Cylindrical shanks
- TiAlN coated for longer tool life

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/32	1/8	5/64	1-1/2	**WK405825624**	Price
3/64	1/8	1/8	1-1/2	**WK405825625**	Price
1/16	1/8	3/16	1-1/2	**WK405825626**	Price
3/32	1/8	3/16	1-1/2	**WK405825628**	Price
3/32	1/8	3/8	1-1/2	**WK405825643**	Price
1/8	1/8	1/4	1-1/2	**WK405825646**	Price
1/8	1/8	1/2	1-1/2	**WK405825647**	Price
1/8	1/8	3/4	2-1/4	**WK405825648**	Price
1/8	1/8	3/4	3	**WK405825649**	Price
5/32	3/16	9/16	2	**WK405825652**	Price
3/16	3/16	5/16	1-1/2	**WK405825654**	Price
3/16	3/16	5/8	2	**WK405825655**	Price
3/16	3/16	3/4	2-1/2	**WK405825656**	Price
3/16	3/16	1	4	**WK405825657**	Price
7/32	1/4	5/8	2-1/2	**WK405825659**	Price
1/4	1/4	1/2	2	**WK405825661**	Price
1/4	1/4	3/4	2-1/2	**WK405825663**	Price
1/4	1/4	1-1/8	3	**WK405825664**	Price
1/4	1/4	1-1/2	4	**WK405825665**	Price
5/16	5/16	13/16	2-1/2	**WK405825670**	Price
3/8	3/8	1	2-1/2	**WK405825684**	Price
3/8	3/8	1	4	**WK405825685**	Price
3/8	3/8	1-1/8	3	**WK405825686**	Price
3/8	3/8	1-1/2	6	**WK405825687**	Price
1/2	1/2	1	3	**WK405825689**	Price
1/2	1/2	1	4	**WK405825690**	Price
1/2	1/2	1-1/2	6	**WK405825691**	Price
1/2	1/2	2	4	**WK405825692**	Price
5/8	5/8	1-1/4	3-1/2	**WK405825697**	Price
3/4	3/4	1	3	**WK405825700**	Price
3/4	3/4	1-1/2	4	**WK405825711**	Price

RAPIDKUT® 4 Flute Variable Helix Carbide Ball Nose End Mills



Variable Index • Variable Rake

- Advanced performance in steels, stainless steels, alloy, steels, titanium and hardened steels
- AlCrN coating provides increased wear resistance

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	1/8	1/4	1-1/2	**PE1010001**	Price
1/8	1/8	1/2	1-1/2	**PE1010006**	Price
3/16	3/16	5/8	2	**PE1010011**	Price
1/4	1/4	3/8	2	**PE1010016**	Price
1/4	1/4	3/4	2-1/2	**PE1010021**	Price
5/16	5/16	7/8	2-1/2	**PE1010026**	Price
3/8	3/8	1/2	2-1/2	**PE1010031**	Price
3/8	3/8	1	2-1/2	**PE1010036**	Price
7/16	7/16	1	2-3/4	**PE1010041**	Price
1/2	1/2	5/8	3	**PE1010046**	Price
1/2	1/2	1	3	**PE1010051**	Price
1/2	1/2	1-1/4	3	**PE1010056**	Price
5/8	5/8	3/4	3-1/2	**PE1010061**	Price
5/8	5/8	1-1/2	3-1/2	**PE1010066**	Price
3/4	3/4	7/8	4	**PE1010076**	Price
3/4	3/4	3/4	4	**PE1010071**	Price
1	1	1-1/2	4	**PE1010081**	Price

RAPIDKUT® 4 Flute Solid Carbide Spherical Ball End Mills

Center Cutting • nACO Coated for Hardened Steel

- High performance ball nose plus end mills are used in the mold industry and have a full 220° arc cutting capability
- Tools are stocked with a coating to optimize cutting performance
- Made from premium submicron grain carbide
- Cutting diameter tolerance: +.000/-.002”



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	1/8	3/32	3	**DD8180331**	Price
3/16	3/16	9/64	3	**DD8180333**	Price
1/4	1/4	3/16	2-1/2	**DD8180055**	Price
1/4	1/4	3/16	4	**DD8180335**	Price
3/8	3/8	9/32	2-1/2	**DD8180057**	Price
3/8	3/8	9/32	4	**DD8180337**	Price
1/2	1/2	3/8	3	**DD8180059**	Price
1/2	1/2	3/8	6	**DD8180339**	Price

RAPIDKUT® 4 Flute Solid Carbide 40° Helix Ball End Mills



- High helix for excellent chip ejection
- Higher shearing action
- Used for stainless steel and exotic materials
- Made from premium submicron grain carbide
- Cutting diameter tolerance : +.000/ -.002”

				Uncoated		AlTiN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/32	1/8	3/32	1-1/2	**DD8112173**	Price	**DD8152173**	Price
1/16	1/8	3/16	1-1/2	**DD8112101**	Price	**DD8152101**	Price
3/32	1/8	3/8	1-1/2	**DD8112179**	Price	**DD8152179**	Price
1/8	1/8	1/2	1-1/2	**DD8112025**	Price	**DD8152025**	Price
5/32	3/16	9/16	2	**DD8112027**	Price	**DD8152027**	Price
3/16	3/16	5/8	2	**DD8112029**	Price	**DD8152029**	Price
7/32	1/4	5/8	2-1/2	**-**	-	**DD8152189**	Price
1/4	1/4	3/4	2-1/2	**DD8112031**	Price	**DD8152031**	Price
5/16	5/16	13/16	2-1/2	**DD8112141**	Price	**DD8152141**	Price
3/8	3/8	1	2-1/2	**DD8112149**	Price	**DD8152149**	Price
1/2	1/2	1	3	**DD8112159**	Price	**DD8152159**	Price

MICRO 100 High Performance Solid Carbide Ball End Mills

2 & 4 Flute — Center Cutting — 30° Helix

- Shank diameter tolerance: .0001” to – .0003”
- Ball radius tolerance: +.005 – .000”
- T.I.R. maximum: .0005”
- Cutter diameter tolerances:
  1/32 to 1/4” +.000 – .002”
  9/32 to 1” +.000 – .003”



Flutes - 2							
				AlTiN		Uncoated	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/32	1/8	5/64	1-1/2	**-**	-	**GE45BEM03102**	Price
1/16	1/8	3/16	1-1/2	**GE45BEM06202X**	Price	**GE45BEM06202**	Price
3/32	1/8	3/8	1-1/2	**GE45BEM09302X**	Price	**GE45BEM09302**	Price
1/8	1/8	1/2	1-1/2	**GE45BEM12502X**	Price	**GE45BEM12502**	Price
3/16	3/16	5/8	2	**GE45BEM18702X**	Price	**GE45BEM18702**	Price
7/32	1/4	5/8	2-1/2	**-**	-	**GE45BEM21802**	Price
1/4	1/4	3/4	2-1/2	**GE45BEM25002X**	Price	**GE45BEM25002**	Price
5/16	5/16	13/16	2-1/2	**GE45BEM31202X**	Price	**GE45BEM31202**	Price
3/8	3/8	7/8	2-1/2	**GE45BEM37502X**	Price	**GE45BEM37502**	Price
1/2	1/2	1	3	**GE45BEM50002X**	Price	**GE45BEM50002**	Price

Flutes - 4							
				AlTiN		Uncoated	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
3/64	1/8	7/64	1-1/2	**GE45BEM04604X**	Price	**GE45BEM04604**	Price
1/16	1/8	3/16	1-1/2	**GE45BEM06204X**	Price	**GE45BEM06204**	Price
5/64	1/8	3/16	1-1/2	**GE45BEM07804X**	Price	**GE45BEM07804**	Price
3/32	1/8	3/8	1-1/2	**GE45BEM09304X**	Price	**GE45BEM09304**	Price
1/8	1/8	1/2	1-1/2	**GE45BEM12504X**	Price	**GE45BEM12504**	Price
5/32	3/16	9/16	2	**GE45BEM15604X**	Price	**GE45BEM15604**	Price
3/16	3/16	5/8	2	**GE45BEM18704X**	Price	**GE45BEM18704**	Price
7/32	1/4	5/8	2-1/2	**-**	-	**GE45BEM21804**	Price
1/4	1/4	3/4	2-1/2	**GE45BEM25004X**	Price	**GE45BEM25004**	Price
9/32	5/16	3/4	2-1/2	**GE45BEM28104X**	Price	**GE45BEM28104**	Price
5/16	5/16	13/16	2-1/2	**GE45BEM31204X**	Price	**GE45BEM31204**	Price
3/8	3/8	7/8	2-1/2	**GE45BEM37504X**	Price	**GE45BEM37504**	Price
1/2	1/2	1	3	**GE45BEM50004X**	Price	**GE45BEM50004**	Price
1	1	1-1/2	4	**-**	-	**GE45BEM00104**	Price

PREMIER HP HIGH PERFORMANCE Carbide 4 Flute 30° Helix Long Reach Ball End Mills with AlTiN Coating

(For Production — High Performance)

- Can be widely used for milling from raw materials, pre-hardened steels, and to hardened steels
- Deep slotting milling is possible by reduced neck
- For copy-milling machines
- Longevity is more than five times as long as non-coated end mill
- AlTiN coating provides higher wear resistance when dry-milling
- OD tolerance: -.0005” ~ -.0015”
- Shank tolerance: 0 ~ -.0003”
- Radius tolerance: ± .001”



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	Neck Dia.	Length Below Shank (in.)	OAL (in.)	Order No.	Price
1/8	1/8	1/8	-	-	2-3/4	**DD25LB304008**	Price
3/16	3/16	3/16	-	-	3-1/8	**DD25LB304012**	Price
1/4	1/4	1/4	.242	7/8	3-1/8	**DD25LB304016**	Price
5/16	5/16	5/16	.305	1-1/16	3-1/2	**DD25LB304020**	Price
3/8	3/8	3/8	.367	1-1/4	4	**DD25LB304024**	Price
1/2	1/2	1/2	.492	1-1/2	4-1/4	**DD25LB304032**	Price
5/8	5/8	5/8	.617	2	5-1/2	**DD25LB304040**	Price
3/4	3/4	3/4	.742	2-1/4	6-1/4	**DD25LB304048**	Price
1	1	1	.992	3	7	**DD25LB304100**	Price

RAPIDKUT 4 Flute Solid Carbide Ball End Mills



Center Cutting • Variable Helix

- Helix changes along flute
- Radius ball for contouring parts and surfaces
- Cutting diameter tolerance: +.000/-.002"

AlTiN

Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/4	1/4	3/4	2-1/2	**DD8112279**	Price
5/16	5/16	13/16	2-1/2	**DD8112297**	Price
3/8	1/4	3/4	2-1/2	**DD8112298**	Price
1/2	1/2	1	3	**DD8112299**	Price
5/8	5/8	1-1/4	3-1/2	**DD8112300**	Price
3/4	3/4	1-1/2	4	**DD8112301**	Price

HY-PRO® CARB VGx High Performance End Mills

4 Flute • Ball Nose • Variable Geometry

- TiAlN coated
- 35° Helix
- OSG List #VG441BN



Size (in.)	Shank Dia. (in.)	LOC (in.)	OAI (in.)	Shank Type	Order No.	Price
1/8	1/8	1/2	2	Round	**TP45VG4411250BN**	Price
3/16	3/16	5/8	2-1/4	Round	**TP45VG4411875BN**	Price
1/4	1/4	3/4	2-1/2	Round	**TP45VG4412500BN**	Price
5/16	5/16	3/4	2-1/2	Round	**TP45VG4413125BN**	Price
3/8	3/8	7/8	2-1/2	Weldon	**TP45VG4413750BN**	Price
7/16	7/16	7/8	2-1/2	Weldon	**TP45VG4414375BN**	Price
1/2	1/2	1	3	Weldon	**TP45VG4415000BN**	Price
1/2	1/2	1-1/4	3	Weldon	**TP45VG4415010BN**	Price
5/8	5/8	1-1/4	3-1/2	Weldon	**TP45VG4416250BN**	Price
3/4	3/4	1-1/2	4	Weldon	**TP45VG4417500BN**	Price
1	1	1-1/2	4	Weldon	**TP45VG4411000BN**	Price
1-1/4	1-1/4	2-1/4	5	Weldon	**TP45VG4411010BN**	Price

TuffCut® XT 4 Flute Carbide Ball Nose End Mills

Variable Helix • Altima® Blaze Coated



- Variable 35°/38° helix
- Center cutting
- Higher feeds over similar end mills
- Reduced vibration harmonics
- Improved part finishes
- Maintains cutting edge strength & sharpness for improved tool life
- Slotting at 1X diameter deep
- State-of-the-art ALtima® Blaze coating for superior tool life and higher metal removal rates
- Designed for specific applications in steels, stainless steels, special alloys, cast iron, titanium inconel, and high temp alloys
- M.A. Ford List #279

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/2	1/2	1-1/4	3	**DD1627932**	Price
1/2	1/2	5/8	2-1/2	**DD1627930**	Price
1/4	1/4	3/4	2-1/2	**DD1627920**	Price
1/4	1/4	3/8	2	**DD1627918**	Price
1/8	1/8	1/4	1-1/2	**DD1627910**	Price
1/8	1/8	3/8	1-1/2	**DD1627912**	Price
3/16	3/16	3/8	2	**DD1627914**	Price
3/16	3/16	5/8	2	**DD1627916**	Price
3/4	3/4	1-1/2	4	**DD1627936**	Price
3/8	3/8	1/2	2	**DD1627926**	Price
3/8	3/8	7/8	2-1/2	**DD1627928**	Price
5/16	5/16	1/2	2	**DD1627922**	Price
5/16	5/16	13/16	2-1/2	**DD1627924**	Price
5/8	5/8	1-1/4	3-1/2	**DD1627934**	Price
7/16	1	7/16	2-1/2	**DD1627931**	Price
7/16	1/2	7/16	2-1/2	**DD1627929**	Price

POW•R•FEED® M924B Solid Carbide 4 Flute Variable Index Ball Nose End Mill

- Excellent for contouring applications in a wide range of materials
- Advanced coating and tool design improves tool life exponentially
- Top of its class for agressive slotting, perimeter milling and plunging in all ferrous metals
- 38° Helix, round shank

MADE IN THE USA





				Round Shank	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	1/8	1/2	1-1/2	**DD4167501**	Price
5/32	3/16	9/16	2	**DD4167540**	Price
3/16	3/16	9/16	2	**DD4167513**	Price
1/4	1/4	3/4	2-1/2	**DD4167529**	Price
5/16	5/16	13/16	2-1/2	**DD4167103**	Price
3/8	3/8	7/8	2-1/2	**DD4167131**	Price
7/16	7/16	1	2-3/4	**DD4167195**	Price
1/2	1/2	1	3	**DD4167221**	Price
1/2	1/2	1-1/4	3	**DD4167230**	Price
5/8	5/8	1-3/8	3-1/2	**DD4167295**	Price
3/4	3/4	1-5/8	4	**DD4167365**	Price

TuffCut® XR 4 Flute ALtima® Coated HP Ball Nose End Mills



Center Cutting • Fractional Sizes • 35°/38° Helix

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	1/8	1/8	1-1/2	**DD1618284**	Price
5/64	1/8	5/32	1-1/2	**DD1618286**	Price
3/32	1/8	3/16	1-1/2	**DD1618288**	Price
1/8	1/8	1/4	1-1/2	**DD1618034**	Price
1/8	1/8	3/8	1-1/2	**DD1618035**	Price
3/16	3/16	3/8	2	**DD1618038**	Price
3/16	3/16	5/8	2	**DD1618039**	Price
1/4	1/4	3/8	2	**DD1518042**	Price
1/4	1/4	3/4	2-1/2	**DD1618043**	Price
1/4	1/4	1/2	4	**DD1618063**	Price
5/16	5/16	1/2	2	**DD1618045**	Price
5/16	5/16	13/16	2-1/2	**DD1618046**	Price
3/8	3/8	1/2	2	**DD1618048**	Price
3/8	3/8	7/8	2-1/2	**DD1618049**	Price
3/8	3/8	9/16	4	**DD1618064**	Price
1/2	1/2	5/8	2-1/2	**DD1618054**	Price
1/2	1/2	1-1/4	3	**DD1618055**	Price
1/2	1/2	5/8	5	**DD1618065**	Price
5/8	5/8	1-1/4	3-1/2	**DD1618058**	Price
5/8	5/8	3/4	6	**DD1618066**	Price
3/4	3/4	1	6	**DD1618067**	Price
3/4	3/4	1-1/2	4	**DD1618060**	Price
1	1	1-1/2	4	**DD1618062**	Price
1	1	1-1/4	6	**DD1618068**	Price

POW•R•FEED® M904B Solid Carbide 4 Flute Variable Index Ball End Mill

- Well known for its power, balance, and versatility in a wide range of materials
- Unique vibration dampening geometry for chatter-free machining
- AlTiN-X coating for higher hot hardness than conventional 'general purpose' tools
- 38° Helix with either round or Weldon style shank

MADE IN THE USA



				Round Shank		Weldon Shank	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/8	1/8	1/2	1-1/2	**DD4063139**	Price	-	-
3/8	3/8	7/8	2-1/2	**DD4063148**	Price	**DD4063176**	Price
1/2	1/2	1	3	**DD4063152**	Price	**DD4063180**	Price
1/2	1/2	1-1/4	3	**DD4063153**	Price	**DD4063181**	Price
3/16	3/16	5/8	2	**DD4063142**	Price	-	-
1/4	1/4	3/4	2-1/2	**DD4063144**	Price	-	-
3/4	3/4	1-1/2	4	**DD4063156**	Price	-	-

enDURO® M525 Solid Carbide 5 Flute Variable Index End Mills





Square End and Corner Radius Styles

- Advanced cutting edge design for higher metal removal rates in hard to machine materials
- Unique vibration dampening geometry for maximum tool stability and longer tool life
- Specifically designed to run wet or dry on today's high speed, high-efficiency machines
- Round shank
- 40° Helix, AlCrN-X coated

Great for HEM

				.015		.030		.060		None	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	1/4	1-1/2	DD4065002	Price	-	-	-	-	DD4065001	Price
1/8	1/8	1/2	1-1/2	DD4065006	Price	-	-	-	-	DD4065005	Price
1/8	1/8	3/4	2-1/2	DD4065010	Price	-	-	-	-	DD4065009	Price
3/16	3/16	5/16	2	DD4065014	Price	-	-	-	-	DD4065013	Price
3/16	3/16	9/16	2	DD4065018	Price	-	-	-	-	DD4065017	Price
3/16	3/16	3/4	2-1/2	DD4065022	Price	-	-	-	-	DD4065021	Price
1/4	1/4	3/8	2	DD4065026	Price	DD4065027	Price	-	-	DD4065025	Price
1/4	1/4	3/4	2-1/2	DD4065050	Price	DD4065051	Price	DD4065052	Price	DD4065049	Price
1/4	1/4	1-1/8	3	DD4065056	Price	DD4065057	Price	-	-	DD4065055	Price
5/16	5/16	7/16	2	DD4065062	Price	DD4065063	Price	DD4065064	Price	DD4065061	Price
5/16	5/16	13/16	2-1/2	DD4065068	Price	DD4065069	Price	DD4065070	Price	DD4065067	Price
5/16	5/16	1-1/4	3	DD4065074	Price	DD4065075	Price	DD4065076	Price	DD4065073	Price
5/16	5/16	2-1/8	4	DD4065080	Price	DD4065081	Price	DD4065082	Price	DD4065079	Price
3/8	3/8	1/2	2	DD4065086	Price	DD4065087	Price	-	-	DD4065085	Price
3/8	3/8	1	2-1/2	DD4065134	Price	DD4065135	Price	DD4065136	Price	DD4065133	Price
3/8	3/8	1-1/4	3	DD4065142	Price	DD4065143	Price	-	-	DD4065141	Price
3/8	3/8	2	4	DD4065174	Price	DD4065175	Price	DD4065176	Price	DD4065173	Price
7/16	7/16	1	2-3/4	DD4065198	Price	DD4065199	Price	-	-	DD4065197	Price
1/2	1/2	5/8	2-1/2	DD4065214	Price	DD4065215	Price	DD4065216	Price	DD4065213	Price
1/2	1/2	1	3	DD4065259	Price	DD4065260	Price	DD4065261	Price	DD4065258	Price
1/2	1/2	1-1/4	3	DD4065268	Price	DD4065269	Price	DD4065270	Price	DD4065267	Price
1/2	1/2	2-1/8	4	DD4065295	Price	DD4065296	Price	DD4065297	Price	DD4065294	Price
1/2	1/2	2-5/8	5	DD4065304	Price	DD4065305	Price	DD4065306	Price	DD4065303	Price
1/2	1/2	3-1/4	6	DD4065313	Price	DD4065314	Price	DD4065315	Price	DD4065312	Price
5/8	5/8	3/4	3	DD4065322	Price	DD4065323	Price	DD4065324	Price	DD4065321	Price
5/8	5/8	1-5/8	3-1/2	DD4065362	Price	DD4065363	Price	DD4065364	Price	DD4065361	Price
5/8	5/8	2-1/8	4	DD4065372	Price	DD4065373	Price	DD4065374	Price	DD4065371	Price
5/8	5/8	2-5/8	5	DD4065392	Price	DD4065393	Price	DD4065394	Price	DD4065391	Price
5/8	5/8	3-1/4	6	DD4065402	Price	DD4065403	Price	DD4065404	Price	DD4065401	Price
3/4	3/4	1	3	DD4065422	Price	DD4065423	Price	DD4065424	Price	DD4065421	Price
3/4	3/4	1-5/8	4	DD4065462	Price	DD4065463	Price	DD4065464	Price	DD4065461	Price
3/4	3/4	2-3/8	5	DD4065472	Price	DD4065473	Price	DD4065474	Price	DD4065471	Price
3/4	3/4	3-1/4	6	DD4065492	Price	DD4065493	Price	DD4065494	Price	DD4065491	Price
3/4	3/4	4-1/8	7	DD4065502	Price	DD4065503	Price	DD4065504	Price	DD4065501	Price
1	1	1-3/4	4	DD4065556	Price	DD4065557	Price	DD4065558	Price	DD4065555	Price
1	1	2-5/8	5	DD4065567	Price	DD4065568	Price	DD4065569	Price	DD4065566	Price
1	1	3-1/4	6	DD4065589	Price	DD4065590	Price	DD4065591	Price	DD4065588	Price

enDURO® M525N Solid Carbide 5 Flute Variable Index End Mills

MADE IN THE USA

Square End and Corner Radius Styles with Neck Relief

- Neck relief permits clearance in deeper cavities
- Short flute length for for increased stability of the end mill in the cut
- Amazing corner strength for longer tool life in hard metals
- Round shank
- 40° Helix, AlCrN-X coated

Great for HEM





					.015		.030		None	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	Reach (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/4	1/4	3/8	1-3/8	3	DD4065687	Price	DD4065688	Price	DD4065686	Price
1/4	1/4	3/8	2-3/8	4	DD4065693	Price	DD4065694	Price	DD4065692	Price
3/8	3/8	1/2	2-3/8	4	DD4065715	Price	DD4065716	Price	DD4065714	Price
1/2	1/2	5/8	2-1/4	4	DD4065748	Price	DD4065749	Price	DD4065747	Price
1/2	1/2	5/8	4-1/4	6	DD4065766	Price	DD4065767	Price	DD4065765	Price
5/8	5/8	3/4	2-1/8	4	-	-	DD4065776	Price	DD4065774	Price
5/8	5/8	3/4	4-1/8	6	-	-	DD4065796	Price	DD4065794	Price
3/4	3/4	1	3-7/8	6	-	-	DD4065826	Price	DD4065824	Price

APC5 POW.R.PATH 5 Flute End Mills

Square End and Corner Radius for High Efficiency Machining (HEM) in Aluminum Alloys

- Benefit from the unique Chip Management System (CMS)
- CMS breaks up long, stringy chips, which eliminates recutting chips and chip packing and allows for deep, free cutting tool movement in aluminum
- The results are great chip control and very high metal removal rates



Size (in.)	Shank Dia. (in.)	Max Axial Depth xD	LOC (in.)	OAL (in.)	Radius (in.)	Order No.	Price
3/8	3/8	3xD	1-1/8	3	None	**DD4461420**	Price
3/8	3/8	3xD	1-1/8	3	.015	**DD4461421**	Price
3/8	3/8	4xD	1-1/2	3-1/2	None	**DD4461422**	Price
3/8	3/8	4xD	1-1/2	3-1/2	.015	**DD4461423**	Price
1/2	1/2	2.5xD	1-1/4	3-1/4	None	**DD4461424**	Price
1/2	1/2	2.5xD	1-1/4	3-1/4	.030	**DD4461425**	Price
1/2	1/2	3xD	1-1/2	3-1/2	None	**DD4461426**	Price
1/2	1/2	3xD	1-1/2	3-1/2	.030	**DD4461427**	Price
1/2	1/2	3.5xD	1-3/4	4	None	**DD4461428**	Price
1/2	1/2	3.5xD	1-3/4	4	.030	**DD4461429**	Price
1/2	1/2	4xD	2	4	None	**DD4461430**	Price
1/2	1/2	4xD	2	4	.030	**DD4461431**	Price
5/8	5/8	2xD	1-1/4	3-1/2	None	**DD4461432**	Price

Size (in.)	Shank Dia. (in.)	Max Axial Depth xD	LOC (in.)	OAL (in.)	Radius (in.)	Order No.	Price
5/8	5/8	2xD	1-1/4	3-1/2	.030	**DD4461433**	Price
5/8	5/8	3xD	1-7/8	4	None	**DD4461434**	Price
5/8	5/8	3xD	1-7/8	4	.030	**DD4461435**	Price
5/8	5/8	4xD	2-1/2	5	None	**DD4461436**	Price
5/8	5/8	4xD	2-1/2	5	.030	**DD4461437**	Price
3/4	3/4	2.5xD	1-7/8	4-1/2	None	**DD4461438**	Price
3/4	3/4	2.5xD	1-7/8	4-1/2	.030	**DD4461439**	Price
3/4	3/4	3xD	2-1/4	5	None	**DD4461440**	Price
3/4	3/4	3xD	2-1/4	5	.030	**DD4461441**	Price
3/4	3/4	3.5xD	2-5/8	5	None	**DD4461442**	Price
3/4	3/4	3.5xD	2-5/8	5	.030	**DD4461443**	Price
3/4	3/4	4xD	3	6	None	**DD4461444**	Price
3/4	3/4	4xD	3	6	.030	**DD4461445**	Price

5 Flute Variable Solid Carbide End Mills

Eccentric OD

- Silver-Exx® (AlTiCrN) coated
- 35° Helix
- PCT List #558



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Reach (in.)	Order No.	Price
1/4	1/4	3/8	4	2-1/8	**CW8023910**	Price
1/4	1/4	1/2	2	-	**CW800558T804002**	Price
1/4	1/4	3/4	2-1/2	-	**CW80558T847525**	Price
1/4	1/4	1	3	-	**CW8058T80410003**	Price
5/16	5/16	1/2	2	-	**CW8058T80505002**	Price
5/16	5/16	1	3	-	**CW8023955**	Price
3/8	3/8	1/2	2	-	**CW800558T806052**	Price
3/8	3/8	1/2	3	1-1/8	**CW8023980**	Price
3/8	3/8	1/2	4	2-1/8	**CW8023990**	Price
3/8	3/8	1	2-1/2	-	**CW8055530**	Price
3/8	3/8	1	3	-	**CW8024005**	Price
7/16	7/16	1	2-3/4	-	**CW8024020**	Price
1/2	1/2	5/8	2-1/2	-	**CW80558T8862525**	Price
1/2	1/2	5/8	4	2-1/8	**CW8024055**	Price
1/2	1/2	5/8	6	3-3/8	**CW8024065**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Reach (in.)	Order No.	Price
1/2	1/2	1-1/4	3	-	**CW8080812503**	Price
1/2	1/2	2	4	-	**CW800558T808204**	Price
5/8	5/8	3/4	3	-	**CW8055540**	Price
5/8	5/8	3/4	4	1-5/8	**CW8024110**	Price
5/8	5/8	3/4	6	3-3/8	**CW8024130**	Price
5/8	5/8	1-5/8	3-1/2	-	**CW80558T862535**	Price
3/4	3/4	1	3	-	**CW80558T823**	Price
3/4	3/4	1	4	2	**CW800558T812142**	Price
3/4	3/4	1	6	4	**CW8024185**	Price
3/4	3/4	1-5/8	4	-	**CW8058T81216254**	Price
3/4	3/4	2-1/4	5	-	**CW8055910**	Price
1	1	1-1/4	6	3-3/8	**CW8024245**	Price
1	1	1-1/4	7	4-3/8	**CW8024255**	Price
1	1	2	4-1/2	-	**CW8024265**	Price
1	1	2-1/4	5	-	**CW8024275**	Price

APT5N POW.R.PATH 5 Flute End Mills

Square End and Corner Radius W/ Neck Relief for High Efficiency Machining (HEM) in Aluminum Alloys

- Added neck shank to offer a high performance tool that permits clearance in deeper cavities and easier machining against tight walls
- Neck relief and short flute length combine to increase end mill stability in the cut for more precise tolerances
- Great for work in pockets



Size (in.)	Shank Dia. (in.)	LOC (in.)	Reach (in.)	OAL (in.)	Radius (in.)	Order No.	Price
1/4	1/4	3/8	7/8	2-1/2	None	**DD4461609**	Price
1/4	1/4	3/8	7/8	2-1/2	.030	**DD4461611**	Price
1/4	1/4	3/8	7/8	2-1/2	.060	**DD4461612**	Price
1/4	1/4	3/8	1-3/8	3	None	**DD4461613**	Price
1/4	1/4	3/8	1-3/8	3	.030	**DD4461615**	Price
1/4	1/4	3/8	1-3/8	3	.060	**DD4461616**	Price
1/4	1/4	3/8	2-1/4	4	None	**DD4461617**	Price
1/4	1/4	3/8	2-1/4	4	.030	**DD4461619**	Price
3/8	3/8	9/16	1-1/16	2-1/2	None	**DD4461620**	Price
3/8	3/8	9/16	1-1/16	2-1/2	.030	**DD4461622**	Price
3/8	3/8	9/16	1-1/16	2-1/2	.060	**DD4461623**	Price
3/8	3/8	9/16	1-1/8	3	None	**DD4461625**	Price
3/8	3/8	9/16	1-1/8	3	.030	**DD4461627**	Price
3/8	3/8	9/16	1-1/8	3	.060	**DD4461628**	Price
3/8	3/8	9/16	2-3/16	4	None	**DD4461630**	Price
3/8	3/8	9/16	2-3/16	4	.030	**DD4461632**	Price
1/2	1/2	3/4	1-1/4	3	None	**DD4461633**	Price
1/2	1/2	3/4	1-1/4	3	.030	**DD4461635**	Price
1/2	1/2	3/4	1-1/4	3	.060	**DD4461636**	Price
1/2	1/2	3/4	1-1/4	3	.125	**DD4461638**	Price
1/2	1/2	3/4	2-1/8	4	None	**DD4461639**	Price
1/2	1/2	3/4	2-1/8	4	.030	**DD4461641**	Price
1/2	1/2	3/4	2-1/8	4	.060	**DD4461642**	Price
1/2	1/2	3/4	2-1/8	4	.125	**DD4461644**	Price
1/2	1/2	3/4	3-1/8	5	None	**DD4461645**	Price
1/2	1/2	3/4	3-1/8	5	.030	**DD4461647**	Price
1/2	1/2	3/4	3-1/8	5	.060	**DD4461648**	Price
1/2	1/2	3/4	3-1/8	5	.125	**DD4461650**	Price
1/2	1/2	3/4	4-1/8	6	None	**DD4461651**	Price

Size (in.)	Shank Dia. (in.)	LOC (in.)	Reach (in.)	OAL (in.)	Radius (in.)	Order No.	Price
1/2	1/2	3/4	4-1/8	6	.030	**DD4461653**	Price
1/2	1/2	3/4	4-1/8	6	.060	**DD4461654**	Price
1/2	1/2	3/4	4-1/8	6	.125	**DD4461655**	Price
5/8	5/8	15/16	1-9/16	4	None	**DD4461656**	Price
5/8	5/8	15/16	1-9/16	4	.030	**DD4461657**	Price
5/8	5/8	15/16	1-9/16	4	.060	**DD4461658**	Price
5/8	5/8	15/16	1-9/16	4	.125	**DD4461660**	Price
5/8	5/8	15/16	2-3/16	5	None	**DD4461661**	Price
5/8	5/8	15/16	2-3/16	5	.030	**DD4461662**	Price
5/8	5/8	15/16	2-3/16	5	.060	**DD4461663**	Price
5/8	5/8	15/16	2-3/16	5	.125	**DD4461665**	Price
5/8	5/8	15/16	3-3/16	6	None	**DD4461666**	Price
5/8	5/8	15/16	3-3/16	6	.030	**DD4461667**	Price
5/8	5/8	15/16	3-3/16	6	.125	**DD4461668**	Price
3/4	3/4	1-1/8	1-5/8	4	None	**DD4461669**	Price
3/4	3/4	1-1/8	1-5/8	4	.030	**DD4461670**	Price
3/4	3/4	1-1/8	1-5/8	4	.060	**DD4461671**	Price
3/4	3/4	1-1/8	1-5/8	4	.125	**DD4461673**	Price
3/4	3/4	1-1/8	2-1/4	5	None	**DD4461675**	Price
3/4	3/4	1-1/8	2-1/4	5	.030	**DD4461676**	Price
3/4	3/4	1-1/8	2-1/4	5	.060	**DD4461677**	Price
3/4	3/4	1-1/8	2-1/4	5	.125	**DD4461679**	Price
3/4	3/4	1-1/8	3-1/4	6	None	**DD4461681**	Price
3/4	3/4	1-1/8	3-1/4	6	.030	**DD4461682**	Price
3/4	3/4	1-1/8	3-1/4	6	.060	**DD4461683**	Price
3/4	3/4	1-1/8	3-1/4	6	.125	**DD4461684**	Price

POW•R•FEED® M905 Solid Carbide 5 Flute Variable Index End Mill

MADE IN THE USA

Square End and Corner Radius Styles

- Well known for its power, balance, and versatility in a wide range of materials
- Unique vibration dampening geometry for chatter-free machining
- 38° Helix with either round and Weldon style shank
- AlTiN-X coating





					Round Shank	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price
1/4	1/4	3/4	2-1/2	None	**DD4063338**	Price
1/4	1/4	3/4	2-1/2	.015	**DD4063287**	Price
3/8	3/8	7/8	2-1/2	None	**DD4063340**	Price
3/8	3/8	7/8	2-1/2	.015	**DD4063289**	Price
3/8	3/8	7/8	2-1/2	.030	**DD4063370**	Price
1/2	1/2	1-1/4	3	None	**DD4063342**	Price
1/2	1/2	1-1/4	3	.030	**DD4063291**	Price
5/8	5/8	1-1/4	3-1/2	None	**DD4063343**	Price
5/8	5/8	1-1/4	3-1/2	.030	**DD4063292**	Price
3/4	3/4	1-1/2	4	None	**DD4063344**	Price
3/4	3/4	1-1/2	4	.030	**DD4063293**	Price

RAPIDKUT® 5 Flute Solid Carbide 45° Helix End Mills

Center Cutting

- Five flute design provides excellent cutting performance at faster feed rates
- Smooth cutting action in tough to machine material with excellent chip ejection
- Made from premium submicron grain carbide
- Cutting diameter tolerance: +.000/.002”



				Uncoated		AlTiN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/8	1/8	1/4	1-1/2	**DD8117698**	Price	**DD8157698**	Price
1/8	1/8	1/2	1-1/2	**DD8115942**	Price	**DD8155942**	Price
5/32	3/16	5/16	2	**DD8117699**	Price	**DD8157699**	Price
5/32	3/16	9/16	2	**DD8115943**	Price	**DD8155943**	Price
3/16	3/16	5/16	2	**DD8117700**	Price	**DD8157700**	Price
3/16	3/16	9/16	2	**DD8115944**	Price	**DD8155944**	Price
7/32	1/4	3/8	2	**DD8117701**	Price	**DD8157701**	Price
7/32	1/4	3/4	2-1/2	**DD8115945**	Price	**DD8155945**	Price
1/4	1/4	3/8	2	**DD8117702**	Price	**DD8157702**	Price
1/4	1/4	3/4	2-1/2	**DD8115946**	Price	**DD8155946**	Price
1/4	1/4	1-1/2	4	**DD8115947**	Price	**DD8155947**	Price
5/16	5/16	7/16	2	**DD8117703**	Price	**DD8157703**	Price
5/16	5/16	13/16	2-1/2	**DD8115948**	Price	**DD8155948**	Price
3/8	3/8	1/2	2	**DD8117704**	Price	**DD8157704**	Price
3/8	3/8	1	2-1/2	**DD8115949**	Price	**DD8155949**	Price
3/8	3/8	1-3/4	4	**DD8115950**	Price	**DD8155950**	Price

				Uncoated		AlTiN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price
13/32	7/16	9/16	2-1/2	**DD8110739**	Price	**DD8150739**	Price
7/16	7/16	9/16	2-1/2	**DD8117705**	Price	**DD8157705**	Price
7/16	7/16	1	2-3/4	**DD8115951**	Price	**DD8155951**	Price
1/2	1/2	5/8	2-1/2	**DD8117706**	Price	**DD8157706**	Price
1/2	1/2	1-1/4	3	**DD8115952**	Price	**DD8155952**	Price
1/2	1/2	3	6	**DD8115953**	Price	**DD8155953**	Price
9/16	9/16	1-1/2	3-1/2	**DD8115954**	Price	**DD8155954**	Price
5/8	5/8	3/4	3	**DD8117707**	Price	**DD8157707**	Price
5/8	5/8	1-5/8	3-1/2	**DD8115955**	Price	**DD8155955**	Price
5/8	5/8	3	6	**DD8111203**	Price	**DD8151203**	Price
3/4	3/4	1	3	**DD8117708**	Price	**DD8157708**	Price
3/4	3/4	1-5/8	4	**DD8115956**	Price	**DD8155956**	Price
3/4	3/4	3	6	**DD8115957**	Price	**DD8155957**	Price
1	1	1-1/4	3	**DD8117709**	Price	**DD8157709**	Price
1	1	1-1/2	4	**DD8115958**	Price	**DD8155958**	Price
1	1	3	6	**DD8115959**	Price	**DD8155959**	Price

MICRO 100 High Tech End Mills

5 Flute — Center Cutting — 45° Helix

- Feature a 45° helix for finishing, roughing, and slotting in medium to hard steels, stainless steels, and high temperature alloys
- Higher metal removal rates as well as excellent finishes are achieved with these 5 flute end mills
- 45° helix diminishes chatter when machining in corners of parts



Length - Stub					
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
3/16	3/16	3/8	1-1/2	**GE45ASM1875**	Price
1/4	1/4	1/2	2	**GE45ASM2505**	Price
5/16	5/16	1/2	2	**GE45ASM3125**	Price

Length - Standard					
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
3/16	3/16	5/8	2	**GE45ARM1875**	Price
1/4	1/4	3/4	2-1/2	**GE45ARM2505**	Price
1/2	1/2	1	3	**GE45ARM5005†**	Price

† Sizes 3/8” and larger feature weldon flat

5 Flute High Performance Carbide End Mills

Unequal Index • Corner Radius

- 40° Helix
- Maximum material removal and feed rates
- Smoother cutting action, reduces vibrations
- Solid C2 grade sub-micron grade carbide with 10% cobalt
- Right hand spiral, right hand cut
- AlTiN coated
- Diameter tolerance +.000/ -.002”



Size (in.)	Shank Dia. (in.)	LOC (in.)	OAL (in.)	Radius	Order No.	Price
1/8	1/8	1/4	2-1/2	.005-.010	**DC25295010125B**	Price
1/8	1/8	1/2	2-1/2	.005-.010	**DC25295020125B**	Price
3/16	3/16	3/8	2-1/2	.005-.010	**DC25295010187B**	Price
3/16	3/16	5/8	2-1/2	.005-.010	**DC25295020187B**	Price
1/4	1/4	3/8	2-1/2	.010-.020	**DC25295010250B**	Price
1/4	1/4	3/4	2-1/2	.010-.020	**DC25295020250B**	Price
1/4	1/4	1-1/4	4	.010-.020	**DC25295030250B**	Price
5/16	5/16	1/2	2-1/2	.010-.020	**DC25295010312B**	Price
5/16	5/16	13/16	2-1/2	.010-.020	**DC25295020312B**	Price
5/16	5/16	1-1/4	4	.010-.020	**DC25295030312B**	Price
3/8	3/8	1/2	2-1/2	.010-.020	**DC25295010375B**	Price
3/8	3/8	1	2-1/2	.010-.020	**DC25295020375B**	Price
3/8	3/8	1-1/2	4	.010-.020	**DC25295030375B**	Price

Size (in.)	Shank Dia. (in.)	LOC (in.)	OAL (in.)	Radius	Order No.	Price
1/2	1/2	5/8	3	.010-.020	**DC25295010500B**	Price
1/2	1/2	1-1/4	3	.010-.020	**DC25295020500B**	Price
1/2	1/2	1-5/8	4	.010-.020	**DC25295030490B**	Price
1/2	1/2	2-1/8	4	.010-.020	**DC25295030500B**	Price
5/8	5/8	3/4	3-1/2	.010-.020	**DC25295010625B**	Price
5/8	5/8	1-1/4	3-1/2	.010-.020	**DC25295020625B**	Price
5/8	5/8	2-1/2	5	.010-.020	**DC25295030625B**	Price
3/4	3/4	1	4	.010-.020	**DC25295010750B**	Price
3/4	3/4	1-5/8	4	.010-.020	**DC25295020750B**	Price
3/4	3/4	2-1/2	5	.010-.020	**DC25295030750B**	Price
1	1	1-3/4	4	.010-.020	**DC25295021000B**	Price
1	1	2-5/8	6	.010-.020	**DC25295031000B**	Price

TuffCut® XR HP 5 Flute ALtima® Coated End Mills

Center Cutting • Fractional Sizes • 38° Helix

- Designed for extreme productivity
- Gain 20% or more in productivity over 4 flute styles
- Smooth cutting action to eliminate vibration
- M.A. Ford Series #178



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price
1/8	1/8	1/8	1-1/2	None	**DD1517800**	Price
1/8	1/8	3/8	1-1/2	None	**DD1617801**	Price
5/32	3/16	3/16	2	None	**DD1617802**	Price
5/32	3/16	7/16	2	None	**DD1617803**	Price
7/32	1/4	1/4	2	None	**DD1617806**	Price
7/32	1/4	7/16	2-1/2	None	**DD1617807**	Price
3/16	3/16	3/16	2	None	**DD1517804**	Price
3/16	3/16	7/16	2	None	**DD1517805**	Price
1/4	1/4	3/8	2	None	**DD1517808**	Price
1/4	1/4	3/8	2	.015	**DD1617829**	Price
1/4	1/4	3/8	2	.030	**DD1617830**	Price
1/4	1/4	5/8	2-1/2	None	**DD1617809**	Price
1/4	1/4	5/8	2-1/2	.015	**DD1617831**	Price
1/4	1/4	5/8	2-1/2	.030	**DD1617832**	Price
9/32	5/16	5/8	2-1/2	None	**DD1517810**	Price
9/32	5/16	5/8	2-1/2	.015	**DD1617835**	Price
9/32	5/16	5/8	2-1/2	.030	**DD1617836**	Price
5/16	5/16	7/16	2	None	**DD1517811**	Price
5/16	5/16	7/16	2	.015	**DD1617837**	Price
5/16	5/16	7/16	2	.030	**DD1617838**	Price
5/16	5/16	13/16	2-1/2	None	**DD1517812**	Price
5/16	5/16	13/16	2-1/2	.015	**DD1617839**	Price
5/16	5/16	13/16	2-1/2	.030	**DD1517840**	Price
11/32	3/8	13/16	2-1/2	.015	**DD1617843**	Price
11/32	3/8	13/16	2-1/2	.030	**DD1617844**	Price
11/32	3/8	13/16	2-1/2	None	**DD1617813**	Price
3/8	3/8	1/2	2	None	**DD1617814**	Price
3/8	3/8	1/2	2	.015	**DD1517845**	Price
3/8	3/8	1/2	2	.030	**DD1517846**	Price
3/8	3/8	7/8	2-1/2	None	**DD1517815**	Price
3/8	3/8	7/8	2-1/2	.015	**DD1517847**	Price
3/8	3/8	7/8	2-1/2	.030	**DD1617848**	Price
13/32	7/16	7/8	2-3/4	None	**DD1617816**	Price
13/32	7/16	7/8	2-3/4	.015	**DD1617853**	Price
13/32	7/16	7/8	2-3/4	.030	**DD1617854**	Price
7/16	7/16	9/16	2-1/2	None	**DD1617817**	Price
7/16	7/16	9/16	2-1/2	.015	**DD1617855**	Price
7/16	7/16	9/16	2-1/2	.030	**DD1617856**	Price
7/16	7/16	1	2-3/4	None	**DD1517818**	Price
7/16	7/16	1	2-3/4	.015	**DD1617857**	Price
7/16	7/16	1	2-3/4	.030	**DD1617858**	Price
15/32	1/2	1	3	None	**DD1617819**	Price
15/32	1/2	1	3	.015	**DD1617863**	Price

Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price
15/32	1/2	1	3	.030	**DD1617864**	Price
1/2	1/2	5/8	2-1/2	None	**DD1517820**	Price
1/2	1/2	5/8	2-1/2	.015	**DD1517865**	Price
1/2	1/2	5/8	2-1/2	.030	**DD1517866**	Price
1/2	1/2	1	3	None	**DD1617821**	Price
1/2	1/2	1	3	.015	**DD1617867**	Price
1/2	1/2	1	3	.030	**DD1517868**	Price
1/2	1/2	1	3	.045	**DD1617869**	Price
1/2	1/2	1	3	.060	**DD1517913**	Price
1/2	1/2	1	3	.090	**DD1617914**	Price
1/2	1/2	1	3	.125	**DD1617915**	Price
9/16	9/16	1-1/8	3-1/2	None	**DD1617822**	Price
9/16	9/16	1-1/8	3-1/2	.015	**DD1617875**	Price
9/16	9/16	1-1/8	3-1/2	.030	**DD1617876**	Price
5/8	5/8	3/4	3	None	**DD1617823**	Price
5/8	5/8	3/4	3	.015	**DD1518006**	Price
5/8	5/8	3/4	3	.030	**DD1617877**	Price
5/8	5/8	3/4	3	.045	**DD1617878**	Price
5/8	5/8	1-1/4	3-1/2	None	**DD1617824**	Price
5/8	5/8	1-1/4	3-1/2	.015	**DD1618007**	Price
5/8	5/8	1-1/4	3-1/2	.030	**DD1617879**	Price
5/8	5/8	1-1/4	3-1/2	.045	**DD1617880**	Price
5/8	5/8	1-1/4	3-1/2	.060	**DD1617916**	Price
5/8	5/8	1-1/4	3-1/2	.090	**DD1617917**	Price
5/8	5/8	1-1/4	3-1/2	.125	**DD1617918**	Price
3/4	3/4	1	3	None	**DD1617825**	Price
3/4	3/4	1	3	.015	**DD1618011**	Price
3/4	3/4	1	3	.030	**DD1617887**	Price
3/4	3/4	1	3	.045	**DD1617888**	Price
3/4	3/4	1-1/2	4	None	**DD1617826**	Price
3/4	3/4	1-1/2	4	.015	**DD1618012**	Price
3/4	3/4	1-1/2	4	.030	**DD1617889**	Price
3/4	3/4	1-1/2	4	.045	**DD1617890**	Price
3/4	3/4	1-1/2	4	.060	**DD1517919**	Price
3/4	3/4	1-1/2	4	.090	**DD1617920**	Price
3/4	3/4	1-1/2	4	.125	**DD1617921**	Price
1	1	1	4	None	**DD1617827**	Price
1	1	1-1/2	4	None	**DD1617828**	Price
1	1	1-1/2	4	.015	**DD1618015**	Price
1	1	1-1/2	4	.030	**DD1617895**	Price
1	1	1-1/2	4	.045	**DD1617896**	Price
1	1	1-1/2	4	.060	**DD1617922**	Price
1	1	1-1/2	4	.090	**DD1617923**	Price
1	1	1-1/2	4	.125	**DD1617924**	Price

WIDIA High Performance Solid Carbide VariMill II™ End Mills

5 Flute • AlTiN Coated



- Unequal flute spacing
- 38° Helix
- Center cutting
- Single tool for both roughing and finishing operations requiring fewer setups
- Slotting up to 1 x D

Size (in.)	Shank Dia. (in.)	LOC (in.)	OAL (in.)	Radius (in.)	Shank	Order No.	Price
3/16	3/16	5/8	2-1/4	None	Round	**WK405577053**	Price
3/16	3/16	5/8	2-1/4	.015	Round	**WK405577051**	Price
3/16	3/16	5/8	2-1/4	.030	Round	**WK405577052**	Price
1/4	1/4	3/4	2-1/2	None	Round	**WK405577057**	Price
1/4	1/4	3/4	2-1/2	.015	Round	**WK405577054**	Price
1/4	1/4	3/4	2-1/2	.030	Round	**WK405577055**	Price
1/4	1/4	3/4	2-1/2	.060	Round	**WK405577056**	Price
5/16	5/16	3/4	2-1/2	None	Round	**WK405577101**	Price
5/16	5/16	3/4	2-1/2	.015	Round	**WK405577058**	Price
5/16	5/16	3/4	2-1/2	.030	Round	**WK405577059**	Price
5/16	5/16	3/4	2-1/2	.060	Round	**WK405577100**	Price
3/8	3/8	7/8	2-1/2	None	Round	**WK405577105**	Price
3/8	3/8	7/8	2-1/2	.015	Round	**WK405577102**	Price
3/8	3/8	7/8	2-1/2	.030	Round	**WK405577103**	Price
3/8	3/8	7/8	2-1/2	.060	Round	**WK405577104**	Price
1/2	1/2	1-1/4	3	None	Round	**WK405577116**	Price
1/2	1/2	1-1/4	3	None	Weldon	**WK405577117**	Price
1/2	1/2	1-1/4	3	.015	Round	**WK405577106**	Price
1/2	1/2	1-1/4	3	.015	Weldon	**WK405577107**	Price
1/2	1/2	1-1/4	3	.030	Round	**WK405577108**	Price
1/2	1/2	1-1/4	3	.030	Weldon	**WK405577109**	Price
1/2	1/2	1-1/4	3	.060	Round	**WK405577110**	Price

Size (in.)	Shank Dia. (in.)	LOC (in.)	OAL (in.)	Radius (in.)	Shank	Order No.	Price
1/2	1/2	1-1/4	3	.060	Weldon	**WK405577111**	Price
1/2	1/2	1-1/4	3	.090	Round	**WK405577112**	Price
1/2	1/2	1-1/4	3	.090	Weldon	**WK405577113**	Price
1/2	1/2	1-1/4	3	.120	Round	**WK405577114**	Price
5/8	5/8	1-1/4	3-1/2	None	Round	**WK405577134**	Price
5/8	5/8	1-1/4	3-1/2	None	Weldon	**WK405577135**	Price
5/8	5/8	1-1/4	3-1/2	.030	Round	**WK405577118**	Price
5/8	5/8	1-1/4	3-1/2	.030	Weldon	**WK405577119**	Price
5/8	5/8	1-1/4	3-1/2	.060	Weldon	**WK405577131**	Price
3/4	3/4	1-1/2	4	None	Round	**WK405577164**	Price
3/4	3/4	1-1/2	4	None	Weldon	**WK405577165**	Price
3/4	3/4	1-1/2	4	.030	Round	**WK405577136**	Price
3/4	3/4	1-1/2	4	.030	Weldon	**WK405577137**	Price
3/4	3/4	1-1/2	4	.060	Round	**WK405577138**	Price
3/4	3/4	1-1/2	4	.060	Weldon	**WK405577139**	Price
3/4	3/4	1-1/2	4	.090	Weldon	**WK405577161**	Price
3/4	3/4	1-1/2	4	.120	Round	**WK405577162**	Price
3/4	3/4	1-1/2	4	.120	Weldon	**WK405577163**	Price
1	1	1-3/4	4-1/2	None	Weldon	**WK405577185**	Price
1	1	1-3/4	4-1/2	.030	Round	**WK405577166**	Price
1	1	1-3/4	4-1/2	.030	Weldon	**WK405577167**	Price
1	1	1-3/4	4-1/2	.120	Weldon	**WK405577183**	Price

WIDIA High Performance Solid Carbide VariMill II™ ER End Mills



5 Flute • AlTiN Coated

- Unequal flute spacing
- 38° Helix
- Center cutting
- Single tool for both roughing and finishing operations requiring fewer setups
- Slotting up to 1 x D

Size (in.)	Shank Dia. (in.)	LOC (in.)	OAL (in.)	Radius (in.)	Shank	Order No.	Price
3/16	3/16	9/16	2	None	Round	**WK406146486**	Price
3/16	3/16	9/16	2	.015	Round	**WK406146487**	Price
1/4	1/4	3/4	2-1/2	None	Round	**WK406146526**	Price
1/4	1/4	3/4	2-1/2	.015	Round	**WK406146528**	Price
1/4	1/4	3/4	2-1/2	.030	Round	**WK406146529**	Price
1/4	1/4	3/4	2-1/2	.060	Round	**WK406146530**	Price
5/16	5/16	13/16	2-1/2	None	Round	**WK406146535**	Price
5/16	5/16	13/16	2-1/2	.015	Round	**WK406146536**	Price
3/8	3/8	7/8	2-1/2	None	Round	**WK405594859**	Price
3/8	3/8	7/8	2-1/2	.030	Round	**WK405594858**	Price
3/8	3/8	7/8	2-1/2	.015	Round	**WK405594857**	Price
3/8	3/8	1	2-1/2	None	Round	**WK406146544**	Price
3/8	3/8	1	2-1/2	.015	Round	**WK406146545**	Price
3/8	3/8	1	2-1/2	.030	Round	**WK406146546**	Price
3/8	3/8	1	2-1/2	.060	Round	**WK406146547**	Price
3/8	3/8	1	2-1/2	.120	Round	**WK406146548**	Price
1/2	1/2	1-1/4	3	None	Round	**WK406146567**	Price
1/2	1/2	1-1/4	3	None	Weldon	**WK405594871**	Price
1/2	1/2	1-1/4	3	None	Safe-Lock	**WK405594870**	Price
1/2	1/2	1-1/4	3	.015	Round	**WK406146562**	Price
1/2	1/2	1-1/4	3	.015	Weldon	**WK405594861**	Price
1/2	1/2	1-1/4	3	.015	Safe-Lock	**WK405594860**	Price
1/2	1/2	1	3	.030	Round	**WK406146558**	Price
1/2	1/2	1-1/4	3	.030	Round	**WK406146563**	Price
1/2	1/2	1-1/4	3	.030	Weldon	**WK405594863**	Price
1/2	1/2	1-1/4	3	.030	Safe-Lock	**WK405594862**	Price
1/2	1/2	1-1/4	3	.060	Round	**WK406146564**	Price
1/2	1/2	1-1/4	3	.060	Weldon	**WK405594865**	Price
1/2	1/2	1-1/4	3	.060	Safe-Lock	**WK405594864**	Price
1/2	1/2	1-1/4	3	.120	Round	**WK406146566**	Price
1/2	1/2	1-1/4	3	.120	Weldon	**WK405594869**	Price

Size (in.)	Shank Dia. (in.)	LOC (in.)	OAL (in.)	Radius (in.)	Shank	Order No.	Price
1/2	1/2	1-1/4	3	.120	Safe-Lock	**WK405594868**	Price
5/8	5/8	1-1/4	3-1/2	None	Weldon	**WK405594877**	Price
5/8	5/8	1-1/4	3-1/2	None	Safe-Lock	**WK405594876**	Price
5/8	5/8	1-1/4	3-1/2	.030	Weldon	**WK405594873**	Price
5/8	5/8	1-1/4	3-1/2	.030	Safe-Lock	**WK405594872**	Price
5/8	5/8	1-1/4	3-1/2	.060	Weldon	**WK405594875**	Price
5/8	5/8	1-1/4	3-1/2	.060	Safe-Lock	**WK405594874**	Price
5/8	5/8	1-1/4	3-1/2	.120	Round	**WK406146578**	Price
3/4	3/4	1-1/2	4	.250	Weldon	**WK406146590**	Price
3/4	3/4	1-1/2	4	None	Weldon	**WK405594887**	Price
3/4	3/4	1-1/2	4	None	Round	**WK406146594**	Price
3/4	3/4	1-1/2	4	None	Safe-Lock	**WK405594886**	Price
3/4	3/4	1-1/2	4	.030	Round	**WK406146591**	Price
3/4	3/4	1-1/2	4	.030	Weldon	**WK405594879**	Price
3/4	3/4	1-1/2	4	.030	Safe-Lock	**WK405594878**	Price
3/4	3/4	1-1/2	4	.060	Round	**WK406146592**	Price
3/4	3/4	1-1/2	4	.060	Weldon	**WK405594881**	Price
3/4	3/4	1-1/2	4	.060	Safe-Lock	**WK405594880**	Price
3/4	3/4	1-1/2	4	.090	Weldon	**WK405594883**	Price
3/4	3/4	1-1/2	4	.120	Round	**WK405594884**	Price
3/4	3/4	1-1/2	4	.120	Weldon	**WK405594885**	Price
3/4	3/4	1-5/8	4	None	Safe-Lock	**WK406146598**	Price
3/4	3/4	1-5/8	4	.030	Safe-Lock	**WK406146595**	Price
3/4	3/4	1-5/8	4	.060	Safe-Lock	**WK406146596**	Price
1	1	1-3/4	4-1/2	None	Safe-Lock	**WK405594896**	Price
1	1	1-3/4	4-1/2	.030	Weldon	**WK405594889**	Price
1	1	1-3/4	4-1/2	.030	Safe-Lock	**WK405594888**	Price
1	1	1-3/4	4-1/2	.060	Safe-Lock	**WK405594890**	Price
1	1	1-3/4	4-1/2	.120	Weldon	**WK405594893**	Price
1	1	1-3/4	4-1/2	.120	Safe-Lock	**WK405594892**	Price

WIDIA High Performance Solid Carbide VariMill II™ ER End Mills

5 Flute • AlTiN Coated

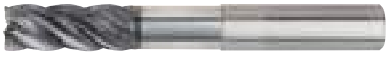


- Unequal flute spacing
- 38° Helix
- Center cutting
- Optimized geometry for titanium and stainless steel
- Single tool for both roughing and finishing operations requiring fewer setups

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Order No.	Price
3/16	3/16	5/16	2	None	**WK406146483**	Price
1/4	1/4	3/8	2	None	**WK406146522**	Price
1/4	1/4	3/8	2	.015	**WK406146523**	Price
1/4	1/4	3/8	2	.030	**WK406146524**	Price
1/4	1/4	3/8	2	.060	**WK406146525**	Price
3/8	3/8	1/2	2	None	**WK406146539**	Price
3/8	3/8	1/2	2	.015	**WK406146540**	Price
3/8	3/8	1/2	2	.030	**WK406146541**	Price
5/8	5/8	3/4	3	.030	**WK406146572**	Price
1/2	1/2	5/8	2-1/2	None	**WK406146557**	Price
1/2	1/2	5/8	2-1/2	.015	**WK406146552**	Price
1/2	1/2	5/8	2-1/2	.030	**WK406146553**	Price
1/2	1/2	5/8	2-1/2	.060	**WK406146554**	Price

WIDIA High Performance Solid Carbide VariMill II™ End Mills with Neck

5 Flute • AlTiN Coated



- 38° Helix
- Unequal flute spacing
- Center cutting
- Single tool for both roughing and finishing operations requiring fewer setups
- Slotting up to 1 x D

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Neck Dia. (in.)	Length Below Shank	Shank Type	Order No.	Price
3/8	3/8	7/8	4	.015	.3525	1-7/8	Round	**WK405594728**	Price
1/2	1/2	1-1/4	4	.030	.4700	2-1/4	Round	**WK405594729**	Price
1/2	1/2	1-1/4	4	.030	.4700	2-1/4	Weldon	**WK405594850**	Price
3/4	3/4	1-1/2	5-1/2	.030	.7050	3-1/4	Round	**WK405594853**	Price
3/4	3/4	1-1/2	5-1/2	.030	.7050	3-1/4	Weldon	**WK405594854**	Price

WIDIA High Performance Solid Carbide VariMill II™ ER End Mills with Neck

5 Flute • AlTiN Coated



- 38° Helix
- Unequal flute spacing
- Center cutting
- Optimized geometry for titanium and stainless steel
- Single tool for both roughing and finishing operations requiring fewer setups
- Slotting up to 1 x D

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Neck Dia. (in.)	Length Below Shank	Shank Type	Order No.	Price
1/2	1/2	1-1/4	4	.015	.4700	2-1/4	Round	**WK406168954**	Price
1/2	1/2	1-1/4	4	.030	.4700	2-1/4	Weldon	**WK405594900**	Price
1/2	1/2	1-1/4	4	.030	.4700	2-1/4	Safe-Lock	**WK405594899**	Price
1/2	1/2	1-1/4	4	.060	.4700	2-1/4	Round	**WK406168955**	Price
1/2	1/2	5/8	5	.120	.4700	7/8	Safe-Lock	**WK406168962**	Price
5/8	5/8	1-1/4	4	.030	.5875	2-1/4	Weldon	**WK405594902**	Price
5/8	5/8	1-1/4	4	.030	.5875	2-1/4	Safe-Lock	**WK405594901**	Price
3/4	3/4	1-1/2	5-1/2	.030	.7050	3-1/4	Weldon	**WK405594904**	Price
3/4	3/4	1-1/2	5-1/2	.030	.7050	3-1/4	Safe-Lock	**WK405594903**	Price
3/4	3/4	2-1/4	6	.060	.7050	3-1/4	Safe-Lock	**WK406168983**	Price
3/4	3/4	1-1/2	6	.120	.7050	3-1/4	Safe-Lock	**WK406168985**	Price
1	1	1-1/4	8	None	.7050	1-3/4	Safe-Lock	**WK406169008**	Price
1	1	1-1/4	6	.060	.9400	3-1/4	Safe-Lock	**WK406169006**	Price
1	1	1-3/4	5-1/2	.030	.9400	3-1/4	Weldon	**WK405594906**	Price

WIDIA High Performance Solid Carbide VariMill II™ ER End Mills

5 Flute • AlTiN Coated



- Unequal flute spacing
- 38° Helix
- Center cutting
- Optimized geometry for titanium and stainless steel
- Single tool for both roughing and finishing operations requiring fewer setups

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Order No.	Price
3/16	3/16	3/4	2-1/2	None	**WK406146489**	Price
3/16	3/16	3/4	2-1/2	.015	**WK406146490**	Price
1/4	1/4	1-1/8	3	None	**WK406146531**	Price
3/8	3/8	1	3	.015	**WK406146550**	Price
3/8	3/8	1	3	.030	**WK406146551**	Price
1/2	1/2	1-5/8	4	None	**WK406146571**	Price
1/2	1/2	1-5/8	4	.030	**WK406146568**	Price
1/2	1/2	1-5/8	4	.060	**WK406146569**	Price
1/2	1/2	1-5/8	4	.120	**WK406146570**	Price
5/8	5/8	1-5/8	3-1/2	.030	**WK406146580**	Price
5/8	5/8	1-5/8	3-1/2	.060	**WK406146581**	Price
5/8	5/8	1-5/8	3-1/2	.120	**WK406146584**	Price
3/4	3/4	2-1/4	5	None	**WK406146601**	Price
3/4	3/4	1-5/8	5	.060	**WK406146599**	Price
3/4	3/4	2-1/4	5	.120	**WK406146600**	Price
1	1	3-1/4	6	None	**WK406146615**	Price
1	1	3-1/4	6	.120	**WK406146613**	Price

WIDIA High Performance Solid Carbide VariMill II™ Long End Mills

5 Flute • 4xD • AlTiN Coated



- Unequal flute spacing
- 43° Helix
- Center cutting
- Cylindrical shank
- For finishing and semi-finishing applications
- Coated for longer tool life

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Order No.	Price
1/4	1/4	1	3	None	**WK405095167**	Price
3/8	3/8	1-1/2	4	.015	**WK405095345**	Price
3/8	3/8	1-1/2	4	.030	**WK405095346**	Price
1/2	1/2	2	5	None	**WK405095348**	Price
1/2	1/2	2	5	.015	**WK405095420**	Price
1/2	1/2	2	5	.030	**WK405095421**	Price
1/2	1/2	2	5	.060	**WK405095422**	Price
5/8	5/8	2-1/2	5-1/4	None	**WK405095423**	Price
5/8	5/8	2-1/2	5-1/4	.015	**WK405095425**	Price
5/8	5/8	2-1/2	5-1/4	.030	**WK405095426**	Price
5/8	5/8	2-1/2	5-1/4	.120	**WK405095428**	Price
3/4	3/4	3	6	None	**WK405095429**	Price
3/4	3/4	3	6	.030	**WK405095472**	Price
3/4	3/4	3	6	.060	**WK405095473**	Price
3/4	3/4	3	6	.120	**WK405095474**	Price
1	1	4	7	.030	**WK405095530**	Price

FULLERTON Solid Carbide Composite End Mills



Series 5500 - 5 Flute

- Multi-flute design allows for ultimate material removal rates
- Allows for high shear and low cutting forces that provide a clean edge without fibers
- Chipbreakers produce a clean shearing of fibers
- Right hand spiral, right hand cut
- Cutter diameter tolerance: +.0000 -.0005" / +0.000-0.013mm
- Shank diameter tolerance: h6
- Available uncoated or with FC-1 CVD diamond coating

					FC1		Uncoated	
Size (in.)	Shank Dia. (in.)	LOC (in.)	OAI (in.)	Radius	Order No.	Price	Order No.	Price
1/8	1/8	1/2	1-1/2	.010	**FT8525025**	Price	**FT8525000**	Price
1/8	1/8	1	3	.010	**FT8525026**	Price	**FT8525001**	Price
1/4	1/4	3/4	2-1/2	.020	**FT8525027**	Price	**FT8525002**	Price
1/4	1/4	1-1/2	4	.020	**FT8525028**	Price	**FT8525003**	Price
3/8	3/8	1	2-1/2	.030	**FT8525029**	Price	**FT8525004**	Price
3/8	3/8	2	4	.030	**FT8525030**	Price	**FT8525005**	Price
1/2	1/2	1-1/4	3-1/2	.030	**FT8525031**	Price	**FT8525006**	Price
1/2	1/2	2-3/8	5	.030	**FT8525032**	Price	**FT8525007**	Price
6mm	6mm	18mm	64mm	0.25mm	**FT8525041**	Price	**FT8525016**	Price
6mm	6mm	36mm	76.5mm	0.25mm	**FT8525042**	Price	**FT8525017**	Price
8mm	8mm	24mm	64mm	0.5mm	**FT8525043**	Price	**FT8525018**	Price
8mm	8mm	48mm	100mm	0.5mm	**FT8525044**	Price	**FT8525019**	Price
10mm	10mm	30mm	76mm	1.0mm	**FT8525045**	Price	**FT8525020**	Price
10mm	10mm	60mm	100mm	1.0mm	**FT8525046**	Price	**FT8525021**	Price
12mm	12mm	36mm	90mm	1.0mm	**FT8525047**	Price	**FT8525022**	Price
12mm	12mm	60mm	127mm	1.0mm	**FT8525048**	Price	**FT8525023**	Price

WIDIA Solid Carbide Finishing Square End Mills

5 Flute • Victory™ Grades

- Center cutting
- Cylindrical shanks
- AlTiN coated for longer tool life



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	1/8	1/2	1-1/2	**WK405577187**	Price
3/16	3/16	5/8	2	**WK405577188**	Price
1/4	1/4	3/4	2-1/2	**WK405577189**	Price
3/8	3/8	7/8	2-1/2	**WK405577241**	Price
3/8	3/8	1-1/2	4	**WK405577249**	Price
1/2	1/2	1	3	**WK405577242**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/2	1/2	1-1/4	3	**WK405577243**	Price
1/2	1/2	2	4-1/2	**WK405577250**	Price
5/8	5/8	1-1/4	3-1/2	**WK405577244**	Price
3/4	3/4	1-1/2	4	**WK405577245**	Price
3/4	3/4	2-1/4	5	**WK405577252**	Price
1	1	2-1/4	5	**WK405577253**	Price

HY-PRO® CARB VGx® Variable Geometry End Mills



- High performance carbide
- Non-center cutting
- TiALN coating
- Square end
- 5 Flute
- Recommended for cast iron, carbon steels, alloy steels, die steels, stainless steels, hardened steels up to 45 HrC and high heat alloys
- OSG List #VG541

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Shank Type	Order No.	Price
1/8	1/8	9/32	1-1/2	Round Shank	**TP45VG5411249**	Price
1/8	1/8	3/8	1-1/2	Round Shank	**TP45VG5411250**	Price
3/16	3/16	7/16	2	Round Shank	**TP45VG5411875**	Price
3/16	3/16	5/8	2-1/4	Round Shank	**TP45VG5411874**	Price
1/4	1/4	3/8	2	Round Shank	**TP45VG5412500**	Price
1/4	1/4	3/4	2-1/2	Round Shank	**TP45VG5412501**	Price
5/16	5/16	15/32	2	Round Shank	**TP45VG5413125**	Price
5/16	5/16	3/4	2-1/2	Round Shank	**TP45VG5413124**	Price
3/8	3/8	1/2	2	Round Shank	**TP45VG5413750**	Price
3/8	3/8	1/2	2	Weldon Shank	**TP45VG5413752**	Price
3/8	3/8	7/8	2-1/2	Round Shank	**TP45VG5413751**	Price
1/2	1/2	5/8	2-1/2	Round Shank	**TP45VG5415007**	Price
1/2	1/2	5/8	2-1/2	Weldon Shank	**TP45VG5415000**	Price
1/2	1/2	1-1/4	3-1/2	Round Shank	**TP45VG5415009**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Shank Type	Order No.	Price
1/2	1/2	1-1/4	3-1/2	Weldon Shank	**TP45VG5415002**	Price
5/8	5/8	3/4	3	Round Shank	**TP45VG5416255**	Price
5/8	5/8	3/4	3	Weldon Shank	**TP45VG5416250**	Price
5/8	5/8	1-1/4	3-1/2	Round Shank	**TP45VG5416256**	Price
5/8	5/8	1-1/4	3-1/2	Weldon Shank	**TP45VG5416251**	Price
3/4	3/4	1-1/8	4	Round Shank	**TP45VG5417512**	Price
3/4	3/4	1-1/8	4	Weldon Shank	**TP45VG5417513**	Price
3/4	3/4	1-1/2	4	Round Shank	**TP45VG5417507**	Price
3/4	3/4	1-1/2	4	Weldon Shank	**TP45VG5417501**	Price
1	1	1-1/4	4	Round Shank	**TP45VG5411010**	Price
1	1	1-1/4	4	Weldon Shank	**TP45VG5411011**	Price
1	1	1-1/2	4	Round Shank	**TP45VG5411005**	Price
1	1	1-1/2	4	Weldon Shank	**TP45VG5411000**	Price

TuffCut® XR HP 5 Flute ALtima® Coated End Mills

Center Cutting • Metric Sizes • 38° Helix

- Designed for extreme productivity
- Gain 20% or more in productivity over 4 flute styles
- Smooth cutting action to eliminate vibration
- M.A. Ford #178



Size	Shank Dia.	Flute Length	OAL	Radius	Order No.	Price
3mm	3mm	25mm	75mm	None	**DD1617998**	Price
3mm	6mm	8mm	57mm	None	**DD1617959**	Price
4mm	4mm	25mm	75mm	None	**DD1617999**	Price
4mm	6mm	11mm	57mm	None	**DD1617961**	Price
5mm	6mm	13mm	57mm	None	**DD1617963**	Price
5mm	5mm	25mm	75mm	None	**DD1618026**	Price
6mm	6mm	13mm	57mm	None	**DD1617965**	Price
6mm	6mm	13mm	57mm	0.5mm	**DD1617966**	Price
6mm	6mm	25mm	75mm	None	**DD1618027**	Price
8mm	8mm	19mm	63mm	None	**DD1617968**	Price
8mm	8mm	19mm	63mm	0.5mm	**DD1617969**	Price
8mm	8mm	30mm	75mm	None	**DD1618028**	Price
10mm	10mm	22mm	72mm	None	**DD1617971**	Price
10mm	10mm	22mm	72mm	0.5mm	**DD1617972**	Price
10mm	10mm	45mm	100mm	None	**DD1618029**	Price

Size	Shank Dia.	Flute Length	OAL	Radius	Order No.	Price
12mm	12mm	26mm	83mm	None	**DD1617974**	Price
12mm	12mm	26mm	83mm	0.75mm	**DD1617975**	Price
12mm	12mm	75mm	150mm	None	**DD1618030**	Price
14mm	14mm	26mm	83mm	None	**DD1617977**	Price
14mm	14mm	26mm	83mm	0.75mm	**DD1617978**	Price
16mm	16mm	32mm	92mm	None	**DD1617981**	Price
16mm	16mm	32mm	92mm	1mm	**DD1617982**	Price
16mm	16mm	75mm	150mm	None	**DD1618031**	Price
18mm	18mm	32mm	92mm	None	**DD1617983**	Price
18mm	18mm	32mm	92mm	1mm	**DD1617984**	Price
20mm	20mm	38mm	104mm	None	**DD1617986**	Price
20mm	20mm	38mm	104mm	1mm	**DD1617987**	Price
20mm	20mm	75mm	150mm	None	**DD1618032**	Price
25mm	25mm	38mm	104mm	None	**DD1617988**	Price
25mm	25mm	38mm	104mm	1mm	**DD1617989**	Price

RAPIDKUT® 5 Flute Solid Carbide Variable Helix End Mills

Center Cutting • AlTiN Coated

- Helix changes along flute
- Allows increase in speeds
- 3/8" diameter and larger have flats on shank
- Cutting diameter tolerance: +.000/-.002"



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price
1/4	1/4	3/4	2-1/2	.015 - .020	**DD8112221**	Price
3/8	3/8	1	2-1/2	.015 - .020	**DD8112222**	Price
1/2	1/2	1	3	.025 - .030	**DD8112192**	Price

Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price
5/8	5/8	1-1/4	3-1/2	.030 - .035	**DD8112223**	Price
3/4	3/4	1-1/2	4	.030 - .035	**DD8112224**	Price
1	1	1-1/2	4	.030 - .035	**DD8112285**	Price

RAPIDKUT® 5 Flute Variable Index Carbide End Mills

Eccentric Relief

- Provides for maximum material removal and feed rates
- Advanced performance in steels, stainless steels, alloy steels, titanium and hardened steels
- AlCrN coating provides increased wear resistance
- Square end and corner radius



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	Radius	Neck Dia.	Reach	OAL (in.)	Shank Type	Order No.	Price
1/8	1/8	5/32	.010	.1200	.3750	2	Round	**PE1510912**	Price
1/8	1/8	5/32	.010	.1200	.5000	2	Round	**PE1510913**	Price
1/8	1/8	5/32	.030	.1200	.5000	2	Round	**PE1510914**	Price
1/8	1/8	5/32	.010	.1200	.7500	2-1/2	Round	**PE1510915**	Price
3/16	3/16	7/32	.010	.1800	.5000	2	Round	**PE1510916**	Price
3/16	3/16	7/32	.030	.1800	.5000	2	Round	**PE1510917**	Price
3/16	3/16	7/32	.010	.1800	.7500	2-1/2	Round	**PE1510918**	Price
3/16	3/16	7/32	.010	.1800	1.1250	2-1/2	Round	**PE1510919**	Price
3/16	3/16	7/32	.030	.1800	.7500	2-1/2	Round	**PE1510920**	Price
1/4	1/4	3/8	None	-	-	2	Round	**PE1510925**	Price
1/4	1/4	3/8	.020	-	-	2	Round	**PE1510926**	Price
1/4	1/4	3/8	.030	-	-	2	Round	**PE1510927**	Price
1/4	1/4	3/8	.060	-	-	2	Round	**PE1510928**	Price
1/4	1/4	3/8	.020	.2400	2.1250	4	Round	**PE1510930**	Price
1/4	1/4	3/8	.030	.2400	.7500	4	Round	**PE1510931**	Price
1/4	1/4	3/8	.060	.2400	.7500	4	Round	**PE1510932**	Price
1/4	1/4	3/4	None	-	-	2-1/2	Round	**PE1510921**	Price
1/4	1/4	3/4	.020	-	-	2-1/2	Round	**PE1510922**	Price
1/4	1/4	3/4	.030	-	-	2-1/2	Round	**PE1510923**	Price
1/4	1/4	3/4	.060	-	-	2-1/2	Round	**PE1510924**	Price
1/4	1/4	1-1/4	None	-	-	3	Round	**PE1510929**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	Radius	Neck Dia.	Reach	OAL (in.)	Shank Type	Order No.	Price
5/16	5/16	7/8	None	-	-	2-1/2	Round	**PE1510933**	Price
5/16	5/16	7/8	.020	-	-	2-1/2	Round	**PE1510934**	Price
5/16	5/16	7/8	.060	-	-	2-1/2	Round	**PE1510935**	Price
5/16	5/16	1	None	-	-	3	Round	**PE1510936**	Price
5/16	5/16	1	.030	-	-	3	Round	**PE1510937**	Price
5/16	5/16	1	.060	-	-	3	Round	**PE1510938**	Price
5/16	5/16	2	None	-	-	4	Round	**PE1510939**	Price
3/8	3/8	1/2	None	-	-	2-1/2	Round	**PE1510940**	Price
3/8	3/8	1/2	.020	-	-	2-1/2	Round	**PE1510941**	Price
3/8	3/8	1/2	.030	-	-	2-1/2	Round	**PE1510942**	Price
3/8	3/8	1/2	.060	-	-	2-1/2	Round	**PE1510943**	Price
3/8	3/8	1/2	.090	-	-	2-1/2	Round	**PE1510944**	Price
3/8	3/8	1/2	.020	.3600	1.1250	4	Round	**PE1510945**	Price
3/8	3/8	1/2	.020	.3600	2.1250	4	Round	**PE1510946**	Price
3/8	3/8	1/2	.030	.3600	1.1250	4	Round	**PE1510947**	Price
3/8	3/8	1/2	.030	.3600	2.1250	4	Round	**PE1510948**	Price
3/8	3/8	1/2	.060	.3600	1.1250	4	Round	**PE1510949**	Price
3/8	3/8	1/2	.060	.3600	2.1250	4	Round	**PE1510950**	Price
3/8	3/8	1/2	.020	.3600	3.1250	6	Round	**PE1510951**	Price
3/8	3/8	1/2	.020	.3600	4.1250	6	Round	**PE1510952**	Price
3/8	3/8	1	None	-	-	2-1/2	Round	**PE1510953**	Price

(continued on next page)

RAPIDKUT 5 Flute Variable Index Carbide End Mills (cont.)



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	Radius	Neck Dia.	Reach	OAL (in.)	Shank Type	Order No.	Price
3/8	3/8	1	.020	-	-	2-1/2	Round	**PE1510954**	Price
3/8	3/8	1	.030	-	-	2-1/2	Round	**PE1510955**	Price
3/8	3/8	1	.060	-	-	2-1/2	Round	**PE1510956**	Price
3/8	3/8	1	.090	-	-	2-1/2	Round	**PE1510957**	Price
3/8	3/8	1	.120	-	-	2-1/2	Round	**PE1510958**	Price
3/8	3/8	1-1/4	None	-	-	3	Round	**PE1510959**	Price
3/8	3/8	2	None	-	-	4	Round	**PE1510960**	Price
3/8	3/8	2	.020	-	-	4	Round	**PE1510961**	Price
7/16	7/16	1	None	-	-	2-3/4	Round	**PE1510962**	Price
7/16	7/16	1	.020	-	-	2-3/4	Round	**PE1510963**	Price
7/16	7/16	1	.030	-	-	2-3/4	Round	**PE1510964**	Price
7/16	7/16	2	None	-	-	4	Round	**PE1510965**	Price
1/2	1/2	5/8	None	-	-	3	Round	**PE1510986**	Price
1/2	1/2	5/8	.030	-	-	3	Round	**PE1510988**	Price
1/2	1/2	5/8	.060	-	-	3	Round	**PE1510991**	Price
1/2	1/2	5/8	.120	-	-	3	Round	**PE1510994**	Price
1/2	1/2	5/8	.030	.4800	2.2500	4	Round	**PE1510987**	Price
1/2	1/2	5/8	.060	.4800	1.5000	4	Round	**PE1510989**	Price
1/2	1/2	5/8	.060	.4800	2.2500	4	Round	**PE1510990**	Price
1/2	1/2	5/8	.090	.4800	1.5000	4	Round	**PE1510992**	Price
1/2	1/2	5/8	.090	.4800	2.2500	4	Round	**PE1510993**	Price
1/2	1/2	5/8	.120	.4800	1.5000	4	Round	**PE1510995**	Price
1/2	1/2	5/8	.120	.4800	2.2500	4	Round	**PE1510996**	Price
1/2	1/2	5/8	.030	.4800	3.3750	6	Round	**PE1510997**	Price
1/2	1/2	5/8	.060	.4800	3.3750	6	Round	**PE1510998**	Price
1/2	1/2	5/8	.090	.4800	4.1250	6	Round	**PE1510999**	Price
1/2	1/2	1	None	-	-	3	Round	**PE1510966**	Price
1/2	1/2	1	.010	-	-	3	Round	**PE1510967**	Price
1/2	1/2	1	.015	-	-	3	Round	**PE1510971**	Price
1/2	1/2	1	.020	-	-	3	Round	**PE1510970**	Price
1/2	1/2	1	.030	-	-	3	Round	**PE1510968**	Price
1/2	1/2	1	.060	-	-	3	Round	**PE1510972**	Price
1/2	1/2	1	.090	-	-	3	Round	**PE1510973**	Price
1/2	1/2	1-1/4	None	-	-	3	Round	**PE1510974**	Price
1/2	1/2	1-1/4	.015	-	-	3	Round	**PE1510969**	Price
1/2	1/2	1-1/4	.030	-	-	3	Round	**PE1510975**	Price
1/2	1/2	1-1/4	.060	-	-	3	Round	**PE1510976**	Price
1/2	1/2	1-1/4	.090	-	-	3	Round	**PE1510977**	Price
1/2	1/2	1-1/4	.120	-	-	3	Round	**PE1510978**	Price
1/2	1/2	1-5/8	None	-	-	4	Round	**PE1510979**	Price
1/2	1/2	2	None	-	-	4	Round	**PE1510980**	Price
1/2	1/2	2	.020	-	-	4	Round	**PE1510981**	Price
1/2	1/2	2	.030	-	-	4	Round	**PE1510982**	Price
1/2	1/2	2	.060	-	-	4	Round	**PE1510983**	Price
1/2	1/2	2	.090	-	-	4	Round	**PE1510984**	Price
1/2	1/2	2	.120	-	-	4	Round	**PE1510985**	Price
5/8	5/8	3/4	None	-	-	3-1/2	Round	**PE1511000**	Price
5/8	5/8	3/4	.030	-	-	3-1/2	Round	**PE1511001**	Price
5/8	5/8	3/4	.035	-	-	3-1/2	Round	**PE1511002**	Price
5/8	5/8	3/4	.060	-	-	3-1/2	Round	**PE1511003**	Price
5/8	5/8	3/4	.120	-	-	3-1/2	Round	**PE1511004**	Price
5/8	5/8	3/4	.030	.6000	1.6250	4	Round	**PE1511005**	Price
5/8	5/8	3/4	.030	.6000	2.3750	6	Round	**PE1511006**	Price
5/8	5/8	3/4	.090	.6000	2.3750	6	Round	**PE1511007**	Price
5/8	5/8	1-1/2	None	-	-	3-1/2	Round	**PE1511008**	Price
5/8	5/8	1-1/2	.030	-	-	3-1/2	Round	**PE1511009**	Price
5/8	5/8	1-1/2	.035	-	-	3-1/2	Round	**PE1511010**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	Radius	Neck Dia.	Reach	OAL (in.)	Shank Type	Order No.	Price
5/8	5/8	1-1/2	.060	-	-	3-1/2	Round	**PE1511011**	Price
5/8	5/8	1-1/2	.090	-	-	3-1/2	Round	**PE1511012**	Price
5/8	5/8	1-1/2	.120	-	-	3-1/2	Round	**PE1511013**	Price
5/8	5/8	1-5/8	None	-	-	4	Round	**PE1511014**	Price
5/8	5/8	1-5/8	.030	-	-	4	Round	**PE1511015**	Price
5/8	5/8	1-5/8	.035	-	-	4	Round	**PE1511016**	Price
5/8	5/8	1-5/8	.120	-	-	4	Round	**PE1511017**	Price
5/8	5/8	2-1/4	None	-	-	5	Round	**PE1511018**	Price
5/8	5/8	2-1/4	.035	-	-	5	Round	**PE1511019**	Price
5/8	5/8	3-1/4	None	-	-	6	Round	**PE1511020**	Price
3/4	3/4	7/8	None	-	-	4	Round	**PE1511021**	Price
3/4	3/4	7/8	.030	-	-	4	Round	**PE1511022**	Price
3/4	3/4	7/8	.035	-	-	4	Round	**PE1511023**	Price
3/4	3/4	7/8	.060	-	-	4	Round	**PE1511024**	Price
3/4	3/4	7/8	.120	-	-	4	Round	**PE1511025**	Price
3/4	3/4	1	.030	.7200	2.0000	4	Round	**PE1511026**	Price
3/4	3/4	1	.060	.7200	2.0000	4	Round	**PE1511027**	Price
3/4	3/4	1	.090	.7200	2.0000	4	Round	**PE1511028**	Price
3/4	3/4	1	.190	.7200	2.0000	4	Round	**PE1511029**	Price
3/4	3/4	1	.030	.7200	2.5000	6	Round	**PE1511030**	Price
3/4	3/4	1	.030	.7200	3.3570	6	Round	**PE1511031**	Price
3/4	3/4	1	.030	.7200	4.1250	6	Round	**PE1511032**	Price
3/4	3/4	1	.120	.7200	3.3570	6	Round	**PE1511033**	Price
3/4	3/4	1	.120	.7200	4.1250	6	Round	**PE1511034**	Price
3/4	3/4	1	.190	.7200	4.1250	6	Round	**PE1511036**	Price
3/4	3/4	1-1/4	.030	-	-	4	Round	**PE1511046**	Price
3/4	3/4	1-1/4	.120	-	-	4	Round	**PE1511047**	Price
3/4	3/4	1-1/2	None	-	-	4	Round	**PE1511035**	Price
3/4	3/4	1-1/2	.020	-	-	4	Round	**PE1511037**	Price
3/4	3/4	1-1/2	.030	-	-	4	Round	**PE1511038**	Price
3/4	3/4	1-1/2	.035	-	-	4	Round	**PE1511040**	Price
3/4	3/4	1-1/2	.035	-	-	4	Weldon	**PE1511039**	Price
3/4	3/4	1-1/2	.060	-	-	4	Round	**PE1511041**	Price
3/4	3/4	1-1/2	.090	-	-	4	Round	**PE1511042**	Price
3/4	3/4	1-1/2	.120	-	-	4	Round	**PE1511043**	Price
3/4	3/4	1-1/2	.250	-	-	4	Round	**PE1511044**	Price
3/4	3/4	1-5/8	None	-	-	4	Round	**PE1511045**	Price
3/4	3/4	1-5/8	.035	-	-	4	Round	**PE1511048**	Price
3/4	3/4	2-1/4	None	-	-	5	Round	**PE1511049**	Price
3/4	3/4	2-1/4	.035	-	-	5	Round	**PE1511050**	Price
3/4	3/4	3-1/4	None	-	-	6	Round	**PE1511051**	Price
1	1	1-1/4	.030	.9700	2.2500	4	Round	**PE1511052**	Price
1	1	1-1/4	.190	.9700	2.2500	4	Round	**PE1511053**	Price
1	1	1-1/4	.250	.9700	2.2500	4	Round	**PE1511054**	Price
1	1	1-1/2	None	-	-	4	Round	**PE1511055**	Price
1	1	1-1/2	.030	-	-	4	Round	**PE1511056**	Price
1	1	1-1/2	.035	-	-	4	Round	**PE1511057**	Price
1	1	1-1/2	.060	-	-	4	Round	**PE1511058**	Price
1	1	2	None	-	-	5	Round	**PE1511059**	Price
1	1	2-1/4	None	-	-	5	Round	**PE1511060**	Price
1	1	2-1/4	.030	-	-	5	Round	**PE1511061**	Price
1	1	2-1/4	.035	-	-	5	Round	**PE1511062**	Price
1	1	2-1/4	.060	-	-	5	Round	**PE1511063**	Price
1	1	2-1/4	.250	-	-	5	Round	**PE1511064**	Price
1	1	3-1/4	None	-	-	6	Round	**PE1511065**	Price
1	1	4-1/4	None	-	-	7	Round	**PE1511066**	Price

TuffCut® XT 5 Flute Carbide End Mills



Altima® Blaze Coated

- Higher feeds over similar end mills
- Reduced vibration harmonics
- Improved part finishes
- Maintains cutting edge strength & sharpness for improved tool life
- Slotting at 1X diameter deep
- State-of-the-art ALtima® Blaze coating for superior tool life and higher metal removal rates
- Designed for specific applications in steels, stainless steels, special alloys, cast iron, titanium inconel, and high temp alloys
- M.A. Ford List #278

Size (in.)	Shank Dia, (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Order No.	Price
1/8	1/8	1/4	1-1/2	None	**DD1636992**	Price
1/8	1/8	1/4	1-1/2	.015	**DD1697002**	Price
1/8	1/8	1/4	1-1/2	.030	**DD1697003**	Price
1/8	1/8	3/8	1-1/2	None	**DD1636993**	Price
1/8	1/8	1/2	1-1/2	None	**DD1697005**	Price
1/8	1/8	1/2	1-1/2	.015	**DD1697006**	Price
1/8	1/8	1/2	1-1/2	.030	**DD1697007**	Price
1/8	1/8	3/4	2-1/2	None	**DD1697009**	Price
1/8	1/8	3/4	2-1/2	.015	**DD1697010**	Price
1/8	1/8	3/4	2-1/2	.030	**DD1697011**	Price
5/32	3/16	3/16	2	None	**DD1636994**	Price
5/32	3/16	7/16	2	None	**DD1636995**	Price
3/16	3/16	5/16	2	None	**DD1636996**	Price
3/16	3/16	5/16	2	.015	**DD1697014**	Price
3/16	3/16	7/16	2	None	**DD1636997**	Price
3/16	3/16	9/16	2	None	**DD1697017**	Price
3/16	3/16	9/16	2	.015	**DD1697018**	Price
3/16	3/16	3/4	2-1/2	None	**DD1697021**	Price
3/16	3/16	3/4	2-1/2	.015	**DD1697022**	Price
1/4	1/4	3/8	2	None	**DD1637000**	Price
1/4	1/4	3/8	2	.015	**DD1637001**	Price
1/4	1/4	3/8	2	.030	**DD1637002**	Price
1/4	1/4	3/4	2-1/2	None	**DD1637003**	Price
1/4	1/4	3/4	2-1/2	.015	**DD1637004**	Price
1/4	1/4	3/4	2-1/2	.030	**DD1637005**	Price
1/4	1/4	1-1/4	3	None	**DD1637006**	Price
1/4	1/4	1-1/4	3	.015	**DD1637007**	Price
1/4	1/4	1-1/4	3	.030	**DD1637008**	Price
1/4	1/4	1-3/4	4	None	**DD1637009**	Price
1/4	1/4	1-3/4	4	.015	**DD1637010**	Price
1/4	1/4	1-3/4	4	.030	**DD1637075**	Price
5/16	5/16	7/16	2	None	**DD1697061**	Price
5/16	5/16	7/16	2	.015	**DD1697062**	Price
5/16	5/16	7/16	2	.030	**DD1697063**	Price
3/8	3/8	1/2	2-1/2	None	**DD1637013**	Price
3/8	3/8	1/2	2-1/2	.015	**DD1637014**	Price
3/8	3/8	1/2	2-1/2	.030	**DD1637015**	Price
3/8	3/8	1	2-1/2	None	**DD1637016**	Price
3/8	3/8	1	2-1/2	.015	**DD1637017**	Price
3/8	3/8	1	2-1/2	.030	**DD1637018**	Price
3/8	3/8	1-1/4	3	None	**DD1697141**	Price
3/8	3/8	1-1/4	3	.015	**DD1697142**	Price
3/8	3/8	1-1/4	3	.030	**DD1697143**	Price
3/8	3/8	1-1/2	4	None	**DD1637019**	Price
3/8	3/8	1-1/2	4	.015	**DD1637020**	Price
3/8	3/8	1-1/2	4	.030	**DD1637076**	Price
3/8	3/8	1-5/8	3-1/2	None	**DD1697149**	Price
3/8	3/8	1-5/8	3-1/2	.015	**DD1697150**	Price
3/8	3/8	1-5/8	3-1/2	.030	**DD1697151**	Price
3/8	3/8	2	4	None	**DD1697173**	Price
3/8	3/8	2	4	.015	**DD1697174**	Price
3/8	3/8	2	4	.030	**DD1697175**	Price
3/8	3/8	2-1/2	4	None	**DD1637021**	Price
3/8	3/8	2-1/2	4	.015	**DD1637022**	Price
3/8	3/8	2-1/2	4	.030	**DD1637077**	Price
3/8	3/8	2-1/2	6	None	**DD1697181**	Price
3/8	3/8	2-1/2	6	.015	**DD1697182**	Price
3/8	3/8	2-1/2	6	.030	**DD1697183**	Price

Size (in.)	Shank Dia, (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Order No.	Price
7/16	7/16	5/8	2-1/2	None	**DD1697189**	Price
7/16	7/16	5/8	2-1/2	.015	**DD1697190**	Price
7/16	7/16	5/8	2-1/2	.030	**DD1697191**	Price
7/16	7/16	5/8	2-1/2	.060	**DD1697192**	Price
7/16	7/16	1	2-3/4	None	**DD1697197**	Price
7/16	7/16	1	2-3/4	.015	**DD1697198**	Price
7/16	7/16	1	2-3/4	.030	**DD1697199**	Price
7/16	7/16	2	4	None	**DD1697205**	Price
7/16	7/16	2	4	.015	**DD1697206**	Price
7/16	7/16	2	4	.030	**DD1697207**	Price
7/16	7/16	2	4	.060	**DD1697208**	Price
1/2	1/2	5/8	3	None	**DD1637025**	Price
1/2	1/2	5/8	3	.015	**DD1637026**	Price
1/2	1/2	5/8	3	.030	**DD1637027**	Price
1/2	1/2	5/8	3	.060	**DD1697216**	Price
1/2	1/2	1	3	None	**DD1697258**	Price
1/2	1/2	1	3	.015	**DD1697259**	Price
1/2	1/2	1	3	.030	**DD1697260**	Price
1/2	1/2	1	3	.060	**DD1697261**	Price
1/2	1/2	1-1/4	3	None	**DD1637028**	Price
1/2	1/2	1-1/4	3	.015	**DD1637029**	Price
1/2	1/2	1-1/4	3	.030	**DD1637030**	Price
1/2	1/2	1-1/4	3	.060	**DD1637078**	Price
1/2	1/2	1-5/8	4	None	**DD1697276**	Price
1/2	1/2	1-5/8	4	.015	**DD1697277**	Price
1/2	1/2	1-5/8	4	.030	**DD1697278**	Price
1/2	1/2	1-5/8	4	.060	**DD1697279**	Price
1/2	1/2	1-5/8	6	None	**DD1697285**	Price
1/2	1/2	1-5/8	6	.015	**DD1697286**	Price
1/2	1/2	1-5/8	6	.030	**DD1697287**	Price
1/2	1/2	1-5/8	6	.060	**DD1697288**	Price
1/2	1/2	2	4	None	**DD1637031**	Price
1/2	1/2	2	4	.015	**DD1637032**	Price
1/2	1/2	2	4	.030	**DD1637033**	Price
1/2	1/2	2-1/8	4	None	**DD1697294**	Price
1/2	1/2	2-1/8	4	.015	**DD1697295**	Price
1/2	1/2	2-1/8	4	.030	**DD1697296**	Price
1/2	1/2	2-1/8	4	.060	**DD1697297**	Price
1/2	1/2	2-5/8	5	None	**DD1697303**	Price
1/2	1/2	2-5/8	5	.015	**DD1697304**	Price
1/2	1/2	2-5/8	5	.030	**DD1697305**	Price
1/2	1/2	2-5/8	5	.060	**DD1697306**	Price
1/2	1/2	3	5	None	**DD1637034**	Price
1/2	1/2	3	5	.015	**DD1637035**	Price
1/2	1/2	3	5	.030	**DD1637036**	Price
1/2	1/2	3-1/4	6	None	**DD1697312**	Price
1/2	1/2	3-1/4	6	.015	**DD1697313**	Price
1/2	1/2	3-1/4	6	.030	**DD1697314**	Price
1/2	1/2	3-1/4	6	.060	**DD1697315**	Price
5/8	5/8	3/4	3	None	**DD1697321**	Price
5/8	5/8	3/4	3	.015	**DD1697322**	Price
5/8	5/8	3/4	3	.030	**DD1697323**	Price
5/8	5/8	3/4	3	.060	**DD1697324**	Price
5/8	5/8	1-1/4	3-1/2	None	**DD1637039**	Price
5/8	5/8	1-1/4	3-1/2	.015	**DD1637040**	Price
5/8	5/8	1-1/4	3-1/2	.030	**DD1637041**	Price
5/8	5/8	1-1/4	3-1/2	.060	**DD1637042**	Price
5/8	5/8	1-5/8	3-1/2	None	**DD1697361**	Price

TuffCut® XT 5 Flute Carbide End Mills (cont.)



Size (in.)	Shank Dia, (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Order No.	Price
5/8	5/8	1-5/8	3-1/2	.015	**DD1697362**	Price
5/8	5/8	1-5/8	3-1/2	.030	**DD1697363**	Price
5/8	5/8	1-5/8	3-1/2	.060	**DD1697364**	Price
5/8	5/8	2-1/8	4	None	**DD1697371**	Price
5/8	5/8	2-1/8	4	.015	**DD1697372**	Price
5/8	5/8	2-1/8	4	.030	**DD1697373**	Price
5/8	5/8	2-1/8	4	.060	**DD1697374**	Price
5/8	5/8	2-1/8	6	None	**DD1697381**	Price
5/8	5/8	2-1/8	6	.015	**DD1697382**	Price
5/8	5/8	2-1/8	6	.030	**DD1697383**	Price
5/8	5/8	2-1/8	6	.060	**DD1697384**	Price
5/8	5/8	2-1/4	5	None	**DD1637044**	Price
5/8	5/8	2-1/4	5	.015	**DD1637045**	Price
5/8	5/8	2-1/4	5	.030	**DD1637046**	Price
5/8	5/8	2-5/8	5	None	**DD1697391**	Price
5/8	5/8	2-5/8	5	.015	**DD1697392**	Price
5/8	5/8	2-5/8	5	.030	**DD1697393**	Price
5/8	5/8	2-5/8	5	.060	**DD1697394**	Price
5/8	5/8	3	6	None	**DD1637047**	Price
5/8	5/8	3	6	.015	**DD1637048**	Price
5/8	5/8	3	6	.030	**DD1637049**	Price
5/8	5/8	3-1/4	6	None	**DD1697401**	Price
5/8	5/8	3-1/4	6	.015	**DD1697402**	Price
5/8	5/8	3-1/4	6	.030	**DD1697403**	Price
5/8	5/8	3-1/4	6	.060	**DD1697404**	Price
5/8	5/8	4	6	None	**DD1697411**	Price
5/8	5/8	4	6	.015	**DD1697412**	Price
5/8	5/8	4	6	.030	**DD1697413**	Price
5/8	5/8	4	6	.060	**DD1697414**	Price
3/4	3/4	1	3	None	**DD1697421**	Price
3/4	3/4	1	3	.015	**DD1697422**	Price

Size (in.)	Shank Dia, (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Order No.	Price
3/4	3/4	1	3	.030	**DD1697423**	Price
3/4	3/4	1	3	.060	**DD1697424**	Price
3/4	3/4	1-1/2	4	None	**DD1637052**	Price
3/4	3/4	1-1/2	4	.015	**DD1637053**	Price
3/4	3/4	1-1/2	4	.030	**DD1637054**	Price
3/4	3/4	1-1/2	4	.060	**DD1637055**	Price
3/4	3/4	1-5/8	4	None	**DD1697461**	Price
3/4	3/4	1-5/8	4	.015	**DD1697462**	Price
3/4	3/4	1-5/8	4	.030	**DD1697463**	Price
3/4	3/4	1-5/8	4	.060	**DD1697464**	Price
3/4	3/4	2-1/4	5	None	**DD1637057**	Price
3/4	3/4	2-1/4	5	.015	**DD1637058**	Price
3/4	3/4	2-1/4	5	.030	**DD1637059**	Price
3/4	3/4	2-3/8	5	None	**DD1697471**	Price
3/4	3/4	2-3/8	5	.015	**DD1697472**	Price
3/4	3/4	2-3/8	5	.030	**DD1697473**	Price
3/4	3/4	2-3/8	5	.060	**DD1697474**	Price
3/4	3/4	2-3/8	6	None	**DD1697481**	Price
3/4	3/4	2-3/8	6	.015	**DD1697482**	Price
3/4	3/4	2-3/8	6	.030	**DD1697483**	Price
3/4	3/4	2-3/8	6	.060	**DD1697484**	Price
3/4	3/4	3	6	None	**DD1637060**	Price
3/4	3/4	3	6	.015	**DD1637061**	Price
3/4	3/4	3	6	.030	**DD1637062**	Price
3/4	3/4	3-1/4	6	.015	**DD1697492**	Price
3/4	3/4	3-1/4	6	.030	**DD1697493**	Price
3/4	3/4	3-1/4	6	.060	**DD1697494**	Price
3/4	3/4	4-1/8	7	None	**DD1697501**	Price
3/4	3/4	4-1/8	7	.015	**DD1697502**	Price
3/4	3/4	4-1/8	7	.030	**DD1697503**	Price
3/4	3/4	4-1/8	7	.060	**DD1697504**	Price

TuffCut® DM Multi-Flute High Performance End Mills



Fractional Sizes

- Designed for hardened materials Rc 50-65
- ALtima® 52 coating for materials Rc 52 and above
- Square end or corner radius
- 45° Helix
- M.A. Ford Series #157

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Radius	Order No.	Price
1/8	1/4	3/8	3	4	None	**DD1515702**	Price
1/8	1/4	3/8	3	4	.015	**DD1515703**	Price
1/8	1/4	3/8	3	4	.020	**DD1515704**	Price
5/32	1/4	15/32	3	4	None	**DD1515705**	Price
5/32	1/4	15/32	3	4	.015	**DD1515706**	Price
5/32	1/4	15/32	3	4	.020	**DD1515707**	Price
3/16	1/4	9/16	3	4	None	**DD1515711**	Price
3/16	1/4	9/16	3	4	.015	**DD1515712**	Price
3/16	1/4	9/16	3	4	.020	**DD1515713**	Price
3/16	1/4	9/16	3	4	.030	**DD1515714**	Price
1/4	1/4	5/8	3-1/2	6	None	**DD1515723**	Price
1/4	1/4	5/8	3-1/2	6	.015	**DD1515724**	Price
1/4	1/4	5/8	3-1/2	6	.020	**DD1515725**	Price
1/4	1/4	5/8	3-1/2	6	.030	**DD1515726**	Price
1/4	1/4	5/8	3-1/2	6	.045	**DD1515727**	Price
5/16	5/16	3/4	4	6	None	**DD1515728**	Price
5/16	5/16	3/4	4	6	.015	**DD1515729**	Price
5/16	5/16	3/4	4	6	.020	**DD1515730**	Price
5/16	5/16	3/4	4	6	.030	**DD1515731**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Radius	Order No.	Price
5/16	5/16	3/4	4	6	.045	**DD1515732**	Price
3/8	3/8	1	4	6	None	**DD1515738**	Price
3/8	3/8	1	4	6	.015	**DD1515739**	Price
3/8	3/8	1	4	6	.020	**DD1515740**	Price
3/8	3/8	1	4	6	.030	**DD1515741**	Price
3/8	3/8	1	4	6	.045	**DD1515742**	Price
1/2	1/2	1-1/4	4	6	None	**DD1515754**	Price
1/2	1/2	1-1/4	4	6	.015	**DD1515755**	Price
1/2	1/2	1-1/4	4	6	.020	**DD1515756**	Price
1/2	1/2	1-1/4	4	6	.030	**DD1515757**	Price
1/2	1/2	1-1/4	4	6	.045	**DD1515758**	Price
1/2	1/2	1-1/4	4	6	.060	**DD1515759**	Price
5/8	5/8	1-9/16	6	6	None	**DD1515760**	Price
5/8	5/8	1-9/16	6	6	.015	**DD1515761**	Price
5/8	5/8	1-9/16	6	6	.020	**DD1515762**	Price
5/8	5/8	1-9/16	6	6	.030	**DD1515763**	Price
5/8	5/8	1-9/16	6	6	.045	**DD1515764**	Price
5/8	5/8	1-9/16	6	6	.060	**DD1515765**	Price
5/8	5/8	1-9/16	6	6	.090	**DD1515766**	Price

TuffCut® DM Multi-Flute High Performance End Mills



Metric Sizes

- Designed for hardened materials Rc 50-65
- ALtima® 52 coating for materials Rc 52 and above
- Square end or corner radius
- 45° Helix
- M.A. Ford Series #157

Size	Shank Dia.	Flute Length	OAL	No. of Flutes	Radius	Order No.	Price
3mm	6mm	10mm	76mm	4	None	**DD1515700**	Price
3mm	6mm	10mm	76mm	4	0.5mm	**DD1515701**	Price
4mm	6mm	12mm	76mm	4	None	**DD1515708**	Price
4mm	6mm	12mm	76mm	4	0.5mm	**DD1515709**	Price
4mm	6mm	12mm	76mm	4	0.75mm	**DD1515710**	Price
5mm	6mm	15mm	90mm	4	None	**DD1515715**	Price
5mm	6mm	15mm	90mm	4	0.5mm	**DD1515716**	Price
5mm	6mm	15mm	90mm	4	0.75mm	**DD1515717**	Price
5mm	6mm	15mm	90mm	4	1mm	**DD1515718**	Price
6mm	6mm	15mm	90mm	6	None	**DD1515719**	Price
6mm	6mm	15mm	90mm	6	0.5mm	**DD1515720**	Price
6mm	6mm	15mm	90mm	6	0.75mm	**DD1515721**	Price
6mm	6mm	15mm	90mm	6	1mm	**DD1515722**	Price
8mm	8mm	20mm	100mm	6	None	**DD1515733**	Price
8mm	8mm	20mm	100mm	6	0.5mm	**DD1515734**	Price
8mm	8mm	20mm	100mm	6	0.75mm	**DD1515735**	Price
8mm	8mm	20mm	100mm	6	1mm	**DD1515736**	Price
8mm	8mm	20mm	100mm	6	1.5mm	**DD1515737**	Price
10mm	10mm	25mm	100mm	6	None	**DD1515743**	Price

Size	Shank Dia.	Flute Length	OAL	No. of Flutes	Radius	Order No.	Price
10mm	10mm	25mm	100mm	6	0.5mm	**DD1515744**	Price
10mm	10mm	25mm	100mm	6	0.75mm	**DD1515745**	Price
10mm	10mm	25mm	100mm	6	1mm	**DD1515746**	Price
10mm	10mm	25mm	100mm	6	1.5mm	**DD1515747**	Price
12mm	12mm	30mm	100mm	6	None	**DD1515748**	Price
12mm	12mm	30mm	100mm	6	0.5mm	**DD1515749**	Price
12mm	12mm	30mm	100mm	6	0.75mm	**DD1515750**	Price
12mm	12mm	30mm	100mm	6	1mm	**DD1515751**	Price
12mm	12mm	30mm	100mm	6	1.5mm	**DD1515752**	Price
12mm	12mm	30mm	100mm	6	2mm	**DD1515753**	Price
16mm	16mm	40mm	150mm	6	None	**DD1515767**	Price
16mm	16mm	40mm	150mm	6	0.5mm	**DD1515768**	Price
16mm	16mm	40mm	150mm	6	0.75mm	**DD1515769**	Price
16mm	16mm	40mm	150mm	6	1mm	**DD1515770**	Price
16mm	16mm	40mm	150mm	6	1.5mm	**DD1515771**	Price
16mm	16mm	40mm	150mm	6	2mm	**DD1515772**	Price
16mm	16mm	40mm	150mm	6	2.5mm	**DD1515773**	Price
16mm	16mm	40mm	150mm	6	3mm	**DD1515774**	Price

enDURO® M525B Solid Carbide 5 Flute Variable Index Ball Nose End Mills

- Excellent for contouring applications in a variety of materials
- Unique vibration dampening geometry for chatter-free machining
- For maximum cutting edge engagement and higher metal removal
- 40° Helix, AlCrN-X coated
- Round shank





Great for HSM

MADE IN THE USA

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/4	1/4	3/8	2	**DD4065030**	Price
1/4	1/4	3/4	2-1/2	**DD4065054**	Price
1/4	1/4	1-1/8	3	**DD4065060**	Price
3/8	3/8	1	2-1/2	**DD4065140**	Price
3/8	3/8	1-5/8	3-1/2	**DD4065156**	Price
3/8	3/8	2	4	**DD4065180**	Price
1/2	1/2	1-1/4	3	**DD4065275**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/2	1/2	1-5/8	6	**DD4065293**	Price
1/2	1/2	2-1/8	4	**DD4065302**	Price
1/2	1/2	3-1/4	6	**DD4065320**	Price
5/8	5/8	1-5/8	3-1/2	**DD4065370**	Price
5/8	5/8	3-1/4	6	**DD4065410**	Price
3/4	3/4	1-5/8	4	**DD4065470**	Price
3/4	3/4	3-1/4	6	**DD4065500**	Price

RAPIDKUT® 6 Flute Solid Carbide 45° Helix End Mills



Center Cutting • nACo Coated for Increased Tool Life

- For material over 50 Rc
- Increased core diameter for added strength
- Used for light finishing cuts
- Made from premium submicron grain carbide
- Tolerances +.000/-.002”

nACO

Dia. (in.)	Shank Dia. (in.)	Flute Length	OAL (in.)	Radius	Order No.	Price
1/8	1/8	1/2	1-1/2	.010	**DD5016794**	Price
3/16	3/16	5/8	2	.010	**DD5016786**	Price
1/4	1/4	3/4	2-1/2	.015	**DD5016787**	Price
5/16	5/16	13/16	2-1/2	.020	**DD5016788**	Price
3/8	3/8	1	2-1/2	.020	**DD5016789**	Price

Dia. (in.)	Shank Dia. (in.)	Flute Length	OAL (in.)	Radius	Order No.	Price
1/2	1/2	1	3	.025	**DD5016790**	Price
5/8	5/8	1-1/4	3-1/2	.030	**DD5016791**	Price
3/4	3/4	1-1/2	4	.035	**DD5016792**	Price
1	1	1-1/2	4	.035	**DD5016793**	Price

FULLERTON TOOL Solid Carbide End Mills

Series 3600



- Cutter diameter tolerance: +.0000 /-.002”
- Shank diameter tolerance: h6
- Good for use in: steels, stainless, high temp alloys, and titanium
- Center cuttting

No. of Flutes - 5						
Size (in.)	Shank Dia. (in.)	LOC (in.)	OAI (in.)	Radius	Order No.	Price
1/4	1/4	3/8	2-1/2	.015	**FT8536200**	Price
1/4	1/4	3/8	2-1/2	None	**FT8536244**	Price
1/4	1/4	1	3	.015	**FT8536201**	Price
1/4	1/4	1	3	None	**FT8536245**	Price
6mm	6mm	20mm	76mm	None	**FT8536280**	Price
6mm	6mm	20mm	76mm	0.50mm	**FT8536281**	Price
6mm	6mm	20mm	76mm	1.0mm	**FT8536282**	Price

No. of Flutes - 7						
Size (in.)	Shank Dia. (in.)	LOC (in.)	OAI (in.)	Radius	Order No.	Price
3/8	3/8	3/4	2-1/2	None	**FT8536246**	Price
3/8	3/8	3/4	2-1/2	.015	**FT8536202**	Price
3/8	3/8	1-1/8	3	.015	**FT8536203**	Price
1/2	1/2	5/8	2-1/2	.015	**FT8536208**	Price
1/2	1/2	5/8	2-1/2	.030	**FT8536209**	Price
1/2	1/2	5/8	2-1/2	.060	**FT8536210**	Price
1/2	1/2	1	3	None	**FT8536266**	Price
1/2	1/2	1	3	.015	**FT8536267**	Price
1/2	1/2	1	3	.030	**FT8536268**	Price
1/2	1/2	1	3	.060	**FT8536269**	Price
1/2	1/2	1-1/4	3	None	**FT8536275**	Price
1/2	1/2	1-1/4	3	.015	**FT8536276**	Price
1/2	1/2	1-1/4	3	.030	**FT8536277**	Price
1/2	1/2	1-1/4	3	.120	**FT8536279**	Price
1/2	1/2	1-1/2	4	None	**FT8536253**	Price
1/2	1/2	1-1/2	4	.015	**FT8536211**	Price
1/2	1/2	1-1/2	4	.030	**FT8536212**	Price
1/2	1/2	1-1/2	4	.060	**FT8536213**	Price
8mm	8mm	22mm	76mm	None	**FT8536283**	Price
8mm	8mm	22mm	76mm	0.50mm	**FT8536284**	Price
8mm	8mm	22mm	76mm	1.0mm	**FT8536285**	Price
8mm	8mm	30mm	76mm	0.50mm	**FT8536291**	Price
10mm	10mm	20mm	64mm	0.50mm	**FT8536204**	Price
10mm	10mm	30mm	76mm	None	**FT8536249**	Price
10mm	10mm	30mm	76mm	0.50mm	**FT8536205**	Price
12mm	12mm	16mm	63mm	0.50mm	**FT8536286**	Price
12mm	12mm	36mm	100mm	None	**FT8536251**	Price
12mm	12mm	16mm	63mm	1.0mm	**FT8536206**	Price

No. of Flutes - 7						
Size (in.)	Shank Dia. (in.)	LOC (in.)	OAI (in.)	Radius	Order No.	Price
12mm	12mm	16mm	63mm	2.50mm	**FT8536287**	Price
12mm	12mm	36mm	100mm	0.50mm	**FT8536288**	Price
12mm	12mm	36mm	100mm	1.0mm	**FT8536207**	Price

No. of Flutes - 9						
Size (in.)	Shank Dia. (in.)	LOC (in.)	OAI (in.)	Radius	Order No.	Price
5/8	5/8	3/4	3-1/2	None	**FT8536254**	Price
5/8	5/8	3/4	3-1/2	.030	**FT8536214**	Price
5/8	5/8	3/4	3-1/2	.060	**FT8536215**	Price
5/8	5/8	1-7/8	5	.030	**FT8536216**	Price
5/8	5/8	1-7/8	5	.060	**FT8536217**	Price
3/4	3/4	1	4	None	**FT8536258**	Price
3/4	3/4	1	4	.060	**FT8536220**	Price
3/4	3/4	1	4	.090	**FT8536221**	Price
3/4	3/4	1	4	.120	**FT8536222**	Price
3/4	3/4	1-5/8	4	None	**FT8236270**	Price
3/4	3/4	1-5/8	4	.015	**FT8536271**	Price
3/4	3/4	1-5/8	4	.060	**FT8536272**	Price
3/4	3/4	1-5/8	4	.090	**FT8536273**	Price
3/4	3/4	1-5/8	4	.120	**FT8536274**	Price
3/4	3/4	2-1/4	5	None	**FT8536259**	Price
3/4	3/4	2-1/4	5	.060	**FT8536223**	Price
3/4	3/4	2-1/4	5	.090	**FT8536224**	Price
3/4	3/4	2-1/4	5	.120	**FT8536225**	Price
1	1	1-1/4	4	.060	**FT8536238**	Price
1	1	1-1/4	4	.090	**FT8536239**	Price
1	1	1-1/4	4	.120	**FT8536240**	Price
1	1	3	6	None	**FT8536265**	Price
1	1	3	6	.060	**FT8536241**	Price
1	1	3	6	.090	**FT8536242**	Price
1	1	3	6	.120	**FT8536243**	Price
16mm	16mm	20mm	89mm	None	**FT8536256**	Price
16mm	16mm	20mm	89mm	1.50mm	**FT8536218**	Price
16mm	16mm	48mm	125mm	None	**FT8536257**	Price
16mm	16mm	48mm	125mm	1.50mm	**FT8536219**	Price
20mm	20mm	25mm	100mm	1.50mm	**FT8536226**	Price
20mm	20mm	25mm	100mm	2.50mm	**FT8536227**	Price
20mm	20mm	25mm	100mm	3.0mm	**FT8536228**	Price
20mm	20mm	60mm	125mm	1.50mm	**FT8536229**	Price
20mm	20mm	60mm	125mm	2.50mm	**FT8536230**	Price
20mm	20mm	60mm	125mm	3.0mm	**FT8536231**	Price
25mm	25mm	32mm	100mm	1.50mm	**FT8536232**	Price
25mm	25mm	32mm	100mm	2.50mm	**FT8536233**	Price
25mm	25mm	32mm	100mm	3.0mm	**FT8536234**	Price
25mm	25mm	75mm	150mm	1.50mm	**FT8536235**	Price
25mm	25mm	75mm	150mm	2.50mm	**FT8536236**	Price
25mm	25mm	75mm	150mm	3.0mm	**FT8536237**	Price

PCT 5 Flute Solid Carbide Ball Nose End Mills

Eccentric OD



- Silver-Exx® (AlTiCrN) coated
- 35° Helix
- PCT List #558

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Reach (in.)	Order No.	Price
1/4	1/4	3/8	4	2-1/8	**CW8023915**	Price
1/4	1/4	1/2	2	-	**CW8023920**	Price
1/4	1/4	3/4	2-1/2	-	**CW8023925**	Price
1/4	1/4	1	3	-	**CW8023930**	Price
5/16	5/16	1/2	2	-	**CW8023940**	Price
5/16	5/16	1	3	-	**CW8023960**	Price
3/8	3/8	1/2	2	-	**CW8023975**	Price
3/8	3/8	1/2	3	1-1/8	**CW8023985**	Price
3/8	3/8	1/2	4	2-1/8	**CW8023995**	Price
3/8	3/8	1	2-1/2	-	**CW8024000**	Price
3/8	3/8	1	3	-	**CW8024010**	Price
7/16	7/16	1	2-3/4	-	**CW8024025**	Price
1/2	1/2	5/8	2-1/2	-	**CW8024040**	Price
1/2	1/2	5/8	4	2-1/8	**CW8024060**	Price
1/2	1/2	5/8	6	3-3/8	**CW8024070**	Price

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Reach (in.)	Order No.	Price
1/2	1/2	1-1/4	3	-	**CW8024075**	Price
1/2	1/2	2	4	-	**CW8024080**	Price
5/8	5/8	3/4	3	-	**CW8024105**	Price
5/8	5/8	3/4	4	1-5/8	**CW8024115**	Price
5/8	5/8	3/4	6	3-3/8	**CW8024135**	Price
5/8	5/8	1-5/8	3-1/2	-	**CW8024140**	Price
3/4	3/4	1	3	-	**CW8024165**	Price
3/4	3/4	1	4	2	**CW8024170**	Price
3/4	3/4	1	6	4	**CW8024190**	Price
3/4	3/4	1-5/8	4	-	**CW8024195**	Price
3/4	3/4	2-1/4	5	-	**CW8024200**	Price
1	1	1-1/4	6	3-3/8	**CW8024250**	Price
1	1	1-1/4	7	4-3/8	**CW8024260**	Price
1	1	2	4-1/2	-	**CW8024270**	Price
1	1	2-1/4	5	-	**CW8024280**	Price

OMEGA® M706 Solid Carbide 6 Flute End Mills for Hard Materials

MADE IN THE USA

Square End and Corner Radius

- Six high-strength flutes increase cutting edge engagement for maximum stability
- Exceptionally thick core minimizes tool deflection and produces superior finishes
- Can run wet or dry based on work material
- Round or Weldon shank
- 45° Helix, TiAlN-X coated



					.015		.020		.030		None	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Shank Type	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	1/4	1-1/2	Round Shank	DD4062983	Price	-	-	-	-	DD4063190	Price
1/8	1/8	1/2	1-1/2	Round Shank	DD4062791	Price	-	-	-	-	DD4062781	Price
3/16	3/16	5/16	2	Round Shank	DD4062984	Price	-	-	-	-	DD4063192	Price
3/16	3/16	9/16	2	Round Shank	DD4062792	Price	-	-	-	-	DD4062782	Price
1/4	1/4	3/8	2-1/2	Round Shank	-	-	DD4062985	Price	-	-	DD4063194	Price
1/4	1/4	3/4	2-1/2	Round Shank	-	-	DD4062793	Price	DD4062838	Price	DD4062783	Price
1/4	1/4	3/4	2-1/2	Weldon Shank	-	-	DD4030568	Price	DD4062847	Price	DD4030491	Price
5/16	5/16	13/16	2-1/2	Round Shank	-	-	-	-	DD4062794	Price	DD4062784	Price
3/8	3/8	1/2	2-1/2	Round Shank	-	-	-	-	DD4062986	Price	DD4063196	Price
3/8	3/8	1	2-1/2	Round Shank	-	-	-	-	DD4062795	Price	DD4062785	Price
3/8	3/8	1	2-1/2	Weldon Shank	-	-	-	-	DD4030570	Price	DD4030493	Price
1/2	1/2	5/8	3	Round Shank	-	-	-	-	DD4062987	Price	DD4063198	Price
1/2	1/2	1-1/4	3	Round Shank	-	-	-	-	DD4062797	Price	DD4062787	Price
1/2	1/2	1-1/4	3	Weldon Shank	-	-	-	-	DD4030572	Price	DD4030495	Price
5/8	5/8	3/4	3-1/2	Round Shank	-	-	-	-	DD4062988	Price	DD4063199	Price
5/8	5/8	1-5/8	3-1/2	Round Shank	-	-	-	-	DD4062798	Price	DD4062788	Price
5/8	5/8	1-5/8	3-1/2	Weldon Shank	-	-	-	-	DD4030574	Price	DD4030497	Price
3/4	3/4	1	4	Round Shank	-	-	-	-	DD4062989	Price	DD4063200	Price
3/4	3/4	1-5/8	4	Round Shank	-	-	-	-	DD4062799	Price	DD4062789	Price
3/4	3/4	1-5/8	4	Weldon Shank	-	-	-	-	DD4030575	Price	DD4030498	Price
1	1	2	4	Round Shank	-	-	-	-	DD4062800	Price	DD4062790	Price
1	1	2	4	Weldon Shank	-	-	-	-	DD4062801	Price	DD4030499	Price

OMEGA® M706N Solid Carbide 6 Flute End Mills for Hard Materials

MADE IN THE USA

Square End and Corner Radius with Neck Relief

- Neck relief for more clearance in cavities and when machining against tight wall
- Six high-strength flutes increase cutting edge engagement for maximum stability
- Exceptionally thick core minimizes tool deflection and produces superior finishes
- Can run wet or dry according to work material
- Round or Weldon shank
- 45° Helix, TiAlN-X coated



						.020		.030		None	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	Neck Relief (in.)	OAL (in.)	Shank Type	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	1/4	1/2	1-1/2	Round Shank	-	-	-	-	DD4062820	Price
3/16	3/16	5/16	9/16	2	Round Shank	-	-	-	-	DD4062821	Price
1/4	1/4	3/8	1-1/8	2-1/2	Round Shank	DD4062903	Price	DD4062904	Price	DD4062822	Price
5/16	5/16	7/16	1-1/8	2-1/2	Round Shank	DD4062905	Price	DD4062906	Price	DD4062823	Price
3/8	3/8	1/2	1-1/8	2-1/2	Round Shank	DD4062907	Price	DD4062908	Price	DD4062824	Price
3/8	3/8	1/2	1-1/8	2-1/2	Weldon Shank	DD4031103	Price	DD4031104	Price	DD4031092	Price
1/2	1/2	5/8	1-3/8	3	Round Shank	DD4062910	Price	DD4062911	Price	DD4062825	Price
1/2	1/2	5/8	1-3/8	3	Weldon Shank	DD4031192	Price	DD4031193	Price	DD4031093	Price
3/4	3/4	1	1-3/4	4	Round Shank	-	-	DD4062914	Price	DD4062827	Price
3/4	3/4	1	1-3/4	4	Weldon Shank	-	-	DD4031197	Price	DD4031095	Price

OMEGA® M725N & M726N Solid Carbide 5 & 6 Flute End Mills with Neck Relief

For Hard Materials

MADE IN THE USA

- Neck relief for better clearance in deep cavities
- Mills steels heat treated up to 58-62 HRC with or without coolant
- Five or six high strength flutes for maximum stablility and less chatter
- 50° Helix creates a high shear plane for better efficiency and chip control



Radius - .015							
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	Reach (in.)	OAL (in.)	No. of Flutes	Order No.	Price
1/8	1/8	1/4	1/2	2-1/2	5	DD4069353	Price
1/8	1/8	1/4	1-1/8	2-1/2	5	DD4069491	Price
3/16	3/16	3/8	5/8	3	5	DD4069357	Price
3/16	3/16	3/8	1-3/8	3	5	DD4069493	Price
1/4	1/4	5/8	7/8	3	6	DD4069362	Price
1/4	1/4	5/8	1-3/8	3	6	DD4069495	Price
1/4	1/4	5/8	7/8	4	6	DD4069365	Price
1/4	1/4	5/8	2-3/8	4	6	DD4069498	Price

Radius - .030							
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	Reach (in.)	OAL (in.)	No. of Flutes	Order No.	Price
3/8	3/8	7/8	1-1/8	3	6	DD4069372	Price
3/8	3/8	7/8	1-3/8	3	6	DD4069502	Price
3/8	3/8	7/8	1-1/8	4	6	DD4069375	Price

Radius - .030							
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	Reach (in.)	OAL (in.)	No. of Flutes	Order No.	Price
3/8	3/8	7/8	2-3/8	4	6	DD4069505	Price
1/2	1/2	5/8	7/8	3	6	DD4069378	Price
1/2	1/2	5/8	1-3/8	3	6	DD4069508	Price
1/2	1/2	1-1/8	1-3/8	4	6	DD4069386	Price
1/2	1/2	1-1/8	2-1/4	4	6	DD4069516	Price
1/2	1/2	1-1/8	1-3/8	5	6	DD4069390	Price
1/2	1/2	1-1/8	3-1/4	5	6	DD4069520	Price
5/8	5/8	1-1/8	1-3/8	4	6	DD4069398	Price
5/8	5/8	1-1/8	2-1/8	4	6	DD4069528	Price
5/8	5/8	1-3/8	1-5/8	5	6	DD4069402	Price
5/8	5/8	1-3/8	3-1/8	5	6	DD4069532	Price
3/4	3/4	1-5/8	1-7/8	6	6	DD4069414	Price
3/4	3/4	1-5/8	3-7/8	6	6	DD4069544	Price

OMEGA® M725 & M726 Solid Carbide 5 & 6 Flute End Mills

Best in Hardened Materials
Good in Stainless Steels
Good in Carbon and Tool Steels
Good in Cast Iron

Square, Corner Radius • For Hard Materials

MADE IN THE USA

- Mills steels heat treated up to 58-62 HRC with or without coolant
- Optomized geometries, stronger cutting edges, superior balance
- Five or six high strength flutes for maximum stability and less chatter
- 50° Helix creates a high shear plane for better efficiency and chip control
- AlTiN-X coating



						None		.015		.030		.060	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL	No. of Flutes	Shank Type	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	1/2	1-1/2	5	Round Shank	DD4069052	Price	DD4069053	Price	-	-	-	-
1/8	1/8	1/4	1-1/2	5	Round Shank	DD4069050	Price	DD4069051	Price	-	-	-	-
3/16	3/16	5/16	2	5	Round Shank	DD4069054	Price	DD4069055	Price	-	-	-	-
3/16	3/16	9/16	2	5	Round Shank	DD4069056	Price	DD4069057	Price	-	-	-	-
1/4	1/4	3/4	2-1/2	6	Round Shank	DD4069058	Price	DD4069059	Price	DD4069060	Price	-	-
1/4	1/4	1-1/4	3	6	Round Shank	DD4069061	Price	DD4069062	Price	DD4069063	Price	-	-
3/8	3/8	7/8	2-1/2	6	Round Shank	DD4069070	Price	DD4069071	Price	DD4069072	Price	-	-
3/8	3/8	7/8	2-1/2	6	Weldon Shank	DD4069220	Price	DD4069221	Price	DD4069222	Price	-	-
3/8	3/8	1-1/4	3	6	Round Shank	DD4069073	Price	DD4069074	Price	DD4069075	Price	-	-
3/8	3/8	1-1/4	3	6	Weldon Shank	DD4069223	Price	DD4069224	Price	DD4069225	Price	-	-
3/8	3/8	2	4	6	Round Shank	DD4069076	Price	DD4069077	Price	DD4069078	Price	-	-
3/8	3/8	2	4	6	Weldon Shank	DD4069226	Price	DD4069227	Price	DD4069228	Price	-	-
1/2	1/2	1	3	6	Round Shank	DD4069079	Price	DD4069080	Price	DD4069081	Price	DD4069082	Price
1/2	1/2	1	3	6	Weldon Shank	DD4069229	Price	DD4069230	Price	DD4069231	Price	DD4069232	Price
1/2	1/2	1-1/4	3	6	Round Shank	DD4069083	Price	DD4069084	Price	DD4069085	Price	DD4069086	Price
1/2	1/2	1-1/4	3	6	Weldon Shank	DD4069233	Price	DD4069234	Price	DD4069235	Price	DD4069236	Price
1/2	1/2	1-5/8	3-1/2	6	Round Shank	DD4069087	Price	DD4069088	Price	DD4069089	Price	DD4069090	Price
1/2	1/2	1-5/8	3-1/2	6	Weldon Shank	DD4069237	Price	DD4069238	Price	DD4069239	Price	DD4069240	Price
1/2	1/2	2-1/8	4	6	Round Shank	DD4069091	Price	DD4069092	Price	DD4069093	Price	DD4069094	Price
1/2	1/2	2-1/8	4	6	Weldon Shank	DD4069241	Price	DD4069242	Price	DD4069243	Price	DD4069244	Price
1/2	1/2	2-5/8	5	6	Round Shank	DD4069095	Price	DD4069096	Price	DD4069097	Price	DD4069098	Price
1/2	1/2	2-5/8	5	6	Weldon Shank	DD4069245	Price	DD4069246	Price	DD4069247	Price	DD4069248	Price
5/8	5/8	1-3/8	3-1/2	6	Round Shank	DD4069099	Price	-	-	DD4069101	Price	DD4069102	Price
5/8	5/8	1-3/8	3-1/2	6	Weldon Shank	DD4069249	Price	-	-	DD4069251	Price	DD4069252	Price
5/8	5/8	1-7/8	4	6	Round Shank	DD4069103	Price	-	-	DD4069105	Price	DD4069106	Price
5/8	5/8	1-7/8	4	6	Weldon Shank	DD4069253	Price	-	-	DD4069255	Price	DD4069256	Price
5/8	5/8	2-5/8	5	6	Round Shank	DD4069107	Price	-	-	DD4069109	Price	DD4069110	Price
5/8	5/8	2-5/8	5	6	Weldon Shank	DD4069257	Price	-	-	DD4069259	Price	DD4069260	Price
3/4	3/4	1-5/8	4	6	Round Shank	DD4069111	Price	-	-	DD4069113	Price	DD4069114	Price
3/4	3/4	1-5/8	4	6	Weldon Shank	DD4069261	Price	-	-	DD4069263	Price	DD4069264	Price
3/4	3/4	2-5/8	5	6	Round Shank	DD4069115	Price	-	-	DD4069117	Price	DD4069118	Price
3/4	3/4	2-5/8	5	6	Weldon Shank	DD4069265	Price	-	-	DD4069267	Price	DD4069268	Price
3/4	3/4	3-3/8	6	6	Round Shank	DD4069119	Price	-	-	DD4069121	Price	DD4069122	Price
3/4	3/4	3-3/8	6	6	Weldon Shank	DD4069269	Price	-	-	DD4069271	Price	DD4069272	Price

INCONEX© M806 Solid Carbide 6 Flute End Mills

MADE IN THE USA



Round or Weldon Shanks • Corner Radius

- Six high strength flutes for higher productivity and longer life in high temp alloys
- Unique cutting edge design keeps chip shorter for smooth evacuation
- Tough carbide core for durability in hard-to-machine metals
- 30° Helix
- AlCrNX Coated

					.015		.030	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Shank Type	Order No.	Price	Order No.	Price
1/4	1/4	3/8	2	Round	DD4268731	Price	-	-
1/4	1/4	3/4	2-1/2	Round	DD4268732	Price	-	-
5/16	5/16	7/16	2	Round	DD4268733	Price	-	-
5/16	5/16	13/16	2-1/2	Round	DD4268734	Price	-	-
3/8	3/8	1/2	2	Round	-	-	DD4268735	Price
3/8	3/8	7/8	2-1/2	Round	-	-	DD4268736	Price
3/8	3/8	7/8	2-1/2	Weldon	-	-	DD4268737	Price
3/8	3/8	1-1/4	3	Round	-	-	DD4268738	Price
3/8	3/8	1-1/4	3	Weldon	-	-	DD4268739	Price
1/2	1/2	5/8	2-1/2	Round	-	-	DD4268740	Price
1/2	1/2	1	3	Round	-	-	DD4268891	Price
1/2	1/2	1	3	Weldon	-	-	DD4268892	Price
1/2	1/2	1-1/4	3	Round	-	-	DD4268741	Price
1/2	1/2	1-1/4	3	Weldon	-	-	DD4268742	Price
1/2	1/2	1-5/8	3-1/2	Round	-	-	DD4268743	Price
1/2	1/2	1-5/8	3-1/2	Weldon	-	-	DD4268744	Price
5/8	5/8	1-3/8	3-1/2	Round	-	-	DD4268746	Price
5/8	5/8	1-3/8	3-1/2	Weldon	-	-	DD4268747	Price
5/8	5/8	2	4	Round	-	-	DD4268748	Price
5/8	5/8	2	4	Weldon	-	-	DD4268749	Price
3/4	3/4	1-5/8	4	Round	-	-	DD4268751	Price
3/4	3/4	1-5/8	4	Weldon	-	-	DD4268752	Price
3/4	3/4	2-3/8	5	Round	-	-	DD4268753	Price
3/4	3/4	2-3/8	5	Weldon	-	-	DD4268754	Price
1	1	1-1/2	4	Round	-	-	DD4268755	Price
1	1	1-1/2	4	Weldon	-	-	DD4268756	Price
1	1	2-1/2	5	Round	-	-	DD4268757	Price
1	1	2-1/2	5	Weldon	-	-	DD4268758	Price

6 Flute Solid Carbide Ball Nose End Mills

Variable Helix • Eccentric OD

- Variantra ® Supral (TiAlCN) coated
- 45° Chamfer
- PCT List #0374



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Reach (in.)	Order No.	Price
1/4	1/4	3/4	2-1/2	-	**CW8019310**	Price
1/4	1/4	3/8	4	2-1/8	**CW8019290**	Price
3/8	3/8	1	2-1/2	-	**CW8019390**	Price
3/8	3/8	1/2	4	2-1/8	**CW8019350**	Price
3/8	3/8	1/2	6	3-1/8	**CW8019360**	Price
1/2	1/2	1	3	-	**CW8019450**	Price
1/2	1/2	5/8	4	2-1/8	**CW8019420**	Price
1/2	1/2	5/8	6	3-1/8	**CW8019430**	Price
5/8	5/8	1-5/8	3-1/2	-	**CW8019510**	Price
5/8	5/8	3/4	5	2-5/8	**CW8019480**	Price
5/8	5/8	3/4	6	3-3/8	**CW8019490**	Price
3/4	3/4	1	5	2-5/8	**CW8019540**	Price
3/4	3/4	1	6	3-3/8	**CW8019550**	Price
3/4	3/4	1-1/2	4	-	**CW8019570**	Price
1	1	1-1/4	5	2-5/8	**CW8019600**	Price
1	1	1-1/4	7	4-1/4	**CW8019620**	Price
1	1	1-1/2	4	-	**CW8019630**	Price

6 Flute Solid Carbide End Mills

Variable Helix • Eccentric OD

- Variantra ® Supral (TiAlCN) coated
- 45° Chamfer
- PCT List #0374



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Reach (in.)	Order No.	Price
1/4	1/4	3/4	2-1/2	-	**CW8019305**	Price
1/4	1/4	3/8	4	2-1/8	**CW8019285**	Price
3/8	3/8	1/2	4	2-1/8	**CW8019345**	Price
3/8	3/8	1/2	6	3-1/8	**CW8019355**	Price
3/8	3/8	1	2-1/2	-	**CW8019385**	Price
1/2	1/2	5/8	4	2-1/8	**CW8019415**	Price
1/2	1/2	5/8	6	3-1/8	**CW8019425**	Price
1/2	1/2	1	3	-	**CW8019445**	Price
5/8	5/8	3/4	5	2-5/8	**CW8019475**	Price
5/8	5/8	3/4	6	3-3/8	**CW8019485**	Price
5/8	5/8	1-5/8	3-1/2	-	**CW8019505**	Price
3/4	3/4	1	5	2-5/8	**CW8019535**	Price
3/4	3/4	1	6	3-3/8	**CW8019545**	Price
3/4	3/4	1-1/2	4	-	**CW8019565**	Price
1	1	1-1/4	5	2-5/8	**CW8019595**	Price
1	1	1-1/4	7	4-1/4	**CW8019615**	Price
1	1	1-1/2	4	-	**CW8019625**	Price

TuffCut® XR 7 Flute Carbide End Mills

Necked • Altima® Blaze Coated

- Uniquely designed heli-pitch grinding geometry promotes continual, vibration free cutting regardless of depth of cut or width of cut
- 38° Helix
- M.A. Ford List #180N



Size (in.)	Shank Dia, (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Neck Length (in.)	Order No.	Price
1/2	1/2	1-1/4	4	.030	2-1/8	**DD1618526**	Price
5/8	5/8	1-1/4	4	.030	2-1/8	**DD1618546**	Price
3/4	3/4	1-7/8	5	.030	3	**DD1618588**	Price
1	1	3	6	.045	4	**DD1618614**	Price

Solid Carbide Finishing Square End Mills

7 Flute • Victory™ Grade

- Center cutting
- Cylindrical shanks
- AlTiN coated for longer tool life



Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
3/8	3/8	7/8	2-1/2	**WK405577254**	Price
1/2	1/2	1	3	**WK405577258**	Price
5/8	5/8	1-1/4	3-1/2	**WK405577259**	Price
3/4	3/4	1-1/2	4	**WK405577260**	Price

TuffCut® XR 7 Flute Carbide End Mills

With Chipbreaker • Altima® Blaze Coated

- Uniquely designed heli-pitch grinding geometry promotes continual, vibration free cutting regardless of depth of cut or width of cut
- 38° Helix
- M.A. Ford List #180CB



Size (in.)	Shank Dia, (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Order No.	Price
1/4	1/4	1-1/4	3	.030	**DD1618913**	Price
3/8	3/8	1-1/2	4	.030	**DD1618917**	Price
1/2	1/2	2	4	.030	**DD1618921**	Price
5/8	5/8	2-1/4	5	.030	**DD1618925**	Price
3/4	3/4	3	6	.030	**DD1618929**	Price

TuffCut® XR 7 Flute Carbide End Mills

Altima® Blaze Coated

- Uniquely designed heli-pitch grinding geometry promotes continual, vibration free cutting regardless of depth of cut or width of cut
- 38° Helix
- M.A. Ford List #180



Size (in.)	Shank Dia, (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Order No.	Price
1/4	1/4	3/8	2	None	**DD1618900**	Price
1/4	1/4	3/8	2	.015	**DD1618901**	Price
1/4	1/4	3/4	2-1/2	None	**DD1618902**	Price
1/4	1/4	3/4	2-1/2	.015	**DD1618903**	Price
1/4	1/4	1-1/4	3	None	**DD1618904**	Price
3/8	3/8	1/2	2-1/2	None	**DD1618908**	Price
3/8	3/8	1/2	2-1/2	.015	**DD1618909**	Price
3/8	3/8	1/2	2-1/2	.030	**DD1618932**	Price
3/8	3/8	1	2-1/2	None	**DD1618910**	Price
3/8	3/8	1	2-1/2	.015	**DD1618911**	Price
3/8	3/8	1	2-1/2	.030	**DD1618934**	Price
3/8	3/8	1-1/2	4	None	**DD1618912**	Price
1/2	1/2	5/8	3	None	**DD1618512**	Price
1/2	1/2	5/8	3	.015	**DD1518515**	Price
1/2	1/2	5/8	3	.030	**DD1518517**	Price
1/2	1/2	5/8	3	.060	**DD1618519**	Price
1/2	1/2	1-1/4	3	None	**DD1518514**	Price
1/2	1/2	1-1/4	3	.015	**DD1518516**	Price
1/2	1/2	1-1/4	3	.030	**DD1518518**	Price
1/2	1/2	1-1/4	3	.060	**DD1618520**	Price
1/2	1/2	2	4	None	**DD1618916**	Price
5/8	5/8	3/4	3-1/2	None	**DD1618532**	Price
5/8	5/8	3/4	3-1/2	.015	**DD1618535**	Price
5/8	5/8	3/4	3-1/2	.030	**DD1618537**	Price
5/8	5/8	1-1/4	3-1/2	None	**DD1618534**	Price
5/8	5/8	1-1/4	3-1/2	.015	**DD1518536**	Price
5/8	5/8	1-1/4	3-1/2	.030	**DD1618538**	Price
5/8	5/8	2-1/4	5	None	**DD1618920**	Price
3/4	3/4	1	4	None	**DD1618570**	Price
3/4	3/4	1	4	.030	**DD1618575**	Price
3/4	3/4	1	4	.060	**DD1618577**	Price
3/4	3/4	1-1/2	4"	None	**DD1518572**	Price
3/4	3/4	1-1/2	4	.030	**DD1618576**	Price
3/4	3/4	1-1/2	4	.060	**DD1618578**	Price
3/4	3/4	2-1/4	5	None	**DD1618924**	Price

6 Flute High Performance Carbide End Mills



- 40° Helix
- TiAlN Coated
- C2 grade permium sub-micron grade carbide with 10% cobalt
- Right hand cut, right hand spiral
- Diameter tolerance +.000 / -.002”
- Suitable for any ferrous materials, including heat treated mold, die steels up to 60 HRC

Size (in.)	Shank Dia. (in.)	LOC (in.)	OAL (in.)	Radius	Order No.	Price
1/4	1/4	1/2	2	.010-.020	**DC25292201133**	Price
1/4	1/4	3/4	2-1/2	.010-.020	**DC25292301133**	Price
1/4	1/4	1-1/8	3	.010-.020	**DC25292401133**	Price
1/4	1/4	1-1/2	4	.010-.020	**DC25292501133**	Price
1/4	1/4	1-1/2	6	.010-.020	**DC25292601133**	Price
5/16	5/16	13/16	2-1/2	.010-.020	**DC25292301153**	Price
5/16	5/16	1-1/8	3	.010-.020	**DC25292401153**	Price
5/16	5/16	1-5/8	4	.010-.020	**DC25292501153**	Price
5/16	5/16	1-1/2	6	.010-.020	**DC25292601153**	Price
3/8	3/8	5/8	2	.010-.020	**DC25292201173**	Price
3/8	3/8	1	2-1/2	.010-.020	**DC25292301173**	Price
3/8	3/8	1-1/8	3	.010-.020	**DC25292401173**	Price
3/8	3/8	1-1/2	6	.010-.020	**DC25292601173**	Price
3/8	3/8	1-3/4	4	.010-.020	**DC25292501173**	Price
1/2	1/2	5/8	2-1/2	.010-.020	**DC25292201203**	Price
1/2	1/2	1	3	.010-.020	**DC25292301203**	Price
1/2	1/2	1-1/2	4	.010-.020	**DC25292401193**	Price
1/2	1/2	1-1/2	6	.010-.020	**DC25292601203**	Price
1/2	1/2	2	4	.010-.020	**DC25292401203**	Price
1/2	1/2	3	6	.010-.020	**DC25292501203**	Price
5/8	5/8	1	3	.010-.020	**DC25292201223**	Price
5/8	5/8	1-1/4	3-1/2	.010-.020	**DC25292301223**	Price
5/8	5/8	1-1/2	6	.010-.020	**DC25292601223**	Price
5/8	5/8	2-1/4	5	.010-.020	**DC25292401223**	Price
5/8	5/8	3-1/4	6	.010-.020	**DC25292501223**	Price
3/4	3/4	1	3	.010-.020	**DC25292201243**	Price
3/4	3/4	1-1/2	4	.010-.020	**DC25292301243**	Price
3/4	3/4	1-1/2	6	.010-.020	**DC25292601233**	Price
3/4	3/4	2-1/4	5	.010-.020	**DC25292401243**	Price
3/4	3/4	3-1/4	6	.010-.020	**DC25292501243**	Price
3/4	3/4	4	7	.010-.020	**DC25292601243**	Price
1	1	1-1/2	6	.010-.020	**DC25292601253**	Price
1	1	1-3/4	4	.010-.020	**DC25292301263**	Price
1	1	2-1/4	5	.010-.020	**DC25292401263**	Price
1	1	3-1/4	6	.010-.020	**DC25292501263**	Price
1	1	4	7	.010-.020	**DC25292601263**	Price

POW•R•PATH® IPC7 Solid Carbide 7 Flute HEM End Mills

Best for HEM

With Chip Management System

- Specifically designed to maiximize High Efficiency Machining (HEM) techniques
- Chip Management System (CMS) for maximum chip evacuation and longer tool life
- Corner radius with CMS
- 40° Helix
- AlCrNX Coated



S *Best using HEM in* **Titanium Alloys** P *Best using HEM in* **Carbon and Tool Steels**
M *Best using HEM in* **Stainless Steels** K *Best using HEM in* **Cast Iron**

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
3/8	3/8	1-1/8	3	**DD4463630**	Price
3/8	3/8	1-1/2	3-1/2	**DD4463631**	Price
1/2	1/2	1-1/4	3	**DD4463410**	Price
1/2	1/2	1-1/4	3	**DD4463411**	Price
1/2	1/2	1-1/2	3-1/2	**DD4463634**	Price
1/2	1/2	1-1/2	3-1/2	**DD4463635**	Price
1/2	1/2	1-3/4	4	**DD4463412**	Price
1/2	1/2	1-3/4	4	**DD4463413**	Price
1/2	1/2	2	4	**DD4463638**	Price
1/2	1/2	2	4	**DD4463639**	Price
5/8	5/8	1-1/4	3-1/2	**DD4463640**	Price
5/8	5/8	1-1/4	3-1/2	**DD4463641**	Price
5/8	5/8	1-9/16	3-1/2	**DD4463414**	Price
5/8	5/8	1-9/16	3-1/2	**DD4463415**	Price
5/8	5/8	1-7/8	4	**DD4463644**	Price
5/8	5/8	1-7/8	4	**DD4463645**	Price
5/8	5/8	2-3/16	4	**DD4463416**	Price
5/8	5/8	2-3/16	4	**DD4463417**	Price
5/8	5/8	2-1/2	5	**DD4463648**	Price
5/8	5/8	2-1/2	5	**DD4463649**	Price
3/4	3/4	1-1/2	4	**DD4463650**	Price
3/4	3/4	1-1/2	4	**DD4463651**	Price
3/4	3/4	1-7/8	4-1/2	**DD4463418**	Price
3/4	3/4	1-7/8	4-1/2	**DD4463419**	Price
3/4	3/4	2-1/4	5	**DD4463654**	Price
3/4	3/4	2-1/4	5	**DD4463655**	Price
3/4	3/4	2-5/8	5	**DD4463656**	Price
3/4	3/4	2-5/8	5	**DD4463657**	Price
3/4	3/4	3	6	**DD4463658**	Price
3/4	3/4	3	6	**DD4463659**	Price

enDURO® M527 Solid Carbide 7 Flute Variable Index End Mills

- Advanced cutting edge design for higher metal removal in hard-to-machine materials
- Unique vibration dampening geometry for maximum tool stability
- Specifically designed to run wet or dry on today’s high speed, high efficiency machines
- 40° Helix
- AlCrNX Coating

Great for HEM



				.015		.030		.060		.125		None	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
3/8	3/8	1/2	2	**DD4265921**	Price	**DD4265922**	Price	**DD4265923**	Price	-	-	**DD4265920**	Price
3/8	3/8	1-1/4	3	**DD4265977**	Price	**DD4265978**	Price	**DD4265979**	Price	-	-	**DD4265976**	Price
3/8	3/8	7/8	2-1/2	**DD4265969**	Price	**DD4265970**	Price	**DD4265971**	Price	-	-	**DD4265968**	Price
1/2	1/2	5/8	2-1/2	**DD4266001**	Price	**DD4266002**	Price	**DD4266003**	Price	**DD4266005**	Price	**DD4266000**	Price
1/2	1/2	1-1/4	3	**DD4266046**	Price	**DD4266047**	Price	**DD4266048**	Price	**DD4266050**	Price	**DD4266045**	Price
1/2	1/2	1-5/8	3-1/2	**DD4266055**	Price	**DD4266056**	Price	**DD4266057**	Price	**DD4266059**	Price	**DD4266054**	Price
1/2	1/2	2-1/8	4	**DD4266073**	Price	**DD4266074**	Price	**DD4266075**	Price	**DD4266077**	Price	**DD4266072**	Price
1/2	1/2	2-5/8	5	**DD4266082**	Price	**DD4266083**	Price	**DD4266084**	Price	**DD4266086**	Price	**DD4266081**	Price
5/8	5/8	3/4	3	-	-	**DD4266092**	Price	**DD4266093**	Price	**DD4266095**	Price	**DD4266090**	Price
5/8	5/8	1-3/8	3-1/2	-	-	**DD4266132**	Price	**DD4266133**	Price	**DD4266135**	Price	**DD4266130**	Price
5/8	5/8	2-1/8	4	-	-	**DD4266142**	Price	**DD4266143**	Price	**DD4266145**	Price	**DD4266140**	Price
5/8	5/8	2-5/8	5	-	-	**DD4266162**	Price	**DD4266163**	Price	**DD4266165**	Price	**DD4266160**	Price
5/8	5/8	3-1/4	6	-	-	**DD4266172**	Price	**DD4266173**	Price	**DD4266175**	Price	**DD4266170**	Price
3/4	3/4	1	3	-	-	**DD4266182**	Price	**DD4266183**	Price	**DD4266185**	Price	**DD4266180**	Price
3/4	3/4	1-5/8	4	-	-	**DD4266222**	Price	**DD4266223**	Price	**DD4266225**	Price	**DD4266220**	Price
3/4	3/4	2-3/8	5	-	-	**DD4266232**	Price	**DD4266233**	Price	**DD4266235**	Price	**DD4266230**	Price
3/4	3/4	3-1/4	6	-	-	**DD4266252**	Price	**DD4266253**	Price	**DD4266255**	Price	**DD4266250**	Price
3/4	3/4	4-1/8	7	-	-	**DD4266262**	Price	**DD4266263**	Price	**DD4266265**	Price	**DD4266260**	Price

POW•R•PATH® IPT7 Solid Carbide 7 Flute HEM End Mills



- Specifically designed to maximize High Efficiency Machining (HEM) techniques
- Unique flute design for maximum metal removal rates
- Thick core for maximum stability and tool life
- 40° Helix
- AlCrNX coated

Best for HEM

S *Best using HEM in* **Titanium Alloys**
P *Best using HEM in* **Carbon and Tool Steels**
M *Best using HEM in* **Stainless Steels**
K *Best using HEM in* **Cast Iron**

				.030		.060		.125		None	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
3/16	3/16	3/8	2	DD4463478	Price	-	-	-	-	DD4463476	Price
3/16	3/16	9/16	2	DD4463481	Price	-	-	-	-	DD4463479	Price
3/16	3/16	3/4	2-1/2	DD4463484	Price	-	-	-	-	DD4463482	Price
1/4	1/4	1/2	2	DD4463487	Price	DD4463488	Price	-	-	DD4463485	Price
1/4	1/4	3/4	2-1/2	DD4463491	Price	DD4463492	Price	-	-	DD4463489	Price
1/4	1/4	1	3	DD4463495	Price	DD4463496	Price	-	-	DD4463493	Price
3/8	3/8	3/4	2-1/2	DD4463499	Price	DD4463500	Price	-	-	DD4463497	Price
3/8	3/8	15/16	2-1/2	DD4463504	Price	DD4463505	Price	-	-	DD4463502	Price
3/8	3/8	1-1/8	3	DD4463509	Price	DD4463510	Price	-	-	DD4463507	Price
3/8	3/8	1-1/2	3-1/2	DD4463514	Price	DD4463515	Price	-	-	DD4463512	Price
1/2	1/2	1	3	DD4463517	Price	DD4463518	Price	DD4463520	Price	DD4463516	Price
1/2	1/2	1-1/4	3-1/4	DD4463215	Price	DD4463216	Price	DD4463218	Price	DD4463214	Price
1/2	1/2	1-1/2	3-1/2	DD4463527	Price	DD4463528	Price	DD4463530	Price	DD4463526	Price
1/2	1/2	1-3/4	4	DD4463220	Price	-	-	DD4463238	Price	DD4463219	Price
1/2	1/2	2	4	DD4463537	Price	DD4463538	Price	DD4463540	Price	DD4463536	Price
1/2	1/2	2-1/4	4	DD4463542	Price	DD4463543	Price	DD4463545	Price	DD4463541	Price
5/8	5/8	1-1/4	3-1/2	DD4463547	Price	DD4463548	Price	DD4463550	Price	DD4463546	Price
5/8	5/8	1-9/16	4	DD4463242	Price	DD4463244	Price	DD4463247	Price	DD4463240	Price
5/8	5/8	1-7/8	4	DD4463559	Price	DD4463560	Price	DD4463562	Price	DD4463558	Price
5/8	5/8	2-3/16	4-1/2	DD4463258	Price	DD4463262	Price	DD4463264	Price	DD4463253	Price
5/8	5/8	2-1/2	5	DD4463569	Price	DD4463570	Price	DD4463571	Price	DD4463568	Price
3/4	3/4	1-1/2	4	DD4463573	Price	DD4463574	Price	DD4463575	Price	DD4463572	Price
3/4	3/4	1-7/8	4-1/2	DD4463270	Price	DD4463271	Price	DD4463275	Price	DD4463269	Price
3/4	3/4	2-1/4	5	DD4463586	Price	DD4463587	Price	DD4463589	Price	DD4463585	Price
3/4	3/4	2-5/8	5	DD4463593	Price	DD4463594	Price	DD4463596	Price	DD4463592	Price
3/4	3/4	3	6	DD4463598	Price	DD4463599	Price	DD4463600	Price	DD4463597	Price

RAPIDKUT® Multiple Flute Solid Carbide Roughing End Mills

Center Cutting

- Form relieved on high strength carbide for excellent profile milling
- Made from premium submicron grain carbide
- Cutting diameter tolerance: +.000/-.002”



					Uncoated		AlTiN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price
1/4	1/4	3/4	2-1/2	4	DD8115960	Price	DD8155960	Price
5/16	5/16	13/16	2-1/2	4	DD8115961	Price	DD8155961	Price
3/8	3/8	1	2-1/2	4	DD8115962	Price	DD8155962	Price
1/2	1/2	1-1/4	3	4	DD8115963	Price	DD8155963	Price
5/8	5/8	1-1/4	3-1/2	4	DD8115964	Price	DD8155964	Price
3/4	3/4	1-1/2	4	4	DD8115965	Price	DD8155965	Price
1	1	1-1/2	4	4	DD8115966	Price	-	-
1	1	1-1/2	4	5	-	-	DD8155966	Price

PREMIER HP HIGH PERFORMANCE Multi-Flute 45° Helix Carbide Roughing End Mills with TiAlN Coating

- Suitable for low hardened material (under HRc45), stainless steel
- Excellent performance in slotting cutting conditions



Style - Standard					
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
3/16	1/4	5/16	2-3/8	DD25EH96901201	Price
1/4	1/4	9/16	2-3/8	DD25EH96901601	Price
5/16	5/16	9/16	2-3/8	DD25EH96902001	Price
3/8	3/8	13/16	2-5/8	DD25EH96902401	Price
1/2	1/2	15/16	2-7/8	DD25EH96903201	Price
5/8	5/8	1-3/16	3-7/8	DD25EH96904001	Price
3/4	3/4	1-7/16	3-7/8	DD25EH96904801	Price
1	1	1-11/16	4-5/8	DD25EH96906401	Price

Style - Long Reach					
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/4	1/4	3/4	2-1/2	DD25EH970016	Price
5/16	5/16	3/4	2-1/2	DD25EH970020	Price
3/8	3/8	7/8	2-1/2	DD25EH970024	Price
1/2	1/2	1	3	DD25EH970032	Price
5/8	5/8	1-1/4	4	DD25EH970040	Price
3/4	3/4	1-5/8	4-3/8	DD25EH970048	Price

IPT9 POW.R.PATH 9 Flute End Mills

Corner Radius for High Efficiency Machining (HEM) in Wide Range of Materials

Best for HEM

- AlCrNX coated
- Increased feed rates and excellent surface finish
- Unique design runs up to 3.5X the tool diameter deep, generating high metal removal rates



S *Best using HEM in* **Titanium Alloys** P *Best using HEM in* **Carbon and Tool Steels**
M *Best using HEM in* **Stainless Steels** K *Best using HEM in* **Cast Iron**

Size (in.)	Shank Dia. (in.)	Max Axial Depth x D	LOC (in.)	OAL (in.)	Radius (in.)	Order No.	Price
1/4	1/4	2xD	1/2	2	.030	**DD4463933**	Price
1/4	1/4	2.5xD	5/8	2-1/2	.030	**DD4463935**	Price
1/4	1/4	3xD	3/4	2-1/2	.030	**DD4463937**	Price
1/4	1/4	3.5xD	7/8	3	.030	**DD4463939**	Price
3/8	3/8	2xD	3/4	2-1/2	.030	**DD4463941**	Price
3/8	3/8	2.5xD	15/16	2-1/2	.030	**DD4463943**	Price
3/8	3/8	3xD	1-1/8	3	.030	**DD4463945**	Price
3/8	3/8	3.5xD	1-5/16	3-1/2	.030	**DD4463947**	Price
1/2	1/2	2xD	1	3	.030	**DD4463948**	Price
1/2	1/2	2xD	1	3	.060	**DD4463949**	Price
1/2	1/2	2.5xD	1-1/4	3-1/4	.030	**DD4463950**	Price
1/2	1/2	2.5xD	1-1/4	3-1/4	.060	**DD4463951**	Price
1/2	1/2	3xD	1-1/2	3-1/2	.030	**DD4463952**	Price
1/2	1/2	3xD	1-1/2	3-1/2	.060	**DD4463953**	Price
1/2	1/2	3.5xD	1-3/4	4	.030	**DD4463954**	Price
1/2	1/2	3.5xD	1-3/4	4	.060	**DD4463955**	Price
5/8	5/8	2xD	1-1/4	3-1/2	.030	**DD4463956**	Price
5/8	5/8	2xD	1-1/4	3-1/2	.060	**DD4463957**	Price
5/8	5/8	2.5xD	1-9/16	4	.030	**DD4463958**	Price
5/8	5/8	2.5xD	1-9/16	4	.060	**DD4463959**	Price
5/8	5/8	3xD	1-7/8	4	.030	**DD4463960**	Price
5/8	5/8	3xD	1-7/8	4	.060	**DD4463961**	Price
5/8	5/8	3.5xD	2-3/16	4-1/2	.030	**DD4463962**	Price
5/8	5/8	3.5xD	2-3/16	4-1/2	.060	**DD4463963**	Price
3/4	3/4	2xD	1-1/2	4	.030	**DD4463964**	Price
3/4	3/4	2xD	1-1/2	4	.060	**DD4463965**	Price
3/4	3/4	2xD	1-1/2	4	.125	**DD4463966**	Price
3/4	3/4	2.5xD	1-7/8	4-1/2	.030	**DD4463967**	Price
3/4	3/4	2.5xD	1-7/8	4-1/2	.060	**DD4463968**	Price
3/4	3/4	2.5xD	1-7/8	4-1/2	.125	**DD4463969**	Price
3/4	3/4	3xD	2-1/4	5	.030	**DD4463970**	Price
3/4	3/4	3xD	2-1/4	5	.060	**DD4463971**	Price
3/4	3/4	3xD	2-1/4	5	.125	**DD4463972**	Price
3/4	3/4	3.5xD	2-5/8	5	.030	**DD4463973**	Price
3/4	3/4	3.5xD	2-5/8	5	.060	**DD4463974**	Price
3/4	3/4	3.5xD	2-5/8	5	.125	**DD4463975**	Price

IPT11 POW.R.PATH 11 Flute End Mills

Corner Radius for High Efficiency Machining (HEM) in Wide Range of Materials

Best for HEM

- AlCrNX coated
- Built for results with 11 cutting edges to yield incredible feed rates
- IPT11 has a very thick core for extra stability when machining materials up to 3.5X the tool diameter deep
- NOTE: The IPT11 is NOT designed for light duty machines and should only be run in machines with adequate spindle torque and horsepower



S *Best using HEM in* **Titanium Alloys** P *Best using HEM in* **Carbon and Tool Steels**
M *Best using HEM in* **Stainless Steels** K *Best using HEM in* **Cast Iron**

Size (in.)	Shank Dia. (in.)	Max Axial Depth x D	LOC (in.)	OAL (in.)	Radius (in.)	Order No.	Price
1/2	1/2	2xD	1	3	.030	**DD4464185**	Price
1/2	1/2	2xD	1	3	.060	**DD4464186**	Price
1/2	1/2	2.5xD	1-1/4	3-1/4	.030	**DD4464187**	Price
1/2	1/2	2.5xD	1-1/4	3-1/4	.060	**DD4464188**	Price
1/2	1/2	3xD	1-1/2	3-1/2	.030	**DD4464189**	Price
1/2	1/2	3xD	1-1/2	3-1/2	.060	**DD4464190**	Price
1/2	1/2	3.5xD	1-3/4	4	.030	**DD4464191**	Price
1/2	1/2	3.5xD	1-3/4	4	.060	**DD4464192**	Price
5/8	5/8	2xD	1-1/4	3-1/2	.030	**DD4464193**	Price
5/8	5/8	2xD	1-1/4	3-1/2	.060	**DD4464194**	Price
5/8	5/8	2.5xD	1-9/16	4	.030	**DD4464195**	Price
5/8	5/8	2.5xD	1-9/16	4	.060	**DD4464196**	Price
5/8	5/8	3xD	1-7/8	4	.030	**DD4464197**	Price
5/8	5/8	3xD	1-7/8	4	.060	**DD4464198**	Price
5/8	5/8	3.5xD	2-3/16	4-1/2	.030	**DD4464199**	Price
5/8	5/8	3.5xD	2-3/16	4-1/2	.060	**DD4464200**	Price
3/4	3/4	2xD	1-1/2	4	.030	**DD4464201**	Price
3/4	3/4	2xD	1-1/2	4	.060	**DD4464202**	Price
3/4	3/4	2xD	1-1/2	4	.125	**DD4464203**	Price
3/4	3/4	2.5xD	1-7/8	4-1/2	.030	**DD4464204**	Price
3/4	3/4	2.5xD	1-7/8	4-1/2	.060	**DD4464205**	Price
3/4	3/4	2.5xD	1-7/8	4-1/2	.125	**DD4464206**	Price
3/4	3/4	3xD	2-1/4	5	.030	**DD4464207**	Price
3/4	3/4	3xD	2-1/4	5	.060	**DD4464208**	Price
3/4	3/4	3xD	2-1/4	5	.125	**DD4464209**	Price
3/4	3/4	3.5xD	2-5/8	5	.030	**DD4464210**	Price
3/4	3/4	3.5xD	2-5/8	5	.060	**DD4464211**	Price
3/4	3/4	3.5xD	2-5/8	5	.125	**DD4464212**	Price

IPT13 POW.R.PATH 13 Flute End Mills

Corner Radius for High Efficiency Machining (HEM) in Wide Range of Materials

Best for HEM



- AlCrNX coated
- Built for results with 13 cutting edges to yield incredible feed rates
- IPT13 has a very thick core for extra stability when machining materials up to 3.5X the tool diameter deep
- NOTE: The IPT13 is NOT designed for light duty machines and should only be run in machines with adequate spindle torque and horsepower

Size (in.)	Shank Dia. (in.)	Max Axial Depth x D	LOC (in.)	OAL (in.)	Radius (in.)	Order No.	Price
1/2	1/2	2xD	1	3	.030	**DD4464271**	Price
1/2	1/2	2xD	1	3	.060	**DD4464272**	Price
1/2	1/2	2.5xD	1-1/4	3-1/4	.030	**DD4464273**	Price
1/2	1/2	2.5xD	1-1/4	3-1/4	.060	**DD4464274**	Price
1/2	1/2	3xD	1-1/2	3-1/2	.030	**DD4464275**	Price
1/2	1/2	3xD	1-1/2	3-1/2	.060	**DD4464276**	Price
1/2	1/2	3.5xD	1-3/4	4	.030	**DD4464277**	Price
1/2	1/2	3.5xD	1-3/4	4	.060	**DD4464278**	Price
5/8	5/8	2xD	1-1/4	3-1/2	.030	**DD4464279**	Price
5/8	5/8	2xD	1-1/4	3-1/2	.060	**DD4464280**	Price
5/8	5/8	2.5xD	1-9/16	4	.030	**DD4464281**	Price
5/8	5/8	2.5xD	1-9/16	4	.060	**DD4464282**	Price
5/8	5/8	3xD	1-7/8	4	.030	**DD4464283**	Price
5/8	5/8	3xD	1-7/8	4	.060	**DD4464284**	Price
5/8	5/8	3.5xD	2-3/16	4-1/2	.030	**DD4464285**	Price

S *Best using HEM in* **Titanium Alloys** P *Best using HEM in* **Carbon and Tool Steels**
M *Best using HEM in* **Stainless Steels** K *Best using HEM in* **Cast Iron**

Size (in.)	Shank Dia. (in.)	Max Axial Depth x D	LOC (in.)	OAL (in.)	Radius (in.)	Order No.	Price
5/8	5/8	3.5xD	2-3/16	4-1/2	.060	**DD4464286**	Price
3/4	3/4	2xD	1-1/2	4	.030	**DD4464287**	Price
3/4	3/4	2xD	1-1/2	4	.060	**DD4464288**	Price
3/4	3/4	2xD	1-1/2	4	.125	**DD4464289**	Price
3/4	3/4	2.5xD	1-7/8	4-1/2	.030	**DD4464290**	Price
3/4	3/4	2.5xD	1-7/8	4-1/2	.060	**DD4464291**	Price
3/4	3/4	2.5xD	1-7/8	4-1/2	.125	**DD4464292**	Price
3/4	3/4	3xD	2-1/4	5	.030	**DD4464293**	Price
3/4	3/4	3xD	2-1/4	5	.060	**DD4464294**	Price
3/4	3/4	3xD	2-1/4	5	.125	**DD4464295**	Price
3/4	3/4	3.5xD	2-5/8	5	.030	**DD4464296**	Price
3/4	3/4	3.5xD	2-5/8	5	.125	**DD4464297**	Price
3/4	3/4	3.5xD	2-5/8	5	.125	**DD4464298**	Price

3 Flute Roughing-Finishing End Mills with Corner Radius

- Chipbreaker style
- Designed to produce smooth part finish



					Uncoated		TiAlN	
Dia. (in.)	Shank	LOC	OAL	Radius	Order No.	Price	Order No.	Price
1/8	1/8	1/2	1-1/2	.005-.010	**DC1510000**	Price	**DC1520000**	Price
3/16	3/16	5/8	2	.005-.010	**DC1510001**	Price	**DC1520001**	Price
1/4	1/4	3/4	2-1/2	.005-.010	**DC1510002**	Price	**DC1520002**	Price
5/16	5/16	13/16	2-1/2	.005-.010	**DC1510003**	Price	**DC1520003**	Price
3/8	3/8	1	2-1/2	.010-.015	**DC1510004**	Price	**DC1520004**	Price
7/16	7/16	1	2-3/4	.010-.015	**DC1510005**	Price	**DC1520005**	Price
1/2	1/2	1	3	.010-.015	**DC1510006**	Price	**DC1520006**	Price
5/8	5/8	1-1/4	3-1/2	.015-.020	**DC1510007**	Price	**DC1520007**	Price
3/4	3/4	1-1/2	4	.015-.020	**DC1510008**	Price	**DC1520008**	Price

RAPIDKUT® Multiple Flute Solid Carbide Rougher/Finisher End Mills

Center Cutting

- Can remove material at high roughing speeds while producing finishes close to conventional end mills, due to the chip-breaker form
- Made from premium submicron grain carbide
- Cutting diameter tolerance: +.000/-.002”



					Uncoated		AlTiN	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price	Order No.	Price
1/4	1/4	3/4	2-1/2	4	**DD8113477**	Price	**DD8153477**	Price
5/16	5/16	13/16	2-1/2	4	**DD8113478**	Price	**DD8153478**	Price
3/8	3/8	1	2-1/2	4	**DD8113479**	Price	**DD8153479**	Price
1/2	1/2	1-1/4	3	4	**DD8113480**	Price	**DD8153480**	Price
5/8	5/8	1-1/4	3-1/2	4	**DD8113481**	Price	**DD8153481**	Price
3/4	3/4	1-1/2	4	4	**DD8113482**	Price	**DD8153482**	Price
1	1	1-1/2	4	5	**DD8113483**	Price	**DD8153483**	Price

3 Flute Ball Nose Carbide Roughing-Finishing End Mills

- Chipbreaker style



				Uncoated		TiAlN	
Dia. (in.)	Shank	LOC	OAL	Order No.	Price	Order No.	Price
1/8	1/8	1/2	1-1/2	**DC1510010**	Price	**DC1520010**	Price
3/16	3/16	5/8	2	**DC1510011**	Price	**DC1520011**	Price
1/4	1/4	3/4	2-1/2	**DC1510012**	Price	**DC1520012**	Price
5/16	5/16	13/16	2-1/2	**DC1510013**	Price	**DC1520013**	Price
3/8	3/8	1	2-1/2	**DC1510014**	Price	**DC1520014**	Price
7/16	7/16	1	2-3/4	**DC1510015**	Price	**DC1520015**	Price
1/2	1/2	1	3	**DC1510016**	Price	**DC1520016**	Price
5/8	5/8	1-1/4	3-1/2	**DC1510017**	Price	**DC1520017**	Price
3/4	3/4	1-1/2	4	**DC1510018**	Price	**DC1520018**	Price

M104 Solid Carbide 4 Flute Square End Rougher/Finisher End Mills

- Higher metal removal and smoother finishes than traditional roughers
- Exclusive flute design reduces cutting forces, creating smaller chips
- Reduces tool chatter from faster chip evacuation
- Round shank, 30° helix, AlTiN coated

MADE IN THE USA



Best in Carbon and Tool Steels

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	1/8	1/4	1-1/2	**DD4033290**	Price
1/8	1/8	1/2	1-1/2	**DD4030423**	Price
3/16	3/16	3/8	2	**DD4033296**	Price
3/16	3/16	5/8	2	**DD4030462**	Price
1/4	1/4	1/2	2	**DD4091779**	Price
1/4	1/4	3/4	2-1/2	**DD4098991**	Price
1/4	1/4	1-1/8	3	**DD4033299**	Price
5/16	5/16	1/2	2	**DD4033163**	Price
5/16	5/16	13/16	2-1/2	**DD4030551**	Price
3/8	3/8	5/8	2	**DD4033103**	Price
3/8	3/8	1	2-1/2	**DD4033153**	Price
3/8	3/8	1-1/8	3	**DD4033300**	Price
1/2	1/2	5/8	2-1/2	**DD4033181**	Price
1/2	1/2	1	3	**DD4098961**	Price
1/2	1/2	2	4	**DD4030434**	Price
5/8	5/8	1-1/4	3-1/2	**DD4033157**	Price
5/8	5/8	2-1/4	5	**DD4097343**	Price
3/4	3/4	1	3	**DD4033297**	Price
3/4	3/4	1-1/2	4	**DD4033159**	Price
3/4	3/4	2-1/4	5	**DD4033301**	Price
1	1	1-1/2	4	**DD4033161**	Price
1	1	2-1/4	5	**DD4033302**	Price

Fine Pitch Solid Carbide Roughers

Progressive Unequal Index Geometry

MADE IN THE USA

- For shallow slotting and perpheral milling applications
- Good for difficult to machine & abrasive materials
- Solid C-2 grade premium sub-micron carbide with 10% cobalt
- Right hand cut / right hand spiral
- Weldon flats
- Diameter tolerance: +.000 / -.003”
- Shank tolerance: +.0000 / -.0003”
- Increase feed in speed rates with AlTiN coating



					Uncoated		AlTiN	
Dia.	Shank	LOC	OAL	Flutes	Order No.	Price	Order No.	Price
1/4	1/4	1/2	2	4	**DC1510019**	Price	**DC1520019**	Price
1/4	1/4	3/4	2-1/2	4	**DC1510020**	Price	**DC1520020**	Price
5/16	5/16	1/2	2	4	**DC1510021**	Price	**DC1520021**	Price
5/16	5/16	13/16	2-1/2	4	**DC1510022**	Price	**DC1520022**	Price
3/8	3/8	5/8	2	4	**DC1510023**	Price	**DC1520023**	Price
3/8	3/8	1	2-1/2	4	**DC1510024**	Price	**DC1520024**	Price
7/16	7/16	1	2-3/4	4	**DC1510025**	Price	**DC1520025**	Price
1/2	1/2	5/8	2-1/2	4	**DC1510026**	Price	**DC1520026**	Price
1/2	1/2	1-1/4	3	4	**DC1510027**	Price	**DC1520027**	Price
1/2	1/2	2	4	4	**DC1510028**	Price	**DC1520028**	Price
5/8	5/8	1-5/8	4	4	**DC1510030**	Price	**DC1520030**	Price
5/8	5/8	3/4	3	4	**DC1510029**	Price	**DC1520029**	Price
3/4	3/4	1	3-1/2	4	**DC1510031**	Price	**DC1520031**	Price
3/4	3/4	1-3/4	4	4	**DC1510032**	Price	**DC1520032**	Price
3/4	3/4	2-1/4	5	4	**DC1510034**	Price	**DC1520034**	Price
3/4	3/4	3	6	4	**DC1510036**	Price	**DC1520036**	Price
1	1	2	5	5	**DC1510033**	Price	**DC1520033**	Price
1	1	3-1/4	6	5	**DC1510037**	Price	**DC1520037**	Price
1	1	4-1/8	7	5	**DC1510038**	Price	**DC1520038**	Price
1	1	2-5/8	5	5	**DC1510035**	Price	**DC1520035**	Price

WIDIA Solid Carbide Roughing/ Finishing End Mills

2 Flute • TiAlN Coated



- Center cutting
- Cylindrical shanks
- TiAlN coated for longer tool life

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	1/8	1/2	2	**WK405872797**	Price
3/32	1/8	3/8	1-1/2	**WK405872800**	Price
1/8	1/8	1/2	1-1/2	**WK405872845**	Price
3/16	3/16	5/8	2	**WK405872853**	Price
1/4	1/4	1/2	2	**WK405872858**	Price
1/4	1/4	3/4	2-1/2	**WK405872859**	Price
1/4	1/4	1-1/8	3	**WK405872860**	Price
5/16	5/16	13/16	2-1/2	**WK405872863**	Price
3/8	3/8	1	2-1/2	**WK405872868**	Price
3/8	3/8	1-1/8	3	**WK405872869**	Price
1/2	1/2	1	3	**WK405872889**	Price

STREAKERS® M233 Solid Carbide 3 Flute Roughers

- For high performance machining in aluminum alloys
- Special cutting edge serrations reduce the horsepower needed to plow through aluminum alloys at high metal removal rates
- ZrN coating helps reduce chip packing even in heavy tool engagement cuts

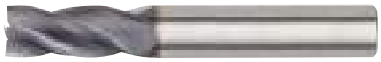


N Best in Aluminum and Non-ferrous

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius (in.)	Order No.	Price
1/4	1/4	3/4	2-1/2	.015	**DD4061108**	Price
1/4	1/4	1	3	.015	**DD4061109**	Price
3/8	3/8	15/16	2-1/2	.015	**DD4061110**	Price
3/8	3/8	1-1/8	3	.015	**DD4061111**	Price
3/8	3/8	1-1/2	3-1/2	.015	**DD4061112**	Price
1/2	1/2	1-1/4	3	.030	**DD4061113**	Price
1/2	1/2	1-1/2	3-1/2	.030	**DD4061114**	Price
1/2	1/2	2	4	.030	**DD4061115**	Price
5/8	5/8	1-1/4	3-1/2	.030	**DD4061116**	Price
5/8	5/8	1-7/8	4	.030	**DD4061117**	Price
3/4	3/4	1-5/8	4	.030	**DD4061118**	Price
3/4	3/4	2-1/4	5	.030	**DD4061119**	Price
1	1	1-1/4	4	.030	**DD4061120**	Price
1	1	2	5	.030	**DD4061121**	Price

WIDIA Solid Carbide Roughing/ Finishing End Mills

4 Flute • TiAlN Coated



- Center cutting
- Cylindrical shanks
- TiAlN coated for longer tool life

Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Radius	Order No.	Price
1/32	1/8	5/64	1-1/2	None	**WK405879054**	Price
1/16	1/8	7/64	1-1/2	None	**WK405879055**	Price
5/64	1/8	3/16	1-1/2	None	**WK405879056**	Price
3/32	1/8	3/8	1-1/2	None	**WK405879057**	Price
3/32	1/8	5/8	2	None	**WK405879058**	Price
7/64	1/8	3/8	1-1/2	None	**WK405879059**	Price
1/8	1/8	1/4	1-1/2	None	**WK405879060**	Price
1/8	1/8	1/2	1-1/2	None	**WK405879131**	Price
1/8	1/8	3/4	2-1/4	None	**WK405879132**	Price
1/8	1/8	1	3	None	**WK405879133**	Price
5/32	3/16	9/16	2	None	**WK405879135**	Price
3/16	3/16	5/8	2	None	**WK405879136**	Price
3/16	3/16	3/4	2-1/2	None	**WK405879138**	Price
3/16	3/16	1-1/8	3	None	**WK405879139**	Price
7/32	1/4	5/8	2-1/2	None	**WK405879143**	Price
7/32	1/4	7/16	2	None	**WK405879142**	Price
1/4	1/4	1/2	2	None	**WK405879145**	Price
1/4	1/4	3/4	2-1/2	None	**WK405879146**	Price
1/4	1/4	3/4	2-1/2	.015	**WK406282447**	Price
1/4	1/4	1-1/8	3	None	**WK405879147**	Price
1/4	1/4	1-1/2	4	None	**WK405879148**	Price
5/16	5/16	13/16	2-1/2	None	**WK405879153**	Price
5/16	5/16	1-1/8	3	None	**WK405879154**	Price
5/16	5/16	1-5/8	4	None	**WK405879155**	Price
23/64	3/8	1	2-1/2	None	**WK405879158**	Price
3/8	3/8	1	2-1/2	None	**WK405879160**	Price
3/8	3/8	1-1/8	3	None	**WK405879161**	Price
3/8	3/8	1-3/4	4	None	**WK405879162**	Price
7/16	7/16	1	2-3/4	None	**WK405879167**	Price
1/2	1/2	5/8	2-1/2	None	**WK405879173**	Price
1/2	1/2	1	3	None	**WK405879174**	Price
1/2	1/2	1	3	None	**WK405879527**	Price
1/2	1/2	2	4	None	**WK405879175**	Price
1/2	1/2	2	4	None	**WK405879528**	Price
1/2	1/2	3	6	None	**WK405879176**	Price
1/2	1/2	3	6	None	**WK405879529**	Price
9/16	9/16	1-1/4	3-1/2	None	**WK405879178**	Price
5/8	5/8	1-1/4	3-1/2	None	**WK405879181**	Price
5/8	5/8	2-1/4	5	None	**WK405879182**	Price
5/8	5/8	2-1/4	5	None	**WK405879555**	Price
11/16	3/4	1-3/8	4	None	**WK405879184**	Price
3/4	3/4	1	3	None	**WK405879185**	Price
3/4	3/4	1-1/2	4	None	**WK405879186**	Price
3/4	3/4	1-1/2	4	None	**WK405879558**	Price
3/4	3/4	1-1/2	4	.030	**WK406282538**	Price
3/4	3/4	2-1/4	5	None	**WK405879187**	Price
3/4	3/4	2-1/4	5	None	**WK405879559**	Price
3/4	3/4	3	6	None	**WK405879188**	Price
3/4	3/4	3	6	None	**WK405879560**	Price
7/8	7/8	1-1/2	4	None	**WK405879191**	Price
7/8	7/8	1-1/2	4	None	**WK405879562**	Price
1	1	3	6	None	**WK405879566**	Price
1	1	4	7	None	**WK405879567**	Price

STREAKERS® M233 Solid Carbide 3 Flute Roughers

- For high performance machining in aluminum alloys
- Special cutting edge serrations reduce the horsepower needed to plow through aluminum alloys at high metal removal rates
- ZrN coating helps reduce chip packing even in heavy tool engagement cuts



N Best in Aluminum and Non-ferrous

Size	Shank Dia.	Flute Length	OAL	Radius	Order No.	Price
6mm	6mm	13mm	57mm	0.5mm	**DD4061329**	Price
6mm	6mm	18mm	63mm	0.5mm	**DD4061330**	Price
6mm	6mm	24mm	75mm	0.5mm	**DD4061331**	Price
10mm	10mm	25mm	72mm	0.5mm	**DD4061332**	Price
10mm	10mm	30mm	75mm	0.5mm	**DD4061333**	Price
10mm	10mm	40mm	88mm	0.5mm	**DD4061334**	Price
12mm	12mm	30mm	83mm	1.0mm	**DD4061335**	Price
12mm	12mm	36mm	88mm	1.0mm	**DD4061336**	Price
12mm	12mm	48mm	100mm	1.0mm	**DD4061337**	Price
16mm	16mm	32mm	92mm	1.0mm	**DD4061338**	Price
16mm	16mm	48mm	110mm	1.0mm	**DD4061339**	Price
20mm	20mm	40mm	104mm	1.0mm	**DD4061340**	Price
20mm	20mm	60mm	125mm	1.0mm	**DD4061341**	Price

PREMIER HP HIGH PERFORMANCE Carbide Multi-Flute 20° Helix Long Length Roughing End Mills with TiAlN Coating

For Production — High Performance

- Suitable for high hardened steels, tool steels, alloy steels, mold steels, carbon steels, etc.
- High velocity milling and high stock removal rates
- TiAlN coating increases wear resistance when dry-milling



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Neck Dia.	No. of Flutes	Length Below Shank (in.)	Order No.	Price
1/4	1/4	5/16	2-1/2	.225	3	3/4	**DD25RL203016**	Price
5/16	5/16	3/8	2-1/2	.285	3	1	**DD25RL203020**	Price
3/8	3/8	9/16	2-1/2	.350	3	1-1/8	**DD25RL203024**	Price
1/2	1/2	5/8	3	.460	4	1-1/2	**DD25RL204032**	Price
5/8	5/8	7/8	4	.585	4	2	**DD25RL204040**	Price
3/4	3/4	1	4-3/8	.710	4	2-1/4	**DD25RL204048**	Price
1	1	1	5	.960	5	3	**DD25RL205100**	Price

PREMIER HP HIGH PERFORMANCE Multi-Flute 20° Helix Stub Length Carbide Roughing End Mills with TiAlN Coating



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price
1/4	1/4	5/16	2-1/8	3	**DD25EM666016**	Price
5/16	5/16	3/8	2-1/4	3	**DD25EM666020**	Price
3/8	3/8	9/16	2-1/2	3	**DD25EM666024**	Price
1/2	1/2	5/8	3	4	**DD25EM666032**	Price
5/8	5/8	7/8	3-1/4	4	**DD25EM666040**	Price
3/4	3/4	1	3-3/4	4	**DD25EM666048**	Price

MICRO 100 super carbide Carbide Roughing End Mills

- These 38° helix mills are designed to generate the maximum metal removal rates in most applications
- All tools 3/8" and up have Weldon flats
- ALTiN coated

SHREDDER

AlTiN



Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	No. of Flutes	Order No.	Price
1/4	1/4	1-1/8	3	4	**GE45SHL2504X**	Price
1/4	1/4	3/4	2-1/2	4	**GE45SHR2504X**	Price
5/16	5/16	1-1/8	3	4	**GE45SHL3124X**	Price
5/16	5/16	13/16	2-1/2	4	**GE45SHR3124X**	Price
3/8	3/8	1-1/4	3	4	**GE45SHL3754X**	Price
3/8	3/8	7/8	2-1/2	4	**GE45SHR3754X**	Price
1/2	1/2	1	3	4	**GE45SHR5004X**	Price
1/2	1/2	2	4-1/2	4	**GE45SHL5004X**	Price
5/8	5/8	1-1/4	3-1/2	4	**GE45SHR6254X**	Price
5/8	5/8	2-1/4	5	4	**GE45SHL6254X**	Price
3/4	3/4	1-1/2	4	4	**GE45SHR7504X**	Price
3/4	3/4	2-1/2	5	4	**GE45SHL7504X**	Price
1	1	1-1/2	4	4	**GE45SHR0014X**	Price
1	1	2-1/2	5	4	**GE45SHL0014X**	Price

MONSTER TOOL COMPANY 3 Flute, Coarse Pitch Carbide Roughing End Mills

MADE IN THE USA

- Progressive unequal index geometry
- For rough milling, profiling, and open-ended slots
- ZrN coating offers excellent wear resistance & increased lubricity



					Uncoated		ZrN	
Dia. (in.)	Shank	LOC	OAL	Chamfer	Order No.	Price	Order No.	Price
3/16	3/16	3/4	2	.020	**DC1510048**	Price	**DC1520048**	Price
1/4	1/4	3/4	2-1/2	.020	**DC1510049**	Price	**DC1520049**	Price
5/16	5/16	7/8	2-1/2	.020	**DC1510050**	Price	**DC1520050**	Price
3/8	3/8	1	2-1/2	.020	**DC1510051**	Price	**DC1520051**	Price
1/2	1/2	1-1/4	3	.025	**DC1510052**	Price	**DC1520052**	Price
5/8	5/8	1-1/4	3-1/2	.025	**DC1510053**	Price	**DC1520053**	Price
3/4	3/4	1-5/8	4	.025	**DC1510054**	Price	**DC1520054**	Price
1	1	1-3/4	4	.025	**DC1510055**	Price	-	-

Diameter Tolerance: +0.000 / -0.003"

MONSTER TOOL COMPANY Medium Pitch Solid Carbide Roughers

Progressive Unequal Index Geometry

- Reduced chatter and vibaration
- Maximum material removal rates
- For shallow slotting and perpheral milling applications
- Good for difficult to machine & abrasive materials
- Solid C-2 grade premium sub-micron carbide with 10% cobalt



- Right hand cut / right hand spiral
- Weldon flats
- Diameter tolerance: +.000 / -.003"
- Shank tolerance: +.0000 / -.0003"
- Increase feed in speed rates with AlTiN coating

					Uncoated		AlTiN	
Dia. (in.)	Shank	LOC	OAL	Chamfer	Order No.	Price	Order No.	Price
3/16	3/16	5/8	2	.020	**DC1510040**	Price	**DC1520040**	Price
1/4	1/4	3/4	2-1/2	.020	**DC1510041**	Price	**DC1520041**	Price
5/16	5/16	3/4	2-1/2	.020	**DC1510042**	Price	**DC1520042**	Price
3/8	3/8	7/8	2-1/2	.020	**DC1510043**	Price	**DC1520043**	Price
7/16	7/16	1	4	.025	**DC1510044**	Price	**DC1520044**	Price
1/2	1/2	1-1/4	3	.025	**DC1510045**	Price	**DC1520045**	Price
5/8	5/8	1-5/8	3-1/2	.025	**DC1510046**	Price	**DC1520046**	Price
3/4	3/4	1-5/8	4	.025	**DC1510047**	Price	**DC1520047**	Price
1	1	1-3/4	4	.025	**DC1510039**	Price	**DC1520039**	Price

RAPIDKUT 2 Flute and 4 Flute Drill Mills

60 • 82 • 90 Degree

- Can be used for drilling, slotting, chamfering and profile milling
- Made from premium submicron grain carbide
- Tolerance: + .000 / -.002”





Number of Flutes - 2															
				AlTiN						Uncoated					
				60 Degree		82 Degree		90 Degree		Price		82 Degree		90 Degree	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
.015	1/8	.045	1-1/2	-	-	-	-	HC5120155	Price	-	-	-	-	HC5120150	Price
.020	1/8	.060	1-1/2	-	-	-	-	HC5120165	Price	-	-	-	-	HC5120160	Price
.025	1/8	.075	1-1/2	-	-	-	-	HC5120175	Price	-	-	-	-	HC5120170	Price
.030	1/8	.090	1-1/2	-	-	-	-	HC5120185	Price	-	-	-	-	HC5120180	Price
1/32	1/8	3/32	1-1/2	-	-	-	-	HC5120195	Price	-	-	-	-	HC5120190	Price
.045	1/8	.105	1-1/2	-	-	-	-	HC5120205	Price	-	-	-	-	HC5120200	Price
1/8	1/8	1/2	1-1/2	HC5120295	Price	HC5120305	Price	HC5120315	Price	HC5120290	Price	HC5120300	Price	HC5120310	Price
3/64	1/8	1/8	1-1/2	-	-	-	-	HC5120215	Price	-	-	-	-	HC5120210	Price
.060	1/8	.180	1-1/2	-	-	-	-	HC5120225	Price	-	-	-	-	HC5120220	Price
1/16	1/8	3/16	1-1/2	HC5120235	Price	HC5120245	Price	HC5120255	Price	HC5120230	Price	HC5120240	Price	HC5120250	Price
5/64	1/8	3/16	1-1/2	-	-	-	-	HC5120265	Price	-	-	-	-	HC5120260	Price
3/32	1/8	3/8	1-1/2	HC5120275	Price	-	-	HC5120285	Price	HC5120270	Price	-	-	HC5120280	Price
5/32	3/16	9/16	2	-	-	-	-	HC5120325	Price	-	-	-	-	HC5120320	Price
3/16	3/16	5/8	2	HC5120335	Price	HC5120345	Price	HC5120355	Price	HC5120330	Price	HC5120340	Price	HC5120350	Price
1/4	1/4	3/4	2-1/2	HC5120365	Price	HC5120375	Price	HC5120385	Price	HC5120360	Price	HC5120370	Price	HC5120380	Price
5/16	5/16	13/16	2-1/2	-	-	-	-	HC5120395	Price	-	-	-	-	HC5120390	Price
3/8	3/8	1	2-1/2	HC5120405	Price	HC5120415	Price	HC5120425	Price	HC5120400	Price	HC5120410	Price	HC5120420	Price
7/16	7/16	1	2-3/4	-	-	-	-	DD8356088	Price	-	-	-	-	DD8316088	Price
1/2	1/2	1	3	HC5120435	Price	HC5120445	Price	HC5120455	Price	HC5120430	Price	-	-	HC5120450	Price
1/2	1/2	1-1/8	3-1/8	-	-	-	-	-	-	-	-	HC5120440	Price	-	-
5/8	5/8	1-1/4	3-1/2	-	-	-	-	DD8356090	Price	-	-	-	-	HC5120460	Price
3/4	3/4	1-1/2	4	-	-	-	-	DD8356091	Price	-	-	-	-	HC5120465	Price

Number of Flutes - 4																	
				AlTiN						TiN		Uncoated					
				60 Degree		82 Degree		90 Degree		90 Degree		60 Degree		82 Degree		90 Degree	
Size (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/32	1/8	3/32	1-1/2	HC5140305	Price	-	-	HC5140315	Price	-	-	HC5140300	Price	-	-	HC5140310	Price
3/64	1/8	1/8	1-1/2	HC5140330	Price	-	-	HC5140335	Price	-	-	HC5140320	Price	-	-	HC5140325	Price
1/16	1/8	3/16	1-1/2	HC5140345	Price	HC5140355	Price	HC5140365	Price	HC5140370	Price	HC5140340	Price	HC5140350	Price	HC5140360	Price
5/64	1/8	3/16	1-1/2	HC5140380	Price	HC5140390	Price	HC5140400	Price	-	-	HC5140375	Price	HC5140385	Price	HC5140395	Price
3/32	1/8	3/8	1-1/2	HC5140410	Price	HC5140420	Price	HC5140430	Price	HC5140435	Price	HC5140405	Price	HC5140415	Price	HC5140425	Price
1/8	1/8	1/2	1-1/2	HC5140445	Price	HC5140455	Price	HC5140465	Price	HC5140470	Price	HC5140440	Price	HC5140450	Price	HC5140460	Price
5/32	3/16	9/16	2	HC5140480	Price	-	-	HC5140490	Price	-	-	HC5140475	Price	-	-	HC5140485	Price
3/16	3/16	5/8	2	HC5140500	Price	HC5140510	Price	HC5140520	Price	HC5140525	Price	HC5140495	Price	HC5140505	Price	HC5140515	Price
1/4	1/4	3/4	2-1/2	HC5140535	Price	HC5140545	Price	HC5140555	Price	HC5140560	Price	HC5140530	Price	HC5140540	Price	HC5140550	Price
5/16	5/16	13/16	2-1/2	HC5140570	Price	HC5140580	Price	HC5140590	Price	HC5140595	Price	HC5140565	Price	HC5140575	Price	HC5140585	Price
3/8	3/8	1	2-1/2	HC5140605	Price	HC5140615	Price	HC5140625	Price	HC5140630	Price	HC5140600	Price	HC5140610	Price	HC5140620	Price
7/16	7/16	1	2-3/4	HC5140640	Price	-	-	HC5140650	Price	-	-	HC5140635	Price	-	-	HC5140645	Price
1/2	1/2	1	3	HC5140660	Price	HC5140670	Price	HC5140680	Price	HC5140685	Price	HC5140655	Price	HC5140665	Price	HC5140675	Price
5/8	5/8	1-1/4	3-1/2	HC5140695	Price	HC5140705	Price	HC5140715	Price	HC5140720	Price	HC5140690	Price	HC5140700	Price	HC5140710	Price
3/4	3/4	1-1/2	4	HC5140730	Price	HC5140740	Price	HC5140750	Price	HC5140755	Price	HC5140725	Price	HC5140735	Price	HC5140745	Price

HSS MORSE M PM M42 8% Cobalt Drill Mills

90° Point Angle • 2 Flute • 30° Right Hand Spiral

The drill mill is a new concept in end mill technology. Its basic design lends itself to performing many drilling and milling operations not presently done with the standard square end end mill. Among the many vertical milling machine operations the drill-mill performs are:



- Drilling
- Slotting
- NC milling
- Drilling & slotting
- Profile milling
- Chamfering (internal and external).

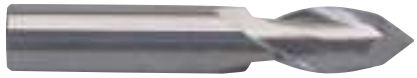
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/4	3/8	1/2	2-5/16	MT2044621	Price
5/16	3/8	9/16	2-5/16	MT2044622	Price
3/8	3/8	9/16	2-5/16	MT2044623	Price
7/16	3/8	13/16	2-1/2	MT2044624	Price
1/2	1/2	1	3	MT2044625	Price
9/16	1/2	1-1/8	3-1/8	MT2044626	Price
5/8	5/8	1-5/16	3-7/16	MT2044627	Price
11/16	5/8	1-5/16	3-7/16	MT2044628	Price

Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
3/4	3/4	1-5/16	3-9/16	MT2044629	Price
13/16	3/4	1-1/2	3-3/4	MT2044630	Price
7/8	3/4	1-1/2	3-3/4	MT2044631	Price
15/16	3/4	1-1/2	3-3/4	MT2044632	Price
1	3/4	1-1/2	3-3/4	MT2044633	Price

MICRO 100 Solid Carbide 2 or 4 Flute Drill Mills

90° Point Angle

- This new design allows many milling and drill operations not presently done with a conventional end mill
- Good for drilling, milling, spotting, chamfering, and countersinking
- 30° Right hand spiral
- Right hand cut
- Diameter tolerances: **1/8 - 1/4 diameters** +.000" -.002"; **5/16 - 3/4 diameters** +.000 -.003"
- T.I.R. maximum .0005"



				Uncoated				AlTiN			
				2 Flute		4 Flute		2 Flute		4 Flute	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/8	1/2	1-1/2	**GE45DM125290**	Price	**GE45DM125490**	Price	**GE45DM125290X**	Price	**GE45DM125490X**	Price
3/16	3/16	5/8	2	**GE45DM187290**	Price	**GE45DM187490**	Price	**GE45DM187290X**	Price	**GE45DM187490X**	Price
1/4	1/4	3/4	2-1/2	**GE45DM250290**	Price	**GE45DM250490**	Price	**GE45DM250290X**	Price	**GE45DM250490X**	Price
5/16	5/16	13/16	2-1/2	**GE45DM312290**	Price	**GE45DM312490**	Price	**GE45DM312290X**	Price	**GE45DM312490X**	Price
3/8	3/8	1	2-1/2	**GE45DM375290**	Price	**GE45DM375490**	Price	**GE45DM375290X**	Price	**GE45DM375490X**	Price
1/2	1/2	1	3	**GE45DM500290**	Price	**GE45DM500490**	Price	**GE45DM500290X**	Price	**GE45DM500490X**	Price
5/8	5/8	1-1/4	3-1/2	**GE45DM625290**	Price	-	-	-	-	-	-
3/4	3/4	1-1/2	4	**GE45DM750290**	Price	-	-	-	-	**GE45DM750490X**	Price

RAPIDKUT 2 Flute, Solid Carbide Marking Cutters - 90° Angle

- Designed for milling legible part numbers where fine detail of character is not necessary
- Burr free 2 flute cutting design has improved strength over single point engravers
- Eccentric relief improves durability over half round style engravers
- Requires less RPM than half round engravers



				Uncoated		AlTiN	
Drill Dia. (in.)	Web Thickness	Flute Length	OAL (in.)	Order No.	Price	Order No.	Price
1/8	.005	.062	1-1/2	**GE2010000**	Price	**GE2010020**	Price
1/8	.010	.058	1-1/2	**GE2010005**	Price	**GE2010025**	Price
3/16	.005	.093	2	**GE2010010**	Price	**GE2010030**	Price
1/4	.005	.125	2-1/2	**GE2010015**	Price	**GE2010035**	Price

FULLERTON Solid Carbide Chamfer Mills

Series 3730 • 60°, 90°, or 120°



- Straight flutes, right hand cut
- Uncoated or TiAlN coated
- 2 Flute chamfer mills designed for deburring and chamfering in small grooves and holes
- 4 Flute chamfer mills improve tool life and finish for profiling and chamfering larger features

No. of Flutes - 2								
					TIALN		Uncoated	
Body Dia.	LOC	OAL	Angle	Description	Order No.	Price	Order No.	Price
1/8	.1080	1-1/2	60°	Single End	**FT8536157**	Price	**FT8536156**	Price
1/8	1/16	1-1/2	90°	Single End	**FT8536161**	Price	**FT8536160**	Price
3/16	.1620	2	60°	Single End	**FT8536166**	Price	**FT8536165**	Price
3/16	3/32	2	90°	Single End	**FT8536174**	Price	**FT8536173**	Price
1/4	.2160	2-1/2	60°	Double End	**FT8536097**	Price	-	-
1/4	.2160	2-1/2	60°	Single End	**FT8536083**	Price	**FT8536141**	Price
1/4	1/8	2-1/2	90°	Double End	**FT8536094**	Price	-	-
1/4	1/8	2-1/2	90°	Single End	**FT8536089**	Price	**FT8536147**	Price
1/4	5/64	2-1/2	120°	Double End	**FT8736101**	Price	-	-
3/8	.3240	2-1/2	60°	Double End	**FT8536098**	Price	-	-
3/8	.3240	2-1/2	60°	Single End	**FT8536085**	Price	**FT8536143**	Price
3/8	3/16	2-1/2	90°	Double End	**FT8536095**	Price	-	-
3/8	3/16	2-1/2	90°	Single End	**FT8536091**	Price	**FT8536149**	Price
3/8	7/64	2-1/2	120°	Double End	**FT8536102**	Price	-	-
1/2	.4330	3	60°	Double End	**FT8536099**	Price	-	-
1/2	.4330	3	60°	Single End	**FT8536087**	Price	**FT8536145**	Price
1/2	1/4	3	90°	Double End	**FT8536096**	Price	-	-
1/2	1/4	3	90°	Single End	**FT8536093**	Price	**FT8536151**	Price
1/2	9/64	3	120°	Double End	**FT8536103**	Price	-	
Price	.6490	4	60°	Single End	**FT8536170**	Price	**FT8536169**	Price
3/4	3/8	4	90°	Single End	**FT8536178**	Price	**FT8536177**	Price

No. of Flutes - 4								
					TIALN		Uncoated	
Body Dia.	LOC	OAL	Angle	Description	Order No.	Price	Order No.	Price
10mm	5mm	64mm	90°	Single End	**FT8592854**	Price	**FT8592526**	Price
12mm	6mm	76mm	90°	Single End	**FT8592855**	Price	**FT8592527**	Price
3mm	1.5mm	38mm	90°	Single End	**FT8592850**	Price	**FT8592522**	Price
4mm	2mm	50mm	90°	Single End	**FT8592851**	Price	**FT8592523**	Price
6mm	3mm	64mm	90°	Single End	**FT8592852**	Price	**FT8592524**	Price
8mm	4mm	64mm	90°	Single End	**FT8592853**	Price	**FT8592525**	Price
1/8	.1080	1-1/2	60°	Single End	**FT8536155**	Price	**FT8536154**	Price
1/8	1/16	1-1/2	90°	Single End	**FT8736159**	Price	**FT8536158**	Price
3/16	.1620	2	60°	Single End	**FT8536164**	Price	**FT8536163**	Price
3/16	3/32	2	90°	Single End	**FT8536172**	Price	**FT8536171**	Price
1/4	.2160	2-1/2	60°	Single End	**FT8536082**	Price	**FT8536140**	Price
1/4	1/8	2-1/2	90°	Single End	**FT8536088**	Price	**FT8536146**	Price
3/8	.3240	2-1/2	60°	Single End	**FT8536084**	Price	**FT8536142**	Price
3/8	3/16	2-1/2	90°	Single End	**FT8536090**	Price	**FT8536148**	Price
1/2	.4330	3	60°	Single End	**FT8536086**	Price	**FT8536144**	Price
1/2	1/4	3	90°	Single End	**FT8536092**	Price	**FT8536150**	Price
1/2	1/4	3	120°	Single End	-	-	**FT8536152**	Price
3/4	.6490	4	60°	Single End	**FT8536168**	Price	**FT8536167**	Price
3/4	3/8	4	90°	Single End	**FT8536176**	Price	**FT8536175**	Price

Corner Rounding End Mills



High Speed Steel or Cobalt

- Cutter diameter: +.002" -.000"
- Shank diameter: +/- .002"
- Overall length: +/- .060"Radius: +/- .001"
- Keo Milling List CRE124-High speed steel
- Keo Milling List CRCO126-Cobalt

- High Speed Steel								
			Keo Milling		Rapidkut		Price	
Radius (in.)	Size (in.)	Shank Dia. (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/32	3/8	3/8	-	-	DK60CR032	Price	DK50RC1	Price
1/32	7/16	3/8	KE1114190	Price	-	-	-	-
1/16	7/16	3/8	KE1114200	Price	DK60CR062	Price	DK50RC2	Price
3/32	1/2	3/8	KE1114210	Price	DK60CR093	Price	DK50RC3	Price
1/8	5/8	1/2	KE1114220	Price	DK60CR125	Price	DK50RC4	Price
5/32	3/4	1/2	KE1114230	Price	DK60CR156	Price	DK50RC5	Price
3/16	7/8	1/2	-	-	DK60CR187	Price	DK50RC6A	Price
3/16	7/8	3/4	KE1114250	Price	DK60CR1871	Price	DK50RC6C	Price
3/16	7/8	1/2	KE1114240	Price	-	-	-	-
1/4	1	1/2	KE1114260	Price	DK60CR250	Price	DK50RC8A	Price
1/4	1	3/4	KE1114270	Price	DK60CR2501	Price	DK50RC8C	Price
5/16	1-1/8	1/2	KE1114280	Price	-	-	DK50RC10A	Price
5/16	1-1/8	5/8	-	-	-	-	DK50RC10B	Price
5/16	1-1/8	3/4	-	-	DK60CR312	Price	DK50RC10C	Price
5/16	1-1/8	7/8	KE1114290	Price	DK60CR3121	Price	DK50RC10D	Price
3/8	1-1/4	1/2	KE1114300	Price	-	-	DK50RC12A	Price
3/8	1-1/4	3/4	-	-	DK60CR375	Price	DK50RC12C	Price
3/8	1-1/4	7/8	KE1114310	Price	DK60CR3751	Price	DK50RC12D	Price
7/16	1-3/8	3/4	KE1114320	Price	DK60CR437	Price	DK50RC14C	Price
7/16	1-3/8	1	KE1114330	Price	DK60CR4371	Price	DK50RC14E	Price
1/2	1-1/2	3/4	KE1114340	Price	DK60CR500	Price	DK50RC16C	Price
1/2	1-1/2	1	KE1114350	Price	DK60CR5001	Price	DK50RC16E	Price
5/8	1-15/16	3/4	KE1114360	Price	DK60CR625	Price	DK50RC20C	Price
5/8	1-15/16	1	KE1114370	Price	DK60CR6251	Price	DK50RC20E	Price
3/4	2-1/4	3/4	KE1114380	Price	DK60CR7501	Price	DK50RC24C	Price
3/4	2-1/4	1	KE1114390	Price	DK60CR7502	Price	DK50RC24E	Price
7/8	2-1/2	3/4	-	-	-	-	DK50RC28C	Price
1	2-3/4	3/4	KE1114396	Price	-	-	-	-
1	2-5/8	3/4	-	-	-	-	DK50RC32C	Price
1	2-3/4	1	KE1114398	Price	-	-	-	-

- Cobalt						
			Keo Milling		ProCut	
Radius (in.)	Size (in.)	Shank Dia. (in.)	Order No.	Price	Order No.	Price
1/32	3/8	3/8	-	-	DK55RC1CO	Price
1/16	7/16	3/8	KE1172751	Price	DK55RC2CO	Price
3/32	1/2	3/8	KE1172752	Price	DK55RC3CO	Price
1/8	5/8	1/2	KE1172753	Price	DK55RC4CO	Price
5/32	3/4	1/2	KE1172754	Price	DK55RC5CO	Price
3/16	7/8	1/2	-	-	DK55RC6ACO	Price
3/16	7/8	3/4	KE1172755	Price	DK55RC6CCO	Price
1/32	7/16	3/8	KE1172750	Price	-	-
1/4	1	1/2	-	-	DK55RC8ACO	Price
1/4	1	3/4	KE1172756	Price	DK55RC8CCO	Price
5/16	1-1/8	1/2	-	-	DK55RC10ACO	Price
5/16	1-1/8	7/8	KE1172757	Price	-	-
3/8	1-1/4	1/2	-	-	DK55RC12ACO	Price
3/8	1-1/4	3/4	-	-	DK55RC12CCO	Price
3/8	1-1/4	7/8	KE1172758	Price	-	-
7/16	1-3/8	3/4	-	-	DK55RC14CCO	Price
1/2	1-1/2	3/4	-	-	DK55RC16CCO	Price
1/2	1-1/2	1	KE1172759	Price	DK55RC16ECO	Price
5/8	1-15/16	3/4	-	-	DK55RC20CCO	Price
5/8	1-15/16	1	-	-	DK55RC20ECO	Price
3/4	2-1/4	3/4	-	-	DK55RC24CCO	Price
3/4	2-1/4	1	-	-	DK55RC24ECO	Price

RAPIDKUT 3 & 4 Flute Solid Carbide Corner Rounding End Mills

Single End





- Can provide uniform finish on corners
- Radius is form relieved
- Made from premium submicron grain carbide
- Tolerances +.000/-.002"

				3 Flute		4 Flute	
Radius (in.)	Minor Dia. (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/32	1/8	3/16	2	DD8316092	Price	DD8316099	Price
1/16	1/8	1/4	2-1/2	DD8316093	Price	DD8316100	Price
3/32	3/16	3/8	2-1/2	DD8316094	Price	DD8316101	Price
1/8	1/4	1/2	3	DD8316095	Price	DD8316102	Price
5/32	5/16	5/8	3-1/2	DD8316096	Price	DD8316103	Price
3/16	3/8	3/4	4	DD8316097	Price	DD8316104	Price
1/4	1/2	1	4	DD8316098	Price	DD8316105	Price

PROCUT Corner Rounding End Mill Sets

High Speed Steel & Cobalt — 8 Pc. Sets



Description	Type of Steel	Order No.	Price
1/16R x 3/8, 3/32R x 3/8, 1/8R x 1/2, 5/32R x 1/2, 3/16R x 1/2, 1/4R x 1/2, 5/16R x 1/2, 3/8R x 1/2	Cobalt	DK55RCCO	Price
1/16R x 3/8, 3/32R x 3/8, 1/8R x 1/2, 5/32R x 1/2, 3/16R x 1/2, 1/4R x 1/2, 5/16R x 1/2, 3/8R x 1/2	High Speed Steel	DK50RC	Price
3/16R x 3/4, 1/4R x 3/4, 5/16R x 3/4, 3/8R x 3/4, 7/16R x 3/4, 1/2R x 3/4, 5/8R x 3/4, 3/4R x 3/4	High Speed Steel	DK50RC34†	Price

† Has 3/4" shanks

MICRO 100 Solid Carbide Corner Rounding End Mills

3 Flute • Double End



- Shank diameter tolerance: -.0001 to -.0003”
- Radius tolerance: +.0000 to -.0005”

				Uncoated		AlTiN	
Radius	Minor Dia.	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price
.010	.060	1/8	2	**GE45CRE125010**	Price	**GE45CRE125010X**	Price
.010	.060	5/16	2-1/2	**-**	-	**GE45CRE312100X**	Price
.0156	.060	1/8	2	**GE45CRE125015**	Price	**GE45CRE125015X**	Price
.020	.060	1/8	2	**GE45CRE125020**	Price	**GE45CRE125020X**	Price
.025	.060	1/8	2	**GE45CRE125025**	Price	**GE45CRE125025X**	Price
.030	.060	1/8	2	**GE45CRE125030**	Price	**GE45CRE125030X**	Price
.0312	.060	1/8	2	**GE45CRE125031**	Price	**GE45CRE125031X**	Price
.035	.060	3/16	2	**GE45CRE187035**	Price	**GE45CRE187035X**	Price
.040	.060	3/16	2	**GE45CRE187040**	Price	**GE45CRE187040X**	Price
.045	.060	3/16	2	**GE45CRE187045**	Price	**GE45CRE187045X**	Price
.0469	.060	3/16	2	**GE45CRE187047**	Price	**GE45CRE187047X**	Price
.050	.060	3/16	2	**GE45CRE187050**	Price	**GE45CRE187050X**	Price
.055	.060	3/16	2	**GE45CRE187055**	Price	**GE45CRE187055X**	Price
.060	.060	3/16	2	**GE45CRE187060**	Price	**GE45CRE187060X**	Price
.0625	.060	3/16	2	**GE45CRE187062**	Price	**GE45CRE187062X**	Price
.070	.060	1/4	2-1/2	**GE45CRE250070**	Price	**GE45CRE250070X**	Price
.075	.060	1/4	2-1/2	**GE45CRE250075**	Price	**GE45CRE250075X**	Price
.0781	.060	1/4	2-1/2	**GE45CRE250078**	Price	**GE45CRE250078X**	Price
.080	.060	1/4	2-1/2	**GE45CRE250080**	Price	**GE45CRE250080X**	Price
.090	.060	1/4	2-1/2	**GE45CRE250090**	Price	**GE45CRE250090X**	Price
.0938	.060	1/4	2-1/2	**GE45CRE250093**	Price	**GE45CRE250093X**	Price
.100	.060	5/16	2-1/2	**GE45CRE312100**	Price	**-**	-
.1094	.060	5/16	2-1/2	**GE45CRE312109**	Price	**GE45CRE312109X**	Price
.125	.060	5/16	2-1/2	**GE45CRE312125**	Price	**GE45CRE312125X**	Price
.1406	.060	3/8	2-1/2	**GE45CRE375140**	Price	**GE45CRE375140X**	Price
.1562	.060	3/8	2-1/2	**GE45CRE375156**	Price	**GE45CRE375156X**	Price
.1875	.120	1/2	3	**GE45CRE500187**	Price	**GE45CRE500187X**	Price
.2031	.120	5/8	3-1/2	**GE45CRE625203**	Price	**GE45CRE625203X**	Price
.2188	.120	5/8	3-1/2	**GE45CRE625218**	Price	**GE45CRE625218X**	Price
.2344	.120	5/8	3-1/2	**GE45CRE625234**	Price	**GE45CRE625234X**	Price
.250	.120	5/8	3-1/2	**GE45CRE625250**	Price	**GE45CRE625250X**	Price
.3125	.120	3/4	4	**GE45CRE750312**	Price	**GE45CRE750312X**	Price
.375	.120	1	4	**GE45CRE001375**	Price	**GE45CRE001375X**	Price
.437	.120	1	4	**GE45CRE001437**	Price	**GE45CRE001437X**	Price

KEO Corner Rounding End Mills- Metric



High Speed Steel

- Cutter diameter: +.002” -.000”
- Shank diameter: +/- .002”
- Overall length: +/- .060”
- Radius: +/- .001”
- Keo Milling List CRM125

Radius	End Size	Size (in.)	Shank Dia. (in.)	OAL (in.)	No. of Flutes	Order No.	Price
1mm	6mm	7/16	3/8	2-1/2	4	**KE1114401**	Price
1.5mm	6.5mm	7/16	3/8	2-1/2	4	**KE1114403**	Price
2mm	7mm	1/2	3/8	2-1/2	4	**KE1114405**	Price
2.5mm	6mm	1/2	3/8	2-1/2	4	**KE1114407**	Price
3mm	7mm	5/8	1/2	3	4	**KE1114409**	Price
3.5mm	7.5mm	3/4	1/2	3	4	**KE1114411**	Price
4mm	8mm	3/4	1/2	3	4	**KE1114413**	Price
4.5mm	10mm	7/8	1/2	3	4	**KE1114415**	Price
5mm	9mm	7/8	1/2	3	4	**KE1114419**	Price
6mm	10.5mm	1	3/4	3-1/4	4	**KE1114421**	Price
7mm	10mm	1	3/4	3-1/4	4	**KE1114423**	Price
8mm	9.5mm	1-1/8	3/4	3-1/4	4	**KE1114425**	Price
9mm	9mm	1-3/8	3/4	3-1/4	4	**KE1114427**	Price
11mm	10mm	1-3/8	1	3-3/4	4	**KE1114431**	Price
10mm	10.5mm	1-3/8	3/4	3-3/4	4	**KE1114429**	Price
12mm	11mm	1-1/2	1	4-1/8	4	**KE1114433**	Price
13mm	9mm	1-1/2	1	4-1/8	4	**KE1114435**	Price
14mm	12mm	1-5/8	1	4-1/8	4	**KE1114437**	Price
15mm	13mm	1-7/8	1	4-1/4	4	**KE1114439**	Price
16mm	14mm	2	1	4-1/4	4	**KE1114441**	Price
17mm	14mm	2-1/8	1	4-1/4	4	**KE1114443**	Price
18mm	16.5mm	2-1/4	1	4-1/4	4	**KE1114445**	Price
20mm	15.5mm	2-5/16	1	4-1/4	4	**KE1114449**	Price

RAPIDKUT 2 Flute Solid Carbide Corner Rounding End Mills

Double End





- Can provide uniform finish on corners
- Radius is form relieved
- Made from premium submicron grain carbide
- Tolerances +.000.-.002”

				Uncoated		AlTiN		TiCN		TiN	
Radius	Minor Dia.	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
.010	.105	1/8	1-1/2	**DD8316293**	Price	**DD8356293**	Price	**DD8346293**	Price	**DD8326293**	Price
.015	.095	1/8	1-1/2	**DD8316294**	Price	**DD8356294**	Price	**DD8346294**	Price	**DD8326294**	Price
.020	.085	1/8	1-1/2	**DD8316295**	Price	**DD8356295**	Price	**DD8346295**	Price	**DD8326295**	Price
.025	.075	1/8	1-1/2	**DD8316296**	Price	**DD8356296**	Price	**DD8346296**	Price	**DD8326296**	Price
.031	.063	1/8	1-1/2	**DD8316297**	Price	**DD8356297**	Price	**DD8346297**	Price	**DD8326297**	Price
.035	.055	1/8	1-1/2	**DD8316298**	Price	**DD8356298**	Price	**DD8346298**	Price	**DD8326298**	Price
.039	.047	1/8	1-1/2	**DD8316299**	Price	**DD8356299**	Price	**DD8346299**	Price	**DD8326299**	Price
.047	.094	3/16	2	**DD8316300**	Price	**DD8356300**	Price	**DD8346300**	Price	**DD8326300**	Price
.050	.088	3/16	2	**DD8316301**	Price	**DD8356301**	Price	**DD8346301**	Price	**DD8326301**	Price
.055	.078	3/16	2	**DD8316302**	Price	**DD8356302**	Price	**DD8346302**	Price	**DD8326302**	Price
.062	.064	3/16	2	**DD8316303**	Price	**DD8356303**	Price	**DD8346303**	Price	**DD8326303**	Price
.072	.106	1/4	2-1/2	**DD8316304**	Price	**DD8356304**	Price	**DD8346304**	Price	**DD8326304**	Price
.078	.094	1/4	2-1/2	**DD8316305**	Price	**DD8356305**	Price	**DD8346305**	Price	**DD8326305**	Price
.093	.064	1/4	2-1/2	**DD8316306**	Price	**DD8356306**	Price	**DD8346306**	Price	**DD8326306**	Price
.100	.050	1/4	2-1/2	**DD8316307**	Price	**DD8356307**	Price	**DD8346307**	Price	**DD8326307**	Price
.109	.095	5/16	2-1/2	**DD8316308**	Price	**DD8356308**	Price	**DD8346308**	Price	**DD8326308**	Price
.118	.077	5/16	2-1/2	**DD8316309**	Price	**DD8356309**	Price	**DD8346309**	Price	**DD8326309**	Price
.125	.063	5/16	2-1/2	**DD8316310**	Price	**DD8356310**	Price	**DD8346310**	Price	**DD8326310**	Price
.140	.095	3/8	2-1/2	**DD8316311**	Price	**DD8356311**	Price	**DD8346311**	Price	**DD8326311**	Price
.156	.063	3/8	2-1/2	**DD8316312**	Price	**DD8356312**	Price	**DD8346312**	Price	**DD8326312**	Price

Woodruff Keyseat Cutters - Shank Type

MADE IN THE USA



High Speed Steel, M-42 Cobalt, Carbide Tipped

- Woodruff keyseat cutters are extremely versatile profile milling cutter
- Although originally designed to mill standard woodruff keyseats, they now satisfy a variety of applications
- Staggered or straight tooth

				High Speed Steel				M-42 Cobalt				Carbide Tipped			
				Staggered		Straight		Staggered		Price		Staggered		Straight	
Cutter Dia. (in.)	Face Width (in.)	OAL (in.)	American Standard No.	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/4	1/16	2-1/16	202	AV4362015	Price	AV4362010	Price	AV4393933	Price	AV4393932	Price	-	-	-	-
5/16	1/16	2-1/16	202-1/2	AV4362025	Price	AV4362020	Price	AV4393939	Price	AV4393938	Price	-	-	-	-
5/16	3/32	2-3/32	302-1/2	AV4363025	Price	AV4363020	Price	AV4393945	Price	AV4393944	Price	-	-	-	-
3/8	1/16	2-1/16	203	AV4362035	Price	AV4362030	Price	AV4393951	Price	AV4393950	Price	-	-	-	-
3/8	3/32	2-3/32	303	AV4363035	Price	AV4363030	Price	AV4393957	Price	AV4393956	Price	-	-	-	-
3/8	1/8	2-1/8	403	AV4364035	Price	AV4364030	Price	AV4393963	Price	AV4393962	Price	-	-	-	-
1/2	1/16	2-1/16	204	AV4362045	Price	AV4362040	Price	AV4393969	Price	AV4393968	Price	AV4293972	Price	AV4293971	Price
1/2	3/32	2-3/32	304	AV4363045	Price	AV4363040	Price	AV4393975	Price	AV4393974	Price	AV4293978	Price	AV4293977	Price
1/2	1/8	2-1/8	404	AV4364045	Price	AV4364040	Price	AV4393987	Price	AV4393986	Price	AV4293984	Price	AV4293983	Price
5/8	3/32	2-3/32	305	AV4363055	Price	AV4363050	Price	AV4393981	Price	AV4393980	Price	AV4293990	Price	AV4293989	Price
5/8	1/8	2-1/8	405	AV4364055	Price	AV4364050	Price	AV4393993	Price	AV4393992	Price	AV4293996	Price	AV4293995	Price
5/8	5/32	2-5/32	505	AV4365055	Price	AV4365050	Price	AV4394005	Price	AV4394004	Price	AV4294002	Price	AV4294001	Price
5/8	3/16	2-3/16	605	AV4366055	Price	AV4366050	Price	AV4394011	Price	AV4394010	Price	AV4294008	Price	AV4294007	Price
3/4	1/8	2-1/8	406	AV4364065	Price	AV4364060	Price	AV4393999	Price	AV4393998	Price	AV4294014	Price	AV4294013	Price
3/4	5/32	2-5/32	506	AV4365065	Price	AV4365060	Price	AV4394017	Price	AV4394016	Price	AV4294020	Price	AV4294019	Price
3/4	3/16	2-3/16	606	AV4366065	Price	AV4366060	Price	AV4394035	Price	AV4394034	Price	AV4294026	Price	AV4294025	Price
3/4	1/4	2-1/4	806	AV4368065	Price	AV4368060	Price	AV4394023	Price	AV4394022	Price	AV4294032	Price	AV4294031	Price
7/8	3/16	2-3/16	607	AV4366075	Price	AV4366070	Price	AV4394041	Price	AV4394040	Price	AV4294044	Price	AV4294043	Price
7/8	5/32	2-5/32	507	AV4365075	Price	AV4365070	Price	AV4394029	Price	AV4394028	Price	AV4294038	Price	AV4294037	Price
7/8	7/32	2-7/32	707	AV4367075	Price	AV4367070	Price	AV4394047	Price	AV4394046	Price	AV4294050	Price	AV4294049	Price
7/8	1/4	2-1/4	807	AV4368075	Price	AV4368070	Price	AV4394077	Price	AV4394076	Price	AV4294056	Price	AV4294055	Price
1	3/16	2-3/16	608	AV4366085	Price	AV4366080	Price	AV4394053	Price	AV4394052	Price	AV4294062	Price	AV4294061	Price
1	7/32	2-7/32	708	AV4367085	Price	AV4367080	Price	AV4394059	Price	AV4394058	Price	AV4294068	Price	AV4294067	Price
1	1/4	2-1/4	808	AV4368085	Price	AV4368080	Price	AV4394083	Price	AV4394082	Price	AV4294074	Price	AV4294073	Price
1	5/16	2-5/16	1008	AV4360085	Price	AV4360080	Price	AV4394131	Price	AV4394130	Price	AV4294080	Price	AV4294079	Price
1	3/8	2-3/8	1208	AV4362085	Price	AV4362080	Price	AV4394065	Price	AV4394064	Price	AV4294086	Price	AV4294085	Price
1-1/8	3/16	2-3/16	609	AV4366095	Price	AV4366090	Price	AV4394071	Price	AV4394070	Price	AV4294092	Price	AV4294091	Price
1-1/8	7/32	2-7/32	709	AV4367095	Price	AV4367090	Price	AV4394089	Price	AV4394088	Price	AV4294098	Price	AV4294097	Price
1-1/8	1/4	2-1/4	809	AV4368095	Price	AV4368090	Price	AV4394095	Price	AV4394094	Price	AV4294104	Price	AV4294103	Price
1-1/8	5/16	2-5/16	1009	AV4360095	Price	AV4360090	Price	AV4394137	Price	AV4394136	Price	AV4294110	Price	AV4294109	Price
1-1/2	3/8	2-3/8	1212	AV4362125	Price	AV4362120	Price	AV4394173	Price	AV4394172	Price	AV4294175	Price	AV4294174	Price
1-1/4	3/16	2-3/16	610	AV4366105	Price	AV4366100	Price	AV4394101	Price	AV4394100	Price	AV4294116	Price	AV4294115	Price
1-1/4	7/32	2-7/32	710	AV4367105	Price	AV4367100	Price	AV4394107	Price	AV4394106	Price	AV4294122	Price	AV4294121	Price
1-1/4	1/4	2-1/4	810	AV4368105	Price	AV4368100	Price	AV4394113	Price	AV4394112	Price	AV4294128	Price	AV4294127	Price
1-1/4	5/16	2-5/16	1010	AV4360015	Price	AV4360010	Price	AV4394143	Price	AV4394142	Price	AV4294134	Price	AV4294133	Price
1-1/4	3/8	2-3/8	1210	AV4362105	Price	AV4362100	Price	AV4394161	Price	AV4394160	Price	AV4294140	Price	AV4294139	Price
1-3/8	1/4	2-1/4	811	AV4368115	Price	AV4368110	Price	AV4394119	Price	AV4394118	Price	AV4294146	Price	AV4294145	Price
1-3/8	5/16	2-5/16	1011	AV4360115	Price	AV4360110	Price	AV4394149	Price	AV4394148	Price	AV4294152	Price	AV4294151	Price
1-3/8	3/8	2-3/8	1211	AV4362115	Price	AV4362110	Price	AV4394167	Price	AV4394166	Price	AV4294158	Price	AV4294157	Price
1-1/2	1/4	2-1/4	812	AV4368125	Price	AV4368120	Price	AV4394125	Price	AV4394124	Price	AV4294164	Price	AV4294163	Price
1-1/2	5/16	2-5/16	1012	AV4360125	Price	AV4360120	Price	AV4394155	Price	AV4394154	Price	AV4294170	Price	AV4294169	Price

10 Pc. Woodruff Keyseat Cutter Sets

- Set consists of 1 each of the following sizes: 403, 204, 404, 305, 505, 406, 606, 806, 608, 808



		Keo		Price	
Tooth Type	Set Material	Order No.	Price	Order No.	Price
Straight	High Speed Steel	AV4360100	Price	DH52PT10	Price
Straight	Cobalt	-	-	DH52PT10CO	Price
Staggered	High Speed Steel	AV4360105	Price	DH52ST10	Price
Staggered	Cobalt	-	-	DH52ST10CO	Price

41 Pc. Woodruff Keyseat Cutter Sets

- Set consists of 1 each of the following sizes: from 202 to 1212
- High speed steel



	KEO		ProCut	
Tooth Type	Order No.	Price	Order No.	Price
Straight	AV4360000†	Price	DH52PT41	Price
Staggered	AV4360005†	Price	DH52ST41	Price

†Keo sets furnished in fitted box

Woodruff Keyseat Cutters

High Speed Steel, Cobalt and Carbide Tipped

- 1/2" Shanks
- Straight tooth
- Staggered tooth
- Also available in solid carbide & carbide tipped staggered tooth upon request. See index for arbor type keyseat cutters.





PROCUT WHITNEY TOOL

				High Speed Steel				M-42 Cobalt				Carbide Tipped	
				Staggered		Straight		Staggered		Straight		Straight	
Cutter Dia. (in.)	Face Width (in.)	OAL (in.)	American Standard No.	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/4	1/16	2-1/16	202	DH51202	Price	DH50202	Price	-	-	-	-	-	-
5/16	1/16	2-1/16	202-1/2	DH5120212	Price	DH5020212	Price	-	-	-	-	-	-
5/16	3/32	2-3/32	302-1/2	DH5130212	Price	DH5030212	Price	-	-	-	-	-	-
3/8	1/16	2-1/16	203	DH51203	Price	DH50203	Price	-	-	-	-	-	-
3/8	3/32	2-3/32	303	DH51303	Price	DH50303	Price	-	-	-	-	-	-
3/8	1/8	2-1/8	403	DH51403	Price	DH50403	Price	DH71403	Price	DH70403	Price	-	-
1/2	1/16	2-1/16	204	DH51204	Price	DH50204	Price	DH71204	Price	DH70204	Price	DH54204	Price
1/2	3/32	2-3/32	304	DH51304	Price	DH50304	Price	DH71304	Price	DH70304	Price	DH54304	Price
1/2	1/8	2-1/8	404	DH51404	Price	DH50404	Price	DH71404	Price	DH70404	Price	DH54404	Price
5/8	1/8	2-1/8	405	DH51405	Price	DH50405	Price	DH71405	Price	DH70405	Price	DH54405	Price
5/8	3/32	2-3/32	305	DH51305	Price	DH50305	Price	DH71305	Price	DH70305	Price	DH54305	Price
5/8	5/32	2-5/32	505	DH51505	Price	DH50505	Price	DH71505	Price	DH70505	Price	DH54505	Price
5/8	3/16	2-3/16	605	DH51605	Price	DH50605	Price	DH71605	Price	DH70605	Price	DH54605	Price
3/4	1/8	2-1/8	406	DH51406	Price	DH50406	Price	DH71406	Price	DH70406	Price	DH54406	Price
3/4	5/32	2-5/32	506	DH51506	Price	DH50506	Price	-	-	-	-	DH54506	Price
3/4	3/16	2-3/16	606	DH51606	Price	DH50606	Price	DH71606	Price	DH70606	Price	DH54606	Price
3/4	1/4	2-1/4	806	DH51806	Price	DH50806	Price	DH71806	Price	DH70806	Price	DH54806	Price
7/8	5/32	2-5/32	507	DH51507	Price	DH50507	Price	DH71507	Price	DH70507	Price	DH54507	Price
7/8	3/16	2-3/16	607	DH51607	Price	DH50607	Price	-	-	-	-	DH54607	Price
7/8	7/32	2-7/32	707	DH51707	Price	DH50707	Price	-	-	-	-	DH54707	Price
7/8	1/4	2-1/4	807	DH51807	Price	DH50807	Price	-	-	-	-	DH54807	Price
1	3/16	2-3/16	608	DH51608	Price	DH50608	Price	DH71608	Price	DH70608	Price	DH54608	Price
1	7/32	2-7/32	708	DH51708	Price	DH50708	Price	-	-	-	-	DH54708	Price
1	1/4	2-1/4	808	DH51808	Price	DH50808	Price	DH71808	Price	DH70808	Price	DH54808	Price
1	5/16	2-5/16	1008	DH511008	Price	DH501008	Price	DH711008	Price	DH701008	Price	DH541008	Price
1	3/8	2-3/8	1208	DH511208	Price	DH501208	Price	DH711208	Price	DH701208	Price	DH541208	Price
1-1/8	3/16	2-3/16	609	DH51609	Price	DH50609	Price	-	-	-	-	DH54609	Price
1-1/8	7/32	2-7/32	709	DH51709	Price	DH50709	Price	-	-	-	-	DH54709	Price
1-1/8	1/4	2-1/4	809	DH51809	Price	DH50809	Price	-	-	-	-	DH54809	Price
1-1/8	5/16	2-5/16	1009	DH511009	Price	DH501009	Price	-	-	-	-	DH541009	Price
1-1/4	3/16	2-3/16	610	DH51610	Price	DH50610	Price	DH71610	Price	DH70610	Price	DH54610	Price
1-1/4	7/32	2-7/32	710	DH51710	Price	DH50710	Price	-	-	-	-	DH54710	Price
1-1/4	1/4	2-1/4	810	DH51810	Price	DH50810	Price	DH71810	Price	DH70810	Price	DH54810	Price
1-1/4	5/16	2-5/16	1010	DH511010	Price	DH501010	Price	-	-	-	-	DH541010	Price
1-1/4	3/8	2-3/8	1210	DH511210	Price	DH501210	Price	-	-	-	-	DH541210	Price
1-3/8	1/4	2-1/4	811	DH51811	Price	DH50811	Price	-	-	-	-	DH54811	Price
1-3/8	5/16	2-5/16	1011	DH511011	Price	DH501011	Price	-	-	-	-	DH541011	Price
1-3/8	3/8	2-3/8	1211	DH511211	Price	DH501211	Price	-	-	-	-	DH541211	Price
1-1/2	1/4	2-1/4	812	DH51812	Price	DH50812	Price	DH71812	Price	DH70812	Price	DH54812	Price
1-1/2	5/16	2-5/16	1012	DH511012	Price	DH501012	Price	DH711012	Price	DH701012	Price	DH541012	Price
1-1/2	3/8	2-3/8	1212	DH511212	Price	DH501212	Price	DH711212	Price	DH701212	Price	DH541212	Price

Small Solid Carbide Keyseat Cutters

- Solid carbide
- Smaller than standard sizes
- Large selection of sizes
- CNC precision
- C2 micrograin standard



KEO WHITNEY TOOL

			Keo		Whitney Tool	
Cutter Dia. (in.)	Face Width	Shank Dia. (in.)	Order No.	Price	Order No.	Price
1/8	1/64	1/4	AV4261070	Price	DS9630300	Price
1/8	1/32	1/4	AV4261071	Price	DS9630301	Price
1/8	1mm	1/4	AV4261072	Price	DS9630302	Price
1/8	3/64	1/4	AV4261073	Price	DS9630303	Price
1/8	1/16	1/4	AV4261074	Price	DS9630304	Price
3/16	1/64	1/4	AV4261075	Price	DS9630305	Price
3/16	1/32	1/4	AV4261076	Price	DS9630306	Price
3/16	1mm	1/4	AV4261077	Price	DS9630307	Price
3/16	3/64	1/4	AV4261078	Price	DS9630308	Price
3/16	1/16	1/4	AV4261079	Price	DS9630309	Price
1/4	1/64	1/4	AV4261080	Price	DS9630310	Price
1/4	1/32	1/4	AV4261081	Price	DS9630311	Price

KEO WHITNEY TOOL

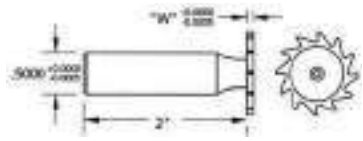
			Keo		Whitney Tool	
Cutter Dia. (in.)	Face Width	Shank Dia. (in.)	Order No.	Price	Order No.	Price
1/4	1mm	1/4	AV4261082	Price	DS9630312	Price
1/4	3/64	1/4	AV4261083	Price	DS9630313	Price
1/4	1/16	1/4	AV4261084	Price	DS9630314	Price
5/16	1/64	3/8	AV4261085	Price	DS9630315	Price
5/16	1/32	3/8	AV4261086	Price	DS9630316	Price
5/16	1mm	3/8	AV4261087	Price	DS9630317	Price
5/16	3/64	3/8	AV4261088	Price	DS9630318	Price
5/16	1/16	3/8	AV4261089	Price	DS9630319	Price
5/16	2mm	3/8	AV4261090	Price	DS9630320	Price
5/16	3/32	3/8	AV4261091	Price	DS9630321	Price
3/8	1/64	3/8	AV4261092	Price	DS9630322	Price
3/8	1/32	3/8	AV4261093	Price	DS9630323	Price
3/8	1mm	3/8	AV4261094	Price	DS9630324	Price
3/8	3/64	3/8	AV4261095	Price	DS9630325	Price
3/8	1/16	3/8	AV4261096	Price	DS9630326	Price
3/8	2mm	3/8	AV4261097	Price	DS9630327	Price
3/8	3/32	3/8	AV4261098	Price	DS9630328	Price
3/8	1/8	3/8	AV4261099	Price	DS9630329	Price

Woodruff Style Narrow Width Slotting Cutters

High Speed Steel & Cobalt

- Straight shank
- Right hand cut
- 1/2” Diameter straight shank
- 2” Underhead length





		High Speed Steel				M-42 Cobalt	
		Keo		Whitney		Whitney Tool	
Cutter Dia. (in.)	Face Width (in.)	Order No.	Price	Order No.	Price	Order No.	Price
1/4	1/64	**AV4368981**	Price	**DH6010165**	Price	-	-
1/4	1/32	**AV4368982**	Price	**DH6010166**	Price	-	-
1/4	3/64	**AV4368983**	Price	**DH6010167**	Price	-	-
5/16	1/64	**AV4368984**	Price	**DH6010168**	Price	-	-
5/16	1/32	**AV4368985**	Price	**DH6010169**	Price	-	-
5/16	3/64	**AV4368986**	Price	**DH6010170**	Price	-	-
3/8	1/64	**AV4368987**	Price	**DH6010171**	Price	-	-
3/8	1/32	**AV4368988**	Price	**DH6010172**	Price	-	-
3/8	3/64	**AV4368989**	Price	**DH6010173**	Price	-	-
1/2	1/64	**AV4368990**	Price	**DH6010174**	Price	**DH6120174**	Price
1/2	.020	**AV4368991**	Price	**DH6010175**	Price	**DH6120175**	Price
1/2	1/32	**AV4369000**	Price	**DH6010176**	Price	**DH6120176**	Price
1/2	3/64	**AV4369001**	Price	**DH6010177**	Price	**DH6120177**	Price
5/8	1/64	-	-	**DH6010178**	Price	**DH6120178**	Price
5/8	.020	**AV4369009**	Price	**DH6010179**	Price	**DH6120179**	Price
5/8	1/32	**AV4369010**	Price	**DH6010180**	Price	**DH6120180**	Price
5/8	3/64	**AV4369011**	Price	**DH6010181**	Price	**DH6120181**	Price
5/8	1/16	**AV4369020**	Price	**DH6010182**	Price	**DH6120182**	Price
5/8	5/64	**AV4369021**	Price	**DH6010183**	Price	**DH6120183**	Price
3/4	1/32	**AV4369030**	Price	**DH6010184**	Price	**DH6120184**	Price
3/4	3/64	**AV4369031**	Price	**DH6010185**	Price	**DH6120185**	Price
3/4	1/16	**AV4369040**	Price	**DH6010186**	Price	**DH6120186**	Price
3/4	5/64	**AV4369041**	Price	**DH6010187**	Price	**DH6120187**	Price
3/4	3/32	**AV4369050**	Price	**DH6010188**	Price	**DH6120188**	Price
3/4	7/64	**AV4369051**	Price	**DH6010189**	Price	**DH6120189**	Price
7/8	3/64	**AV4369061**	Price	**DH6010190**	Price	-	-
7/8	1/16	**AV4369070**	Price	**DH6010191**	Price	-	-
7/8	5/64	**AV4369071**	Price	**DH6010192**	Price	-	-
7/8	3/32	**AV4369080**	Price	**DH6010193**	Price	-	-
7/8	7/64	**AV4369081**	Price	**DH6010194**	Price	-	-
7/8	1/8	**AV4369090**	Price	**DH6010195**	Price	-	-
7/8	9/64	**AV4369091**	Price	**DH6010196**	Price	-	-
1	3/64	**AV4369099**	Price	**DH6010197**	Price	**DH6120197**	Price
1	1/16	**AV4369100**	Price	**DH6010198**	Price	**DH6120198**	Price
1	5/64	**AV4369101**	Price	**DH6010199**	Price	**DH6120199**	Price
1	3/32	**AV4369110**	Price	**DH6010200**	Price	**DH6120200**	Price
1	7/64	**AV4369111**	Price	**DH6010201**	Price	**DH6120201**	Price
1	1/8	**AV4369120**	Price	**DH6010202**	Price	**DH6120202**	Price
1	9/64	**AV4369121**	Price	**DH6010203**	Price	**DH6120203**	Price
1	5/32	**AV4369130**	Price	**DH6010204**	Price	**DH6120204**	Price
1	11/64	**AV4369131**	Price	**DH6010205**	Price	-	-
1-1/8	3/64	**AV4369139**	Price	**DH6010206**	Price	-	-
1-1/8	1/16	**AV4369140**	Price	**DH6010207**	Price	-	-
1-1/8	5/64	**AV4369141**	Price	**DH6010208**	Price	-	-
1-1/8	3/32	**AV4369150**	Price	**DH6010209**	Price	-	-
1-1/8	7/64	**AV4369151**	Price	**DH6010210**	Price	-	-
1-1/8	1/8	**AV4369160**	Price	**DH6010211**	Price	**DH6120211**	Price
1-1/8	9/64	**AV4369161**	Price	**DH6010212**	Price	-	-
1-1/8	5/32	**AV4369170**	Price	**DH6010213**	Price	-	-
1-1/8	11/64	**AV4369171**	Price	**DH6010214**	Price	-	-
1-1/4	3/64	**AV4369179**	Price	**DH6010215**	Price	-	-
1-1/4	1/16	**AV4369180**	Price	**DH6010216**	Price	**DH6120216**	Price
1-1/4	5/64	**AV4369181**	Price	**DH6010217**	Price	-	-
1-1/4	3/32	**AV4369190**	Price	**DH6010218**	Price	**DH6120218**	Price
1-1/4	7/64	**AV4369191**	Price	**DH6010219**	Price	-	-
1-1/4	1/8	**AV4369200**	Price	**DH6010220**	Price	**DH6120220**	Price
1-1/4	9/64	**AV4369201**	Price	**DH6010221**	Price	-	-
1-1/4	5/32	**AV4369210**	Price	**DH6010222**	Price	-	-
1-1/4	11/64	**AV4369211**	Price	**DH6010223**	Price	-	-
1-1/2	1/16	**AV4369280**	Price	**DH6010234**	Price	**DH6120234**	Price
1-1/2	5/64	**AV4369281**	Price	**DH6010235**	Price	-	-
1-1/2	3/32	**AV4369290**	Price	**DH6010236**	Price	-	-
1-1/2	7/64	**AV4369291**	Price	**DH6010237**	Price	-	-
1-1/2	1/8	**AV4369300**	Price	**DH6010238**	Price	**DH6120238**	Price
1-1/2	9/64	**AV4369301**	Price	**DH6010239**	Price	-	-
1-1/2	5/32	**AV4369310**	Price	**DH6010240**	Price	**DH6120240**	Price
1-1/2	11/64	**AV4369311**	Price	**DH6010241**	Price	-	-
1-1/2	3/16	**AV4369320**	Price	**DH6010242**	Price	**DH6120242**	Price
1-1/2	7/32	**AV4369330**	Price	**DH6010243**	Price	-	-

Metric Keyseat Cutters



High Speed Steel

- Extremely versatile profile milling cutters
- DIN 850, Form A, B

				Staggered		Straight	
Cutter Dia. (mm)	Face Width (mm)	Shank Dia. (mm)	OAL (mm)	Order No.	Price	Order No.	Price
4.5	1	6	50	**AV4268201**	Price	**AV4268200**	Price
7.5	1.5	6	50	**AV4268211**	Price	**AV4268210**	Price
7.5	2	6	50	**AV4268221**	Price	**AV4268220**	Price
10.5	2	6	50	**AV4268231**	Price	**AV4268230**	Price
10.5	2.5	6	50	**AV4268241**	Price	**AV4268240**	Price
10.5	3	6	50	**AV4268251**	Price	**AV4268250**	Price
13.5	3	10	56	**AV4268261**	Price	**AV4268260**	Price
13.5	4	10	56	**AV4268271**	Price	**AV4268270**	Price
16.5	3	10	56	**AV4268281**	Price	**AV4268280**	Price
16.5	4	10	56	**AV4268291**	Price	**AV4268290**	Price
16.5	5	10	56	**AV4268301**	Price	**AV4268300**	Price
19.5	4	10	63	**AV4268311**	Price	**AV4268310**	Price
19.5	5	10	63	**AV4268321**	Price	**AV4268320**	Price
19.5	6	10	63	**AV4268331**	Price	**AV4268330**	Price
22.5	5	10	63	**AV4268341**	Price	**AV4268340**	Price
22.5	6	10	63	**AV4268351**	Price	**AV4268350**	Price
22.5	8	10	63	**AV4268361**	Price	**AV4268360**	Price
25.5	6	10	63	**AV4268371**	Price	**AV4268370**	Price
28.5	6	10	71	**AV4268381**	Price	**AV4268380**	Price
28.5	8	10	71	**AV4268391**	Price	**AV4268390**	Price
28.5	10	12	71	**AV4268401**	Price	**AV4268400**	Price
32.5	7	12	71	**AV4268411**	Price	**AV4268410**	Price
32.5	8	12	71	**AV4268421**	Price	**AV4268420**	Price
32.5	10	12	71	**AV4268431**	Price	**AV4268430**	Price
45.5	10	12	71	**AV4268441**	Price	**AV4268440**	Price

Long Shank T-Slot Milling Cutters



- High speed steel or M42 cobalt
- Right hand cut
- Straight shank

				Cobalt		High Speed Steel	
Head Width (in.)	Head Dia. OD (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price
1/8	1	5/8	4-15/16	**DS9620294**	Price	**DS9610294**	Price
1/8	1-1/2	1	5-5/16	**DS9620308**	Price	**DS9610308**	Price
1/8	1-1/4	3/4	5-1/8	**DS9620301**	Price	**DS9610301**	Price
3/16	1	5/8	4-15/16	**DS9620295**	Price	**DS9610295**	Price
3/16	1-1/2	1	5-5/16	**DS9620309**	Price	**DS9610309**	Price
3/16	1-1/4	3/4	5-1/8	**DS9620302**	Price	**DS9610302**	Price
3/16	2	1	5-11/16	**DS9620315**	Price	**DS9610315**	Price
1/4	1	5/8	4-15/16	**DS9620296**	Price	**DS9610296**	Price
1/4	1-1/2	1	5-5/16	**DS9620310**	Price	**DS9610310**	Price
1/4	1-1/4	3/4	5-1/8	**DS9620303**	Price	**DS9610303**	Price
1/4	2	1	5-11/16	**DS9620316**	Price	**DS9610316**	Price
5/16	1	5/8	4-15/16	**DS9620297**	Price	**DS9610297**	Price
5/16	1-1/2	1	5-5/16	**DS9620311**	Price	**DS9610311**	Price
5/16	1-1/4	3/4	5-1/8	**DS9620304**	Price	**DS9610304**	Price
5/16	2	1	5-11/16	**DS9620317**	Price	**DS9610317**	Price
3/8	1	5/8	4-15/16	**DS9620298**	Price	**DS9610298**	Price
3/8	1-1/2	1	5-5/16	**DS9620312**	Price	**DS9610312**	Price
3/8	1-1/4	3/4	5-1/8	**DS9620305**	Price	**DS9610305**	Price
3/8	2	1	5-11/16	**DS9620318**	Price	**DS9610318**	Price
1/2	1	5/8	4-15/16	**DS9620299**	Price	**DS9610299**	Price
1/2	1-1/2	1	5-5/16	**DS9620313**	Price	**DS9610313**	Price
1/2	1-1/4	3/4	5-1/8	**DS9620306**	Price	**DS9610306**	Price
1/2	2	1	5-11/16	**DS9620319**	Price	**DS9610319**	Price
5/8	1	5/8	4-15/16	**DS9620300**	Price	**DS9610300**	Price
5/8	1-1/2	1	5-5/16	**DS9620314**	Price	**DS9610314**	Price
5/8	1-1/4	3/4	5-1/8	**DS9620307**	Price	**DS9610307**	Price
5/8	2	1	5-11/16	**DS9620320**	Price	**DS9610320**	Price
3/4	2	1	5-11/16	**DS9620321**	Price	**DS9610321**	Price

T-Slot Cutters - Shank Type



High Speed Steel and Cobalt

- Keo Milling List TS109

					Price						Cobalt	
					Keo Milling		ProCut		Whitney Tool		Whitney Tool	
Bolt Size (in.)	Cutter Dia. (in.)	Face Width (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/4	9/16	15/64	1/2	2-19/32	**KE1110800**	Price	**DL501**	Price	**DS9010276**	Price	**DS9215276**	Price
5/16	21/32	17/64	1/2	2-11/16	**KE1110810**	Price	**DL502**	Price	**DS9010277**	Price	**DS9215277**	Price
3/8	25/32	21/64	3/4	3-1/4	**KE1110820**	Price	**DL503**	Price	**DS9010278**	Price	**DS9215278**	Price
1/2	31/32	25/64	3/4	3-7/16	**KE1110830**	Price	**DL504**	Price	**DS9010279**	Price	**DS9215279**	Price
5/8	1-1/4	31/64	1	3-15/16	**KE1110920**	Price	**DL505**	Price	**DS9010280**	Price	**DS9215280**	Price
3/4	1-15/32	5/8	1	4-7/16	**KE1110930**	Price	**DL506**	Price	**DS9010281**	Price	**DS9215281**	Price
1	1-27/32	53/64	1-1/4	4-13/16	**KE1111020**	Price	**DL507**	Price	**DS9010282**	Price	**DS9215282**	Price
1-1/4	2-7/32	1-3/32	1-1/4	5-3/8	**KE1111110**	Price	**DL508**	Price	**DS9010283**	Price	**DS9215283**	Price
1-1/2	2-21/32	1-11/32	1-1/4	5-29/32	**KE1111120**	Price	**DL509**	Price	**DS9010284**	Price	**DS9215284**	Price

T-Slot Milling Cutters



Carbide-Tipped

- For cast iron or steel

						Type 2720 Cast Iron		Type 2721 Steel	
Bolt Size (in.)	Cutter Dia. (in.)	Face Width (in.)	Shank Dia. (in.)	OAL (in.)	Neck Dia. (in.)	Order No.	Price	Order No.	Price
1/4	9/16	15/64	1/2	2-19/32	17/64	**BJ56272008**	Price	**BJ56272108**	Price
5/16	21/32	17/64	1/2	2-11/16	21/64	**BJ56272010**	Price	**BJ56272110**	Price
3/8	25/32	21/64	3/4	3-1/4	13/32	**BJ56272012**	Price	**BJ56272112**	Price
1/2	31/32	25/64	3/4	3-7/16	17/32	**BJ56272016**	Price	**BJ56272116**	Price
5/8	1-1/4	31/64	1	3-15/16	21/32	**BJ56272020**	Price	**BJ56272120**	Price
3/4	1-15/32	5/8	1	4-7/16	25/32	**BJ56272024**	Price	**BJ56272124**	Price
1	1-27/32	53/64	1-1/4	4-13/16	1-1/32	**BJ56272032**	Price	**BJ56272132**	Price
1-1/4	2-7/32	1-3/32	1-1/4	5-3/8	1-7/32	**BJ56272040**	Price	**BJ56272140**	Price
1-1/2	2-21/32	1-11/32	1-1/4	5-29/32	1-17/32	**BJ56272048**	Price	**BJ56272148**	Price

RAPIDKUT® M-42 8% Cobalt Roughing T-Slot Cutters



Bolt Size (in.)	Cutter Dia. (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price
1/2	31/32	3/4	3-7/16	**DL51TTS16**	Price
5/8	1-1/4	1	3-15/16	**DL51TTS20**	Price
3/4	1-15/32	1	4-7/16	**DL51TTS24**	Price
1	1-27/32	1-1/4	4-13/16	**DL51TTS32**	Price
1-1/4	2-7/32	1-1/4	5-3/8	**DL51TTS40**	Price
1-1/2	2-21/32	1-1/4	5-29/32	**DL51TTS48**	Price

PROCUT 7 Pc. HSS T-Slot Milling Cutter Set



Set Range (in.)	Order No.	Price
1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 1	**DL50TC**	Price

T-Slot Roughing Cutters

Cobalt • Rougher/Finisher

- Flute diameter : +.000 -.005”
- Length of cut: +.000 -.005”
- Overall length: +.062 -.000”
- Helix angle 30°
- Keo Milling List #TS111



				Uncoated		TiN		TiCN		TiAlN	
Bolt Size (in.)	Cutter Dia. (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/2	31/32	3/4	3-7/16	**KE1111135**	Price	**KE1111130**	Price	**KE1187808**	Price	**KE1116825**	Price
5/8	1-1/4	1	3-15/16	**KE1111145**	Price	**KE1111140**	Price	**KE1187809**	Price	**KE1116826**	Price
3/4	1-15/32	1	4-7/16	**KE1111155**	Price	**KE1111150**	Price	**KE1187810**	Price	**KE1116827**	Price
1	1-27/32	1-1/4	4-13/16	**KE1111165**	Price	**KE1111160**	Price	**KE1187811**	Price	**KE1116828**	Price
1-1/4	2-7/32	1-1/4	5-3/8	**KE1111175**	Price	**KE1111170**	Price	**KE1187812**	Price	**KE1116829**	Price
1-1/2	2-21/32	1-1/4	5-29/32	**KE1111185**	Price	**KE1111180**	Price	**KE1187813**	Price	**KE1116830**	Price

T-Slot Cutters

Cobalt • Finisher

- Cutter diameter : +.000 -.010”
- Overall length: +/- .060
- Helix angle 10°
- Keo Milling List #TS112



Bolt Size (in.)	Cutter Dia. (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price
1/4	9/16	1/2	2-19/32	**KE1111200**	Price
5/16	21/32	1/2	2-11/16	**KE1111210**	Price
3/8	25/32	3/4	3-1/4	**KE1111220**	Price
1/2	31/32	3/4	3-7/16	**KE1111230**	Price
5/8	1-1/4	1	3-15/16	**KE1111240**	Price
3/4	1-15/32	1	4-7/16	**KE1111250**	Price
1	1-27/32	1-1/4	4-13/16	**KE1111260**	Price
1-1/4	2-7/32	1-1/4	5-3/8	**KE1111270**	Price
1-1/2	2-21/32	1-1/4	5-29/32	**KE1111280**	Price

Double Angle Shank Style Cutters

High Speed Steel or Carbide Tipped

- Cutter diameter: +.015” -.000”
- Shank diameter: -.0001” to -.0005”
- Overall length: +/- .060”
- Keo Milling List DA129



- Keo Milling

					High Speed Steel	
Cutter Dia.	Cutter Thickness	Shank Dia.	OAL	Angle	Order No.	Price
1	5/16	1/2	2-27/32	60°	**KE1172801**	Price
1	3/8	1/2	2-29/32	90°	**KE1172821**	Price
1-3/8	7/16	5/8	3-7/32	60°	**KE1172802**	Price
1-3/8	1/2	5/8	3-9/32	90°	**KE1172822**	Price
1-1/2	1/2	5/8	3-3/8	60°	**KE1172803**	Price
1-1/2	9/16	5/8	3-7/16	90°	**KE1172823**	Price
1-7/8	5/8	3/4	3-25/32	60°	**KE1172804**	Price
1-7/8	5/8	3/4	3-25/32	90°	**KE1172824**	Price
2-1/4	1/2	3/4	3-1/8	60°	**KE1112492**	Price
2-1/4	3/4	7/8	4-5/32	60°	**KE1172805**	Price
2-1/4	1/2	3/4	3-1/8	90°	**KE1112490**	Price
2-3/4	3/16	3/8	2-3/8	60°	**KE1172800**	Price
2-3/4	1/4	3/8	2-7/16	90°	**KE1172820**	Price
2-1/4	3/4	7/8	4-5/32	90°	**KE1172825**	Price

- ProCut

					High Speed Steel	
Cutter Dia.	Cutter Thickness	Shank Dia.	OAL	Angle	Order No.	Price
3/4	3/16	3/8	2-3/8	60°	**DS75682010**	Price
3/4	1/4	3/8	2-7/16	90°	**DS75682110**	Price
1	5/16	1/2	2-27/32	60°	**DS75682020**	Price
1	3/8	1/2	2-29/32	90°	**DS75682120**	Price
1-3/8	7/16	5/8	3-7/32	60°	**DS75682040**	Price
1-3/8	1/2	5/8	3-9/32	90°	**DS75682140**	Price
1-1/2	1/2	5/8	3-3/8	60°	**DS75682060**	Price
1-1/2	9/16	5/8	3-7/16	90°	**DS75682160**	Price
1-7/8	5/8	3/4	3-25/32	60°	**DS75682080**	Price
1-7/8	5/8	3/4	3-25/32	90°	**DS75682180**	Price
2-1/4	1/2	3/4	3-1/8	60°	**DS75682100**	Price
2-1/4	3/4	7/8	4-5/32	60°	**DS75682090**	Price
2-1/4	3/4	7/8	4-5/32	90°	**DS75682190**	Price
2-1/4	1/2	3/4	3-1/8	90°	**DS75682200**	Price

- Whitney Tool

					High Speed Steel		Carbide Tipped	
Cutter Dia.	Cutter Thickness	Shank Dia.	OAL	Angle	Order No.	Price	Order No.	Price
3/4	3/16	3/8	2-3/8	60°	**DS9110330**	Price	**DS9530104**	Price
3/4	1/4	3/8	2-7/16	90°	**DS9110336**	Price	**DS9530110**	Price
1	5/16	1/2	2-27/32	60°	**DS9110331**	Price	**DS9530105**	Price
1	3/8	1/2	2-29/32	90°	**DS9110337**	Price	**DS9530111**	Price
1-3/8	7/16	5/8	3-7/32	60°	**DS9110332**	Price	**DS9530106**	Price
1-3/8	1/2	5/8	3-9/32	90°	**DS9110338X**	Price	**DS9530112**	Price
1-1/2	1/2	5/8	3-3/8	60°	**DS9110333**	Price	**DS9530107**	Price
1-1/2	9/16	5/8	3-7/16	90°	**DS9110339X**	Price	**DS9530113**	Price
1-7/8	5/8	3/4	3-25/32	60°	**DS9110334**	Price	**DS9530108**	Price
1-7/8	5/8	3/4	3-25/32	90°	**DS9110340X**	Price	**DS9530114**	Price
2-1/4	3/4	7/8	4-5/32	60°	**DS9110335**	Price	**DS9530109**	Price
2-1/4	3/4	7/8	4-5/32	90°	**DS9110341X**	Price	**DS9530115**	Price

Single Angle Shank Style Cutters

High Speed Steel or Carbide Tipped

- Cutter diameter: +.010” -.000”
- Shank diameter: -.0001” to -.0005”
- Overall length: +/- .060”
- Keo Milling List CH126



Angle - 45°												
					High Speed Steel						Carbide Tipped	
					Keo Milling		ProCut		Whitney Tool		Whitney Tool	
Cutter Dia.	Face Width	Shank Dia.	OAL	Angle	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/2	1/8	3/8	2-1/8	45°	**KE1112640**	Price	**DS80680001**	Price	**DS9010322**	Price	**DS9530096**	Price
3/4	3/16	3/8	2-1/8	45°	**KE1112642**	Price	**DS80680002**	Price	**DS9010323**	Price	**DS9530097**	Price
1	5/16	1/2	2-1/2	45°	**KE1112644**	Price	**DS80680003**	Price	**DS9010324**	Price	**DS9530098**	Price
1-1/2	1/2	3/4	2-3/4	45°	**KE1112646**	Price	**DS80680004**	Price	**DS9010325**	Price	**DS9530099**	Price

Angle - 60°												
					High Speed Steel						Carbide Tipped	
					Keo Milling		ProCut		Whitney Tool		Whitney Tool	
Cutter Dia.	Face Width	Shank Dia.	OAL	Angle	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/2	7/32	3/8	2-1/8	60°	**KE1112650**	Price	**DS80680005**	Price	**DS9010326**	Price	**DS9530100**	Price
3/4	5/16	3/8	2-1/8	60°	**KE1112652**	Price	**DS80680006**	Price	**DS9010327**	Price	**DS9530101**	Price
1	7/16	1/2	2-1/2	60°	**KE1112654**	Price	**DS80680007**	Price	**DS9010328**	Price	**DS9530102**	Price
1-1/2	5/8	3/4	2-3/4	60°	**KE1112656**	Price	**DS80680008**	Price	**DS9010329**	Price	**DS9530103**	Price

Convex Radius Cutters - Shank Type

High Speed Steel

- Cutter diameter: +.030” -.000”
- Shank diameter: -.0001” to -.0005”
- Overall length: +/- .060”
- Keo Milling List CVS130



			Keo Milling			ProCut			Price		
Radius	Shank Dia.	OAL	Cutter Dia.	Order No.	Price	Cutter Dia.	Order No.	Price	Cutter Dia.	Order No.	Price
1/32	1/2	3	3/4	**KE1118927**	Price	3/4	**DS70690005**	Price	3/4	**DS9010344**	Price
1/16	1/2	3	3/4	**KE1118928**	Price	3/4	**DS70690010**	Price	3/4	**DS9010345**	Price
3/32	1/2	3	7/8	**KE1118929**	Price	7/8	**DS70690015**	Price	7/8	**DS9010346**	Price
1/8	3/4	3-1/2	1-1/4	**KE1118930**	Price	1-1/4	**DS70690020**	Price	1-1/4	**DS9010347**	Price
5/32	3/4	3-1/2	1-5/16	**KE1118931**	Price	1-5/16	**DS70690025**	Price	1-5/16	**DS9010348**	Price
3/16	3/4	3-1/2	1-3/8	**KE1118932**	Price	1-3/8	**DS70690030**	Price	1-3/8	**DS9010349**	Price
1/4	3/4	4	1-1/2	**KE1118933**	Price	1-1/2	**DS70690035**	Price	1-1/2	**DS9010350**	Price
5/16	3/4	4	1-5/8	**KE1118934**	Price	1-5/8	**DS70690040**	Price	1-3/4	**DS9010351**	Price
3/8	3/4	4	1-3/4	**KE1118935**	Price	1-3/4	**DS70690045**	Price	1-7/8	**DS9010352**	Price

Concave Radius Cutters - Shank Type

High Speed Steel

- Cutter diameter: +.015” -.000”
- Shank diameter: -.0001” to -.0005”
- Overall length: +/- .060”
- Keo Milling List CCS150



			Keo Milling			ProCut			Price		
Radius	Shank Dia.	OAL	Cutter Dia.	Order No.	Price	Cutter Dia.	Order No.	Price	Cutter Dia.	Order No.	Price
1/32	1/2	3	3/4	**KE1118900**	Price	3/4	**DS70693005**	Price	3/4	**DS9010360**	Price
1/16	1/2	3	3/4	**KE1118901**	Price	3/4	**DS70693010**	Price	3/4	**DS9010361**	Price
3/32	1/2	3	3/4	**KE1118902**	Price	3/4	**DS70693015**	Price	7/8	**DS9010362**	Price
1/8	3/4	3-1/2	1	**KE1118903**	Price	1	**DS70693020**	Price	1-1/4	**DS9010363**	Price
5/32	3/4	3-1/2	1	**KE1118904**	Price	1	**DS70693025**	Price	1-5/16	**DS9010364**	Price
3/16	3/4	3-1/2	1	**KE1118905**	Price	1	**DS70693030**	Price	1-3/8	**DS9010365**	Price
1/4	3/4	4	1-1/4	**KE1118906**	Price	1-1/4	**DS70693035**	Price	1-1/2	**DS9010366**	Price
5/16	3/4	4	1-1/4	**KE1118907**	Price	1-1/4	**DS70693040**	Price	1-3/4	**DS9010367**	Price
3/8	3/4	4	-	**-**	-	1-1/2	**DS70693045**	Price	1-7/8	**DS9010368**	Price
3/8	3/4	4-3/16	1-1/2	**KE1118908**	Price	-	**-**	-	-	**-**	-

Dovetail Cutters

High Speed Steel or Cobalt

- Available with 45° or 60° angles
- Right hand



					High Speed Steel		Cobalt	
Dia. (in.)	Angle	Face Width (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price
3/8	45°	1/8	3/8	2-1/8	**AV4275034**	Price	**AV4276034**	Price
3/8	60°	3/16	3/8	2-1/8	**AV4275036**	Price	**AV4276036**	Price
1/2	45°	1/8	3/8	2-1/8	**AV4275044**	Price	**AV4276044**	Price
1/2	60°	7/32	3/8	2-1/8	**AV4275046**	Price	**AV4276046**	Price
3/4	45°	3/16	3/8	2-1/8	**AV4275064**	Price	**AV4276064**	Price
3/4	60°	5/16	3/8	2-1/8	**AV4275066**	Price	**AV4276066**	Price
1	45°	1/4	1/2	2-1/2	**AV4275084**	Price	**AV4276084**	Price
1	60°	7/16	1/2	2-1/2	**AV4275086**	Price	**AV4276086**	Price
1-3/8	45°	3/8	5/8	2-7/8	**AV4275114**	Price	**AV4276114**	Price
1-3/8	60°	9/16	5/8	2-7/8	**AV4275116**	Price	**AV4276116**	Price
1-7/8	45°	1/2	7/8	3-1/4	**AV4275154**	Price	**AV4276154**	Price
1-7/8	60°	13/16	7/8	3-1/4	**AV4275156**	Price	**AV4276156**	Price
2-1/4	45°	11/16	1	3-3/4	**AV4275184**	Price	**AV4276184**	Price
2-1/4	60°	1-1/16	1	3-3/4	**AV4275186**	Price	**AV4276186**	Price
2-1/2	45°	3/4	1	3-3/4	**AV4275204**	Price	**AV4276204**	Price
2-1/2	60°	1-1/8	1	3-3/4	**AV4275206**	Price	**AV4276206**	Price

Carbide Tipped Dovetail Cutters

- These cutters have a .020" radius



Dia. (in.)	Angle	Face Width (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price
1/2	45°	5/32	3/8	2-1/8	**AV4274044**	Price
1/2	60°	7/32	3/8	2-1/8	**AV4274046**	Price
3/4	45°	1/4	3/8	2-1/4	**AV4274064**	Price
3/4	60°	1/4	3/8	2-1/4	**AV4274066**	Price
1	45°	5/16	1/2	2-1/2	**AV4274084**	Price
1	60°	3/8	1/2	2-1/2	**AV4274086**	Price
1-1/4	45°	5/16	5/8	2-3/4	**AV4274114**	Price
1-1/4	60°	1/2	5/8	2-3/4	**AV4274116**	Price
1-1/2	45°	1/2	3/4	3-1/4	**AV4274154**	Price
1-1/2	60°	5/8	3/4	3-1/4	**AV4274156**	Price
2	45°	5/8	1	4-1/4	**AV4274184**	Price
2	60°	3/4	1	4-1/4	**AV4274186**	Price
2-1/2	45°	3/4	1-1/4	4-3/8	**AV4274204**	Price
2-1/2	60°	7/8	1-1/4	4-3/8	**AV4274206**	Price
3	45°	1	1-1/4	4-1/2	**AV4274244**	Price
3	60°	1-1/8	1-1/4	4-1/2	**AV4274246**	Price

Dovetail Angular Cutters

High Speed Steel and Cobalt



PROCUT WHITNEY TOOL PROCUT WHITNEY TOOL

Degree of Angle - 45°												
				High Speed Steel				Cobalt				
				ProCut		Whitney Tool		ProCut		Price		
Dia. (in.)	Face Width (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	.040	1/4	2	-	-	**DS9010597**	Price	-	-	**DS9220597**	Price
3/16	3/64	1/4	2	-	-	**DS9010599**	Price	-	-	**DS9220599**	Price
1/4	1/16	1/4	2	-	-	**DS9010600**	Price	-	-	**DS9220600**	Price
3/8	1/8	3/8	2-1/8	**DJ50AC412**	Price	**DS9010260**	Price	**DJ55AC412CO**	Price	**DS9220260**	Price
1/2	5/32	3/8	2-1/8	**DJ50AC416**	Price	**DS9010261**	Price	**DJ55AC416CO**	Price	**DS9220261**	Price
3/4	1/4	3/8	2-1/8	**DJ50AC424**	Price	**DS9010262**	Price	**DJ55AC424CO**	Price	**DS9220262**	Price
1-3/8	7/16	5/8	2-7/8	**DJ50AC444**	Price	**DS9010264**	Price	**DJ55AC444CO**	Price	**DS9220264**	Price
1-7/8	9/16	7/8	3-1/4	**DJ50AC460**	Price	**DS9010265**	Price	**DJ55AC460CO**	Price	**DS9220265**	Price
2-1/4	5/8	1	3-3/4	**DJ50AC472**	Price	**DS9010266**	Price	**DJ55AC472CO**	Price	**DS9220266**	Price

Degree of Angle - 60°											
				High Speed Steel				Cobalt			
				ProCut		Whitney Tool		ProCut		Whitney Tool	
Dia. (in.)	Face Width (in.)	Shank Dia. (in.)	OAL (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
1/8	1/16	1/4	2	-	-	**DS9010612**	Price	-	-	**DS9220614**	Price
3/16	3/32	1/4	2	-	-	**DS9010614**	Price	-	-	**DS9220615**	Price
1/4	1/8	1/4	2	-	-	**DS9010615**	Price	-	-	**DS9220616**	Price
3/8	3/16	3/8	2-1/8	**DJ50AC612**	Price	**DS9010268**	Price	**DJ55AC612CO**	Price	**DS9220268**	Price
1/2	1/4	3/8	2-1/8	**DJ50AC616**	Price	**DS9010269**	Price	**DJ55AC616CO**	Price	**DS9220269**	Price
3/4	5/16	3/8	2-1/8	**DJ50AC624**	Price	**DS9010270**	Price	**DJ55AC624CO**	Price	**DS9220270**	Price
1-3/8	9/16	5/8	2-7/8	**DJ50AC644**	Price	**DS9010272**	Price	**DJ55AC644CO**	Price	**DS9220272**	Price
1-7/8	13/16	7/8	3-1/4	**DJ50AC660**	Price	**DS9010273**	Price	**DJ55AC660CO**	Price	**DS9220273**	Price
2-1/4	1-1/16	1	3-3/4	**DJ50AC672**	Price	**DS9010274**	Price	**DJ55AC672CO**	Price	**DS9220274**	Price

Carbide Tipped Cutters available upon request

PROCUT Shank Type Dovetail Cutter Sets

High Speed Steel or Cobalt



Type	No. of Pieces	Set Range (in.)	Angle	Material	Order No.	Price
Dovetail	5	1/2, 3/4, 1-3/8, 1-7/8, 2-1/4	45°	High Speed Steel	**DJ50AC4S**	Price
Dovetail	5	1/2, 3/4, 1-3/8, 1-7/8, 2-1/4	60°	High Speed Steel	**DJ50AC6S**	Price
Dovetail	5	1/2, 3/4, 1-3/8, 1-7/8, 2-1/4	45°	Cobalt	**DJ55AC4SCO**	Price
Dovetail	5	1/2, 3/4, 1-3/8, 1-7/8, 2-1/4	60°	Cobalt	**DJ55AC6SCO**	Price

MICRO 100 Solid Carbide Dovetail Cutters



Uncoated or AlTiN Coated

- Corner radii enhances tool strength and rigidity
- Engineered for superior rupture strength and exceptional machining versatility
- Manufactured with Micro 100's exclusive proprietary treating process
- Shank diameter tolerance: -.0001" to -.0003"
- Cutter diameter tolerance: +.000" -.002"
- Included angle tolerance: +/- 1°
- Length of cut tolerance: +.020" -.000"
- Maximum TIR: .0005"

Included Angle - 30°

						Uncoated		AlTiN	
Cutter Dia. (in.)	Cutter Length (in.)	Neck Length (in.)	Neck Dia. (in.)	No. of Flutes	OAL (in.)	Order No.	Price	Order No.	Price
1/8	.095	1/8	.080	2	1-1/2	**GE45T125030010**	Price	**GE45T125030010X**	Price
3/16	.127	1/8	.125	2	2	**GE45T187030010**	Price	**GE45T187030010X**	Price
1/4	.161	1/8	.170	2	2-1/2	**GE45T250030010**	Price	**GE45T250030010X**	Price
5/16	.220	5/16	.200	2	2-1/2	**GE45T312030010**	Price	**GE45T312030010X**	Price
3/8	.263	3/8	.240	3	2-1/2	**GE45T375030010**	Price	**GE45T375030010X**	Price
1/2	.347	1/2	.320	3	3	**GE45T500030010**	Price	**GE45T500030010X**	Price

Included Angle - 60°

						Uncoated		AlTiN	
Cutter Dia. (in.)	Cutter Length (in.)	Neck Length (in.)	Neck Dia. (in.)	No. of Flutes	OAL (in.)	Order No.	Price	Order No.	Price
1/8	.065	1/8	.065	2	1-1/2	**GE45T125060010**	Price	**GE45T125060010X**	Price
3/16	.092	1/8	.095	2	2	**GE45T187060010**	Price	**GE45T187060010X**	Price
1/4	.125	1/8	.120	2	2-1/2	**GE45T250060010**	Price	**GE45T250060010X**	Price
5/16	.162	5/16	.140	2	2-1/2	**GE45T312060010**	Price	**GE45T312060010X**	Price
3/8	.190	3/8	.170	3	2-1/2	**GE45T375060010**	Price	**GE45T375060010X**	Price
1/2	.255	1/2	.220	3	3	**GE45T500060010**	Price	**GE45T500060010X**	Price

Included Angle - 90°

						Uncoated		AlTiN	
Cutter Dia. (in.)	Cutter Length (in.)	Neck Length (in.)	Neck Dia. (in.)	No. of Flutes	OAL (in.)	Order No.	Price	Order No.	Price
1/8	.042	1/8	.070	2	1-1/2	**GE45T125090010**	Price	**GE45T125090010X**	Price
3/16	.048	1/8	.070	2	2	**GE45T187090010**	Price	**GE45T187090010X**	Price
1/4	.064	1/8	.150	2	2-1/2	**GE45T250090010**	Price	**GE45T250090010X**	Price
5/16	.095	5/16	.150	2	2-1/2	**GE45T312090010**	Price	**GE45T312090010X**	Price
3/8	.127	3/8	.150	3	2-1/2	**GE45T375090010**	Price	**GE45T375090010X**	Price
1/2	.164	1/2	.200	3	3	**GE45T500090010**	Price	**GE45T500090010X**	Price

Carbide Tipped Side Milling Cutters

For non-ferrous material:

- Use for production milling of aluminum, magnesium, zinc, brass, bronze, plastics and non-metals
- Very large flute capacity assures good chip flow and permits high feed rates.



For cast iron:

- Use for heavy production milling of cast iron and malleable iron
- Large flute capacity but more teeth permits high metal removal at moderate speeds and feeds



- **For steel and tougher, harder alloys:**
- Steel cutting grade of carbide permits the heavy chip loads recommended for milling steel



Tooth Type - Straight

			Cast Iron			Non-Ferrous Materials			Price		
Dia. (in.)	Face Width (in.)	Hole Size (in.)	No. of Teeth	Order No.	Price	No. of Teeth	Order No.	Price	No. of Teeth	Order No.	Price
3	1/4	1	6	**EG51016**	Price	4	**EG50016**	Price	6	**EG52016**	Price
3	5/16	1	6	**EG51018**	Price	4	**EG50018**	Price	6	**EG52018**	Price
3	3/8	1	6	**EG51020**	Price	4	**EG50020**	Price	6	**EG52020**	Price
3	7/16	1	-	**-**	-	4	**EG50022**	Price	-	**-**	-
3	1/2	1	6	**EG51024**	Price	4	**EG50024**	Price	6	**EG52024**	Price
4	1/4	1	8	**EG51040**	Price	4	**EG50040**	Price	8	**EG52040**	Price
4	5/16	1	8	**EG51042**	Price	4	**EG50042**	Price	8	**EG52042**	Price
4	3/8	1	8	**EG51044**	Price	4	**EG50044**	Price	8	**EG52044**	Price
4	3/8	1-1/4	8	**EG51046**	Price	4	**EG50046**	Price	8	**EG52046**	Price
4	7/16	1	-	**-**	-	4	**EG50048**	Price	-	**-**	-
4	1/2	1	8	**EG51050**	Price	4	**EG50050**	Price	8	**EG52050**	Price
4	1/2	1-1/4	8	**EG51052**	Price	4	**EG50052**	Price	8	**EG52052**	Price
4	9/16	1	8	**EG51054**	Price	4	**EG50054**	Price	-	**-**	-
4	5/8	1	8	**EG51056**	Price	4	**EG50056**	Price	8	**EG52056**	Price
4	5/8	1-1/4	8	**EG51058**	Price	4	**EG50058**	Price	8	**EG52058**	Price
4	3/4	1	8	**EG51060**	Price	4	**EG50060**	Price	-	**-**	-
4	3/4	1-1/4	8	**EG51062**	Price	4	**EG50062**	Price	-	**-**	-
5	7/16	1-1/4	-	**-**	-	6	**EG50080**	Price	-	**-**	-
5	1/2	1	10	**EG51082**	Price	6	**EG50082**	Price	10	**EG52082**	Price
5	1/2	1-1/4	10	**EG51084**	Price	6	**EG50084**	Price	10	**EG52084**	Price
5	9/16	1-1/4	10	**EG51086**	Price	6	**EG50086**	Price	10	**EG52086**	Price
5	5/8	1-1/4	10	**EG51088**	Price	6	**EG50088**	Price	10	**EG52088**	Price
5	3/4	1	10	**EG51090**	Price	6	**EG50090**	Price	-	**-**	-
5	3/4	1-1/4	10	**EG51092**	Price	6	**EG50092**	Price	-	**-**	-
6	1/2	1	12	**EG51108**	Price	6	**EG50108**	Price	12	**EG52108**	Price
6	1/2	1-1/4	12	**EG51110**	Price	6	**EG50110**	Price	12	**EG52110**	Price
6	5/8	1-1/4	12	**EG51112**	Price	6	**EG50112**	Price	12	**EG52112**	Price
6	3/4	1	12	**EG51114**	Price	6	**EG50114**	Price	-	**-**	-
6	3/4	1-1/4	12	**EG51116**	Price	6	**EG50116**	Price	-	**-**	-
8	3/4	1-1/4	12	**EG51140**	Price	8	**EG50140**	Price	-	**-**	-
8	3/4	1-1/2	12	**EG51142**	Price	8	**EG50142**	Price	-	**-**	-

Straight Tooth Side Milling Cutters

High Speed Steel

- For general purpose use
- Excellent for thin-walled parts, interrupted cuts or finish requirements
- Keo Milling “B” Style



			Keo Milling			ProCut		
Cutter Dia.	Face Width	Hole Size	No. of Teeth	Order No.	Price	No. of Teeth	Order No.	Price
2	3/16	1/2	14	**KE1005000**	Price	14	**DP5020061**	Price
2	3/16	5/8	14	**KE1005010**	Price	14	**DP5020062**	Price
2	1/4	1/2	14	**KE1005020**	Price	14	**DP5020081**	Price
2	1/4	5/8	14	**KE1005030**	Price	14	**DP5020082**	Price
2	1/4	7/8	-	**-**	-	14	**DP5020083**	Price
2	5/16	7/8	-	**-**	-	14	**DP5020103**	Price
2	3/8	1/2	14	**KE1005040**	Price	14	**DP5020121**	Price
2	3/8	5/8	14	**KE1005050**	Price	14	**DP5020122**	Price
2	3/8	7/8	-	**-**	-	14	**DP5020123**	Price
2	7/16	7/8	-	**-**	-	14	**DP5020143**	Price
2-1/2	3/16	7/8	-	**-**	-	16	**DP5025061**	Price
2-1/2	3/16	1	-	**-**	-	16	**DP5025062**	Price
2-1/2	1/4	7/8	16	**KE1005060**	Price	16	**DP5025081**	Price
2-1/2	1/4	1	-	**-**	-	16	**DP5025082**	Price
2-1/2	5/16	7/8	16	**KE1005070**	Price	16	**DP5025101**	Price
2-1/2	5/16	1	-	**-**	-	16	**DP5025102**	Price
2-1/2	3/8	7/8	16	**KE1005080**	Price	16	**DP5025121**	Price
2-1/2	3/8	1	-	**-**	-	16	**DP5025122**	Price
2-1/2	7/16	7/8	-	**-**	-	16	**DP5025141**	Price
2-1/2	7/16	1	-	**-**	-	16	**DP5025142**	Price
2-1/2	1/2	7/8	-	**-**	-	16	**DP5025161**	Price
2-1/2	1/2	1	-	**-**	-	16	**DP5025162**	Price
2-1/2	5/8	1	-	**-**	-	16	**DP5025202**	Price
3	3/16	1	20	**KE1005100**	Price	18	**DP5030061**	Price
3	7/32	1	20	**KE1005110**	Price	-	**-**	-
3	1/4	1	20	**KE1005120**	Price	18	**DP5030081**	Price
3	1/4	1-1/4	-	**-**	-	18	**DP5030082**	Price
3	9/32	1	20	**KE1005130**	Price	18	**DP5030091**	Price
3	5/16	1	20	**KE1005140**	Price	18	**DP5030101**	Price
3	11/32	1	20	**KE1005150**	Price	18	**DP5030111**	Price
3	3/8	1	20	**KE1005160**	Price	18	**DP5030121**	Price
3	3/8	1-1/4	-	**-**	-	18	**DP5030122**	Price
3	13/32	1	20	**KE1005170**	Price	18	**DP5030131**	Price
3	7/16	1	20	**KE1005180**	Price	18	**DP5030141**	Price
3	7/16	1-1/4	-	**-**	-	18	**DP5030142**	Price
3	1/2	1	20	**KE1005190**	Price	18	**DP5030161**	Price
3	1/2	1-1/4	-	**-**	-	18	**DP5030162**	Price
3	1/2	7/8	16	**KE1005090**	Price	-	**-**	-
3	9/16	1	20	**KE1005200**	Price	18	**DP5030181**	Price
3	5/8	1	20	**KE1005210**	Price	18	**DP5030201**	Price
3	11/16	1	20	**KE1005220**	Price	18	**DP5030221**	Price
3	3/4	1	20	**KE1005230**	Price	18	**DP5030241**	Price
3	3/4	1-1/4	-	**-**	-	18	**DP5030242**	Price
3	13/16	1	20	**KE1005240**	Price	18	**DP5030261**	Price
3	7/8	1	20	**KE1005250**	Price	18	**DP5030281**	Price
3	15/16	1	20	**KE1005260**	Price	18	**DP5030301**	Price
3	1	1	20	**KE1005270**	Price	18	**DP5030321**	Price
3	1	1-1/4	-	**-**	-	18	**DP5030322**	Price
3-1/2	3/16	1	-	**-**	-	20	**DP5035061**	Price
3-1/2	1/4	1	-	**-**	-	20	**DP5035081**	Price
3-1/2	5/16	1	-	**-**	-	20	**DP5035101**	Price
3-1/2	3/8	1	-	**-**	-	20	**DP5035121**	Price

			Keo Milling			ProCut		
Cutter Dia.	Face Width	Hole Size	No. of Teeth	Order No.	Price	No. of Teeth	Order No.	Price
3-1/2	1/2	1	-	**-**	-	20	**DP5035161**	Price
3-1/2	5/8	1	-	**-**	-	20	**DP5035201**	Price
4	3/16	1	-	**-**	-	22	**DP5040061**	Price
4	7/32	1	24	**KE1005281**	Price	22	**DP5040071**	Price
4	7/32	1-1/4	24	**KE1005290**	Price	-	**-**	-
4	1/4	1	24	**KE1005300**	Price	22	**DP5040081**	Price
4	1/4	1-1/4	24	**KE1005310**	Price	22	**DP5040082**	Price
4	9/32	1	24	**KE1005320**	Price	22	**DP5040091**	Price
4	9/32	1-1/4	24	**KE1005330**	Price	-	**-**	-
4	5/16	1	24	**KE1005340**	Price	22	**DP5040101**	Price
4	5/16	1-1/4	24	**KE1005350**	Price	22	**DP5040102**	Price
4	11/32	1	24	**KE1005360**	Price	22	**DP5040111**	Price
4	11/32	1-1/4	24	**KE1005370**	Price	-	**-**	-
4	3/8	1	24	**KE1005380**	Price	22	**DP5040121**	Price
4	3/8	1-1/4	24	**KE1005390**	Price	22	**DP5040122**	Price
4	13/32	1	24	**KE1005400**	Price	-	**-**	-
4	13/32	1-1/4	24	**KE1005410**	Price	22	**DP5040142**	Price
4	7/16	1	24	**KE1005420**	Price	22	**DP5040131**	Price
4	7/16	1-1/4	24	**KE1005430**	Price	22	**-**	-
4	1/2	1	24	**KE1005440**	Price	22	**DP5040161**	Price
4	1/2	1-1/4	24	**KE1005450**	Price	22	**DP5040162**	Price
4	9/16	1	24	**KE1005460**	Price	-	**-**	-
4	9/16	1-1/4	24	**KE1005470**	Price	22	**DP5040182**	Price
4	5/8	1	24	**KE1005480**	Price	22	**DP5040201**	Price
4	5/8	1-1/4	24	**KE1005490**	Price	22	**DP5040202**	Price
4	11/16	1	24	**KE1005500**	Price	-	**-**	-
4	11/16	1-1/4	24	**KE1005510**	Price	-	**-**	-
4	3/4	1	24	**KE1005520**	Price	22	**DP5040241**	Price
4	3/4	1-1/4	24	**KE1005530**	Price	22	**DP5040242**	Price
4	13/16	1	24	**KE1005540**	Price	-	**-**	-
4	13/16	1-1/4	24	**KE1005550**	Price	-	**-**	-
4	7/8	1	24	**KE1005560**	Price	22	**DP5040281**	Price
4	7/8	1-1/4	24	**KE1005570**	Price	22	**DP5040282**	Price
4	15/16	1	24	**KE1005580**	Price	22	**DP5040301**	Price
4	15/16	1-1/4	24	**KE1005590**	Price	22	**DP5040302**	Price
4	1	1	24	**KE1005600**	Price	22	**DP5040321**	Price
4	1	1-1/4	24	**KE1005610**	Price	22	**DP5040322**	Price
4	1-1/4	1-1/4	-	**-**	-	22	**DP5040402**	Price
4-1/2	1/2	1-1/4	-	**-**	-	24	**DP5045162**	Price
5	1/4	1	26	**KE1005626**	Price	24	**DP5050081**	Price
5	1/4	1-1/4	26	**KE1005630**	Price	24	**DP5050082**	Price
5	9/32	1	26	**KE1005640**	Price	24	**DP5050091**	Price
5	9/32	1-1/4	26	**KE1005650**	Price	-	**-**	-
5	5/16	1	26	**KE1005660**	Price	24	**DP5050101**	Price
5	5/16	1-1/4	26	**KE1005670**	Price	24	**DP5050102**	Price
5	11/32	1	26	**KE1005680**	Price	-	**-**	-
5	11/32	1-1/4	26	**KE1005690**	Price	-	**-**	-
5	3/8	1	26	**KE1005700**	Price	24	**DP5050121**	Price
5	3/8	1-1/4	26	**KE1005710**	Price	24	**DP5050122**	Price
5	13/32	1	26	**KE1005720**	Price	-	**-**	-
5	13/32	1-1/4	26	**KE1005730**	Price	-	**-**	-
5	7/16	1	26	**KE1005740**	Price	-	**-**	-

Straight Tooth Side Milling Cutters

High Speed Steel

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- Keo Milling “B” Style



			Keo Milling			ProCut		
Cutter Dia.	Face Width	Hole Size	No. of Teeth	Order No.	Price	No. of Teeth	Order No.	Price
5	7/16	1-1/4	26	KE1005750	Price	24	DP5050142	Price
5	1/2	1	26	KE1005760	Price	24	DP5050161	Price
5	1/2	1-1/4	26	KE1005770	Price	24	DP5050162	Price
5	9/16	1	26	KE1005780	Price	-	-	-
5	9/16	1-1/4	26	KE1005790	Price	24	DP5050182	Price
5	5/8	1	26	KE1005800	Price	24	DP5050201	Price
5	5/8	1-1/4	26	KE1005810	Price	24	DP5050202	Price
5	11/16	1	26	KE1005820	Price	24	DP5050221	Price
5	11/16	1-1/4	26	KE1005830	Price	-	-	-
5	3/4	1	26	KE1005840	Price	24	DP5050241	Price
5	3/4	1-1/4	26	KE1005850	Price	24	DP5050242	Price
5	13/16	1	26	KE1005860	Price	24	DP5050261	Price
5	13/16	1-1/4	26	KE1005870	Price	24	DP5050262	Price
5	7/8	1	26	KE1005880	Price	24	DP5050281	Price
5	7/8	1-1/4	26	KE1005890	Price	24	DP5050282	Price
5	15/16	1	26	KE1005900	Price	24	DP5050301	Price
5	15/16	1-1/4	26	KE1005910	Price	24	DP5050302	Price
5	1	1	26	KE1005920	Price	-	-	-
5	1	1-1/4	26	KE1005930	Price	24	DP5050322	Price
6	1/4	1	-	-	-	26	DP5060081	Price
6	1/4	1-1/4	30	KE1005945	Price	26	DP5060082	Price
6	9/32	1-1/4	30	KE1005950	Price	26	DP5060092	Price
6	5/16	1	-	-	-	26	DP5060101	Price
6	5/16	1-1/4	30	KE1005960	Price	26	DP5060102	Price
6	11/32	1-1/4	30	KE1005965	Price	26	DP5060112	Price
6	3/8	1	-	-	-	26	DP5060121	Price
6	3/8	1-1/4	30	KE1005980	Price	26	DP5060122	Price
6	13/32	1-1/4	30	KE1005990	Price	-	-	-
6	7/16	1	-	-	-	26	DP5060141	Price
6	7/16	1-1/4	30	KE1006000	Price	26	DP5060142	Price
6	1/2	1	30	KE1006010	Price	26	DP5060161	Price
6	1/2	1-1/4	30	KE1006020	Price	26	DP5060162	Price
6	9/16	1	-	-	-	26	DP5060181	Price
6	9/16	1-1/4	30	KE1006030	Price	26	DP5060182	Price
6	5/8	1-1/4	30	KE1006040	Price	26	DP5060202	Price
6	11/16	1	-	-	-	26	DP5060221	Price
6	11/16	1-1/4	30	KE1006050	Price	26	DP5060222	Price
6	3/4	1	30	KE1006060	Price	26	DP5060241	Price
6	3/4	1-1/4	30	KE1006070	Price	26	DP5060242	Price
6	13/16	1	-	-	-	26	DP5060261	Price
6	13/16	1-1/4	30	KE1006080	Price	26	DP5060262	Price
6	7/8	1-1/4	30	KE1006090	Price	26	DP5060282	Price
6	15/16	1-1/4	30	KE1006100	Price	26	-	-
6	1	1-1/4	30	KE1006110	Price	26	DP5060322	Price
7	1/4	1-1/4	32	KE1006120	Price	-	-	-
7	5/16	1-1/4	32	KE1006130	Price	-	-	-
7	3/8	1-1/4	32	KE1006140	Price	-	-	-
7	7/16	1-1/4	32	KE1006150	Price	-	-	-
7	1/2	1-1/4	32	KE1006160	Price	-	-	-
7	9/16	1-1/4	32	KE1006170	Price	-	-	-

			Keo Milling			ProCut		
Cutter Dia.	Face Width	Hole Size	No. of Teeth	Order No.	Price	No. of Teeth	Order No.	Price
7	5/8	1-1/4	32	KE1006180	Price	-	-	-
7	11/16	1-1/4	32	KE1006190	Price	28		Price
7	3/4	1-1/4	32	KE1006200	Price	-	-	-
7	13/16	1-1/4	32	KE1006210	Price	28	DP5070261	Price
7	7/8	1-1/4	32	KE1006220	Price	28	DP5070281	Price
7	15/16	1-1/4	32	KE1006230	Price	-	-	-
7	1	1-1/4	32	KE1006240	Price	28	DP5070321	Price
8	1/4	1	-	-	-	32	DP5080081	Price
8	1/4	1-1/4	34	KE1006250	Price	32	DP5080082	Price
8	5/16	1	-	-	-	32	DP5080101	Price
8	5/16	1-1/4	34	KE1006260	Price	-	-	-
8	3/8	1-1/4	34	KE1006270	Price	32	DP5080122	Price
8	7/16	1-1/4	34	KE1006280	Price	-	-	-
8	1/2	1-1/4	34	KE1006290	Price	32	DP5080162	Price
8	9/16	1-1/4	34	KE1006300	Price	-	-	-
8	5/8	1-1/4	34	KE1006310	Price	32	DP5080202	Price
8	11/16	1-1/4	34	KE1006320	Price	-	-	-
8	3/4	1-1/4	34	KE1006330	Price	32	DP5080242	Price
8	13/16	1-1/4	34	KE1006340	Price	32	DP5080262	Price
8	7/8	1-1/4	34	KE1006350	Price	-	-	-
8	15/16	1-1/4	34	KE1006360	Price	32	DP5080302	Price
8	1	1-1/4	34	KE1006370	Price	32	DP5080322	Price
9	1/4	1-1/4	36	KE1006380	Price	-	-	-
9	5/16	1-1/4	36	KE1006390	Price	-	-	-
9	3/8	1-1/4	36	KE1006400	Price	-	-	-
9	7/16	1-1/4	36	KE1006410	Price	-	-	-
9	1/2	1-1/4	36	KE1006420	Price	-	-	-
9	9/16	1-1/4	36	KE1006430	Price	-	-	-
9	5/8	1-1/4	36	KE1006440	Price	-	-	-
9	11/16	1-1/4	36	KE1006450	Price	-	-	-
9	3/4	1-1/4	36	KE1006460	Price	34	DP5090241	Price
9	13/16	1-1/4	36	KE1006470	Price	-	-	-
9	7/8	1-1/4	36	KE1006480	Price	-	-	-
9	15/16	1-1/4	36	KE1006490	Price	-	-	-
9	1	1-1/4	36	KE1006500	Price	-	-	-
10	1/4	1-1/2	38	KE1006510	Price	-	-	-
10	5/16	1-1/2	38	KE1006520	Price	-	-	-
10	3/8	1-1/2	38	KE1006530	Price	-	-	-
10	7/16	1-1/2	38	KE1006540	Price	-	-	-
10	1/2	1-1/2	38	KE1006550	Price	-	-	-
10	9/16	1-1/2	38	KE1006560	Price	36	DP50100182	Price
10	5/8	1-1/2	38	KE1006570	Price	36	DP50100202	Price
10	11/16	1-1/2	38	KE1006580	Price	-	-	-
10	3/4	1-1/2	38	KE1006590	Price	-	-	-
10	13/16	1-1/2	38	KE1006600	Price	36	DP50100262	Price
10	7/8	1-1/2	38	KE1006610	Price	36	DP50100282	Price
10	15/16	1-1/2	38	KE1006620	Price	36	DP50100302	Price
10	1	1-1/2	38	KE1006630	Price	-	-	-

Carbide Tipped Side Milling Cutters for Stainless Steel and Hi-Tech Alloys



- Use for production milling of stainless steel and related alloy steels, including AISI Type 200 thru 350 steels
- Larger number of teeth

Dia. (in.)	Face Width (in.)	Hole Size (in.)	No. of Teeth	Order No.	Price
3	1/4	1	8	**EG54016**	Price
3	5/16	1	8	**EG54018**	Price
3	3/8	1	8	**EG54020**	Price
3	1/2	1	8	**EG54024**	Price
4	1/4	1	10	**EG54040**	Price
4	5/16	1	10	**EG54042**	Price
4	3/8	1	10	**EG54044**	Price
4	3/8	1-1/4	10	**EG54046**	Price
4	1/2	1	10	**EG54050**	Price
4	1/2	1-1/4	10	**EG54052**	Price
4	5/8	1	10	**EG54056**	Price
4	5/8	1-1/4	10	**EG54058**	Price
4	3/4	1	10	**EG54060**	Price
4	3/4	1-1/4	10	**EG54062**	Price
5	1/2	1	12	**EG54082**	Price
5	1/2	1-1/4	12	**EG54084**	Price
5	5/8	1-1/4	12	**EG54088**	Price
5	3/4	1-1/4	12	**EG54094**	Price
6	1/2	1	14	**EG54108**	Price
6	1/2	1-1/4	14	**EG54110**	Price
6	5/8	1-1/4	14	**EG54112**	Price
6	3/4	1	14	**EG54114**	Price
6	3/4	1-1/4	14	**EG54116**	Price
8	3/4	1-1/4	14	**EG54140**	Price

PROCUT Double Angle Milling Cutters

High Speed Steel 45° — 60° — 90° Angles



Dia. (in.)	Face Width (in.)	Hole Dia. (in.)	Angle	No. of Teeth	Order No.	Price
2-3/4	1/2	1	45°	18	**DS525718005**	Price
2-3/4	1/2	1	60°	18	**DS525718010**	Price
2-3/4	1/2	1	90°	18	**DS525718015**	Price
3	3/4	1	60°	22	**DS525718035**	Price
3	3/4	1	90°	22	**DS525718040**	Price
3	5/8	1	45°	22	**DS525718020**	Price
3	5/8	1	60°	22	**DS525718025**	Price
3	5/8	1	90°	22	**DS525718030**	Price
4	1	1-1/4	60°	26	**DS525718090**	Price
4	1	1-1/4	90°	26	**DS525718095**	Price
4	1/2	1-1/4	45°	26	**DS525718045**	Price
4	1/2	1-1/4	60°	26	**DS525718050**	Price
4	1/2	1-1/4	90°	26	**DS525718055**	Price
4	3/4	1	45°	26	**DS525718060**	Price
4	3/4	1	60°	26	**DS525718065**	Price
4	3/4	1	90°	26	**DS525718070**	Price
4	3/4	1-1/4	45°	26	**DS525718075**	Price
4	3/4	1-1/4	60°	26	**DS525718080**	Price
4	3/4	1-1/4	90°	26	**DS525718085**	Price
5	1	1-1/4	45°	28	**DS525718115**	Price
5	1	1-1/4	60°	28	**DS525718120**	Price
6	1	1-1/4	45°	30	**DS525718145**	Price
6	1	1-1/4	60°	30	**DS525718150**	Price
6	1-1/2	1-1/4	45°	30	**DS525718160**	Price
6	3/4	1-1/4	45°	30	**DS525718130**	Price
6	3/4	1-1/4	60°	30	**DS525718135**	Price
6	3/4	1-1/4	90°	30	**DS525718140**	Price

PROCUT Single Angle Milling Cutters

High Speed Steel Right Hand and Left Hand • 45° and 60° Angles



Left Hand



Right Hand

					Left Hand		Right Hand	
Dia. (in.)	Face Width (in.)	Hole Size (in.)	Angle	No. of Teeth	Order No.	Price	Order No.	Price
-	-	-	-	-	-	-	**DS505712005**	Price
2-1/2	1/2	7/8	60°	18	**DS515715010**	Price	**DS505712010**	Price
2-3/4	1/2	1	45°	18	**DS515715015**	Price	**DS505712015**	Price
2-3/4	1/2	1	60°	18	**DS515715020**	Price	**DS505712020**	Price
-	-	-	-	-	-	-	**DS505712025**	Price
3	1/2	1-1/4	60°	22	**DS515715030**	Price	**DS505712030**	Price
3	5/8	1	45°	22	**DS515715035**	Price	**DS505712035**	Price
3	5/8	1	60°	22	-	-	**DS505712040**	Price
3	5/8	1-1/4	60°	22	**DS515715050**	Price	**DS505712050**	Price
3	3/4	1	45°	22	-	-	**DS505712055**	Price
3	3/4	1	60°	22	**DS515715060**	Price	**DS505712060**	Price
3	3/4	1-1/4	60°	22	**DS515715070**	Price	**DS505712070**	Price
4	1/2	1	45°	26	**DS515715075**	Price	**DS505712075**	Price
4	1/2	1	60°	26	-	-	**DS505712080**	Price
4	1/2	1-1/4	60°	26	-	-	**DS505712090**	Price
4	1/2	1-1/4	45°	26	**DS515715085**	Price	-	-
4	3/4	1	45°	26	**DS515715095**	Price	**DS505712095**	Price
-	-	-	-	-	-	-	**DS505712100**	Price
4	3/4	1-1/4	45°	26	**DS515715105**	Price	**DS505712105**	Price
4	3/4	1-1/4	60°	26	**DS515715110**	Price	**DS505712110**	Price
4	1	1-1/4	45°	26	**DS515715115**	Price	**DS505712115**	Price
-	-	-	-	-	-	-	**DS505712120**	Price
5	3/4	1-1/4	60°	28	**DS515715130**	Price	**DS505712130**	Price
-	-	-	-	-	-	-	**DS505712135**	Price
5	1	1-1/4	60°	28	-	-	**DS505712140**	Price
6	3/4	1-1/4	45°	30	-	-	**DS505712145**	Price
6	3/4	1-1/4	60°	30	**DS515715150**	Price	-	-
6	1	1-1/4	60°	30	**DS515715160**	Price	-	-

Carbide Tipped Metal Slitting Saws



For Use With - Non-Ferrous Materials					
Dia. (in.)	Face Width (in.)	Hole Size (in.)	No. of Teeth	Order No.	Price
4	3/32	1	6	**EF50011**	Price
4	1/8	1	6	**EF50013**	Price
4	3/16	1	6	**EF50015**	Price
6	1/8	1-1/4	8	**EF50027**	Price
8	1/8	1-1/4	10	**EF50043**	Price

For Use With - Cast Iron					
Dia. (in.)	Face Width (in.)	Hole Size (in.)	No. of Teeth	Order No.	Price
4	1/8	1	8	**EF51011**	Price
4	3/16	1	8	**EF51013**	Price
6	1/8	1-1/4	12	**EF51025**	Price
6	3/16	1-1/4	12	**EF51027**	Price
6	1/4	1-1/4	12	**EF51029**	Price
8	3/16	1-1/4	16	**EF51041**	Price
8	1/4	1-1/4	16	**EF51043**	Price

For Use With - Steel					
Dia. (in.)	Face Width (in.)	Hole Size (in.)	No. of Teeth	Order No.	Price
4	1/8	1	8	**EF52011**	Price
4	3/16	1	8	**EF52013**	Price
6	1/8	1-1/4	12	**EF52025**	Price
6	3/16	1-1/4	12	**EF52027**	Price
6	1/4	1-1/4	12	**EF52029**	Price

For Use With - Steel					
Dia. (in.)	Face Width (in.)	Hole Size (in.)	No. of Teeth	Order No.	Price
8	3/16	1-1/4	16	**EF52041**	Price
8	1/4	1-1/4	16	**EF52043**	Price

For Use With - Stainless Steel					
Dia. (in.)	Face Width (in.)	Hole Size (in.)	No. of Teeth	Order No.	Price
3	3/32	1	8	**EF53003**	Price
3	1/8	1	8	**EF53004**	Price
3	3/16	1	8	**EF53006**	Price
4	3/32	1	10	**EF53009**	Price
4	1/8	1	10	**EF53010**	Price
4	3/16	1	10	**EF53012**	Price
5	3/32	1	12	**EF53015**	Price
5	1/8	1	12	**EF53017**	Price
5	3/16	1	12	**EF53019**	Price
6	1/8	1-1/4	14	**EF53021**	Price
6	3/16	1-1/4	14	**EF53023**	Price
6	1/4	1-1/4	14	**EF53025**	Price

Concave Milling Cutters

High Speed Steel



Dia. of Circle (in.)	Cutter Dia. (in.)	Hole Size (in.)	Order No.	Price
1/8	2-1/4	1	**ED51CC040**	Price
5/32	2-1/4	1	**ED51CC050**	Price
3/16	2-1/4	1	**ED51CC060**	Price
7/32	2-1/4	1	**ED51CC070**	Price
1/4	2-1/2	1	**ED51CC080**	Price
9/32	2-1/2	1	**ED51CC090**	Price
5/16	2-3/4	1	**ED51CC100**	Price
3/8	2-3/4	1	**ED51CC120**	Price
7/16	3	1	**ED51CC140**	Price
1/2	2-1/4	7/8	**ED51CC161**	Price
9/16	3	1	**ED51CC180**	Price
5/8	2-3/4	1	**ED51CC202**	Price
5/8	3	1	**ED51CC201**	Price
5/8	3-1/2	1-1/4	**ED51CC200**	Price
11/16	3	1	**ED51CC220**	Price
3/4	3	1	**ED51CC240**	Price
3/4	3-3/4	1-1/4	**ED51CC241**	Price
7/8	3-1/4	1	**ED51CC280**	Price
15/16	3-1/2	1	**ED51CC300**	Price
1	3-1/4	1	**ED51CC320**	Price
1	4-1/4	1-1/4	**ED51CC321**	Price
1-1/16	4	1-1/4	**ED51CC340**	Price
1-1/4	4	1-1/4	**ED51CC400**	Price
1-1/2	4-1/4	1-1/4	**ED51CC480**	Price
1-3/4	5-1/2	1-1/4	**ED51CC560**	Price
1-7/8	6	1-1/2	**ED51CC600**	Price

Convex Milling Cutters

High Speed Steel



Circle Dia. (in.)	Cutter Dia. (in.)	Hole Size (in.)	Order No.	Price
3/32	2-1/4	1	**ED50CV030**	Price
1/8	2	7/8	**ED50CV040**	Price
1/8	2-1/4	1	**ED50CV041**	Price
5/32	2-1/4	1	**ED50CV050**	Price
3/16	2-1/4	1	**ED50CV061**	Price
1/4	2	7/8	**ED50CV080**	Price
1/4	2-1/2	1	**ED50CV081**	Price
1/4	2-1/4	1	**ED50CV082**	Price
9/32	2-1/2	1	**ED50CV090**	Price
5/16	2-3/4	1	**ED50CV100**	Price
11/32	2-3/4	1	**ED50CV110**	Price
3/8	2-1/4	7/8	**ED50CV120**	Price
3/8	2-3/4	1	**ED50CV121**	Price
13/32	2-3/4	1	**ED50CV130**	Price
7/16	3	1	**ED50CV140**	Price
1/2	3	1	**ED50CV161**	Price
9/16	2-3/4	1	**ED50CV180**	Price
9/16	3	1	**ED50CV181**	Price
5/8	2-3/4	1	**ED50CV200**	Price
5/8	3	1	**ED50CV201**	Price
5/8	3-1/2	1-1/4	**ED50CV202**	Price
11/16	3	1	**ED50CV220**	Price
3/4	3-3/4	1-1/4	**ED50CV241**	Price
7/8	3-1/4	1	**ED50CV280**	Price
7/8	4	1-1/4	**ED50CV281**	Price
1-3/8	4-1/4	1-1/4	**ED50CV440**	Price
1-1/2	4-1/4	1-1/4	**ED50CV480**	Price
1-5/8	5-1/2	1-1/4	**ED50CV520**	Price

PROCUT Jewelers Slotting Saws

High Speed Steel

- Designed for cutting off thin tubing and wire and for slotting very thin material



			1/4" Hole	5/16" Hole	3/8" Hole	1/2" Hole	
Dia. (in.)	Thick-ness	No. of Teeth	Order No.	Order No.	Order No.	Order No.	Price
1	.008	98	DZ53746001	DZ53746002	DZ53746003	DZ53746004	Price
1	.010	98	-	DZ53746007	DZ53746005	-	Price
1	.012	98	DZ53746011	-	DZ53746010	DZ53746013	Price
1	.014	76	DZ53746016	DZ53746017†	DZ53746015	DZ53746018	Price
1	.016	76	DZ53746021	DZ53746022†	DZ53746020	DZ53746023	Price
1	.018	76	DZ53746026	DZ53746027†	DZ53746025	DZ53746028	Price
1	.020	76	DZ53746031	DZ53746032	DZ53746030	DZ53746033	Price
1	.023	76	-	DZ53746037†	DZ53746035	DZ53746038	Price
1	.025	76	DZ53746039	DZ53746041†	DZ53746040	DZ53746042	Price
1	.028	76	DZ53746043	DZ53746044†	DZ53746045	DZ53746046	Price
1	.032	76	DZ53746047	-	DZ53746050	DZ53746049	Price
1-1/4	.008	120	-	DZ53746051†	DZ53746052	DZ53746053	Price
1-1/4	.010	120	-	-	DZ53746055	DZ53746056	Price
1-1/4	.012	120	-	DZ53746059†	DZ53746060	DZ53746061	Price
1-1/4	.014	98	-	DZ53746064†	DZ53746065	DZ53746066	Price
1-1/4	.016	98	-	-	DZ53746070	DZ53746071	Price
1-1/4	.018	98	-	DZ53746074	-	DZ53746076	Price
1-1/4	.020	98	-	DZ53746079	DZ53746080	DZ53746081	Price
1-1/4	.023	98	-	DZ53746084	DZ53746085	-	Price
1-1/4	.025	98	-	DZ53746089	DZ53746090	-	Price
1-1/4	.028	98	-	-	DZ53746095	DZ53746096	Price
1-1/4	.032	98	-	-	DZ53746100	DZ53746101	Price
1-1/2	.008	140	-	-	DZ53746102	DZ53746103	Price
1-1/2	.010	140	-	-	DZ53746104	DZ53746105	Price
1-1/2	.012	140	-	-	DZ53746109	DZ53746110	Price
1-1/2	.014	110	-	-	DZ53746114	DZ53746115	Price
1-1/2	.016	110	-	-	DZ53746119	DZ53746120	Price
1-1/2	.018	110	-	-	DZ53746124	DZ53746125	Price
1-1/2	.020	110	-	-	DZ53746129	DZ53746130	Price
1-1/2	.023	110	-	-	-	DZ53746135	Price
1-1/2	.025	110	-	-	DZ53746139	DZ53746140	Price
1-1/2	.028	110	-	-	DZ53746144	DZ53746145	Price
1-1/2	.032	110	-	-	DZ53746149	DZ53746150	Price
1-3/4	.008	160	-	-	-	DZ53746153	Price
1-3/4	.010	160	-	-	DZ53746154	-	Price
1-3/4	.012	160	-	-	DZ53746159	DZ53746160	Price
1-3/4	.014	132	-	-	DZ53746164	DZ53746165	Price
1-3/4	.016	132	-	-	DZ53746169†	DZ53746170	Price
1-3/4	.018	132	-	-	DZ53746174	DZ53746175	Price
1-3/4	.020	132	-	-	DZ53746179	DZ53746180	Price
1-3/4	.023	132	-	-	-	DZ53746185	Price
1-3/4	.025	132	-	-	DZ53746189	DZ53746190	Price
1-3/4	.032	132	-	-	DZ53746199	DZ53746200	Price
2	.008	190	-	-	DZ53746202	DZ53746203	Price
2	.010	190	-	-	DZ53746204	DZ53746205	Price
2	.012	190	-	-	DZ53746209	DZ53746210	Price
2	.014	152	-	-	DZ53746214	DZ53746215	Price
2	.016	152	-	-	DZ53746219	DZ53746220	Price
2	.018	152	-	-	DZ53746224	DZ53746225	Price
2	.020	152	-	-	DZ53746229	DZ53746230	Price
2	.025	152	-	-	DZ53746239	DZ53746240	Price
2	.028	152	-	-	DZ53746244	DZ53746245	Price
2	.032	110	-	-	DZ53746249	DZ53746250	Price
2	.035	110	-	-	DZ53746254	DZ53746255	Price
2	.036	110	-	-	-	DZ53746258	Price
2	.040	110	-	-	DZ53746259	DZ53746260	Price
2	.045	110	-	-	-	DZ53746265	Price
2	.051	110	-	-	DZ53746269	DZ53746270	Price
2	.057	110	-	-	DZ53746274	DZ53746275	Price
2-1/4	.010	210	-	-	-	DZ53746277	Price
2-1/2	.010	240	-	-	-	DZ53746280	Price
2-1/2	.012	240	-	-	-	DZ53746285	Price
2-1/2	.014	190	-	-	-	DZ53746290	Price

			1/2" Hole	3/4" Hole	1" Hole	
Dia. (in.)	Thick-ness	No. of Teeth	Order No.	Order No.	Order No.	Price
2-1/2	.016	190	DZ53746295	-	-	Price
2-1/2	.018	190	DZ53746300	-	-	Price
2-1/2	.020	190	DZ53746305	-	-	Price
2-1/2	.023	190	DZ53746310	-	-	Price
2-1/2	.028	190	DZ53746320	-	-	Price
2-1/2	.035	140	DZ53746330	-	-	Price
2-1/2	.045	140	DZ53746340	-	-	Price
2-1/2	.051	140	DZ53746345	-	-	Price
2-1/2	.057	140	DZ53746350	-	-	Price
3	.010	280	DZ53746355	DZ53746430	DZ53746505	Price
3	.012	280	DZ53746360	-	DZ53746510	Price
3	.014	230	DZ53746365	DZ53746440†	DZ53746515	Price
3	.016	230	DZ53746370	DZ53746445†	DZ53746520	Price
3	.018	230	DZ53746375	DZ53746450†	DZ53746525	Price
3	.020	230	DZ53746380	-	DZ53746530	Price
3	.023	230	-	DZ53746460†	DZ53746535	Price
3	.025	230	DZ53746390	-	DZ53746540	Price
3	.028	230	DZ53746395	DZ53746470	DZ53746545	Price
3	.032	168	DZ53746400	DZ53746475	DZ53746550	Price
3	.035	168	DZ53746405	DZ53746480	DZ53746555	Price
3	.040	168	DZ53746410	DZ53746485	DZ53746560	Price
3	.045	168	DZ53746415	DZ53746490†	DZ53746565	Price
3	.051	168	DZ53746420	DZ53746495	DZ53746570	Price
3	.057	168	DZ53746425	-	DZ53746575	Price
4	.016	310	DZ53746580	-	-	Price
4	.018	310	DZ53746585	DZ53746650†	DZ53746715	Price
4	.020	310	DZ53746590	-	DZ53746720	Price
4	.023	310	DZ53746595	DZ53746660†	DZ53746725	Price
4	.025	310	DZ53746600	-	DZ53746730	Price
4	.028	310	DZ53746605	-	DZ53746735	Price
4	.032	220	DZ53746610	DZ53746675	DZ53746740	Price
4	.035	220	DZ53746615	-	DZ53746745	Price
4	.040	220	DZ53746620	DZ53746685	DZ53746750	Price
4	.045	220	-	DZ53746690	DZ53746755	Price
4	.051	220	DZ53746630	DZ53746695	DZ53746760	Price
4	.057	220	DZ53746635	DZ53746700	DZ53746765	Price
4	.064	220	DZ53746640	DZ53746705	DZ53746770	Price
5	.025	280	DZ53746785	-	-	Price
5	.028	280	DZ53746790	-	DZ53746845	Price
5	.032	280	DZ53746795	-	DZ53746850	Price
5	.035	280	DZ53746800	-	DZ53746855	Price
5	.040	280	DZ53746805	-	DZ53746860	Price
5	.045	280	DZ53746810	-	DZ53746865	Price
5	.051	280	DZ53746815	-	DZ53746870	Price
5	.057	280	DZ53746820	-	DZ53746875	Price
5	.064	280	DZ53746825	-	DZ53746880	Price
6	.040	340	DZ53746895	-	-	Price
6	.045	340	DZ53746900	-	DZ53746935	Price
6	.051	232	DZ53746905	-	DZ53746940	Price
6	.057	232	DZ53746910†	-	DZ53746945	Price
6	.064	232	DZ53746915	-	DZ53746950	Price
6	.072	232	DZ53746952†	-	DZ53746953	Price
6	.081	232	DZ53746955†	-	DZ53746956	Price
6	.091	232	DZ53746958†	-	DZ53746959	Price
6	.102	232	DZ53746961†	-	DZ53746962	Price
6	.114	232	-	-	DZ53746965	Price
6	.128	232	-	-	DZ53746968	Price

†Items may have lower prices

Staggered Tooth Side Chip Slitting Saws

High Speed Steel

- Excellent for deep slotting
- Free cutting
- Recommended where chip packing is a problem
- Keo Milling “MS” Style



			Keo Milling			ProCut		
Dia.	Thick-ness	Hole Size	No. of Teeth	Order No.	Price	No. of Teeth	Order No.	Price
3	1/16	1	36	**KE1009270**	Price	-	-	-
3	3/32	1	28	**KE1007500**	Price	-	-	-
3	1/8	1	28	**KE1007510**	Price	32	**DX503081**	Price
3	5/32	1	28	**KE1007520**	Price	32	**DX503101**	Price
3	3/16	1	28	**KE1007530**	Price	32	**DX503121**	Price
3	7/32	1	28	**KE1007540**	Price	-	-	-
3	1/4	1	28	**KE1007550**	Price	32	**DX503161**	Price
4	3/32	1	32	**KE1007560**	Price	-	-	-
4	3/32	1-1/4	32	**KE1007570**	Price	-	-	-
4	1/8	1	32	**KE1007580**	Price	34	**DX504081**	Price
4	1/8	1-1/4	32	**KE1007590**	Price	34	**DX504082**	Price
4	5/32	1	32	**KE1007600**	Price	34	**DX504101**	Price
4	5/32	1-1/4	32	**KE1007610**	Price	34	**DX504102**	Price
4	3/16	1	32	**KE1007620**	Price	34	**DX504121**	Price
4	3/16	1-1/4	32	**KE1007630**	Price	-	-	-
4	1/4	1	32	**KE1007660**	Price	34	**DX504161**	Price
4	1/4	1-1/4	32	**KE1007670**	Price	34	**DX504162**	Price
5	3/32	1	36	**KE1007680**	Price	-	-	-
5	3/32	1-1/4	36	**KE1007690**	Price	-	-	-
5	1/8	1	36	**KE1007700**	Price	-	-	-
5	1/8	1-1/4	36	**KE1007710**	Price	38	**DX505082**	Price
5	5/32	1	36	**KE1007720**	Price	38	**DX505101**	Price
5	5/32	1-1/4	36	**KE1007730**	Price	-	-	-
5	3/16	1	36	**KE1007740**	Price	38	**DX505121**	Price
5	3/16	1-1/4	36	**KE1007750**	Price	38	**DX505122**	Price
5	1/4	1	36	**KE1007780**	Price	38	**DX505161**	Price
5	1/4	1-1/4	36	**KE1007790**	Price	-	-	-
6	1/8	1	-	-	-	42	**DX506081**	Price
6	1/8	1-1/4	-	-	-	42	**DX506082**	Price
6	5/32	1	40	**KE1007820**	Price	-	-	-
6	5/32	1-1/4	40	**KE1007830**	Price	42	**DX506102**	Price
6	3/16	1	40	**KE1007840**	Price	42	**DX506121**	Price
6	3/16	1-1/4	40	**KE1007850**	Price	42	**DX506122**	Price
6	1/4	1	40	**KE1007880**	Price	42	**DX506161**	Price
6	1/4	1-1/4	40	**KE1007890**	Price	42	**DX506162**	Price
6	3/8	1	40	**KE1007900**	Price	-	-	-
6	3/8	1-1/4	40	**KE1007910**	Price	-	-	-
8	3/16	1-1/4	48	**KE1008000**	Price	50	**DX508122**	Price
8	1/4	1-1/4	48	**KE1008040**	Price	50	**DX508162**	Price
8	3/8	1-1/4	48	**KE1008060**	Price	-	-	-
10	3/16	1-1/4	56	**KE1008080**	Price	50	**DX5010122**	Price
10	1/4	1-1/4	56	**KE1008120**	Price	50	**DX5010162**	Price
10	3/8	1-1/4	56	**KE1008140**	Price	-	-	-

Straight Tooth Side Chip Slitting Saws

High Speed Steel

- Excellent for slotting and plunging
- Fully ground surfaces
- Recommended for thin-walled parts
- Keo Milling “MT” Style



			Keo Milling			ProCut		
Dia.	Thick-ness	Hole Size	No. of Teeth	Order No.	Price	No. of Teeth	Order No.	Price
2	1/8	5/8	-	-	-	22	**DW501081**	Price
2	3/32	5/8	-	-	-	22	**DW501061**	Price
2	5/32	5/8	-	-	-	22	**DW501101**	Price
2-1/2	1/16	7/8	28	**KE1008300**	Price	28	**DW502041**	Price
2-1/2	3/32	7/8	28	**KE1008310**	Price	28	**DW502061**	Price
2-1/2	1/8	1	-	-	-	28	**DW502082**	Price
2-1/2	1/8	7/8	28	**KE1008320**	Price	28	**DW502081**	Price
3	1/16	1	32	**KE1008330**	Price	32	**DW503041**	Price
3	5/64	1	32	**KE1008336**	Price	32	**DW503051**	Price
3	3/32	1	32	**KE1008340**	Price	32	**DW503061**	Price
3	7/64	1	32	**KE1008346**	Price	-	-	-
3	1/8	1	32	**KE1008350**	Price	32	**DW503081**	Price
3	5/32	1	32	**KE1008360**	Price	32	**DW503101**	Price
3	3/16	1	32	**KE1008370**	Price	32	**DW503121**	Price
3	7/32	1	32	**KE1008380**	Price	-	-	-
3	1/4	1	32	**KE1008390**	Price	32	**DW503161**	Price
4	1/16	1	36	**KE1008400**	Price	36	**DW504041**	Price
4	5/64	1	36	**KE1008412**	Price	36	**DW504051**	Price
4	3/32	1	36	**KE1008420**	Price	36	**DW504061**	Price
4	3/32	1-1/4	-	-	-	36	**DW504062**	Price
4	7/64	1	36	**KE1008432**	Price	-	-	-
4	1/8	1	36	**KE1008440**	Price	36	**DW504081**	Price
4	1/8	1-1/4	-	-	-	36	**DW504082**	Price
4	5/32	1	36	**KE1008460**	Price	36	**DW504101**	Price
4	3/16	1	36	**KE1008480**	Price	36	**DW504121**	Price
4	3/16	1-1/4	-	-	-	36	**DW504122**	Price
4	7/32	1	36	**KE1008500**	Price	-	-	-
4	1/4	1	36	**KE1008520**	Price	36	**DW504161**	Price
5	1/16	1	40	**KE1008540**	Price	-	-	-
5	3/32	1	40	**KE1008560**	Price	40	**DW505061**	Price
5	1/8	1	40	**KE1008580**	Price	40	**DW505081**	Price
5	1/8	1-1/4	-	-	-	40	**DW505082**	Price
5	5/32	1	40	**KE1008600**	Price	40	**DW505101**	Price
5	5/32	1-1/4	-	-	-	40	**DW505102**	Price
5	3/16	1	40	**KE1008620**	Price	40	**DW505121**	Price
5	3/16	1-1/4	-	-	-	40	**DW505122**	Price
5	7/32	1	40	**KE1008640**	Price	-	-	-
5	1/4	1	40	**KE1008660**	Price	-	-	-
6	1/16	1	42	**KE1008680**	Price	42	**DW506041**	Price
6	1/16	1-1/4	42	**KE1008690**	Price	-	-	-
6	3/32	1	42	**KE1008700**	Price	42	**DW506061**	Price
6	3/32	1-1/4	42	**KE1008710**	Price	-	-	-
6	1/8	1	42	**KE1008720**	Price	42	**DW506081**	Price
6	1/8	1-1/4	42	**KE1008730**	Price	42	**DW506082**	Price
6	5/16	1	42	**KE1008220**	Price	-	-	-
6	5/32	1	42	**KE1008740**	Price	-	-	-
6	5/32	1-1/4	42	**KE1008750**	Price	-	-	-
6	3/16	1	42	**KE1008760**	Price	42	**DW506121**	Price
6	3/16	1-1/4	42	**KE1008770**	Price	42	**DW506122**	Price
6	1/4	1	42	**KE1008800**	Price	-	-	-
6	1/4	1-1/4	42	**KE1008810**	Price	-	-	-
6	5/16	1-1/4	42	**KE1008230**	Price	-	-	-
6	3/8	1	42	**KE1008820**	Price	-	-	-
6	3/8	1-1/4	42	**KE1008830**	Price	-	-	-
8	1/8	1	48	**KE1008880**	Price	-	-	-
8	1/8	1-1/4	48	**KE1008890**	Price	42	**DW508082**	Price
8	5/32	1-1/4	48	**KE1008910**	Price	-	-	-
8	3/16	1-1/4	48	**KE1008930**	Price	42	**DW508121**	Price
8	1/4	1-1/4	48	**KE1008970**	Price	48	**DW508161**	Price
8	3/8	1-1/4	48	**KE1008990**	Price	-	-	-

Slitting Saws - Concave

High Speed Steel

- Designed for slitting and cutoff operations
- OD Cutting only-no side teeth
- Fully ground surfaces
- Square cornered with side concavity
- Keo Milling “MC” Style



			Keo Milling			ProCut		
Dia.	Thickness	Hole Size	No. of Teeth	Order No.	Price	No. of Teeth	Order No.	Price
2-1/2	1/32	7/8	36	**KE1009200**	Price	28	**DV502021**	Price
2-1/2	3/64	7/8	36	**KE1009210**	Price	28	**DV502031**	Price
2-1/2	1/16	7/8	36	**KE1009220**	Price	28	**DV502041**	Price
2-1/2	1/16	1	-	**-**	-	28	**DV502042**	Price
2-1/2	3/32	7/8	36	**KE1009230**	Price	28	**DV502061**	Price
2-1/2	1/8	7/8	36	**KE1009240**	Price	28	**DV502081**	Price
3	1/32	1	36	**KE1009250**	Price	30	**DV503021**	Price
3	3/64	1	36	**KE1009260**	Price	30	**DV503031**	Price
3	1/16	1	-	**-**	-	30	**DV503041**	Price
3	5/64	1	-	**-**	-	30	**DV503051**	Price
3	3/32	1	36	**KE1009280**	Price	30	**DV503061**	Price
3	1/8	1	36	**KE1009290**	Price	30	**DV503081**	Price
3	5/32	1	36	**KE1009300**	Price	30	**DV503101**	Price
3	3/16	1	-	**-**	-	30	**DV503121**	Price
4	1/32	1	40	**KE1009310**	Price	36	**DV504021**	Price
4	1/32	1-1/4	40	**KE1009314**	Price	-	**-**	-
4	3/64	1	40	**KE1009320**	Price	36	**DV504031**	Price
4	3/64	1-1/4	40	**KE1009324**	Price	-	**-**	-
4	1/16	1	40	**KE1009330**	Price	36	**DV504041**	Price
4	1/16	1-1/4	40	**KE1009334**	Price	-	**-**	-
4	5/64	1	-	**-**	-	36	**DV504051**	Price
4	3/32	1	40	**KE1009340**	Price	36	**DV504061**	Price
4	3/32	1-1/4	40	**KE1009344**	Price	-	**-**	-
4	1/8	1	40	**KE1009350**	Price	36	**DV504081**	Price
4	1/8	1-1/4	40	**KE1009354**	Price	-	**-**	-
4	5/32	1	40	**KE1009360**	Price	36	**DV504101**	Price
4	5/32	1-1/4	40	**KE1009364**	Price	-	**-**	-
4	3/16	1	40	**KE1009370**	Price	36	**DV504121**	Price
4	3/16	1-1/4	40	**KE1009374**	Price	-	**-**	-
5	1/32	1	44	**KE1009376**	Price	-	**-**	-
5	1/32	1-1/4	44	**KE1009378**	Price	-	**-**	-
5	1/16	1	44	**KE1009380**	Price	40	**DV505041**	Price
5	1/16	1-1/4	44	**KE1009384**	Price	40	**DV505042**	Price
5	3/32	1	44	**KE1009390**	Price	40	**DV505061**	Price
5	3/32	1-1/4	44	**KE1009394**	Price	40	**DV505062**	Price
5	1/8	1	44	**KE1009400**	Price	40	**DV505081**	Price
5	1/8	1-1/4	44	**KE1009410**	Price	40	**DV505082**	Price
5	5/32	1	44	**KE1009412**	Price	40	**DV505101**	Price
5	5/32	1-1/4	44	**KE1009414**	Price	40	**DV505102**	Price
5	3/16	1	44	**KE1009416**	Price	40	**DV505121**	Price
5	3/16	1-1/4	44	**KE1009418**	Price	40	**DV505122**	Price
6	1/32	1	48	**KE1009436**	Price	-	**-**	-
6	1/32	1-1/4	48	**KE1009438**	Price	-	**-**	-
6	1/16	1	48	**KE1009420**	Price	42	**DV506041**	Price
6	1/16	1-1/4	48	**KE1009424**	Price	42	**DV506042**	Price
6	3/32	1	48	**KE1009430**	Price	42	**DV506061**	Price
6	3/32	1-1/4	48	**KE1009434**	Price	42	**DV506062**	Price
6	1/8	1	48	**KE1009440**	Price	42	**DV506081**	Price
6	1/8	1-1/4	48	**KE1009450**	Price	42	**DV506082**	Price
6	5/32	1	48	**KE1009452**	Price	42	**DV506101**	Price
6	5/32	1-1/4	48	**KE1009454**	Price	42	**DV506102**	Price
6	3/16	1	48	**KE1009458**	Price	42	**DV506121**	Price
6	3/16	1-1/4	48	**KE1009460**	Price	42	**-**	-
8	3/32	1-1/4	-	**-**	-	48	**DV508062**	Price
8	1/8	1	58	**KE1009470**	Price	48	**DV508081**	Price
8	1/8	1-1/4	58	**KE1009480**	Price	48	**DV508082**	Price
8	3/16	1	-	**-**	-	48	**DV508121**	Price
8	3/16	1-1/4	-	**-**	-	48	**DV508122**	Price
10	3/32	1-1/4	-	**-**	-	56	**DV5010062**	Price
10	1/8	1-1/4	-	**-**	-	56	**DV5010082**	Price
10	3/16	1-1/4	-	**-**	-	56	**DV5010122**	Price

Circular Saw Arbors

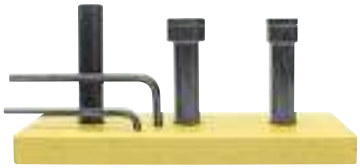
- For saw blades .001” to 3/16” thickness
- Steel, heat treated shank 1/2” diameter



Flange (in.)	Dia. Blade Hole (in.)	Order No.	Price
1/2	1/4	**GK60CSA1**	Price
5/8	3/8	**GK60CSA2**	Price
3/4	1/2	**GK60CSA3**	Price

3 Pc. Circular Saw Arbor Set

In Wooden Block
Contains 1 Each:
GK60-CSA-1, GK60-CSA-2, GK60-CSA-3



Order No.	Price
GK60CSA123	Price

Circular Saw Arbor

- .001 Square shank to cutter locating area
- Deep low profile caps allows closest cutter to work area
- Weldon shank



Hole Size (in.)	Shank Size (in.)	Model Number	Order No.	Price
1/4	1/2	SA-250	**GP25SA250**	Price
3/8	1/2	SA-375	**GP25SA375**	Price
1/2	1/2	SA-500	**GP25SA500**	Price
5/8	3/4	SA-625	**GP25SA625**	Price
1	3/4	SA-1000	**GP25SA1000**	Price
1-1/4	3/4	SA-1250	**GP25SA1250**	Price
1/4", 3/8", 1/2"	3/4	SA-3S-SET	**GP25SA3S**	Price
5/8", 1", 1-1/4"	1/2	SA-3L-SET	**GP25SA3L**	Price

Vari Arbors

- Accommodates saws and cutters having five standard hole sizes: 1/2”, 5/8”, 3/4”, 7/8” and 1”; with thicknesses up to 3/16” and diameters to 4”.
- Locked in telescopic centering assembly accepts standard cutters, various wheel brushes, etc.



Shank	Order No.	Price
1/2	**GK60VA12**	Price
R8	**GK60VAR8**	Price

duMont® Keyway Broaches

High Speed Steel
Supplied with shims



Size Broach (in.)	Broach Dim. (in.)	No. of Shims	Order No.	Price
1/16-A	1/8 x 5	0	**FB5022201**	Price
3/32-A	1/8 x 5	0	**FB5022202**	Price
3/32-B	3/16 x 6-3/4	0	**FB5022204**	Price
1/8-A	1/8 x 5	1	**FB5022203**	Price
1/8-B	3/16 x 6-3/4	1	**FB5022205**	Price
5/32-B	3/16 x 6-3/4	1	**FB5022206**	Price
3/16-B	3/16 x 6-3/4	1	**FB5022207**	Price
3/16-C	3/8 x 11-3/4	1	**FB5022208**	Price
1/4-C	3/8 x 11-3/4	1	**FB5022209**	Price
5/16-C	3/8 x 11-3/4	2	**FB5022210**	Price
5/16-D	9/16 x 13-7/8	2	**FB5022212**	Price
3/8-C	3/8 x 11-3/4	2	**FB5022211**	Price
3/8-D	9/16 x 13-7/8	2	**FB5022213**	Price
7/16-D	9/16 x 13-7/8	3	**FB5022214**	Price
1/2-D	9/16 x 13-7/8	3	**FB5022215**	Price
5/8-E	3/4 x 15-1/2	4	**FB5022216**	Price
3/4-E	3/4 x 15-1/2	5	**FB5022217**	Price
7/8-F	1 x 20-1/4	6	**FB5022218**	Price
1-F	1 x 20-1/4	7	**FB5022219**	Price

Special sizes and types available. All broaches available TiN coated.

duMont® Square Broaches



High Speed Steel

Square Size (in.)	Limits	Broach Length (in.)	Pilot Size†	Min. Length of Cut (in.)	Max. Length of Cut (in.)	Order No.	Price
1/8	.1255 - .1265	4-1/8	.1285	3/16	1/2	**FB5066601**	Price
5/32	.1565 - .1575	5-1/8	.1590	1/4	1/2	**FB5066602**	Price
3/16	.188 - .189	5-9/16	.1935	1/4	5/8	**FB5066603**	Price
7/32	.219 - .220	6-3/8	.2280	1/4	3/4	**FB5066604**	Price
1/4	.2505 - .2515	6-1/2	.2656	1/4	3/4	**FB5066605**	Price
9/32	.2815 - .2825	7-3/4	.2969	5/16	1	**FB5066606**	Price
5/16	.313 - .314	7-7/8	.3281	3/8	1	**FB5066607**	Price
11/32	.344 - .345	9-3/8	.3594	3/8	1-1/4	**FB5066608**	Price
3/8	.3755 - .3765	9-3/8	.3906	3/8	1-1/4	**FB5066609**	Price
13/32	.4065 - .4075	10-5/8	.4219	1/2	1-3/8	**FB5066610**	Price
7/16	.4380 - .4390	10-7/8	.4531	1/2	1-3/8	**FB5066611**	Price
15/32	.469 - .470	12	.5000	1/2	1-3/8	**FB5066612**	Price
1/2	.5005 - .5015	12	.5312	1/2	1-3/8	**FB5066613**	Price
9/16	.563 - .564	14-3/4	.5938	1/2	1-1/2	**FB5066614**	Price
5/8	.626 - .627	16-5/16	.6562	5/8	1-5/8	**FB5066615**	Price
11/16	.6885 - .6895	17-3/4	.7500	5/8	1-5/8	**FB5066616**	Price
3/4	.751 - .752	17-3/4	.8125	5/8	1-5/8	**FB5066617**	Price
7/8	.8765 - .8775	22-3/4	.9375	5/8	2	**FB5066618**	Price
1	1.002 - 1.003	24-1/8	1.0938	5/8	2	**FB5066619**	Price

†Tolerance - basic minus .0005-.001
Special sizes and types available. All broaches available TiN coated.

duMont® Metric Keyway Broaches

High Speed Steel
Supplied with shims



Broach	Keyway Width (mm)	Broach Dim. (in.)	No. of Shims	Order No.	Price
A	2	1/8 x 5	0	**FB5044401**	Price
A	3	1/8 x 5	1	**FB5044402**	Price
B-1	4	1/4 x 6-3/4	1	**FB5044403**	Price
B-1	5	1/4 x 6-3/4	1	**FB5044404**	Price
C	5	3/8 x 11-3/4	1	**FB5044405**	Price
C	6	3/8 x 11-3/4	1	**FB5044406**	Price
C	8	3/8 x 11-3/4	2	**FB5044407**	Price
D	10	9/16 x 13-7/8	2	**FB5044408**	Price
D	12	9/16 x 13-7/8	2	**FB5044409**	Price
D	14	9/16 x 13-7/8	2	**FB5044410**	Price
E	16	3/4 x 15-1/2	3	**FB5044411**	Price
E	18	3/4 x 15-1/2	3	**FB5044412**	Price
F	20	1 x 20-1/4	3	**FB5044413**	Price
F	22	1 x 20-1/4	4	**FB5044414**	Price
F	24	1 x 20-1/4	5	**FB5044415**	Price
F	25	1 x 20-1/4	4	**FB5044494**	Price

The duMONT Company LLC has been designing and manufacturing precision broaches since 1945. duMONT broaches are recognized all over the world for quality, durability, and engineering detail.

duMont® Hexagon Broaches

High Speed Steel



Hex Size (in.)	Limits	Broach Length (in.)	Pilot Size† (in.)	Min. Length of Cut (in.)	Max. Length of Cut (in.)	Order No.	Price
1/8	.1255 - .1265	4-1/8	1/8	3/16	3/8	**FB5077701**	Price
5/32	.1565 - .1575	4-15/16	5/32	1/4	1/2	**FB5077702**	Price
3/16	.188 - .189	5-1/16	3/16	1/4	5/8	**FB5077703**	Price
7/32	.219 - .220	5-3/8	7/32	1/4	3/4	**FB5077704**	Price
1/4	.2505 - .2515	6	1/4	1/4	3/4	**FB5077705**	Price
9/32	.2815 - .2825	7-1/4	9/32	5/16	1	**FB5077706**	Price
5/16	.313 - .314	7-3/4	5/16	3/8	1	**FB5077707**	Price
11/32	.344 - .345	7-3/4	11/32	3/8	1-1/4	**FB5077708**	Price
3/8	.3755 - .3765	8-1/2	3/8	3/8	1-1/4	**FB5077709**	Price
13/32	.4065 - .4075	9-5/8	13/32	1/2	1-3/8	**FB5077710**	Price
7/16	.4380 - .4390	10-1/2	7/16	1/2	1-3/8	**FB5077711**	Price
15/32	.469 - .470	11-7/8	15/32	1/2	1-3/8	**FB5077712**	Price
1/2	.5005 - .5015	11-7/8	1/2	1/2	1-3/8	**FB5077713**	Price
9/16	.563 - .564	13-3/4	9/16	1/2	1-5/8	**FB5077714**	Price
5/8	.626 - .627	16-1/4	5/8	5/8	2	**FB5077715**	Price
11/16	.6885 - .6895	16-3/4	11/16	5/8	2	**FB5077716**	Price
3/4	.751 - .752	17-1/4	3/4	5/8	2	**FB5077717**	Price
7/8	.8765 - .8775	18-1/2	7/8	5/8	2	**FB5077718**	Price
1	1.002 - 1.003	19-3/4	1.0000	5/8	2	**FB5077719**	Price

†Tolerance - basic minus .0005-.001
Special sizes and types available. All broaches available TiN coated.

duMont® Keyway Broach Sets



- Now you can make precision holes or keyways in seconds... a few at a time or production quantities... by a simple push-through broaching operation using a hand operated arbor press or hydraulic press
- All sets furnished in handsome varnished wood box come complete with precision broaches, slotted bushings, and necessary shims
- **Set No. 00** - the most common keyway combinations for small keyways and bores. 3 broaches & 5 bushings = 15 combinations

Keyway Sizes (in.)	Broach Style	Bushing Dimensions Bore Sizes - Collared Only (in.)	Order No.	Price
1/16, 3/32, 1/8	A	1/4, 5/16, 3/8, 7/16, 1/2	**FB5011101**	Price

No. 10 Standard Set

Our best selling broach set.

4 broaches & 9 bushings = 18 combinations

Keyway Sizes (in.)	Broach Style	Bushing Diameters Bore Sizes - Plain Only(in.)	Order No.	Price
1/8, 3/16, 1/4, 3/8	B, C	1/2, 5/8, 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2	**FB5011104**	Price

No. 10A Standard Set

Same as No. 10 Set, but for sixteenth-sized bores.

4 broaches & 9 bushings = 18 combinations

Keyway Sizes (in.)	Broach Style	Bushing Diameters Bore Sizes - Collared Only (in.)	Order No.	Price
1/8, 3/16, 1/4, 3/8	B, C	9/16, 11/16, 13/16, 15/16, 1-1/16, 1-3/16, 1-5/16, 1-7/16, 1-9/16	**FB5011108**	Price

No. 10-10A Combination Set

Combines 10 and 10A sets.

4 broaches & 18 bushings = 36 combinations

Keyway Sizes (in.)	Bushing Diameters Bore Sizes - Collared Only (in.)	Broach Style	Order No.	Price
1/8, 3/16, 1/4, 3/8	1/2, 5/8, 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2, 9/16, 11/16, 13/16, 15/16, 1-1/16, 1-3/16, 1-5/16, 1-7/16, 1-9/16	B, C	**FB5011120**	Price

No. 20 Combination Set

Same as No. 10-10A combination set, but adds a 5/16" keyway for 11 extra combinations.

5 broaches & 18 bushings = 47 combinations

Keyway Sizes (in.)	Broach Style	Bushing Diameters Bore Sizes - Collared Only (in.)	Order No.	Price
1/8, 3/16, 1/4, 5/16, 3/8	B, C	1/2, 5/8, 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2, 9/16, 11/16, 13/16, 15/16, 1-1/16, 1-3/16, 1-5/16, 1-7/16, 1-9/16	**FB5011121**	Price

No. 40A Set

The most common keyway combinations for medium-sized keyways and bores.

4 broaches & 8 bushings = 32 combinations

Keyway Sizes (in.)	Broach Style	Bushing Diameters Bore Sizes - Plain Only (in.)	Order No.	Price
5/16, 3/8, 7/16, 1/2	D	1-1/2, 1-5/8, 1-3/4, 1-7/8, 2, 2-1/8, 2-1/4, 2-1/2	**FB5011127**	Price

No. 40 Set

Same as No. 40A, but for sixteenth-sized bores.

4 broaches & 8 bushings = 32 combinations

Keyway Sizes (in.)	Broach Style	Bushing Diameters Bore Sizes - Plain Only (in.)	Order No.	Price
5/16, 3/8, 7/16, 1/2	D	1-7/16, 1-9/16, 1-11/16, 1-13/16, 1-15/16, 2-3/16, 2-7/16, 2-15/16	**FB5011129**	Price

No. 40-1/2A Heavy Duty Set

The most common keyway combinations for large keyways.

2 broaches & 6 bushings = 12 combinations

Keyway Sizes (in.)	Broach Style	Bushing Diameters Bore Sizes - Plain Only (in.)	Order No.	Price
5/8, 3/4	E	2-3/8, 2-1/2, 2-5/8, 2-3/4, 2-7/8, 3	**FB5011131**	Price

No. 40-1/2 Heavy Duty Set

Same as No. 40-1/2A, but for sixteenth-sized bores.

2 broaches & 6 bushings = 12 combinations

Keyway Sizes (in.)	Broach Style	Bushing Diameters Bore Sizes - Plain Only (in.)	Order No.	Price
5/8, 3/4	E	2-5/16, 2-7/16, 2-9/16, 2-11/16, 2-13/16, 2-15/16	**FB5011133**	Price

No. 50 Heavy Duty Set

Includes the most common keyway combinations for medium and large keyways.

3 broaches & 17 bushings = 29 combinations

Keyway Sizes (in.)	Broach Style	Bushing Diameters Bore Sizes - Plain Only (in.)	Order No.	Price
1/2, 5/8, 3/4	D, E	2, 2-1/16, 2-1/8, 2-3/16, 2-1/4, 2-5/16, 2-3/8, 2-7/16, 2-1/2, 2-9/16, 2-5/8, 2-11/16, 2-3/4, 2-13/16, 2-7/8, 2-15/16, 3	**FB5011135**	Price

No. 100 Heavy Duty Combination Set

Includes all popular combinations without duplication. Furnished in three handsome varnished wood boxes for convenient handling and storage; with broaches, slotted bushings, and shims.

9 broaches & 44 bushings = 102 combinations

Collared bushings for B & C style broaches

Plain bushings for D & E style broaches

Keyway Sizes (in.)	Broach Style	Bushing Diameters Bore Sizes	Order No.	Price
1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4	B,C,D,E	1/2-7/8 by 16ths Style B, 15/16-1-9/16 by 16ths Style C, 1-7/16-2-1/4 by 16ths Style D, 2-5/16-3" by 16ths Style E	**FB5011136**	Price

duMont® Keyway Broach Sets

No. 60 Metric Set

The most common metric keyway combinations for small keyways and bores.

2 broaches & 3 bushings = 6 combinations

Keyway Sizes (mm)	Broach Style	Bushing Diameters Bore Sizes - Collared Only (mm)	Order No.	Price
2mm, 3mm	A	6, 8, 10	**FB5044497**	Price

No. 70 Metric Set

Our most popular metric broach set.

4 broaches & 13 bushings = 26 combinations

Keyway Sizes (mm)	Broach Style	Bushing Diameters Bore Sizes - Collared Only (mm)	Order No.	Price
4mm, 5mm, 6mm, 8mm	B, C	12, 14, 15, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30	**FB5044498**	Price

No. 80 Metric Set

The most common metric keyway combinations for medium-sized keyways and bores.

3 broaches & 12 bushings = 36 combinations

Keyway Sizes (mm)	Broach Style	Bushing Diameters Bore Sizes - Collared Only (mm)	Order No.	Price
10mm, 12mm, 14mm	D	32, 34, 35, 36, 38, 40, 42, 44, 45, 46, 48, 50	**FB5044499**	Price

No. 90 Metric Set

The most common metric keyway combination for large keyways and bores.

2 broaches & 8 bushings = 16 combinations

Keyway Sizes (mm)	Broach Style	Bushing Diameters Bore Sizes - Plain Only (mm)	Order No.	Price
16mm, 18mm	E	52, 54, 55, 56, 58, 60, 62, 65	**FB5044500**	Price

HASSAY-SAVAGE
Internal Hex Rotary/Punch Broaches

Also Referred To As "Wobble," "Blind Hole" & Rotary Broaches



- For use with screw machines, CNC turning machines and arbor presses
- For use in automotive, aerospace, medical and other various fields
- Other sizes, metric, square, Torx© octagon & spline forms available, please call
- All tools are manufactured in M-2 high speed steel

Shank Size (in.) - 1/2" - .500 - American				
Hex Size (in./mm)	Depth of Cut (in.)	OAL (in.)	Order No.	Price
3/32	9/64	1 3/4	**FB5566106**	Price
7/64	5/32	1 3/4	**FB5566107**	Price
1/8	3/16	1 3/4	**FB5566108**	Price
9/64	7/32	1 3/4	**FB5566109**	Price
5/32	1/4	1 3/4	**FB5566110**	Price
3/16	9/32	1 3/4	**FB5566112**	Price
7/32	9/32	1 3/4	**FB5566114**	Price
1/4	3/8	1 3/4	**FB5566116**	Price
9/32	7/16	1 3/4	**FB5566118**	Price
5/16	1/2	1 3/4	**FB5566120**	Price
11/32	9/16	1 3/4	**FB5566122**	Price
3/8	9/16	1 3/4	**FB5566124**	Price
7/16	5/8	1 3/4	**FB5566128**	Price
1/2	5/8	1 3/4	**FB5566132**	Price
9/16	5/8	1 3/4	**FB5566136**	Price
5/8	3/4	1 3/4	**FB5566140**	Price
11/16	3/4	1 3/4	**FB5566144**	Price
3/4	7/8	1 3/4	**FB5566148**	Price

Shank Size (in.) - 1/2" - .500 - Metric				
Hex Size (in./mm)	Depth of Cut (in.)	OAL (in.)	Order No.	Price
2mm	5/32	1-1/2	**FB5566302**	Price
2.5mm	5/32	1-1/2	**FB55663025**	Price
3mm	3/16	1-1/2	**FB5566303**	Price
4mm	1/4	1-1/2	**FB5566304**	Price
5mm	5/16	1-1/2	**FB5566305**	Price
6mm	3/8	1-1/2	**FB5566306**	Price
7mm	1/2	1-1/2	**FB5566307**	Price
8mm	1/2	1-1/2	**FB5566308**	Price
10mm	9/16	1-1/2	**FB5566310**	Price
11mm	9/16	2	**FB5566311**	Price
12mm	5/8	2	**FB5566312**	Price

HASSAY-SAVAGE
Square Rotary/Punch Broaches



Shank Size (in.) - 1/2" - .500 - American				
Square Size (in.)	Depth of Cut (in.)	OAL (in.)	Order No.	Price
3/32	9/64	1-1/2	**FB5568106**	Price
1/8	3/16	1-1/2	**FB5568108**	Price
5/32	1/4	1-1/2	**FB5568110**	Price
3/16	9/32	1-1/2	**FB5568112**	Price
7/32	11/32	1-1/2	**FB5568114**	Price
1/4	3/8	1-1/2	**FB5568116**	Price
5/16	1/2	1-1/2	**FB5568120**	Price
3/8	5/8	2	**FB5568124**	Price
7/16	5/8	2	**FB5568128**	Price
1/2	5/8	2	**FB5568132**	Price
9/16	3/4	2	**FB5568136**	Price
5/8	7/8	2	**FB5568140**	Price

Shank Size (in.) - 8mm - .315 - American				
Square Size (in.)	Depth of Cut (in.)	OAL (in.)	Order No.	Price
1/16	1/8	1-1/4	**FB5568004**	Price
3/32	9/64	1-1/4	**FB5568006**	Price
1/8	3/16	1-1/4	**FB5568008**	Price
5/32	1/4	1-1/4	**FB5568010**	Price
3/16	9/32	1-1/4	**FB5568012**	Price
7/32	11/32	1-1/4	**FB5568014**	Price
1/4	3/8	1-1/2	**FB5568016**	Price
9/32	3/8	1-1/2	**FB5568018**	Price
5/16	3/8	1-1/2	**FB5568020**	Price
11/32	3/8	1-1/2	**FB5568022**	Price
3/8	3/8	1-1/2	**FB5568024**	Price

Shank Size (in.) - 1/2" - .500 - Metric				
Hex Size (in./mm)	Depth of Cut (in.)	OAL (in.)	Order No.	Price
14mm	5/8	2	**FB5566314**	Price
16mm	5/8	2	**FB5566316**	Price
18mm	7/8	2	**FB5566318**	Price

Shank Size (in.) - 3/4" - .750 - American				
Hex Size (in./mm)	Depth of Cut (in.)	OAL (in.)	Order No.	Price
3/8	1/2	2 1/2	**FB5566524**	Price
7/16	1/2	2 1/2	**FB5566528**	Price
1/2	5/8	2 1/2	**FB5566532**	Price
9/16	3/4	2 1/2	**FB5566536**	Price
5/8	3/4	2 1/2	**FB5566540**	Price
3/4	7/8	2 3/4	**FB5566548**	Price
7/8	7/8	2 3/4	**FB5566556**	Price
1	7/8	2 3/4	**FB5566564**	Price

Shank Size (in.) - 8mm - .315 - American				
Hex Size (in./mm)	Depth of Cut (in.)	OAL (in.)	Order No.	Price
.050	5/64	1 1/4	**FB5566002**	Price
1/16	3/32	1 1/4	**FB5566004**	Price
5/64	7/64	1 1/4	**FB5566005**	Price
3/32	9/64	1 1/4	**FB5566006**	Price
7/64	5/32	1 1/4	**FB5566007**	Price
1/8	3/16	1 1/4	**FB5566008**	Price
9/64	7/32	1 1/4	**FB5566009**	Price
5/32	1/4	1 1/4	**FB5566010**	Price
3/16	9/32	1 1/4	**FB5566012**	Price
7/32	1 1/32	1 1/4	**FB5566014**	Price
1/4	3/8	1 1/4	**FB5566016**	Price
9/32	3/8	1 1/4	**FB5566018**	Price
5/16	3/8	1 1/4	**FB5566020**	Price
11/32	7/16	1 1/4	**FB5566022**	Price
3/8	1/2	1 1/4	**FB5566024**	Price
7/16	1/2	1 1/4	**FB5566028**	Price

Shank Size (in.) - 8mm - .315 - Metric				
Hex Size (in./mm)	Depth of Cut (in.)	OAL (in.)	Order No.	Price
1.3mm	3/32	1-1/4	**FB55662013**	Price
1.5mm	3/32	1-1/4	**FB55662015**	Price
2mm	7/64	1-1/4	**FB5566202**	Price
2.5mm	5/32	1-1/4	**FB55662025**	Price
3mm	3/16	1-1/4	**FB5566203**	Price
4mm	1/4	1-1/4	**FB5566204**	Price
5mm	5/16	1-1/4	**FB5566205**	Price
6mm	3/8	1-1/4	**FB5566206**	Price
7mm	3/8	1-1/2	**FB5566207**	Price
8mm	3/8	1-1/2	**FB5566208**	Price
9mm	3/8	1-1/2	**FB5566209**	Price
10mm	1/2	1-1/2	**FB5566210**	Price
11mm	1/2	1-1/2	**FB5566211**	Price
12mm	1/2	1-1/2	**FB5566212**	Price

HASSAY-SAVAGE
Rotary Broach Holders



Accepts Internal Hex Rotary/ Punch Broaches

Applications: For use on any type of CNC or manual turning, milling, drilling or screw machine.

Features:

- The holder has an internal live spindle, which holds the end cutting broach tool
- The centerline of the cutting tool is offset at 1° from the centerline of the workpiece
- This offset causes the broach to wobble creating a shearing effect as the broach is advanced into the workpiece or vice versa.

Holds - Holds 1/2"					
Shank Dia. (in.)	Shank Lgth. (in.)	Broach Shank Depth (in.)	OAL (in.)	Order No.	Price
1	2	.742	4-17/32	**FB55P67064**	Price
3/4	2	.742	4-17/32	**FB55P67048**	Price

Holds - Holds 3/4"					
Shank Dia. (in.)	Shank Lgth. (in.)	Broach Shank Depth (in.)	OAL (in.)	Order No.	Price
1-1/2	3	1-1/4	7-9/16	**FB55P67072HDS**	Price
1-3/4	3	1-1/4	7-9/16	**FB55P67076HD**	Price

Holds - Holds .315"					
Shank Dia. (in.)	Shank Lgth. (in.)	Broach Shank Depth (in.)	OAL (in.)	Order No.	Price
3/4	2	9/16	3-59/64	**FB55P67048S**	Price
5/8	1-1/2	9/16	3-27/64	**FB55P67040**	Price

Cylinder Shape with Radius End Burrs

- Double Cut - Rapid stock removal in tough applications. Design reduces the pulling action, reduces the size of chips, ensures rapid stock removal
- Single Cut - General Purpose. Recommended for steel, cast iron, ferrous materials. Offers good stock removal and smooth workpiece finish





RAPIDKUT®

M.A. FORD

			Rapidkut				M A Ford			
			Single		Double		Price		Double	
Burr No.	Size (in.)	Shank Size (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
SC41	3/32 x 7/16	1/8	FP50SC41	Price	FP50SC41D	Price	FP6069040020	Price	FP6069040027	Price
SC11	1/8 x 1/2	1/4	FP50SC11	Price	FP50SC11D	Price	FP6042125020	Price	FP6042125027	Price
SC42	1/8 x 9/16	1/8	FP50SC42	Price	FP50SC42D	Price	FP6069030020	Price	FP6069030027	Price
SC42L2†	1/8 x 9/16	1/8	FP50SC42L2	Price	FP50SC42L2D	Price	-	-	-	-
SC42L3†	1/8 x 9/16	1/8	FP50SC42L3	Price	FP50SC42L3D	Price	FP6069030020L3	Price	FP6069030027L3	Price
SC12	1/8 x 5/8	1/4	FP50SC12	Price	FP50SC12D	Price	-	-	-	-
SC52	5/32 x 1/2	1/8	-	-	FP50SC52D	Price	FP6072020020	Price	FP6072020027	Price
SC13	5/32 x 5/8	1/4	-	-	-	-	FP6042156220	Price	FP6042156227	Price
SC53	3/16 x 1/2	1/8	FP50SC53	Price	FP50SC53D	Price	FP6072040020	Price	FP6072040027	Price
SC81	3/16 x 5-8	3/16	-	-	-	-	FP6074020020	Price	FP6074020027	Price
SC14	3/16 x 5/8	1/4	-	-	FP50SC14D	Price	FP6042187520	Price	FP6042187527	Price
SC1	1/4 x 5/8	1/4	FP50SC1	Price	FP50SC1D	Price	FP6042250020	Price	FP6042250027	Price
SC1L6†	1/4 x 5/8	1/4	FP50SC1L6	Price	FP50SC1L6D	Price	FP6042250020L6	Price	FP6042250027L6	Price
SC51	1/4 x 1/2	1/8	FP50SC51	Price	FP50SC51D	Price	FP6070020020	Price	FP6070020027	Price
SC1L	1/4 x 1	1/4	FP50SC1L	Price	FP50SC1LD	Price	-	-	-	-
SC2	5/16 x 3/4	1/4	FP50SC2	Price	FP50SC2D	Price	FP6042312520	Price	FP6042312527	Price
SC3	3/8 x 3/4	1/4	FP50SC3	Price	FP50SC3D	Price	FP6042375020	Price	FP6042375027	Price
SC3L6†	3/8 x 3/4	1/4	FP50SC3L6	Price	FP50SC3L6D	Price	FP6042375020L6	Price	FP6042375027L6	Price
SC3L	3/8 x 1	1/4	FP50SC3L	Price	FP50SC3LD	Price	-	-	-	-
SC3X	3/8 x 1-1/2	1/4	-	-	FP50SC3XD	Price	-	-	-	-
SC4	7/16 x 1	1/4	-	-	FP50SC4D	Price	FP6042437520	Price	FP6042437527	Price
SC5	1/2 x 1	1/4	FP50SC5	Price	FP50SC5D	Price	FP6042500020	Price	FP6042500027	Price
SC5L6†	1/2 x 1	1/4	FP50SC5L6	Price	FP50SC5L6D	Price	FP6042500020L6	Price	FP6042500027L6	Price
SC6	5/8 x 1	1/4	FP50SC6	Price	FP50SC6D	Price	FP6042625020	Price	FP6042625027	Price
SC16	3/4 x 3/4	1/4	FP50SC16	Price	FP50SC16D	Price	-	-	-	-
SC7	3/4 x 1	1/4	FP50SC7	Price	FP50SC7D	Price	FP6042750020	Price	FP6042750027	Price
SC9	1 x 1	1/4	FP50SC9	Price	FP50SC9D	Price	FP6042100020	Price	FP6042100027	Price

† Extra Length: L2 = 2" OAL, L3 = 3" OAL, L6 = 6" Shank Length

Taper with Radius End Burrs

- Double Cut - Rapid stock removal in tough applications. Design reduces the pulling action, reduces the size of chips, ensures rapid stock removal
- Single Cut - General Purpose. Recommended for steel, cast iron, ferrous materials. Offers good stock removal and smooth workpiece finish





RAPIDKUT®

M.A. FORD

				Rapidkut				M A Ford			
				Single		Double		Single		Price	
Burr No.	Size (in.)	Shank Size (in.)	Included Angle	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
SL41	1/8 x 3/8	1/8	8°	FP50SL41	Price	FP50SL41D	Price	FP6069145020	Price	FP6069145027	Price
SL42	1/8 x 1/2	1/8	8°	FP50SL42	Price	FP50SL42D	Price	FP6069150020	Price	FP6069150027	Price
SL42L2†	1/8 x 1/2	1/8	8°	FP50SL42L2	Price	FP50SL42LD	Price	-	-	-	-
SL42L3†	1/8 x 1/2	1/8	8°	-	-	-	-	FP6069150020L3	Price	FP6069150027L3	Price
SL81	3/16 x 1/2	3/16	14°	-	-	-	-	FP6074100020	Price	FP6074100027	Price
SL53	3/16 x 1/2	1/8	14°	-	-	FP50SL53D	Price	FP6072120020	Price	FP6072120027	Price
SL1	1/4 x 5/8	1/4	14°	FP50SL1	Price	FP50SL1D	Price	FP6048250020	Price	FP6048250027	Price
SL1L6†	1/4 x 5/8	1/4	14°	FP50SL1L6	Price	FP50SL1L6D	Price	-	-	-	-
SL2	5/16 x 15/16	1/4	14°	FP50SL2	Price	FP50SL2D	Price	FP6048312520	Price	FP6048312527	Price
SL3	3/8 x 1-1/8	1/4	14°	FP50SL3	Price	FP50SL3D	Price	FP6048375020	Price	FP6048375027	Price
SL3L6†	3/8 x 1-1/8	1/4	14°	FP50SL3L6	Price	FP50SL3L6D	Price	FP6048375020L6	Price	FP6048375027L6	Price
SL4	1/2 x 1-3/16	1/4	14°	FP50SL4	Price	FP50SL4D	Price	FP6048500020	Price	FP6048500027	Price
SL4L6†	1/2 x 1-3/16	1/4	14°	FP50SL4L6	Price	FP50SL4L6D	Price	FP6048500020L6	Price	FP6048500027L6	Price
SL5	5/8 x 1-3/16	1/4	14°	FP50SL5	Price	FP50SL5D	Price	-	-	-	-
SL6	5/8 x 1-5/16	1/4	14°	FP50SL6	Price	-	-	FP6048625020	Price	FP6048625027	Price
SL7	3/4 x 1-9/16	1/4	14°	FP50SL7	Price	FP50SL7D	Price	FP6048750020	Price	FP6048750027	Price

† Extra Length: L2 = 2" OAL, L3 = 3" OAL, L6 = 6" Shank Length

Cylinder Shape Burrs

- Double Cut - Rapid stock removal in tough applications. Design reduces the pulling action, reduces the size of chips, ensures rapid stock removal
- Single Cut - General Purpose. Recommended for steel, cast iron, ferrous materials. Offers good stock removal and smooth workpiece finish



RAPIDKUT

			Rapidkut				M A Ford			
			Single		Double		Price		Double	
Burr No.	Size (in.)	Shank Size (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
SA41	1/16 x 1/4	1/8	FP50SA41	Price	-	-	FP6069000020	Price	FP6069000027	Price
SA41L3†	1/16 x 1/4	1/8	FP50SA41L3	Price	-	-	-	-	-	-
SA42	3/32 x 7/16	1/8	FP50SA42	Price	FP50SA42D	Price	FP6069020020	Price	FP6069020027	Price
SA42L2†	3/32 x 7/16	1/8	-	-	FP50SA42L2D	Price	-	-	-	-
SA42L3	3/32 x 7/16	1/8	-	-	FP50SA42L3	Price	-	-	-	-
SA11	1/8 x 1/2	1/4	FP50SA11	Price	FP50SA11D	Price	FP6041125020	Price	FP6041125027	Price
SA43	1/8 x 9/16	1/8	FP50SA43	Price	FP50SA43D	Price	FP6069010020	Price	FP6069010027	Price
SA43L3†	1/8 x 9/16	1/8	FP50SA43L3S	Price	FP50SA43L3	Price	FP6069010020L3	Price	FP6069010027L3	Price
SA12	1/8 x 5/8	1/4	-	-	FP50SA12D	Price	-	-	-	-
SA52	5/32 x 1/2	1/8	-	-	-	-	FP6072010020	Price	FP6072010027	Price
SA13	5/32 x 5/8	1/4	-	-	FP50SA13D	Price	FP6041156220	Price	FP6041156227	Price
SA53	3/16 x 1/2	1/8	-	-	FP50SA53D	Price	FP6072030020	Price	FP6072030027	Price
SA81	3/16 x 1/2	3/16	-	-	-	-	FP6074010020	Price	FP6074010027	Price
SA14	3/16 x 5/8	1/4	-	-	FP50SA14D	Price	FP6041187520	Price	FP6041187527	Price
SA51	1/4 x 1/2	1/8	FP50SA51	Price	FP50SA51D	Price	FP6070010020	Price	FP6070010027	Price
SA1L6†	1/4 x 1/2	1/4	FP50SA1L6	Price	FP50SA1L6D	Price	-	-	-	-
SA1	1/4 x 5/8	1/4	FP50SA1	Price	FP50SA1D	Price	FP6041250020	Price	FP6041250027	Price
SA1L	1/4 x 1	1/4	FP50SA1L	Price	FP50SA1LD	Price	-	-	-	-
SA2	5/16 x 3/4	1/4	FP50SA2	Price	FP50SA2D	Price	FP6041312520	Price	FP6041312527	Price
SA3	3/8 x 3/4	1/4	FP50SA3	Price	FP50SA3D	Price	FP6041375020	Price	FP6041375027	Price
SA3L6†	3/8 x 3/4	1/4	FP50SA3L6	Price	FP50SA3L6D	Price	-	-	-	-
SA3L	3/8 x 1	1/4	FP50SA3L	Price	FP50SA3LD	Price	-	-	-	-
SA3X	3/8 x 1-1/2	1/4	-	-	FP50SA3XD	Price	-	-	-	-
SA4	7/16 x 1	1/4	FP50SA4	Price	FP50SA4D	Price	FP6041437520	Price	FP6041437527	Price
SA5	1/2 x 1	1/4	FP50SA5	Price	FP50SA5D	Price	FP6041500020	Price	FP6041500027	Price
SA5L6†	1/2 x 1	1/4	FP50SA5L6	Price	FP50SA5L6D	Price	-	-	-	-
SA6	5/8 x 1	1/4	FP50SA6	Price	FP50SA6D	Price	FP6041625020	Price	FP6041625027	Price
SA15	3/4 x 1/2	1/4	-	-	-	-	FP6041750120	Price	FP6041750127	Price
SA7	3/4 x 1	1/4	-	-	FP50SA7D	Price	FP6041750020	Price	FP6041750027	Price
SA16	3/4 x 3/4	1/4	FP50SA16	Price	FP50SA16D	Price	FP6041750220	Price	FP6041750227	Price
SA9	1 x 1	1/4	FP50SA9	Price	FP50SA9D	Price	FP6041100020	Price	FP6041100027	Price

† Extra Length: L2 = 2" OAL, L3 = 3" OAL, L6 = 6" OAL

Cylinder Shape with End Cut Burrs

- Double Cut - Rapid stock removal in tough applications. Design reduces the pulling action, reduces the size of chips, ensures rapid stock removal
- Single Cut - General Purpose. Recommended for steel, cast iron, ferrous materials. Offers good stock removal and smooth workpiece finish



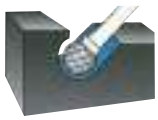
RAPIDKUT

			Rapidkut				M A Ford			
			Single		Double		Price		Double	
Burr No.	Size (in.)	Shank Size (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
SB41	1/16 x 1/4	1/8	-	-	-	-	FP6069000020E	Price	FP6069000027E	Price
SB42	3/32 x 7/16	1/8	-	-	FP50SB42D	Price	FP6069020020E	Price	FP6069020027E	Price
SB42L3†	3/32 x 7/16	1/8	-	-	FP50SB42L3D	Price	-	-	-	-
SB43	3/32 x 9/16	1/8	FP50SB43	Price	FP50SB43D	Price	-	-	-	-
SB11	1/8 x 1/2	1/4	FP50SB11	Price	FP50SB11D	Price	FP6041125020E	Price	FP6041125027E	Price
SB43	1/8 x 9/16	1/8	-	-	-	-	FP6069010020E	Price	FP6069010027E	Price
SB43L2†	1/8 x 9/16	1/8	-	-	FP50SB43L2D	Price	-	-	-	-
SB43L3†	1/8 x 9/16	1/8	FP50SB43L3	Price	FP50SB43L3D	Price	-	-	FP6069010027L3E	Price
SB12	1/8 x 5/8	1/4	-	-	FP50SB12D	Price	-	-	-	-
SB13	5/32 x 5/8	1/4	-	-	FP50SB13D	Price	FP6041156220E	Price	FP6041156227E	Price
SB14	3/16 x 5/8	1/4	-	-	FP50SB14D	Price	FP6041187520E	Price	FP6041187527E	Price
SB51	1/4 x 3/16	1/8	-	-	FP50SB51D	Price	FP6070000020E	Price	FP6070000027E	Price
SB1	1/4 x 5/8	1/4	FP50SB1	Price	FP50SB1D	Price	FP6041250020E	Price	FP6041250027E	Price
SB1L	1/4 x 1	1/4	FP50SB1L	Price	FP50SB1LD	Price	-	-	-	-
SB2	5/16 x 3/4	1/4	FP50SB2	Price	FP50SB2D	Price	FP6041312520E	Price	FP6041312527E	Price
SB3	3/8 x 3/4	1/4	FP50SB3	Price	FP50SB3D	Price	FP6041375020E	Price	FP6041375027E	Price
SB3L	3/8 x 1	1/4	FP50SB3L	Price	FP50SB3LD	Price	-	-	-	-
SB3X	3/8 x 1-1/2	1/4	-	-	FP50SB3XD	Price	-	-	-	-
SB4	7/16 x 1	1/4	FP50SB4	Price	FP50SB4D	Price	FP6041437520E	Price	FP6041437527E	Price
SB5	1/2 x 1	1/4	FP50SB5	Price	FP50SB5D	Price	FP6041500020E	Price	FP6041500027E	Price
SB6	5/8 x 1	1/4	FP50SB6	Price	FP50SB6D	Price	FP6041625020E	Price	FP6041625027E	Price
SB15	3/4 x 3/4	1/4	-	-	-	-	FP6041750120E	Price	FP6041750127E	Price
SB16	3/4 x 3/4	1/4	-	-	-	-	FP6041750220E	Price	FP6041750227E	Price
SB7	3/4 x 1	1/4	FP50SB7	Price	FP50SB7D	Price	FP6041750020E	Price	FP6041750027E	Price
SB9	1 x 1	1/4	FP50SB9	Price	FP50SB9D	Price	FP6041100020E	Price	FP6041100027E	Price

† Extra Length: L2 = 2" OAL, L3 = 3" OAL, L6 = 6" OAL

Ball Shape Burrs

- Double Cut - Rapid stock removal in tough applications. Design reduces the pulling action, reduces the size of chips, ensures rapid stock removal
- Single Cut - General Purpose. Recommended for steel, cast iron, ferrous materials. Offers good stock removal and smooth workpiece finish





RAPIDKUT

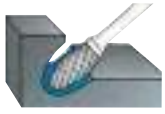
			Rapidkut				M A Ford			
			Single		Double		Price		Double	
Burr No.	Size (in.)	Shank Size (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
SD61	3/32 x 3/32	3/32	-	-	FP50SD61D	Price	-	-	-	-
SD41	3/32 x 5/64	1/8	FP50SD41	Price	FP50SD41D	Price	FP6069045020	Price	FP6069045027	Price
SD11	1/8 x 7/64	1/4	FP50SD11	Price	FP50SD11D	Price	FP6043125020	Price	FP6043125027	Price
SD42	1/8 x 7/64	1/8	FP50SD42	Price	FP50SD42D	Price	FP6069050020	Price	FP6069050027	Price
SD42L3†	1/8 x 7/64	1/8	FP50SD42L3	Price	FP50SD42L3D	Price	FP6069050020L3	Price	FP6069050027L3	Price
SD52	5/32 x 5/32	1/8	-	-	FP50SD52D	Price	-	-	-	-
SD53	3/16 x 5/32	1/8	FP50SD53	Price	FP50SD53D	Price	FP6072050020	Price	FP6072050027	Price
SD81	3/16 x 5/32	3/16	-	-	-	-	FP6074030020	Price	FP6074030027	Price
SD14	3/16 x 5/32	1/4	FP50SD14	Price	FP50SD14D	Price	FP6043187520	Price	FP6043187527	Price
SD51	1/4 x 7/32	1/8	FP50SD51	Price	FP50SD51D	Price	FP6070030020	Price	FP6070030027	Price
SD1	1/4 x 7/32	1/4	FP50SD1	Price	FP50SD1D	Price	FP6043250020	Price	FP6043250027	Price
SD1L6†	1/4 x 7/32	1/4	FP50SD1L6	Price	FP50SD1L6D	Price	FP6043250020L6	Price	FP6043250027L6	Price
SD2	5/16 x 9/32	1/4	FP50SD2	Price	FP50SD2D	Price	FP6043312520	Price	FP6043312527	Price
SD3	3/8 x 5/16	1/4	FP50SD3	Price	FP50SD3D	Price	FP6043375020	Price	FP6043375027	Price
SD3L6†	3/8 x 5/16	1/4	FP50SD3L6	Price	FP50SD3L6D	Price	FP6043375020L6	Price	FP6043375027L6	Price
SD4	7/16 x 3/8	1/4	FP50SD4	Price	FP50SD4D	Price	FP6043437520	Price	FP6043437527	Price
SD5	1/2 x 7/16	1/4	FP50SD5	Price	FP50SD5D	Price	FP6043500020	Price	FP6043500027	Price
SD5L6†	1/2 x 7/16	1/4	FP50SD5L6	Price	FP50SD5L6D	Price	FP6043500020L6	Price	FP6043500027L6	Price
SD6	5/8 x 9/16	1/4	FP50SD6	Price	FP50SD6D	Price	FP6043625020	Price	FP6043625027	Price
SD7	3/4 x 11/16	1/4	FP50SD7	Price	FP50SD7D	Price	FP6043750020	Price	FP6043750027	Price
SD9	1 x 15/16	1/4	-	-	-	-	FP6043100020	Price	FP6043100027	Price

† Extra Length: L2 = 2" OAL, L3 = 3" OAL, L6 = 6" Shank Length

Oval Shape Burrs

- Double Cut - Rapid stock removal in tough applications. Design reduces the pulling action, reduces the size of chips, ensures rapid stock removal
- Single Cut - General Purpose. Recommended for steel, cast iron, ferrous materials. Offers good stock removal and smooth workpiece finish





RAPIDKUT

			Rapidkut				M A Ford			
			Single		Double		Price		Double	
Burr No.	Size (in.)	Shank Size (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
SE41	1/8 x 7/32	1/8	-	-	FP50SE41D	Price	FP6069060020	Price	FP6069060027	Price
SE41L2†	1/8 x 7/32	1/8	-	-	-	-	FP6069060020L2	Price	-	-
SE41L3†	1/8 x 7/32	1/8	-	-	FP50SE41L3D	Price	FP6069060020L3	Price	FP6069060027L3	Price
SE53	3/16 x 9/32	1/8	-	-	-	-	FP6072060020	Price	FP6072060027	Price
SE81	3/16 x 9/32	3/16	-	-	-	-	FP6074040020	Price	FP6074040027	Price
SE11	3/16 x 5/16	1/4	FP50SE11	Price	FP50SE11D	Price	-	-	-	-
SE51	1/4 x 3/8	1/8	FP50SE51	Price	FP50SE51D	Price	FP6070040020	Price	FP6070040027	Price
SE1	1/4 x 3/8	1/4	FP50SE1	Price	FP50SE1D	Price	FP6044250020	Price	FP6044250027	Price
SE1L6†	1/4 x 3/8	1/4	FP50SE1L6	Price	FP50SE1L6D	Price	FP6044250020L6	Price	FP6044250027L6	Price
SE3	3/8 x 5/8	1/4	FP50SE3	Price	FP50SE3D	Price	FP6044375020	Price	FP6044375027	Price
SE3L6†	3/8 x 5/8	1/4	FP50SE3L6	Price	FP50SE3L6D	Price	FP6044375020L6	Price	FP6044375027L6	Price
SE5	1/2 x 7/8	1/4	FP50SE5	Price	FP50SE5D	Price	FP6044500020	Price	FP6044500027	Price
SE5L6†	1/2 x 7/8	1/4	FP50SE5L6	Price	FP50SE5L6D	Price	FP6044500020L6	Price	FP6044500027L6	Price
SE6	5/8 x 1	1/4	FP50SE6	Price	FP50SE6D	Price	FP6044625020	Price	FP6044625027	Price
SE7	3/4 x 1	1/4	FP50SE7	Price	FP50SE7D	Price	FP6044750020	Price	FP6044750027	Price

† Extra Length: L2 = 2" OAL, L3 = 3" OAL, L6 = 6" Shank Length

Tree Shape with Pointed End Burrs

- Double Cut - Rapid stock removal in tough applications. Design reduces the pulling action, reduces the size of chips, ensures rapid stock removal
- Single Cut - General Purpose. Recommended for steel, cast iron, ferrous materials. Offers good stock removal and smooth workpiece finish





RAPIDKUT

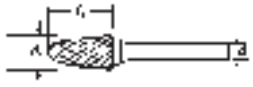
M.A. FORD

			Rapidkut				M A Ford			
			Single		Double		Price		Double	
Burr No.	Size (in.)	Shank Size (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
SG41	1/8 x 1/4	1/8	-	-	FP50SG41D	Price	FP6069090020	Price	FP6069090027	Price
SG42	1/8 x 5/16	1/8	-	-	FP50SG42D	Price	FP6069095020	Price	FP6069095027	Price
SG43	1/8 x 3/8	1/8	FP50SG43	Price	FP50SG43D	Price	FP6069100020	Price	FP6069100027	Price
SG44	1/8 x 1/2	1/8	FP50SG44	Price	FP50SG44D	Price	-	-	-	-
SG44L3†	1/8 x 1/2	1/8	-	-	FP50SG44L3D	Price	-	-	-	-
SG53	3/16 x 1/2	1/8	-	-	FP50SG53D	Price	FP6072090020	Price	FP6072090027	Price
SG81	3/16 x 1/2	3/16	-	-	-	-	FP6074070020	Price	FP6074070027	Price
SG51	1/4 x 1/2	1/8	FP50SG51	Price	FP50SG51D	Price	FP6070060020	Price	FP6070060027	Price
SG1	1/4 x 5/8	1/4	FP50SG1	Price	FP50SG1D	Price	FP6046250020	Price	FP6046250027	Price
SG1L6†	1/4 x 5/8	1/4	FP50SG1L6	Price	FP50SG1L6D	Price	FP6046250020L6	Price	FP6046250027L6	Price
SG2	5/16 x 3/4	1/4	FP50SG2	Price	FP50SG2D	Price	FP6046312520	Price	FP6046312527	Price
SG3	3/8 x 3/4	1/4	FP50SG3	Price	FP50SG3D	Price	FP6046375020	Price	FP6046375027	Price
SG3L6†	3/8 x 3/4	1/4	FP50SG3L6	Price	FP50SG3L6D	Price	FP6046375020L6	Price	FP6046375027L6	Price
SG13	1/2 x 3/4	1/4	FP50SG13	Price	FP50SG13D	Price	FP6046500120	Price	FP6046500127	Price
SG5	1/2 x 1	1/4	FP50SG5	Price	FP50SG5D	Price	FP6046500020	Price	FP6046500027	Price
SG5L6†	1/2 x 1	1/4	FP50SG5L6	Price	FP50SG5L6D	Price	FP6046500020L6	Price	FP6046500027L6	Price
SG6	5/8 x 1	1/4	FP50SG6	Price	FP50SG6D	Price	FP6046625020	Price	FP6046625027	Price
SG7	3/4 x 1	1/4	FP50SG7	Price	FP50SG7D	Price	FP6046750020	Price	FP6046750027	Price
SG15	3/4 x 1-1/2	1/4	-	-	-	-	FP6046750120	Price	FP6046750127	Price

† Extra Length: L2 = 2" OAL, L3 = 3" OAL, L6 = 6" Shank Length

Tree Shape with Radius End Burrs

- Double Cut - Rapid stock removal in tough applications. Design reduces the pulling action, reduces the size of chips, ensures rapid stock removal
- Single Cut - General Purpose. Recommended for steel, cast iron, ferrous materials. Offers good stock removal and smooth workpiece finish







RAPIDKUT

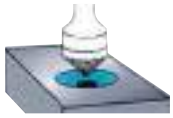
M.A. FORD

			Rapidkut				M A Ford			
			Single		Double		Price		Double	
Burr No.	Size (in.)	Shank Size (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
SF61	3/32 x 1/4	3/32	FP50SF61	Price	-	-	-	-	-	-
SF41	1/8 x 1/4	1/8	FP50SF41	Price	FP50SF41D	Price	FP6069070020	Price	FP6069070027	Price
SF42	1/8 x 1/2	1/8	FP50SF42	Price	FP50SF42D	Price	FP6069080020	Price	FP6069080027	Price
SF11	1/8 x 1/2	1/4	-	-	FP50SF11D	Price	FP6045125020	Price	FP6045125027	Price
SF42L2†	1/8 x 1/2	1/8	-	-	FP50SF42L2D	Price	-	-	-	-
SF42L3†	1/8 x 1/2	1/8	FP50SF42L3	Price	FP50SF42L3D	Price	FP6069080020L3	Price	FP6069080027L3	Price
SF53	3/16 x 1/2	1/8	FP50SF53	Price	FP50SF53D	Price	FP6072080020	Price	FP6072080027	Price
SF81	3/16 x 1/2	3/16	-	-	-	-	FP6074060020	Price	FP6074060027	Price
SF51	1/4 x 1/2	1/8	FP50SF51	Price	FP50SF51D	Price	FP6070050020	Price	FP6070050027	Price
SF1L6†	1/4 x 5/8	1/4	FP50SF1L6	Price	FP50SF1L6D	Price	FP6045250020L6	Price	FP6045250027L6	Price
SF1	1/4 x 5/8	1/4	FP50SF1	Price	FP50SF1D	Price	FP6045250020	Price	FP6045250027	Price
SF3	3/8 x 3/4	1/4	FP50SF3	Price	FP50SF3D	Price	FP6045375020	Price	FP6045375027	Price
SF3L6†	3/8 x 3/4	1/4	FP50SF3L6	Price	FP50SF3L6D	Price	FP6045375020L6	Price	FP6045375027L6	Price
SF4	7/16 x 1	1/4	FP50SF4	Price	FP50SF4D	Price	FP6045437520	Price	FP6045437527	Price
SF13	1/2 x 3/4	1/4	FP50SF13	Price	FP50SF13D	Price	FP6045500120	Price	FP6045500127	Price
SF5	1/2 x 1	1/4	FP50SF5	Price	FP50SF5D	Price	FP6045500020	Price	FP6045500027	Price
SF5L6†	1/2 x 1	1/4	FP50SF5L6	Price	FP50SF5L6D	Price	FP6045500020L6	Price	FP6045500027L6	Price
SF6	5/8 x 1	1/4	FP50SF6	Price	FP50SF6D	Price	FP6045625020	Price	FP6045625027	Price
SF7	3/4 x 1	1/4	FP50SF7	Price	FP50SF7D	Price	FP6045750120	Price	FP6045750127	Price
SF14	3/4 x 1-1/4	1/4	FP50SF14	Price	FP50SF14D	Price	FP6045750020	Price	FP6045750027	Price
SF15	3/4 x 1-1/2	1/4	-	-	-	-	FP6045750220	Price	FP6045750227	Price

† Extra Length: L2 = 2" OAL, L3 = 3" OAL, L6 = 6" Shank Length

90° Cone Shape Burrs

- Double Cut - Rapid stock removal in tough applications. Design reduces the pulling action, reduces the size of chips, ensures rapid stock removal
- Single Cut - General Purpose. Recommended for steel, cast iron, ferrous materials. Offers good stock removal and smooth workpiece finish





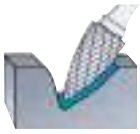

RAPIDKUT®

			Rapidkut				M A Ford			
			Single		Double		Price		Double	
Burr No.	Size (in.)	Shank Size (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
SK42	1/8 x 1/16	1/8	**FP50SK42**	Price	**FP50SK42D**	Price	**FP6069117520**	Price	**FP6069117527**	Price
SK1	1/4 x 1/8	1/4	**FP50SK1**	Price	**FP50SK1D**	Price	**FP6029702500**	Price	**FP6029702507**	Price
SK3	3/8 x 3/16	1/4	**FP50SK3**	Price	**FP50SK3D**	Price	**FP6029703750**	Price	**FP6029703757**	Price
SK5	1/2 x 1/4	1/4	**FP50SK5**	Price	**FP50SK5D**	Price	**FP6029705000**	Price	**FP6029705007**	Price
SK6	5/8 x 5/16	1/4	**-**	-	**-**	-	**FP6029706250**	Price	**FP6029706257**	Price
SK7	3/4 x 3/8	1/4	**FP50SK7**	Price	**FP50SK7D**	Price	**FP6029707500**	Price	**FP6029707507**	Price
SK9	1 x 1/2	1/4	**FP50SK9**	Price	**FP50SK9D**	Price	**FP6029710000**	Price	**FP6029710007**	Price

† Extra Length: L2 = 2" OAL, L3 = 3" OAL, L6 = 6" OAL

Flame Shape Burrs

- Double Cut - Rapid stock removal in tough applications. Design reduces the pulling action, reduces the size of chips, ensures rapid stock removal
- Single Cut - General Purpose. Recommended for steel, cast iron, ferrous materials. Offers good stock removal and smooth workpiece finish






RAPIDKUT®

			Rapidkut				M A Ford			
			Single		Double		Price		Double	
Burr No.	Size (in.)	Shank Size (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
SH41	1/8 x 1/4	1/8	**FP50SH41**	Price	**FP50SH41D**	Price	**FP6069160020**	Price	**FP6069160027**	Price
SH41L2†	1/8 x 1/4	1/8	**FP50SH41L2**	Price	**-**	-	**-**	-	**-**	-
SH41L3†	1/8 x 1/4	1/8	**-**	-	**-**	-	**FP6069160020L3**	Price	**FP6069160027L3**	Price
SH53	3/16 x 3/8	1/8	**-**	-	**FP50SH53D**	Price	**FP6072070020**	Price	**FP6072070027**	Price
SH1	1/4 x 5/8	1/4	**-**	-	**FP50SH1D**	Price	**FP6049250020**	Price	**FP6049250027**	Price
SH2	5/16 x 3/4	1/4	**FP50SH2**	Price	**FP50SH2D**	Price	**FP6049312520**	Price	**FP6049312527**	Price
SH2L6†	5/16 x 3/4	1/4	**FP50SH2L6**	Price	**FP50SH2L6D**	Price	**FP6049312520L6**	Price	**FP6049312527L6**	Price
SH5	1/2 x 1-1/4	1/4	**FP50SH5**	Price	**FP50SH5D**	Price	**FP6049500020**	Price	**FP6049500027**	Price
SH5L6†	1/2 x 1-1/4	1/4	**FP50SH5L6**	Price	**FP50SH5L6D**	Price	**FP6049500020L6**	Price	**FP6049500027L6**	Price
SH6	5/8 x 1-7/16	1/4	**FP50SH6**	Price	**FP50SH6D**	Price	**FP6049625020**	Price	**FP6049625027**	Price
SH7	3/4 x 1-5/8	1/4	**FP50SH7**	Price	**FP50SH7D**	Price	**FP6049750020**	Price	**FP6049750027**	Price

† Extra Length: L2 = 2" OAL, L3 = 3" OAL, L6 = 6" OAL

60° Cone Shape Burrs

- Double Cut - Rapid stock removal in tough applications. Design reduces the pulling action, reduces the size of chips, ensures rapid stock removal
- Single Cut - General Purpose. Recommended for steel, cast iron, ferrous materials. Offers good stock removal and smooth workpiece finish







RAPIDKUT®

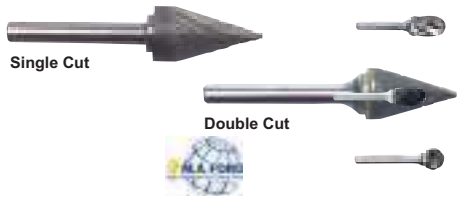
			Rapidkut				M A Ford			
			Single		Double		Price		Double	
Burr No.	Size (in.)	Shank Size (in.)	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
SJ42	1/8 x 3/32	1/8	**-**	-	**FP50SJ42**	Price	**FP6069110020**	Price	**FP6069110027**	Price
SJ1	1/4 x 3/16	1/4	**FP50SJ1**	Price	**FP50SJ1D**	Price	**FP6029602500**	Price	**FP6029602507**	Price
SJ3	3/8 x 5/16	1/4	**FP50SJ3**	Price	**FP50SJ3D**	Price	**FP6029603750**	Price	**FP6029603757**	Price
SJ5	1/2 x 7/16	1/4	**FP50SJ5**	Price	**FP50SJ5D**	Price	**FP6029605000**	Price	**FP6029605007**	Price
SJ6	5/8 x 1/2	1/4	**-**	-	**-**	-	**FP6029606250**	Price	**FP6029606257**	Price
SJ7	3/4 x 9/16	1/4	**FP50SJ7**	Price	**FP50SJ7D**	Price	**FP6029607500**	Price	**FP6029607507**	Price
SJ9	1 x 13/16	1/4	**FP50SJ9**	Price	**FP50SJ9D**	Price	**FP6029610000**	Price	**FP6029610007**	Price

† Extra Length: L2 = 2" OAL, L3 = 3" OAL, L6 = 6" OAL

Cone Shape Burrs

- Double Cut - Rapid stock removal in tough applications. Design reduces the pulling action, reduces the size of chips, ensures rapid stock removal
- Single Cut - General Purpose. Recommended for steel, cast iron, ferrous materials. Offers good stock removal and smooth workpiece finish





RAPIDKUT®

								M A Ford			
				Single		Double		Single		Price	
Burr No.	Size (in.)	Shank Size (in.)	Included Angle	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
SM61	3/32 x 1/4	3/32	10°	-	-	FP50SM61D	Price	-	-	-	-
SM41	1/8 x 3/8	1/8	12°	FP50SM41	Price	FP50SM41D	Price	FP6069125020	Price	FP6069125027	Price
SM42	1/8 x 7/16	1/8	14°	FP50SM42	Price	FP50SM42D	Price	FP6069130020	Price	FP6069130027	Price
SM42L2†	1/8 x 7/16	1/8	14°	FP50SM42L2	Price	FP50SM42L2D	Price	FP6069130020L2	Price	-	-
SM42L3†	1/8 x 7/16	1/8	14°	FP50SM42L3	Price	FP50SM42L3D	Price	FP6069130020L3	Price	FP6069130027L3	Price
SM43	1/8 x 5/8	1/8	7°	FP50SM43	Price	FP50SM43D	Price	FP6069140020	Price	FP6069140027	Price
SM43L3†	1/8 x 5/8	1/8	7°	-	-	FP50SM43L3	Price	-	-	-	-
SM53	3/16 x 1/2	1/8	16°	FP50SM53	Price	FP50SM53D	Price	FP6072100020	Price	FP6072100027	Price
SM51	1/4 x 1/2	1/8	22°	-	-	FP50SM51D	Price	FP6070070020	Price	FP6070070027	Price
SM1	1/4 x 1/2	1/4	22°	FP50SM1	Price	FP50SM1D	Price	FP6047250020	Price	FP6047250027	Price
SM2	1/4 x 3/4	1/4	14°	FP50SM2	Price	FP50SM2D	Price	FP6047250120	Price	FP6047250127	Price
SM3	1/4 x 1	1/4	10°	FP50SM3	Price	FP50SM3D	Price	FP6047250220	Price	FP6047250227	Price
SM4	3/8 x 5/8	1/4	28°	FP50SM4	Price	FP50SM4D	Price	FP6047375020	Price	FP6047375027	Price
SM5	1/2 x 7/8	1/4	28°	FP50SM5	Price	FP50SM5D	Price	FP6047500020	Price	FP6047500027	Price
SM6	5/8 x 1	1/4	31°	FP50SM6	Price	FP50SM6D	Price	FP6047625020	Price	FP6047625027	Price

† Extra Length: L2 = 2" OAL, L3 = 3" OAL, L6 = 6" OAL

Inverted Cone Shape Burrs

- Double Cut - Rapid stock removal in tough applications. Design reduces the pulling action, reduces the size of chips, ensures rapid stock removal
- Single Cut - General Purpose. Recommended for steel, cast iron, ferrous materials. Offers good stock removal and smooth workpiece finish





RAPIDKUT®

								M A Ford			
				Single		Double		Single		Price	
Burr No.	Size (in.)	Shank Size (in.)	Included Angle	Order No.	Price	Order No.	Price	Order No.	Price	Order No.	Price
SN41	3/32 x 1/8	1/8	10°	-	-	-	-	FP6069165020	Price	FP6069165027	Price
SN42	1/8 x 3/16	1/8	10°	FP50SN42	Price	-	-	FP6069170020E	Price	FP6069170027E	Price
SN53	3/16 x 1/4	1/8	10°	-	-	FP50SN53D	Price	FP6072110020	Price	FP6072110027	Price
SN81	3/16 x 1/4	3/16	10°	-	-	-	-	FP6074090020	Price	FP6074090027	Price
SN51	1/4 x 1/4	1/8	10°	FP50SN51	Price	FP50SN51D	Price	FP6070080020	Price	FP6070080027	Price
SN1	1/4 x 5/16	1/4	10°	FP50SN1	Price	FP50SN1D	Price	FP6050025020	Price	FP6050025027	Price
SN2	3/8 x 3/8	1/4	13°	FP50SN2	Price	FP50SN2D	Price	FP6050037520	Price	FP6050037527	Price
SN4	1/2 x 1/2	1/4	28°	FP50SN4	Price	FP50SN4D	Price	FP6050050020	Price	FP6050050027	Price
SN6	5/8 x 3/4	1/4	18°	FP50SN6	Price	FP50SN6D	Price	FP6050062520	Price	FP6050062527	Price
SN7	3/4 x 5/8	1/4	30°	FP50SN7	Price	FP50SN7D	Price	FP6050075020	Price	FP6050075027	Price

Carbide Burr Sets

- Solid carbide
- Assorted shapes

MADE IN THE USA



Burrs in Set	Shank Size (in.)	Cut	Brand Name	Order No.	Price
SA1 SC1 SF1, SD1, SM1	1/4	Double	ProCut	FP45BS1405DC	Price
SA1, SA3, SA5, SC1, SC3, SC5, SF1, SF3, SF5	1/4	Double	Rapidkut	FP50120015	Price
SA1, SB1, SC1, SD1, SE1, SF1, SG1, SH1, SJ1, SK1, SM1, SN1	1/4	Double	Rapidkut	FP50120009	Price
SA1, SC1, SD1, SE1, SF1, SG1, SL1, SM2	1/4	Double	Rapidkut	FP50151122	Price
SA1, SC1, SD1, SE1, SF1, SG1,SH1, SJ1, SK1, SL1, SM1, SN1	1/4	Double	ProCut	FP45BS1412DC	Price
SA11, SB14, SC13, SD14, SE11, SF11, SG1, SH1, SJ1, SK1, SM1, SN1	1/4	Double	Rapidkut	FP50120011	Price
SA42, SA43, SC41, SC42, SD42, SE41,SF42, SG42, SH41, SL42, SM42, SN42	1/8	Double	ProCut	FP45BS1812DC	Price
SA42, SA43, SC42, SD42, SE41, SF41, SF42, SG41, SL42, SM43, SN41, SN42	1/8	Double	Rapidkut	FP50120001	Price
SA5, SC3, SC5, SD5, SF3, SF5, SG3, SL4	1/4	Double	Rapidkut	FP50151124	Price
SA5, SC5, SD5, SE5, SG5, SH5, SK5, SM5	1/4	Double	Rapidkut	FP50120019	Price
SA51, SB51, SC51, SD51, SE51, SF51, SG51, SM51, SN51,	1/8	Double	ProCut	FP45BS1809DC	Price
SA51, SC51, SF51, SD51, SM51	1/8	Double	ProCut	FP45BS1805DC	Price
SB1, SB3, SB5, SD1, SD3, SD5, SE1, SE3, SE5	1/4	Double	Rapidkut	FP50120016	Price
SB1, SC1, SD1, SE1, SF1, SG1, SH1, SJ1, SK1, SL1, SM1, SN1	1/4	Double	Rapidkut	FP50120010	Price
R1Thru R8 & R10	1/8	Single	Generic USA	FP50R100	Price
R15 Thru R23	1/8	Single	Generic USA	FP50R110	Price
R24, R26R31 & R33	1/4	Single	Generic USA	FP50R120	Price

RAPIDKUT® NF Burrs For Aluminum - 1/4" Shank



Designed for use on aluminum, non-ferrous metals, soft steel, reinforced plastics, and other soft materials. High flute finish for easy chip flow and fast stock removal. Also provides excellent work finish with minimum loading when cutting soft, sticky metals

MADE IN THE USA

Shape - 14° Taper Shape				
Size (in.)	Burr No.	Shape	Order No.	Price
3/8 x 1-1/16	SL3NF	14°Taper Shape	**FP50SL3NF**	Price
1/2 x 1-1/8	SL4NF	14°Taper Shape	**FP50SL4NF**	Price
5/8 x 1-5/16	SL6NF	14°Taper Shape	**FP50SL6NF**	Price
3/4 x 1-1/2	SL7NF	14°Taper Shape	**FP50SL7NF**	Price

Shape - Ball End				
Size (in.)	Burr No.	Shape	Order No.	Price
1/4 x 3/16	SD1NF	Ball End	**FP50SD1NF**	Price
3/8 x 5/16	SD3NF	Ball End	**FP50SD3NF**	Price
1/2 x 7/16	SD5NF	Ball End	**FP50SD5NF**	Price
5/8 x 9/16	SD6NF	Ball End	**FP50SD6NF**	Price
3/4 x 11/16	SD7NF	Ball End	**FP50SD7NF**	Price

Shape - Cylindrical				
Size (in.)	Burr No.	Shape	Order No.	Price
1/4 x 3/4	SA1NF	Cylindrical	**FP50SA1NF**	Price
3/8 x 3/4	SA3NF	Cylindrical	**FP50SA3NF**	Price
1/2 x 1	SA5NF	Cylindrical	**FP50SA5NF**	Price
5/8 x 1	SA6NF	Cylindrical	**FP50SA6NF**	Price
3/4 x 1	SA7NF	Cylindrical	**FP50SA7NF**	Price

Shape - Cylindrical Radius End				
Size (in.)	Burr No.	Shape	Order No.	Price
1/4 x 3/4	SC1NF	Cylindrical Radius End	**FP50SC1NF**	Price
3/8 x 3/4	SC3NF	Cylindrical Radius End	**FP50SC3NF**	Price
1/2 x 1	SC5NF	Cylindrical Radius End	**FP50SC5NF**	Price
5/8 x 1	SC6NF	Cylindrical Radius End	**FP50SC6NF**	Price
3/4 x 1	SC7NF	Cylindrical Radius End	**FP50SC7NF**	Price

Shape - Oval				
Size (in.)	Burr No.	Shape	Order No.	Price
3/8 x 5/8	SE3NF	Oval	**FP50SE3NF**	Price
1/2 x 7/8	SE5NF	Oval	**FP50SE5NF**	Price
5/8 x 1	SE6NF	Oval	**FP50SE6NF**	Price
3/4 x 1	SE7NF	Oval	**FP50SE7NF**	Price

Shape - Taper Shape Radius End				
Size (in.)	Burr No.	Shape	Order No.	Price
1/4 x 3/4	SF1NF	Taper Shape Radius End	**FP50SF1NF**	Price
3/8 x 3/4	SF3NF	Taper Shape Radius End	**FP50SF3NF**	Price
1/2 x 1	SF5NF	Taper Shape Radius End	**FP50SF5NF**	Price
5/8 x 1	SF6NF	Taper Shape Radius End	**FP50SF6NF**	Price
3/4 x 1	SF7NF	Taper Shape Radius End	**FP50SF7NF**	Price

Carbide Burrs for Aluminum

Shape - 14° Taper Shape			
Burr No.	Size	Order No.	Price
SL3NF	3/8 x 1-1/16	**FP6148375150**	Price
SL4NF	1/2 x 1-1/8	**FP6148500150**	Price
SL6NF	5/8 x 1-5/16	**FP6148625150**	Price

Shape - Ball End			
Burr No.	Size	Order No.	Price
SD3NF	3/8 x 5/16	**FP6143375150**	Price
SD5NF	1/2 x 7/16	**FP6143500150**	Price
SD6NF	5/8 x 9/16	**FP6143625150**	Price

Shape - Cylindrical			
Burr No.	Size	Order No.	Price
SA3NF	3/8 x 3/4	**FP6141375150**	Price
SA5NF	1/2 x 1	**FP6141500150**	Price
SA7NF	3/4 x 1	**FP6141625150**	Price

Shape - Cylindrical Radius End			
Burr No.	Size	Order No.	Price
SC3NF	3/8 x 3/4	**FP6142375150**	Price
SC5NF	1/2 x 1	**FP6142500150**	Price
SC7NF	3/4 x 1	**FP6142625150**	Price

Shape - Oval			
Burr No.	Size	Order No.	Price
SE3NF	3/8 x 5/8	**FP6144375150**	Price
SE5NF	1/2 x 7/8	**FP6144500150**	Price
SE6NF	5/8 x 1	**FP6144625150**	Price

Shape - Taper Shape Radius End			
Burr No.	Size	Order No.	Price
SF3NF	3/8 x 3/4	**FP6145375150**	Price
SF5NF	1/2 x 1	**FP6145500150**	Price
SF6NF	5/8 x 1	**FP6145625150**	Price

Solid Carbide Burrs 1/8" Shanks

MADE IN THE USA

Item	Size (in.)	Order No.	Price
	1/8 x 1/4	**FP50R7**	Price
	1/8 x 1/4	**FP50R8**	Price
	1/8 x 1/8	**FP50R12**	Price
	1/8 x 1/8	**FP50R13**	Price
	1/8 x 1/8	**FP50R14**	Price
	1/8 x 1/8	**FP50R5**	Price
	1/8 x 13/32	**FP50R10**	Price
	1/8 x 3/16	**FP50R11**	Price
	1/8 x 3/16	**FP50R6**	Price
	1/8 x 3/16	**FP50R9**	Price
	1/8 x 5/8	**FP50R1**	Price
	1/8 x 5/8	**FP50R3**	Price
	3/32 x 1/2	**FP50R2**	Price
	3/32 x 1/2	**FP50R4**	Price

Carbide Burrs 1/4" Shank 2" OAL

MADE IN THE USA

Item	Size (in.)	Order No.	Price
	1/4 x 1/2	**FP50R33**	Price
	1/4 x 1/4	**FP50R28**	Price
	1/4 x 1/4	**FP50R35**	Price
	1/4 x 5/8	**FP50R37**	Price
	1/4 x 3/8	**FP50R29**	Price
	1/4 x 3/8	**FP50R34**	Price
	1/4 x 5/8	**FP50R24**	Price
	1/4 x 5/8	**FP50R26**	Price
	1/4 x 5/8	**FP50R30**	Price
	1/4 x 5/8	**FP50R31**	Price
	1/4 x 60°	**FP50R32**	Price
	1/4 x 82°	**FP50R36**	Price
	3/16 x 1/2	**FP50R25**	Price
	3/16 x 1/2	**FP50R27**	Price

1/4" Diameter Carbide Burrs 1/8" Steel Shank

MADE IN THE USA

Item	Size (in.)	Order No.	Price
	1/4 x 1/2	**FP50R15**	Price
	1/4 x 1/2	**FP50R17**	Price
	1/4 x 1/2	**FP50R20**	Price
	1/4 x 1/2	**FP50R21**	Price
	1/4 x 1/2	**FP50R22**	Price
	1/4 x 1/4	**FP50R16**	Price
	1/4 x 1/4	**FP50R18**	Price
	1/4 x 1/4	**FP50R23**	Price
	1/4 x 3/8	**FP50R19**	Price

RAPIDKUT® Cylinder Shape

MADE IN THE USA

1/4" Shank



Size (in.)	Order No.	Price
1/8 x 1/2	FP40125A	Price
1/4 x 1	FP40250A	Price
5/16 x 1	FP40312A	Price
3/8 x 1	FP40375A	Price
1/2 x 1	FP40500A	Price
5/8 x 1	FP40625A	Price
3/4 x 3/4	FP40750A	Price

RAPIDKUT® Oval Shape

MADE IN THE USA

1/4" Shank



Size (in.)	Order No.	Price
3/8 x 5/8	FP40375Q	Price
5/8 x 1	FP40625Q	Price

RAPIDKUT® Inverted Cone Shape

MADE IN THE USA

1/4" Shank



Size (in.)	Order No.	Price
1/2 x 1/2	FP40500N	Price
1/4 x 1/2	FP40250N	Price

RAPIDKUT® Concave Shape

MADE IN THE USA

1/4" Shank



Size (in.)	Order No.	Price
1/4 x 1	FP40250BI	Price

RAPIDKUT® Ball Shape

MADE IN THE USA

1/4" Shank



Size (in.)	Order No.	Price
1/8	FP40125B	Price
3/16	FP40187B	Price
1/4	FP40250B	Price
5/16	FP40312B	Price
3/8	FP40375B	Price
1/2	FP40500B	Price
5/8	FP40625B	Price
3/4	FP40750B	Price

RAPIDKUT® Tree Shape Radius End

MADE IN THE USA

1/4" Shank



Size (in.)	Order No.	Price
1/2 x 1	FP40500R	Price
1/2 x 1-1/8	FP40500RB	Price
1/4 x 3/4	FP40250R	Price
3/4 x 1-1/4	FP40750R	Price
3/8 x 3/4	FP40375R	Price
5/8 x 1-1/8	FP40625R	Price

RAPIDKUT® Cylindrical Radius End

MADE IN THE USA

1/4" Shank



Size (in.)	Order No.	Price
1/8 x 1/2	FP40125C	Price
1/4 x 1	FP40250C	Price
5/16 x 1	FP40312C	Price
3/8 x 1	FP40375C	Price
1/2 x 1	FP40500C	Price
5/8 x 1	FP40625C	Price
3/4 x 1-1/4	FP40750C	Price

RAPIDKUT® Tree Shape Pointed End

MADE IN THE USA

1/4" Shank



Size (in.)	Order No.	Price
1/2 x 3/4	FP40500TA	Price
1/4 x 5/8	FP40250T	Price

RAPIDKUT® Tapered Shape Radius End

MADE IN THE USA

1/4" Shank
14° Included Angle



Size (in.)	Order No.	Price
1/4 x 5/8	FP40250HD	Price

RAPIDKUT® Cone Shape

MADE IN THE USA

1/4" Shank



Included Angle	Size	Order No.	Price
10° Cone	1/4 x 1	FP40250H	Price
14° Cone	1/4 x 3/4	FP40250HB	Price
22° Cone	1/4 x 1/2	FP40250HA	Price
28° Cone	1/2 x 7/8	FP40500H	Price
31° Cone	5/8 x 1	FP40625H	Price
8° Cone	5/16 x 1	FP40312H	Price

RAPIDKUT® Burr Sets

MADE IN THE USA



Shank Size (in.)	Size	Order No.	Price
1/8	H1 thru H20	FP4020	Price
1/4	20 Most Popular	FP4025	Price

RAPIDKUT® 1/8" Shank Burrs

MADE IN THE USA

Item	Size (in.)	Order No.	Price
	1/8 x 1/8	FP40H22	Price
	1/8 x 1/4	FP40H11	Price
	1/8 x 5/8	FP40H14	Price
	1/8 x 9/16	FP40H10	Price
	1/8 x 5/8	FP40H13	Price
	1/8 x 5/16	FP40H26	Price
	3/16 x 3/16	FP40H31	Price
	3/16 x 3/8	FP40H27	Price
	3/16 x 3/8	FP40H28	Price
	3/16 x 5/8	FP40H21	Price
	3/16 x 5/8	FP40H23	Price
	1/4 x 1/4	FP40H7	Price
	1/4 x 1/4	FP40H8	Price
	1/4 x 1/4	FP40H30	Price
	1/4 x 1/2	FP40H1	Price
	1/4 x 1/2	FP40H20	Price
	1/4 x 1/2	FP40H4	Price
	1/4 x 1/2	FP40H2	Price
	1/4 x 1/2	FP40H33	Price
	1/4 x 5/8	FP40H32	Price
	3/8 x 1/32	FP40H29	Price
	3/8 x 3/8	FP40H19	Price
	5/8 x 1/8	FP40H15	Price
	5/8 x 1/8	FP40H16	Price
	5/8 x 1/8	FP40H18	Price

Solid Carbide Grinding Burrs



Size x L.O.C.(in.)	Shank Size (in.)	Neck Length (in.)	OAL (in.)	Order No.	Price
1/16 x 1/8	1/8	3/8	1-1/2	**FP501450**	Price
3/32 x 1/8	1/8	3/8	1-1/2	**FP501452**	Price
1/8 x 1/8	1/8	7/16	1-1/2	**FP501454**	Price
5/32 x 3/16	3/16	1/2	2	**FP501456**	Price
3/16 x 3/16	3/16	9/16	2	**FP501458**	Price
7/32 x 1/4	1/4	5/8	2	**FP501460**	Price
1/4 x 1/4	1/4	3/4	2	**FP501462**	Price
9/32 x 5/16	1/4	-	2-1/2	**FP501463**	Price
5/16 x 5/16	1/4	-	2-1/2	**FP501464**	Price

Solid Carbide Grinding Burrs

with Heat Treated Steel Shanks



Size x L.O.C. (in.)	Shank Size (in.)	OAL (in.)	Order No.	Price
5/16 x 5/16	1/4	2-1/2	**FP501467**	Price
3/8 x 5/16	1/4	2-1/2	**FP501468**	Price
7/16 x 5/16	1/4	2-1/2	**FP501469**	Price
1/2 x 5/16	1/4	2-1/2	**FP501470**	Price
5/8 x 3/8	3/8	2-1/2	**FP501472**	Price
3/4 x 3/8	3/8	2-1/2	**FP501473**	Price
7/8 x 3/8	3/8	2-1/2	**FP501474**	Price
1 x 3/8	3/8	2-1/2	**FP501475**	Price

Carbide Burr Dispenser

- Holds the following burs: SA-1, SC-1, SD-1, SE-1, SF-1, SG-1, SL-1, SM-3, SA-3, SC-3, SD-3, SE-3, SF-3, SG-3, SL-3, SM-4, SA-5, SC-5, SE-5, SF-5, SG-5, SL-4, SM-5
- Shipping weight: 11 lbs
- Separates and protects valuable carbide burrs
- All steel cabinet with extruded vinyl compartments
- Easy to read identification numbers
- Sturdy and stackable
- High quality epoxy finish
- Dimensions: 7-3/8 x 7-3/4 x 14-5/8

MADE IN THE USA



Order No.	Price
AP5313200	Price

25 Pc. Solid Carbide Burr Mix

1/4" Shank

1/8” thru 3/8” Diameter Heads

MADE IN THE USA



Order No.	Price
FP800250	Price

20 Pc. Solid Carbide Burr Mix - 1/8" Shank

1/8” Diameter Heads

MADE IN THE USA



Order No.	Price
FP800125	Price

EXOPRO® Aero-BNC Routers

Nicked Routers

- Type 1 - Non end cutting
- Type 2 - Bur end
- Type 3 - End mill cut
- Type 4 - Drill point
- OSG List #2061



Cutter Dia. (in.)	Shank Dia. (in.)	LOC (in.)	OAL (in.)	No. of Flutes	Type	Order No.	Price
1/8	1/8	1/4	1-1/2	6	Type 2 - Bur End	**TP5220610116**	Price
1/8	1/8	3/8	1-1/2	6	Type 3 - End Mill Cut	**TP5220611116**	Price
1/8	1/8	1/2	1-1/2	8	Type 3 - End Mill Cut	**TP5220612116**	Price
3/16	3/16	3/8	2	6	Type 2 - Bur End	**TP5220610216**	Price
3/16	3/16	9/16	2	6	Type 3 - End Mill Cut	**TP5220611216**	Price
3/16	3/16	3/4	2	8	Type 3 - End Mill Cut	**TP5220612216**	Price
1/4	1/4	1/2	2-1/2	8	Type 2 - Bur End	**TP5220610316**	Price
1/4	1/4	3/4	2-1/2	10	Type 2 - Bur End	**TP5220612316**	Price
1/4	1/4	3/4	2-1/2	10	Type 3 - End Mill Cut	**TP5220611316**	Price
1/4	1/4	3/4	2-1/2	8	Type 2 - Bur End	**TP5220613416**	Price
1/4	1/4	3/4	2-1/2	12	Type 2 - Bur End	**TP5220612416**	Price
1/4	1/4	1	3	8	Type 2 - Bur End	**TP5220613216**	Price
1/4	1/4	1	3	10	Type 2 - Bur End	**TP5220614316**	Price
1/4	1/4	1	3	12	Type 2 - Bur End	**TP5220614400**	Price
1/4	1/4	1	3	12	Type 2 - Bur End	**TP5220614416**	Price
1/4 w/.030 R	1/4	1	3	12	Type 2 - Bur End	**TP5220617316**	Price
1/4	1/4	1	3	10	Type 3 - End Mill Cut	**TP5220613316**	Price
1/4	1/4	1	3	8	Type 4 - Drill Point	**TP5220616316**	Price
1/4	1/4	1	3	12	Type 4 - Drill Point	**TP5220616416**	Price
1/4	1/4	1-1/4	4	12	Type 1 - Non End Cutting	**TP5220615316**	Price
1/4	1/4	1-1/4	4	8	Type 2 - Bur End	**TP5220615216**	Price
5/16	5/16	1	2-1/2	10	Type 3 - End Mill Cut	**TP5220610416**	Price
3/8	3/8	3/4	2-1/2	12	Type 2 - Bur End	**TP5220610516**	Price
3/8	3/8	1-1/8	3	12	Type 2 - Bur End	**TP5220612516**	Price
3/8	3/8	1-1/8	3	12	Type 3 - End Mill Cut	**TP5220611516**	Price
3/8 w/.030 R	3/8	1-1/8	3	12	Type 2 - Bur End	**TP5220616816**	Price
3/8	3/8	1-1/4	3	12	Type 4 - Drill Point	**TP5220616516**	Price
3/8	3/8	1-1/2	4	12	Type 2 - Bur End	**TP5220614516**	Price
3/8	3/8	1-1/2	4	12	Type 3 - End Mill Cut	**TP5220613516**	Price
3/8	3/8	2	4	12	Type 1 - Non End Cutting	**TP5220615516**	Price
1/2	1/2	1	3	14	Type 2 - Bur End	**TP5220611716**	Price
1/2 w/.030 R	1/2	1	3	12	Type 2 - Bur End	**TP5220613716**	Price
1/2	1/2	1	3	14	Type 3 - End Mill Cut	**TP5220610716**	Price
1/2	1/2	1	3	14	Type 4 - Drill Point	**TP5220615716**	Price
1/2	1/2	2	4	16	Type 2 - Bur End	**TP5220612716**	Price

MICRO 100 Solid Carbide Single Flute Routers

MADE IN THE USA

For Plastic & Composites or Aluminum & Non-Ferrous

- Optimized rake and clearance angles produce highest material removal rates and improved surface finishes
- Innovative single flute end mill geometry avoids chip melting and chip re-welding problems
- Special coating available upon request
- Shank diameter tolerance: -.0001 to -.0002”
- Cutter diameter tolerance: +.000 to -.002”
- T.I.R. maximum: .0005”



- Routers					
				RH for Aluminum	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	1/8	1/4	1-1/2	**GE45SFA06222**	Price
1/8	1/8	1/4	1-1/2	**GE45SFA12522**	Price
1/8	1/4	1/4	2	**GE45SFA12542**	Price
1/8	1/8	1/2	1-1/2	**GE45SFA12524**	Price
1/8	1/4	1/2	2	**GE45SFA12544**	Price
5/32	1/4	5/8	2	**GE45SFA15645**	Price
3/16	3/16	1/2	2	**GE45SFA18733**	Price
3/16	1/4	1/2	2	**GE45SFA18744**	Price
3/16	3/16	5/8	2	**GE45SFA18735**	Price
3/16	1/4	5/8	2	**GE45SFA18745**	Price
7/32	1/4	3/4	2-1/2	**GE45SFA21846**	Price
1/4	1/4	3/8	2-1/2	**GE45SFA25043**	Price
1/4	1/4	3/4	2-1/2	**GE45SFA25046**	Price
1/4	1/4	1-1/4	3	**GE45SFA250410**	Price
3/8	3/8	1-1/8	3	**GE45SFA37569**	Price
1/2	1/2	1	3	**GE45SFA50088**	Price
1/2	1/2	1-1/2	3	**GE45SFA500812**	Price

- Routers- LH Spiral RH Cut					
				LH Spiral RH Cut for Plastics	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/8	1/4	1/2	2	**GE45SFL12544**	Price

- Routers- LH Spiral RH Cut					
				LH Spiral RH Cut for Plastics	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
3/16	1/4	5/8	2	**GE45SFL18745**	Price

- Routers- RH Spiral RH Cut					
				RH Spiral RH Cut for Plastics	
Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	OAL (in.)	Order No.	Price
1/16	1/8	1/4	1-1/2	**GE45SFP06222**	Price
1/16	1/4	1/4	2	**GE45SFP06242**	Price
1/8	1/8	1/4	1-1/2	**GE45SFP12522**	Price
1/8	1/4	1/4	2	**GE45SFP12542**	Price
1/8	1/8	1/2	1-1/2	**GE45SFP12524**	Price
1/8	1/4	1/2	2	**GE45SFP12544**	Price
5/32	1/4	5/8	2	**GE45SFP15645**	Price
3/16	3/16	5/8	2	**GE45SFP18735**	Price
3/16	1/4	5/8	2	**GE45SFP18745**	Price
1/4	1/4	3/8	2-1/2	**GE45SFP25043**	Price
1/4	1/4	3/4	2-1/2	**GE45SFP25046**	Price
1/4	1/4	1-1/4	3	**GE45SFP250410**	Price
3/8	3/8	1-1/8	3	**GE45SFP37569**	Price
1/2	1/2	1	3	**GE45SFP50088**	Price
1/2	1/2	1-1/2	3	**GE45SFP500812**	Price

MICRO 100 SFAM Series Metric High Performance Router, Single Flute

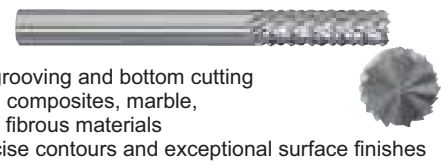
- For aluminum and non-ferrous cutting applications
- Rake and clearance angles produce highest material removal rates and improved surface finishes
- Single flute geometry avoids chip melting and chip rewelding problems
- T.I.R. maximum .013mm



Dia. (D1, mm)	Shank Dia. (D2, mm)	Flute Length (L2, mm)	OAL (L1, mm)	Order No.	Price
4mm	6mm	16	57	**GE45SFAM040020**	Price
5mm	6mm	20	57	**GE45SFAM050025**	Price
6mm	6mm	25	57	**GE45SFAM060030**	Price
8mm	8mm	30	75	**GE45SFAM080040**	Price

Dia. (D1, mm)	Shank Dia. (D2, mm)	Flute Length (L2, mm)	OAL (L1, mm)	Order No.	Price
8mm	8mm	20	100	**GE45SFAM080100**	Price
10mm	10mm	35	90	**GE45SFAM100050**	Price
12mm	12mm	40mm	90mm	**GE45SFAM120050**	Price

RAPIDKUT® Solid Carbide Diamond Cut Routers

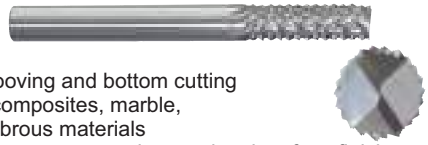


Burr End Cut

- Applications include grooving and bottom cutting
- For use on fiberglass, composites, marble, ceramic tile and other fibrous materials
- Ideal for smooth, precise contours and exceptional surface finishes
- Offers longer tool life, fast chip clearance and accurate cutting

Cutter Dia. (in.)	Shank (in.)	LOC (in.)	OAL (in.)	Order No.	Price
1/16	1/8	3/16	1-1/2	**CB2010025**	Price
3/32	1/8	3/8	1-1/2	**CB2010027**	Price
1/8	1/8	1/2	1-1/2	**CB2010029**	Price
3/16	3/16	5/8	2	**CB2010031**	Price
3/16	1/4	5/8	2	**CB2010033**	Price
1/4	1/4	3/4	2	**CB2010035**	Price
1/4	1/4	3/4	2-1/2	**CB2010037**	Price
1/4	1/4	1	3	**CB2010039**	Price
5/16	5/16	1	2-1/2	**CB2010041**	Price
3/8	3/8	1	2-1/2	**CB2010043**	Price
1/2	1/2	1	3	**CB2010045**	Price

RAPIDKUT® Solid Carbide Diamond Cut Routers



End Mill Style

- Applications include grooving and bottom cutting
- For use on fiberglass, composites, marble, ceramic tile and other fibrous materials
- Ideal for smooth, precise contours and exceptional surface finishes
- Offers longer tool life, fast chip clearance and accurate cutting

Cutter Dia. (in.)	Shank (in.)	LOC (in.)	OAL (in.)	Order No.	Price
1/16	1/8	3/16	1-1/2	**CB2010047**	Price
3/32	1/8	3/8	1-1/2	**CB2010049**	Price
1/8	1/8	1/2	1-1/2	**CB2010051**	Price
3/16	3/16	5/8	2	**CB2010053**	Price
3/16	1/4	5/8	2	**CB2010055**	Price
1/4	1/4	3/4	2	**CB2010057**	Price
1/4	1/4	3/4	2-1/2	**CB2010059**	Price
1/4	1/4	1	3	**CB2010061**	Price
5/16	5/16	1	2-1/2	**CB2010063**	Price
3/8	3/8	1	2-1/2	**CB2010065**	Price
1/2	1/2	1	3	**CB2010067**	Price

RAPIDKUT® Solid Carbide Diamond Cut Routers



Drill Point



- Applications include plunge feeding in brittle or hard materials
- 135° Drill point for faster penetration
- For use on fiberglass, composites, marble, ceramic tile and other fibrous materials
- Ideal for smooth, precise contours and exceptional surface finishes
- Offers longer tool life, fast chip clearance and accurate cutting

Cutter Dia. (in.)	Shank (in.)	LOC (in.)	OAL (in.)	Order No.	Price
1/16	1/8	3/16	1-1/2	**CB2010069**	Price
3/32	1/8	3/8	1-1/2	**CB2010071**	Price
1/8	1/8	1/2	1-1/2	**CB2010073**	Price
3/16	3/16	5/8	2	**CB2010075**	Price
3/16	1/4	5/8	2	**CB2010077**	Price
15/64	1/4	1	3	**CB2010079**	Price
1/4	1/4	3/4	2	**CB2010081**	Price
1/4	1/4	3/4	2-1/2	**CB2010083**	Price
1/4	1/4	1	3	**CB2010085**	Price
5/16	5/16	1	2-1/2	**CB2010087**	Price
3/8	3/8	1	2-1/2	**CB2010091**	Price
1/2	1/2	1	3	**CB2010093**	Price

RAPIDKUT® Solid Carbide Diamond Cut Routers



Fishtail Style



- No splintering
- Minimum burr formation
- Applications include plunge feeding
- For use on fiberglass, composites, marble, ceramic tile and other fibrous materials
- Ideal for smooth, precise contours and exceptional surface finishes
- Offers longer tool life, fast chip clearance and accurate cutting

Cutter Dia. (in.)	Shank (in.)	LOC (in.)	OAL (in.)	Order No.	Price
1/16	1/8	3/16	1-1/2	**CB2010099**	Price
3/32	1/8	3/8	1-1/2	**CB2010101**	Price
1/8	1/8	1/2	1-1/2	**CB2010103**	Price
3/16	3/16	5/8	2	**CB2010105**	Price
3/16	1/4	5/8	2	**CB2010107**	Price
1/4	1/4	3/4	2	**CB2010109**	Price
1/4	1/4	3/4	2-1/2	**CB2010111**	Price
1/4	1/4	1	3	**CB2010113**	Price
5/16	5/16	1	2-1/2	**CB2010115**	Price
3/8	3/8	1	2-1/2	**CB2010117**	Price
1/2	1/2	1	3	**CB2010119**	Price

RAPIDKUT® Solid Carbide Internal Grinding Tools



- Diamond cut pattern with end cutting
- Suitable for any ferrous materials, including heat-treated mold & die steels up to 60 Hrc
- Diameters 1/4" and smaller are solid carbide with a back-tapered neck
- Diameters 9/32" and larger are brazed onto a carbide shank

Dia. (in.)	Shank (in.)	LOC (in.)	Neck Length	Order No.	Price
.030	1/8	3/32	1/8	**CB2530030**	Price
.040	1/8	3/32	3/16	**CB2530040**	Price
.050	1/8	1/8	1/4	**CB2530050**	Price
1/16	1/8	1/8	3/8	**CB2530062**	Price
5/64	1/8	5/32	3/8	**CB2530078**	Price
3/32	1/8	5/32	3/8	**CB2530094**	Price
7/64	1/8	3/16	1/2	**CB2530109**	Price
1/8	1/8	3/16	1/2	**CB2530125**	Price
9/64	3/16	7/32	5/8	**CB2530140**	Price
5/32	3/16	7/32	5/8	**CB2530156**	Price
11/64	3/16	1/4	5/8	**CB2530172**	Price
3/16	3/16	1/4	5/8	**CB2530188**	Price
13/64	1/4	9/32	3/4	**CB2530203**	Price
7/32	1/4	9/32	3/4	**CB2530219**	Price
15/64	1/4	5/16	3/4	**CB2530234**	Price
1/4	1/4	5/16	3/4	**CB2530250**	Price
9/32	1/4	11/32	-	**CB2530281**	Price
5/16	1/4	11/32	-	**CB2530312**	Price
11/32	1/4	3/8	-	**CB2530344**	Price
3/8	1/4	3/8	-	**CB2530375**	Price
1/2	3/8	3/8	-	**CB2530500**	Price

RAPIDKUT® Solid Carbide Die Trimmers



- Double cut, featuring both left and right hand flute geometry - offering better operator control and rapid removal of material
- The pilot allows excess welding or filler material to be removed from the surface without marking the die beyond the repair area
- Use on any ferrous material including heat treated molds and die steels up to 60 Hrc

Dia (in.)	Shank (in.)	LOC (in.)	Pilot Length (in.)	OAL (in.)	Order No.	Price
1/8	1/8	1	1/2	2-1/2	**CB2520540**	Price
1/8	1/8	1	1/2	3	**CB2520520**	Price
3/16	3/16	1	1/2	2-1/2	**CB2520560**	Price
1/4	1/4	1	1/2	2-1/2	**CB2520580**	Price
1/4	1/4	1	1/2	3	**CB2520600**	Price
3/8	3/8	1	1/2	2-1/2	**CB2520620**	Price
1/2	1/2	1	1/2	2-1/2	**CB2520640**	Price

RAPIDKUT® Solid Carbide Diamond Cut Routers



No End Cut

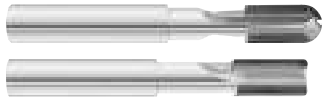


- Applications include edge routing, smoothing and finishing
- For use on fiberglass, composites, marble, ceramic tile and other fibrous materials
- Ideal for smooth, precise contours and exceptional surface finishes
- Offers longer tool life, fast chip clearance and accurate cutting

Cutter Dia. (in.)	Shank (in.)	LOC (in.)	OAL (in.)	Order No.	Price
1/16	1/8	3/16	1-1/2	**CB2010003**	Price
3/32	1/8	3/8	1-1/2	**CB2010005**	Price
1/8	1/8	1/2	1-1/2	**CB2010007**	Price
3/16	3/16	5/8	2	**CB2010009**	Price
3/16	1/4	5/8	2	**CB2010011**	Price
1/4	1/4	3/4	2	**CB2010013**	Price
1/4	1/4	3/4	2-1/2	**CB2010015**	Price
1/4	1/4	1	3	**CB2010017**	Price
5/16	5/16	1	2-1/2	**CB2010019**	Price
3/8	3/8	1	2-1/2	**CB2010021**	Price
1/2	1/2	1	3	**CB2010023**	Price

FULLERTON Solid Carbide PCD Routers

Series 6900



- Made from pure Polycrystalline Diamond (PCD) to create the most abrasive resistant tooling
- Produces clean part edges, increases resistance to abrasive wear and reduces formation of built-up edges
- Straight flute, right hand cut
- Shank diameter tolerance: h6
- Cutter diameter tolerance: +.0000 -.0005" / +0.000-0.013mm

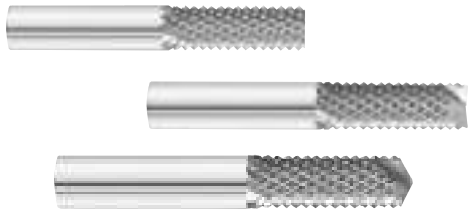
Style - .010 Corner Radius					
Cutter Dia. (in.)	Shank (in.)	LOC (in.)	OAL (in.)	Order No.	Price
1/4	1/4	3/8	2-1/2	**FT8525700**	Price
1/4	1/4	3/4	3	**FT8525701**	Price
3/8	3/8	3/8	2-1/2	**FT8525702**	Price
3/8	3/8	3/4	4	**FT8525703**	Price
1/2	1/2	1/2	4	**FT8525718**	Price
1/2	1/2	1	4	**FT8525719**	Price

Style - .060 Corner Radius					
Cutter Dia. (in.)	Shank (in.)	LOC (in.)	OAL (in.)	Order No.	Price
1/2	1/2	1/2	4	**FT8525704**	Price
1/2	1/2	1	4	**FT8525705**	Price

Style - .25mm Corner Radius					
Cutter Dia. (in.)	Shank (in.)	LOC (in.)	OAL (in.)	Order No.	Price
6mm	6mm	10mm	64mm	**FT8525706**	Price
6mm	6mm	20mm	76mm	**FT8525707**	Price
10mm	10mm	10mm	64mm	**FT8525708**	Price
10mm	10mm	20mm	100mm	**FT8525709**	Price
12mm	12mm	12mm	90mm	**FT8525710**	Price
12mm	12mm	25mm	115mm	**FT8525711**	Price

Style - Ball Full					
Cutter Dia. (in.)	Shank (in.)	LOC (in.)	OAL (in.)	Order No.	Price
1/4	1/4	3/8	2-1/2	**FT8525712**	Price
1/4	1/4	1/2	3	**FT8525713**	Price
3/8	3/8	3/8	2-1/2	**FT8525714**	Price
3/8	3/8	3/4	4	**FT8525715**	Price
1/2	1/2	1/2	4	**FT8525716**	Price
1/2	1/2	1	4	**FT8525717**	Price

FULLERTON Solid Carbide Composite Routers



Series 5600

- Produces clean shearing of material's fibers and allows for aggressive removal rates
- Increased relief angles deliver results without tearing fibers and provides minimal delamination
- Right hand spiral, right hand cut
- Uncoated or FC-1 CVD diamond coating
- Shank diameter tolerance: +.0000 -.0005" / +0.000-0.013mm
- Cutter diameter tolerance: +.0000 -.0005" / +0.000-0.013mm

Style - Style A - No End Cut

Cutter Dia. (in.)	Shank (in.)	LOC (in.)	OAL (in.)	No. of Flutes	FC1 Order No.	FC1 Price	Uncoated Order No.	Uncoated Price
1/8	1/8	1/2	1-1/2	7	FT8525250	Price	FT8525200	Price
3/16	3/16	5/8	2	8	FT8525251	Price	FT8525201	Price
1/4	1/4	3/4	2-1/2	10	FT8525252	Price	FT8525202	Price
1/4	1/4	1	3	10	FT8525253	Price	FT8525203	Price
3/8	3/8	1	2-1/2	14	FT8525254	Price	FT8525204	Price
1/2	1/2	1	3	17	FT8525255	Price	FT8525205	Price

Style - Style C - End Mill Type End Cut

Cutter Dia. (in.)	Shank (in.)	LOC (in.)	OAL (in.)	No. of Flutes	FC1 Order No.	FC1 Price	Uncoated Order No.	Uncoated Price
1/8	1/8	1/2	1-1/2	7	FT8525262	Price	FT8525212	Price
3/16	3/16	5/8	2	8	FT8525263	Price	FT8525213	Price
1/4	1/4	3/4	2-1/2	10	FT8525264	Price	FT8525214	Price
1/4	1/4	1	3	10	FT8525265	Price	FT8525215	Price
3/8	3/8	1	2-1/2	14	FT8525266	Price	FT8525216	Price
1/2	1/2	1	3	17	FT8525267	Price	FT8525217	Price

Style - Style B - Burr Type End Cut

Cutter Dia. (in.)	Shank (in.)	LOC (in.)	OAL (in.)	No. of Flutes	FC1 Order No.	FC1 Price	Uncoated Order No.	Uncoated Price
1/8	1/8	1/2	1-1/2	7	FT8725256	Price	FT8725206	Price
3/16	3/16	5/8	2	8	FT8725257	Price	FT8725207	Price
1/4	1/4	3/4	2-1/2	10	FT8725258	Price	FT8725208	Price
1/4	1/4	1	3	10	FT8725259	Price	FT8725209	Price
3/8	3/8	1	2-1/2	14	FT8725260	Price	FT8725210	Price
1/2	1/2	1	3	17	FT8725261	Price	FT8725211	Price

Style - Style D - 135° Drill Point

Cutter Dia. (in.)	Shank (in.)	LOC (in.)	OAL (in.)	No. of Flutes	FC1 Order No.	FC1 Price	Uncoated Order No.	Uncoated Price
1/8	1/8	1/2	1-1/2	7	FT8725268	Price	FT8725218	Price
3/16	3/16	5/8	2	8	FT8725269	Price	FT8725219	Price
1/4	1/4	3/4	2-1/2	10	FT8725270	Price	FT8725220	Price
1/4	1/4	1	3	10	FT8725271	Price	FT8725221	Price
3/8	3/8	1	2-1/2	14	FT8725272	Price	FT8725222	Price
1/2	1/2	1	3	17	FT8725273	Price	FT8725223	Price

N Promo Set

- Deburrs: steel, aluminum and plastic.
- Includes: NogaGrip 2 handle, 10 Pcs. N1 blades



Order No.	Price
FN55NG8000	Price

N Cobalt Set

- Deburrs: plastic and hard materials
- Includes: NogaGrip 2 handle, 20 Pcs. N10 cobalt blades.



Order No.	Price
FN55NG8100	Price

N Tele Set

- Deburrs: steel, aluminum, plastic, brass and cast iron
- Includes: NogaGrip 3 handle, N holder, 5 Pcs. N1 blades, 5 Pcs. N2 blades



Order No.	Price
FN55NG8300	Price

S Promo Set

- Deburrs: steel, aluminum and plastic.
- Includes: NogaGrip 1 handle, 10 Pcs. S10 blades



Order No.	Price
FN55NG8150	Price

S Cobalt Set

- Deburrs: plastic and hard materials
- Includes: NogaGrip 1 handle, 20 Pcs. S100 cobalt blades



Order No.	Price
FN55NG8250	Price

S Tele Set

- Deburrs: steel, aluminum, plastic, brass and cast iron
- Includes: NogaGrip, 3 handle, S holder, 5 Pcs. S10 blades, 5 Pcs., S20 blades.



Order No.	Price
FN55NG8350	Price

Bronze Unikit

Most economical deburring kit for all machinists

- Includes: NogaGrip 3 handle, N holder, S holder, C holder + C20, D holder + D50, blades: N1, N2, S10, S20, S30 and S150



Order No.	Price
FN55NG9200	Price

Silver Unikit Set

Most suitable for MRO

- Includes: NogaGrip 3 handle & S holder, medium reversible countersink, plastic edge-off handle, 3.2mm RotoDrive countersink, 10.4mm RotoDrive countersink, 16.5mm RotoDrive countersink, 18mm external RotoDrive, blades: S10, S20 and S30



Order No.	Price
FN55NG9300	Price

Micro Deburring Set

Model FT3000

- Contains 3 micro tools, (1) micro deburring tool FT1000, (1) micro scraper FT1100 and (1) micro rotodrive countersink FT1200
- Ideal for tool and die maker
- For extra fine jobs
- Blades are not replaceable



Order No.	Price
FN55FT3000	Price

Gold Box Set

The most complete box for professional machinists

- Includes: NogaGrip 3 handle, adjustable scraper, plastic edge-off handle, S & C holders, C20 blade, D holder, D50 blade, K holder, N80K blade. PLUS N1, N2, S10, S20, S30, S150 blades, D66 and 10.4 countersinr RotoDrive and hex key (1.5mm)



Order No.	Price
FN55NG9400	Price

Platinum Box Set

Collected to meet the total requirements of tool and die makers and for deburring specialists



- Includes: Double Burr, NogaGrip 1 & 3 handles, Teddy Burr handle, S & N holders, K holder, N80K blade, D holder, D50 blade, D66 blade, C holder, C20 blade, T holder, T70 blade, 18mm external RotoDrive blade, 10.4mm countersink RotoDrive, blades: N1, N2, S10, S20, S30 and S150, hex key (1.5mm)

Order No.	Price
FN55NG9500	Price

Magic Burr 2

- Will do almost all of your deburring jobs
- Includes: NG-2 handle, N1 and N2 blades



Order No.	Price
FN55NG2002	Price

Magic Burr 3

- Will do almost all of your deburring jobs
- Includes: NG-1 handle, S10, S20 and S35 blades



Order No.	Price
FN55NG1003	Price

Magic Burr 4

- Same as NG2002 with extra blades for cross holes in difficult to reach more places
- Includes: NG-2 handle, N1, N2, N3 and N6 blades

Order No.	Price
FN55NG2004	Price

Magic Burr 5

- Same as NG1003 but with 2 extra blades
- Suitable for coarse to extra fine deburring operations
- Includes: NG-1 handle, S10, S20, S35, S101 and S202 blades

Order No.	Price
FN55NG1005	Price

Tele Burr

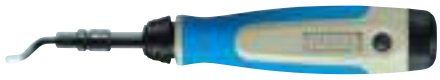
- Holds 2.6mm N blades
- Includes: NG-3 handle, N holder, N1 and N2 blades



Order No.	Price
FN55NG3002	Price

Super Burr

- For heavy duty jobs
- Includes: NG-3 handle, S holder, S100, S20 and S30 blades



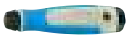
Order No.	Price
FN55NG3003	Price

Replacement Blades

Item	Description	Blade No.	Shaviv Equiva-lent	Order No.	1 pair	10 pair	100 pair
	Steel, Aluminum, Plastic, Cobalt	B10CO	-	FN55B10CO	Price	Price	Price
	Steel, Aluminum, Plastic	N1	B10	FN55N1	Price	Price	Price
	Steel, Aluminum, Plastic, Solid Carbide	N1C	B10C	FN55N1C	Price	Price	Price
	Steel, Aluminum, Plastic, Diamond Coated	N1D	-	FN55N1D	Price	Price	Price
	Steel, Aluminum, Plastic - Left Handed	N1LH	-	FN55N1LH	Price	Price	Price
	High Wear Materi-als, TiN Coated	N1TiN	B10P	FN55N1TIN	Price	Price	Price
	Brass, Cast Iron	N2	B20	FN55N2	Price	Price	Price
	Brass, Cast Iron	N2C	B20C	FN55N2C	Price	Price	Price
	Remove External & Internal Burrs	N3	B30	FN55N3	Price	Price	Price
	Inside Cross Holes and Back Side of Walls	N6	B60	FN55N6	Price	Price	Price
	Steel, Aluminum, Plastic	S10	E100	FN55S10	Price	Price	Price
	Stainless Steel	S100	-	FN55S100	Price	Price	Price

Item	Description	Blade No.	Shaviv Equiva-lent	Order No.	1 pair	10 pair	100 pair
	Small Holes	S101	-	FN55S101	Price	Price	Price
	Small Holes - Left Handed	S101LH	-	FN55S101LH	Price	Price	Price
	Steel, Aluminum, Plastic, Diamond Coated	S10D	-	FN55S10D	Price	Price	Price
	Steel, Aluminum, Plastic - Left Handed	S10LH	-	FN55S10LH	Price	Price	Price
	High Wear Materi-als, TiN Coated	S10TiN	E100P	FN55S10TIN	Price	Price	Price
	Very Small Holes	S150	-	FN55S150	Price	Price	Price
	Very Small Holes, TiN Coated	S150-TiN	-	FN55BK3112	Price	Price	Price
	Brass, Cast Iron	S20	E200	FN55S20	Price	Price	Price
	Fine Point for Brass + Cast Iron	S202	-	FN55S202	Price	Price	Price
	Remove External & Internal Burrs	S30	E300	FN55S30	Price	Price	Price
	For Straight Edges	S35	E350	FN55S35	Price	Price	Price
	Inside Cross Holes and Back Side of Walls	S60	E600	FN55S60	Price	Price	Price

NG Handles & S & N Holders

Item	Holds	Type	Order No.	Price
	N Blades	N Blade Holder	**FN55EL01003**	Price
	N Blades	NG-2 Handle	**FN55NG2000**	Price
	S Blades	S Blade Holder	**FN55EL02003**	Price
	S Blades	NG-1 Handle	**FN55NG1000**	Price
	All Blade Holders	NG-3 Handle	**FN55NG3000**	Price

Countersink

- Standard tool for countersinking
- Useful for chamfering deep holes
- Includes: NG-3 handle, C holder and C20 countersink (20mm)



Order No.	Price
FN55NG3100	Price

Countersink "C" holder

Item	For Use With	Order No.	Price
	C Blades	**FN55EL03003**	Price

Countersink Blades

Item	Blade No.	Deburring Application	Shaviv Equivalent	Order No.	Price
	C12	1/2 Countersink for Chamfering Deep Holes	F12	**FN55C12**	Price
	C20	3/4 Countersink for Chamfering Deep Holes	F20	**FN55C20**	Price
	C20-TiN	3/4 Countersink for Chamfering Deep Holes	F20-TiN	**FN55BC2012**	Price
	C30	1-1/4 Countersink for Chamfering Deep Holes	F30	**FN55C30**	Price

Rotodrive Blades

Item	Blade No.	Deburring Application	Order No.	Price
	RD03.2	3.2mm RotoDrive for Chamfering	**FN55BC3201**	Price
	RD06.3	6.3mm RotoDrive for Chamfering	**FN55BC6301**	Price
	RD08.3	8.3mm RotoDrive for Chamfering	**FN55BC8301**	Price
	RD10.4	10.4mm RotoDrive for Chamfering	**FN55BC1041**	Price
	RD16.5	16.5mm RotoDrive for Chamfering	**FN55BC1651**	Price

H.D. Rotodrive

- 40mm displacement allows for heavy duty burrs to be removed
- Continuous rotation of countersink enables very fast chamfering
- Includes: NG-3 handle, heavy duty cranked RotoDrive holder and C20 countersink





Order No.	Price
FN55NG3400	Price

Rotodrive

- Quickest way to chamfer by hand
- Single flute countersink provides a smoother cut
- Includes: NG-1 handle and RD10.4 RotoDrive countersink



Order No.	Price
FN55NG1200	Price

Universal Handy Chuck Holder

Model PV1000

- Aluminum handle with non-slip covering
- 3-Jaw chuck helps with the quick and secure clamping of a wide variety of tools. blades and blade holders such as scrapers, countersinks, files, etc.
- Hardness 58 HrC



Order No.	Price
FN55PV1000	Price

Ext. Rotodrive

- Chamfers the OD on bars and tubes
- Quickest way to chamfer OD on almost all materials
- Range: 4-18mm
- Includes: NG-1 handle and external RotoDrive EX18 countersink



Order No.	Price
FN55NG1700	Price

H.D. Ext. Rotodrive

- Chamfers the OD on bars and tubes
- Range: 4-28mm
- Includes: NG-3 handle, heavy duty external RotoDrive holder, and EX28 countersink



Order No.	Price
FN55NG3500	Price

H.D. Ext. Rotodrive Replacement Holder

- Heavy duty cranked holder
- Accepts EX28 external countersink
- 40mm displacement



Order No.	Price
FN55EL0902	Price

Ext.& H.D. Ext. Rotodrive Blades

Item	Blade No.	Deburring Application	Order No.	Price
	EX18	Chamfering the O.D on Bars and Tubes	**FN55EX2001**	Price
	EX28	Chamfering the O.D on Bars and Tubes	**FN55EX3001**	Price

Reversible Countersinks

- RC1000 - very fine tool for deburring both back side and front side of holes. Unique 2 pairs of cutting edges. Cuts in both clockwise and anti clockwise directions.
- RC2000 - similar to RC1000 only larger
- RC2200 - similar to RC2000 only larger



Range	Set Includes	Type	Order No.	Price
3-5.5mm	Steel Handle / R1 Blade	Mini-Reversible Set	**FN55RC1000**	Price
5-10mm	Steel Handle / R2 Blade	Medium-Reversible Set	**FN55RC2000**	Price
10-22mm	Steel Handle / R3 Blade	Large-Reversible Set	**FN55RC2200**	Price
3.5 - 22mm	Set of all 3	Mini, Medium, Large	**FN55RC3300**	Price

Mini, Medium & Large Reversible Blades

Item	Blade No.	Deburring Application	Order No.	Price
	R1	5.5mm Mini-Revisible	**FN55BR1001**	Price
	R2	10mm Medium Reversible	**FN55BR2001**	Price
	R3	Chamfering the O.D on Bars and Tubes	**FN55BR3001**	Price

Non-Scratch Deburring Blade

- Integrated plastic safety cap protects from scratches
- The plastic cap cannot be removed
- Works best on steel, aluminum and plastic
- HSS, hardness 62-64 RC
- Fits FN55NG1000 NG-1 handle or FN55PV1000 universal chuck holder
- Included angle 40 degrees



Order No.	Price
FN55BS91111	Price

Double Burr

- Simultaneously removes burrs from both sides of sheet metal
- DB handle with safety guard to protect your hand
- Range: 0-12mm. For corners, use one blade only
- Includes: DB handle, hand guard and two N80 blades



Order No.	Price
FN55DB1000	Price

Double Burr Blades

Item	Blade No.	Deburring Application	Order No.	Price
	N80	Removes Burrs from Both Sides of Sheet Metal	FN55N80	Price
	N80-M42	Removes Burrs from Both Sides of Sheet Metal	FN55N80M42	Price

007

- Deburring, cleaning, finishing and countersinking
- Includes: RB handle, o-ring blade, RD16.5 RotoDrive countersink, EX18 External RotoDrive countersink, thread cleaner blade, S100 blade, S150 blade



Order No.	Price
FN55007	Price

Plastic Edge Off Set

- The most economical set
- Includes: EO handle + S10 blade, green sleeve (for aluminum), EO handle + S20 blade, red sleeve (for brass & cast iron), EO handle + S100 blade, blue sleeve (for steel), EO handle + S150 blade, yellow sleeve (for plastic)



Order No.	Price
FN55EO2100	Price

MultiBurr

- A handy universal deburring set with multi-purpose blades
- Has 4 folding shafts that lock into position while working and folding back into the handle allowing the tool to be carried anywhere

Includes 1 of each:

- S10 blade - best on steel, aluminum and plastic
- D50 scraper blade-ideal for tool and die makers
- N2 blade - best on brass and cast iron
- BC1041 Rotodrive countersink blade - 90° angle (patented)



Order No.	Price
FN55RG1000	Price

Teddyburr

- Designed for hard to reach locations
- Holds 2.6mm blades
- Includes: 8mm painted hexagonal aluminum handle and N1 blade





Order No.	Price
FN55TB1000	Price

O-Ring Burr

- Removes burrs from internal O-ring grooves
- Range: 0-3mm (groove width)
- Includes: NG-1 handle and O-ring blade.



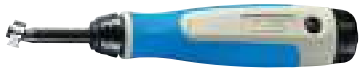
Order No.	Price
FN55NG1100	Price

O-Ring Burr Blades

Item	Blade No.	Deburring Application	Order No.	Price
	O-Ring	For Internal O-Ring Grooves	FN55BO1001	Price

Keyway Burr

- Effectively removes burrs from internal and external keyways
- Range: 2.4-11mm
- Includes: NG-3 handle, K holder and N80K blade



Order No.	Price
FN55NG3300	Price

K Holder

- Holds K blades with M3 screw
- Length: 135mm



Order No.	Price
FN55EL04003	Price

Keyway Burr Blades

Item	Blade No.	Deburring Application	Order No.	Price
	N70K	For Internal and External Keyways (2.8mm)	FN55N70	Price
	N80K	For Internal and External Keyways (11mm)	FN55N80K	Price
	N80K-M42	For Internal and External Keyways (11mm)	FN55N80KM42	Price
	N90K	For Internal and External Keyways (15mm)	FN55N90K	Price

Edge Off

- Disposable tool
- A handy pocket clip is a standard feature of this tool.
- Includes: S10 blade mounted in an 8mm painted hexagonal aluminum handle





Order No.	Price
FN55EO1000	Price

Rapid Burr

- Steel housing for long life of handle.
- Blade is replaceable. Includes:
- 12mm hexagonal painted handle and S10 blade





Order No.	Price
FN55RB1000	Price

Soft Cut Tool

- Ideal for deburring soft abrasive plastic
- Comes with handle and 65° blade



Description	Order No.	Price
Handle with 65° Blade	FN55NC5100	Price
Handle Only	FN55NC5000	Price
Blade Only 65°	FN55CR6000	Price

Liza Burr



Includes: UNI-Handle, SN-Holder, N1 & N2 blades

- Designed to accommodate both light duty “N” series blades and heavy duty “S” series blades in its unique double sided blade holder
- Blade holder telescopes from 20-94mm with “N” blades. 20-110mm with “S” blades
- Blades are stored inside the handle



Order No.	Price
FN55LB1000	Price

Scraper

Great for deburring larger sized tubing.

- Includes: Uni-handle, double end triangular scraper T120
- Has two sharp triangular ends for double tool life





Deburring Application	Order No.	Price
Scraping, Trimming, Deburring	**FN55SC1000**	Price
Scraper Blade for SC Holder (120mm)	**FN55T120**	Price

YT1200 Scraper



- Ideal for scraping, trimming and deburring almost all materials
- Includes: YT1000 handle and T80 double ended triangular scraper

Description	Order No.	Price
YT1200 Adjustable Scraper	**FN55YT1200**	Price
T80 Triangular Replacement Blade	**FN55T80**	Price

Adjustable Scraper



- Ideal for scraping, trimming and deburring almost all materials
- Includes: 12mm anodized handle and T80 double ended triangular scraper



Deburring Application	Order No.	Price
Scraping, Trimming, Deburring	**FN55SC8000**	Price
Scraper Blade for SC Holder (80mm)	**FN55T80**	Price

Ceramic Convexed Cera-Cut & Blades

- Ideal for all plastic materials, soft metals, surface scraping and parting line deflashing
- Blade can be replaced
- Includes: Cera-Cut handle and 250mm convexed radius blade



Description	Order No.	Price
Holder and Convexed Blade	**FN55CR2000**	Price
Convex Blade Only	**FN55CR2200**	Price
Concave Blade Only	**FN55CR2500**	Price

Mini Ceramic Handle and Convexed Blade

Model CR1500



- Ideal for surface scraping and parting line deflashing
- Perfect for plastic materials and soft metals

Order No.	Price
FN55CR1500	Price

Mini Scraper



- Ideal for tool and die makers
- Includes: NG-3 handle, D holder, (an M3 setscrew is holding the blade) triangular mini scraper D50 blade and hex key



Order No.	Price
FN55NG3700	Price

Internal Scraper



- Ideal for cross-holes deburring
- Includes: NG-3 handle, D holder and Internal scraper



Order No.	Price
FN55NG3710	Price

D Holder



- D holder is designed to hold D50 and D66 blades
- A 3mm setscrew is holding the blade

Order No.	Price
FN55EL05003	Price

D Blades

Item	Blade No.	Deburring Application	Order No.	Price
	D50-TiN	Tool and Die Makers	**FN55BD5012**	Price
	D50	Tool and Die Makers	**FN55D50**	Price
	D55	Tool and Die Makers	**FN55D55**	Price
	D66	Cross-Hole Deburring	**FN55D66**	Price
	D75	Scraper Blade	**FN55D75**	Price
	D77	Scraper Blade	**FN55D77**	Price

SC Holder



- 12mm Anodized handle
- Knurled locking collar to control blade extension
- Holds: D50, D66, D75, D77 and T80 scrapers

Order No.	Price
FN55SC1300	Price

Ceramic Double Burr



- Ideal for deburring both sides of a workpiece simultaneously
- Blade can be replaced
- Includes: V-shaped ceramic blade mounted in ergonomically designed DB handle with safety guard to protect your hand

Order No.	Price
FN55DB5000	Price

V-Shaped Blade For Ceramic Double Burr



• Removes burrs from both sides simultaneously

Order No.	Price
FN55CR5100	Price

Adjustable Ceramic Mini Scraper

Model CR4100



- Ideal for surface cleaning, trimming, deburring and parting line deflashing of almost all plastics
- Special blade design for safety

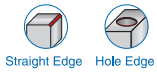
Order No.	Price
FN55CR4100	Price

SHAVIV Set B — Deburring Sets

The Workhorse

- Popular set for holes, slots & edges
- Supports all B blades
- Blades can be inserted axially or perpendicular to holder
- Deburrs steel, aluminum copper, brass, cast iron and plastics






Set B with Classic Handle


Set B with Aluminum Handle


Set B with Mango II Handle

Blades





Set Includes	Order No.	Price
Aluminum Handle / B10, B20 Blades	**FN50BAL**	Price
Mango II Handle / B10, B20	**FN50BMAN2**	Price
Plastic Handle / B10, B20 Blades	**FN50B**	Price

SHAVIV Set E — Deburring Sets

Heavy DeBurr

- Rugged deburring set for heavy-duty deburring of holes, slots and edges
- Supports all E blades
- Deburrs steel, aluminum copper, brass, cast iron and plastics





Blades

Plastic Handle / E100, E200, E300 Blades




Set E with Mango II Handle


Set E with Classic Handle

Set Includes	Order No.	Price
Mango II Handle / E100, E200, E300	**FN50EMAN2**	Price
Plastic Handle / E100, E200, E300 Blades	**FN50E**	Price

SHAVIV Replacement Blades — Style B

Item	Description	Noga Equiv.	Blade No.	Order No.	1-9 Price	10-99 Price	100+ Price
	The basic HSS blade used for steel & aluminum with special nose for the worker's protection	N1	B10	**FN50B10**	Price	Price	Price
	Solid carbide blade similar to B10, for extra hard applications	N1C	B10C	**FN50B10C**	Price	Price	Price
	Same as B10 blade with TiN coating for extended life when deburring exotic & abrasive materials	N1TiN	B10P	**FN50B10P**	Price	Price	Price
	Excellent for aluminum, plastics & copper. Can deburr a min. hole diameter of 2mm	-	B11	**FN50B11**	Price	Price	Price
	The basic HSS blade used for plastics	N1	B12	**FN50B12**	Price	Price	Price
	This HSS blade is used for brass & cast iron, it can rotate clockwise & counter-clockwise	N2	B20	**FN50B20**	Price	Price	Price
	Solid carbide blade similar to B20, for extra hard applications	N2C	B20C	**FN50B20C**	Price	Price	Price
	Same as B20 blade with TiN coating for extended life when deburring exotic and abrasive materials	-	B20P	**FN50B20P**	Price	Price	Price
	Same as B20 blade, used for plastics	N2	B25	**FN50B25**	Price	Price	Price
	Removes external & internal burrs simultaneously from holes drilled into tubing & sheet metal	N3	B30	**FN50B30**	Price	Price	Price
	Same as B30 except for brass and cast iron	-	B32	**FN50B32**	Price	Price	Price
	Scriber, carbide tipped. Can be reground many times. To remove from holder, just pull out	-	B50	**FN50B50**	Price	Price	Price
	HSS internal deburring blade. Facilitates deburring in the most inaccessible locations	N6	B60	**FN50B60**	Price	Price	Price
	Carbide tipped deburring blade for sheet-metal up to 3mm (1/8") thickness	-	B70	**FN50B70**	Price	Price	Price

SHAVIV Replacement Blades — Style E

Item	Description	Noga Equiv.	Blade No.	Order No.	1-9 Price	10-99 Price	100+ Price
	The basic blade used for steel & aluminum	S10	E100	**FN50E100**	Price	Price	Price
	ame as E100 blade with TiN coating for extended life when deburring exotic & abrasive materials	S10TiN	E100P	**FN50E100P**	Price	Price	Price
	Solid carbide blade similar to E100, for extra hard applications	-	E100C	**FN50E100C**	Price	Price	Price
	Heavy duty blade for steel & aluminum with special design for versatility	S101	E110	**FN50E110**	Price	Price	Price
	Excellent for aluminum, plastic & copper. Can deburr a minimum hole dia. of 1.5mm	-	E111	**FN50E111**	Price	Price	Price
	Used for brass & cast iron. Can rotate clockwise & counter-clockwise	S20	E200	**FN50E200**	Price	Price	Price
	Same as E200 blade with TiN coating for extended life when deburring exotic & abrasive materials	-	E200P	**FN50E200P**	Price	Price	Price
	Solid carbide blade similar to E200, for extra hard applications	-	E200C	**FN50E200C**	Price	Price	Price
	Removes external & internal burrs simultaneously from holes drilled into tubing and sheet metal	S30	E300	**FN50E300**	Price	Price	Price
	Same as E300 exceept for brass & cast iron	-	E320	**FN50E320**	Price	Price	Price
	Expecially handy for straigh edges, keyways, etc.	S35	E350	**FN50E350**	Price	Price	Price
	Heavy duty HSS internal blade. Facilitates deburring in the most inaccessible locations	S60	E600	**FN50E600**	Price	Price	Price
	Ideal for removing burrs from plastic workpieces	-	E700	**FN50E700**	Price	Price	Price

Holders for Styles B & E

Item	B Holder	Order No.	Price
	B Blade Holder	**FN50BHB**	Price

Item	E Holder	Order No.	Price
	E Blade Holder	**FN50BHE**	Price

Mango Click Set E

For Heavy Duty E Blades

- Contains Mango Click n' Go handle, and (12) E-100 heavy-duty blades
- For deburring materials with spiral chips, such as aluminum, steel, copper, and plastic







Order No.	Price
FN50MCE	Price

Set C Scraping Kit

- Features triangular blades with 3 cutting edges for high quality finishing & scraping
- The telescopic blade holder lets you get to difficult-to-reach areas
- Includes key for safely removing blades





Order No.	Price
FN50C	Price

Triangular HSS Scraper Blades

Style C

Precision ground after hardening.

Item	Deburring Application	Order No.	Price
	Large Triangular Scraper (8mm)	FN50C42	Price
	Small Triangular Scraper (4mm) for Delicate Precision Work	FN50C40	Price

MB-2000 Deburring Tool

- Includes: 1 Pc. E-100 blade
- Steel collar for long life
- Accepts all "E" style blades
- Easy blade change–depress collar and switch blades



Order No.	Price
FN50MB2000	Price

Ceramix Set Q10

- Heavy duty handle with Ceramix Q10 blade
- Adjust the cutting angle between the blade and the material for best results and prevent scratches
- Flip blade for 2 types of jobs







Order No.	Price
FN50Q10	Price

The Original Heavy Duty Deburring Tool

- Offers the best solution for heavy-duty, straightforward and hole deburring
- Includes 1 handle (without extension), and 1 blade each: E100, E200, E300



Order No.	Price
FN50PBB1	Price

Set HC Handy Chuck

- Delivers pin vise versatility for finishing & scraping applications
- Used for gripping miniature files, drills, reamers, taps, wires, countersinks, and other small objects- .04" - .32" (1-8mm) in diameter
- Handy for assembling electronic components and watch repair
- Deburrs steel, aluminum, copper, brass, cast iron, stainless steel, and plastics



Includes	Order No.	Price
Double Sided .19" Blade	FN50HC6	Price
Double Sided .30" Blade	FN50HC5	Price

Replacement Scraper Blades

For Set HC

Item	Blade Size	Order No.	Price
	Scraper Blade .19"	FN50C60	Price
	Scraper Blade .30"	FN50C50	Price

Replacement Handy Chuck

- Delivers pin vise versatility for finishing & scraping applications
- Used for gripping miniature files, drills, reamers, taps, wires, countersinks, and other small objects- .04" - .32" (1-8mm) in diameter
- Handy for assembling electronic components and watch repair



Order No.	Price
FN50HC1	Price

Handguard

- Stainless steel protection
- Fits All SHAVIV blade holders
- Slides to position and locks where convenient



Recommended Especially for Sets D, G.

Order No.	Price
FN503G	Price

Handguard Shown with Set D (not included)

Replacement Handle

- Fits all Shaviv blade holders
- Includes convenient blade storage compartment in handle

Item	Type	Order No.	Price
	Plastic Replacement Handle	FN50HA	Price
	Mango Replacement Handle	FN50HM	Price
	Aluminum Replacement Handle with sure grip surface for heavy duty use and long term performance	FN50HAL	Price

SHAVIV Set D The Sheet Cleaner

- Perfect for sheet metal from .02” to .16” thick (.5mm- 4mm)
- Blades deburr both sides of sheet in one pass
- For added safety, use with handguard
- Deburrs steel, aluminum copper, brass, cast iron, stainless steel, hardened steel, and plastics



Order No.	Price
FN50D	Price

SHAVIV Set G Slot Edge Cleaner

- Ideal for deburring and cleaning edges of internal & external keyways and slots up to .6” (15mm) wide
- Blade features 8 cutting edges
- Deburrs steel, aluminum copper, brass, cast iron, stainless steel, and plastics



Order No.	Price
FN50G	Price

SHAVIV Blades

For Sets D, G3, G

Blade Holder - D				
Item	Deburring Application	Material	Order No.	Price
	6 cutting edges for deburring sheet metal up to 1/8" thick plus 6 edges for flat scraping	Carbide	FN50D80	Price
	Deburring sheet metal up to 5/16" thick	Carbide - HD	FN50D82	Price
	6 cutting edges with unique chip breaker for deburring sheet metal up to 9/32" thick (Requires D5 Holder)	High Speed Steel	FN50D85	Price

Blade Holder - G				
Item	Deburring Application	Material	Order No.	Price
	Large Keyways up to .6" Wide	High Speed Steel	FN50G10	Price
	Small Keyways up to .4" Wide	High Speed Steel	FN50G20	Price
	Very Narrow Slots up to .08" Wide	Carbide	FN50G40C	Price

Blade Holder - G3				
Item	Deburring Application	Material	Order No.	Price
	3 cutting corners for extended life	High Speed Steel	FN50G30	Price

SHAVIV Blade Holders

For Sets D, G3, G, F, FR

Item	Description	Order No.	Price
	D Blade Holder	FN50BHD	Price
	D5 Blade Holder	FN50BHD5	Price
	F Blade Holder	FN50BHF	Price
	FR Ratchet Holder	FN50BHFR	Price
	G Blade Holder	FN50BHG	Price
	G3 Blade Holder	FN50BHG3	Price

SHAVIV G3 Triple Corner Cleaner

- Cleans corners & removes rough edges after machining to ensure smooth flush mating of adjoining faces
- Special angled blade holder enables easy access to work area
- Blade feature 3 cutting corners
- Deburrs steel, aluminum copper, brass, cast iron, stainless steel, and plastics



Order No.	Price
FN50G3	Price

SHAVIV Set F & FR Countersink Kits

- Deburrs steel, aluminum copper, brass, cast iron, stainless steel, and plastics





Description	Order No.	Price
Features Ratchet Holder, ideal for rotational chamfering	FN50FR	Price
With Standard Holder, powerful tool, excellent for chamfering & countersinking	FN50F	Price

SHAVIV Countersinks

For Kits F & FR

Item	Deburring Application	Order No.	Price
	Countersink 1/2" Diameter	FN50F12	Price
	Countersink 3/4" Diameter	FN50F20	Price
	Countersink 1-1/4" Diameter	FN50F30	Price

SHAVIV Burr-Bi

For Deburring of Heavy Duty Materials

The two-insert tool for double-edge deburring on heavy duty materials. Stays sharper longer! Can be used repeatedly. Supplied with a built-in handguard for worker safety. For all thicknesses up to 14mm (.56”).

Set contains:

- Blade holder Burr-Bi
- 2 universal blades R10
- Handle A and key
- Blades can be positioned in 2 ways



Description	Order No.	Price
Burr-Bi Guard	FN503LBR	Price
Burr-Bi Set	FN503SBRKI	Price

SHAVIV Burr-Bi Blades

Item	Deburring Application	Order No.	Price
	Double Edged for Massive Deburring of Steel, Aluminum, Stainless Steel, Hard Metals	FN50R20	Price
	Double Edged Square Blade for Hard Material w/ Spiral Chips: Single Straight Edge- aluminum, brass, hard metal and stainless steel Double Straight Edges- steel, aluminum, hard metal and stainless steel (up to 16mm/.63" thick)	FN50R30	Price
	Double Sided Round Blade with unique cutting angle: Side A- steel, aluminum, stainless steel and hard metals Side B- brass and plastics	FN50R10	Price

Kit Mango KWC

The Universal Box

Excellent all-around deburring kit for your workshop. You get all the tools you need for 1000+ applications.



Kit Contains:
- Mango handle
- Mango adapter B and adapter E
- Holder – B, C, D, E & F
- Blades – B10, B20, B30, B50, B60, B70, C40, C42, D80, E100, E200, E300, E350, E600 & F20

Order No.	Price
FN50KWCM	Price

Kit Classic KWC

The Universal Box - Wood Case

Excellent all-around deburring kit for your workshop. You get all the tools you need for 1000+ applications.



Kit Contains:
- Classic handle A
- Holder – B, C, D, E & F
- Blades – B10, B20, B30, B50, B60, B70, C40, C42, D80, E100, E200, E300, E350, E600 & F20

Order No.	Price
FN50KWC	Price

Glo-Burr B & E Rainbow

Series Set

- 4 popular, easy-to-grip deburring tools
- Strong, yet lightweight
- Features a convenient pocket clip and blade storage
- Glo-Burr B supplied with B10, B20, B30, B11 blades
- Glo-Burr E supplied with E100, E200, E300 & E111 blades
- Holds other popular B or E blades



Type	Order No.	Price
Glo-Burr B Rainbow Set	**FN50GB4B**	Price
Glo-Burr E Rainbow Set	**FN50GB4E**	Price

Glo-Burr B & E

Plus 20 Cobalt Blades



Includes:
- 2 Slim grip Glo-Burr tools for light & heavy deburring
- 10 B10S cobalt blades
- 10 E100S cobalt blades

Order No.	Price
FN50GB20BE	Price

Kit Classic KWC

The Universal Box
Plastic Case

Excellent all-around deburring kit for your workshop. You get all the tools you need for 1000+ applications.



Kit Contains:
- Classic handle A
- Holder – B, C, D, E & F
- Blades – B10, B20, B30, B50, B60, B70, C40, C42, D80, E100, E200, E300, E350, E600 & F20

Order No.	Price
FN50KWCP	Price

Scrape-Burr 40

The All-Purpose Scraper

- An all-purpose standard scraper that features a heavy-duty triangular blade with 3 cutting edges for a high quality finishing and scraping



Order No.	Price
FN5090078	Price

Scrape-Burr 42

The Heavy Duty Scraper

- Features a high-duty triangular blade with 3 cutting edges for a high quality finishes and scraping



Order No.	Price
FN5090079	Price

Scrape-Burr 400

The Fine Finish Scraper

- This mini-tool delivers a fine finish to precision work pieces
- Features extra-thin, heavy duty triangular blade with 3 cutting edges for high quality and accurate finishing and scraping



Order No.	Price
FN5090080	Price

Throwaway Deburring Tools

A handy tool to clip to your pocket and carry around with you. Available with the standard B10 blade for lighter jobs or with the heavy duty E100 blades for tougher jobs.



Application	Set Includes	Order No.	Price
Heavy Duty Deburring	Hexagonal Handle / E100 Blade	**FN50VB1**	Price
Light Duty Deburring	Hexagonal Handle / B10 Blade	**FN50VB2**	Price

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