CATÁLOGO 2026

CORTECH
Creando Soluciones

# Sujeción

*Firmeza y repetibilidad en centros de maquinado y tornos.*



Todo para sujetar la pieza y la herramienta: prensas, chucks, boquillas, porta brocas, holders e imanes. Una buena sujeción es la base de la precisión y de la vida de la herramienta.

### Prensas
Prensas de precisión para centros de maquinado y taladros.

### Boquillas
Boquillas ER y otros sistemas para sujeción concéntrica.

### Porta brocas
Mandriles con y sin llave para taladros y máquinas.

### Chucks
Chucks de torno de 3 y 4 mordazas.

### Imanes
Bases y platos magnéticos.

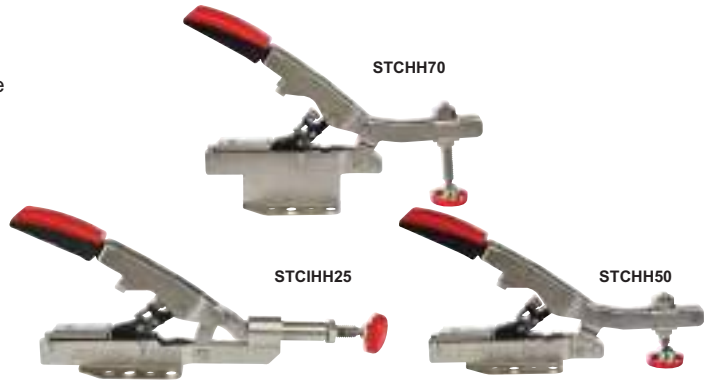
### Holders
Portaherramientas CAT, BT y HSK para centros de maquinado.

## MARCAS EN ESTA LÍNEA

TMX PRECISIÓN Y CALIDAD EUROPEA · HBM · DORIAN INTERNATIONAL TOOL

## Auto-Adjust Toggle Clamps

- Auto-Adjust Toggle Clamp automatically adjusts to variations in work piece dimensions while maintaining constant clamping force
- Removable non-marring plastic cap is included on the 7/8" diameter pads.
- **Adjustable Clamping Force:** The integrated clamping force adjustment screw can be used to create an actually applied clamping force from 25 to 550 lbs. (max holding capacity 700 lbs.) One BESSEY® Auto-Adjust Toggle Clamp can replace a range of competitive clamps.
- **Adaptable Base Plate:** The large (2 1/4" x 2 1/2") flanged base is designed for use with 1/4" or M6 fasteners. Mounting holes are sized & spaced for easy mounting and versatility.
- **Extra large handle:** The large 1" x 2-1/8" handle offers greater user comfort and ease of operation




| Model No. | Style | Bar Style | OAL Height (in.) | OAL (in.) | Spindle Size | Order No. | Price |
|---|---|---|---|---|---|---|---|
| STCHH20 | Horizontal | U-Shape | 1.73 | 6.57 | 1.65 | **SG75STCHH20** | Price |
| STCHV20 | Horizontal | U-Shape | 1.85 | 6.57 | 1.97 | **SG75STCHV20** | Price |
| STCHA20 | Horizontal | U-Shape | 2.52 | 6.57 | 2.68 | **SG75STCHA20** | Price |
| STCIHH15 | Inline | Solid base | 1.26 | 7.13 | NA | **SG75STCIHH15** | Price |
| STCIHA15 | Inline | Solid base | 1.81 | 7.13 | NA | **SG75STCIHA15** | Price |
| STCVH20 | Vertical | U-Shape | 5.08 | 3.62 | 1.65 | **SG75STCVH20** | Price |
| STCVH50 | Vertical | U-Shape | 6.38 | 4.57 | 1.97 | **SG75STCVH50** | Price |
| STCHH50 | Horizontal | U-Shape | 1.79 | 8.35 | M8 | **SG75STCHH50** | Price |
| STCHH70 | Horizontal | U-Shape | 2.50 | 8.35 | M8 | **SG75STCHH70** | Price |
| STCIHH25 | Inline | Inline | 1.80 | 9.39 | M8 | **SG75STCIHH25** | Price |

## Vertical Hold Down Toggle Clamps Flanged Base Type

**Features:**

- High strength forged clamping arm for heavy-duty service
- Hardened steel pivot pins and bushings provide long life
- Black oxide finish
- Large clearance under the clamping bar
- Model No. with "R" have De-Sta-Co toggle lock plus



| Model No. | Mounting Length (in.) | Base Length (in.) | OAL Width (in.) | Ht. Under Clamp Arm (in.) | Mount Dia. (in.) | OAL Height (in.) | OAL (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 5105 | 1.00 | 1.62 | 2.24 | 2.54 | .26 | 6.54 | 4.13 | **MA455105** | Price |
| 5105R | 1.00 | 1.62 | 2.24 | 2.54 | .26 | 6.54 | 4.13 | **MA455105R** | Price |
| 5110 | 1.50 | 2.50 | 2.76 | 3.37 | .35 | 8.70 | 6.33 | **MA455110** | Price |
| 5110R | 1.50 | 2.50 | 2.76 | 3.37 | .35 | 8.70 | 6.33 | **MA455110R** | Price |

## Vertical Hold Down Toggle Clamps Solid Base Type

**Features:**

- High strength forged clamping arm for heavy-duty service
- Hardened steel pivot pins and bushings provide long life
- Black oxide finish
- Large clearance under the clamping bar



| Model No. | Base Width (in.) | Surface From Surface to Clamp Point (in.) | OAL Height (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 5105B | .98 | 2.14 | 6.14 | **MA455105B** | Price |
| 5110B | 1.26 | 3.05 | 8.39 | **MA455110B** | Price |

## Straight Line Action Clamps Solid Base Type

**Features:**

- Reverse action allows the handle to stay out of the work zone
- Hardened steel pivot pins and bushings provide long life
- Black oxide finish with hardened plungers
- 5150 Series - Square plunger provides positive radial location



| Model No. | Base Width (in.) | Plunger Ht. (in.) | Plunger Dia. (in.) | OAL Height (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 5130B | 1.87 | 1.14 | .75 | 3.40 | **MA455130B** | Price |
| 5131B | 1.14 | .87 | .51 | 2.25 | **MA455131B** | Price |
| 5133B | 1.57 | 1.14 | .75 | 3.60 | **MA455133B** | Price |
| 5150B | 1.54 | 1.14 | .75 | 3.40 | **MA455150B** | Price |

## DE-STA-CO Straight Line Action Clamps
## Flanged Base Type



**Features:**
- Reverse action allows the handle to stay out of the work zone
- Hardened steel pivot pins and bushings provide long life
- Black oxide finish with hardened plungers
- 5150 Series - Square plunger provides positive radial location

| Model No. | Mounting Length (in.) | Moutning Width (in.) | OAL Width (in.) | Distance from Surface to Plunger (in.) | Mount Dia. (in.) | Plunger Dia. (in.) | OAL Ht. (in.) | OAL Length (in.) | Plunger Length (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5130 | 1.75 | 2.31 | 2.99 | 1.38 | .41 | .75 | 2.49 | 11.14 | 1.96 | **MA455130** | Price |
| 5131 | 1.13 | 1.87 | 2.52 | 1.10 | .34 | .51 | 2.49 | 7.61 | 1.15 | **MA455131** | Price |
| 5133 | 1.75 | 2.31 | 2.99 | 1.38 | .41 | .75 | 3.84 | 13.05 | 3.24 | **MA455133** | Price |
| 5150 | 1.75 | 2.31 | 2.99 | 1.57 | .41 | .75 | 3.63 | 11.23 | 1.96 | **MA455150** | Price |

## DE-STA-CO Horizontal Hold Down Clamps
## Flanged Base Type



**Features:**
- Solid clamping arm may be modified to suit requirements
- Hardened steel pivot pins and bushings provide long life
- Black oxide finish
- Model No. with “R” have De-Sta-Co toggle lock plus

| Model No. | Mounting Length (in.) | Base Length (in.) | Clamp Arm Length (in.) | Base Width (in.) | OAl Width (in.) | Mount Dia. (in.) | OAL Height (in.) | OAL (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| 5305 | 2.50 | 3.15 | 2.12 | .98 | .98 | .35 | 1.51 | 8.36 | **MA455305** | Price |
| 5305R | 2.50 | 3.15 | 2.12 | .98 | 1.84 | .35 | 1.51 | 8.36 | **MA455305R** | Price |
| 5310 | 3.63 | 4.63 | 2.63 | 1.50 | 1.50 | .41 | 2.00 | 11.13 | **MA455310** | Price |
| 5310R | 3.63 | 4.63 | 2.63 | 1.50 | 2.31 | .41 | 2.00 | 11.13 | **MA455310R** | Price |

## DE-STA-CO Horizontal Hold Down Clamps
## Solid Base Type

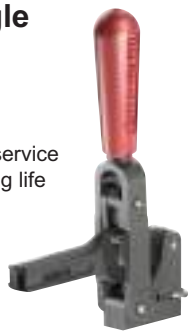
**Features:**
- Solid clamping arm may be modified to suit requirements
- Hardened steel pivot pins and bushings provide long life
- Black oxide finish



| Model No. | OAL Width (in.) | Ht. Under Clamp Arm (in.) | OAL Height (in.) | OAL Length (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 5305B | .79 | .81 | 1.20 | 8.36 | **MA455305B** | Price |
| 5310B | 1.13 | 1.00 | 1.69 | 11.13 | **MA455310B** | Price |

## DE-STA-CO Vertical Hold Down Toggle Clamps
## Solid Base Type

**Features:**
- High strength forged clamping arm for heavy-duty service
- Hardened steel pivot pins and bushings provide long life
- Black oxide finish
- Large clearance under the clamping bar



| Model No. | Base Length (in.) | Clamp Arm Length (in.) | Base Width (in.) | OAL Width (in.) | OAL (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 5905B | 1.51 | 2.49 | .59 | 1.02 | 4.02 | **MA455905B** | Price |
| 5910B | 2.25 | 3.76 | .75 | 1.57 | 6.02 | **MA455910B** | Price |

## DE-STA-CO Vertical Hold Down Toggle Clamps
## Flanged Base Type

**Features:**
- High strength forged clamping arm for heavy-duty service
- Hardened steel pivot pins and bushings provide long life
- Black oxide finish
- Large clearance under the clamping bar



| Model No. | Mounting Length (in.) | Mounting Width (in.) | Base Length (in.) | Clamp Arm Length (in.) | Width Between Mounting Base (in.) | OAL Width (in.) | Distance from Surface to Clamp Point (in.) | Mount Dia. (in.) | OAL Height (in.) | OAL (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5905 | 1.00 | 1.50 | 1.51 | 2.49 | 1.50 | 2.13 | 1.27 | .29 | 6.75 | 4.02 | **MA455905** | Price |
| 5910 | 1.50 | 2.00 | 2.25 | 3.76 | 2.00 | 2.76 | 1.75 | .41 | 9.27 | 6.02 | **MA455910** | Price |
| 5915 | 2.00 | 2.75 | 2.99 | 5.00 | 2.75 | 3.88 | 2.37 | .55 | 11.25 | 7.50 | **MA455915** | Price |

## RAPIDHOLD™ Vertical Clamps

- Light to Medium duty
- U-bar model supplied with flanged washers and cushion tipped spindle
- Solid bar model supplied with cushion tipped spindle













**Base Type - Flanged**

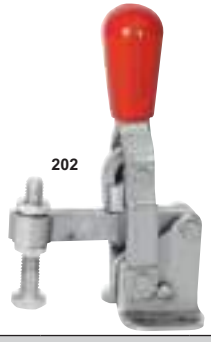
| Model No. | Holding Capacity | Bar Style | Overall Height (in.) | OAL (in.) | Distance Under Clamp Arm (in.) | Mount Dia. (in.) | Mounting Length (in.) | Mounting Width (in.) | Base Width (in.) | Base to Clamp Bar (in.) | Spindle Size (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R101 | 100 lbs | U-Bar | 3.06 | 2.13 | 0.74 | .17 | .63 | .94 | 1.31 | 1.03 | 3/16-24 x 1.38 | **RH10R101** | Price |
| R104 | 500 lbs | U-Bar | 5.67 | 5.5 | 1.25 | .28 | .75 | 1.25 | 1.81 | 4.57 | 5/16-18 x 2.50 | **RH10R104** | Price |
| R105 | 200 lbs | Straight Bar | 3.94 | 2.52 | 0.89 | .20 | .50 | 1.06 | 1.56 | 1.06 | 1/4-20 x 1.75 | **RH10R105** | Price |
| R106 | 200 lbs | U-Bar | 3.94 | 2.52 | 0.89 | .20 | .50 | 1.06 | 1.56 | 1.06 | 1/4-20 x 1.75 | **RH10R106** | Price |
| R110 | 500 lbs | U-Bar | 5.67 | 4.57 | 1.25 | .28 | .75 | 1.25 | 1.81 | 2.81 | 5/16-18 x 2.50 | **RH10R110** | Price |
| R113 | 500 lbs | T-Handle | 4.65 | 4.57 | 1.25 | .28 | .75 | 1.25 | 1.81 | 2.81 | 5/16-18 x 2.50 | **RH10R113** | Price |
| R115 | 750 lbs | U-Bar | 7.99 | 5.55 | 1.73 | .34 | 1.25 | 1.78 | 2.53 | 3.35 | 3/8-16 x 3.50 | **RH10R115** | Price |
| R116 | 750 lbs | Solid Bar | 7.99 | 5.55 | 1.73 | .34 | 1.25 | 1.78 | 2.53 | 3.35 | 3/8-16 x 3.50 | **RH10R116** | Price |
| R118 | 1000 lbs | U-Bar | 8.87 | 6.89 | 2.01 | .35 | 1.25 | 1.77 | 2.00 | 2.01 | 1/2-13 x 3.00 | **RH10R118** | Price |
| R119 | 1000 lbs | Solid Bar | 8.81 | 7.12 | 2.01 | .35 | 1.25 | 1.77 | 2.00 | 2.01 | 1/2-13 x 3.00 | **RH10R119** | Price |
| R120 | 1200 lbs | U-Bar | 11.87 | 9.02 | 3.25 | .48 | 2.00 | 2.75 | 3.00 | 6.02 | 1/2-13 x 4.50 | **RH10R120** | Price |
| R199 | 200 lbs | T-Handle | 3.06 | 2.52 | 0.89 | .20 | .50 | 1.06 | 1.56 | 1.06 | 1/4-20 x 1.75 | **RH10R199** | Price |
| R200 | 200 lbs | T-Handle | 3.08 | 2.52 | 0.89 | .20 | .50 | 1.06 | 1.56 | 1.06 | 1/4-20 x 1.75 | **RH10R200** | Price |
| R203 | 500 lbs | Solid Bar | 5.67 | 5.5 | 1.25 | .28 | .75 | 1.25 | 1.81 | 2.81 | 5/16-18 x 2.50 | **RH10R203** | Price |
| R206 | 750 lbs | U-Bar | 5.49 | 5.55 | 1.73 | .34 | 1.25 | 1.78 | 2.53 | 3.35 | 3/8-16 x 3.50 | **RH10R206** | Price |
| R207 | 225 lbs | U-Bar | 6.66 | 6.14 | 2.76 | .26 | .94 | .98 | 1.5 | 2.68 | 5/16-18 x 2.50 | **RH10R207** | Price |
| R220 | 1200 lbs | Solid Bar | 11.83 | 8.97 | 3.25 | .48 | 2.00 | 2.75 | 3.75 | 6.02 | 1/2-13 x 4.50 | **RH10R220** | Price |

**Base Type - Straight**

| Model No. | Holding Capacity | Bar Style | Overall Height (in.) | OAL (in.) | Distance Under Clamp Arm (in.) | Mount Dia. (in.) | Mounting Length (in.) | Mounting Width (in.) | Base Width (in.) | Base to Clamp Bar (in.) | Spindle Size (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R103 | 100 lbs | U-Bar | 3.51 | 2.13 | 0.74 | .17 | .63 | .94 | 1.31 | 1.03 | 3/16-24 x 1.38 | **RH10R103** | Price |
| R108 | 200 lbs | U-Bar | 4.33 | 2.52 | 0.89 | .20 | .50 | 1.06 | 1.56 | 1.06 | 1/4-20 x 1.75 | **RH10R108** | Price |
| R109 | 200 lbs | Straight Bar | 4.33 | 2.52 | 0.89 | .20 | .50 | 1.06 | 1.56 | 1.06 | 1/4-20 x 1.75 | **RH10R109** | Price |
| R112 | 500 lbs | U-Bar | 6.22 | 4.57 | 1.25 | .28 | .75 | 1.25 | 1.81 | 2.81 | 5/16-18 x 2.50 | **RH10R112** | Price |
| R117 | 750 lbs | Solid Bar | 8.95 | 5.55 | 1.73 | .34 | 1.25 | 1.78 | 2.53 | 3.35 | 3/8-16 x 3.50 | **RH10R117** | Price |
| R198 | 500 lbs | U-Bar | 6.22 | 5.5 | 1.25 | .28 | .75 | 1.25 | 1.81 | 2.81 | 5/6-18 x 2.50 | **RH10R198** | Price |
| R202 | 500 lbs | Solid Bar | 6.22 | 4.57 | 1.25 | .28 | .75 | 1.25 | 1.81 | 2.81 | 5/16-18 x 2.50 | **RH10R202** | Price |
| R204 | 500 lbs | Solid Bar | 6.22 | 5.5 | 1.25 | .28 | .75 | 1.25 | 1.81 | 2.81 | 5/16-18 x 2.50 | **RH10R204** | Price |
| R205 | 750 lbs | U-Bar | 8.95 | 5.55 | 1.73 | .34 | 1.25 | 1.78 | 2.53 | 3.35 | 3/8-16 x 3.50 | **RH10R205** | Price |
| R208 | 1000 lbs | U-Bar | 9.49 | 6.9 | 2.01 | .35 | 1.25 | 1.77 | 2.53 | 2.01 | 1/2-13 x 3.00 | **RH10R208** | Price |
| R209 | 1000 lbs | Solid Bar | 9.49 | 6.94 | 2.01 | .34 | 1.25 | 1.78 | 2.53 | 2.01 | 1/2-13 x 3.00 | **RH10R209** | Price |

## DESTACO Vertical Hold Down Action Clamps

- Ideal for all sectors in which work is performed with holding capacities of up to 1200 lbs.
- Applications include assembly, drilling, testing, gluing, and other processing operations
- Oil-resistant ergo-handle for easy operations
- 4-Bar styles include spindle flanged-washer and nuts
- Solid-bar includes bolt retainer that can be welded to bar

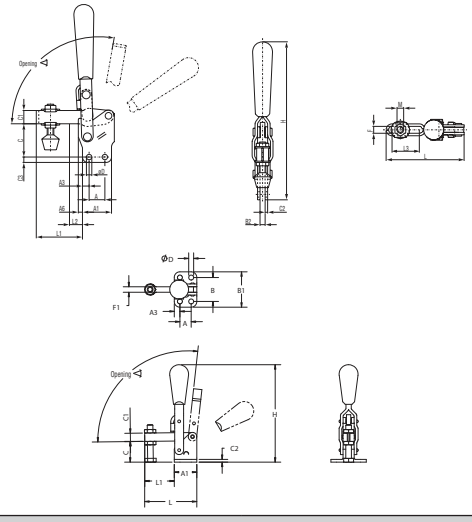









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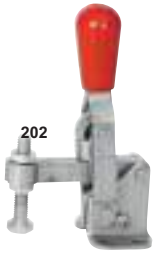


**Bar - Solid**

| Base | Holding Capacity | Bar Opening | Accessory Fastener included (see below for details†) | A (in.) | B (in.) | B1 (in.) | B2 (in.) | C (in.) | OD (in.) | H (in.) | L (in.) | L1 (in.) | M (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flanged | 1000 lbs | 120° | Without Spindle | 1.25 | 1.78 | 2.53 | - | 1.98 | .34 | 8.86 | 6.87 | 4.87 | M12 | **MA50247S** | Price |
| Straight | 200 lbs | 105° | 202208-M M6 x 1.00 (T) | .50 | - | - | .25 | 1.13 | .22 | 4.75 | 2.31 | 1.31 | M6 | **MA50202B** | Price |
| Flanged | 200 lbs | 105° | 202208-M M6 x 1.00 (T) | .50 | 1.06 | 1.57 | - | .94 | .22 | 4.31 | 2.31 | 1.31 | M6 | **MA50202** | Price |
| Flanged | 375 lbs | 185° | Bolt Retainer Clip | .63 | 1.00 | 1.50 | - | 2.69 | .27 | 5.54 | 6.57 | 3.20 | M8 | **MA50317S** | Price |
| Straight | 500 lbs | 99° | Without Spindle | .75 | - | - | .24 | 1.55 | .28 | 7.48 | 5.02 | 3.45 | M8 | **MA50207LB** | Price |
| Flanged | 500 lbs | 99° | Without Spindle | .75 | 1.25 | 1.73 | - | 1.25 | .28 | 6.93 | 5.02 | 3.45 | M8 | **MA50207L** | Price |
| Flanged | 500 lbs | 99° | Without Spindle | .75 | 1.25 | 1.73 | - | 1.25 | .28 | 6.93 | 3.75 | 2.19 | M8 | **MA50207S** | Price |
| Flanged | 750 lbs | 103° | Without Spindle | 1.26 | 1.77 | 2.56 | - | 1.67 | .33 | 8.15 | 6.61 | 3.65 | M10 | **MA50210SR** | Price |

## DESTACO Vertical Hold Down Action Clamps (cont.)

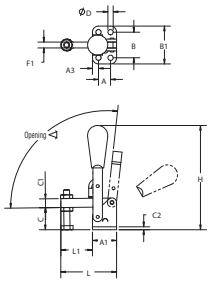
MADE IN THE USA

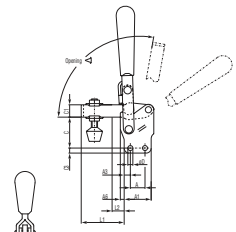










| Bar - Solid | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Base | Holding Capacity | Bar Opening | Accessory Fastener included (see below for details†) | A (in.) | B (in.) | B1 (in.) | B2 (in.) | C (in.) | OD (in.) | H (in.) | L (in.) | L1 (in.) | M (in.) | Order No. | Price |
| Flanged | 750 lbs | 103° | Without Spindle | 1.26 | 1.77 | 2.56 | - | 1.67 | .33 | 8.15 | 5.53 | 3.65 | M10 | **MA50210S** | Price |
| Flanged | 500 lbs | 99° | Without Spindle | .75 | 1.25 | 1.70 | - | 1.25 | .28 | 6.90 | 4.58 | 3.45 | M8 | **MA50207LR** | Price |

| Bar - U-Shape | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Base | Holding Capacity | Bar Opening | Accessory Fastener included (see below for details†) | A (in.) | B (in.) | B1 (in.) | B2 (in.) | C (in.) | OD (in.) | H (in.) | L (in.) | L1 (in.) | M (in.) | Order No. | Price |
| Flanged | 100 lbs | 100° | 305208-M M5 x 0.7 | .63 | .94 | 1.34 | - | .63 | .17 | 3.08 | 2.04 | 1.04 | M5 | **MA50201U** | Price |
| Flanged | 1000 lbs | 120° | 247208-M M12 x 1.75 | 1.25 | 1.78 | 2.53 | - | 2.00 | .35 | 8.69 | 6.87 | 4.87 | M12 | **MA50247U** | Price |
| Flanged | 1200 lbs | 140° | 267203-M M16 x 5.12 | 2.00 | 2.75 | 3.75 | - | 3.08 | .48 | 11.97 | 8.87 | 5.87 | M16 | **MA50267U** | Price |
| Flanged | 200 lbs | 105° | 202208-M M6 x 1.00 | .50 | 1.06 | 1.56 | - | .94 | .22 | 4.31 | 2.73 | 1.73 | M6 | **MA50202U** | Price |
| Flanged | 200 lbs | 105° | 202208-M M6 x 1.00 | .50 | 1.06 | 1.56 | - | .94 | .22 | 4.31 | 3.27 | 2.27 | M6 | **MA50202UL** | Price |
| Flanged | 375 lbs | 99° | 225208-M M8 x 1.25 | .75 | 1.25 | 1.73 | - | 1.25 | .28 | 6.93 | 5.41 | 3.85 | M8 | **MA50207UL** | Price |
| Flanged | 375 lbs | 99° | 225208-M M8 x 1.25 | .75 | 1.25 | 1.73 | - | 1.25 | .28 | 6.93 | 4.58 | 2.09 | M8 | **MA50207UR** | Price |
| Flanged | 375 lbs | 99° | 225208-M M8 x 1.25 | .75 | 1.25 | 1.73 | - | 1.25 | .28 | 6.93 | 3.68 | 2.15 | M8 | **MA50207U** | Price |
| Flanged | 375 lbs | 185° | 507208-M M8 x 1.25 | .63 | 1.00 | 1.50 | - | 2.68 | .27 | 5.28 | 6.53 | 2.53 | M8 | **MA50317U** | Price |
| Flanged | 600 lbs | 103° | 240208-M M10 x 1.50 | 1.25 | 1.77 | 2.56 | - | 1.67 | .33 | 8.19 | 6.72 | 3.66 | M10 | **MA50210UR** | Price |
| Flanged | 600 lbs | 103° | 240208-M M10 x 1.50 | 1.77 | 1.78 | 2.56 | - | 1.67 | .33 | 8.19 | 5.54 | 3.63 | M10 | **MA50210U** | Price |
| Straight | 100 lbs | 100° | 305208-M M5 x 0.7 | .63 | - | - | .16 | .88 | .17 | 3.53 | 2.04 | 1.04 | M5 | **MA50201UB** | Price |
| Straight | 200 lbs | 105° | 202208-M M6 x 1.00 | .50 | - | - | .25 | 1.13 | .22 | 4.40 | 2.73 | 1.73 | M6 | **MA50202UB** | Price |
| Straight | 375 lbs | 99° | 225208-M M8 x 1.25 | .75 | - | - | .24 | 1.55 | .28 | 7.48 | 3.68 | 2.15 | M8 | **MA50207UB** | Price |
| Straight | 375 lbs | 99° | 225208-M M8 x 1.25 | .75 | - | - | .24 | 1.55 | .28 | 7.48 | 5.41 | 3.85 | M8 | **MA50207ULB** | Price |
| Straight | 600 lbs | 103° | 240208-M M10 x 1.50 | 1.25 | - | - | .31 | 2.19 | .33 | 8.19 | 5.54 | 3.63 | M10 | **MA50210UB** | Price |

**(T) Flanged washer not included**
**† U-bar style comes with spindle, nuts and flanged-washer, solid bar comes with bolt retainer clip**

## DESTACO Vertical Hold Down Toggle Locking Clamps

### 2000 Series

- Designed with 2-3x's higher holding capacity
- Compact design
- Great hand clearance for pinch point protection
- More flexibility
- Ideal for fixtures and applications with restricted space where high holding capacity is required

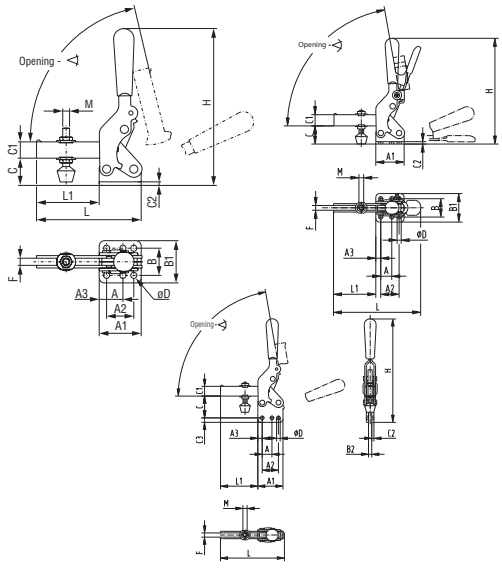
MADE IN THE USA





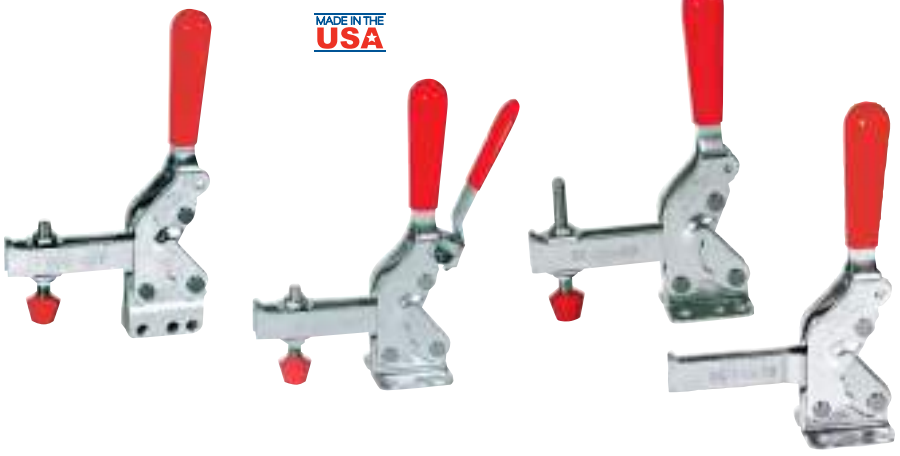


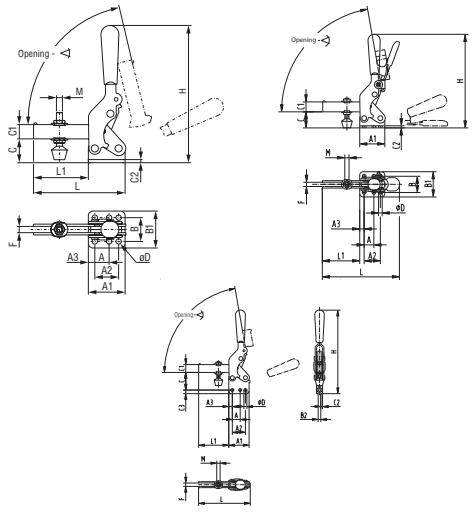



| Bar Style - Solid | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Base | Holding Capacity | Bar Opening | Accessory Fastener | A (in.) | B (in.) | C (in.) | OD (in.) | H (in.) | L (in.) | Order No. | Price |
| Flanged | 1000 lbs | 76 | Bolt Retainer Clip | .75 | 1.25 | 1.25 | .28 | 7.17 | 4.81 | **MA502007S** | Price |
| Flanged | 1400 lbs | 78 | Bolt Retainer Clip | 1.25 | 1.78 | 1.70 | .34 | 9.08 | 6.09 | **MA502010S** | Price |
| Flanged | 600 lbs | 75 | Bolt Retainer Clip | .50 | 1.06 | .95 | .22 | 4.72 | 3.29 | **MA502002S** | Price |
| Flanged | 1400 lbs | 78 | Belt Retainer Clip | 1.25 | 1.78 | 1.70 | .34 | 9.08 | 7.51 | **MA502010SR** | Price |

## DESTACO Vertical Hold-Down Toggle Locking Clamps (cont.)



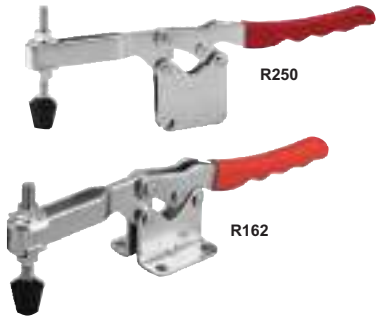
| Bar Style - U-Shape | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Base | Holding Capacity | Bar Opening | Accessory Fastener | A (in.) | B (in.) | C (in.) | OD (in.) | H (in.) | L (in.) | Order No. | Price |
| Flanged | 600 lbs | 75 | 215208-M M6 x 1.00 | .50 | 1.06 | .95 | .22 | 4.72 | 3.29 | **MA502002U** | Price |
| Flanged | 600 lbs | 75 | 215208-M M6 x 1.00 | .50 | 1.06 | .95 | .22 | 4.72 | 4.27 | **MA502002UR** | Price |
| Flanged | 1000 lbs | 76 | 2007208-M M8 x 1.25 | .75 | 1.25 | 1.25 | .28 | 7.17 | 4.81 | **MA502007U** | Price |
| Flanged | 1000 lbs | 76 | 2007208-M M8 x 1.25 | .75 | 1.25 | 1.25 | .28 | 7.17 | 6.60 | **MA502007UR** | Price |
| Flanged | 1400 lbs | 78 | 240208-M M10 x 1.50 | 1.25 | 1.78 | 1.70 | .34 | 9.08 | 6.09 | **MA502010U** | Price |
| Flanged | 1400 lbs | 78 | 240208-M M10 x 1.50 | 1.25 | 1.78 | 1.70 | .34 | 9.08 | 7.51 | **MA502010UR** | Price |

## RAPIDHOLD Horizontal Handle Toggle Clamps

- Medium Duty
- Low profile
- Solid bar model supplied with nylon spindle
- U-bar model supplied with flanged washers and cushion tipped spindle

New!




| Base Type - Flanged | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Model No. | Overall Height (in.) | Overall Length (in.) | Height Under Clamp Arm (in.) | Mounting Length (in.) | Mounting Width (in.) | Base Width (in.) | Distance From Base to Clamp Arm (in.) | Mount Dia. (in.) | Holding Capacity | Spindle Size (in.) | Order No. | Price |
| R155 | 1.02 | 3.11 | 0.31 | .44 | .63 | .94 | .70 | .17 | 60 lbs | #8-32 x 0.75 | **RH10R155** | Price |
| R156 | 1.02 | 3.11 | 0.31 | .44 | .63 | .94 | .70 | .17 | 60 lbs | #8-32 x 0.75 | **RH10R156** | Price |
| R157 | 1.5 | 5.9 | 1 | 1.00 | .87 | 1.42 | 2.21 | .21 | 200 lbs | 1/4-20 x 2.13 | **RH10R157** | Price |
| R159 | 1.97 | 6.62 | 1.37 | .82 | .87 | 1.38 | 2.76 | .35 | 500 lbs | 5/16-18 x 3.00 | **RH10R159** | Price |
| R162 | 2.5 | 11.5 | 1.75 | 1.63 | 1.63 | 2.25 | 4.21 | .33 | 750 lbs | 3/8-16 x 3.50 | **RH10R162** | Price |
| R163 | 1.39 | 2.25 | 0.58 | .53 | .63 | 1.00 | 1.21 | .17 | 150 lbs | 3/16-24 x 1.38 | **RH10R163** | Price |
| R165 | 3.53 | 3.79 | 0.87 | .75 | 1.16 | 1.81 | 1.97 | .28 | 300 lbs | 5/16-18 x 2.50 | **RH10R165** | Price |
| R166 | 3.47 | 5.32 | 1.31 | 1.22 | 1.5 | 2.47 | 2.78 | .31 | 700 lbs | 3/8-16 x 3.50 | **RH10R166** | Price |
| R246 | 1.12 | 4.57 | 0.75 | .53 | .66 | 1.06 | 1.46 | .20 | 150 lbs | #8-32 x 0.75 | **RH10R246** | Price |
| R248 | 1.5 | 5.59 | 1 | 1.00 | .87 | 1.46 | 2.21 | .25 | 200 lbs | 1/4-20 x 2.13 | **RH10R248** | Price |
| R250 | 3.23 | 11.5 | 1.75 | 1.63 | 1.63 | 2.25 | 4.21 | .33 | 750 lbs | 3/8-16*3.5 | **RH10R250** | Price |

| Base Type - Straight | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Model No. | Overall Height (in.) | Overall Length (in.) | Height Under Clamp Arm (in.) | Mounting Length (in.) | Mounting Width (in.) | Base Width (in.) | Distance From Base to Clamp Arm (in.) | Mount Dia. (in.) | Holding Capacity | Spindle Size (in.) | Order No. | Price |
| 60300 | .73 | 3.24 | .43 | .41 | - | - | .87 | .17 | 60 lbs | #8-32 x 0.75 | **RH1060300** | Price |
| R158 | 1.99 | 5.59 | 1 | 1.00 | .87 | 1.46 | 2.21 | .25 | 200 lbs | 1/4-20 x 2.13 | **RH10R158** | Price |
| R161 | 2.42 | 6.62 | 1.37 | .82 | .87 | 1.38 | 2.76 | .35 | 500 lbs | 5/16-18 x 3.00 | **RH10R161** | Price |
| R245 | 1.02 | 3.11 | 0.31 | .44 | .63 | .94 | .70 | .17 | 60 lbs | #8-32 x 0.75 | **RH10R245** | Price |
| R249 | 1.99 | 5.59 | 1 | 1.00 | .89 | 1.46 | 2.21 | .25 | 200 lbs | 1/4-20 x 2.13 | **RH10R249** | Price |

## Horizontal Clamps

MADE IN THE USA

- Used in drilling, testing, gluing and other processing applications.
- Suitable for use in welding, fixtures, in gauge manufacturing as well as in the woodworking industry.



215U



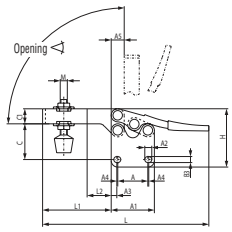
305U

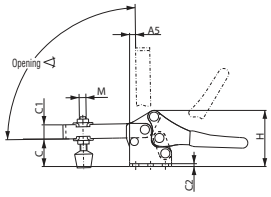


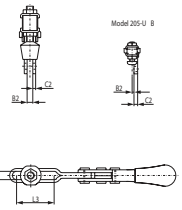
217U

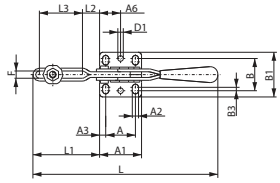


215U




| Bar Style | Base | Holding Capacity | Bar Opening | Spindle Assembly Included with Flanged washer | A (in.) | A3 (in.) | B (in.) | B2 (in.) | B3 (in.) | C (in.) | H (in.) | L (in.) | M (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Solid | Flanged | 200 lbs | 90° | (202208-M) 6mm-1.00 x 44mm Flat Tip | 1.00 | .19 | .88 | - | .20 | 1.03 | 1.53 | 5.50 | 1/4 | **MA50215S** | Price |
| Solid | Flanged | 60 lbs | 90° | (205208-M) 4mm-.07 x 32mm Flat Tip | .44 | .16 | .62 | - | .17 | .36 | .67 | 2.78 | #10 | **MA50205S** | Price |
| U-Shape | Flanged | 150 lbs | 90° | (213208-M) 5mm-0.8 x 34mm Flat Tip | .53 | .23 | .75 | - | .06 | .65 | 1.40 | 4.06 | #10 | **MA50213U** | Price |
| U-Shape | Flanged | 150 lbs | 92° | (MA50-305208-M) 5mm-0.8 x 29mm Flat Tip | .53 | .25 | .63 | - | - | .48 | 1.43 | 2.21 | #10 | **MA50305U** | Price |
| U-Shape | Flanged | 200 lbs | 90° | (202208-M) 6mm-1.00 x 44mm Flat Tip | 1.00 | .19 | .88 | - | - | 1.00 | 1.53 | 5.50 | 1/4 | **MA50215U** | Price |
| U-Shape | Flanged | 200 lbs | 92° | (202208-M) 6mm-1.00 x 44mm Flat Tip | 1.03 | .21 | 1.12 | - | .12 | .92 | 1.95 | 7.00 | 1/4 | **MA50217U** | Price |
| U-Shape | Flanged | 350 lbs | 92° | (MA50-307208-M) 8mm-1.25 x 43mm Flat Tip | .91 | .40 | 1.14 | - | - | .89 | 2.36 | 3.61 | 5/16 | **MA50307U** | Price |
| U-Shape | Flanged | 500 lbs | 90° | (225208-M) 8mm-1.25 x 53mm Flat Tip | 1.00 | .25 | .88 | - | - | 1.31 | 1.84 | 6.81 | 5/16 | **MA50225U** | Price |
| U-Shape | Flanged | 500 lbs | 92° | (225208-M) 8mm-1.25 x 53mm Flat Tip | 1.02 | .28 | 1.24 | - | .10 | 1.25 | 2.40 | 7.50 | 5/16 | **MA50227U** | Price |
| U-Shape | Flanged | 60 lbs | 90° | (205208-M) 4mm-.07 x 32mm Flat Tip | .44 | .16 | .62 | - | .17 | .31 | .67 | 2.65 | #10 | **MA50205U** | Price |
| U-Shape | Flanged | 750 lbs | 90° | (MA50-240208-M) 10mm-1.50 x 79mm Flat Tip | 1.63 | .37 | 1.63 | - | - | 1.75 | 2.55 | 10.87 | 3/8 | **MA50235U** | Price |
| U-Shape | Flanged | 750 lbs | 92° | (MA50-240208-M) 10mm-1.50 x 79mm Flat Tip | 1.61 | .31 | 1.69 | - | .08 | 1.67 | 3.18 | 11.00 | 3/8 | **MA50237U** | Price |
| U-Shape | Flanged | 750 lbs | 92° | MA50-309208 | 1.38 | 1.50 | - | - | - | 1.31 | 3.53 | 5.19 | 3/8-16 | **MA50309U** | Price |
| U-Shape | Flanged to Right | 500 lbs | 90° | (225208-M) 8mm-1.25 x 53mm Flat Tip | 1.00 | .25 | .88 | - | .30 | 1.32 | 1.92 | 7.14 | 5/16 | **MA50225UR** | Price |
| U-Shape | Flanged to Right | 750 lbs | 90° | (MA50-240208-M) 10mm-1.50 x 79mm Flat Tip | 1.63 | .37 | 1.63 | - | .34 | 1.70 | 2.56 | 10.87 | 3/8 | **MA50235UR** | Price |
| U-Shape | Straight | 200 lbs | 90° | (202208-M) 6mm-1.00 x 44mm Flat Tip | 1.00 | .19 | - | .20 | - | 1.28 | 1.78 | 5.50 | 1/4 | **MA50215UB** | Price |

## New Generation Horizontal Clamps

- Offers an average of twice the holding capacity of legacy models
- Order numbers that end in “R” come with Locking Lever (R)

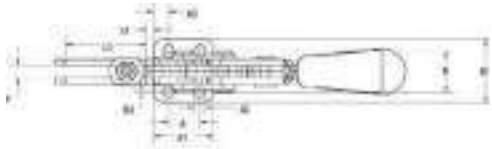


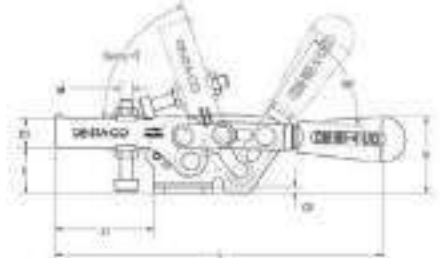
Locking Lever
2017UR

MADE IN THE USA



2017U



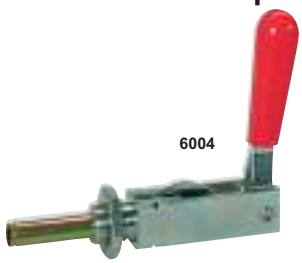


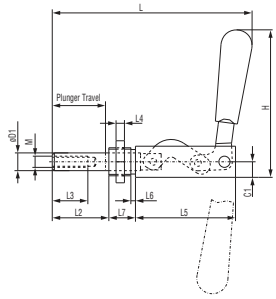
| Bar Style | Toggle Lock Plus Release Lever | Holding Capacity | A (in.) | A2 (in.) | B (in.) | C (in.) | H (in.) | L (in.) | M (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|
| U-Shape | No | 295 lbs | .53 | .17 | .70 | .75 | 1.30 | 5.88 | M5 | **MA502013U** | Price |
| U-Shape | No | 560 lbs | 1.03 | .27 | 1.21 | .98 | 1.95 | 8.65 | M6 | **MA502017U** | Price |
| U-Shape | No | 840 lbs | 1.03 | .27 | 1.21 | 1.32 | 2.25 | 9.88 | M8 | **MA502027U** | Price |
| U-Shape | Yes | 295 lbs | .53 | .17 | .70 | .75 | 1.30 | 5.88 | M5 | **MA502013UR** | Price |
| U-Shape | Yes | 560 lbs | 1.03 | .27 | 1.21 | .98 | 1.95 | 8.65 | M6 | **MA502017UR** | Price |
| U-Shape | Yes | 840 lbs | 1.03 | .27 | 1.21 | 1.32 | 2.25 | 9.88 | M8 | **MA502027UR** | Price |

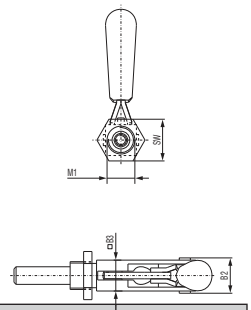
## DESTACO Threaded Body Straight Line Action Clamps

- Versatile and compact straight line action clamps
- Threaded body for through hole mounting

MADE IN THE USA




| Model No. | Holding Capacity | Plunger Travel (in.) | B2 (in.) | C1 (in.) | OD1 (in.) | H (in.) | L (in.) | L1 (in.) | L2 (in.) | M1 (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 602 | 200 lbs | .75 | 1.04 | .37 | .37 | 3.13 | 2.43 | 1.31 | .97 | 5/8-18 | **MA50602** | Price |
| 604 | 300 lbs | 1.50 | 1.30 | .44 | .44 | 4.16 | 4.27 | 2.18 | 1.82 | 3/4-16 | **MA50604** | Price |
| 6004 | 450 lbs | 1.50 | 1.00 | .44 | .50 | 4.21 | 5.52 | 2.71 | 1.59 | 3/4-16 | **MA506004** | Price |
| 624 | 700 lbs | 2.63 | 1.81 | .75 | .62 | 5.60 | 6.68 | 3.62 | 3.24 | 1-14 | **MA50624** | Price |

## RAPIDHOLD Horizonal Latch Clamps

New!

- Feature handles that are in a horizontal position when the clamp is locked
- The hold down clamps direct clamping force perpendicular to the clamping arm
- A wide variety of and holding capacites are available with industry standard mounting patterns to suit your requirements



| Model No. | Overall Height (in.) | Overall Length (in.) | Mounting Length (in.) | Mounting Width (in.) | Mount Dia. (in.) | Hook Dia. (in.) | Max. Distance (in.) | Min. Distance (in.) | Latch Plate OAl (in.) | Latch Plate Width (in.) | Distance From Surface to Clamp Point (in.) | Holding Capacity | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R122 | 1.15 | 2.96 | .63 | .75 | .17 | .16 | 2.57 | 1.84 | .79 | .52 | .44 | 360 lbs | **RH10R122** | Price |
| R126 | 1.63 | 4.87 | .75 | .25 | .26 | .2 | 3.69 | 2.53 | 1.00 | .67 | .48 | 700 lbs | **RH10R126** | Price |
| R129 | 4.27 | 4.73 | .75 | 1.00 | .28 | .23 | 4.49 | 2.89 | 1.50 | .67 | .25 | 1000 lbs | **RH10R129** | Price |
| R130 | 2.92 | 6.64 | 1.63 | 1.5 | .34 | .31 | 5.37 | 3.53 | 1.50 | 1.19 | .91 | 2000 lbs | **RH10R130** | Price |
| R137 | 4 | 9.69 | 2.25 | 2.25 | .41 | .37 | 7.21 | 5.83 | 2.25 | 3.13 | 1.09 | 4000 lbs | **RH10R137** | Price |
| R139 | 3.75 | 8.63 | 2.25 | 2.25 | .41 | .50 | 7.21 | 5.83 | 2.25 | 3.13 | 1.09 | 7500 lbs | **RH10R139** | Price |

## RAPIDHOLD Vertical Pull Action Latch Clamps

New!

- Provides straight line clamping/positioning action
- Most models can be locked over-center in either extended or retracted position
- Useful in a wide range of applications beyond workholding



| Model No. | Overall Height (in.) | OAL (in.) | Mounting Length (in.) | Mounting Width (in.) | Mount Dia. (in.) | Hook Dia. (in.) | Max. Distance (in.) | Min. Distance (in.) | Latch Plate OAL (in.) | Latch Plate Width (in.) | Distance From Surface to Clamp Point (in.) | Holding Capacity | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R124 | 3.35 | 3.11 | .51 | .87 | .21 | .16 | 3.09 | 2.04 | 1.00 | .67 | .20 | 500 lbs | **RH10R124** | Price |
| R128 | 4.27 | 4.73 | .75 | 1.00 | .28 | .23 | 4.49 | 2.89 | 1.50 | .67 | .25 | 1000 lbs | **RH10R128** | Price |
| R132 | 5.91 | 5.13 | 1.25 | 1.06 | .34 | .31 | 2.11 | 2.14 | 2.13 | 1.19 | .50 | 2000 lbs | **RH10R132** | Price |

## RAPIDHOLD Horizontal Pull Action Hook Clamps

New!

- Provides straight line clamping/positioning action
- Most models can be locked over-center in either extended or retracted position
- Useful in a wide range of applications beyond workholding



| Model No | Overall Height (in.) | OAL (in.) | Mounting Length (in.) | Mounting Width (in.) | Mount Dia. (in.) | Hook Dia. (in.) | Max. Distance (in.) | Min. Distance (in.) | Holding Capacity | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|
| R133 | 1.44 | 8.31 | .75 | 1.38 | .22 | .32 | 3.11 | 1.53 | 375 lbs | **RH10R133** | Price |
| R135 | 1.38 | 8.31 | 1.50 | 1.38 | .26 | .32 | 2.20 | 1.61 | 375 lbs | **RH10R135** | Price |
| R136 | 2.26 | 11.35 | 1.25 | .25 | .34 | .37 | 3.60 | 2.75 | 750 lbs | **RH10R136** | Price |
| R138 | 2.68 | 13.24 | 1.13 | 2.38 | .41 | .47 | 3.60 | 2.75 | 1000 lbs | **RH10R138** | Price |

## RAPIDHOLD Horizontal Pull Action Latch Clamps

New!

- Operate with a pulling action
- Ideally suited for stationary latching applications such as a door, lid, and mold closures



| Model No. | Overall Height (in.) | OAL (in.) | Mounting Length (in.) | Mounting Width (in.) | Mount Dia. (in.) | Hook Dia. (in.) | Min Distance (in.) | Holding Capacity | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| R121 | 1.87 | 8.31 | .74 | 1.24 | .28 | .26 | 2.24 | 375 lbs | **RH10R121** | Price |

## RAPIDHOLD Push / Pull Toggle Clamps

- Provides straight line clamping/positioning action
- Most models can be locked over-center in either extended or retracted position
- Useful in a wide range of applications beyond workholding
- Handle must be allowed to rotate > 180° for over-center locking in retracted position - Handle will fall below mounting surface

New!



| Base Type - Flanged | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Model No. | Overall Height (in.) | OAI (in.) | Mounting Length (in.) | Base Width (in.) | Height Under Clamp Arm (in.) | Mount Dia. (in.) | Spindle Size (in.) | Holding Capacity | Order No. | Price |
| 30160 | - | 67.8 | .41 | 1.73 | - | .20 | 1/4 x 1.57 | 200 lbs | **RH1030160** | Price |
| 30180 | - | 4.26 | .75 | 2.79 | - | .22 | 5/16 x 1.96 | 300 lbs | **RH1030180** | Price |
| R140 | 1.61 | 2.68 | .63 | 1.06 | 0.5 | .17 | #8-32 x 0.50 | 100 lbs | **RH10R140** | Price |
| R148 | 3.07 | 5.51 | 1.38 | 2.20 | 0.97 | .22 | 5/16-18 x 1.00 | 300 lbs | **RH10R148** | Price |
| R150 | 3.07 | 5.12 | 1.34 | 2.19 | 0.97 | .20 | 5/16-18 x 1.00 | 400 lbs | **RH10R150** | Price |
| R151 | 4.33 | 6.75 | 1.63 | 2.25 | 1.75 | .34 | 3/8 x 16 x 1.96 | 800 lbs | **RH10R151** | Price |
| R222 | 1.61 | 2.68 | .63 | 1.06 | 0.5 | .17 | #8-32 x 0.50 | 100 lbs | **RH10R222** | Price |
| R224 | 3.23 | 4.9 | 1.44 | 1.88 | 0.97 | .22 | 5/16 x 18 x 1.00 | 600 lbs | **RH10R224** | Price |
| R230 | 5.43 | 6.73 | 1.25 | 2.99 | 0.88 | .33 | 3/8 x 16 x 1.96 | 700 lbs | **RH10R230** | Price |
| R231 | 2.84 | 7.06 | 3.01 | 2.25 | 0.81 | .34 | 3/8 x 16 x 1.96 | 2500 lbs | **RH10R231** | Price |
| R233 | 3.68 | 6.23 | 1.62 | 2.25 | 1.25 | .34 | 3/8 x 16 x 1.96 | 850 lbs | **RH10R233** | Price |

| Base Type - Through Hole Mount | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Model No. | Overall Height (in.) | OAI (in.) | Mounting Length (in.) | Base Width (in.) | Height Under Clamp Arm (in.) | Mount Dia. (in.) | Spindle Size (in.) | Holding Capacity | Order No. | Price |
| R141 | 2.96 | 2.53 | .41 | 1.73 | 0.47 | .20 | 1/4 x 1.57 | 200 lbs | **RH10R141** | Price |
| R144 | 3.23 | 4.9 | 1.44 | 1.88 | 0.97 | .22 | 5/16 x 18 x 1.00 | 600 lbs | **RH10R144** | Price |
| R145 | 3.86 | 4.53 | .75 | 2.79 | 0.43 | .22 | 5/16 x 18 x 1.00 | 300 lbs | **RH10R145** | Price |
| R149 | 2.67 | 6.01 | 3.00 | 2.19 | 0.68 | .28 | 5/16 x 18 x 1.00 | 600 lbs | **RH10R149** | Price |
| R152 | 5.4 | 6.73 | 1.78 | 2.99 | 0.79 | .33 | 3/8-16 x 1.25 | 700 lbs | **RH10R152** | Price |

## DESTACO Straight Line Action Flanged Clamps

- Ideal for clamping during soldering, gluing, locking, assembling, drilling, testing, positioning, and much more
- Sizes and clamp range are distinguished by their compact design
- Many versions locking both extended and retracted positions
- Zinc plated, rivets made of stainless steel, with oil resistant handles
- "R" models have the toggle Lock Plus™ lever feature

MADE IN THE USA





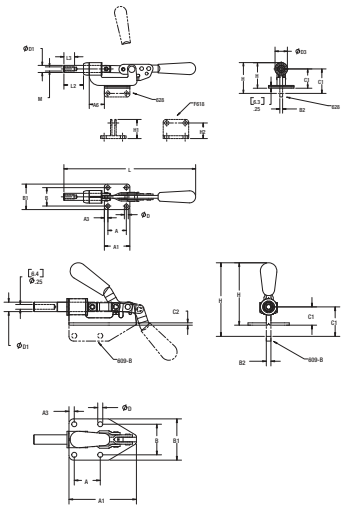










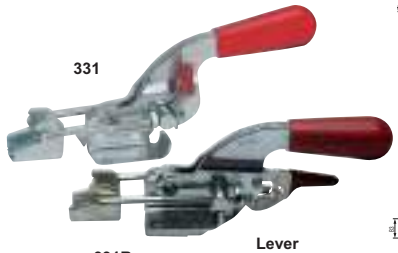



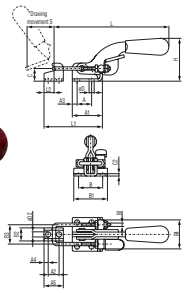
| Holding Capacity | Plunger Travel | Plunger Thread | A (in.) | A5 (in.) | B (in.) | C1 (in.) | OD (in.) | OD2 (in.) | H (in.) | L | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 lbs | .63 | 8-32 | .63 | - | .63 | .50 | .17 | - | 1.27 | 2.61 | **MA50601** | Price |
| 100 lbs | .63 | 1/4-20 Ext. | .63 | - | .63 | .50 | .17 | - | 1.27 | 2.86 | **MA50601O** | Price |
| 150 lbs | .63 | M4 | .63 | .43 | .63 | .50 | .19 | .019 | 1.27 | 2.63 | **MA506001M** | Price |
| 300 lbs | .97 | 5/16-18 | 1.38 | - | 1.63 | .97 | .22 | - | 1.27 | 8.53 | **MA50615** | Price |
| 300 lbs | 1.25 | 5/16-18 | 1.38 | - | 1.62 | .97 | .27 | - | 3.17 | 5.46 | **MA50609** | Price |
| 300 lbs | 1.25 | 5/16-18 | 1.38 | - | 1.63 | .97 | .22 | - | 3.29 | 5.47 | **MA50605** | Price |
| 450 lbs | 1.57 | 5/16-18 | 1.25 | - | .63 | .88 | .20 | - | 2.42 | 6.72 | **MA50606** | Price |
| 560 lbs | .70 | M6 x 1.0 | 1.75 | - | .87 | .50 | .22 | - | 1.59 | 2.96 | **MA506015MR** | Price |
| 560 lbs | .70 | M6 x 1.0 | 1.75 | - | .87 | .50 | .22 | - | 1.59 | 2.96 | **MA506015M** | Price |
| 600 lbs | 1.11 | 3/8-16 | 1.63 | - | 1.63 | 1.70 | .38 | - | 2.25 | 11.63 | **MA50620** | Price |
| 600 lbs | 1.25 | 5/16-18 | 1.44 | .51 | 1.31 | .97 | .27 | - | 3.43 | 4.77 | **MA50603R** | Price |
| 600 lbs | 1.25 | 5/16-18 | 1.44 | .51 | 1.31 | .97 | .27 | - | 3.43 | 4.77 | **MA50603** | Price |
| 800 lbs | 1.63 | 5/16-18 | 1.38 | - | 1.63 | .69 | .28 | - | 3.52 | 6.02 | **MA50607** | Price |
| 800 lbs | 1.63 | 5/16-18 | 1.38 | - | 1.63 | .69 | .28 | - | 3.52 | 6.02 | **MA50607SQ** | Price |
| 800 lbs | 1.63 | 3/8-16 | 1.62 | - | 1.62 | 1.70 | .34 | - | 4.41 | 6.72 | **MA50610** | Price |
| 850 lbs | 1.63 | 3/8-16 | 1.63 | .75 | 1.63 | 1.25 | .33 | - | 4.04 | 6.00 | **MA50608** | Price |
| 2500 lbs | 2.00 | 3/8-16 | 1.38 | - | 1.63 | .81 | .34 | - | 3.09 | 7.06 | **MA50630** | Price |
| 2500 lbs | 2.00 | 3/8-16 | 1.38 | - | 1.63 | .81 | .34 | - | 3.06 | 7.06 | **MA50630R** | Price |
| 7500 lbs | 4.00 | 1/2-13 | 3.56 | - | 2.13 | 1.25 | .41 | - | 4.28 | 12.65 | **MA50640** | Price |
| 16000 lbs | 3.00 | 5/8-11 | 2.75 | - | 2.25 | 2.25 | .41 | - | 4.84 | 11.16 | **MA50650** | Price |

## DESTACO Horizontal Latch Clamp

MADE IN THE USA

- Clamps are provided with u-shaped hooks
- Ergo handle
- Ideal for quick closing of covers and flaps on rotating or stationary containers
- "R" Models have a release lever to protect against vibrations and movement of boxes
- Latch plates sold separately #375, 375R, 385



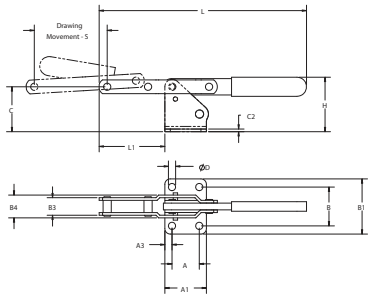
| Holding Capacity | Adjustment Range | A (in.) | A2 (in.) | A5 (in.) | B (in.) | C (in.) | OD (in.) | H (in.) | L (in.) | M | S | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2000 lbs | 0-0.97 | 1.63 | .75 | 1.50 | 1.50 | .94 | .33 | 2.89 | 8.20 | M8 | 2.50 | **MA50341** | Price |
| 2000 lbs | 0-0.97 | 1.63 | .75 | 1.50 | 1.50 | .94 | .33 | 2.89 | 8.20 | M8 | 2.50 | **MA50341R** | Price |
| 360 lbs | 0-0.36 | .63 | .39 | .79 | .75 | .47 | .17 | 1.19 | 3.88 | M4 | 1.18 | **MA50323** | Price |
| 4000 lbs | 0-0.81 | 2.25 | - | - | 2.25 | 1.13 | .41 | 4.19 | 10.19 | M10 | 3.50 | **MA50375** | Price |
| 4000 lbs | 0-0.81 | 2.25 | - | - | 2.25 | 1.13 | .41 | 4.19 | 10.19 | M10 | 3.50 | **MA50375R** | Price |
| 720 lbs | 0-0.87 | .75 | .56 | 1.00 | 1.25 | .66 | .27 | 2.89 | 6.06 | M5 | 1.75 | **MA50331R** | Price |
| 720 lbs | 0-0.87 | .75 | .56 | 1.00 | 1.25 | .66 | .27 | 1.97 | 6.07 | M5 | 1.75 | **MA50331** | Price |
| 7500 lbs | 0-1.36 | 2.25 | - | - | 2.25 | 1.13 | .41 | 3.67 | 9.65 | M12 | 2.19 | **MA50385** | Price |

## DESTACO Horizontal Pull Action Hook Clamps

MADE IN THE USA

- Ideal for quick closing of covers and flaps on rotating or stationary containers
- "R" Models have a release lever to protect against vibrations and movement of boxes






| Holding Capacity | Adjustment Range | A (in.) | B (in.) | C (in.) | OD (in.) | OD2 (in.) | H (in.) | L (in.) | L1 Max (in.) | M | S | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 200 lbs | 0-0.29 | .50 | 1.22 | .56 | .22 | .32 | 1.43 | 6.01 | 1.70 | M5 | 2.35 | **MA50330** | Price |
| 375 lbs | 0-0.49 | .75 | 1.37 | .75 | .22 | .38 | 1.83 | 8.82 | 2.13 | M8 | 4.00 | **MA50351** | Price |
| 375 lbs | 0-0.49 | .75 | 1.37 | .75 | .22 | .38 | 1.85 | 9.45 | 2.13 | M8 | 4.00 | **MA50351R** | Price |
| 375 lbs | 0-0.49 | 1.50 | .56 | .86 | .27 | .38 | 1.94 | 8.32 | 1.63 | M8 | 4.00 | **MA50351B** | Price |
| 750 lbs | 0-0.94 | 1.25 | 1.94 | 1.42 | .34 | .50 | 2.58 | 11.89 | 2.81 | M10 | 5.38 | **MA50371** | Price |
| 1000 lbs | 0-1.17 | 1.13 | 2.37 | 1.81 | .41 | .62 | 2.90 | 13.45 | 3.13 | M12 | 6.13 | **MA50381** | Price |

## DESTACO Horizontal Pull Action Latch Clamps

**Models 301 & 311:**

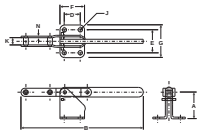
- Fixed stop automatically limits handle travel at various clamping positions once clamp is installed

**Model 3011:**

- Heavy duty cast steel construction with ergonomic handle
- Replaceable stainless steel pivot pins

MADE IN THE USA





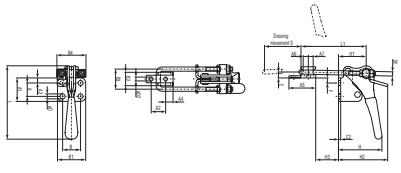


| Holding Capacity | A (in.) | B (in.) | C (in.) | OD (in.) | H (in.) | L (in.) | S | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 375 lbs | .75 | 1.25 | 1.50 | .28 | 1.91 | 8.33 | 4.00 | **MA50301** | Price |
| 1200 lbs | 1.25 | 1.78 | 1.91 | .33 | 2.44 | 9.49 | 3.38 | **MA50311** | Price |
| 2000 lbs | 1.25 | 1.78 | 1.87 | .33 | 3.61 | 9.28 | 3.00 | **MA503011** | Price |

## DESTACO Vertical Pull Action Latch Clamps

- Ideal for quick closing of covers and flaps on rotating or stationary containers
- Ergo handle
- Latch plate sold separately #374107

MADE IN THE USA





| Holding Capacity | Adjustment Range | A (in.) | A2 (in.) | B (in.) | OD (in.) | OD2 (in.) | H (in.) | H2 (in.) | L (in.) | L1 Max (in.) | M | S | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 500 lbs | 0-0.47 | .50 | .56 | .88 | .20 | .17 | 1.91 | 1.97 | 3.49 | 2.56 | M4 | 1.53 | **MA50324** | Price |
| 1000 lbs | 0-0.76 | .75 | .81 | 1.00 | .28 | .22 | 2.37 | 2.68 | 4.10 | 3.70 | M6 | 2.04 | **MA50334** | Price |
| 2000 lbs | 0-1.22 | 1.25 | 1.06 | 1.44 | .34 | .34 | 3.39 | 3.39 | 5.77 | 5.00 | M8 | 2.46 | **MA50344** | Price |
| 4000 lbs | 0-2.12 | 1.25 | - | 1.50 | .41 | 0 | 2.38 | - | 6.60 | 6.04 | M10 | 1.75 | **MA50374** | Price |

## DESTACO Squeeze Action Plier Hex Steel Clamp

### Series 325

- Designed for attachment by welding or using mount holes



| Holding Capacity | Jaw Opens | Handle Moves | A (in.) | B (in.) | F (in.) | H (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 800 lbs | 90° | 50 | .50 | 1.78 | .27 | 8.28 | **MA50325** | Price |

## DESTACO Squeeze Action Plier Clamps

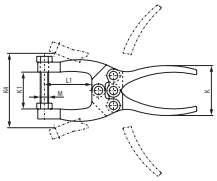
### Series 460 & 480

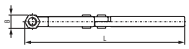
- Drop forged alloy steel components for exceptional strength
- Two way trigger release allows for fast and easy opening











| Holding Capacity | Max. Clamping Thickness (K5) | Spindle Supplied | Order No. | Price |
|---|---|---|---|---|
| 700 lbs | 1.16 | 468206-M | **MA50462** | Price |
| 700 lbs | 2.13 | 468206-M, 210203-M | **MA50463** | Price |
| 1200 lbs | 1.16 | 468206-M | **MA50482** | Price |

## DESTACO Squeeze Action Plier Clamps

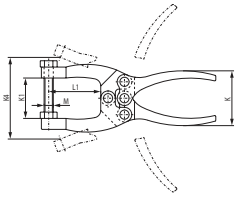
### Series 424 & 441

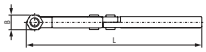
- Compact clamps with forged alloy steel construction for high strength
- Versions ending with (2) are supplied with two adjustable spindles











| Holding Capacity | Max. Clamping Thickness (K5) | Min. Opening (K1) | Spindle Size (M) | Max. Opening (K4) | Jaw Depth (L1) | Thickness (B) | Spindle Supplied | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 200 lbs | .63 | 1.00 | M6 | 2.06 | 1.08 | 0.66 | 424208-M | **MA50424** | Price |
| 200 lbs | .29 | 1.00 | M6 | 2.66 | 1.08 | 0.66 | (2X) 431208-M | **MA504242** | Price |
| 350 lbs | 1.03 | 2.80 | M8 | 71.2 | 1.77 | 0.50 | 441203-M | **MA50441** | Price |

## BESSEY Toggle Clamp Spindles

- Spindle assemblies for Bessey toggle clamps



| Description | Order No. | Price |
|---|---|---|
| STC-HH20 / STC-HV-20 / STC-HA20 / STC-IHA15 / STC-IHHI5 | **SG753101627** | Price |
| STC-HH50 / STC-IHH25 | **SG753101589** | Price |
| STC-HH70 | **SG753101588** | Price |

## Flat Tip Bonded Neoprene Spindle - Inch

- Black neoprene, hardness 70-80 shore A
- Temperature range: -22°F to 212°F
- Oil resistant, labs ( silicone free)
- Includes jam nuts







| Brand Name - De-Sta-Co | | | | |
|---|---|---|---|---|
| Thread (in.) | Length (in.) | Cap Width (in.) | Order No. | Price |
| #8-32 | 1.00 | .56 | **MA50105208** | Price |
| #8-32 | 1.25 | .56 | **MA50102208** | Price |
| #10-32 | 1.38 | .56 | **MA50201208** | Price |
| 1/4-20 | 1.50 | .66 | **MA50424208** | Price |
| 1/4-20 | 1.63 | .66 | **MA50202208** | Price |
| 1/4-20 | 2.13 | .66 | **MA50215208** | Price |
| 5/16-18 | 2.25 | .83 | **MA50225208** | Price |
| 5/16-18 | 3.00 | .83 | **MA50507208** | Price |
| 3/8-16 | 3.25 | .88 | **MA50240208** | Price |
| 3/8-16 | 3.50 | .88 | **MA50527208** | Price |
| 3/8-16 | 5.75 | .88 | **MA50235208** | Price |
| 1/2-13 | 3.87 | 1.18 | **MA50247208** | Price |
| 5/8-11 | 5.00 | 1.38 | **MA50267208** | Price |

| Brand Name - Rapidhold | | | | |
|---|---|---|---|---|
| Thread (in.) | Length (in.) | Cap Width (in.) | Order No. | Price |
| 1/4-20 | 2.17 | .63 | **RH10R174** | Price |
| 5/16-18 | 3.05 | .83 | **RH10R177** | Price |
| 3/8-16 | 3.62 | .88 | **RH10R176** | Price |

## Flat Cap Bonded Neoprene Spindle - Metric

- Red & blue neoprene, hardness 80-85 shore A
- Temperature range: -22°F to 212°F
- Oil resistant, labs (silicone free)
- Includes jam nuts







| Brand Name - De-Sta-Co | | | | |
|---|---|---|---|---|
| Thread | Length (in.) | Cap Width (in.) | Order No. | Price |
| M5 | 1.54 | .39 | **MA502013208M** | Price |
| M6 | 1.00 | .66 | **MA50431208M** | Price |
| M6 | 1.63 | .66 | **MA50424208M** | Price |
| M6 | 1.73 | .47 | **MA50202208M** | Price |
| M6 | 2.13 | .47 | **MA50215208M** | Price |
| M8 | 2.09 | .83 | **MA50225208M** | Price |
| M8 | 2.48 | .83 | **MA502007208M** | Price |
| M8 | 3.27 | .83 | **MA50507208M** | Price |
| M10 | 3.11 | .78 | **MA50240208M** | Price |
| M12 | 4.02 | .94 | **MA50247208M** | Price |
| M10 | 4.72 | .78 | **MA50235208M** | Price |

| Brand Name - Rapidhold | | | | |
|---|---|---|---|---|
| Thread | Length (in.) | Cap Width (in.) | Order No. | Price |
| M6 | .20 | .63 | **RH10R191** | Price |
| M8 | 2.09 | .83 | **RH10R194** | Price |
| M10 | 1.25 | 1.02 | **RH10R167** | Price |

## Round Cap Bonded Neoprene Spindle - Metric

- Red & blue neoprene, hardness 80-85 shore A
- Temperature range: -22°F to 212°F
- Oil resistant, labs (silicone free)
- Includes jam nuts



| Brand Name - De-Sta-Co | | | | |
|---|---|---|---|---|
| Thread | Length (in.) | Cap Width (in.) | Order No. | Price |
| M4 | .87 | .32 | **MA50205208M** | Price |
| M4 | 1.26 | .32 | **MA50201208M** | Price |
| M5 | 1.14 | .39 | **MA50305208M** | Price |
| M5 | 1.34 | .39 | **MA50213208M** | Price |
| M5 | 1.54 | .39 | **MA502013208M** | Price |
| M6 | 2.13 | .47 | **MA50215208M** | Price |
| M8 | 1.69 | .75 | **MA50307208M** | Price |

| Brand Name - Rapidhold | | | | |
|---|---|---|---|---|
| Thread | Length (in.) | Cap Width (in.) | Order No. | Price |
| M4 | .88 | .31 | **RH10R180** | Price |
| M5 | 1.14 | .39 | **RH10R187** | Price |
| M8 | 1.78 | .83 | **RH10R195** | Price |

## DESTACO Cone-Tip Bonded Neoprene Spindle Assemblies

- Black neoprene, hardness 70-80 shore A
- Temperature range: -22°F to 212°F
- Oil resistant, labs (silicone free)
- Includes jam nuts



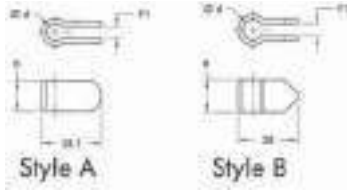


| G Thread Dia. (in.) | L OAL (in.) | D Dia. of Cap (in.) | Order No. | Price |
|---|---|---|---|---|
| #10-32 | 1.50 | .56 | **MA50305208** | Price |
| 1/4-20 | 2.25 | .75 | **MA50213208** | Price |
| 3/8-16 | 3.50 | .88 | **MA50210208** | Price |
| 5/16-18 | 3.00 | .75 | **MA50509208** | Price |
| 5/16-18 | 5.50 | .75 | **MA50519208** | Price |

## Bolt Retainers

- For use with clamps featuring u-bar and open bar clamping arms






| Brand Name - De-Sta-Co | | | | |
|---|---|---|---|---|
| Dia. (in.) | Width | Style | Order No. | Price |
| 1/2 | 0.88 | A | **MA50247110** | Price |
| 1/4 | 0.50 | B | **MA502002115E** | Price |
| 3/8 | 0.75 | A | **MA50210114** | Price |
| 5/16 | 0.63 | A | **MA50207105** | Price |
| 5/16 | 0.75 | B | **MA502007115E** | Price |
| M10 | 0.78 | B | **MA50210114M** | Price |
| M10 | 1.13 | B | **MA502010115E** | Price |
| M12 | 0.87 | B | **MA50247110M** | Price |
| M8 | 0.63 | B | **MA50207105M** | Price |

| Brand Name - Rapidhold | | | | |
|---|---|---|---|---|
| Dia. (in.) | Width | Style | Order No. | Price |
| 1/2 | 1.19 | A | **RH10R171** | Price |
| 3/8 | .74 | A | **RH10R178** | Price |
| 5/16 | .64 | A | **RH10R184** | Price |

## DESTACO Flanged Washers

- For use with clamps featuring u-bar and open bar clamping arms



| | | Stainless Steel | | Zinc Plated | |
|---|---|---|---|---|---|
| Spindle Dia. | Brand Name | Order No. | Price | Order No. | Price |
| M10 or 3/8 | De-Sta-Co | **MA50235906** | Price | **MA50235106** | Price |
| M12 or 1/2 | De-Sta-Co | **-** | - | **MA50247109** | Price |
| M16 or 5/8 | De-Sta-Co | **-** | - | **MA50267102** | Price |
| M4 or #8 | De-Sta-Co | **MA50105906** | Price | **MA50105106** | Price |
| M5 or #10 | De-Sta-Co | **MA50102911** | Price | **MA50102111** | Price |
| M6 or 1/4 | De-Sta-Co | **MA50215905** | Price | **MA50215105** | Price |
| M8 or 5/16 | De-Sta-Co | **MA50507907** | Price | **MA50507107** | Price |

## DESTACO Latch Plates



| Description | Order No. | Price |
|---|---|---|
| Fits Clamp No. 331 | **MA50331005** | Price |
| Fits Clamp No. 341 | **MA50341005** | Price |
| Fits Clamp No. 375 & 385 | **MA50385102** | Price |

## DESTACO Plunger-matic Assemblies

- Use with straight line action clamps
- Internal compression spring compensates for variations in material
- Zinc plated
- Includes jaw nuts



| For Spindle Dia. (in.) | OAL (in.) | Thread Length (in.) | Cap Dia. (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 3/16-18 | 2.50 | 1.13 | .88 | **MA50920** | Price |
| 5/16-18 | 2.50 | .75 | .88 | **MA50905** | Price |
| M8 | 3.65 | .75 | .88 | **MA50905M** | Price |
| M10 | 3.63 | 1.13 | .88 | **MA50920M** | Price |

## DESTACO Neoprene Caps

- Slip on head of hex head spindles
- Hardness 60-70 shore A
- Temperature range: -40°F to 220°F



| Fits Spindle Dia. (in.) | Order No. | Price |
|---|---|---|
| M6 or 1/4 | **MA50424107** | Price |
| M8 or 5/16 | **MA50225119** | Price |
| M10 or 3/8 | **MA50235119** | Price |

## DESTACO Polyurethane Caps

- Internally threaded
- Hardness 80 shore A
- Temperature range: -90°F to 200°F



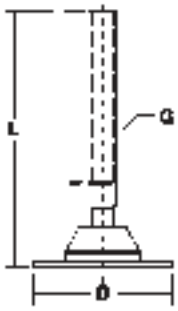
| | Cone Tip | | Flat Tip | |
|---|---|---|---|---|
| Fits Spindle Dia. (in.) | Order No. | Price | Order No. | Price |
| 1/4 | **MA50215319** | Price | **MA50215219** | Price |
| 5/16 | **MA50225319** | Price | **MA50225219** | Price |
| 3/8 | **MA50235319** | Price | **MA50235219** | Price |

## DESTACO Large Diameter Swivel Spindle Assembles

### With Neoprene Pad

- White neoprene hardness 70-80 shore A
- Temperature range: -40°F to 220°F
- Non-marking
- Includes jam nuts



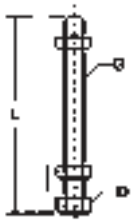



| G Thread Dia. (in.) | L OAL (in.) | D Dia. of Cap (in.) | Order No. | Price |
|---|---|---|---|---|
| 1/4-20 | 2.56 | 1.00 | **MA50207209** | Price |
| 5/16-18 | 2.98 | 1.50 | **MA50507209** | Price |
| 3/8-16 | 3.56 | 2.00 | **MA50210209** | Price |

## Hex-Head Spindle Assemblies

- Plain hexagonal head
- Fully threaded
- Zinc plated or stainless steel
- Includes jam nuts
- †Hex head spindle made from nylon








| Style - Inch | | | | | |
|---|---|---|---|---|---|
| Thread (G) | Length (L) (in.) | Material | Brand Name | Order No. | Price |
| #8-32 | .86 | Nylon | De-Sta-Co | **MA50105203†** | Price |
| #8-32 | .90 | Zinc Plated | Rapidhold | **RH10R170** | Price |
| 1/2-13 | 2.84 | Zinc Plated | De-Sta-Co | **MA50325203** | Price |
| 1/2-13 | 3.31 | Zinc Plated | Rapidhold | **RH10R175** | Price |
| 1/2-13 | 3.34 | Zinc Plated | De-Sta-Co | **MA50220203** | Price |
| 1/2-13 | 4.81 | Zinc Plated | Rapidhold | **RH10R182** | Price |
| 10/32 | 1.12 | Zinc Plated | De-Sta-Co | **MA50305203** | Price |
| 3/8-16 | 3.00 | Zinc Plated | De-Sta-Co | **MA50210203** | Price |
| 3/8-16 | 4.25 | Zinc Plated | De-Sta-Co | **MA50240203** | Price |
| 3/8-16 | 5.25 | Zinc Plated | De-Sta-Co | **MA50527203** | Price |
| 5/16-18 | 1.22 | Zinc Plated | De-Sta-Co | **MA50461203** | Price |
| 5/16-18 | 1.22 | Zinc Plated | Rapidhold | **RH10R186** | Price |
| 5/16-18 | 1.97 | Zinc Plated | De-Sta-Co | **MA50441203** | Price |
| 5/16-18 | 2.72 | Zinc Plated | De-Sta-Co | **MA50207203** | Price |
| 5/8-11 | 4.42 | Zinc Plated | De-Sta-Co | **MA50250203** | Price |

| Style - Metric | | | | | |
|---|---|---|---|---|---|
| Thread (G) | Length (L) (in.) | Material | Brand Name | Order No. | Price |
| M10 | 0.9 | Zinc Plated | Rapidhold | **RH10R168** | Price |
| M10 | 1.85 | Zinc Plated | De-Sta-Co | **MA50491203M** | Price |
| M10 | 3.03 | Zinc Plated | De-Sta-Co | **MA50210203M** | Price |
| M10 | 4.21 | Zinc Plated | De-Sta-Co | **MA50240203M** | Price |
| M12 | 3.46 | Zinc Plated | De-Sta-Co | **MA50220203M** | Price |
| M16 | 5.12 | Zinc Plated | De-Sta-Co | **MA50267203M** | Price |
| M5 | 1.32 | Stainless Steel | Rapidhold | **RH10R188** | Price |
| M6 | .90 | Zinc Plated | Rapidhold | **RH10R190** | Price |
| M6 | 1.93 | Zinc Plated | De-Sta-Co | **MA50205203M** | Price |
| M8 | 1.20 | Zinc Plated | De-Sta-Co | **MA50461203M** | Price |
| M8 | 2.77 | Stainless Steel | De-Sta-Co | **MA50207943M** | Price |
| M8 | 2.97 | Zinc Plated | De-Sta-Co | **MA50207203M** | Price |

## DESTACO Swivel Foot Spindle Assemblies

- Includes jam nuts



| Style - English | | | | |
|---|---|---|---|---|
| Thread (in.) | Length (in.) | Cap Width (in.) | Order No. | Price |
| 1/4-20 | 2.38 | .50 | **MA50207206** | Price |
| 5/16-18 | 2.75 | .56 | **MA50507206** | Price |
| 3/8-16 | 3.38 | .63 | **MA50210206** | Price |
| 1/2-13 | 4.63 | 1.00 | **MA50250206** | Price |

| Style - Metric | | | | |
|---|---|---|---|---|
| Thread (in.) | Length (in.) | Cap Width (in.) | Order No. | Price |
| M6 | 2.44 | .47 | **MA50207206M** | Price |
| M8 | 2.87 | .63 | **MA50507206M** | Price |
| M10 | 3.00 | .63 | **MA50468206M** | Price |
| M10 | 3.31 | .79 | **MA50210206M** | Price |
| M12 | 4.72 | .98 | **MA50250206M** | Price |

## RAPIDHOLD U-Bolt Spindle Accessories



| Style - Inch | | | | |
|---|---|---|---|---|
| Length (in.) | Thread | Material | Order No. | Price |
| 5.8 | 1/2-12 | HSS | **RH1070055** | Price |
| 5.82 | 3/8-16 | HSS | **RH1070000** | Price |
| 8.66 | 3/8-16 | HSS | **RH1070125** | Price |

| Style - Metric | | | | |
|---|---|---|---|---|
| Length (in.) | Thread | Material | Order No. | Price |
| .57 | M4 | HSS | **RH1070005** | Price |
| .57 | M4 | Stainless Steel | **RH1070010** | Price |
| .78 | M4 | HSS | **RH1070015** | Price |
| .78 | M4 | Stainless Steel | **RH1070020** | Price |
| .87 | M5 | HSS | **RH1070060** | Price |
| .87 | M5 | Stainless Steel | **RH1070065** | Price |
| 1.00 | M6 | HSS | **RH1070135** | Price |
| 1.14 | M6 | HSS | **RH1070025** | Price |
| 1.14 | M6 | Stainless Steel | **RH1070030** | Price |
| 1.15 | M8 | HSS | **RH1070035** | Price |
| 1.15 | M8 | Stainless Steel | **RH1070040** | Price |
| 1.54 | M8 | HSS | **RH1070045** | Price |

## RAPIDHOLD Stainless Steel Push / Pull Toggle Clamps

- Provides straight line clamping/positioning action
- Most models can be locked over-center in either extended or retracted position
- Useful in a wide range of applications beyond workholding
- Handle must be allowed to rotate > 180° for over-center locking in retracted position - Handle will fall below mounting surface

New!



| Model no. | Mounting Length (in.) | Base Width (in.) | OAL (in.) | Height Under Clamp Arm (in.) | Mount Dia. (in.) | Bar Style | Spindle Size (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| R142 | .41 | 1.73 | 2.53 | 0.47 | .20 | Straight Line | 1/4-20 x 0.63 | **RH10R142** | Price |
| R143 | .41 | 1.73 | 2.53 | 0.48 | .20 | Straight Line | 1/4 x 1.57 | **RH10R143** | Price |
| R146 | .75 | 2.79 | 4.53 | 0.63 | .22 | Straight Line | 5/16 x 1.96 | **RH10R146** | Price |
| R147 | .75 | 2.79 | 4.53 | 0.43 | .22 | Straight Line | 5/16 x 18 x 1.00 | **RH10R147** | Price |

## RAPIDHOLD Stainless Steel Latch Clamps

- Fixed hook
- Latch plate not included

New!



| Model No. | OAL (in.) | Overall Height (in.) | Latch Plate Length (in.) | Mounting Length (in.) | Mounting Width (in.) | Latch Plate OAL (in.) | Mount Dia. (in.) | Latch Plate Width (in.) | Hook Dia. (in.) | Distance From Surface to Clamp Pt. (in.) | Max. Distance (in.) | Min. Distance (in.) | Holding Capacity | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R123 | 2.96 | 1.15 | .79 | .63 | .75 | .79 | .17 | .52 | .16 | .44 | 2.57 | 1.84 | 360 lbs | **RH10R123** | Price |
| R125 | 3.11 | 3.35 | 1.00 | .51 | .87 | 1.00 | .21 | .67 | .16 | .20 | 3.09 | 2.04 | 500 lbs | **RH10R125** | Price |
| R127 | 4.87 | 1.63 | 1.00 | .75 | .25 | 1.00 | .26 | .67 | .20 | .48 | 3.69 | 2.53 | 700 lbs | **RH10R127** | Price |
| R129 | 4.73 | 4.27 | 1.5 | .75 | 1.00 | 1.50 | .28 | .67 | .23 | .25 | 4.49 | 2.89 | 1000 lbs | **RH10R129** | Price |
| R131 | 6.64 | 2.92 | 1.50 | 1.63 | 1.5 | 1.50 | .34 | 1.19 | .31 | .91 | 5.37 | 3.53 | 2000 lbs | **RH10R131** | Price |
| R134 | 8.31 | 1.44 | 2.00 | .75 | 1.38 | 2.00 | .22 | - | .32 | - | 3.11 | 1.53 | 375 lbs | **RH10R134** | Price |

## RAPIDHOLD Stainless Steel Horizontal Handle Toggle Clamps

- Medium duty
- Low profile
- Solid bar model supplied with nylon spindle
- U-bar model supplied with flanged washers and cushion tipped spindle

New!



| Model No. | Overall Height (in.) | OAL (in.) | Height Under Clamp Arm (in.) | Mounting Length (in.) | Mounting Width (in.) | Base Width (in.) | Distance From Base to Clamp Bar (in.) | Mount Dia. (in.) | Spindle Size (in.) | Holding Capactiy | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R160 | 1.87 | 6.62 | 1.37 | 1.00 | .87 | 1.38 | 2.76 | .35 | 5/16-18 x 3.00 | 500 lbs | **RH10R160** | Price |
| R164 | 1.39 | 2.25 | 1.58 | .53 | .65 | 1.00 | 1.21 | .17 | 3/16-24 x 1.38 | 150 lbs | **RH10R164** | Price |
| R244 | 1.5 | 5.59 | 1 | 1.00 | .87 | 1.42 | 1.00 | .25 | #8-32 x 0.75 | 200 ;bs | **RH10R244** | Price |

## RAPIDHOLD Stainless Steel Vertical Clamps

- Light to medium duty
- U-bar model supplied with flanged washers and cushion tipped spindle
- Solid bar model supplied with cushion tipped spindle
- Stainless steel clamps are heat resisting non-magnetic stainless steel in the annealed state and slightly magnetic when cold worked

New!



| Model No. | Bar Style | Overall Height (in.) | OAL (in.) | Height Under Clamp Arm. (in.) | Mounting Length (in.) | Base Length (in.) | Base Width (in.) | Distance From Base to Clamp Bar (in.) | Holding Capacity | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 17020 | U-Bar | 2.49 | 3.68 | .89 | .91 | 1.37 | 1.72 | 1.93 | 350 lbs | **RH1017020** | Price |
| R102 | U-Bar | 3.05 | 2.13 | 0.74 | .63 | 1.00 | 1.31 | 1.03 | 100 lbs | **RH10R102** | Price |
| R107 | U-Bar | 3.94 | 2.52 | 0.89 | .50 | 1.00 | 1.56 | 1.06 | 200 lbs | **RH10R107** | Price |
| R111 | U-Bar | 5.67 | 5.5 | 1.25 | .75 | 1.37 | 1.81 | 2.81 | 500 lbs | **RH10R111** | Price |

## DESTACO Pneumatic Cylinders - Horizontal

- Designed for dirty environments such as spot or MIG welding
- Comes with magnetic ring for sensing
- The non-pivoting cylinder can be hard-piped into a fixture

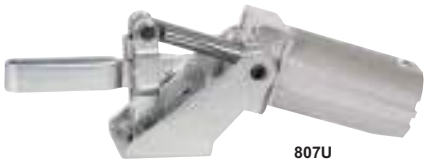
MADE IN THE USA



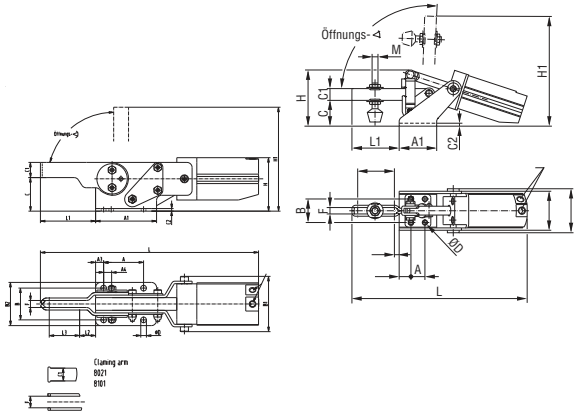
847S



8071



807U




| Bar Style - Solid | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Holding Capacity | Std. Equip. (Spindle, Flanged Washers or Bolt Retainer) | A (in.) | B (in.) | C (in.) | OD (in.) | H (in.) | L (in.) | M (in.) | Opening ± 5° | Order No. | Price |
| 500 lbs | 207105 Bolt Retainer | .75 | 1.25 | 1.38 | .30 | 3.30 | 10.33 | M8 | 97° | **MA51807S** | Price |
| 750 lbs | - | 1.00 | 1.50 | 1.61 | .28 | 3.29 | 10.80 | - | 98° | **MA51846** | Price |
| 750 lbs | 210114 Bolt Retainer | 1.25 | 1.79 | 1.81 | .34 | 3.79 | 12.22 | M10 | 99° | **MA51810S** | Price |
| 1000 lbs | 247110 Bolt Retainer | 1.25 | 1.78 | 2.25 | .34 | 4.40 | 15.90 | M12 | 94° | **MA51847S** | Price |
| 4000 lbs | - | 4.25 | 2.75 | 3.85 | .41 | 7.12 | 17.52 | - | 97° | **MA51858** | Price |

| Bar Style - U-Shape | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Holding Capacity | Std. Equip. (Spindle, Flanged Washers or Bolt Retainer) | A (in.) | B (in.) | C (in.) | OD (in.) | H (in.) | L (in.) | M (in.) | Opening ± 5° | Order No. | Price |
| 100 lbs | 305208-M Spindle | .63 | .94 | .68 | .17 | 1.55 | 5.59 | M5 | 99° | **MA51812U** | Price |
| 200 lbs | 202208-M Spindle | .50 | 1.06 | 1.06 | .22 | 2.55 | 7.69 | M6 | 102° | **MA51802U** | Price |
| 375 lbs | 507107 Flanged Washer | .75 | 1.25 | 1.38 | .28 | 3.00 | 9.33 | M8 | 103° | **MA51807U** | Price |
| 390 lbs | 8021122 Flanged Washer | .79 | 1.50 | 1.56 | .21 | 2.40 | 9.86 | 1/4 or M6 | 90° | **MA518021** | Price |
| 450 lbs | 507107 Flanged Washer | 1.97 | 1.56 | 1.65 | .28 | 2.63 | 10.74 | 5/16 or M8 | 90° | **MA518071** | Price |
| 600 lbs | 235106 Flanged Washer | 1.25 | 1.79 | 1.79 | .34 | 3.79 | 11.70 | M10 | 99° | **MA51810U** | Price |
| 1000 lbs | 247109 Flanged Washer | 1.25 | 1.78 | 2.25 | .34 | 4.40 | 15.25 | M12 | 94° | **MA51847U** | Price |

## DESTACO Pneumatic Cylinders – Vertical

- Used with rotary indexing tables and injection molding operations
- All 3 models can be mounted on the sides of a fixture
- 817 & 827 can also be top mounted

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817U

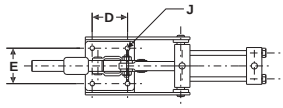
| Bar Style - Solid | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Holding Capacity | Std. Equip.(Spindle, Flanged Washers or Bolt Retainer | A (in.) | B (in.) | C (in.) | OD (in.) | H (in.) | L (in.) | M (in.) | Opening ± 5° | Order No. | Price |
| 450 lbs | Bolt Retainer | .63 | 1.00 | 2.69 | .27 | 7.51 | 6.97 | 5/16 or M8 | 95° | **MA51817S** | Price |
| 700 lbs | Bolt Retainer | 1.25 | 1.75 | 3.91 | .33 | 9.04 | 8.49 | 3/8 or M10 | 88° | **MA51827S** | Price |
| 4000 lbs | None | 1.63 | 2.25 | 4.20 | .41 | 13.50 | 10.17 | - | 91° | **MA51868** | Price |

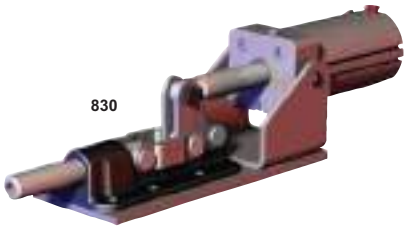
| Bar Style - U-Shape | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Holding Capacity | Std. Equip.(Spindle, Flanged Washers or Bolt Retainer | A (in.) | B (in.) | C (in.) | OD (in.) | H (in.) | L (in.) | M (in.) | Opening ± 5° | Order No. | Price |
| 375 lbs | 507107 Flanged Washer | .63 | 1.00 | 2.69 | .27 | 7.51 | 6.24 | 5/16 or M8 | 95° | **MA51817U** | Price |
| 600 lbs | 235106 Flanged Washer | 1.25 | 1.75 | 3.89 | .33 | 9.04 | 8.61 | 3/8 or M10 | 88° | **MA51827U** | Price |

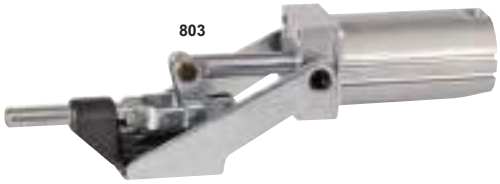
## DESTACO Straight Action Pneumatic Clamps

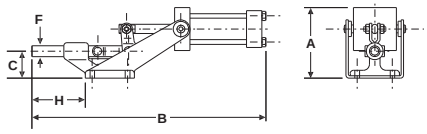
- Ideal for production end runs
- Large open angles
- Locks into place over center positioin when clamped
- Remains closed even if exposed to vibration

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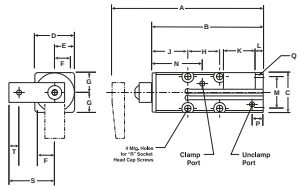




| Bar Style | Holding Capacity | Plunger Travel | Port Size | A (in.) | B (in.) | C1 (in.) | OD (in.) | H (in.) | L (in.) | L3 (in.) | M | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Plunger | 16000 lbs | 2.00 | 1/4 NPT | 2.75 | 2.25 | 2.63 | .41 | 7.21 | 20.56 | 2.00 | 5/8-11 | **MA51850** | Price |
| Plunger | 2500 lbs | 1.25 | 1/8 NPT | 1.38 | 1.63 | 1.06 | .34 | 3.59 | 13.40 | 1.25 | 3/8-16 | **MA51830** | Price |
| Plunger | 600 lbs | .75 | 1/8 NPT | 1.44 | 1.31 | 1.09 | .27 | 2.93 | 9.86 | 1.00 | 5/16-18 | **MA51803** | Price |

## DESTACO Pneumatic Swing Cylinder Clamps

- 90° Swing of clamping arm
- 3/8” Clamping stroke (vertical arm) adjust automatically on every cycle
- Clamping force is adjustable across a wide range: 20 lbs to 160 lbs
- Intended for quick clamping in secondary manufacturing operations on metallic or non-metallic products

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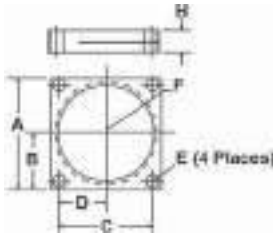
| Type - Block Style Pneumatic Swing Cylinder | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Swing | Arm Supplied | Spindle Supplied | Travel During Rotation | Vertical Clamp Stroke | Max. Arm Length | A (in.) | B (in.) | C (in.) | D (in.) | F (in.) | S (in.) | T (in.) | Port Size (in.) | Order No. | Price |
| RH | 801528 | 305203 | .466 | .38 | 2.25 | 4.88 | 3.5 | 1.25 | 1-1/4 | .47 | 1.44 | .31 | 10-32 | **MA518115** | Price |
| LH | 801528 | 305203 | .466 | .38 | 2.25 | 4.88 | 3.5 | 1.25 | 1-1/4 | .47 | 1.44 | .31 | 10-32 | **MA518116** | Price |
| RH | 821512 | 485203-AL | .75 | .50 | 3 | 6.36 | 4.27 | 3 | 2 | .72 | 2.38 | .38 | 1/8 NPT | **MA518315** | Price |
| LH | 821512 | 485203-AL | .75 | .50 | 3 | 6.36 | 4.27 | 3 | 2 | .72 | 2.38 | .38 | 1/8 NPT | **MA518316** | Price |

| Type - Round Threaded Body Pneumatic Swing Cylinder | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Swing | Arm Supplied | Spindle Supplied | Travel During Rotation | Vertical Clamp Stroke | Max. Arm Length | A (in.) | B (in.) | C (in.) | D (in.) | F (in.) | S (in.) | T (in.) | Port Size (in.) | Order No. | Price |
| RH | 801528 | 305203 | .466 | .38 | 2.25 | 4.88 | 2.87 | - | 1-1/8-16 | - | - | .30 | 10-32 | **MA518015** | Price |
| LH | 801528 | 305203 | .466 | .38 | 2.25 | 4.88 | 2.87 | - | 1-1/8-16 | - | - | .30 | 10-32 | **MA518016** | Price |
| RH | 821512 | 485203-AL | .75 | .50 | 3 | 6.36 | 3.36 | - | 2-1/4-12 | 1.16 | - | .38 | 1/8 NPT | **MA518215** | Price |
| LH | 821512 | 485203-AL | .75 | .50 | 3 | 6.36 | 3.36 | - | 2-1/4-12 | 1.16 | - | .38 | 1/8 NPT | **MA518216** | Price |
| RH | 841512 | 485203-AL | .75 | .50 | 3 | 6.14 | 3.17 | - | 1-3/4-12 | .98 | - | .38 | 1/8 NPT | **MA518415** | Price |
| LH | 841512 | 485203-AL | .75 | .50 | 3 | 6.14 | 3.17 | - | 1-3/4-12 | .98 | - | .38 | 1/8 NPT | **MA518416** | Price |

## DESTACO Mounting Block Pneumatic Swing Cylinder Mounting Flanges

- For use with threaded body pneumatic swing clamps
- Variable height adjustment
- For recessed mounting





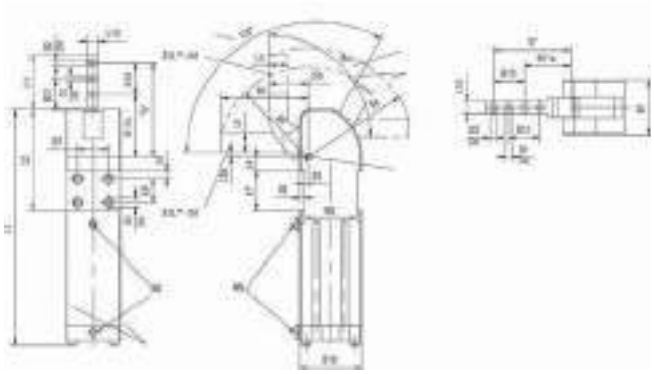

| For Use With Series | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | H (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 8015, 8016 | 1.38 | .69 | 1.08 | .54 | .20 | 1-1/8-16 | .50 | **MA51801553** | Price |
| 8215, 8216 | 2-1/2 | 1.25 | 2.12 | 1.06 | .28 | 2-1/4-12 | .50 | **MA51821553** | Price |
| 8415, 8416 | 2 | 1.00 | 1.60 | .80 | .28 | 1-3/4-12 | .50 | **MA51841550** | Price |

## DESTACO 81L - Pneumatic Power Clamps

- Lightweight, aluminum body
- Two mounting areas; front and side
- Toggle-action mechanism
- Can be quickly retrofitted with magnetic sensing system

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| Clamping Arm - Horizontal Arm | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Holding Torque (Max.) | Clamping Torque (Max. @ 72 PSIG) | Max. add'l wt. at clamp arm mtd. in position "X" (lbs.) | OD1 H7 (mm) | OD2 (mm) | OD3 | B1 (mm) | B7 ±0.1 (mm) | B10 ±0.2 (mm) | B11a (mm) | B11b (mm) | B12 (mm) | B18 (mm) | L1 (mm) | L9 (mm) | Order No. | Price |
| 18.4 in-ft/lb | 3.3 in-ft/lb | .40 lbs | 3 | 3.3 | M4 x 6 | 24 | 15 | 9 | 27 | 31.5 | 9 | 28 | 104 | 9 | **MA5181L12101** | Price |
| 44 in-ft/lb | 4.8 in-ft/lb | .60 lbs | 3 | 4.3 | M5 x 5 | 30 | 20 | 15 | 30 | 39.5 | 15 | 30 | 119 | 12 | **MA5181L16101** | Price |
| 73.8 in-ft/lb | 13.3 in-ft/lb | 1.1 lbs | 4 | 4.5 | M6 x 8 | 35 | 20 | 20 | 30.5 | 40 | 20 | 40 | 151 | 15 | **MA5181L20101** | Price |
| 73.8 in-ft/lb | 13.3 in-ft/lb | 1.2 lbs | 4 | 6.5 | M6 x 8 | 35 | 20 | 20 | 40.5 | 50 | 20 | 40 | 151 | 15 | **MA5181L25101** | Price |

| Clamping Arm - Vertical Arm | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Holding Torque (Max.) | Clamping Torque (Max. @ 72 PSIG) | Max. add'l wt. at clamp arm mtd. in position "X" (lbs.) | OD1 H7 (mm) | OD2 (mm) | OD3 | B1 (mm) | B7 ±0.1 (mm) | B10 ±0.2 (mm) | B11a (mm) | B11b (mm) | B12 (mm) | B18 (mm) | L1 (mm) | L9 (mm) | Order No. | Price |
| 14.8 in-ft/lb | 3.3 in-ft/lb | .40 lbs | 3 | 3.3 | M4 x 6 | 24 | 15 | 9 | 27 | 31.5 | 9 | 28 | 104 | 9 | **MA5181L12141** | Price |
| 29.5 in-ft/lb | 5.23 in-ft/lb | .60 lbs | 3 | 4.3 | M5 x 5 | 30 | 20 | 15 | 30 | 39.5 | 15 | 30 | 119 | 12 | **MA5181L16141** | Price |
| 59 in-ft/lb | 12.5 in-ft/lb | 1.2 lbs | 4 | 4.5 | M6 x 8 | 35 | 20 | 20 | 30.5 | 40 | 20 | 40 | 151 | 15 | **MA5181L20141** | Price |
| 59 in-ft/lb | 12.5 in-ft/lb | 1.25 lbs | 4 | 6.5 | M6 x 8 | 35 | 20 | 20 | 40.5 | 50 | 20 | 40 | 151 | 15 | **MA5181L25141** | Price |

## DESTACO Pneumatic Power Clamp Sensors

- Sensors are activated by a magnetic ring installed on the cylinder piston
- All sensors feature an LED for easy set-up
- IP67 rated
- Temperature Range: -10°C to 60°C (14°F to 140°F)

MADE IN THE USA



| Connection | Brief | Operating Voltage | Switching Current | Description | Order No. | Price |
|---|---|---|---|---|---|---|
| M8 Male Quick Connect | NPN | 4.5-28V DC | 100mA | Sensor, 4mm, NPN-NO, DC, 6" male connector | **MA51810174** | Price |
| M8 Male Quick Connect | PNP | 4.5-28V DC | 100mA | Sensor, 4mm, PNP-NO, DC, 6" male connector | **MA51810173** | Price |
| M8 Male Quick Connect | Reed | 5-120V AC/DC | 50mA | Sensor, 4mm, SPST-NO, AC/DC, 6" male connector | **MA51810169** | Price |

## TE-CO Spring & Ball Plunger Wrenches

- Designed to eliminate excessive spring compression during installation and removal of spring and ball plungers



MADE IN THE USA

| Fits Thread Size Inches | Fits Thread Size Metric | Order No. | Price |
|---|---|---|---|
| 6-32 | - | **SG5053001** | Price |
| 8-32 | M4 | **SG5053002** | Price |
| 10-32 | M5 | **SG5053003** | Price |
| 1/4-20 | M6 | **SG5053004** | Price |
| 5/16-18 | M8 | **SG5053005** | Price |

| Fits Thread Size Inches | Fits Thread Size Metric | Order No. | Price |
|---|---|---|---|
| 3/8-16 | M10 | **SG5053006** | Price |
| 1/2-13 | M12 | **SG5053007** | Price |
| 5/8-11 | - | **SG5053008** | Price |
| 3/4-10 | - | **SG5053009** | Price |
| 1-8 | - | **SG5053010** | Price |

## Standard Ball Plungers

**Stainless steel ball – bodies color coded to indicate end forces**

- Cadmium plate = Light force
- Black = Standard force
- Gold = Heavy fForce

MADE IN THE USA





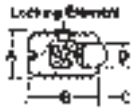
| Thread A | B (in.) | C | Ball Dia. D | Initial End Force lbs. | Final End Force lbs. | Body Color Code | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 4-48 | 3/16 | .020 | .062 | .12 | .50 | Black | **SG5052821** | Price |
| 5-40 | 1/4 | .020 | .062 | .25 | .75 | Black | **SG5052822** | Price |
| 6-40 | 5/16 | .023 | .078 | .50 | 1.0 | Black | **SG5052823** | Price |
| 8-32 | 11/32 | .025 | .093 | .50 | 1.25 | Black | **SG5052825** | Price |
| 8-36 | 11/32 | .025 | .093 | .50 | 1.25 | Black | **SG5052824** | Price |
| 10-32 | 33/64 | .025 | .093 | .50 | 1.5 | Cadmium | **SG5052801** | Price |
| 10-32 | 33/64 | .025 | .093 | 1.5 | 3.0 | Black | **SG5052802** | Price |
| 10-32 | 33/64 | .025 | .093 | 2.0 | 5.0 | Gold | **SG5052803** | Price |
| 1/4-20 | 17/32 | .035 | .125 | 2.0 | 4.0 | Cadmium | **SG5052804** | Price |
| 1/4-20 | 17/32 | .035 | .125 | 3.0 | 7.0 | Black | **SG5052805** | Price |
| 1/4-20 | 17/32 | .035 | .125 | 4.0 | 12.0 | Gold | **SG5052806** | Price |
| 5/16-18 | 37/64 | .040 | .156 | 2.0 | 4.5 | Cadmium | **SG5052807** | Price |
| 5/16-18 | 37/64 | .040 | .156 | 4.0 | 9.0 | Black | **SG5052808** | Price |
| 5/16-18 | 37/64 | .040 | .156 | 6.0 | 17.0 | Gold | **SG5052809** | Price |
| 3/8-16 | 5/8 | .048 | .187 | 2.5 | 5.0 | Cadmium | **SG5052810** | Price |
| 3/8-16 | 5/8 | .048 | .187 | 5.0 | 10.0 | Black | **SG5052811** | Price |
| 3/8-16 | 5/8 | .048 | .187 | 6.0 | 21.0 | Gold | **SG5052812** | Price |
| 1/2-13 | 3/4 | .072 | .281 | 3.0 | 6.0 | Cadmium | **SG5052813** | Price |
| 1/2-13 | 3/4 | .072 | .281 | 6.0 | 12.0 | Black | **SG5052814** | Price |
| 1/2-13 | 3/4 | .072 | .281 | 6.0 | 30.0 | Gold | **SG5052815** | Price |
| 5/8-11 | 63/64 | .096 | .375 | 4.5 | 9.0 | Cadmium | **SG5052816** | Price |
| 5/8-11 | 63/64 | .096 | .375 | 7.0 | 50.0 | Gold | **SG5052818** | Price |
| 5/8-11 | 63/64 | .096 | .375 | 9.0 | 18.0 | Black | **SG5052817** | Price |

## Ball Plungers Stainless Steel Bodies

**Bodies color coded to indicate end forces**

- Plain stainless steel = Light force
- Black = Standard force
- Gold = Heavy force

MADE IN THE USA





| Thread A | B (in.) | C | Ball Dia. D | Initial End Force lbs. | Final End Force lbs. | Body Color Code | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 4-48 | 3/16 | .020 | .062 | .12 | .50 | Plain | **SG5052901** | Price |
| 5-40 | 1/4 | .020 | .062 | .25 | .75 | Plain | **SG5052902** | Price |
| 6-40 | 5/16 | .023 | .078 | .50 | 1.0 | Plain | **SG5052903** | Price |
| 8-32 | 11/32 | .025 | .093 | .50 | 1.25 | Plain | **SG5052923** | Price |
| 8-36 | 11/32 | .025 | .093 | .50 | 1.25 | Plain | **SG5052904** | Price |
| 10-32 | 33/64 | .025 | .093 | .50 | 1.5 | Plain | **SG5052905** | Price |
| 10-32 | 33/64 | .025 | .093 | 1.5 | 3.0 | Black | **SG5052906** | Price |
| 10-32 | 33/64 | .025 | .093 | 2.0 | 5.0 | Gold | **SG5052907** | Price |
| 1/4-20 | 17/32 | .035 | .125 | 2.0 | 4.0 | Plain | **SG5052908** | Price |
| 1/4-20 | 17/32 | .035 | .125 | 3.0 | 7.0 | Black | **SG5052909** | Price |
| 1/4-20 | 17/32 | .035 | .125 | 4.0 | 12.0 | Gold | **SG5052910** | Price |
| 5/16-18 | 37/64 | .040 | .156 | 2.0 | 4.5 | Plain | **SG5052911** | Price |
| 5/16-18 | 37/64 | .040 | .156 | 4.0 | 9.0 | Black | **SG5052912** | Price |
| 5/16-18 | 37/64 | .040 | .156 | 6.0 | 17.0 | Gold | **SG5052913** | Price |
| 3/8-16 | 5/8 | .048 | .187 | 2.5 | 5.0 | Plain | **SG5052914** | Price |
| 3/8-16 | 5/8 | .048 | .187 | 5.0 | 10.0 | Black | **SG5052915** | Price |
| 3/8-16 | 5/8 | .048 | .187 | 6.0 | 21.0 | Gold | **SG5052916** | Price |
| 1/2-13 | 3/4 | .072 | .281 | 3.0 | 6.0 | Plain | **SG5052917** | Price |
| 1/2-13 | 3/4 | .072 | .281 | 6.0 | 12.0 | Black | **SG5052918** | Price |
| 1/2-13 | 3/4 | .072 | .281 | 6.0 | 30.0 | Gold | **SG5052919** | Price |
| 5/8-11 | 63/64 | .096 | .375 | 4.5 | 9.0 | Plain | **SG5052920** | Price |
| 5/8-11 | 63/64 | .096 | .375 | 7.0 | 50.0 | Gold | **SG5052922** | Price |
| 5/8-11 | 63/64 | .096 | .375 | 9.0 | 18.0 | Black | **SG5052921** | Price |

**LOCKING ELEMENT IS STANDARD ON ALL SIZES**

## Steel & Stainless Steel Light End Force Short Spring Plungers

- Excellent wear resistance

**Steel Body Plungers:**

- 12L14 Steel body
- Black oxide finish
- Case hardened 12L14 steel nose, zinc plated

MADE IN THE USA

**Stainless Steel Body Plungers:**

- 303 Stainless steel body and nose





| | | | | | | Stainless Steel Body | | Zinc Plated | |
|---|---|---|---|---|---|---|---|---|---|
| Thread Size (A) | Thread Length (B) | End of Ball to Thread (C) | Ball Dia. (D) | Initial End Force lbs | Final End Force lbs | Order No. | Price | Order No. | Price |
| 6-32 | 3/8 | .036 | .046 | .50 | 1.5 | **SG5053508** | Price | **SG5052608** | Price |
| 8-32 | 7/16 | .052 | .070 | .50 | 1.5 | **SG5053509** | Price | **SG5052609** | Price |
| 8-36 | 7/16 | .052 | .069 | .50 | 1.5 | **SG5053501** | Price | **SG5052601** | Price |
| 10-32 | 15/32 | .065 | .093 | .75 | 2.5 | **SG5053502** | Price | **SG5052602** | Price |
| 1/4-20 | 17/32 | .078 | .119 | 1.0 | 3.5 | **SG5053503** | Price | **SG5052603** | Price |
| 5/16-18 | 9/16 | .084 | .135 | 1.5 | 4.0 | **SG5053504** | Price | **SG5052604** | Price |
| 3/8-16 | 5/8 | .110 | .186 | 1.5 | 5.0 | **SG5053505** | Price | **SG5052605** | Price |
| 1/2-13 | 3/4 | .151 | .248 | 1.75 | 5.5 | **SG5053506** | Price | **SG5052606** | Price |
| 5/8-11 | 1-1/16 | .215 | .310 | 2.0 | 8.5 | **SG5053507** | Price | **SG5052607** | Price |

## Steel & Stainless Steel Light End Force Standard Spring Plungers

- Excellent wear resistance

**Steel Body Plungers:**

- 12L14 Steel body
- Black oxide finish
- Case hardened 12L14 steel nose, zinc plated

MADE IN THE USA

**Stainless Steel Body Plungers:**

- 303 Stainless steel body & nose





| | | | | | | Stainless Steel Body | | Steel Body | |
|---|---|---|---|---|---|---|---|---|---|
| Thread Size (A) | Thread Length (B) | End of Ball to Thread (C) | Ball Dia. (D) | Initial End Force lbs | Final End Force lbs | Order No. | Price | Order No. | Price |
| 6-32 | 17/32 | .062 | .046 | .50 | 1.5 | **SG5053301** | Price | **SG5052201** | Price |
| 8-32 | 5/8 | .093 | .070 | .70 | 2.3 | **SG5053302** | Price | **SG5052202** | Price |
| 10-32 | 3/4 | .125 | .093 | 1.3 | 2.7 | **SG5053303** | Price | **SG5052203** | Price |
| 1/4-20 | 1 | .187 | .119 | 1.0 | 4.0 | **SG5053305** | Price | **SG5052204** | Price |
| 1/4-28 | 1 | .187 | .119 | 1.0 | 4.0 | **SG5053306** | Price | **SG5052205** | Price |
| 5/16-18 | 1 | .187 | .135 | 1.5 | 4.5 | **SG5053304** | Price | **SG5052206** | Price |
| 3/8-16 | 1-1/8 | .187 | .186 | 2.8 | 7.2 | **SG5053307** | Price | **SG5052207** | Price |
| 1/2-13 | 1-1/4 | .250 | .248 | 2.7 | 9.3 | **SG5053309** | Price | **SG5052208** | Price |
| 5/8-11 | 1-1/2 | .312 | .310 | 3.5 | 10.5 | **SG5053310** | Price | **SG5052209** | Price |
| 3/4-10 | 1-3/4 | .312 | .374 | 4.0 | 16.0 | **SG5053311** | Price | **SG5052210** | Price |
| 1-8 | 2-13/32 | .500 | .499 | 4.0 | 31.0 | **SG5053312** | Price | **SG5052211** | Price |

## White Delrin® Light End Force Short Spring Plungers

- Ideal for aluminum, brass or any soft, easily marred material

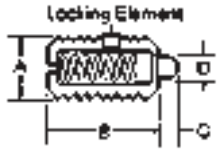
**Steel Body Plungers:**

- 12L14 Steel body
- Black oxide finish
- White Delrin® nose

**Stainless Steel Body Plungers:**

- 303 Stainless steel body
- Insulating Delrin® plungers

MADE IN THE USA






| | | | | | | Stainless Steel Body | | Steel Body | |
|---|---|---|---|---|---|---|---|---|---|
| Thread Size (A) | Thread Length (B) | End of Ball to Thread (C) | Ball Dia. (D) | Initial End Force lbs | Final End Force lbs | Order No. | Price | Order No. | Price |
| 6-32 | 3/8 | .036 | .046 | .50 | 1.5 | **SG5053527** | Price | **SG5052708** | Price |
| 8-32 | 7/16 | .052 | .070 | .50 | 1.5 | **SG5053528** | Price | **SG5052709** | Price |
| 8-36 | 7/16 | .052 | .070 | .50 | 1.5 | **SG5053520** | Price | **SG5052701** | Price |
| 10-32 | 15/32 | .065 | .093 | .75 | 2.5 | **SG5053521** | Price | **SG5052702** | Price |
| 1/4-20 | 17/32 | .078 | .119 | 1.0 | 3.5 | **SG5053522** | Price | **SG5052703** | Price |
| 5/16-18 | 9/16 | .084 | .135 | 1.5 | 4.0 | **SG5053523** | Price | **SG5052704** | Price |
| 3/8-16 | 5/8 | .110 | .186 | 1.5 | 5.0 | **SG5053524** | Price | **SG5052705** | Price |
| 1/2-13 | 3/4 | .151 | .248 | 1.75 | 5.5 | **SG5053525** | Price | **SG5052706** | Price |
| 5/8-11 | 1-1/16 | .215 | .310 | 2.0 | 8.5 | **SG5053526** | Price | **SG5052707** | Price |

## White Delrin® Light End Force Standard Spring Plungers

- Ideal for aluminum, brass, or any soft, easily marred material

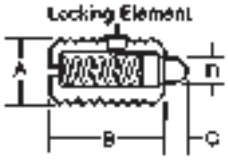
**Steel Body Plungers:**

- 12L14 Steel body
- Black oxide finish
- White Delrin® nose

**Stainless Steel Body Plungers:**

- 303 Stainless steel body
- White Delrin® nose

MADE IN THE USA






| | | | | | | Stainless Steel Body | | Steel Body | |
|---|---|---|---|---|---|---|---|---|---|
| Thread Size (A) | Thread Length (B) | End of Ball to Thread (C) | Ball Dia. (D) | Initial End Force lbs | Final End Force lbs | Order No. | Price | Order No. | Price |
| 8-32 | 5/8 | .093 | .070 | .70 | 2.3 | **SG5053313** | Price | **SG5052301** | Price |
| 10-32 | 3/4 | .125 | .093 | 1.3 | 2.7 | **SG5053314** | Price | **SG5052302** | Price |
| 1/4-20 | 1 | .187 | .119 | 1.0 | 4.0 | **SG5053315** | Price | **SG5052303** | Price |
| 1/4-28 | 1 | .187 | .118 | 1.0 | 4.0 | **SG5053320** | Price | **SG5052308** | Price |
| 5/16-18 | 1 | .187 | .135 | 1.5 | 4.5 | **SG5053316** | Price | **SG5052304** | Price |
| 3/8-16 | 1-1/8 | .187 | .186 | 2.8 | 7.2 | **SG5053317** | Price | **SG5052305** | Price |
| 1/2-13 | 1-1/4 | .250 | .248 | 2.7 | 9.3 | **SG5053318** | Price | **SG5052306** | Price |
| 5/8-11 | 1-1/2 | .312 | .310 | 3.5 | 10.5 | **SG5053319** | Price | **SG5052307** | Price |

## Carbon & Stainless Steel Heavy End Force Short Spring Plungers with Locking Element

- Excellent wear resistance

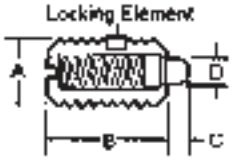
**Steel Body Plungers:**

- 12L14 Steel body
- Black oxide finish
- Case hardened 12L14 steel nose, black oxide

**Stainless Steel Body Plungers:**

- 303 Stainless steel body and nose

MADE IN THE USA






| | | | | | | Stainless Steel Body | | Steel Body | |
|---|---|---|---|---|---|---|---|---|---|
| Thread Size (A) | Thread Length (B) | End of Ball to Thread (C) | Ball Dia. (D) | Initial End Force lbs | Final End Force lbs | Order No. | Price | Order No. | Price |
| 6-32 | 3/8 | .036 | .046 | .50 | 3.5 | **SG5053408** | Price | **SG5052408** | Price |
| 8-32 | 7/16 | .052 | .070 | 1.5 | 4.75 | **SG5053409** | Price | **SG5052409** | Price |
| 8-36 | 7/16 | .052 | .069 | 1.5 | 4.75 | **SG5053401** | Price | **SG5052401** | Price |
| 10-32 | 15/32 | .065 | .093 | 1.75 | 6.25 | **SG5053402** | Price | **SG5052402** | Price |
| 1/4-20 | 17/32 | .078 | .119 | 3.0 | 10.5 | **SG5053403** | Price | **SG5052403** | Price |
| 5/16-18 | 9/16 | .084 | .135 | 3.75 | 15.5 | **SG5053404** | Price | **SG5052404** | Price |
| 3/8-16 | 5/8 | .110 | .186 | 4.5 | 18.5 | **SG5053405** | Price | **SG5052405** | Price |
| 1/2-13 | 3/4 | .151 | .248 | 5.0 | 28.0 | **SG5053406** | Price | **SG5052406** | Price |
| 5/8-11 | 1-1/16 | .215 | .310 | 7.0 | 50.0 | **SG5053407** | Price | **SG5052407** | Price |

## Carbon & Stainless Steel Heavy End Force Spring Plungers with Locking Element

- Excellent wear resistance

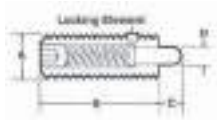
**Steel Body Plungers:**

MADE IN THE USA

- 12L14 Steel body
- Black oxide finish
- Case hardned 12L14 steel nose, black oxide finish

**Stainless Steel Body Plungers:**

- 303 Stainless steel body and nose





| | | | | | | Stainless Steel Body | | Steel Body | |
|---|---|---|---|---|---|---|---|---|---|
| Thread Size (A) | Thread Length (B) | End of Ball to Thread (C) | Ball Dia. (D) | Initial End Force lbs | Final End Force lbs | Order No. | Price | Order No. | Price |
| 6-32 | 3/8 | .062 | .046 | 1.0 | 1.6 | **SG5053202** | Price | **SG5052002** | Price |
| 6-32 | 17/32 | .062 | .046 | 1.5 | 4.5 | **SG5053201** | Price | **SG5052001** | Price |
| 8-32 | 5/8 | .093 | .070 | 2.7 | 7.3 | **SG5053203** | Price | **SG5052003** | Price |
| 10-32 | 3/4 | .125 | .093 | 2.9 | 11.1 | **SG5053204** | Price | **SG5052004** | Price |
| 1/4-20 | 3/4 | .125 | .119 | 2.0 | 9.0 | **SG5053207** | Price | **SG5052007** | Price |
| 1/4-20 | 1 | .187 | .119 | 3.0 | 13.0 | **SG5053205** | Price | **SG5052005** | Price |
| 1/4-28 | 1 | .187 | .119 | 3.0 | 13.0 | **SG5053206** | Price | **SG5052006** | Price |
| 5/16-18 | 1 | .187 | .135 | 3.0 | 15.0 | **SG5053208** | Price | **SG5052008** | Price |
| 3/8-16 | 1-1/8 | .187 | .186 | 5.5 | 14.5 | **SG5053209** | Price | **SG5052009** | Price |
| 1/2-13 | 1-1/4 | .250 | .248 | 6.6 | 17.4 | **SG5053210** | Price | **SG5052010** | Price |
| 5/8-11 | 1-1/2 | .312 | .310 | 10.5 | 25.5 | **SG5053211** | Price | **SG5052011** | Price |
| 3/4-10 | 1-3/4 | .312 | .374 | 6.7 | 37.3 | **SG5053212** | Price | **SG5052012** | Price |
| 1-8 | 2-13/32 | .500 | .499 | 16.0 | 68.0 | **SG5053213** | Price | **SG5052013** | Price |

## Black Delrin® Heavy End Force Short Spring Plungers with Locking Element

- Ideal for aluminum, brass or any soft, easily marred material

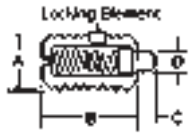
**Steel Body Plungers:**

MADE IN THE USA

- 12L14 Steel body
- Zinc plated clear chromate finish
- Black Delrin® nose

**Stainless Steel Body Plungers:**

- 303 Stainless steel body
- Black Delrin® nose






| | | | | | | Stainless Steel Body | | Steel Body | |
|---|---|---|---|---|---|---|---|---|---|
| Thread Size (A) | Thread Length (B) | End of Ball to Thread (C) | Ball Dia. (D) | Initial End Force lbs | Final End Force lbs | Order No. | Price | Order No. | Price |
| 6-32 | 3/8 | .036 | .046 | .50 | 3.5 | **SG5053427** | Price | **SG5052508** | Price |
| 8-32 | 7/16 | .052 | .070 | 1.5 | 4.75 | **SG5053428** | Price | **SG5052509** | Price |
| 8-36 | 7/16 | .052 | .070 | 1.5 | 4.75 | **SG5053420** | Price | **SG5052501** | Price |
| 10-32 | 15/32 | .065 | .093 | 1.75 | 6.25 | **SG5053421** | Price | **SG5052502** | Price |
| 1/4-20 | 17/32 | .078 | .119 | 3.0 | 10.5 | **SG5053422** | Price | **SG5052503** | Price |
| 5/16-18 | 9/16 | .084 | .135 | 3.75 | 15.5 | **SG5053423** | Price | **SG5052504** | Price |
| 3/8-16 | 5/8 | .110 | .186 | 4.5 | 18.5 | **SG5053424** | Price | **SG5052505** | Price |
| 1/2-13 | 3/4 | .151 | .248 | 5.0 | 28.0 | **SG5053425** | Price | **SG5052506** | Price |
| 5/8-11 | 1-1/16 | .215 | .310 | 7.0 | 50.0 | **SG5053426** | Price | **SG5052507** | Price |

## Black Delrin® Heavy End Force Standard Spring Plungers with Locking Element

- Ideal for aluminum, brass or any soft, easily marred material

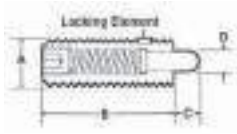
**Steel Body Plungers:**

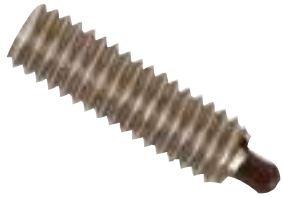
MADE IN THE USA

- 12L14 Steel body
- Black oxide finish
- Black Delrin® nose

**Stainless Steel Body Plungers:**

- 303 Stainless steel body
- Black Delrin® nose



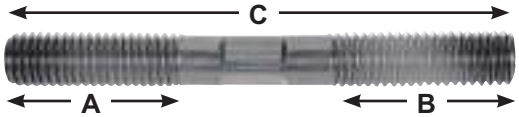


| | | | | | | Stainless Steel Body | | Steel Body | |
|---|---|---|---|---|---|---|---|---|---|
| Thread Size (A) | Thread Length (B) | End of Ball to Thread (C) | Ball Dia. (D) | Initial End Force lbs | Final End Force lbs | Order No. | Price | Order No. | Price |
| 8-32 | 5/8 | .093 | .070 | 2.7 | 7.3 | **SG5053220** | Price | **SG5052101** | Price |
| 10-32 | 3/4 | .125 | .093 | 2.9 | 11.1 | **SG5053221** | Price | **SG5052102** | Price |
| 1/4-20 | 3/4 | .125 | .118 | 2.0 | 9.0 | **SG5053228** | Price | **SG5052109** | Price |
| 1/4-20 | 1 | .187 | .119 | 3.0 | 13.0 | **SG5053222** | Price | **SG5052103** | Price |
| 1/4-28 | 1 | .187 | .118 | 3.0 | 13.0 | **SG5053227** | Price | **SG5052108** | Price |
| 5/16-18 | 1 | .187 | .135 | 3.0 | 15.0 | **SG5053223** | Price | **SG5052104** | Price |
| 3/8-16 | 1-1/8 | .187 | .186 | 5.5 | 14.5 | **SG5053224** | Price | **SG5052105** | Price |
| 1/2-13 | 1-1/4 | .250 | .248 | 6.6 | 17.4 | **SG5053225** | Price | **SG5052106** | Price |
| 5/8-11 | 1-1/2 | .312 | .310 | 10.6 | 25.5 | **SG5053226** | Price | **SG5052107** | Price |

## TE-CO Driver Studs - Inch

- Tensile 125,000 PSI
- Yield 100,000 PSI
- Black Oxide finish
- Medium carbon steel

MADE IN THE USA




| Thread (in.) | A (in.) | B (in.) | OAL C (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 1/4-20 | 1/2 | 1/2 | 1-1/2 | SG5040301† | Price |
| 1/4-20 | 3/4 | 3/4 | 2 | SG5040302† | Price |
| 1/4-20 | 1 | 3/8 | 2 | SG5040351 | Price |
| 1/4-20 | 1 | 1 | 2-1/2 | SG5040303† | Price |
| 1/4-20 | 1-1/2 | 3/8 | 3 | SG5040353 | Price |
| 1/4-20 | 1-3/4 | 3/8 | 4 | SG5040354 | Price |
| 1/4-20 | 1-3/4 | 3/8 | 5 | SG5040355 | Price |
| 1/4-20 | 2 | 3/8 | 6 | SG5040356 | Price |
| 1/4-20 | 2 | 3/8 | 7 | SG5040357 | Price |
| 1/4-20 | 2-1/2 | 1 | 8 | SG5040358 | Price |
| 5/16-18 | 1/2 | 1/2 | 1-1/2 | SG5040401† | Price |
| 5/16-18 | 3/4 | 3/4 | 2 | SG5040402† | Price |
| 5/16-18 | 1 | 1 | 2-1/2 | SG5040403† | Price |
| 5/16-18 | 1-1/8 | 1-1/8 | 3 | SG5040404† | Price |
| 5/16-18 | 1-1/8 | 1-1/8 | 3-1/2 | SG5040405† | Price |
| 5/16-18 | 1-1/2 | 1/2 | 4 | SG5040454 | Price |
| 5/16-18 | 2 | 1/2 | 6 | SG5040456 | Price |
| 5/16-18 | 2-1/2 | 1/2 | 8 | SG5040458 | Price |
| 3/8-16 | 1/2 | 1/2 | 1-1/2 | SG5040501† | Price |
| 3/8-16 | 3/4 | 3/4 | 2 | SG5040502† | Price |
| 3/8-16 | 1 | 5/8 | 2 | SG5040551 | Price |
| 3/8-16 | 1 | 1 | 2-1/2 | SG5040503† | Price |
| 3/8-16 | 1 | 1 | 3 | SG5040504 | Price |
| 3/8-16 | 1-1/2 | 5/8 | 3 | SG5040552 | Price |
| 3/8-16 | 1-1/4 | 1-1/4 | 3-1/2 | SG5040505 | Price |
| 3/8-16 | 1-1/4 | 1-1/4 | 4 | SG5040506 | Price |
| 3/8-16 | 1-1/2 | 5/8 | 4 | SG5040553 | Price |
| 3/8-16 | 1-1/4 | 1-1/4 | 4-1/2 | SG5040507 | Price |
| 3/8-16 | 1-1/4 | 1-1/4 | 5 | SG5040508 | Price |
| 3/8-16 | 1-3/4 | 5/8 | 5 | SG5040554 | Price |
| 3/8-16 | 1-1/4 | 1-1/4 | 6 | SG5040510 | Price |
| 3/8-16 | 2 | 5/8 | 6 | SG5040555 | Price |
| 3/8-16 | 1-1/4 | 1-1/4 | 7 | SG5040512 | Price |
| 3/8-16 | 1-1/4 | 1-1/4 | 8 | SG5040514 | Price |
| 3/8-16 | 2-1/2 | 5/8 | 8 | SG5040556 | Price |
| 1/2-13 | 1/2 | 1/2 | 1-1/2 | SG5040701† | Price |
| 1/2-13 | 3/4 | 3/4 | 2 | SG5040702† | Price |
| 1/2-13 | 1 | 5/8 | 2 | SG5040771 | Price |
| 1/2-13 | 1 | 1 | 2-1/2 | SG5040703† | Price |
| 1/2-13 | 1 | 1 | 3 | SG5040704 | Price |
| 1/2-13 | 1-1/2 | 3/4 | 3 | SG5040772 | Price |

| Thread (in.) | A (in.) | B (in.) | OAL C (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 1/2-13 | 1-1/4 | 1-1/4 | 3-1/2 | SG5040705 | Price |
| 1/2-13 | 1-1/2 | 3/4 | 4 | SG5040773 | Price |
| 1/2-13 | 1-1/2 | 1-1/2 | 4 | SG5040706 | Price |
| 1/2-13 | 1-1/2 | 1-1/2 | 4-1/2 | SG5040707 | Price |
| 1/2-13 | 1-1/2 | 1-1/2 | 5 | SG5040708 | Price |
| 1/2-13 | 1-3/4 | 3/4 | 5 | SG5040774 | Price |
| 1/2-13 | 1-1/2 | 1-1/2 | 5-1/2 | SG5040709 | Price |
| 1/2-13 | 1-1/2 | 1-1/2 | 6 | SG5040710 | Price |
| 1/2-13 | 2 | 3/4 | 6 | SG5040776 | Price |
| 1/2-13 | 1-1/2 | 1-1/2 | 6-1/2 | SG5040711 | Price |
| 1/2-13 | 1-1/2 | 1-1/2 | 7 | SG5040712 | Price |
| 1/2-13 | 2 | 3/4 | 7 | SG5040778 | Price |
| 1/2-13 | 1-1/2 | 1-1/2 | 7-1/2 | SG5040713 | Price |
| 1/2-13 | 1-1/2 | 1-1/2 | 8 | SG5040714 | Price |
| 1/2-13 | 2-1/2 | 3/4 | 8 | SG5040779 | Price |
| 1/2-13 | 1-1/2 | 1-1/2 | 9 | SG5040715 | Price |
| 1/2-13 | 2-1/2 | 3/4 | 9 | SG5040780 | Price |
| 1/2-13 | 1-1/2 | 1-1/2 | 10 | SG5040716 | Price |
| 1/2-13 | 3 | 3/4 | 10 | SG5040781 | Price |
| 1/2-13 | 1-1/2 | 1-1/2 | 12 | SG5040717 | Price |
| 1/2-13 | 3 | 3/4 | 12 | SG5040782 | Price |
| 1/2-13 | 1-1/2 | 1-1/2 | 14 | SG5040718 | Price |
| 1/2-13 | 1-1/2 | 1-1/2 | 16 | SG5040719 | Price |
| 5/8-11 | 1 | 5/8 | 2 | SG5040850 | Price |
| 5/8-11 | 1 | 1 | 3 | SG5040804 | Price |
| 5/8-11 | 1-1/2 | 7/8 | 3 | SG5040852 | Price |
| 5/8-11 | 1-1/4 | 1-1/4 | 3-1/2 | SG5040805 | Price |
| 5/8-11 | 1-5/8 | 1-5/8 | 4 | SG5040806 | Price |
| 5/8-11 | 1-3/4 | 7/8 | 4 | SG5040853 | Price |
| 5/8-11 | 1-3/4 | 1-3/4 | 4-1/2 | SG5040807 | Price |
| 5/8-11 | 1-3/4 | 7/8 | 5 | SG5040854 | Price |
| 5/8-11 | 1-3/4 | 1-3/4 | 5 | SG5040808 | Price |
| 5/8-11 | 1-3/4 | 1-3/4 | 5-1/2 | SG5040809 | Price |
| 5/8-11 | 1-3/4 | 1-3/4 | 6 | SG5040810 | Price |
| 5/8-11 | 2 | 7/8 | 6 | SG5040856 | Price |
| 5/8-11 | 1-3/4 | 1-3/4 | 6-1/2 | SG5040811 | Price |
| 5/8-11 | 1-3/4 | 1-3/4 | 7 | SG5040812 | Price |
| 5/8-11 | 2 | 7/8 | 7 | SG5040858 | Price |
| 5/8-11 | 1-3/4 | 1-3/4 | 7-1/2 | SG5040813 | Price |
| 5/8-11 | 1-3/4 | 1-3/4 | 8 | SG5040814 | Price |
| 5/8-11 | 2-1/2 | 7/8 | 8 | SG5040859 | Price |

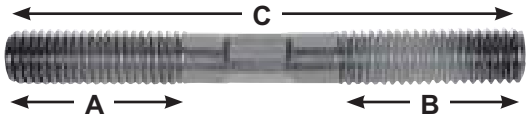
| Thread (in.) | A (in.) | B (in.) | OAL C (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 5/8-11 | 1-3/4 | 1-3/4 | 9 | SG5040815 | Price |
| 5/8-11 | 2-1/2 | 7/8 | 9 | SG5040860 | Price |
| 5/8-11 | 1-3/4 | 1-3/4 | 10 | SG5040816 | Price |
| 5/8-11 | 2-1/2 | 7/8 | 10 | SG5040861 | Price |
| 5/8-11 | 1-3/4 | 1-3/4 | 12 | SG5040817 | Price |
| 5/8-11 | 1-3/4 | 1-3/4 | 14 | SG5040818 | Price |
| 5/8-11 | 1-3/4 | 1-3/4 | 16 | SG5040819 | Price |
| 5/8-11 | 1-3/4 | 1-3/4 | 18 | SG5040820 | Price |
| 5/8-11 | 1-3/4 | 1-3/4 | 20 | SG5040821 | Price |
| 5/8-11 | 1-3/4 | 1-3/4 | 22 | SG5040822 | Price |
| 5/8-11 | 1-3/4 | 1-3/4 | 24 | SG5040823 | Price |
| 3/4-10 | 1-1/8 | 1-1/8 | 3 | SG5040901 | Price |
| 3/4-10 | 1-3/8 | 1-3/8 | 3-1/2 | SG5040902 | Price |
| 3/4-10 | 1-1/2 | 1-1/2 | 4 | SG5040903 | Price |
| 3/4-10 | 1-3/4 | 1-3/4 | 4-1/2 | SG5040904 | Price |
| 3/4-10 | 2 | 2 | 5 | SG5040905 | Price |
| 3/4-10 | 2 | 2 | 5-1/2 | SG5040906 | Price |
| 3/4-10 | 2 | 2 | 6 | SG5040907 | Price |
| 3/4-10 | 2 | 2 | 6-1/2 | SG5040908 | Price |
| 3/4-10 | 2 | 2 | 7 | SG5040909 | Price |
| 3/4-10 | 2 | 2 | 7-1/2 | SG5040910 | Price |
| 3/4-10 | 2 | 2 | 8 | SG5040911 | Price |
| 3/4-10 | 2 | 2 | 9 | SG5040912 | Price |
| 3/4-10 | 2 | 2 | 10 | SG5040913 | Price |
| 3/4-10 | 2 | 2 | 12 | SG5040914 | Price |
| 3/4-10 | 2 | 2 | 14 | SG5040915 | Price |
| 3/4-10 | 2 | 2 | 16 | SG5040916 | Price |
| 3/4-10 | 2 | 2 | 18 | SG5040917 | Price |
| 3/4-10 | 2 | 2 | 20 | SG5040918 | Price |
| 3/4-10 | 2 | 2 | 22 | SG5040919 | Price |
| 3/4-10 | 2 | 2 | 24 | SG5040920 | Price |
| 7/8-9 | 1 | 1 | 3 | SG5041001 | Price |
| 7/8-9 | 1-1/2 | 1-1/2 | 4 | SG5041003 | Price |
| 7/8-9 | 2 | 2 | 5 | SG5041005 | Price |
| 7/8-9 | 2-1/4 | 2-1/4 | 6 | SG5041007 | Price |
| 7/8-9 | 2-1/4 | 2-1/4 | 7 | SG5041009 | Price |
| 7/8-9 | 2-1/4 | 2-1/4 | 8 | SG5041011 | Price |
| 7/8-9 | 2-1/4 | 2-1/4 | 9 | SG5041012 | Price |
| 7/8-9 | 2-1/4 | 2-1/4 | 10 | SG5041013 | Price |
| 7/8-9 | 2-1/4 | 2-1/4 | 12 | SG5041014 | Price |

† Items Do Not Have Flats on Studs

## TE-CO Driver Studs - Metric

- Tensile 125,000 PSI
- Yield 100,000 PSI
- Black oxide finish
- Medium carbon steel

MADE IN THE USA



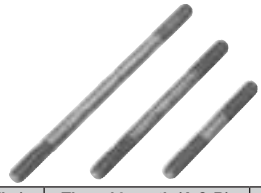

| Thread | Dimension A | Dimension B | OAL (C) | Order No. | Price |
|---|---|---|---|---|---|
| M6 x 1.0 | 20mm | 20mm | 50mm | SG5060201 | Price |
| M8 x 1.25 | 20mm | 20mm | 50mm | SG5060301 | Price |
| M8 x 1.25 | 20mm | 20mm | 65mm | SG5060302 | Price |
| M8 x 1.25 | 27mm | 27mm | 80mm | SG5060303 | Price |
| M8 x 1.25 | 31mm | 31mm | 110mm | SG5060306 | Price |
| M8 x 1.25 | 35mm | 35mm | 140mm | SG5060308 | Price |
| M8 x 1.25 | 35mm | 35mm | 150mm | SG5060310 | Price |
| M8 x 1.25 | 35mm | 35mm | 175mm | SG5060311 | Price |
| M8 x 1.25 | 35mm | 35mm | 200mm | SG5060313 | Price |
| M10 x 1.50 | 20mm | 20mm | 50mm | SG5060401 | Price |
| M10 x 1.50 | 20mm | 20mm | 65mm | SG5060402 | Price |
| M10 x 1.50 | 27mm | 27mm | 80mm | SG5060403 | Price |
| M10 x 1.50 | 35mm | 35mm | 110mm | SG5060406 | Price |
| M10 x 1.50 | 35mm | 35mm | 125mm | SG5060407 | Price |
| M10 x 1.50 | 35mm | 35mm | 150mm | SG5060410 | Price |
| M10 x 1.50 | 35mm | 35mm | 175mm | SG5060411 | Price |
| M10 x 1.50 | 35mm | 35mm | 200mm | SG5060413 | Price |
| M12 x 1.75 | 20mm | 20mm | 50mm | SG5060501 | Price |
| M12 x 1.75 | 20mm | 20mm | 65mm | SG5060502 | Price |
| M12 x 1.75 | 27mm | 27mm | 80mm | SG5060503 | Price |

| Thread | Dimension A | Dimension B | OAL (C) | Order No. | Price |
|---|---|---|---|---|---|
| M12 x 1.75 | 31mm | 31mm | 95mm | SG5060504 | Price |
| M12 x 1.75 | 39mm | 39mm | 110mm | SG5060506 | Price |
| M12 x 1.75 | 39mm | 39mm | 125mm | SG5060507 | Price |
| M12 x 1.75 | 39mm | 39mm | 140mm | SG5060508 | Price |
| M12 x 1.75 | 39mm | 39mm | 150mm | SG5060510 | Price |
| M12 x 1.75 | 39mm | 39mm | 175mm | SG5060511 | Price |
| M12 x 1.75 | 39mm | 39mm | 200mm | SG5060513 | Price |
| M16 x 2.0 | 21mm | 21mm | 80mm | SG5060603 | Price |
| M16 x 2.0 | 31mm | 31mm | 95mm | SG5060604 | Price |
| M16 x 2.0 | 47mm | 47mm | 110mm | SG5060606 | Price |
| M16 x 2.0 | 47mm | 47mm | 125mm | SG5060607 | Price |
| M16 x 2.0 | 47mm | 47mm | 150mm | SG5060609 | Price |
| M16 x 2.0 | 47mm | 47mm | 175mm | SG5060611 | Price |
| M16 x 2.0 | 47mm | 47mm | 200mm | SG5060613 | Price |
| M16 x 2.0 | 47mm | 47mm | 250mm | SG5060615 | Price |
| M16 x 2.0 | 47mm | 47mm | 300mm | SG5060616 | Price |
| M20 x 2.5 | 55mm | 55mm | 125mm | SG5060707 | Price |
| M20 x 2.5 | 55mm | 55mm | 150mm | SG5060709 | Price |
| M20 x 2.5 | 55mm | 55mm | 200mm | SG5060713 | Price |
| M20 x 2.5 | 55mm | 55mm | 300mm | SG5060716 | Price |

## Jergens Alloy Steel Studs

- Material: Stressproof (125,000 PSI Min.) Tensile; (100,000 PSI Min.) Yield
- Finish: Black Oxide
- Available in Fixture Pro TM Design Software

| Thread Size (in.) | OAL (in.) | Thread Length (A & B) | Order No. | Price |
|---|---|---|---|---|
| 1/4-20 | 1-1/2 | 9/32 | **SG6637720** | Price |
| 1/4-20 | 2 | 9/32 | **SG6637721** | Price |
| 1/4-20 | 2-1/2 | 9/32 | **SG6637722** | Price |
| 1/4-20 | 3 | 9/32 | **SG6637723** | Price |
| 1/4-20 | 3-1/2 | 1 | **SG6637724** | Price |
| 1/4-20 | 4 | 1 | **SG6637725** | Price |
| 5/16-18 | 1-1/2 | 7/16 | **SG6637920** | Price |
| 5/16-18 | 2 | 11/16 | **SG6637921** | Price |
| 5/16-18 | 2-1/2 | 15/16 | **SG6637922** | Price |
| 5/16-18 | 3 | 1-1/8 | **SG6637923** | Price |
| 5/16-18 | 3-1/2 | 1-1/8 | **SG6637924** | Price |
| 5/16-18 | 4 | 1-1/8 | **SG6637925** | Price |
| 3/8-16 | 1-5/8 | 11/32 | **SG6638120** | Price |
| 3/8-16 | 2 | 11/32 | **SG6638121** | Price |
| 3/8-16 | 2-1/2 | 11/32 | **SG6638122** | Price |
| 3/8-16 | 3 | 11/32 | **SG6638123** | Price |
| 3/8-16 | 3-1/2 | 11/32 | **SG6638124** | Price |
| 3/8-16 | 4 | 11/32 | **SG6638125** | Price |
| 3/8-16 | 4-1/2 | 1-1/4 | **SG6638126** | Price |
| 3/8-16 | 5 | 1-1/4 | **SG6638127** | Price |
| 3/8-16 | 5-1/2 | 1-1/4 | **SG6638128** | Price |
| 3/8-16 | 6 | 1-1/4 | **SG6638129** | Price |
| 3/8-16 | 7 | 1-1/4 | **SG6638131** | Price |
| 3/8-16 | 8 | 1-1/4 | **SG6638133** | Price |
| 1/2-13 | 2 | 5/8 | **SG6638321** | Price |
| 1/2-13 | 2-1/2 | 7/8 | **SG6638322** | Price |
| 1/2-13 | 3 | 1-1/8 | **SG6638323** | Price |
| 1/2-13 | 3-1/2 | 1-3/8 | **SG6638324** | Price |
| 1/2-13 | 4 | 1-1/2 | **SG6638325** | Price |
| 1/2-13 | 4-1/2 | 1-1/2 | **SG6638326** | Price |
| 1/2-13 | 5 | 1-1/2 | **SG6638327** | Price |
| 1/2-13 | 5-1/2 | 1-1/2 | **SG6638328** | Price |
| 1/2-13 | 6 | 1-1/2 | **SG6638329** | Price |
| 1/2-13 | 7 | 1-1/2 | **SG6638331** | Price |
| 1/2-13 | 8 | 1-1/2 | **SG6638333** | Price |
| 1/2-13 | 9 | 1-1/2 | **SG6638334** | Price |
| 1/2-13 | 10 | 1-1/2 | **SG6638335** | Price |
| 1/2-13 | 12 | 1-1/2 | **SG6638336** | Price |



| Thread Size (in.) | OAL (in.) | Thread Length (A & B) | Order No. | Price |
|---|---|---|---|---|
| 5/8-11 | 2-1/2 | 13/16 | **SG6638520** | Price |
| 5/8-11 | 3 | 1-1/16 | **SG6638521** | Price |
| 5/8-11 | 3-1/2 | 1-5/16 | **SG6638522** | Price |
| 5/8-11 | 4 | 1-9/16 | **SG6638523** | Price |
| 5/8-11 | 4-1/2 | 1-3/4 | **SG6638524** | Price |
| 5/8-11 | 5 | 1-3/4 | **SG6638525** | Price |
| 5/8-11 | 5-1/2 | 1-3/4 | **SG6638526** | Price |
| 5/8-11 | 6 | 1-3/4 | **SG6638527** | Price |
| 5/8-11 | 7 | 1-3/4 | **SG6638529** | Price |
| 5/8-11 | 8 | 1-3/4 | **SG6638531** | Price |
| 5/8-11 | 9 | 1-3/4 | **SG6638532** | Price |
| 5/8-11 | 10 | 1-3/4 | **SG6638533** | Price |
| 5/8-11 | 12 | 1-3/4 | **SG6638534** | Price |
| 3/4-10 | 3 | 15/16 | **SG6638721** | Price |
| 3/4-10 | 3-1/2 | 1-3/16 | **SG6638722** | Price |
| 3/4-10 | 4 | 1-7/16 | **SG6638723** | Price |
| 3/4-10 | 4-1/2 | 1-11/16 | **SG6638724** | Price |
| 3/4-10 | 5 | 1-15/16 | **SG6638725** | Price |
| 3/4-10 | 5-1/2 | 2 | **SG6638726** | Price |
| 3/4-10 | 6 | 2 | **SG6638727** | Price |
| 3/4-10 | 7 | 2 | **SG6638729** | Price |
| 3/4-10 | 8 | 2 | **SG6638731** | Price |
| 3/4-10 | 10 | 2 | **SG6638733** | Price |
| 3/4-10 | 12 | 2 | **SG6638734** | Price |
| 7/8-9 | 4 | 1-13/32 | **SG6638922** | Price |
| 7/8-9 | 5 | 1-29/32 | **SG6638923** | Price |
| 7/8-9 | 6 | 2-1/4 | **SG6638924** | Price |
| 7/8-9 | 8 | 2-1/4 | **SG6638925** | Price |
| 7/8-9 | 10 | 2-1/4 | **SG6638926** | Price |
| 7/8-9 | 12 | 2-1/4 | **SG6638927** | Price |
| 1-8 | 4 | 1-3/8 | **SG6639122** | Price |
| 1-8 | 5 | 1-7/8 | **SG6639123** | Price |
| 1-8 | 6 | 2-3/8 | **SG6639124** | Price |
| 1-8 | 8 | 2-1/2 | **SG6639125** | Price |
| 1-8 | 10 | 2-1/2 | **SG6639126** | Price |
| 1-8 | 12 | 2-1/2 | **SG6639127** | Price |

## Jergens Alloy Steel Studs - Metric

- Material: Stressproof (125,000 PSI Min.) Tensile; (100,000 PSI Min.) Yield
- Finish: Black Oxide
- Available in Fixture Pro TM Design Software

| Thread Size (in.) | OAL (in.) | Thread Length (A & B) | Order No. | Price |
|---|---|---|---|---|
| M6 x 1.0 | 50mm | 18mm | **SG6637771** | Price |
| M6 x 1.0 | 66mm | 25mm | **SG6637772** | Price |
| M6 x 1.0 | 81mm | 28mm | **SG6637773** | Price |
| M6 x 1.0 | 96mm | 28mm | **SG6637774** | Price |
| M8 x 1.25 | 50mm | 18mm | **SG6637971** | Price |
| M8 x 1.25 | 66mm | 25mm | **SG6637972** | Price |
| M8 x 1.25 | 81mm | 32mm | **SG6637973** | Price |
| M8 x 1.25 | 96mm | 32mm | **SG6637974** | Price |
| M8 x 1.25 | 111mm | 32mm | **SG6637975** | Price |
| M10 x 1.5 | 50mm | 16mm | **SG6638171** | Price |
| M10 x 1.5 | 66mm | 23mm | **SG6638172** | Price |
| M10 x 1.5 | 81mm | 30mm | **SG6638173** | Price |
| M10 x 1.5 | 95mm | 35mm | **SG6638174** | Price |
| M10 x 1.5 | 110mm | 35mm | **SG6638175** | Price |
| M10 x 1.5 | 125mm | 39mm | **SG6638176** | Price |
| M10 x 1.5 | 140mm | 39mm | **SG6638177** | Price |
| M10 x 1.5 | 155mm | 39mm | **SG6638178** | Price |
| M12 x 1.75 | 50mm | 16mm | **SG6638371** | Price |
| M12 x 1.75 | 66mm | 23mm | **SG6638372** | Price |
| M12 x 1.75 | 81mm | 31mm | **SG6638373** | Price |



| Thread Size (in.) | OAL (in.) | Thread Length (A & B) | Order No. | Price |
|---|---|---|---|---|
| M12 x 1.75 | 95mm | 40mm | **SG6638374** | Price |
| M12 x 1.75 | 111mm | 40mm | **SG6638375** | Price |
| M12 x 1.75 | 125mm | 40mm | **SG6638376** | Price |
| M12 x 1.75 | 141mm | 40mm | **SG6638377** | Price |
| M12 x 1.75 | 156mm | 40mm | **SG6638378** | Price |
| M16 x 2.0 | 80mm | 29mm | **SG6638571** | Price |
| M16 x 2.0 | 95mm | 36mm | **SG6638572** | Price |
| M16 x 2.0 | 110mm | 44mm | **SG6638573** | Price |
| M16 x 2.0 | 125mm | 47mm | **SG6638574** | Price |
| M16 x 2.0 | 150mm | 47mm | **SG6638575** | Price |
| M16 x 2.0 | 175mm | 47mm | **SG6638576** | Price |
| M16 x 2.0 | 200mm | 47mm | **SG6638577** | Price |
| M20 x 2.5 | 81mm | 30mm | **SG6638771** | Price |
| M20 x 2.5 | 96mm | 37mm | **SG6638772** | Price |
| M20 x 2.5 | 111mm | 45mm | **SG6638773** | Price |
| M20 x 2.5 | 126mm | 52mm | **SG6638774** | Price |
| M20 x 2.5 | 151mm | 48mm | **SG6638775** | Price |
| M20 x 2.5 | 176mm | 56mm | **SG6638776** | Price |
| M20 x 2.5 | 201mm | 56mm | **SG6638777** | Price |

## Jergens Set-Up Studs



- Material: 303 Stainless

| Thread Size (in.) | OAL (in.) | Thread Length A & B (in.) | Order No. | Price |
|---|---|---|---|---|
| 1/2-13 | 2 | 3/4 | **SG6638421** | Price |
| 1/2-13 | 2-1/2 | 1-1/8 | **SG6638422** | Price |
| 1/2-13 | 3 | 1-3/8 | **SG6638423** | Price |
| 1/2-13 | 3-1/2 | 1-1/2 | **SG6638424** | Price |
| 1/2-13 | 4 | 1-1/2 | **SG6638425** | Price |
| 1/2-13 | 4-1/2 | 1-1/2 | **SG6638426** | Price |
| 1/2-13 | 5 | 1-1/2 | **SG6638427** | Price |
| 1/2-13 | 5-1/2 | 1-1/2 | **SG6638428** | Price |
| 1/2-13 | 6 | 1-1/2 | **SG6638429** | Price |
| 1/2-13 | 7 | 1-1/2 | **SG6638431** | Price |
| 1/2-13 | 8 | 1-1/2 | **SG6638433** | Price |
| 1/2-13 | 9 | 1-1/2 | **SG6638434** | Price |
| 1/2-13 | 10 | 1-1/2 | **SG6638435** | Price |
| 1/2-13 | 12 | 1-1/2 | **SG6638436** | Price |
| 5/8-11 | 2-1/2 | 1-1/8 | **SG6638620** | Price |
| 5/8-11 | 3 | 1-3/8 | **SG6638621** | Price |
| 5/8-11 | 3-1/2 | 1-3/4 | **SG6638622** | Price |
| 5/8-11 | 4 | 1-3/4 | **SG6638623** | Price |
| 5/8-11 | 4-1/2 | 1-3/4 | **SG6638624** | Price |
| 5/8-11 | 5 | 1-3/4 | **SG6638625** | Price |
| 5/8-11 | 5-1/2 | 1-3/4 | **SG6638626** | Price |
| 5/8-11 | 6 | 1-3/4 | **SG6638627** | Price |
| 5/8-11 | 7 | 1-3/4 | **SG6638629** | Price |
| 5/8-11 | 8 | 1-3/4 | **SG6638631** | Price |
| 5/8-11 | 9 | 1-3/4 | **SG6638632** | Price |
| 5/8-11 | 10 | 1-3/4 | **SG6638633** | Price |
| 5/8-11 | 12 | 1-3/4 | **SG6638634** | Price |
| 3/4-10 | 3 | 1-3/8 | **SG6638821** | Price |
| 3/4-10 | 3-1/2 | 1-1/2 | **SG6638822** | Price |
| 3/4-10 | 4 | 1-3/4 | **SG6638823** | Price |
| 3/4-10 | 4-1/2 | 2 | **SG6638824** | Price |
| 3/4-10 | 5 | 2 | **SG6638825** | Price |
| 3/4-10 | 5-1/2 | 2 | **SG6638826** | Price |
| 3/4-10 | 6 | 2 | **SG6638827** | Price |
| 3/4-10 | 7 | 2 | **SG6638829** | Price |
| 3/4-10 | 8 | 2 | **SG6638831** | Price |
| 3/4-10 | 10 | 2 | **SG6638833** | Price |
| 3/4-10 | 12 | 2 | **SG6638834** | Price |

## Jergens Fixture Studs



- Material: 303 Stainless

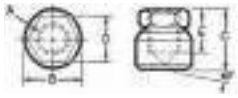
| Thread Size (in.) | OAL (in.) | Stud Fit | Nut Fit | Order No. | Price |
|---|---|---|---|---|---|
| 10-32 | 1 | 7/32 | 1/2 | **SG6637601** | Price |
| 10-32 | 1-1/2 | 7/32 | 3/4 | **SG6637602** | Price |
| 10-32 | 2 | 7/32 | 3/4 | **SG6637603** | Price |
| 1/4-20 | 1-1/2 | 9/32 | 5/8 | **SG6637802** | Price |
| 1/4-20 | 2 | 9/32 | 3/4 | **SG6637804** | Price |
| 1/4-20 | 2-1/2 | 9/32 | 3/4 | **SG6637806** | Price |
| 1/4-20 | 3 | 9/32 | 1 | **SG6637808** | Price |
| 5/16-18 | 1-1/2 | 11/32 | 5/8 | **SG6638002** | Price |
| 5/16-18 | 2 | 11/32 | 1 | **SG6638004** | Price |
| 5/16-18 | 2-1/2 | 11/32 | 1-1/4 | **SG6638006** | Price |
| 5/16-18 | 3 | 11/32 | 1-3/8 | **SG6638008** | Price |
| 5/16-18 | 3-1/2 | 11/32 | 1-1/2 | **SG6638009** | Price |
| 5/16-18 | 4 | 11/32 | 1-1/2 | **SG6638010** | Price |
| 3/8-16 | 1-5/8 | 11/32 | 3/4 | **SG6638201** | Price |
| 3/8-16 | 2 | 11/32 | 1 | **SG6638202** | Price |
| 3/8-16 | 2-1/2 | 11/32 | 1-1/4 | **SG6638204** | Price |
| 3/8-16 | 3 | 11/32 | 1-3/8 | **SG6638206** | Price |
| 3/8-16 | 3-1/2 | 11/32 | 1-1/2 | **SG6638207** | Price |
| 3/8-16 | 4 | 11/32 | 1-1/2 | **SG6638208** | Price |

## TE-CO Toggle Pads 10°

MADE IN THE USA



- Case hardened 12L14 steel
- Use when high clamping pressures are required
- Pads swivel 10° from vertical in any direction



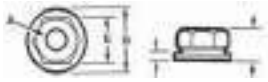
| Thread Size | B (in.) | C (in.) | D (in.) | E (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 1/4-20 | 5/8 | 5/8 | 1/2 | 13/32 | **SG5044302** | Price |
| 5/16-18 | 11/16 | 11/16 | 9/16 | 7/16 | **SG5044303** | Price |
| 3/8-16 | 3/4 | 3/4 | 5/8 | 1/2 | **SG5044304** | Price |
| 1/2-13 | 7/8 | 1 | 3/4 | 17/32 | **SG5044305** | Price |
| 5/8-11 | 1 | 1-1/16 | 7/8 | 9/16 | **SG5044306** | Price |
| 3/4-10 | 1-1/4 | 1-5/16 | 1-1/16 | 3/4 | **SG5044307** | Price |
| 1-8 | 1-5/8 | 1-11/16 | 1-3/8 | 1 | **SG5044308** | Price |

## TE-CO Flange Nuts

MADE IN THE USA



- Black oxide finish
- Case hardened
- 12L14 material



| Thread Size | B (in.) | C (in.) | D (in.) | E (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 1/4-20 | 5/8 | 5/16 | 3/32 | 1/2 | **SG5041601** | Price |
| 5/16-18 | 3/4 | 3/8 | 1/8 | 9/16 | **SG5041602** | Price |
| 3/8-16 | 7/8 | 1/2 | 1/8 | 11/16 | **SG5041603** | Price |
| 7/16-14 | 1 | 9/16 | 5/32 | 3/4 | **SG5041604** | Price |
| 1/2-13 | 1-1/8 | 11/16 | 3/16 | 7/8 | **SG5041605** | Price |
| 5/8-11 | 1-3/8 | 13/16 | 3/16 | 1-1/16 | **SG5041606** | Price |
| 3/4-10 | 1-5/8 | 1 | 1/4 | 1-1/4 | **SG5041607** | Price |
| 7/8-9 | 1-3/4 | 1-1/8 | 1/4 | 1-7/16 | **SG5041608** | Price |
| 1-8 | 2 | 1-1/4 | 1/4 | 1-5/8 | **SG5041609** | Price |
| 1-1/4-7 | 2-1/2 | 1-1/4 | 1/4 | 1-13/16 | **SG5041611** | Price |

## TE-CO Flange Nuts — Metric



- Black oxide finish
- Case hardened
- 12L14 material

MADE IN THE USA

| Thread Size | B | C | D | E | Order No. | Price |
|---|---|---|---|---|---|---|
| M6 x 1.0 | 16mm | 8mm | 2mm | 10mm | **SG5061601** | Price |
| M8 x 1.25 | 19mm | 10mm | 2.5mm | 13mm | **SG5061602** | Price |
| M10 x 1.5 | 22mm | 13mm | 3mm | 17mm | **SG5061603** | Price |
| M12 x 1.75 | 27mm | 17mm | 4mm | 19mm | **SG5061604** | Price |
| M16 x 2.0 | 33mm | 21mm | 5mm | 24mm | **SG5061605** | Price |
| M20 x 2.5 | 40mm | 25mm | 6mm | 30mm | **SG5061606** | Price |
| M24 x 3.0 | 49mm | 32mm | 7mm | 36mm | **SG5061607** | Price |

## TE-CO Swivel Flange Nuts



- Material: 12L14 steel
- Black oxide finish, case hardened
- Head rotates but washer remains stationary upon contact to prevent marring of workpiece

MADE IN THE USA



| Thread Size | B (in.) | C (in.) | D (in.) | E (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 1/4-20 | 5/8 | 3/8 | 1/8 | 1/2 | **SG5042001** | Price |
| 5/16-18 | 3/4 | 7/16 | 9/64 | 9/16 | **SG5042002** | Price |
| 3/8-16 | 7/8 | 17/32 | 5/32 | 11/16 | **SG5042003** | Price |
| 1/2-13 | 1-1/8 | 23/32 | 7/32 | 7/8 | **SG5042004** | Price |
| 5/8-11 | 1-3/8 | 29/32 | 1/4 | 1-1/16 | **SG5042005** | Price |
| 3/4-10 | 1-5/8 | 1-1/64 | 9/32 | 1-1/4 | **SG5042006** | Price |
| 7/8-9 | 1-3/4 | 1-1/8 | 7/16 | 1-7/16 | **SG5042007** | Price |
| 1-8 | 2 | 1-15/64 | 15/32 | 1-5/8 | **SG5042008** | Price |

## Heavy Duty Hardened Hex Nuts

- Black oxide finish
- High grade alloy steel
- Will outlast ordinary Hex Nuts when used in repetitive operations

MADE IN THE USA





Jergens

| Brand Name - Jergens | | | | |
|---|---|---|---|---|
| Thread Size | B (in.) | C (in.) | Order No. | Price |
| 1/4-20 | 7/16 | 7/32 | **SG6620711** | Price |
| 5/16-18 | 1/2 | 17/64 | **SG6620712** | Price |
| 3/8-16 | 9/16 | 21/64 | **SG6620713** | Price |
| 1/2-13 | 3/4 | 7/16 | **SG6620714** | Price |
| 5/8-11 | 15/16 | 35/64 | **SG6620716** | Price |
| 3/4-10 | 1-1/8 | 41/64 | **SG6620717** | Price |
| 7/8-9 | 1-5/16 | 3/4 | **SG6620718** | Price |
| 1-8 | 1-1/2 | 55/64 | **SG6620719** | Price |

TE-CO

| Brand Name - Te-Co | | | | |
|---|---|---|---|---|
| Thread Size | B (in.) | C (in.) | Order No. | Price |
| 1/4-20 | 1/2 | 15/64 | **SG5042101** | Price |
| 5/16-18 | 9/16 | 19/64 | **SG5042102** | Price |
| 7/16-14 | 3/4 | 27/64 | **SG5042104** | Price |
| 1/2-13 | 7/8 | 31/64 | **SG5042105** | Price |
| 3/8-16 | 11/16 | 23/64 | **SG5042103** | Price |
| 5/8-11 | 1-1/16 | 39/64 | **SG5042106** | Price |
| 3/4-10 | 1-1/4 | 47/64 | **SG5042107** | Price |
| 7/8-9 | 1-7/16 | 55/64 | **SG5042108** | Price |
| 1-8 | 1-5/8 | 63/64 | **SG5042109** | Price |

## Spherical Flange Nut Washer Assemblies

- Assemblies consist of Flange Nuts (Part No's 41801 & 41811) and Spherical Washers (Part No's 42741 & 42750)

MADE IN THE USA



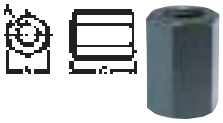
Jergens

TE-CO

| | Jergens | | Te-Co | |
|---|---|---|---|---|
| Thread Size | Order No. | Price | Order No. | Price |
| 10-24 | **SG6639301** | Price | - | - |
| 1/4-20 | **SG6639302** | Price | **SG5041901** | Price |
| 5/16-18 | **SG6639303** | Price | **SG5041902** | Price |
| 3/8-16 | **SG6639304** | Price | **SG5041903** | Price |
| 7/16-14 | - | - | **SG5041904** | Price |
| 1/2-13 | **SG6639305** | Price | **SG5041905** | Price |
| 5/8-11 | **SG6639306** | Price | **SG5041906** | Price |
| 3/4-10 | **SG6639307** | Price | **SG5041907** | Price |
| 7/8-9 | **SG6639308** | Price | - | - |
| 1-8 | **SG6639309** | Price | **SG5041909** | Price |
| 1-1/4-7 | **SG6639311** | Price | **SG5041911** | Price |
| 1-1/2-6 | **SG6639312** | Price | - | - |
| M6 | **SG6639352** | Price | - | - |
| M8 | **SG6639353** | Price | - | - |
| M10 | **SG6639354** | Price | - | - |
| M12 | **SG6639355** | Price | - | - |
| M16 | **SG6639356** | Price | - | - |
| M20 | **SG6639357** | Price | - | - |

## Coupling Nuts

- Used to join 2 or more studs for desired length
- Black oxide finish
- Case hardened



MADE IN THE USA

Jergens

TE-CO

| | | | Jergens | | Te-Co | |
|---|---|---|---|---|---|---|
| Thread Size | Across Flats (in.) | Length (in.) | Order No. | Price | Order No. | Price |
| 1/4-20 | 1/2 | 5/8 | - | - | **SG5041501** | Price |
| 5/16-18 | 9/16 | 7/8 | - | - | **SG5041502** | Price |
| 3/8-16 | 11/16 | 1 | **SG6618711** | Price | **SG5041503** | Price |
| 7/16-14 | 3/4 | 1-1/4 | - | - | **SG5041504** | Price |
| 1/2-13 | 7/8 | 1-1/4 | **SG6618712** | Price | **SG5041505** | Price |
| 5/8-11 | 1-1/16 | 1-5/8 | **SG6618713** | Price | **SG5041506** | Price |
| 3/4-10 | 1-1/4 | 1-7/8 | **SG6618714** | Price | **SG5041507** | Price |
| 7/8-9 | 1-7/16 | 2-1/4 | **SG6618715** | Price | **SG5041508** | Price |
| 1-8 | 1-5/8 | 2-1/2 | **SG6618716** | Price | **SG5041509** | Price |
| M10 | 16mm | 25mm | **SG6618761** | Price | - | - |
| M12 | 19mm | 32mm | **SG6618762** | Price | - | - |
| M16 | 24mm | 41mm | **SG6618763** | Price | - | - |
| M20 | 27mm | 51mm | **SG6618764** | Price | - | - |

Jergens

## English T-Slot Nuts



- Material: C-1018, 303 Stainless
- Finish: Black Oxide
- Heat Treat: Case Hardened
- Thread: 2B-UNC
- Available in Fixture Pro TM Design Software

| Thread (in.) | T-Slot Width | Width (in.) | Flange Ht. (in.) | Overall Ht. (in.) | Length | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 3/8-16 | 7/16 | 7/8 | 7/32 | 1/2 | 11/16 | **SG6643302** | Price |
| 3/8-16 | 1/2 | 7/8 | 9/32 | 1/2 | 7/8 | **SG6643303** | Price |
| 3/8-16 | 9/16 | 7/8 | 1/4 | 1/2 | 7/8 | **SG6643301** | Price |
| 1/2-13 | 9/16 | 1-1/8 | 11/32 | 5/8 | 7/8 | **SG6643305** | Price |
| 1/2-13 | 5/8 | 1-1/8 | 11/32 | 5/8 | 1 | **SG6643306** | Price |
| 1/2-13 | 11/16 | 1-1/4 | 7/16 | 3/4 | 1-1/8 | **SG6643304** | Price |
| 5/8-11 | 11/16 | 1-1/4 | 7/16 | 3/4 | 1-1/8 | **SG6643308** | Price |
| 5/8-11 | 3/4 | 1-1/4 | 15/32 | 3/4 | 1-1/4 | **SG6643309** | Price |
| 3/4-10 | 13/16 | 1-1/2 | 9/16 | 1 | 1-1/4 | **SG6643311** | Price |
| 5/8-11 | 13/16 | 1-1/2 | 9/16 | 1 | 1-1/4 | **SG6643307** | Price |
| 3/4-10 | 7/8 | 1-1/2 | 9/16 | 1 | 1-1/2 | **SG6643312** | Price |
| 3/4-10 | 1-1/16 | 2 | 11/16 | 1-1/4 | 1-5/8 | **SG6643310** | Price |
| 7/8-9 | 1 | 2 | 5/8 | 1-1/4 | 1-5/8 | **SG6643313** | Price |
| 7/8-9 | 1-1/16 | 2 | 5/8 | 1-1/4 | 1-3/4 | **SG6643314** | Price |

Jergens

## Metric T-Slot Nuts



- Material: C-1018, 303 Stainless
- Finish: Black Oxide
- Heat Treat: Case Hardened
- Thread: 2B-UNC
- Available in Fixture Pro TM Design Software

| Thread | Table Slot Width | Width | Flange Ht. | Overall Ht. | Length | Order No. | Price |
|---|---|---|---|---|---|---|---|
| M10 x 1.5 | 12mm | 25mm | 7mm | 13mm | 19mm | **SG6643372** | Price |
| M10 x 1.5 | 14mm | 29mm | 9mm | 16mm | 22mm | **SG6643373** | Price |
| M10 x 1.5 | 16mm | 29mm | 9mm | 16mm | 25mm | **SG6643374** | Price |
| M12 x 1.75 | 14mm | 29mm | 9mm | 16mm | 22mm | **SG6643375** | Price |
| M12 x 1.75 | 16mm | 29mm | 9mm | 16mm | 25mm | **SG6643376** | Price |
| M12 x 1.75 | 18mm | 32mm | 11mm | 19mm | 29mm | **SG6643377** | Price |
| M16 x 2.0 | 18mm | 32mm | 11mm | 19mm | 29mm | **SG6643378** | Price |
| M16 x 2.0 | 20mm | 38mm | 14mm | 25mm | 32mm | **SG6643379** | Price |
| M16 x 2.0 | 22mm | 38mm | 14mm | 25mm | 35mm | **SG6643380** | Price |
| M20 x 2.5 | 22mm | 38mm | 14mm | 25mm | 35mm | **SG6643381** | Price |
| M20 x 2.5 | 24mm | 44mm | 16mm | 25mm | 38mm | **SG6643382** | Price |
| M20 x 2.5 | 28mm | 51mm | 18mm | 29mm | 41mm | **SG6643383** | Price |

Jergens

## Stainless Steel T-Slot Nuts

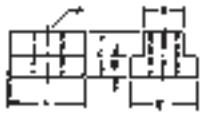


- Finish: Black Oxide
- Heat Treat: Case Hardened
- Thread: 2B-UNC
- Available in Fixture Pro TM Design Software

| Thread (in.) | T-Slot Width (in.) | Width (in.) | Flange Ht. (in.) | Oveall Ht. (in.) | Length (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 3/8-16 | 7/16 | 1 | 7/32 | 1/2 | 3/4 | **SG6643402** | Price |
| 3/8-16 | 1/2 | 7/8 | 1/4 | 5/8 | 7/8 | **SG6643403** | Price |
| 1/2-13 | 9/16 | 1-1/4 | 5/16 | 3/4 | 7/8 | **SG6643405** | Price |
| 1/2-13 | 5/8 | 1-1/4 | 3/8 | 3/4 | 1 | **SG6643406** | Price |
| 5/8-11 | 11/16 | 1-1/2 | 15/32 | 1 | 1-1/4 | **SG6643408** | Price |
| 5/8-11 | 3/4 | 1-1/2 | 17/32 | 1-1/4 | 1-1/4 | **SG6643409** | Price |
| 3/4-10 | 13/16 | 1-3/4 | 9/16 | 1 | 1-1/2 | **SG6643411** | Price |
| 3/4-10 | 1-1/16 | 1-3/4 | 9/16 | 1 | 1-5/8 | **SG6643410** | Price |

## English T-Slot Nuts

MADE IN THE USA





- Case hardened
- Black oxide finish
- Last thread incomplete to prevent stud from turning through bottom of nut into machine table
- T-Slot Nuts are undersized to fit machine table slot
- Tapped thru T-Slot nuts are also available. Add “T” to the end of the part number for Tapped Thru style.

| Thread A (in.) | English Table Slot B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 1/4-20 | 5/16 | 1/4 | 3/16 | 9/16 | 9/16 | **SG5041401** | Price |
| 1/4-20 | 3/8 | 3/8 | 1/4 | 5/8 | 7/8 | **SG5041470** | Price |
| 1/4-20 | 3/8 | 3/8 | 15/64 | 9/16 | 9/16 | **SG5041402** | Price |
| 5/16-18 | 7/16 | 1/2 | 7/32 | 3/4 | 1 | **SG5041471** | Price |
| 5/16-18 | 3/8 | 3/8 | 1/4 | 5/8 | 7/8 | **SG5041403** | Price |
| 3/8-16 | 7/16 | 1/2 | 7/32 | 11/16 | 7/8 | **SG5041404** | Price |
| 3/8-16 | 7/16 | 1/2 | 7/32 | 3/4 | 1 | **SG5041472** | Price |
| 3/8-16 | 1/2 | 1/2 | 9/32 | 7/8 | 7/8 | **SG5041405** | Price |
| 3/8-16 | 1/2 | 1/2 | 9/32 | 7/8 | 1 | **SG5041473** | Price |
| 3/8-16 | 9/16 | 5/8 | 11/32 | 7/8 | 1 | **SG5041474** | Price |
| 3/8-16 | 9/16 | 5/8 | 11/32 | 7/8 | 1-1/8 | **SG5041406** | Price |
| 3/8-16 | 5/8 | 5/8 | 3/8 | 1 | 1 | **SG5041476** | Price |
| 3/8-16 | 5/8 | 7/8 | 7/16 | 1-3/16 | 1-3/16 | **SG5041478** | Price |
| 7/16-14 | 1/2 | 3/8 | 7/32 | 3/4 | 7/8 | **SG5041408** | Price |
| 7/16-14 | 1/2 | 1/2 | 9/32 | 7/8 | 7/8 | **SG5041407** | Price |
| 1/2-13 | 9/16 | 5/8 | 11/32 | 7/8 | 1 | **SG5041475** | Price |
| 1/2-13 | 9/16 | 5/8 | 11/32 | 7/8 | 1-1/8 | **SG5041409** | Price |
| 1/2-13 | 5/8 | 5/8 | 11/32 | 1 | 1-1/8 | **SG5041410** | Price |
| 1/2-13 | 5/8 | 5/8 | 3/8 | 1 | 1 | **SG5041477** | Price |
| 1/2-13 | 5/8 | 3/4 | 3/8 | 1-1/8 | 1-1/8 | **SG5041411** | Price |
| 1/2-13 | 11/16 | 3/4 | 13/32 | 1-1/8 | 1-1/8 | **SG5041480** | Price |
| 1/2-13 | 5/8 | 7/8 | 7/16 | 1-3/16 | 1-3/16 | **SG5041479** | Price |
| 1/2-13 | 11/16 | 3/4 | 7/16 | 1-1/8 | 1-1/4 | **SG5041412** | Price |
| 1/2-13 | 3/4 | 3/4 | 15/32 | 1-1/4 | 1-1/4 | **SG5041413** | Price |
| 5/8-11 | 11/16 | 3/4 | 13/32 | 1-1/8 | 1-1/8 | **SG5041481** | Price |
| 5/8-11 | 11/16 | 3/4 | 7/16 | 1-1/8 | 1-1/4 | **SG5041415** | Price |
| 5/8-11 | 3/4 | 3/4 | 15/32 | 1-1/4 | 1-1/4 | **SG5041416** | Price |
| 5/8-11 | 3/4 | 3/4 | 1/2 | 1-1/4 | 1-1/8 | **SG5041482** | Price |
| 5/8-11 | 13/16 | 1 | 9/16 | 1-1/4 | 1-1/2 | **SG5041417** | Price |
| 5/8-11 | 13/16 | 1 | 9/16 | 1-3/8 | 1-1/2 | **SG5041483** | Price |
| 3/4-10 | 13/16 | 1 | 17/32 | 1-1/4 | 1-1/2 | **SG5041486** | Price |
| 3/4-10 | 13/16 | 1 | 9/16 | 1-1/4 | 1-1/2 | **SG5041418** | Price |
| 3/4-10 | 13/16 | 1 | 9/16 | 1-3/8 | 1-1/2 | **SG5041484** | Price |
| 3/4-10 | 7/8 | 1 | 9/16 | 1-1/2 | 1-1/2 | **SG5041419** | Price |
| 3/4-10 | 7/8 | 1 | 5/8 | 1-1/2 | 1-1/2 | **SG5041485** | Price |
| 3/4-10 | 1 | 1 | 5/8 | 1-5/8 | 1-3/4 | **SG5041420** | Price |
| 3/4-10 | 1 | 1-1/4 | 3/4 | 1-1/2 | 1-1/2 | **SG5041487** | Price |
| 3/4-10 | 1 | 1-1/2 | 3/4 | 1-3/4 | 1-3/4 | **SG5041421** | Price |
| 3/4-10 | 1-1/16 | 1-1/8 | 11/16 | 1-5/8 | 2 | **SG5041422** | Price |
| 7/8-9 | 1 | 1 | 5/8 | 1-5/8 | 1-3/4 | **SG5041423** | Price |
| 7/8-9 | 1 | 1-1/2 | 3/4 | 1-3/4 | 1-1/2 | **SG5041488** | Price |
| 7/8-9 | 1-1/16 | 1-1/16 | 3/4 | 1-3/4 | 1-1/2 | **SG5041490** | Price |
| 7/8-9 | 1-1/16 | 1-1/8 | 11/16 | 1-5/8 | 2 | **SG5041424** | Price |
| 7/8-9 | 1-1/8 | 1-1/2 | 3/4 | 1-3/4 | 1-1/2 | **SG5041489** | Price |
| 7/8-9 | 1-1/8 | 1-1/2 | 3/4 | 1-3/4 | 2 | **SG5041425** | Price |
| 7/8-9 | 1-5/16 | 1-1/4 | 15/16 | 2 | 2 | **SG5041429** | Price |
| 1-8 | 1-1/16 | 1-1/8 | 11/16 | 1-5/8 | 2 | **SG5041426** | Price |
| 1-8 | 1-1/8 | 1-1/2 | 3/4 | 1-3/4 | 1-3/4 | **SG5041491** | Price |
| 1-8 | 1-1/8 | 1-1/2 | 3/4 | 1-3/4 | 2 | **SG5041427** | Price |
| 1-8 | 1-1/4 | 1-1/4 | 7/8 | 2 | 2 | **SG5041428** | Price |
| 1-8 | 1-5/16 | 1-1/4 | 15/16 | 2 | 2 | **SG5041430** | Price |
| 1-1/4-7 | 1-3/8 | 1-3/4 | 1-1/8 | 2-1/2 | 2-1/2 | **SG5041432** | Price |

## Metric T-Slot Nuts

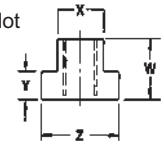
MADE IN THE USA



| Thread A | Metric T-Slot B | C | D | E | F | Order No. | Price |
|---|---|---|---|---|---|---|---|
| M6 x 1.0 | 8mm | 10mm | 6mm | 14mm | 19mm | **SG5061401** | Price |
| M6 x 1.0 | 10mm | 11mm | 6mm | 16mm | 22mm | **SG5061402** | Price |
| M8 x 1.25 | 10mm | 11mm | 6mm | 16mm | 22mm | **SG5061403** | Price |
| M10 x 1.5 | 12mm | 13mm | 7mm | 19mm | 22mm | **SG5061404** | Price |
| M10 x 1.5 | 14mm | 16mm | 9mm | 22mm | 29mm | **SG5061405** | Price |
| M12 x 1.75 | 14mm | 16mm | 9mm | 22mm | 29mm | **SG5061406** | Price |
| M12 x 1.75 | 16mm | 16mm | 9mm | 25mm | 29mm | **SG5061407** | Price |
| M12 x 1.75 | 17mm | 19mm | 11mm | 29mm | 32mm | **SG5061408** | Price |
| M16 x 2.0 | 18mm | 19mm | 11mm | 29mm | 32mm | **SG5061409** | Price |
| M16 x 2.0 | 22mm | 25mm | 14mm | 32mm | 38mm | **SG5061410** | Price |
| M20 x 2.5 | 22mm | 25mm | 14mm | 35mm | 38mm | **SG5061411** | Price |
| M24 x 3.0 | 27mm | 29mm | 18mm | 41mm | 51mm | **SG5061412** | Price |
| M24 x 3.0 | 33mm | 32mm | 24mm | 51mm | 51mm | **SG5061413** | Price |

## T-Slot Nuts

- Undersized to fit machine table slot
- Case hardened
- Black oxide finish






| Thread (in.) | Table Slot (X) (in.) | W (in.) | Y (in.) | Z (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 5/16-18 | 3/8 | 3/8 | 1/4 | 5/8 | **SG60403** | Price |
| 3/8-16 | 7/16 | 1/2 | 7/32 | 11/16 | **SG60404** | Price |
| 3/8-16 | 1/2 | 1/2 | 9/32 | 7/8 | **SG60405** | Price |
| 3/8-16 | 9/16 | 5/8 | 11/32 | 7/8 | **SG60406** | Price |
| 1/2-13 | 9/16 | 5/8 | 11/32 | 7/8 | **SG60409** | Price |
| 1/2-13 | 5/8 | 5/8 | 11/32 | 1 | **SG60410** | Price |
| 1/2-13 | 5/8 | 3/4 | 3/8 | 1-1/8 | **SG60411** | Price |
| 1/2-13 | 11/16 | 3/4 | 7/16 | 1-1/8 | **SG60412** | Price |
| 5/8-11 | 11/16 | 3/4 | 7/16 | 1-1/8 | **SG60415** | Price |
| 5/8-11 | 3/4 | 3/4 | 15/32 | 1-1/4 | **SG60416** | Price |
| 5/8-11 | 13/16 | 1 | 9/16 | 1-1/4 | **SG60417** | Price |
| 3/4-10 | 13/16 | 1 | 9/16 | 1-1/4 | **SG60418** | Price |
| 3/4-10 | 7/8 | 1 | 9/16 | 1-1/4 | **SG60419** | Price |

## Kwik-Turn T-Slot Nuts

- Material: Low Carbon Steel
- Finish: Black Oxide
- Threads: 2B-UNC (Inch)
- Heat Treat: Case Hardened
- 1/4 turn design allows the Kwik-Turn to be installed from the top of the T-Slot, in order to avoid uninstallation of set-ups when additional nuts and studs are required



| Thread (in.) | T-Slot Width (in.) | Width (in.) | Flange Ht. (in.) | Overall Ht. (in.) | Across Flats | Length | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 3/8-16 | 7/16 | 7/32 | 11/16 | 1/2 | .432 | .432 | **SG6643332** | Price |
| 3/8-16 | 1/2 | 9/32 | 7/8 | 1/2 | .495 | .495 | **SG6643333** | Price |
| 1/2-13 | 9/16 | 11/32 | 7/8 | 5/8 | .562 | .562 | **SG6643335** | Price |
| 1/2-13 | 5/8 | 11/32 | 1 | 5/8 | .620 | .620 | **SG6643336** | Price |
| 1/2-13 | 11/16 | 7/16 | 1-1/8 | 3/4 | .683 | .683 | **SG6643334** | Price |
| 5/8-11 | 11/16 | 7/16 | 1-1/8 | 3/4 | .683 | .683 | **SG6643338** | Price |
| 5/8-11 | 3/4 | 15/32 | 1-1/4 | 3/4 | .745 | .745 | **SG6643339** | Price |
| 3/4-10 | 1 | 5/8 | 1-5/8 | 1 | .995 | .995 | **SG6643345** | Price |

## Quarter Turn T-Slot Nuts

- Add studs, and clamps without tearing down prior set-ups!
- Last thread closed
- Alloy steel
- †Quarter Turn T-Slot Nuts are undersized to fit machine table slot





| English Table Slot B (in.) | † Metric Table Slot | Thread A (in.) | C (in.) | D | E (in.) | F (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 7/16 | 12mm | 3/8-16 | 1/2 | .208 | 7/16 | 3/4 | **SG5041450** | Price |
| 1/2 | 12mm | 3/8-16 | 1/2 | .271 | 1/2 | 1 | **SG5041451** | Price |
| 9/16 | 15mm | 1/2-13 | 5/8 | .333 | .563 | 15/16 | **SG5041452** | Price |
| 5/8 | 16mm | 1/2-13 | 5/8 | .333 | 5/8 | 1-1/4 | **SG5041453** | Price |
| 11/16 | 18mm | 1/2-13 | 3/4 | .427 | 11/16 | 1-3/8 | **SG5041456** | Price |
| 11/16 | 18mm | 5/8-11 | 3/4 | .427 | 11/16 | 1-3/8 | **SG5041454** | Price |
| 3/4 | 20mm | 5/8-11 | 3/4 | .458 | 3/4 | 1-1/2 | **SG5041455** | Price |
| 1 | 26mm | 3/4-10 | 1 | .615 | 1 | 1-3/4 | **SG5041457** | Price |

## Adjustable Step Blocks

- Step blocks are made of aluminum to prevent damage to the machine table surfaces
- Tooth design has no sharp edges which helps to prevent burrs and chip build-up in the steps
- Blocks are completely interchangeable with each other
- Step elevation 11/64”



| Description - Adjustable Step Block | | | | |
|---|---|---|---|---|
| Thickness (in.) | Width (in.) | Height | Order No. | Price |
| 1 | 5/8 | 1-1/16 | **SG6621705** | Price |
| 1 | 1 | 1-1/16 | **SG6621702** | Price |
| 1 | 2-3/16 | 3-3/4 | **SG6621703** | Price |
| 2 | 5/8 | 1-1/16 | **SG6621712** | Price |
| 2 | 2-3/16 | 3-3/4 | **SG6621714** | Price |
| 3 | 1 | 1-3/4 | **SG6621713** | Price |

| Description - Protective Pad | | | | |
|---|---|---|---|---|
| Thickness (in.) | Width (in.) | Height | Order No. | Price |
| 1 | - | - | **SG6621706** | Price |
| - | 2 | - | **SG6621715** | Price |

## Step Blocks - Steel

- Larger sizes have chamfered holes for ease of use
- Blocks work in conjunction with serrated end clamps
- Two halves = One Block





| Thickness - 1” Thick | | | | | |
|---|---|---|---|---|---|
| Height Ad. Range (in.) | Description | Length (in.) | Height | Order No. | Price |
| 3/4 to 1-5/8 | - | 1-1/16 | 11/16 | **SG5040102** | Price |
| 1-1/8 to 2-1/2 | - | 1-39/64 | 1-1/16 | **SG5040103** | Price |
| 2-1/2 to 6 | Chamfered Hole | 3-3/4 | 2-15/32 | **SG5040104** | Price |

| Thickness - 1-1/2” Thick | | | | | |
|---|---|---|---|---|---|
| Height Ad. Range (in.) | Description | Length (in.) | Height | Order No. | Price |
| 1-3/4 to 4 | - | 2-17/32 | 1-43/64 | **SG5040105** | Price |
| 2-1/2 to 6 | Chamfered Hole | 3-3/4 | 2-15/32 | **SG5040106** | Price |
| 3-1/2 to 9 | Chamfered Hole | 5-21/64 | 3-7/16 | **SG5040107** | Price |

| Thickness - 2” Thick | | | | | |
|---|---|---|---|---|---|
| Height Ad. Range (in.) | Description | Length (in.) | Height | Order No. | Price |
| 1-3/4 to 4 | - | 2-17/32 | 1-43/64 | **SG5040108** | Price |
| 2-1/2 to 6 | Chamfered Hole | 3-3/4 | 2-15/32 | **SG5040109** | Price |
| 3-1/2 to 9 | Chamfered Hole | 5-21/64 | 3-7/16 | **SG5040110** | Price |
| 4-7/8 to 10-1/2 | - | 7-3/8 | 4-3/4 | **SG5040111** | Price |

## Plain Straps

- Material: Low Carbon Steel, 2024 Aluminum
- Available in Fixture Pro TM Design Software



| Bolt Size (in.) | Slot Width (in.) | Slot Length (in.) | Width (in.) | Thickness (in.) | Length (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 1/4 or M6 | 9/32 | 5/8 | 5/8 | 3/8 | 2 | **SG6633111** | Price |
| 1/4 or M6 | 9/32 | 5/8 | 3/4 | 3/8 | 2 | **SG6633001** | Price |
| 5/16 or M8 | 11/32 | 3/4 | 7/8 | 1/2 | 2-1/2 | **SG6633113** | Price |
| 5/16 or M8 | 11/32 | 1-1/4 | 7/8 | 1/2 | 3-1/2 | **SG6633114** | Price |
| 5/16 or M8 | 11/32 | 1-1/4 | 1 | 1/2 | 3-1/2 | **SG6633004** | Price |
| 3/8 or M10 | 13/32 | 1-1/8 | 1-1/4 | 5/8 | 3-1/2 | **SG6633115** | Price |
| 3/8 or M10 | 13/32 | 1-5/8 | 1-1/4 | 5/8 | 4-1/2 | **SG6633116** | Price |
| 3/8 or M10 | 13/32 | 1-5/8 | 1-1/2 | 5/8 | 4-1/2 | **SG6633006** | Price |
| 1/2 or M12 | 17/32 | 1-1/4 | 1-1/2 | 3/4 | 4-1/2 | **SG6633117** | Price |
| 1/2 or M12 | 17/32 | 2 | 1-1/2 | 3/4 | 6 | **SG6633118** | Price |
| 1/2 or M12 | 17/32 | 2 | 2 | 3/4 | 6 | **SG6633008** | Price |
| 5/8 or M16 | 21/32 | 1-1/2 | 1-3/4 | 7/8 | 7 | **SG6633119** | Price |
| 5/8 or M16 | 21/32 | 2-1/2 | 1-3/4 | 7/8 | 7 | **SG6633120** | Price |
| 3/4 or M19 | 25/32 | 1-1/2 | 1-3/4 | 1 | 5 | **SG6633121** | Price |
| 3/4 or M19 | 25/32 | 2-1/2 | 1-3/4 | 1 | 7 | **SG6633122** | Price |

## Jergens Steel Heel Straps - Coarse & Fine Pitch



- Material: C-1018
- Finish: Black Oxide
- Heat Treat: Case Hardened 50-54 R30N

| Style - Coarse Pitch | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Bolt Size (in.) | Slot Width (in.) | Slot Length (in.) | Nose Dia. (in.) | Nose Ht. (in.) | Ht. (in.) | Clamp Length (in.) | Clamp Width (in.) | Order No. | Price |
| 1/2 or M12 | 17/32 | 1/2 | 1/2 | 1/4 | 5/8 | 2-1/2 | 1-1/4 | **SG6646814** | Price |
| 1/2 or M12 | 17/32 | 1-1/4 | 1/2 | 1/4 | 3/4 | 4 | 1-1/4 | **SG6646815** | Price |
| 1/2 or M12 | 17/32 | 2 | 1/2 | 1/4 | 7/8 | 6 | 1-1/4 | **SG6646816** | Price |
| 5/8 or M16 | 21/32 | 1/2 | 5/8 | 1/4 | 5/8 | 3 | 1-1/4 | **SG6646817** | Price |
| 5/8 or M16 | 21/32 | 1-1/4 | 5/8 | 3/8 | 3/4 | 5 | 1-1/2 | **SG6646818** | Price |
| 5/8 or M16 | 21/32 | 2 | 5/8 | 3/8 | 7/8 | 7 | 1-1/2 | **SG6646819** | Price |
| 3/4 or M20 | 25/32 | 3/4 | 5/8 | 3/8 | 3/4 | 4 | 1-1/2 | **SG6646820** | Price |
| 3/4 or M20 | 25/32 | 1-1/2 | 5/8 | 3/8 | 1 | 6 | 1-1/2 | **SG6646821** | Price |
| 3/4 or M20 | 25/32 | 2-1/4 | 5/8 | 3/8 | 1-1/8 | 8 | 1-3/4 | **SG6646822** | Price |

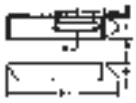
| Style - Fine Pitch | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Bolt Size (in.) | Slot Width (in.) | Slot Length (in.) | Nose Dia. (in.) | Nose Ht. (in.) | Ht. (in.) | Clamp Length (in.) | Clamp Width (in.) | Order No. | Price |
| 1/2 or M12 | 9/16 | 1/2 | 1/2 | 1/4 | 1/2 | 2-1/2 | 1-1/8 | **SG6646834** | Price |
| 1/2 or M12 | 9/16 | 1-1/4 | 1/2 | 1/4 | 3/4 | 4 | 1-1/4 | **SG6646835** | Price |
| 1/2 or M12 | 9/16 | 2 | 1/2 | 1/4 | 7/8 | 6 | 1-1/4 | **SG6646836** | Price |
| 5/8 or M16 | 11/16 | 1/2 | 5/8 | 1/4 | 5/8 | 2-1/2 | 1-1/4 | **SG6646837** | Price |
| 5/8 or M16 | 11/16 | 1-1/4 | 5/8 | 3/8 | 3/4 | 4 | 1-1/2 | **SG6646838** | Price |
| 5/8 or M16 | 11/16 | 2 | 5/8 | 3/8 | 7/8 | 6 | 1-1/2 | **SG6646839** | Price |
| 3/4 or M20 | 13/16 | 1-1/2 | 5/8 | 3/8 | 1 | 6 | 1-5/8 | **SG6646841** | Price |
| 3/4 or M20 | 13/16 | 3/4 | 5/8 | 3/8 | 3/4 | 4 | 1-/12 | **SG6646840** | Price |
| 3/4 or M20 | 13/16 | 2-1/4 | 5/8 | 3/8 | 1-1/8 | 8 | 1-3/4 | **SG6646842** | Price |

## TE-CO Serrated End Clamps

MADE IN THE USA



- Case hardened
- Black oxide finish
- Teeth match all step blocks



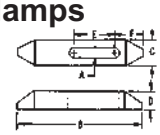
| Stud Size-A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 5/16 & 3/8 | 2-1/2 | 1.00 | 1/2 | 13/16 | 27/32 | **SG5030501** | Price |
| 5/16 & 3/8 | 4 | 1.00 | 5/8 | 1-7/16 | 1-1/32 | **SG5030502** | Price |
| 5/16 & 3/8 | 6 | 1-1/8 | 3/4 | 2-3/16 | 1-5/32 | **SG5030503** | Price |
| 1/2 | 2-1/2 | 1-1/8 | 1/2 | 11/16 | 29/32 | **SG5030504** | Price |
| 1/2 | 4 | 1-1/4 | 3/4 | 1-5/16 | 1-5/32 | **SG5030505** | Price |
| 1/2 | 6 | 1-1/4 | 7/8 | 2-1/16 | 1-9/32 | **SG5030506** | Price |
| 5/8 | 2-1/2 | 1-1/4 | 5/8 | 9/16 | 31/32 | **SG5030507** | Price |
| 5/8 | 4 | 1-1/2 | 3/4 | 1-3/16 | 1-9/32 | **SG5030508** | Price |
| 5/8 | 6 | 1-1/2 | 7/8 | 1-15/16 | 1-13/32 | **SG5030509** | Price |
| 3/4 | 4 | 1-1/2 | 3/4 | 1-1/16 | 1-11/32 | **SG5030510** | Price |
| 3/4 | 6 | 1-1/2 | 1.00 | 1-15/16 | 1-15/32 | **SG5030511** | Price |
| 3/4 | 8 | 1-3/4 | 1-1/8 | 2-3/16 | 1-29/32 | **SG5030512** | Price |
| 7/8 & 1 | 10 | 2.00 | 1-1/2 | 2-15/16 | 2-1/32 | **SG5030515** | Price |
| 7/8 & 1 | 6 | 2.00 | 1-1/4 | 1-11/16 | 1-27/32 | **SG5030513** | Price |
| 7/8 & 1 | 8 | 2.00 | 1-3/8 | 1-15/16 | 2-1/32 | **SG5030514** | Price |

## TE-CO Plain Clamps

MADE IN THE USA



- Case hardened
- Black oxide finish



| Stud Size-A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 5/16 & 3/8 | 2-1/2 | 1.00 | 1/2 | 13/16 | 27/32 | **SG5030401** | Price |
| 5/16 & 3/8 | 4 | 1.00 | 5/8 | 1-7/16 | 1-1/32 | **SG5030402** | Price |
| 5/16 & 3/8 | 6 | 1-1/8 | 3/4 | 2-3/16 | 1-5/32 | **SG5030403** | Price |
| 1/2 | 2-1/2 | 1-1/8 | 1/2 | 11/16 | 29/32 | **SG5030404** | Price |
| 1/2 | 4 | 1-1/4 | 3/4 | 1-5/16 | 1-5/32 | **SG5030405** | Price |
| 1/2 | 6 | 1-1/4 | 7/8 | 2-1/16 | 1-5/32 | **SG5030406** | Price |
| 5/8 | 2-1/2 | 1-1/4 | 5/8 | 9/16 | 31/32 | **SG5030407** | Price |
| 5/8 | 4 | 1-1/2 | 3/4 | 1-3/16 | 1-7/32 | **SG5030408** | Price |
| 5/8 | 6 | 1-1/2 | 7/8 | 1-15/16 | 1-11/32 | **SG5030409** | Price |
| 3/4 | 4 | 1-1/2 | 3/4 | 1-1/16 | 1-9/32 | **SG5030410** | Price |
| 3/4 | 6 | 1-1/2 | 1.00 | 1-15/16 | 1-15/32 | **SG5030411** | Price |
| 3/4 | 8 | 1-3/4 | 1-1/8 | 2-3/16 | 1-29/32 | **SG5030412** | Price |
| 7/8 & 1 | 10 | 2.00 | 1-1/2 | 2-15/16 | 2-1/32 | **SG5030415** | Price |
| 7/8 & 1 | 6 | 2.00 | 1-1/4 | 1-11/16 | 1-27/32 | **SG5030413** | Price |
| 7/8 & 1 | 8 | 2.00 | 1-3/8 | 1-15/16 | 2-1/32 | **SG5030414** | Price |

## TE-CO Basic Clamp Kits

**Contains:**

- 14 Clamps
- 1 Holder

MADE IN THE USA



| Stud Size (in.) | Serrated End Clamps, 2 ea. | Plain Clamps, 2ea. | Step Clamps, 2 ea. | Order No. | Price |
|---|---|---|---|---|---|
| 3/8-16 | 30501, 30502, 30503 | 30401, 30402, 30403 | 30801 | **SG5020901** | Price |
| 1/2-13 | 30504, 30505, 30506 | 30404, 30405, 30406 | 30802 | **SG5020902** | Price |
| 5/8-11 | 30507, 30508, 30509 | 30407, 30408, 30409 | 30803 | **SG5020903** | Price |

## Jergens Adjustable Step Block Kits

- Step blocks are made of aluminum & steel to prevent damage to machine table surfaces
- Tooth design has no sharp edges which helps to prevent burrs and chip build-up in the steps



| No. of Pieces | Description | Order No. | Price |
|---|---|---|---|
| 36 | Adjustable Steel Kit Includes: 8 ea of #21831, #21832; 4 ea #21833, 16 ea #27106 | **SG6621821** | Price |
| 36 | Standard Aluminum 1"W Kit Includes: 8 ea of #21702, 21705; 4 ea #21703, 16 ea #27106 | **SG6621701** | Price |
| 36 | Heavy Duty Aluminum 2"W Kit Includes: 8 ea of #21702, 21705; 4 ea #21703, 16 ea #27106 | **SG6621711** | Price |

## TE-CO Step Block & Clamp Sets

**Contains:**

- 6 Step blocks
- 6 Serrated end clamps
- 1 Holder

MADE IN THE USA



| Style - With 1/2" Thick Steel Blocks | | | | |
|---|---|---|---|---|
| Stud Size (in.) | Step Blocks, 2 ea. | Serrated End Clamps, 2 ea. | Order No. | Price |
| 1/2 | 40105, 40106, 40107 | 30504, 30505, 30506 | **SG5021004** | Price |
| 5/8 | 40105, 40106, 40107 | 30507, 30508, 30509 | **SG5021005** | Price |
| 3/4 | 40105, 40106, 40107 | 30510, 30511, 30512 | **SG5021006** | Price |

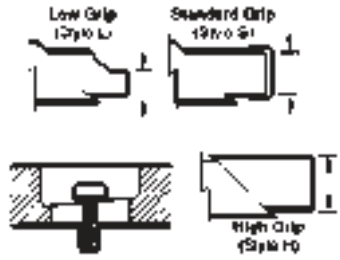
| Style - With 1" Thick Step Blocks | | | | |
|---|---|---|---|---|
| Stud Size (in.) | Step Blocks, 2 ea. | Serrated End Clamps, 2 ea. | Order No. | Price |
| 5/16 & 3/8 | 40102, 40103, 40104 | 30501, 30502, 30503 | **SG5021001** | Price |
| 1/2 & 5/8 | 40102, 40103, 40104 | 30504, 30505, 30506 | **SG5021002** | Price |
| 5/8 | 40102, 40103, 40104 | 30507, 30508, 30509 | **SG5021003** | Price |

## Heavy Duty Double Action Edge Clamps

MADE IN THE USA

- Double action, adjustable nose exerts clamping forces both in and down
- Low profile provides greater machining clearance
- "V" groove in nose allows positive grip on round parts and corners
- Removable aluminum nose cap prevents damage to work piece
- Black oxide finish
- Case hardened
- Tapered slot prevents clamp from sliding off workpiece during tightening
- Standard grip (with removable aluminum nose cap)






| | | | | | High Grip | | Low Grip | | Standard Grip | |
|---|---|---|---|---|---|---|---|---|---|---|
| Height (in.) | Clamp Width (in.) | Clamp Length (in.) | Slot Width (in.) | Slot Length (in.) | Order No. | Price | Order No. | Price | Order No. | Price |
| 5/8 | 1.00 | 1-7/8 | 5/16 | 1/4 | - | - | **SG5033817** | Price | **SG5033818** | Price |
| 5/8 | 1.00 | 2-3/8 | 5/16 | 3/4 | - | - | **SG5033819** | Price | - | - |
| 5/8 | 1.00 | 2-7/8 | 5/16 | 1-1/4 | - | - | **SG5033821** | Price | - | - |
| 5/8 | 1-1/4 | 2-5/16 | 3/8 | 3/8 | - | - | **SG5033801** | Price | **SG5033802** | Price |
| 5/8 | 1-1/4 | 2-3/4 | 3/8 | 11/16 | - | - | **SG5033890** | Price | **SG5033891** | Price |
| 5/8 | 1-1/4 | 4-1/8 | 3/8 | 2 | - | - | **SG5033803** | Price | **SG5033804** | Price |
| 5/8 | 1-1/2 | 5-5/16 | 5/8 | 2 | - | - | **SG5033716** | Price | - | - |
| 3/4 | 1-1/2 | 3-5/16 | 1/2 | 3/4 | - | - | **SG5033805** | Price | **SG5033806** | Price |
| 3/4 | 1-1/2 | 3-5/16 | 5/8 | 5/8 | - | - | **SG5033710** | Price | **SG5033711** | Price |
| 3/4 | 1-1/2 | 5-3/16 | 1/2 | 2-1/2 | - | - | **SG5033807** | Price | **SG5033808** | Price |
| 3/4 | 1-1/2 | 5-3/16 | 5/8 | 2-1/2 | - | - | **SG5033712** | Price | **SG5033713** | Price |
| 7/8 | 1-1/2 | 3-7/8 | 1/2 | 1-1/4 | - | - | **SG5033823** | Price | **SG5033824** | Price |
| 7/8 | 1-1/2 | 3-7/8 | 5/8 | 1-1/4 | - | - | **SG5033714** | Price | **SG5033715** | Price |
| 7/8 | 1-1/2 | 5-5/16 | 1/2 | 2 | - | - | **SG5033825** | Price | **SG5033826** | Price |
| 7/8 | 1-1/2 | 5-5/16 | 5/8 | 2 | - | - | - | - | **SG5033717** | Price |
| 7/8 | 1-1/2 | 7-1/4 | 1/2 | 3 | - | - | - | - | **SG5033828** | Price |
| 1-1/4 | 1-1/2 | 5-13/16 | 1/2 | 2-1/4 | - | - | **SG5033809** | Price | **SG5033810** | Price |
| 1-1/4 | 1-1/2 | 7-1/8 | 1/2 | 3-5/16 | - | - | **SG5033812** | Price | **SG5033813** | Price |
| 1-1/4 | 1-1/2 | 7-3/8 | 1/2 | 3-5/16 | **SG5033814** | Price | - | - | - | - |
| 1-1/4 | 2.00 | 5-1/4 | 3/4 | 1-3/8 | **SG5033815** | Price | - | - | - | - |
| 1-1/2 | 2-1/2 | 6-7/16 | 7/8 | 2 | **SG5033816** | Price | - | - | - | - |

## Tugger® T-Bolts

MADE IN THE USA

- Black Oxide finish
- Medium Carbon Steel
- Heat treated
- Thread Class 2A UNC



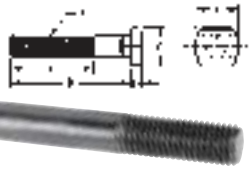


| A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | T-Slot Width (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 1/2-13 | 2 | 1-1/2 | 5/16 | 7/8 | 1/2 | **SG5046402** | Price |
| 1/2-13 | 3 | 2 | 5/16 | 7/8 | 1/2 | **SG5046404** | Price |
| 1/2-13 | 4 | 2 | 5/16 | 7/8 | 1/2 | **SG5046406** | Price |
| 1/2-13 | 5 | 2 | 5/16 | 7/8 | 1/2 | **SG5046407** | Price |
| 1/2-13 | 6 | 2 | 5/16 | 7/8 | 1/2 | **SG5046408** | Price |
| 1/2-13 | 7 | 2 | 5/16 | 7/8 | 1/2 | **SG5046409** | Price |
| 1/2-13 | 8 | 2 | 5/16 | 7/8 | 1/2 | **SG5046410** | Price |
| 1/2-13 | 10 | 2 | 5/16 | 7/8 | 1/2 | **SG5046411** | Price |
| 5/8-11 | 2 | 1-1/2 | 13/32 | 1-1/8 | 5/8 | **SG5046502** | Price |
| 5/8-11 | 3 | 2 | 13/32 | 1-1/8 | 5/8 | **SG5046504** | Price |
| 5/8-11 | 4 | 2 | 13/32 | 1-1/8 | 5/8 | **SG5046506** | Price |
| 5/8-11 | 5 | 2 | 13/32 | 1-1/8 | 5/8 | **SG5046507** | Price |
| 5/8-11 | 6 | 2 | 13/32 | 1-1/8 | 5/8 | **SG5046508** | Price |
| 5/8-11 | 7 | 2 | 13/32 | 1-1/8 | 5/8 | **SG5046509** | Price |
| 3/4-10 | 4 | 2 | 17/32 | 1-5/16 | 3/4 | **SG5046603** | Price |
| 3/4-10 | 5 | 2 | 17/32 | 1-5/16 | 3/4 | **SG5046604** | Price |
| 3/4-10 | 6 | 2 | 17/32 | 1-5/16 | 3/4 | **SG5046605** | Price |
| 3/4-10 | 8 | 2 | 17/32 | 1-5/16 | 3/4 | **SG5046607** | Price |

## Heavy Duty Undersized Head T-Slot Bolts — 4140 Steel

MADE IN THE USA

- Black Oxide finish
- 4140 Steel
- Bolt head dimension "D" is undersized to fit machine table slot
- Thread Class 2A UNC



| A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | Table Slot (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 1/2-13 | 2 | 1 | 5/16 | 7/8 | 1-1/4 | 1/2 | **SG5045460** | Price |
| 1/2-13 | 3 | 1-1/2 | 5/16 | 7/8 | 1-1/4 | 1/2 | **SG5045462** | Price |
| 1/2-13 | 4 | 1-1/2 | 5/16 | 7/8 | 1-1/4 | 1/2 | **SG5045464** | Price |
| 1/2-13 | 5 | 2 | 5/16 | 7/8 | 1-1/4 | 1/2 | **SG5045465** | Price |
| 1/2-13 | 6 | 2 | 5/16 | 7/8 | 1-1/4 | 1/2 | **SG5045466** | Price |
| 1/2-13 | 8 | 2 | 5/16 | 7/8 | 1-1/4 | 1/2 | **SG5045467** | Price |
| 1/2-13 | 9 | 2 | 5/16 | 7/8 | 1-1/4 | 1/2 | **SG5045468** | Price |
| 5/8-11 | 2 | 1-1/4 | 3/8 | 1-1/8 | 1-1/2 | 5/8 | **SG5045560** | Price |
| 5/8-11 | 3 | 1-1/2 | 3/8 | 1-1/8 | 1-1/2 | 5/8 | **SG5045562** | Price |
| 5/8-11 | 4 | 1-1/2 | 3/8 | 1-1/8 | 1-1/2 | 5/8 | **SG5045564** | Price |
| 5/8-11 | 5 | 1-1/2 | 3/8 | 1-1/8 | 1-1/2 | 5/8 | **SG5045565** | Price |
| 5/8-11 | 6 | 1-1/2 | 3/8 | 1-1/8 | 1-1/2 | 5/8 | **SG5045566** | Price |
| 5/8-11 | 7 | 3 | 3/8 | 1-1/8 | 1-1/2 | 5/8 | **SG5045572** | Price |
| 5/8-11 | 8 | 3 | 3/8 | 1-1/8 | 1-1/2 | 5/8 | **SG5045567** | Price |
| 5/8-11 | 10 | 3 | 3/8 | 1-1/8 | 1-1/2 | 5/8 | **SG5045568** | Price |
| 5/8-11 | 12 | 3 | 3/8 | 1-1/8 | 1-1/2 | 5/8 | **SG5045573** | Price |
| 3/4-10 | 3 | 1-1/2 | 7/16 | 1-5/16 | 1-3/4 | 3/4 | **SG5045660** | Price |
| 3/4-10 | 4 | 1-1/2 | 7/16 | 1-5/16 | 1-3/4 | 3/4 | **SG5045662** | Price |
| 3/4-10 | 5 | 1-1/2 | 7/16 | 1-5/16 | 1-3/4 | 3/4 | **SG5045663** | Price |
| 3/4-10 | 6 | 1-1/2 | 7/16 | 1-5/16 | 1-3/4 | 3/4 | **SG5045664** | Price |
| 3/4-10 | 7 | 3 | 7/16 | 1-5/16 | 1-3/4 | 3/4 | **SG5045670** | Price |
| 3/4-10 | 8 | 3 | 7/16 | 1-5/16 | 1-3/4 | 3/4 | **SG5045665** | Price |
| 3/4-10 | 10 | 3 | 7/16 | 1-5/16 | 1-3/4 | 3/4 | **SG5045666** | Price |
| 3/4-10 | 12 | 3 | 7/16 | 1-5/16 | 1-3/4 | 3/4 | **SG5045667** | Price |

## Jergens T-Bolts



- Material: 4140 Forging (140,000 PSI) Tensile
- Finish: Black Oxide
- Heat Treat: Rc 32-36
- Thread: 2A-UNC
- Available in Fixture Pro™ Design Software

| Thread Size (in.) | Length Under Head (in.) | T-Slot Width (in.) | T-Slot Thickness (in.) | Thread Length (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 3/8-16 | 1-1/2 | 11/16 | 1/4 | 3/4 | **SG6642101** | Price |
| 3/8-16 | 2 | 11/16 | 1/4 | 1-1/4 | **SG6642102** | Price |
| 3/8-16 | 2-1/2 | 11/16 | 1/4 | 1-1/4 | **SG6642103** | Price |
| 3/8-16 | 3 | 11/16 | 1/4 | 1-1/2 | **SG6642104** | Price |
| 3/8-16 | 3-1/2 | 11/16 | 1/4 | 1-1/2 | **SG6642105** | Price |
| 3/8-16 | 4 | 11/16 | 1/4 | 1-1/2 | **SG6642106** | Price |
| 1/2-13 | 1-1/2 | 7/8 | 1/4 | 3/4 | **SG6642301** | Price |
| 1/2-13 | 2 | 7/8 | 1/4 | 1-1/4 | **SG6642302** | Price |
| 1/2-13 | 2-1/2 | 7/8 | 1/4 | 1-1/4 | **SG6642303** | Price |
| 1/2-13 | 3 | 7/8 | 1/4 | 1-1/2 | **SG6642304** | Price |
| 1/2-13 | 3-1/2 | 7/8 | 1/4 | 1-1/2 | **SG6642305** | Price |
| 1/2-13 | 4 | 7/8 | 1/4 | 2 | **SG6642306** | Price |
| 1/2-13 | 4-1/2 | 7/8 | 1/4 | 2 | **SG6642307** | Price |
| 1/2-13 | 5 | 7/8 | 1/4 | 2 | **SG6642308** | Price |
| 1/2-13 | 5-1/2 | 7/8 | 1/4 | 2 | **SG6642309** | Price |
| 1/2-13 | 6 | 7/8 | 1/4 | 2 | **SG6642310** | Price |
| 5/8-11 | 2 | 1-1/8 | 3/8 | 1-1/4 | **SG6642502** | Price |
| 5/8-11 | 2-1/2 | 1-1/8 | 3/8 | 1-1/4 | **SG6642503** | Price |
| 5/8-11 | 3 | 1-1/8 | 3/8 | 1-1/2 | **SG6642504** | Price |
| 5/8-11 | 3-1/2 | 1-1/8 | 3/8 | 1-1/2 | **SG6642505** | Price |
| 5/8-11 | 4 | 1-1/8 | 3/8 | 1-1/2 | **SG6642506** | Price |
| 5/8-11 | 5 | 1-1/8 | 3/8 | 1-1/2 | **SG6642507** | Price |
| 5/8-11 | 6 | 1-1/8 | 3/8 | 1-1/2 | **SG6642508** | Price |
| 5/8-11 | 8 | 1-1/8 | 3/8 | 3 | **SG6642509** | Price |
| 5/8-11 | 10 | 1-1/8 | 3/8 | 3 | **SG6642510** | Price |
| 5/8-11 | 12 | 1-1/8 | 3/8 | 3 | **SG6642511** | Price |
| 3/4-10 | 2-1/2 | 1-1/4 | 1/2 | 1-1/4 | **SG6642701** | Price |
| 3/4-10 | 3 | 1-1/4 | 1/2 | 1-1/2 | **SG6642702** | Price |
| 3/4-10 | 3-1/2 | 1-1/4 | 1/2 | 1-1/2 | **SG6642703** | Price |
| 3/4-10 | 4 | 1-1/4 | 1/2 | 1-1/2 | **SG6642704** | Price |
| 3/4-10 | 5 | 1-1/4 | 1/2 | 1-1/2 | **SG6642705** | Price |
| 3/4-10 | 6 | 1-1/4 | 1/2 | 1-1/2 | **SG6642706** | Price |
| 3/4-10 | 8 | 1-1/4 | 1/2 | 3 | **SG6642707** | Price |
| 3/4-10 | 10 | 1-1/4 | 1/2 | 3 | **SG6642708** | Price |
| 3/4-10 | 12 | 1-1/4 | 1/2 | 3 | **SG6642709** | Price |
| 1-8 | 4 | 1-11/16 | 11/16 | 2-1/2 | **SG6642901** | Price |
| 1-8 | 5 | 1-11/16 | 11/16 | 2-1/2 | **SG6642902** | Price |
| 1-8 | 6 | 1-11/16 | 11/16 | 2-1/2 | **SG6642903** | Price |
| 1-8 | 7 | 1-11/16 | 11/16 | 2-1/2 | **SG6642904** | Price |
| 1-8 | 8 | 1-11/16 | 11/16 | 3 | **SG6642905** | Price |
| 1-8 | 9 | 1-11/16 | 11/16 | 3 | **SG6642912** | Price |
| 1-8 | 10 | 1-11/16 | 11/16 | 3 | **SG6642906** | Price |
| 1-8 | 12 | 1-11/16 | 11/16 | 3 | **SG6642907** | Price |
| 1-8 | 14 | 1-11/16 | 11/16 | 3 | **SG6642911** | Price |
| 1-1/4-7 | 8 | 1-7/8 | 1-7/8 | 5 | **SG6643004** | Price |
| 1-1/4-7 | 9 | 1-7/8 | 7/8 | 5 | **SG6643005** | Price |
| 1-1/4-7 | 10 | 1-7/8 | 7/8 | 5 | **SG6643006** | Price |
| 1-1/4-7 | 12 | 1-7/8 | 7/8 | 5 | **SG6643007** | Price |
| 1-1/4-7 | 14 | 1-7/8 | 7/8 | 5 | **SG6643008** | Price |
| 1-1/4-7 | 16 | 1-7/8 | 7/8 | 5 | **SG6643009** | Price |
| 1-1/4-7 | 18 | 1-7/8 | 7/8 | 5 | **SG6643011** | Price |
| 1-1/4-7 | 22 | 1-7/8 | 7/8 | 5 | **SG6643012** | Price |
| 1-1/4-7 | 24 | 1-7/8 | 7/8 | 5 | **SG6643003** | Price |

## Jergens T-Slot Bolts



- Material: 4140 Forging (140,000 PSI) Tensile
- Finish: Black Oxide
- Heat Treat: Rc 32-36
- Thread: 2A-UNC
- Available in Fixture Pro™ Design Software

| Thread Size (in.) | Length Under Head (in.) | T-Slot Base Width (in. ) | T-Slot Thickness (in.) | Thread Length | T-Slot Table Width | T-Slot Length | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 1/2-13 | 2 | 7/8 | 5/16 | 1 | 1/2 | 1-1/4 | **SG6644101** | Price |
| 1/2-13 | 2-1/2 | 7/8 | 5/16 | 1-1/4 | 1/2 | 1-1/4 | **SG6644102** | Price |
| 1/2-13 | 3 | 7/8 | 5/16 | 1-1/2 | 1/2 | 1-1/4 | **SG6644103** | Price |
| 1/2-13 | 3-1/2 | 7/8 | 5/16 | 1-1/2 | 1/2 | 1-1/4 | **SG6644104** | Price |
| 1/2-13 | 4 | 7/8 | 5/16 | 1-1/2 | 1/2 | 1-1/4 | **SG6644105** | Price |
| 1/2-13 | 5 | 7/8 | 5/16 | 2 | 1/2 | 1-1/4 | **SG6644106** | Price |
| 1/2-13 | 6 | 7/8 | 5/16 | 2 | 1/2 | 1-1/4 | **SG6644107** | Price |
| 1/2-13 | 8 | 7/8 | 5/16 | 2 | 1/2 | 1-1/4 | **SG6644108** | Price |
| 5/8-11 | 2 | 1-1/8 | 3/8 | 1-1/4 | 5/8 | 1-1/2 | **SG6644301** | Price |
| 5/8-11 | 2-1/2 | 1-1/8 | 3/8 | 1-1/4 | 5/8 | 1-1/2 | **SG6644302** | Price |
| 5/8-11 | 3 | 1-1/8 | 3/8 | 1-1/2 | 5/8 | 1-1/2 | **SG6644303** | Price |
| 5/8-11 | 3-1/2 | 1-1/8 | 3/8 | 1-1/2 | 5/8 | 1-1/2 | **SG6644304** | Price |
| 5/8-11 | 4 | 1-1/8 | 3/8 | 1-1/2 | 5/8 | 1-1/2 | **SG6644305** | Price |
| 5/8-11 | 5 | 1-1/8 | 3/8 | 1-1/2 | 5/8 | 1-1/2 | **SG6644306** | Price |
| 5/8-11 | 6 | 1-1/8 | 3/8 | 1-1/2 | 5/8 | 1-1/2 | **SG6644307** | Price |
| 5/8-11 | 8 | 1-1/8 | 3/8 | 3 | 5/8 | 1-1/2 | **SG6644308** | Price |
| 5/8-11 | 10 | 1-1/8 | 3/8 | 3 | 5/8 | 1-1/2 | **SG6644309** | Price |
| 5/8-11 | 12 | 1-1/8 | 3/8 | 3 | 5/8 | 1-1/2 | **SG6644310** | Price |
| 3/4-10 | 2-1/2 | 1-5/16 | 7/16 | 1-1/4 | 3/4 | 1-3/4 | **SG6644502** | Price |
| 3/4-10 | 3 | 1-5/16 | 7/16 | 1-1/2 | 3/4 | 1-3/4 | **SG6644503** | Price |
| 3/4-10 | 3-1/2 | 1-5/16 | 7/16 | 1-1/2 | 3/4 | 1-3/4 | **SG6644504** | Price |
| 3/4-10 | 4 | 1-5/16 | 7/16 | 1-1/2 | 3/4 | 1-3/4 | **SG6644505** | Price |
| 3/4-10 | 5 | 1-5/16 | 7/16 | 1-1/2 | 3/4 | 1-3/4 | **SG6644506** | Price |
| 3/4-10 | 6 | 1-5/16 | 7/16 | 1-1/2 | 3/4 | 1-3/4 | **SG6644507** | Price |
| 3/4-10 | 8 | 1-5/16 | 7/16 | 3 | 3/4 | 1-3/4 | **SG6644508** | Price |
| 3/4-10 | 10 | 1-5/16 | 7/16 | 3 | 3/4 | 1-3/4 | **SG6644509** | Price |
| 3/4-10 | 12 | 1-5/16 | 7/16 | 3 | 3/4 | 1-3/4 | **SG6644510** | Price |
| 1-8 | 3-1/2 | 1-11/16 | 1/2 | 2 | 1 | 2-1/4 | **SG6644701** | Price |
| 1-8 | 4 | 1-11/16 | 1/2 | 2 | 1 | 2-1/4 | **SG6644702** | Price |
| 1-8 | 4-1/2 | 1-11/16 | 1/2 | 2-1/2 | 1 | 2-1/4 | **SG6644703** | Price |
| 1-8 | 5 | 1-11/16 | 1/2 | 2-1/2 | 1 | 2-1/4 | **SG6644704** | Price |
| 1-8 | 6 | 1-11/16 | 1/2 | 2-1/2 | 1 | 2-1/4 | **SG6644705** | Price |
| 1-8 | 8 | 1-11/16 | 1/2 | 3 | 1 | 2 1/4 | **SG6644706** | Price |
| 1-8 | 10 | 1-11/16 | 1/2 | 3 | 1 | 2-1/4 | **SG6644707** | Price |
| 1-8 | 12 | 1-11/16 | 1/2 | 3 | 1 | 2-1/4 | **SG6644708** | Price |

## Jergens Dovetail Bolts



- Material: 4140 Forging (140,000 PSI) Tensile
- Finish: Black Oxide
- Heat Treat: Rc 32-36
- Thread: 2A-UNC
- Available in FeaturePro™ Design Software

| Thread Size (in.) | Bolt Length (in.) | Bottom Dovetail Width (in.) | Dovetail Ht. (in.) | Thread Length (in.) | Top Dovetail Width (in.) | Dovetail Length (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 5/8-11 | 1-1/4 | 1-1/16 | 3/8 | 3/4 | 3/4 | 1-1/8 | **SG6617901** | Price |
| 5/8-11 | 2 | 1-1/16 | 3/8 | 1-1/8 | 3/4 | 1-1/8 | **SG6617902** | Price |
| 5/8-11 | 2-3/4 | 1-1/16 | 3/8 | 1-1/2 | 3/4 | 1-1/8 | **SG6617903** | Price |
| 5/8-11 | 3-3/4 | 1-1/16 | 3/8 | 1-1/2 | 3/4 | 1-1/8 | **SG6617904** | Price |

## T-Slot Bolts

- Hot forged from C-1045 Steel
- Class 3 N.C.
- Full smooth cut threads





| Thread Size-A | Length Under Head (in.) | T-Slot Width-B (in.) | C (in.) | D (in.) | G (in.) | H (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 3/8-16 | 1 | 3/8 | 11/16 | 13/16 | 3/16 | 3/16 | **SF51010100** | Price |
| 3/8-16 | 1-1/2 | 3/8 | 11/16 | 13/16 | 3/16 | 3/16 | **SF51010150** | Price |
| 3/8-16 | 2 | 3/8 | 11/16 | 13/16 | 3/16 | 3/16 | **SF51010200** | Price |
| 3/8-16 | 2-1/2 | 3/8 | 11/16 | 13/16 | 3/16 | 3/16 | **SF51010250** | Price |
| 3/8-16 | 2-3/4 | 3/8 | 11/16 | 13/16 | 3/16 | 3/16 | **SF51010275** | Price |
| 3/8-16 | 3 | 3/8 | 11/16 | 13/16 | 3/16 | 3/16 | **SF51010300** | Price |
| 3/8-16 | 3-1/2 | 3/8 | 11/16 | 13/16 | 3/16 | 3/16 | **SF51010350** | Price |
| 1/2-13 | 1-3/4 | 1/2 | 7/8 | 1-3/16 | 1/16 | 9/32 | **SF51020175** | Price |
| 1/2-13 | 2 | 1/2 | 7/8 | 1-3/16 | 1/16 | 9/32 | **SF51020200** | Price |
| 1/2-13 | 2-1/4 | 1/2 | 7/8 | 1-3/16 | 1/16 | 9/32 | **SF51020225** | Price |
| 1/2-13 | 2-1/2 | 1/2 | 7/8 | 1-3/16 | 1/16 | 9/32 | **SF51020250** | Price |
| 1/2-13 | 2-3/4 | 1/2 | 7/8 | 1-3/16 | 1/16 | 9/32 | **SF51020275** | Price |
| 1/2-13 | 3 | 1/2 | 7/8 | 1-3/16 | 1/16 | 9/32 | **SF51020300** | Price |
| 1/2-13 | 3-1/2 | 1/2 | 7/8 | 1-3/16 | 1/16 | 9/32 | **SF51020350** | Price |
| 1/2-13 | 4 | 1/2 | 7/8 | 1-3/16 | 1/16 | 9/32 | **SF51020400** | Price |
| 1/2-13 | 4-1/2 | 1/2 | 7/8 | 1-3/16 | 1/16 | 9/32 | **SF51020450** | Price |
| 1/2-13 | 5 | 1/2 | 7/8 | 1-3/16 | 1/16 | 9/32 | **SF51020500** | Price |
| 1/2-13 | 6 | 1/2 | 7/8 | 1-3/16 | 1/16 | 9/32 | **SF51020600** | Price |
| 1/2-13 | 7 | 1/2 | 7/8 | 1-3/16 | 1/16 | 9/32 | **SF51020700** | Price |
| 1/2-13 | 8 | 1/2 | 7/8 | 1-3/16 | 1/16 | 9/32 | **SF51020800** | Price |
| 5/8-11 | 2 | 5/8 | 1-1/8 | 1-5/16 | 11/32 | 11/32 | **SF51030200** | Price |
| 5/8-11 | 2-1/4 | 5/8 | 1-1/8 | 1-5/16 | 11/32 | 11/32 | **SF51030225** | Price |
| 5/8-11 | 2-1/2 | 5/8 | 1-1/8 | 1-5/16 | 11/32 | 11/32 | **SF51030250** | Price |
| 5/8-11 | 3 | 5/8 | 1-1/8 | 1-5/16 | 11/32 | 11/32 | **SF51030300** | Price |
| 5/8-11 | 3-1/2 | 5/8 | 1-1/8 | 1-5/16 | 11/32 | 11/32 | **SF51030350** | Price |
| 5/8-11 | 4 | 5/8 | 1-1/8 | 1-5/16 | 11/32 | 11/32 | **SF51030400** | Price |
| 5/8-11 | 4-1/2 | 5/8 | 1-1/8 | 1-5/16 | 11/32 | 11/32 | **SF51030450** | Price |
| 5/8-11 | 5 | 5/8 | 1-1/8 | 1-5/16 | 11/32 | 11/32 | **SF51030500** | Price |
| 5/8-11 | 6 | 5/8 | 1-1/8 | 1-5/16 | 11/32 | 11/32 | **SF51030600** | Price |
| 5/8-11 | 7 | 5/8 | 1-1/8 | 1-5/16 | 11/32 | 11/32 | **SF51030700** | Price |
| 5/8-11 | 8 | 5/8 | 1-1/8 | 1-5/16 | 11/32 | 11/32 | **SF51030800** | Price |
| 5/8-11 | 9 | 5/8 | 1-1/8 | 1-5/16 | 11/32 | 11/32 | **SF51030900** | Price |
| 5/8-11 | 10 | 5/8 | 1-1/8 | 1-5/16 | 11/32 | 11/32 | **SF51031000** | Price |
| 5/8-11 | 12 | 5/8 | 1-1/8 | 1-5/16 | 11/32 | 11/32 | **SF51031200** | Price |
| 3/4-10 | 2 | 3/4 | 1-1/4 | 1-1/2 | 13/32 | 7/16 | **SF51040200** | Price |
| 3/4-10 | 2-1/2 | 3/4 | 1-1/4 | 1-1/2 | 13/32 | 7/16 | **SF51040250** | Price |
| 3/4-10 | 3 | 3/4 | 1-1/4 | 1-1/2 | 13/32 | 7/16 | **SF51040300** | Price |
| 3/4-10 | 3 | 7/8 | 1-1/2 | 1-3/4 | 3/8 | 9/16 | **SF51050300** | Price |
| 3/4-10 | 3-1/2 | 3/4 | 1-1/4 | 1-1/2 | 13/32 | 7/16 | **SF51040350** | Price |

| Thread Size-A | Length Under Head (in.) | T-Slot Width-B (in.) | C (in.) | D (in.) | G (in.) | H (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 3/4-10 | 4 | 3/4 | 1-1/4 | 1-1/2 | 13/32 | 7/16 | **SF51040400** | Price |
| 3/4-10 | 4 | 7/8 | 1-1/2 | 1-3/4 | 3/8 | 9/16 | **SF51050400** | Price |
| 3/4-10 | 4-1/2 | 3/4 | 1-1/4 | 1-1/2 | 13/32 | 7/16 | **SF51040450** | Price |
| 3/4-10 | 4-1/2 | 7/8 | 1-1/2 | 1-3/4 | 3/8 | 9/16 | **SF51050450** | Price |
| 3/4-10 | 5 | 3/4 | 1-1/4 | 1-1/2 | 13/32 | 7/16 | **SF51040500** | Price |
| 3/4-10 | 5 | 7/8 | 1-1/2 | 1-3/4 | 3/8 | 9/16 | **SF51050500** | Price |
| 3/4-10 | 6 | 3/4 | 1-1/4 | 1-1/2 | 13/32 | 7/16 | **SF51040600** | Price |
| 3/4-10 | 6 | 7/8 | 1-1/2 | 1-3/4 | 3/8 | 9/16 | **SF51050600** | Price |
| 3/4-10 | 7 | 3/4 | 1-1/4 | 1-1/2 | 13/32 | 7/16 | **SF51040700** | Price |
| 3/4-10 | 7 | 7/8 | 1-1/2 | 1-3/4 | 3/8 | 9/16 | **SF51050700** | Price |
| 3/4-10 | 8 | 3/4 | 1-1/4 | 1-1/2 | 13/32 | 7/16 | **SF51040800** | Price |
| 3/4-10 | 8 | 7/8 | 1-1/2 | 1-3/4 | 3/8 | 9/16 | **SF51050800** | Price |
| 3/4-10 | 9 | 3/4 | 1-1/4 | 1-1/2 | 13/32 | 7/16 | **SF51040900** | Price |
| 3/4-10 | 10 | 3/4 | 1-1/4 | 1-1/2 | 13/32 | 7/16 | **SF51041000** | Price |
| 3/4-10 | 10 | 7/8 | 1-1/2 | 1-3/4 | 3/8 | 9/16 | **SF51051000** | Price |
| 3/4-10 | 12 | 3/4 | 1-1/4 | 1-1/2 | 13/32 | 7/16 | **SF51041200** | Price |
| 3/4-10 | 12 | 7/8 | 1-1/2 | 1-3/4 | 3/8 | 9/16 | **SF51051200** | Price |
| 3/4-10 | 14 | 3/4 | 1-1/4 | 1-1/2 | 13/32 | 7/16 | **SF51041400** | Price |
| 7/8-9 | 3 | 7/8 | 1-1/2 | 1-3/4 | 7/16 | 9/16 | **SF51070300** | Price |
| 7/8-9 | 4 | 7/8 | 1-1/2 | 1-3/4 | 7/16 | 9/16 | **SF51070400** | Price |
| 7/8-9 | 4 | 1 | 1-3/4 | 2 | 19/32 | 5/8 | **SF51060400** | Price |
| 7/8-9 | 5 | 7/8 | 1-1/2 | 1-3/4 | 7/16 | 9/16 | **SF51070500** | Price |
| 7/8-9 | 5 | 1 | 1-3/4 | 2 | 19/32 | 5/8 | **SF51060500** | Price |
| 7/8-9 | 6 | 7/8 | 1-1/2 | 1-3/4 | 7/16 | 9/16 | **SF51070600** | Price |
| 7/8-9 | 6 | 1 | 1-3/4 | 2 | 19/32 | 5/8 | **SF51060600** | Price |
| 7/8-9 | 7 | 7/8 | 1-1/2 | 1-3/4 | 7/16 | 9/16 | **SF51070700** | Price |
| 7/8-9 | 7 | 1 | 1-3/4 | 2 | 19/32 | 5/8 | **SF51060700** | Price |
| 7/8-9 | 8 | 7/8 | 1-1/2 | 1-3/4 | 7/16 | 9/16 | **SF51070800** | Price |
| 7/8-9 | 8 | 1 | 1-3/4 | 2 | 19/32 | 5/8 | **SF51060800** | Price |
| 1-8 | 4 | 1 | 1-3/4 | 2-1/16 | 7/16 | 5/8 | **SF51080400** | Price |
| 1-8 | 5 | 1 | 1-3/4 | 2-1/16 | 7/16 | 5/8 | **SF51080500** | Price |
| 1-8 | 6 | 1 | 1-3/4 | 2-1/16 | 7/16 | 5/8 | **SF51080600** | Price |
| 1-8 | 7 | 1 | 1-3/4 | 2-1/16 | 7/16 | 5/8 | **SF51080700** | Price |
| 1-8 | 8 | 1 | 1-3/4 | 2-1/16 | 7/16 | 5/8 | **SF51080800** | Price |
| 1-8 | 9 | 1 | 1-3/4 | 2-1/16 | 7/16 | 5/8 | **SF51080900** | Price |
| 1-8 | 10 | 1 | 1-3/4 | 2-1/16 | 7/16 | 5/8 | **SF51081000** | Price |
| 1-8 | 12 | 1 | 1-3/4 | 2-1/16 | 7/16 | 5/8 | **SF51081200** | Price |
| 1-8 | 14 | 1 | 1-3/4 | 2-1/16 | 7/16 | 5/8 | **SF51081400** | Price |

## VALTRA Swing (Jiglatch) Bolts

- Designed to pivot and swing out of the way
- Perfect for loading and unloading work pieces
- Heat treated steel with black oxide finish

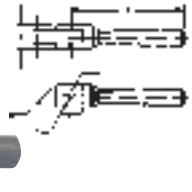




| A | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | H (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 1/4-20 | 1-1/2 | 3/4 | 1/4 | 1/2 | 5/16 | 1-3/16 | **MA62832700** | Price |
| 1/4-20 | 2-1/2 | 1-1/4 | 1/4 | 1/2 | 5/16 | 2-3/16 | **MA62832710** | Price |
| 5/16-18 | 3 | 1-3/8 | 5/16 | 5/8 | 3/8 | 2-5/8 | **MA62832730** | Price |
| 3/8-16 | 2-1/2 | 1-3/8 | 3/8 | 3/4 | 1/2 | 2 | **MA62832740** | Price |
| 3/8-16 | 3-1/2 | 2 | 3/8 | 3/4 | 1/2 | 3 | **MA62832750** | Price |
| 1/2-13 | 3-1/8 | 1-3/4 | 1/2 | 1 | 5/8 | 2-1/2 | **MA62832760** | Price |
| 1/2-13 | 4-1/8 | 2-1/3 | 1/2 | 1 | 5/8 | 3-1/2 | **MA62832770** | Price |
| 5/8-11 | 3-1/2 | 1-3/4 | 5/8 | 1-1/4 | 3/4 | 2-3/4 | **MA62832780** | Price |
| 5/8-11 | 4-3/4 | 2-1/2 | 5/8 | 1-1/4 | 3/4 | 4 | **MA62832790** | Price |

## VALTRA Double Cams

- Ideal for fast change tooling applications that require moderate clamping force
- Heat treated steel with black oxide finish



| A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 9/16 | 1/16 | 2-1/2 | 1/4 | 3/16 | 9/16 | **MA62849005** | Price |
| 11/16 | 1/16 | 3-1/2 | 5/16 | 1/4 | 5/8 | **MA62849010** | Price |
| 15/16 | 7/64 | 5 | 1/2 | 3/8 | 1-1/8 | **MA62849015** | Price |
| 1-3/16 | 9/64 | 5-3/8 | 5/8 | 5/8 | 1-1/4 | **MA62849020** | Price |

## VALTRA Plain Tooling Eyebolts

- Designed to be used to build control linkages and shaft connections
- Can be used as a stationary hinge point
- Heat treated alloy steel (125,000 psi) in black oxide finish

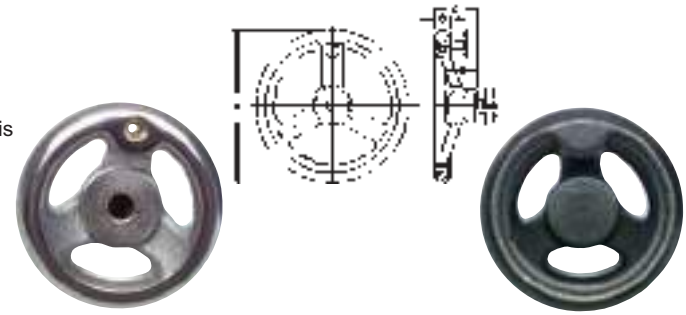




| A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 1/4-20 | 3 | 2-5/8 | 3/16 | 1/2 | 1/4 | **MA62832403** | Price |
| 5/16-18 | 3 | 1-1/2 | 1/4 | 5/8 | 5/16 | **MA62832404** | Price |
| 5/16-18 | 3 | 1-1/2 | 5/16 | 5/8 | 5/16 | **MA62832408** | Price |
| 5/16-18 | 4 | 2 | 1/4 | 5/8 | 5/16 | **MA62832406** | Price |
| 5/16-18 | 4 | 2 | 5/16 | 5/8 | 5/16 | **MA62832410** | Price |
| 5/16-18 | 4 | 3-1/2 | 5/16 | 5/8 | 5/16 | **MA62832411** | Price |
| 3/8-16 | 3 | 1-1/2 | 5/16 | 3/4 | 3/8 | **MA62832412** | Price |
| 3/8-16 | 3 | 1-1/2 | 3/8 | 3/4 | 3/8 | **MA62832416** | Price |
| 3/8-16 | 3-3/4 | 1-1/2 | 3/8 | 1 | 1/2 | **MA62832420** | Price |
| 3/8-16 | 5 | 4-1/2 | 3/8 | 3/4 | 3/8 | **MA62832419** | Price |
| 1/2-13 | 3-3/4 | 1-1/2 | 3/8 | 1 | 1/2 | **MA62832424** | Price |
| 1/2-13 | 5 | 2 | 3/8 | 1 | 1/2 | **MA62832426** | Price |
| 1/2-13 | 5 | 4-1/2 | 3/8 | 1 | 1/2 | **MA62832427** | Price |
| 5/8-11 | 4-1/2 | 2 | 5/8 | 1-1/4 | 5/8 | **MA62832428** | Price |
| 5/8-11 | 6 | 2-1/2 | 5/8 | 1-1/4 | 5/8 | **MA62832430** | Price |
| 5/8-11 | 6 | 5-1/2 | 5/8 | 1-1/4 | 5/8 | **MA62832431** | Price |
| 3/4-10 | 4-1/2 | 2 | 3/4 | 1-1/2 | 3/4 | **MA62832432** | Price |
| 3/4-10 | 6 | 2-1/2 | 3/4 | 1-1/2 | 3/4 | **MA62832434** | Price |
| 3/4-10 | 6 | 5-1/4 | 3/4 | 1-1/2 | 3/4 | **MA62832435** | Price |

## VALTRA Handwheels

- Handsome, and yet surprisingly affordable handwheel
- Round machined rim, and two different finishes to fit your budget
- The cast iron handwheel is tumbled clean and smooth, without holes
- The polished handwheel is chrome plated and ready to use, and the wheel is tapped and ready for the handle
- **Machine handles sold separately**



| | | | | | | | With Hole | | Without Hole | |
|---|---|---|---|---|---|---|---|---|---|---|
| A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F | G (in.) | Order No. | Price | Order No. | Price |
| 3.00 | 3/8 | 1 | 1 | 1 | 10-24 | 1/2 | **MA61A233** | Price | **MA61A133** | Price |
| 4.00 | 3/8 | 1-1/2 | 1-1/8 | 1-1/16 | 10-24 | 9/16 | **MA61A234** | Price | **MA61A134** | Price |
| 5.00 | 3/8 | 1-5/8 | 1-1/4 | 1-3/16 | 1/4-20 | 19/32 | **MA61A235** | Price | **MA61A135** | Price |
| 6.00 | 1/2 | 1-13/16 | 1-3/8 | 1-1/4 | 5/16-18 | 21/32 | **MA61A236** | Price | **MA61A136** | Price |
| 8.00 | 5/8 | 2-3/16 | 1-21/32 | 1-1/2 | 3/8-16 | 7/8 | **MA61A238** | Price | **MA61A138** | Price |
| 10.00 | 5/8 | 2-3/8 | 1-7/8 | 1-21/32 | 3/8-16 | 15/16 | **MA61A2310** | Price | **MA61A1310** | Price |
| 12.00 | 3/4 | 2-1/2 | 2-5/32 | 1-25/32 | 1/2-13 | 1 | **MA61A2312** | Price | **MA61A1312** | Price |

## VALTRA Machine Handles

- Both fixed and revolving steel handles are chrome plated
- The lengths are well proportioned, and the grips are exceptionally attractive and comfortable



| F (in.) | B (in.) | C (in.) | L (in.) | K (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 1/2-13 | 1-1/4 | 13/16 | 4 | 5/8 | **MA61B650** | Price |

## Handle Chart for Handwheels

| Fixed Handle | | | Revolving Handle | | |
|---|---|---|---|---|---|
| Handwheel Part No.† | | Handle Order No. | Handwheel Part No.† | | Handle Order No. |
| A133 | A233 | **MA61B519** | 5.00 | A233 | **MA61B619** |
| 10.20 | A234 | **MA61B519** | 5.00 | A234 | **MA61B619** |
| 10.20 | A235 | **MA61B525** | 5.00 | A235 | **MA61B625** |
| 10.20 | A236 | **MA61B531** | 5.65 | A236 | **MA61B631** |
| 12.00 | A238 | **MA61B537** | 7.90 | A238 | **MA61B637** |
| 16.60 | A2310 | **MA61B537** | 7.90 | A2310 | **MA61B637** |
| 16.60 | A2312 | **MA61B550** | 10.70 | A2312 | **MA61B650** |

**†See above Handwheel chart**

## MORTON Adjustable Clamping Levers with Stud

- Black thermoplastic handle with metal insert
- Steel parts give increased stability and rigidity
- External steel stud with black oxide finish

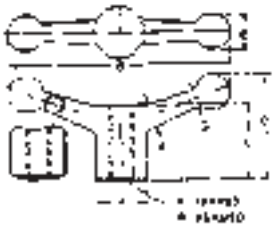


| | | | | | Die-Cast Handle | | Plastic Handle | |
|---|---|---|---|---|---|---|---|---|
| Thread X | Thread Length | D (in.) | E (in.) | F (in.) | Order No. | Price | Order No. | Price |
| 10-24 | .63 | 1.65 | 1.30 | .39 | **SG80MH301** | Price | **SG80AH301** | Price |
| 10-32 | .63 | 1.65 | 1.30 | .39 | **SG80MH302** | Price | **SG80AH302** | Price |
| 1/4-20 | .78 | 1.65 | 1.30 | .39 | **SG80MH303** | Price | **SG80AH303** | Price |
| 5/16-18 | .78 | 2.56 | 1.77 | .53 | **SG80MH3037** | Price | **-** | - |
| 5/16-18 | 1.57 | 2.56 | 1.77 | .53 | **SG80MH304** | Price | **SG80AH304** | Price |
| 3/8-16 | 1.57 | 2.56 | 1.77 | .53 | **SG80MH305** | Price | **SG80AH305** | Price |
| 3/8-16 | 1.57 | 3.07 | 2.12 | .63 | **SG80MH306** | Price | **SG80AH306** | Price |
| 3/8-16 | 1.97 | 3.07 | 2.12 | .63 | **SG80MH307** | Price | **SG80AH307** | Price |
| 1/2-13 | 1.25 | 3.62 | 2.52 | .75 | **SG80MH308** | Price | **SG80AH308** | Price |
| 1/2-13 | 1.97 | 3.62 | 2.52 | .75 | **SG80MH309** | Price | **SG80AH309** | Price |
| 1/2-13 | 2.48 | 3.62 | 2.52 | .75 | **SG80MH310** | Price | **SG80AH310** | Price |

## MORTON Cast Iron Ball Handles

- Cast iron
- Zinc-plated
- Blank casting, reamed & tapered





| A (in.) | B (in.) | C (in.) | D (in.) | Ream | Tapped | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 1-1/8 | 4-3/4 | 1-3/8 | 2-1/4 | - | - | **SG80BH100** | Price |
| 1-1/8 | 4-3/4 | 1-3/8 | 2-1/4 | - | 1/2-13 | **SG80BH102** | Price |
| 1-1/8 | 4-3/4 | 1-3/8 | 2-1/4 | .499 | - | **SG80BH101** | Price |
| 1-3/8 | 6 | 1-5/8 | 2-1/2 | - | - | **SG80BH200** | Price |
| 1-3/8 | 6 | 1-5/8 | 2-1/2 | - | 5/8-11 | **SG80BH205** | Price |
| 1-3/8 | 6 | 1-5/8 | 2-1/2 | .624 | - | **SG80BH204** | Price |
| 1-5/8 | 8 | 1-3/4 | 2-15/16 | - | - | **SG80BH300** | Price |
| 1-5/8 | 8 | 1-3/4 | 2-15/16 | - | 3/4-10 | **SG80BH308** | Price |
| 1-5/8 | 8 | 1-3/4 | 2-15/16 | .749 | - | **SG80BH307** | Price |

## Knurled Knobs




- Steel knob
- Black oxide finish

| Tapped Hole | A (in.) | B (in.) | C (in.) | D (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 10-24 | 3/4 | 5/8 | 1/2 | 1/4 | **SG80KK30** | Price |
| 1/4-20 | 3/4 | 5/8 | 1/2 | 1/4 | **SG80KK31** | Price |
| 1/4-20 | 1.00 | 3/4 | 5/8 | 1/4 | **SG80KK32** | Price |
| 5/16-18 | 1.00 | 3/4 | 5/8 | 1/4 | **SG80KK33** | Price |
| 5/16-18 | 1-1/2 | 1 | 3/4 | 5/16 | **SG80KK34** | Price |
| 3/8-16 | 1-1/2 | 1 | 3/4 | 5/16 | **SG80KK35** | Price |
| 3/8-16 | 2.00 | 1-1/8 | 1 | 3/8 | **SG80KK36** | Price |
| 1/2-13 | 2.00 | 1-1/8 | 1 | 3/8 | **SG80KK37** | Price |
| 1/2-13 | 2-1/2 | 1-1/2 | 1-1/2 | 9/16 | **SG80KK38** | Price |
| 5/8-11 | 2-1/2 | 1-1/2 | 1-1/2 | 9/16 | **SG80KK39** | Price |

## Knurled Knobs with Stud




- Steel knob & screw
- Black oxide finish

| Stud Length | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 10-24 | 3/4 | 5/8 | 1/2 | 1/4 | 1/2 | **SG80KKS50** | Price |
| 10-24 | 3/4 | 5/8 | 1/2 | 1/4 | 1 | **SG80KKS51** | Price |
| 1/4-20 | 3/4 | 5/8 | 1/2 | 1/4 | 3/4 | **SG80KKS52** | Price |
| 1/4-20 | 3/4 | 5/8 | 1/2 | 1/4 | 1-1/4 | **SG80KKS53** | Price |
| 1/4-20 | 1.00 | 3/4 | 5/8 | 1/4 | 1-3/4 | **SG80KKS54** | Price |
| 5/16-18 | 1.00 | 3/4 | 5/8 | 1/4 | 1-3/4 | **SG80KKS55** | Price |
| 5/16-18 | 1.00 | 3/4 | 5/8 | 1/4 | 3 | **SG80KKS56** | Price |
| 5/16-18 | 1-1/2 | 1 | 3/4 | 5/16 | 1-3/4 | **SG80KKS57** | Price |
| 5/16-18 | 1-1/2 | 1 | 3/4 | 5/16 | 3 | **SG80KKS58** | Price |

## Stainless Steel Adjusting Screws




- Made from 303 stainless steel
- Two-piece construction

| A | B (in.) | C (in.) | D (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 1/4-20 | 1 | 5/16 | 1.00 | **SG80KHS10SS** | Price |
| 1/4-20 | 2-1/2 | 5/16 | 1.00 | **SG80KHS1SS** | Price |
| 3/8-16 | 2 | 7/16 | 1-1/4 | **SG80KHS31SS** | Price |
| 3/8-16 | 3 | 7/16 | 1-1/4 | **SG80KHS3SS** | Price |
| 5/16-18 | 1-1/2 | 3/8 | 1-1/8 | **SG80KHS21SS** | Price |
| 5/16-18 | 2-1/4 | 3/8 | 1-1/8 | **SG80KHS22SS** | Price |
| 5/16-18 | 2-3/4 | 3/8 | 1-1/8 | **SG80KHS24SS** | Price |

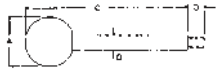
## Hand Knob Toggle Screws



- Material: Stem, Stressproof Pad, 4140 Head, Cast Iron
- Finish: Stem, Black Oxide Pad, Zinc Plate Head, Zinc Plate
- Thread: 2A-UNC
- Pad: Angular movement either side of center
- Available in Fixture Pro TM Design Software

| Thread Size (in.) | Thread Length (in.) | Toggle Width (in.) | Toggle Height (in.) | Knob Height (in.) | Knob Width (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 3/8-16 | 1-21/32 | 11/16 | 3/8 | 1-1/8 | 2 | **SG6636301** | Price |
| 3/8-16 | 2-13/32 | 11/16 | 3/8 | 1-1/8 | 2 | **SG6636302** | Price |
| 3/8-16 | 3-9/32 | 11/16 | 3/8 | 1-1/8 | 2 | **SG6636303** | Price |
| 1/2-13 | 1-21/32 | 13/16 | 15/32 | 1-1/2 | 2-1/2 | **SG6636304** | Price |
| 1/2-13 | 2-9/32 | 13/16 | 15/32 | 1-1/2 | 2-1/2 | **SG6636305** | Price |
| 1/2-13 | 2-29/32 | 13/16 | 15/32 | 1-1/2 | 2-1/2 | **SG6636306** | Price |
| 1/2-13 | 3-17/32 | 13/16 | 15/32 | 1-1/2 | 2-1/2 | **SG6636307** | Price |
| 5/8-11 | 2-17/32 | 15/16 | 1/2 | 2 | 3 | **SG6636308** | Price |
| 5/8-11 | 3-9/32 | 15/16 | 1/2 | 2 | 3 | **SG6636309** | Price |
| 3/4-10 | 4-11/32 | 1-1/8 | 19/32 | 2 | 3 | **SG6636310** | Price |

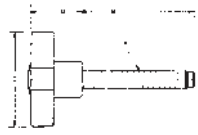
## Plastic Ball Knob with Shaft




- Plastic ball
- Steel shaft with black oxide finish

| Thread | A (in.) | B (in.) | C (in.) | D (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 10-32 | 3/4 | 1/4 | 3 | 3/8 | **SG80GL10** | Price |
| 1/4-20 | 3/4 | 1/4 | 3-1/2 | 3/8 | **SG80GL20** | Price |
| 1/4-20 | 1 | 3/8 | 6 | 1/2 | **SG80GL30** | Price |
| 5/16-18 | 1 | 3/8 | 6 | 1/2 | **SG80GL40** | Price |
| 3/8-16 | 1-3/8 | 1/2 | 8 | 1/2 | **SG80GL50** | Price |
| 1/2-13 | 1-7/8 | 5/8 | 10 | 5/8 | **SG80GL60** | Price |

## Aluminum Clamping Knob Assemblies

- Aluminum hand knob
- Carbon steel screw with black oxide finish

| Thread A | B (in.) | C (in.) | D (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 1/4-20 | 1-3/4 | 1-1/2 | 7/8 | **SG80HKS2517A** | Price |
| 1/4-20 | 3 | 1-1/2 | 7/8 | **SG80HKS2530A** | Price |
| 5/16-18 | 1-3/4 | 2.00 | 7/8 | **SG80HKS3117A** | Price |
| 5/16-18 | 3 | 2.00 | 7/8 | **SG80HKS3130A** | Price |
| 3/8-16 | 1-3/4 | 2.00 | 7/8 | **SG80HKS3717A** | Price |
| 3/8-16 | 3 | 2.00 | 7/8 | **SG80HKS3730A** | Price |
| 1/2-13 | 1-3/4 | 2-1/2 | 1-1/2 | **SG80HKS5017A** | Price |
| 1/2-13 | 3 | 2-1/2 | 1-1/2 | **SG80HKS5030A** | Price |
| 5/8-11 | 1-3/4 | 2-1/2 | 1-1/2 | **SG80HKS6217A** | Price |
| 5/8-11 | 3 | 2-1/2 | 1-1/2 | **SG80HKS6230A** | Price |

## Socket Toggle Screws



- Material: 4140
- Finish: Black Oxide
- Heat Treat: 38-42 Rc
- Screws may be inserted without removing pads
- Available in Fixture Pro TM Design Software

| Thread Size (in.) | OAL (in.) | Toggle Length (in.) | Outside Dia. (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 1/2-13 | 1 | 7/16 | .400 | **SG6633307** | Price |
| 1/2-13 | 2 | 7/16 | .400 | **SG6633308** | Price |
| 1/4-20 | 1 | 15/64 | .185 | **SG6633302** | Price |
| 1/4-20 | 1/2 | 15/64 | .185 | **SG6633301** | Price |
| 3/8-16 | 1 | 11/32 | .294 | **SG6633305** | Price |
| 3/8-16 | 2 | 11/32 | .294 | **SG6633306** | Price |
| 5/16-18 | 1-1/2 | 9/32 | .240 | **SG6633304** | Price |
| 5/16-18 | 3/4 | 9/32 | .240 | **SG6633303** | Price |
| 5/8-11 | 2 | 17/32 | .507 | **SG6633310** | Price |

## Toggle Thumb Screws



- Material: Stem and Head 1215, Pad 4140
- Finish: Black Oxide
- Available in Fixture Pro TM Design Software

| Thread Size (in.) | OAL (in.) | Thumb Screw Size (in.) | Thum Screw Width (in.) | Toggle Length (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 10-24 | 1 | 3/4 | 5/16 | 3/16 | **SG6633501** | Price |
| 10-24 | 1-1/2 | 3/4 | 5/16 | 3/16 | **SG6633502** | Price |
| 1/4-20 | 1-1/2 | 1 | 5/16 | 15/64 | **SG6633503** | Price |
| 1/4-20 | 2 | 1 | 5/16 | 15/64 | **SG6633504** | Price |
| 5/16-18 | 1-1/2 | 1-1/8 | 3/8 | 9/32 | **SG6633505** | Price |
| 5/16-18 | 2 | 1-1/8 | 3/8 | 9/32 | **SG6633506** | Price |
| 5/16-18 | 2-1/2 | 1-1/8 | 3/8 | 9/32 | **SG6633507** | Price |
| 3/8-16 | 1-1/2 | 1-1/4 | 7/16 | 11/32 | **SG6633508** | Price |
| 3/8-16 | 2 | 1-1/4 | 7/16 | 11/32 | **SG6633509** | Price |
| 3/8-16 | 2-1/2 | 1-1/4 | 7/16 | 11/32 | **SG6633510** | Price |
| 3/8-16 | 3 | 1-1/4 | 7/16 | 11/32 | **SG6633511** | Price |

## Pull Ring Retractable, Locking

- Designed for applications where space is limited
- Plunger can be completely withdrawn into the body and locked into a retracted position
- Chamfered plunger for easy alignment



| Initial End Force lbs | Final End Force lbs | Thread Size (in.) | Material | Nose Dia. (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 1.0 | 2.5 | 1/4-20 | 12L14 Steel Black Oxide | .155 | **SG5054401** | Price |
| 1.0 | 2.5 | 1/4-20 | 12L14 Steel Zinc Plated | .155 | **SG5054414** | Price |
| 1.0 | 2.5 | 1/4-20 | 303 SS | .155 | **SG5054405** | Price |
| 2.0 | 4.0 | 3/8-16 | 12L14 Steel Black Oxide | .233 | **SG5054402** | Price |
| 2.0 | 4.0 | 3/8-16 | 12L14 Steel Zinc Plated | .233 | **SG5054415** | Price |
| 2.0 | 4.0 | 3/8-16 | 303 SS | .233 | **SG5054406** | Price |
| 2.50 | 5.0 | 1/2-13 | 12L14 Steel Black Oxide | .312 | **SG5054403** | Price |
| 2.50 | 5.0 | 1/2-13 | 12L14 Steel Zinc Plated | .312 | **SG5054416** | Price |
| 2.50 | 5.0 | 1/2-13 | 303 SS | .312 | **SG5054407** | Price |

## L-Handle Retractable, Locking, Steel Zinc Chromate

- Plunger can be completely withdrawn into the body and locked into a retracted position
- Chamfered plunger for easy alignment
- Built in drive wrench for rapid installation and alignment



| Initial End Force lbs | Final End Force lbs | Thread Size (in.) | Thread Length (in.) | End of nose to thread (in.) | Nose Dia. (in.) | Material | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| .50 | 2.5 | 1/4-20 | .800 | .380 | .16 | 12L14 Steel | **SG5054305** | Price |
| .75 | 3.75 | 3/8-16 | 1.18 | .560 | .23 | 12L14 Steel | **SG5054306** | Price |
| 1.0 | 5.0 | 1/2-13 | 1.10 | .750 | .31 | 12L14 Steel | **SG5054307** | Price |
| 1.0 | 5.0 | 5/8-11 | 1.82 | 1.00 | .38 | 12L14 Steel | **SG5054308** | Price |

## L-Handle Retractable, Non-Locking, Steel Zinc Chromate without Locking Element

- Fully retractable plunger
- Chamfered plunger for easy alignment
- Easy withdrawing and re-engagement
- Zinc plated clear chromate finish



| Initial End Force lbs | Final End Force lbs | Thread Size (in.) | Thread Length (in.) | End of Nose to Thread (in.) | Nose Dia. (in.) | Material | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| .50 | 2.5 | 1/4-20 | .800 | .380 | .16 | 12L14 Steel | **SG5054310** | Price |
| .75 | 3.75 | 3/8-16 | 1.18 | .560 | .23 | 12L14 Steel | **SG5054311** | Price |
| 1.0 | 5.0 | 1/2-13 | 1.10 | .750 | .31 | 12L14 Steel | **SG5054312** | Price |
| 1.0 | 5.0 | 5/8-11 | 1.82 | 1.00 | .38 | 12L14 Steel | **SG5054313** | Price |

## Pull Handles - Plastic Bridge Top Mount

- Top mount bridge handle with smooth radius edges
- Standard on most modular framing systems and enclosures
- Material: PA6, matte black color
- Socket head screws (not included)



| Reamed Hole Size | Handle Length (in.) | Handle Height (in.) | Order No. | Price |
|---|---|---|---|---|
| 1/4 | 4.40 | 1.42 | **SG5071160** | Price |
| 5/16 | 5.47 | 1.61 | **SG5071161** | Price |
| 5/16 | 6.14 | 1.77 | **SG5071162** | Price |

## 2 Spoked Aluminum Hand Wheels with Folding Handle

- Material: High quality fine grain black powder coated gravity cast aluminum
- Available in a variety of diameters and bore sizes
- Custom bores, keyways and set screws available
- Polished versions available by special order (Add suffix "P" when ordering)
- Supplied with phenolic grip safety folding handle



| Outside Dia. (in.) | Hole Dia. (in.) | Overall Height (in.) | Handle Length (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 4.00 | 3/8 | 1.77 | 1.97 | .80 lbs | **SG5070931** | Price |
| 4.00 | 1/2 | 1.77 | 1.97 | .80 lbs | **SG5070930** | Price |
| 5.00 | 3/8 | 1.93 | 2.56 | 1.0 lbs | **SG5070933** | Price |
| 5.00 | 1/2 | 1.93 | 2.56 | 1.0 lbs | **SG5070932** | Price |
| 6.00 | 1/2 | 2.05 | 2.56 | 1.4 lbs | **SG5070935** | Price |
| 6.00 | 5/8 | 2.05 | 2.56 | 1.4 lbs | **SG5070934** | Price |
| 8.00 | 1/2 | 2.74 | 3.15 | 2.7 lbs | **SG5070937** | Price |
| 8.00 | 5/8 | 2.74 | 3.15 | 2.7 lbs | **SG5070936** | Price |
| 10.00 | 5/8 | 2.8 | 3.15 | 3.8 lbs | **SG5070939** | Price |
| 10.00 | 3/4 | 2.8 | 3.15 | 3.8 lbs | **SG5070938** | Price |

## 2 Spoked Aluminum Hand Wheels Without Handle

- Material: High quality fine grain black powder coated gravity cast aluminum
- Available in a variety of diameters and bore sizes
- Custom bores, keyways and set screws available
- Polished versions available by special order (Add suffix "P" when ordering)



| Outside Dia. (in.) | Hole Dia. (in.) | Overall Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 4.00 | 1/2 | 1.77 | .60 lbs | **SG5070921** | Price |
| 4.00 | 3/8 | 1.77 | .60 lbs | **SG5070920** | Price |
| 5.00 | 1/2 | 1.93 | .80 lbs | **SG5070923** | Price |
| 5.00 | 3/8 | 1.93 | .80 lbs | **SG5070922** | Price |
| 6.00 | 1/2 | 2.05 | 1.2 lbs | **SG5070924** | Price |
| 6.00 | 5/8 | 2.05 | 1.2 lbs | **SG5070925** | Price |
| 8.00 | 1/2 | 2.74 | 2.5 lbs | **SG5070926** | Price |
| 8.00 | 5/8 | 2.74 | 2.5 lbs | **SG5070927** | Price |
| 10.00 | 3/4 | 2.8 | 3.6 lbs | **SG5070929** | Price |
| 10.00 | 5/8 | 2.8 | 3.6 lbs | **SG5070928** | Price |

## 3 Spoked Cast Iron Dished Style Hand Wheels with Revolving Handle

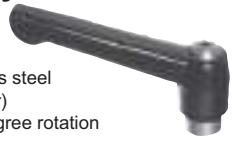
- Oversized hub can accommodate all types of bores, keyways and set screws
- Cast Iron
- Nickel plated with polished rim finish
- Handle chrome plated steel revolving with wrench flats



| Outside Dia. (in.) | Hole Dia. (in.) | Overall Height (in.) | Handle Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 4.00 | 3/8 | 4.1 | 2.4 | 1.4 lbs | **SG5070980** | Price |
| 6.00 | 1/2 | 5.23 | 2.95 | 3.6 lbs | **SG5070981** | Price |
| 8.00 | 5/8 | 4.53 | 2.95 | 5.9 lbs | **SG5070982** | Price |
| 10.00 | 3/4 | 5.43 | 2.95 | 8.6 lbs | **SG5070983** | Price |
| 12.00 | 3/4 | 5.78 | 2.95 | 11.7 lbs | **SG5070984** | Price |

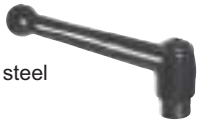
## Zinc Classic Tapped Style Steel Handles

- Handle: Die cast zinc
- Insert, screw & spring: Stainless: Grade 303 stainless steel
- Grade 304 and 316 stainless available (special order)
- Lift & Rotate: handle is adjustable throught a 360 degree rotation
- Chrome plated version available from stock



| Thread/Stud Size (in.) | Thread Depth (in.) | Handle Length (in.) | Handle Height (in.) | Overall Height (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 1/4-20 | .24 | 2.56 | 1.77 | 1.77 | **SG5070716** | Price |
| 5/16-18 | .24 | 2.56 | 1.77 | 1.77 | **SG5070717** | Price |
| 5/16-18 | .29 | 3.07 | 2.12 | 2.12 | **SG5070720** | Price |
| 3/8-16 | .29 | 3.07 | 2.12 | 2.12 | **SG5070721** | Price |
| 3/8-16 | .35 | 3.62 | 2.52 | 2.52 | **SG5070724** | Price |
| 1/2-13 | .35 | 3.62 | 2.52 | 2.52 | **SG5070725** | Price |
| 1/2-13 | .47 | 4.25 | 2.95 | 2.95 | **SG5070728** | Price |
| 5/8-11 | .47 | 4.25 | 2.95 | 2.95 | **SG5070729** | Price |

## Zinc Ball Tapped Style Steel Handles



- Zinc die cast zinc ball style handle
- Durable black powder coated finish
- Insert, screw and spring black zinc coated carbon steel
- RoHs compliant
- Handle is adjustable throughout a 360° rotation

| Thread/Stud Size (in.) | Thread Depth (in.) | Handle Length (in.) | Handle Height (in.) | Overall Height (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 1/4-20 | .25 | 2.56 | 1.81 | 1.14 | **SG5070586** | Price |
| 5/16-18 | .25 | 2.56 | 1.81 | 1.14 | **SG5070587** | Price |
| 5/16-18 | .39 | 3.15 | 2.28 | 1.47 | **SG5070591** | Price |
| 3/8-16 | .39 | 3.15 | 2.28 | 1.47 | **SG5070592** | Price |
| 3/8-16 | .47 | 3.74 | 3.11 | 2.00 | **SG5070596** | Price |
| 1/2-13 | .47 | 3.74 | 3.11 | 2.00 | **SG5070597** | Price |
| 1/2-13 | .47 | 4.33 | 3.11 | 2.00 | **SG5070601** | Price |
| 5/8-11 | .47 | 4.33 | 3.11 | 2.00 | **SG5070602** | Price |

## Plastic Classic Tapped Style Steel Handles



- High quality Nylon 6 handle reinforced with 30% glass fiber
- Molded in zinc metal teeth makes handles extremely durable
- RoHs compliant
- Insert, screw and spring black zinc coated carbon steel
- Temperature rating -40°F to +265°F
- Handle is adjustable throughout a 360° rotation
- Unique design reduces cavity area around the retention screw for less debris accumulation

| Thread/Stud Size (in.) | Thread Depth (in.) | Overall Height (in.) | Handle Length (in.) | Handle Height (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 1/4-20 | .26 | 1.77 | 2.48 | 1.77 | **SG5070862** | Price |
| 5/16-18 | .26 | 1.77 | 2.48 | 1.77 | **SG5070863** | Price |
| 5/16-18 | .31 | 2.12 | 3.07 | 2.12 | **SG5070866** | Price |
| 3/8-16 | .31 | 2.12 | 3.07 | 2.12 | **SG5070867** | Price |
| 3/8-16 | .43 | 2.56 | 3.62 | 2.56 | **SG5070870** | Price |
| 1/2-13 | .43 | 2.56 | 3.62 | 2.56 | **SG5070871** | Price |

## Zinc Classic Stud Style Steel Handles



- Zinc die cast classic style handle with durable black powder coated finish
- RoHS compliant
- Die cast zinc handle
- Insert, screw & spring blank zinc coated carbon steel
- Handle is adjustable throughout a 360° rotation

| Thread/Stud Size (in.) | Thread Length (in.) | Handle Length (in.) | Handle Height (in.) | Overall Height (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 5/16-18 | .59 | 2.48 | 1.77 | 2.36 | **SG5070640** | Price |
| 5/16-18 | .78 | 2.48 | 1.77 | 2.55 | **SG5070641** | Price |
| 5/16-18 | 1.18 | 2.48 | 1.77 | 2.95 | **SG5070642** | Price |
| 5/16-18 | 1.57 | 2.48 | 1.77 | 3.34 | **SG5070643** | Price |
| 5/16-18 | 2.36 | 2.48 | 1.77 | 4.13 | **SG5070646** | Price |
| 3/8-16 | .59 | 2.48 | 1.77 | 2.36 | **SG5070647** | Price |
| 3/8-16 | .59 | 3.07 | 2.17 | 2.76 | **SG5070658** | Price |
| 3/8-16 | .59 | 3.62 | 2.56 | 3.15 | **SG5070676** | Price |
| 3/8-16 | .78 | 2.48 | 1.77 | 2.55 | **SG5070648** | Price |
| 3/8-16 | .78 | 3.07 | 2.17 | 2.95 | **SG5070659** | Price |
| 3/8-16 | .78 | 3.62 | 2.56 | 3.34 | **SG5070677** | Price |
| 3/8-16 | 1.18 | 2.48 | 1.77 | 2.95 | **SG5070649** | Price |
| 3/8-16 | 1.18 | 3.07 | 2.17 | 3.35 | **SG5070660** | Price |
| 3/8-16 | 1.18 | 3.62 | 2.56 | 3.74 | **SG5070678** | Price |
| 3/8-16 | 1.57 | 2.48 | 1.77 | 3.34 | **SG5070650** | Price |
| 3/8-16 | 1.57 | 3.07 | 2.17 | 3.74 | **SG5070661** | Price |
| 3/8-16 | 1.57 | 3.62 | 2.56 | 4.13 | **SG5070679** | Price |
| 3/8-16 | 2.36 | 2.48 | 2.28 | 4.64 | **SG5070653** | Price |
| 3/8-16 | 2.36 | 3.07 | 2.17 | 4.53 | **SG5070664** | Price |
| 3/8-16 | 2.36 | 3.62 | 2.56 | 4.92 | **SG5070682** | Price |
| 1/2-13 | .59 | 3.62 | 2.56 | 3.15 | **SG5070687** | Price |
| 1/2-13 | .78 | 3.07 | 2.17 | 2.95 | **SG5070670** | Price |
| 1/2-13 | .78 | 3.62 | 2.56 | 3.34 | **SG5070688** | Price |
| 1/2-13 | .98 | 4.25 | 3.11 | 4.09 | **SG5070699** | Price |
| 1/2-13 | 1.18 | 3.62 | 2.56 | 3.74 | **SG5070689** | Price |
| 1/2-13 | 1.57 | 3.07 | 2.17 | 3.74 | **SG5070673** | Price |
| 1/2-13 | 1.57 | 3.62 | 2.56 | 4.13 | **SG5070691** | Price |
| 1/2-13 | 1.57 | 4.25 | 3.11 | 4.68 | **SG5070700** | Price |
| 1/2-13 | 2.36 | 3.62 | 2.56 | 4.92 | **SG5070694** | Price |
| 1/2-13 | 2.36 | 4.25 | 3.11 | 5.47 | **SG5070702** | Price |
| 5/8-11 | 1.57 | 4.25 | 3.11 | 4.68 | **SG5070706** | Price |
| 5/8-11 | 2.36 | 4.25 | 3.11 | 5.47 | **SG5070710** | Price |

## Zinc Ball Stud Style Steel Handles



- Zinc die cast zinc ball style handle
- Durable black powder coated finish
- Insert, screw and spring black zinc coated carbon steel
- RoHs compliant
- Handle is adjustable throughout a 360° rotation

| Thread/Stud Size (in.) | Thread Length (in.) | Handle Length (in.) | Handle Height (in.) | Overall Height (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 5/16-18 | .59 | 2.56 | 1.81 | 2.4 | **SG5070514** | Price |
| 5/16-18 | .78 | 2.56 | 1.81 | 2.59 | **SG5070515** | Price |
| 5/16-18 | 1.18 | 2.56 | 1.81 | 2.99 | **SG5070516** | Price |
| 5/16-18 | 1.57 | 2.56 | 1.81 | 3.38 | **SG5070517** | Price |
| 5/16-18 | 2.36 | 2.56 | 1.81 | 4.17 | **SG5070520** | Price |
| 3/8-16 | .39 | 3.15 | 2.28 | 2.67 | **SG5070528** | Price |
| 3/8-16 | .59 | 2.56 | 1.81 | 2.4 | **SG5070521** | Price |
| 3/8-16 | .78 | 2.56 | 1.81 | 2.59 | **SG5070522** | Price |
| 3/8-16 | .78 | 3.15 | 2.28 | 3.06 | **SG5070529** | Price |
| 3/8-16 | 1.18 | 2.56 | 1.81 | 2.99 | **SG5070523** | Price |
| 3/8-16 | 1.18 | 3.15 | 2.28 | 3.46 | **SG5070530** | Price |
| 3/8-16 | 1.57 | 2.56 | 1.81 | 3.38 | **SG5070524** | Price |
| 1/2-13 | .59 | 3.74 | 2.63 | 3.22 | **SG5070535** | Price |
| 1/2-13 | .78 | 3.74 | 2.63 | 3.41 | **SG5070536** | Price |
| 1/2-13 | .98 | 4.33 | 3.11 | 4.09 | **SG5070550** | Price |
| 1/2-13 | 1.18 | 3.74 | 2.63 | 3.81 | **SG5070537** | Price |
| 1/2-13 | 1.57 | 3.74 | 2.63 | 4.2 | **SG5070538** | Price |
| 1/2-13 | 1.57 | 4.33 | 3.11 | 4.68 | **SG5070551** | Price |
| 1/2-13 | 2.36 | 3.74 | 2.63 | 4.99 | **SG5070541** | Price |
| 1/2-13 | 2.36 | 4.33 | 3.11 | 5.47 | **SG5070552** | Price |
| 5/8-11 | 1.57 | 4.33 | 3.11 | 4.68 | **SG5070553** | Price |
| 5/8-11 | 2.36 | 4.33 | 3.11 | 5.47 | **SG5070554** | Price |

## Plastic Classic Stud Style Steel Handles



- Material: High quality Nylon 6 handle reinforced with 30% glass fiber - Insert, screw and spring black zinc coated carbon steel
- Molded in zinc metal teeth makes handles extremely durable
- Temperature rating -40°F to +265°F
- Lift & Rotate: Handle is adjustable throughout a 360° rotation

| Thread/Stud Size (in.) | Thread Length (in.) | Handle Length (in.) | Handle Height (in.) | Overall Height (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 5/16-18 | .59 | 2.48 | 1.77 | 2.36 | **SG5070787** | Price |
| 5/16-18 | .78 | 2.48 | 1.77 | 2.55 | **SG5070788** | Price |
| 5/16-18 | 1.18 | 2.48 | 1.77 | 2.95 | **SG5070789** | Price |
| 5/16-18 | 1.57 | 2.48 | 1.77 | 4.13 | **SG5070790** | Price |
| 5/16-18 | 2.36 | 2.48 | 1.77 | 4.84 | **SG5070793** | Price |
| 3/8-16 | .59 | 2.48 | 1.77 | 2.36 | **SG5070794** | Price |
| 3/8-16 | .59 | 3.07 | 2.17 | 2.76 | **SG5070805** | Price |
| 3/8-16 | .59 | 3.62 | 2.56 | 3.15 | **SG5070823** | Price |
| 3/8-16 | .78 | 2.48 | 2.17 | 2.95 | **SG5070795** | Price |
| 3/8-16 | .78 | 3.07 | 2.17 | 2.95 | **SG5070806** | Price |
| 3/8-16 | .78 | 3.62 | 2.56 | 3.34 | **SG5070824** | Price |
| 3/8-16 | 1.18 | 2.48 | 2.17 | 3.35 | **SG5070796** | Price |
| 3/8-16 | 1.18 | 3.07 | 2.17 | 3.35 | **SG5070807** | Price |
| 3/8-16 | 1.18 | 3.62 | 2.56 | 3.74 | **SG5070825** | Price |
| 3/8-16 | 1.57 | 2.48 | 2.17 | 3.74 | **SG5070797** | Price |
| 3/8-16 | 1.57 | 3.07 | 2.17 | 3.74 | **SG5070808** | Price |
| 3/8-16 | 1.57 | 3.62 | 2.56 | 4.13 | **SG5070826** | Price |
| 3/8-16 | 2.36 | 2.48 | 2.17 | 4.53 | **SG5070800** | Price |
| 3/8-16 | 2.36 | 3.07 | 2.17 | 4.53 | **SG5070811** | Price |
| 3/8-16 | 2.36 | 3.62 | 2.56 | 4.92 | **SG5070829** | Price |
| 1/2-13 | .59 | 3.62 | 2.56 | 3.15 | **SG5070834** | Price |
| 1/2-13 | .78 | 3.07 | 2.17 | 2.95 | **SG5070817** | Price |
| 1/2-13 | .78 | 3.62 | 2.56 | 3.34 | **SG5070835** | Price |
| 1/2-13 | 1.18 | 3.62 | 2.56 | 3.74 | **SG5070836** | Price |
| 1/2-13 | 1.57 | 3.07 | 2.17 | 3.74 | **SG5070820** | Price |
| 1/2-13 | 1.57 | 3.62 | 2.56 | 4.13 | **SG5070838** | Price |
| 1/2-13 | 2.36 | 3.62 | 2.56 | 4.92 | **SG5070841** | Price |

## Super Bridgeport Clamping Set

### For 5/8” Table Slot with 1/2” -13 T-Nuts & Studs

**Set Contains:**

- 6 Step blocks
- 6 Serrated end clamps
- 4 Coupling nuts
- 4 Flange nuts
- 4 T-slot nuts
- 24 Studs with flats, 4 each: 3, 4, 5, 6, 7 & 8” long
- 1 Holder



| Order No. | Price |
|---|---|
| SG60NS625SS | Price |

## T-Nut and Stud Sets

**Sets Contain:**

- 4 Coupling nuts
- 4 Flange nuts
- 4 T-Slot nuts
- 1 T-Slot cleaner
- 24 studs, 4 each of: English Kits: 3, 4, 5, 6, 7 & 8” long
- 1 Holder

MADE IN THE USA



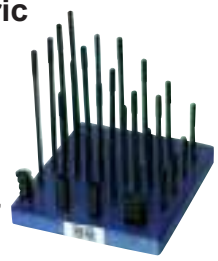
| Table T-Slot Size (in.) | Stud Size (in.) | Order No. | Price |
|---|---|---|---|
| 3/8 | 5/16-18 | **SG5020601** | Price |
| 7/16 | 3/8-16 | **SG5020602** | Price |
| 1/2 | 3/8-16 | **SG5020603** | Price |
| 9/16 | 3/8-16 | **SG5020604** | Price |
| 9/16 | 1/2-13 | **SG5020605** | Price |
| 5/8 | 1/2-13 | **SG5020606** | Price |
| 11/16 | 1/2-13 | **SG5020607** | Price |
| 11/16 | 5/8-11 | **SG5020608** | Price |
| 3/4 | 5/8-11 | **SG5020609** | Price |
| 13/16 | 5/8-11 | **SG5020610** | Price |
| 13/16 | 3/4-10 | **SG5020611** | Price |
| 7/8 | 3/4-10 | **SG5020612** | Price |

## T-Nut & Stud Sets-Metric

**Sets Contain:**

- 4 Coupling nuts
- 4 Flange nuts
- 4 T-Slot nuts
- 1 T-Slot cleaners
- 24 studs - 4 each: Kits 68201-206 - 80, 110, 140, 150, 175 & 200mm / Kits 68207-209 - 80, 110, 150, 175, 200, 250mm
- 1 Holder

MADE IN THE USA



| Table T-Slot Size | Stud Size | Order No. | Price |
|---|---|---|---|
| 10mm | M8 x 1.25 | **SG5068201** | Price |
| 12mm | M10 x 1.5 | **SG5068202** | Price |
| 14mm | M10 x 1.5 | **SG5068203** | Price |
| 14mm | M12 x 1.75 | **SG5068204** | Price |
| 16mm | M12 x 1.75 | **SG5068205** | Price |
| 17mm | M12 x 1.75 | **SG5068206** | Price |
| 18mm | M16 x 2.0 | **SG5068207** | Price |
| 20mm | M16 x 2.0 | **SG5068208** | Price |
| 22mm | M20 x 2.5 | **SG5068209** | Price |

## T-Slot Cleaner

MADE IN THE USA

- Black oxide finish



| Order No. | Price |
|---|---|
| SG5050101 | Price |

## Super Clamp Sets with Steel Blocks

**Sets Contain:**

- 4 Flange nuts
- 4 T-Slot nuts
- 1 T-Slot cleaner
- 4 Coupling nuts
- 6 Step blocks
- 6 Serrated end clamps
- 24 Studs; 4 each of 3, 4, 5, 6, 7 & 8” long
- 1 Holder

MADE IN THE USA



| Block Thickness - 1 | | | | |
|---|---|---|---|---|
| Table T-Slot Size (in.) | Stud Size (in.) | Step Block & Clamp Set No. | Order No. | Price |
| 3/8 | 5/16-18 | 21001 | **SG5020201** | Price |
| 7/16 | 3/8-16 | 21001 | **SG5020202** | Price |
| 1/2 | 3/8-16 | 21001 | **SG5020203** | Price |
| 9/16 | 3/8-16 | 21001 | **SG5020204** | Price |
| 9/16 | 1/2-13 | 21002 | **SG5020205** | Price |
| 5/8 | 1/2-13 | 21002 | **SG5020206** | Price |
| 11/16 | 1/2-13 | 21002 | **SG5020207** | Price |
| 11/16 | 5/8-11 | 21003 | **SG5020208** | Price |
| 3/4 | 5/8-11 | 21003 | **SG5020209** | Price |
| 13/16 | 5/8-11 | 21003 | **SG5020210** | Price |

| Block Thickness - 1-1/2 | | | | |
|---|---|---|---|---|
| Table T-Slot Size (in.) | Stud Size (in.) | Step Block & Clamp Set No. | Order No. | Price |
| 13/16 | 3/4-10 | 21006 | **SG5020217** | Price |
| 7/8 | 3/4-10 | 21006 | **SG5020218** | Price |
| 1 | 3/4-10 | 21006 | **SG5020219** | Price |

| Block Thickness - 2 | | | | |
|---|---|---|---|---|
| Table T-Slot Size (in.) | Stud Size (in.) | Step Block & Clamp Set No. | Order No. | Price |
| 1-1/16 | 1-8 | 21007 | **SG5020221** | Price |

## Small Toe Clamp Kits

- Kit Includes:
- Six Toe Clamps: Two of each length 1-1/2, 2, 2-1/2”
- Six Low Grip Steel Toes
- Six Toe Clamp Nuts
- Six Protective Washers
- One T-Wrench
- One Wooden Holder



| Table Slot (in.) | Toe Clamps | Toe Clamp Nuts | Washers | Order No. | Price |
|---|---|---|---|---|---|
| 3/8 | 46921, 46922, 46923 | 46931 | 46942 | **SG6644901** | Price |
| 7/16 | 46921, 46922, 46923 | 46935 | 46942 | **SG6644902** | Price |
| 1/2 | 46921, 46922, 46923 | 46933 | 46942 | **SG6644903** | Price |
| 9/16 | 46921, 46922, 46923 | 46934 | 46942 | **SG6644904** | Price |
| 5/8 | 46921, 46922, 46923 | 46935 | 46942 | **SG6644905** | Price |

## Large Toe Clamp Kits

**Kit Includes:**

- Six Toe Clamps: Two of each length 3-1/4, 4-11/16, 6-5/8”
- Four Low Grip Steel Toes
- Six Toe Clamp Nuts
- Six Protective Washers
- One T-Wrench
- One Wooden Holder



| Table Slot (in.) | Toe Clamps | Toe Clamp Nuts | Washers | Order No. | Price |
|---|---|---|---|---|---|
| 9/16 | 46926, 46927, 46928 | 46936 | 46943 | **SG6644906** | Price |
| 5/8 | 46926, 46927, 46928 | 46937 | 46943 | **SG6644907** | Price |
| 11/16 | 46926, 46927, 46928 | 46938 | 46943 | **SG6644909** | Price |
| 13/16 | 46926, 46927, 46928 | 46939 | 46943 | **SG6644910** | Price |
| 7/8 | 46926, 46927, 46928 | 46940 | 46943 | **SG6644911** | Price |
| 1 | 46926, 46927, 46928 | 46941 | 46943 | **SG6644912** | Price |

## Machinist Clamping Sets

**Sets Contain:**

- 6 Flange nuts
- 6 T-Slot nuts
- 4 Coupling nuts
- 6 Step blocks
- 6 Serrated end clamps
- 1 T-Slot cleaner
- 24 Studs; 4 each of 3, 4, 5, 6, 7 & 8" long
- †Bridgeport Set
- 1 Holder

MADE IN THE USA



| Table T-Slot Size (in.) | Stud Size (in.) | Step Block & Clamp Set No. | T-Nut No. | Order No. | Price |
|---|---|---|---|---|---|
| 7/16 | 3/8-16 | 21001 | 41404 | **SG5020412** | Price |
| 1/2 | 3/8-16 | 21001 | 41405 | **SG5020413** | Price |
| 9/16 | 3/8-16 | 21001 | 41406 | **SG5020414** | Price |
| 9/16 | 1/2-13 | 21002 | 41409 | **SG5020401** | Price |
| 5/8 | 1/2-13 | 21002 | 41410 | **SG5020402** | Price |
| 11/16 | 1/2-13 | 21002 | 41412 | **SG5020403** | Price |
| 11/16 | 5/8-11 | 21003 | 41415 | **SG5020415** | Price |
| 3/4 | 5/8-11 | 21003 | 41416 | **SG5020416** | Price |
| 13/16 | 5/8-11 | 21003 | 41417 | **SG5020417** | Price |

## Metric Machinist Clamping Sets

**Sets Contain:**

- 4 Coupling nuts
- 6 Flange nuts
- 6 T-slot nuts
- 1 T-slot cleaner
- 24 Studs

**1 Metric Step Block & Clamp Set Including:**

- 6 step blocks
- 6 Serrated end clamps
- 1 Holder

MADE IN THE USA



| Table T-Slot Size | English T-Slot (in.) | Stud Size | Step Block & Clamp Set No. | Order No. | Price |
|---|---|---|---|---|---|
| 12mm | 1/2 | M10 x 1.5 | 21001M | **SG5068001** | Price |
| 14mm | 9/16 | M10 x 1.5 | 21001M | **SG5068002** | Price |
| 14mm | 9/16 | M12 x 1.75 | 21002M | **SG5068003** | Price |
| 16mm | 5/8 | M12 x 1.75 | 21002M | **SG5068004** | Price |
| 17mm | 11/16 | M12 x 1.75 | 21002M | **SG5068005** | Price |
| 18mm | 3/4 | M16 x 2.0 | 21003M | **SG5068006** | Price |
| 20mm | 13/16 | M16 x 2.0 | 21003M | **SG5068007** | Price |

## 52 Pc. Machinist Clamping Set

### For 5/8" Table Slot with 1/2" –13 T-Nuts & Studs

**Set Contains:**

- 4 Coupling nuts
- 6 Flange nuts
- 6 T-slot nuts
- 24 Studs, 4 each:3, 4, 5, 6, 7 & 8" long
- 6 Step blocks
- 6 Serrated end clamps
- 1 All plastic holder

MADE IN THE USA

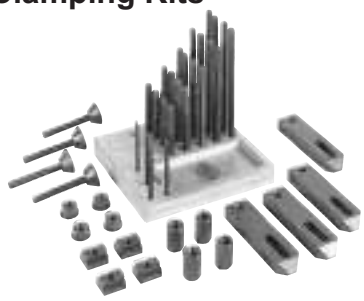


| Order No. | Price |
|---|---|
| **SG6012625CKUS** | Price |

## 40 Pc. Clamping Kits

**Kit Includes:**

- Four Table Saver T-Nuts
- Twenty Studs: Four Each of 4, 5, 6, 7, 8" lengths
- Four Adjustable Clamp Heels
- Four Flange Nuts
- Four Coupling Nuts
- Four Taper Nose Straps
- One T-Slot Cleaner
- One Wooden Holder



| T-Slot Width (in.) | Stud Size (in.) | Strap Clamp (in.) | Adj. Clamp Heel (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 7/16 | 3/8-16 | 5/8 x 1-1/4 x 5 | 3/8-16 x 3 | **SG6645022** | Price |
| 1/2 | 3/8-16 | 5/8 x 1-1/4 x 5 | 3/8-16 x 3 | **SG6645023** | Price |
| 9/16 | 3/8-16 | 5/8 x 1-1/4 x 5 | 3/8-16 x 3 | **SG6645021** | Price |
| 9/16 | 1/2-13 | 7/8 x 1-1/4 x 6 | 1/2-13 x 4 | **SG6645025** | Price |
| 5/8 | 1/2-13 | 7/8 x 1-1/4 x 6 | 1/2-13 x 4 | **SG6645026** | Price |
| 11/16 | 1/2-13 | 7/8 x 1-1/4 x 6 | 1/2-13 x 4 | **SG6645024** | Price |
| 11/16 | 5/8-11 | 7/8 x 1-1/2 x 7 | 5/8-11 x 5 | **SG6645028** | Price |
| 3/4 | 5/8-11 | 7/8 x 1-1/2 x 7 | 5/8-11 x 5 | **SG6645029** | Price |
| 13/16 | 5/8-11 | 7/8 x 1-1/2 x 7 | 5/8-11 x 5 | **SG6645027** | Price |
| 13/16 | 3/4-10 | 1 x 1-1/2 x 6 | 3/4-10 x 7 | **SG6645031** | Price |
| 7/8 | 3/4-10 | 1 x 1-1/2 x 6 | 3/4-10 x 8 | **SG6645032** | Price |
| 1-1/16 | 3/4-10 | 1 x 1-1/2 x 6 | 3/4-10 x 6 | **SG6645030** | Price |

## RAPIDHOLD 58 Pc. Clamp Set

New!

- Fits all Bridgeport type milling machines
- Hardened for longer life

**Set Contains:**

- 6 Flange Nuts
- 6 T-Slot nuts & wall holder
- 6 Forged Steel Step Clamps; 2 each based on stud sets
- 4 Couling Nuts
- 12 Steel Step Blcoks
- 24 Studs; 4 each of 3, 4, 5, 6. 7 & 8" long



| Order No. | Price |
|---|---|
| **SG6158CK** | Price |

## NATIONAL 52 Pc. Clamping Set

### For Bridgeport Type Machines
### For 5/8" Table Slot with 1/2" –13 T-Nuts & Studs

**Set Contains**:

- 4 Coupling nuts
- 6 Flange nuts
- 6 T-slot nuts
- 24 Studs, 4 each:3, 4, 5, 6, 7 & 8" long
- 6 Step blocks
- 6 Serrated end clamps
- 1 All plastic holder

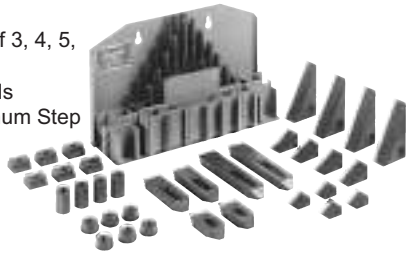


| Order No. | Price |
|---|---|
| **SG6012625CK** | Price |

## 60 Pc. Set-Up Kits with Aluminum Step Blocks

**Kit Includes:**

- Six Table Sve T-Nuts
- Twenty Studs: Four Each of 3, 4, 5, 6, 7, 8" lengths
- Four Adjustable Clamp Heels
- Twelve Course Pitch Aluminum Step Blocks
- Six Flange Nuts
- Four Coupling Nuts
- Six Step Heel Straps
- One T-Slot Cleaner
- One Wooden Holder



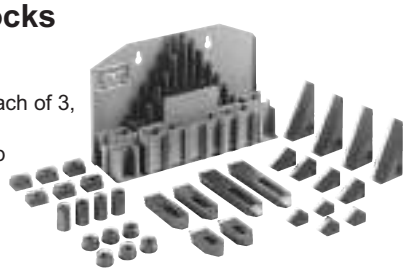
| T-Slot Size (in.) | Thread Size (in.) | Strap Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 9/16 | 1/2-13 | 2-1/2, 4, 6 | **SG6645105** | Price |
| 5/8 | 1/2-13 | 2-1/2, 4, 6 | **SG6645106** | Price |
| 11/16 | 1/2-13 | 2-1/2, 4, 6 | **SG6645104** | Price |
| 11/16 | 5/8-11 | 3, 5, 7 | **SG6645108** | Price |
| 3/4 | 5/8-11 | 3, 5, 7 | **SG6645109** | Price |
| 13/16 | 5/8-11 | 3, 5, 7 | **SG6645107** | Price |

**F.O.B. Factory • UPS Dimensional Weight Rates May Apply**

## 60 Pc. Set-Up Kits with Steel Step Blocks

**Kit Includes:**

- Six Table Saver T-Nuts
- Twenty Four Studs: Four Each of 3, 4, 5, 6, 7, 8" lengths
- Twelve Fine Pitch Steel Step Blocks
- Six Flange Nuts
- Six Steel Heel Straps
- One Wooden Holder



| T-Slot Size (in.) | Thread Size (in.) | Strap Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 9/16 | 1/2-13 | 2-1/2, 4, 6 | **SG6645205** | Price |
| 5/8 | 1/2-13 | 2-1/2, 4, 6 | **SG6645206** | Price |
| 11/16 | 1/2-13 | 2-1/2, 4, 6 | **SG6645204** | Price |
| 11/16 | 5/8-11 | 2-1/2, 4, 6 | **SG6645208** | Price |
| 3/4 | 5/8-11 | 2-1/2, 4, 6 | **SG6645209** | Price |
| 13/16 | 5/8-11 | 2-1/2, 4, 6 | **SG6645207** | Price |

## Forged Adjustable Clamps

- Automatically compenates for clamping height changes within their clamping ranges
- The swivel bushing is permanently mounted in the clamp which alleviates lost or missing parts
- Standard brass heel plate protects the machine table
- Material: 1137 Forged Steel, heat Treated
- Finish: Black Oxide
- One Piece Construction
- Versatile Clamping Height



| Bolt Size (in.) | Clamping Range (in.) | Clamp Width (in.) | Clamp Thickness (in.) | Heel to Center (in.) | Max. Torque (ft/lbs) | Max. Holding Force (lbs) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 1/2 | 0-2 | 1-3/4 | 1-1/2 | 2-1/2 | 90 lbs | 6800 | **SG6619101** | Price |
| 5/8 | 0-2-3/8 | 2 | 1-5/8 | 3 | 180 lbs | 10600 | **SG6619102** | Price |
| 3/4 | 0-2-3/4 | 2-1/2 | 1-3/4 | 3-3/4 | 300 lbs | 16000 | **SG6619103** | Price |
| 7/8 | 0-3-1/2 | 3 | 2-3/8 | 4-1/4 | 500 lbs | 21800 | **SG6619104** | Price |

## Rite Hite Self Positioning Hold Down Clamps

- Use on any machine with a "T" Slot
- Instant adjustment up to 5"
- Assorted stud sizes 3/8" to 1"
- 10,000 to 80,000 lbs. load limit
- Swivel rocker attached to base to prevent loss



| Model - Model L - Longer Reach | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Max. Stud Size | Clamping Range (in.) | Clamp Thickness (in.) | Clamp Width (in.) | Clamp Length (in.) | Approx. Weight | Load Limit | Order No. | Price |
| 3/8 | 0 - 1-1/4 | 1-3/32 | 1-1/8 | 3-1/2 | .5 lbs | 10000 lbs | **SG75375L** | Price |
| 1/2 | 0 - 2-1/2 | 1-13-32 | 1-7/16 | 5-3/4 | 1.4 lbs | 12800 lbs | **SG75500L** | Price |
| 5/8 | 0 - 3-1/2 | 1-1/2 | 1-7/8 | 6-3/4 | 2.5 lbs | 18000 lbs | **SG75625L** | Price |
| 3/4 | 0 - 5 | 2-3/8 | 2-1/8 | 9 | 4.75 lbs | 24000 lbs | **SG75750L** | Price |
| 1 | 0 - 5 | 3-5/16 | 2-7/8 | 11-1/8 | 12 lbs | 65000 lbs | **SG751000L** | Price |

| Model - Model S - Shorter for Closer Set-Ups | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Max. Stud Size | Clamping Range (in.) | Clamp Thickness (in.) | Clamp Width (in.) | Clamp Length (in.) | Approx. Weight | Load Limit | Order No. | Price |
| 3/8 | 0 - 1 | 1-3/32 | 1-1/8 | 3 | .5 lbs | 14000 lbs | **SG75376S** | Price |
| 1/2 | 0 - 1-3/4 | 1-13-32 | 1-3/8 | 4-1/4 | 1 lb | 16800 lbs | **SG75501S** | Price |
| 5/8 | 0 - 2-3/4 | 1-1/2 | 1-7/8 | 5-1/2 | 2 lbs | 24000 lbs | **SG75626S** | Price |
| 3/4 | 0 - 3-1/2 | 2-3/8 | 2.00 | 7 | 4 lbs | 35000 lbs | **SG75751S** | Price |
| 1 | 0 - 3 | 3-5/16 | 2-7/8 | 9 | 10 lbs | 80000 lbs | **SG751001S** | Price |

## Plain Clamps

- Material C-1030 or C-1035



| Style - Standard | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | Jergens | | Generic USA | |
| Length (in.) | Width (in.) | Slot Width (in.) | Slot Length (in.) | Order No. | Price | Order No. | Price |
| 4 | 1-5/8 | 11/16 | 1-3/8 | - | - | **SE5054** | Price |
| 4 | 1-5/8 | 11/16 | 11/16 | **SG6637201** | Price | - | - |
| 6 | 1-3/4 | 11/16 | 2-1/16 | - | - | **SE5056** | Price |
| 8 | 2-1/8 | 13/16 | 2-13/16 | - | - | **SE5058** | Price |
| 10 | 2-1/2 | 15/16 | 3-11/16 | - | - | **SE5059** | Price |
| 150mm | 44mm | 17mm | 35mm | **SG6637203** | Price | - | - |
| 200mm | 54mm | 21mm | 50mm | **SG6637205** | Price | - | - |
| 250mm | 63mm | 24mm | 70mm | **SG6637207** | Price | - | - |

| Style - Tapped | | | | | |
|---|---|---|---|---|---|
| | | | | Jergens | |
| Length (in.) | Width (in.) | Slot Width (in.) | Slot Length (in.) | Order No. | Price |
| 4 | 1-5/8 | 11/16 | 11/16 | **SG6637202** | Price |
| 6 | 1-3/4 | 11/16 | 1-3/8 | **SG6637204** | Price |
| 8 | 2-1/8 | 13/16 | 2 | **SG6637206** | Price |
| 10 | 2-1/2 | 15/16 | 2-3/4 | **SG6637208** | Price |
| 100mm | 41mm | 17mm | 17mm | **SG6637252** | Price |
| 150mm | 44mm | 17mm | 35mm | **SG6637254** | Price |
| 200mm | 54mm | 21mm | 50mm | **SG6637256** | Price |
| 250mm | 63mm | 24mm | 70mm | **SG6637258** | Price |

## Machine U Clamps

- Material: C-1030 or C-1035



| | | | | Jergens | | Generic USA | |
|---|---|---|---|---|---|---|---|
| Length (in.) | Width (in.) | Thickness (in.) | Slot Width (in.) | Order No. | Price | Order No. | Price |
| 4 | 1-3/4 | 3/4 | 11/16 | **SG6637231** | Price | **SE5064** | Price |
| 6 | 2 | 7/8 | 11/16 | **SG6637232** | Price | **SE5066** | Price |
| 8 | 2-3/8 | 1-1/8 | 13/16 | **SG6637233** | Price | **SE5068** | Price |
| 10 | 2-3/4 | 1-1/4 | 15/16 | **SG6637234** | Price | **SE50110** | Price |
| 12 | 3-1/4 | 1-3/8 | 1-1/16 | **SG6637235** | Price | **SE50112** | Price |

## Finger Clamps

- Material: C-1030 or C-1035



| | | | | | Jergens | | Generic USA | |
|---|---|---|---|---|---|---|---|---|
| Length (in.) | Width (in.) | Thick-ness (in.) | Slot Width (in.) | Slot Length (in.) | Order No. | Price | Order No. | Price |
| 4 | 1-3/8 | 3/4 | 11/16 | 1-3/8 | - | - | **SE5044** | Price |
| 4 | 1-5/8 | 3/4 | 11/16 | 11/16 | **SG6637221** | Price | - | - |
| 6 | 1-3/4 | 7/8 | 11/6 | 1-1/4 | **SG6637223** | Price | - | - |
| 8 | 2-1/8 | 1-1/8 | 13/16 | 1-3/4 | **SG6637225** | Price | - | - |

## Gooseneck Clamps

- Material: C-1030 or C-1035
- Available standard or tapped
- Inch Tapped 5/8-11
- Metric Tapped M16 x 2



| Style - Standard | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | Jergens | | Generic USA | |
| Length (in./mm) | Width (in./mm) | Thickness (in./mm) | Slot Width (in./mm) | Order No. | Price | Order No. | Price |
| 4 | 1-3/8 | 3/4 | 11/16 | - | - | **SE5074** | Price |
| 6 | 1-3/4 | 7/8 | 11/16 | - | - | **SE5076** | Price |
| 8 | 2-1/8 | 1-1/8 | 13/16 | - | - | **SE5078** | Price |
| 100mm | 41mm | 19mm | 17mm | **SG6637211** | Price | - | - |
| 150mm | 44mm | 22mm | 17mm | **SG6637213** | Price | - | - |
| 200mm | 54mm | 29mm | 21mm | **SG6637215** | Price | - | - |

| Style - Tapped | | | | | |
|---|---|---|---|---|---|
| | | | | Jergens | |
| Length (in./mm) | Width (in./mm) | Thickness (in./mm) | Slot Width (in./mm) | Order No. | Price |
| 4 | 1-5/8 | 3/4 | 11/16 | **SG6637212** | Price |
| 6 | 1-3/4 | 7/8 | 11/16 | **SG6637214** | Price |
| 8 | 2-1/8 | 1-1/8 | 13/16 | **SG6637216** | Price |
| 100mm | 41mm | 100mm | 17mm | **SG6637262** | Price |
| 150mm | 44mm | 150mm | 17mm | **SG6637264** | Price |
| 200mm | 54mm | 200mm | 21mm | **SG6637266** | Price |

## Micro™ Fixture Clamps

- Low profile makes computer programming easier
- Cam action provides fast, strong clamping
- Small size allows more parts per load
- Requires only a tapped hole in your fixture
- Available in stainless steel





| Style - Inch | | | | | | | |
|---|---|---|---|---|---|---|---|
| A (in./mm) | B (in./mm) | C (in./mm) | D (in./mm) | F (in./mm) | Max. Holding Force | Order No. | Price |
| 8-32 | 11/32 | 5/16 | .110 | 5/64 | 205 lbs | **SG6668501** | Price |
| 10-32 | 11/32 | 1/2 | .160 | 3/32 | 350 lbs | **SG6668502** | Price |
| 1/4-20 | 15/32 | 5/8 | 3/16 | 1/8 | 800 lbs | **SG6668503** | Price |
| 5/16-18 | 15/32 | 13/16 | 3/16 | 3/16 | 750 lbs | **SG6668506** | Price |
| 5/16-24 | 15/32 | 13/16 | 3/16 | 3/16 | 750 lbs | **SG6668505** | Price |
| 3/8-16 | 23/32 | 13/16 | 1/4 | 3/16 | 2000 lbs | **SG6668507** | Price |
| 1/2-13 | 29/32 | 1 | 3/8 | 5/16 | 4000 lbs | **SG6668509** | Price |
| 5/8-11 | 1 | 1-3/16 | 1/2 | 3/8 | 6000 lbs | **SG6668511** | Price |

| Style - Metric | | | | | | | |
|---|---|---|---|---|---|---|---|
| A (in./mm) | B (in./mm) | C (in./mm) | D (in./mm) | F (in./mm) | Max. Holding Force | Order No. | Price |
| M4 x 0.7 | 9.6 | 7.93 | 2.8 | 3 | 90 lbs | **SG6668571** | Price |
| M6 x 1.0 | 11.2 | 15.86 | 4.75 | 4 | 340 lbs | **SG6668572** | Price |
| M8 x 1.25 | 15.0 | 20.61 | 4.75 | 5 | 360 lbs | **SG6668573** | Price |
| M10 x 1.5 | 19.0 | 20.61 | 6.35 | 7 | 900 lbs | **SG6668574** | Price |
| M12 x 1.75 | 22.8 | 25.38 | 9.52 | 8 | 1800 lbs | **SG6668575** | Price |
| M16 x 2.0 | 28.5 | 30.13 | 12.69 | 12 | 2700 lbs | **SG6668576** | Price |

## Knife Edge Clamps

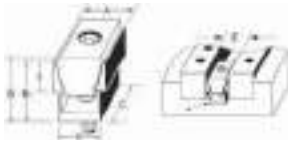
- Knife edge clamps can be used for clamping rough cut stock, castings, or any material that requires a hardenend clamping element
- Hardened steel, brass-plated

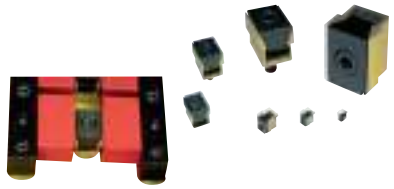


| Style - Inch | | | | | | | |
|---|---|---|---|---|---|---|---|
| Thread Size (in./mm) | Thread Length (in./mm) | Width Across Flats (in./mm) | Thickness (in./mm) | Hex Key Size (in./mm) | Max. Holding Force | Order No. | Price |
| 3/8-16 | 3/16 | 13/16 | 1/4 | 23/32 | 2000 lbs | **SG6668547** | Price |
| 1/2-13 | 5/16 | 1 | 3/8 | 29/32 | 4000 lbs | **SG6668548** | Price |
| 5/8-11 | 3/8 | 1-3/16 | 1/2 | 1-1/4 | 6000 lbs | **SG6668549** | Price |

| Style - Metric | | | | | | | |
|---|---|---|---|---|---|---|---|
| Thread Size (in./mm) | Thread Length (in./mm) | Width Across Flats (in./mm) | Thickness (in./mm) | Hex Key Size (in./mm) | Max. Holding Force | Order No. | Price |
| M10 | M10 | 7M | 20.60 | 19.0 | 8895 lbs | **SG6668840** | Price |
| M12 | M12 | 8M | 25.40 | 22.8 | 17790 lbs | **SG6668841** | Price |
| M16 | M16 | 12M | 30.15 | 28.5 | 26680 lbs | **SG6668842** | Price |

## Uniforce® Clamps





- Compact, economical workholding device enables you to fixture more parts on the machine table
- Efficient method of clamping workpieces will decrease your set up time and increase your profits and production
- *F Means the distance between workpieces for clamp clearance
- Drill and tap mounting tap mounting hole on the center of F dimension

| Style - Inch | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thread Size (in.) | Hex Key Size (in.) | Max. Spread | Holding Force | Clamps Per Pack | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F* (in.) | Order No. | Price |
| 1/2-13 | 3/8 | 1.560 | 3500 lbs | 2 | 1.470 | 1.52 | 1.875 | 1.215 | .750 | 1.500 | **SG7061500** | Price |
| 2-56 | 5/64 | .260 | 200 lbs | 6 | 240 | .27 | .320 | .210 | .140 | .250 | **SG7060250** | Price |
| 4-40 | 3/32 | .390 | 310 lbs | 6 | 360 | .38 | .470 | .310 | .185 | .675 | **SG7060375** | Price |
| 5/8-11 | 1/2 | 2.080 | 6000 lbs | 2 | 1.960 | 2.03 | 2.50 | 1.625 | 1.000 | 2.000 | **SG7062000** | Price |
| 1/4-20 | 3/16 | .785 | 1500 lbs | 6 | .735 | .77 | .940 | .635 | .375 | .750 | **SG7060750** | Price |
| 5/16-18 | 1/4 | 1.050 | 2000 lbs | 4 | .980 | 1.02 | 1.250 | .820 | .500 | 1.000 | **SG7061000** | Price |
| 8-32 | 9/64 | .530 | 500 lbs | 8 | .485 | .58 | .625 | .410 | .220 | .500 | **SG7060500** | Price |

| Style - Metric | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thread Size (in.) | Hex Key Size (in.) | Max. Spread | Holding Force | Clamps Per Pack | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F* (in.) | Order No. | Price |
| M12 | 10.0mm | 39.9mm | 11525 lbs | 2 | 37.3mm | 38.6mm | 47.6mm | 30.8mm | 19.0mm | 38.10mm | **SG7081500** | Price |
| M16 | 14.0mm | 53.0mm | 19750 lbs | 2 | 49.7mm | 51.5mm | 63.50mm | 41.2mm | 25.4mm | 50.80mm | **SG7082000** | Price |
| M2 | 1.5mm | 6.7mm | 650 lbs | 6 | 6.1mm | 6.9mm | 8.1mm | 5.3mm | 3.6mm | 6.40mm | **SG7080250** | Price |
| M2.5 | 2.0mm | 10.0mm | 999 lbs | 6 | 9.1mm | 9.7mm | 11.9mm | 7.9mm | 4.7mm | 9.50mm | **SG7080375** | Price |
| M4 | 3.0mm | 13.2mm | 1640 lbs | 8 | 12.3mm | 14.5mm | 15.9mm | 10.4mm | 5.6mm | 12.70mm | **SG7080500** | Price |
| M6 | 5.0mm | 20.3mm | 4930 lbs | 6 | 18.6mm | 19.0mm | 23.8mm | 16.1mm | 9.5mm | 19.05mm | **SG7080750** | Price |
| M8 | 6.0mm | 26.9mm | 8230 lbs | 4 | 24.8mm | 25.9mm | 31.7mm | 20.8mm | 12.7mm | 25.40mm | **SG7081000** | Price |

## Knife Edge Clamps

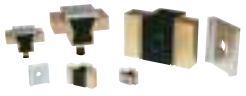


- Can be used instead of the original brass hex clamps for clamping rough cut stock, castings and any material that requires a hardened clamping element
- Produced in 12L 14 steel with a nickel coating

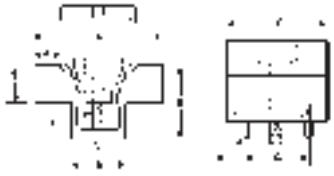
| Style - Inch | | | |
|---|---|---|---|
| Thread Size (in.) | Package Includes | Order No. | Price |
| 1/2-13 | (8) Cam Screws + Knife Edge W | **SG7022588** | Price |
| 3/8-16 | (8) Cam Screws + Knife Edge W | **SG7022584** | Price |
| 5/8-11 | (4) Cam Screws + Knife Edge W | **SG7022592** | Price |

| Style - Metric | | | |
|---|---|---|---|
| Thread Size (in.) | Package Includes | Order No. | Price |
| M10 | (8) Cam Screws + Knife Edge W | **SG7082584** | Price |
| M12 | (8) Cam Screws + Knife Edge W | **SG7082588** | Price |
| M16 | (4) Cam Screws + Knife Edge W | **SG7082592** | Price |

## Machinable Uniforce Clamps







- The compact Uniforce® clamp is available with extra material on the clamping jaws so it can be machined to conform to the shape of your workpiece - enabling you to fixture unusual applications easily
- The specially designed steel wedge spreads the clamping force uniformly on both sides of the 7075-T6 aluminum channel
- *A: The distance needed between workpieces for clamp clearance, drill and tap mounting holes on the center of “A” dimension
- †F: The amount of machinable stock on jaws
- **H: Mounting screws included
- NOTE: Locking plate properly expands the clamp, while making it rigid for machining - Machine to a slip fit on workpiece - Remove locking plate before clamping workpiece

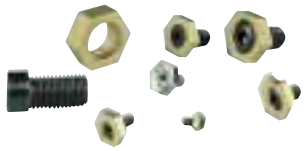
| Style - Inch | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A* (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F† | G | H** | I (in.) | Holding Force | Order No. | Price |
| 1.125 | .50 | .62 | .420 | .250 | .18 | .400 | 2-56 | 8-32 | 500 lbs | **SG7060050** | Price |
| 1.125 | .50 | .92 | .420 | .250 | .18 | .400 | 2-56 | 8-32 | 500 lbs | **SG7060055** | Price |
| 1.50 | .75 | .94 | .632 | .370 | .26 | .625 | 6-32 | 1/4-20 | 1500 lbs | **SG7060075** | Price |
| 1.50 | .75 | .94 | .632 | .370 | .26 | .625 | 6-32 | 1/4-20 | 1500 lbs | **SG7060080** | Price |
| 2.00 | 1.00 | 1.25 | .820 | .500 | .39 | .812 | 6-32 | 5/16-18 | 2000 lbs | **SG7060100** | Price |
| 2.00 | 1.00 | 1.25 | .820 | .500 | .39 | .812 | 6-32 | 5/16-18 | 2000 lbs | **SG7060105** | Price |
| 3.00 | 1.50 | 1.87 | 1.215 | .750 | .62 | 1.200 | 10-32 | 1/2-13 | 3500 lbs | **SG7060150** | Price |
| 3.00 | 1.50 | 1.87 | 1.215 | .750 | .62 | 1.200 | 10-32 | 1/2-13 | 3500 lbs | **SG7060153** | Price |
| 4.00 | 2.00 | 2.50 | 1.625 | 1.00 | .80 | 1.625 | 1/4-20 | 5/8-11 | 6000 lbs | **SG7060200** | Price |
| 4.00 | 2.00 | 2.50 | 1.625 | 1.00 | .80 | 1.625 | 1/4-20 | 5/8-11 | 6000 lbs | **SG7060203** | Price |

| Style - Metric | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A* (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F† | G | H** | I (in.) | Holding Force | Order No. | Price |
| 28.6mm | 12.7mm | 15.7mm | 10.67mm | 6.3mm | 4.6mm | 10.16mm | M2 | M4 | 1640 lbs | **SG7080050** | Price |
| 28.6mm | 12.7mm | 15.7mm | 10.67mm | 6.3mm | 4.6mm | 10.16mm | M2 | M4 | 1640 lbs | **SG7080055** | Price |
| 38.1mm | 19.1mm | 23.9mm | 16.05mm | 9.4mm | 6.6mm | 15.87mm | M4 | M6 | 4930 lbs | **SG7080075** | Price |
| 38.1mm | 19.1mm | 23.9mm | 16.05mm | 9.4mm | 6.6mm | 15.87mm | M4 | M6 | 4930 lbs | **SG7080080** | Price |
| 50.8mm | 25.4mm | 31.8mm | 20.83mm | 12.7mm | 9.9mm | 20.62mm | M4 | M8 | 8230 lbs | **SG7080100** | Price |
| 50.8mm | 25.4mm | 31.8mm | 20.83mm | 12.7mm | 9.9mm | 20.62mm | M4 | M8 | 8230 lbs | **SG7080105** | Price |
| 50.8mm | 50.8mm | 63.5mm | 41.28mm | 25.4mm | 20.3mm | 41.28mm | M6 | M16 | 19750 lbs | **SG7080200** | Price |
| 50.8mm | 50.8mm | 63.5mm | 41.28mm | 25.4mm | 20.3mm | 41.28mm | M6 | M16 | 19750 lbs | **SG7080205** | Price |
| 76.2mm | 38.1mm | 47.5mm | 30.86mm | 19.1mm | 15.7mm | 30.48mm | M5 | M12 | 11520 lbs | **SG7080150** | Price |
| 76.2mm | 38.1mm | 47.5mm | 30.86mm | 19.1mm | 15.7mm | 30.48mm | M5 | M12 | 11520 lbs | **SG7080155** | Price |

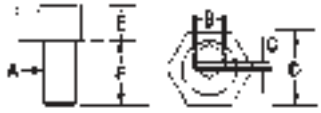
## MITEE-BITE Fixture Clamps

- Made up of two simple components: a hardened steel socket cap screw with an offset head & a hexagonal washer
- Low profile for quick and easy installation of linear motion gide rails
- Cam action provides fast, strong clamping
- Small size allows more parts per load










| Style - Inch | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | Max. Holding Force | No. of Clamps Per Pkg | Order No. | Price |
| 1/2-13 | 5/16 | .100 | 1.000 | .375 | .900 | 4000 lbs | 8 | **SG7010208** | Price |
| 1/4-20 | 1/8 | .040 | .625 | .190 | .470 | 800 lbs | 10 | **SG7010204** | Price |
| 10-32 | 3/32 | .040 | .500 | .160 | .340 | 350 lbs | 10 | **SG7010207** | Price |
| 3/8-16 | 3/16 | .050 | .812 | .250 | .710 | 2000 lbs | 10 | **SG7010206** | Price |
| 5/16-18 | 3/16 | .040 | .812 | .190 | .460 | 800 lbs | 12 | **SG7010201** | Price |
| 5/16-24 | 3/16 | .040 | .812 | .190 | .460 | 800 lbs | 12 | **SG7010205** | Price |
| 5/8-11 | 3/8 | .100 | 1.187 | .500 | 1.125 | 6000 lbs | 4 | **SG7010210** | Price |
| 8-32 | 5/64 | .030 | .312 | .110 | .350 | 205 lbs | 10 | **SG7010202** | Price |

| Style - Metric | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | Max. Holding Force | No. of Clamps Per Pkg | Order No. | Price |
| M10 | 7mm | 1.27mm | 20.61mm | 6.35mm | 19.0mm | 6560 lbs | 10 | **SG7050210** | Price |
| M12 | 8mm | 2.03mm | 25.38mm | 9.52mm | 22.8mm | 13120 lbs | 8 | **SG7050212** | Price |
| M16 | 12mm | 2.54mm | 30.13mm | 12.70mm | 28.5mm | 19670 lbs | 4 | **SG7050216** | Price |
| M4 | 3mm | .76mm | 7.93mm | 2.80mm | 9.6mm | 670 lbs | 10 | **SG7050204** | Price |
| M6 | 4mm | 1.01mm | 15.86mm | 4.75mm | 11.2mm | 2620 lbs | 10 | **SG7050206** | Price |
| M8 | 5mm | 1.01mm | 20.61mm | 4.55mm | 15.0mm | 2620 lbs | 12 | **SG7050208** | Price |

| Style - Stainless Steel | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | Max. Holding Force | No. of Clamps Per Pkg | Order No. | Price |
| 1/4-20 | 1/8 | .040 | .625 | .190 | .470 | 800 lbs | 4 | **SG7010203** | Price |
| 5/16-18 | 3/16 | .040 | .812 | .250 | .460 | 800 lbs | 4 | **SG7010213** | Price |
| M6 | 4mm | 1.01mm | 15.86mm | 4.75mm | 11.2mm | 671 lbs | 4 | **SG7050205** | Price |
| M8 | 5mm | 1.01mm | 20.60mm | 6.35mm | 15.0mm | 2620 lbs | 4 | **SG7050207** | Price |

## MITEE-BITE ID Xpansion Clamps

- Ideal way to hold parts on an inside diameter for multiple machining on vertical or horizontal machining centers
- Can also be used as an expanding mandrel on a lathe
- Produced in 12L14 steel with black oxide coating
- Can hold interanl diameters from under 3/16 to amlomst 10” (4.0 to 254mm)
- No. 10 manufactured using 7076-T6 aluminum
- Flange diameter of the clamp is held to a close tolerance for precision locating in a machined pocket on work cubes and fixture plates
- Wuickly tightened with a hex key, torque driver or can be mated to hydraulic pull cylinders for automation
- G†- Minimum diameter the “F” dimension be machined or turned down to
- H*-(3) Mounting screws included







| Style - Inch | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Model No. | A (in.) | B (in.) | C (in.) | D (in.) | E -.002 (in.) | F (in.) | G† (in.) | H* (in.) | I (in.) | J (in.) | Holding Force | Order No. | Price |
| #10 | 1.79 | 1.48 | 1.27 | .31 | 6.000 | 9.85 | 1.15 | 1/4-20 on 5 .250 BHC | 5/8-11 | .790 | 6000 lbs | **SG7031550** | Price |
| #9 | 1.79 | 1.48 | 1.27 | .31 | 5.232 | 6.89 | 1.15 | 1/4-20 on 4.648 BHC | 5/8-11 | .790 | 10000 lbs | **SG7031500** | Price |
| #0 | .86 | .63 | .59 | .23 | 1.170 | .49 | .28 | 6-32 on .825 BHC | 8-32 | .300 | 950 lbs | **SG7031050** | Price |
| #00 | .42 | .30 | .24 | .12 | .787 | .29 | .16 | 2-56 on .540 BHC | 2-56 | .160 | 250 lbs | **SG7031000** | Price |
| #1 | .98 | .75 | .59 | .23 | 1.240 | .56 | .48 | 6-32 on .910 BHC | 1/4-20 | .500 | 1900 lbs | **SG7031100** | Price |
| #2 | .98 | .75 | .59 | .23 | 1.476 | .79 | .53 | 6-32 on 1.140 BHC | 5/16-18 | .560 | 2500 lbs | **SG7031150** | Price |
| #3 | 1.13 | .88 | .69 | .25 | 1.968 | 1.06 | .71 | 8-32 on 1.550 BHC | 3/8-16 | .710 | 4500 lbs | **SG7031200** | Price |
| #4 | 1.25 | 1.00 | .81 | .25 | 2.205 | 1.39 | .90 | 8-32 on 1.790 BHC | 1/2-13 | .710 | 5900 lbs | **SG7031250** | Price |
| #5 | 1.56 | 1.25 | 1.06 | .31 | 2.736 | 1.65 | 1.15 | 10-32 on 2.200 BHC | 5/8-11 | .790 | 10000 lbs | **SG7031300** | Price |
| #6 | 1.56 | 1.25 | 1.06 | .31 | 2.972 | 2.03 | 1.15 | 10-32 on 2.515 BHC | 5/8-11 | .790 | 10000 lbs | **SG7031350** | Price |
| #7 | 1.79 | 1.48 | 1.27 | .31 | 4.232 | 3.06 | 1.15 | 1/4-20 on 3.646 BHC | 5/8-11 | .790 | 10000 lbs | **SG7031400** | Price |
| #8 | 1.79 | 1.48 | 1.27 | .31 | 5.232 | 4.06 | 1.15 | 1/4-20 on 4.648 BHC | 5/8-11 | .790 | 10000 lbs | **SG7031450** | Price |

## ID Xpansion Clamps (cont.)







| Style - Metric | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Model No. | A (in.) | B (in.) | C (in.) | D (in.) | E -.002 (in.) | F (in.) | G† (in.) | H* (in.) | I (in.) | J (in.) | Holding Force | Order No. | Price |
| #0 | 21.8mm | 16.0mm | 15.0mm | 5.9mm | 29.72mm | 12.4mm | 7.1mm | M3 on 20.95mm BHD | M4 | 7.2mm | 3125 lbs | **SG7038050** | Price |
| #00 | 10.7mm | 7.6mm | 6.1mm | 3.0mm | 20.00mm | 7.4mm | 4.1mm | M2 on 13.7mm BHC | M2 | 4.1mm | 823 lbs | **SG7038000** | Price |
| #1 | 24.9mm | 19.0mm | 15.0mm | 5.9mm | 31.50mm | 14.2mm | 12.2mm | M3 on 23.1mm BHC | M4 | 11.2mm | 6256 lbs | **SG7038100** | Price |
| #10 | 45.5mm | 37.6mm | 32.3mm | 7.9mm | 152.40mm | 250.2mm | 29.3mm | M6 on 133.35mm BHC | M16 | 19.3mm | 19240 lbs | **SG7038550** | Price |
| #2 | 24.9mm | 19.0mm | 15.0mm | 5.9mm | 37.50mm | 20.0mm | 13.5mm | M3 on 29.0mm BHC | M8 | 13.2mm | 8232 lbs | **SG7038150** | Price |
| #3 | 28.6mm | 22.2mm | 17.5mm | 6.4mm | 50.00mm | 27.0mm | 18.0mm | M4 on 39.4mm BHC | M10 | 16.3mm | 14818 lbs | **SG7038200** | Price |
| #4 | 31.8mm | 25.4mm | 20.6mm | 6.4mm | 56.00mm | 35.3mm | 23.0mm | M4 on 45.5mm BHC | M12 | 20.3mm | 19425 lbs | **SG7038250** | Price |
| #5 | 39.6mm | 31.8mm | 27.0mm | 7.9mm | 69.50mm | 42.0mm | 29.3mm | M5 on 55.9mm BHC | M16 | 21.4mm | 32930 lbs | **SG7038300** | Price |
| #6 | 39.6mm | 31.8mm | 27.0mm | 7.9mm | 72.50mm | 51.5mm | 29.3mm | M5 on 63.9mm BHC | M16 | 21.4mm | 32930 lbs | **SG7038350** | Price |
| #7 | 45.5mm | 37.6mm | 32.3mm | 7.9mm | 107.50mm | 77.7mm | 29.3mm | M6 on 92.6mm BHC | M16 | 19.3mm | 32930 lbs | **SG7038400** | Price |
| #9 | 45.5mm | 37.6mm | 32.3mm | 7.9mm | 132.90mm | 175.0mm | 29.3mm | M6 on 118.06mm BHC | M16 | 19.3mm | 32930 lbs | **SG7038500** | Price |
| 38 | 45.5mm | 37.6mm | 32.3mm | 7.9mm | 132.90mm | 103.0mm | 29.3mm | M6 on 118.06mm BHC | M16 | 19.3mm | 32930 lbs | **SG7038450** | Price |

## Pitbull® Clamps

- Revolutionary Pitbull® clamp remains the lowest profile, highest holding force clampe
- High vertical and horizontal clamping forces are generated, considering the size of the Pitbull® Clamps
- Uses a standard cap screw and an oil resistant O-ring
- Low bite
- Positive down force
- High strength A2 Tool Steel
- D*- Clamp height







| Description - Brass, Blunt Edge Style - Inch | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A (in.) | B (in.) | C (in.) | D* (in.) | E (in.) | Clamp Width (in.) | Screw Size (in.) | Max. Holding Force | Torque (in./lbs.) | Total Throw | No. Clamps Per Package | Order No. | Price |
| .150 | .140 | .375 | .075 | .220 | .375 | 4-40 | 200 lbs | .41 | .0075 | 8 | **SG7026015** | Price |
| .200 | .187 | .500 | .100 | .340 | .500 | 8-32 | 400 lbs | 2.00 | .0160 | 8 | **SG7026040** | Price |
| .300 | .280 | .750 | .150 | .440 | .750 | 1/4-20 | 950 lbs | 4.10 | .0240 | 6 | **SG7026065** | Price |

| Description - Brass, Blunt Edge Style - Metric | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A (in.) | B (in.) | C (in.) | D* (in.) | E (in.) | Clamp Width (in.) | Screw Size (in.) | Max. Holding Force | Torque (in./lbs.) | Total Throw | No. Clamps Per Package | Order No. | Price |
| 3.81mm | 3.55mm | 9.52mm | 1.90mm | 5.59mm | 9.52mm | M2.5 | 650 lbs | .41 | .190mm | 8 | **SG7056015** | Price |
| 5.08mm | 4.75mm | 12.70mm | 2.54mm | 8.64mm | 12.70mm | M4 | 1295 lbs | 2.07 | .406mm | 8 | **SG7056040** | Price |
| 7.62mm | 7.11mm | 19.05mm | 3.81mm | 11.18mm | 19.05mm | M6 | 3108 lbs | 4.14 | .610mm | 6 | **SG7056065** | Price |

| Description - Tool Steel, Blunt Edge Style - Inch | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A (in.) | B (in.) | C (in.) | D* (in.) | E (in.) | Clamp Width (in.) | Screw Size (in.) | Max. Holding Force | Torque (in./lbs.) | Total Throw | No. Clamps Per Package | Order No. | Price |
| .150 | .140 | .375 | .075 | .260 | .375 | 4-40 | 650 lbs | 1.30 | .0075 | 8 | **SG7026010** | Price |
| .200 | .187 | .500 | .100 | .390 | .500 | 8-32 | 1500 lbs | 3.70 | .0160 | 8 | **SG7026030** | Price |
| .300 | .280 | .750 | .150 | .570 | .750 | 1/4-20 | 3600 lbs | 14.50 | .0240 | 6 | **SG7026060** | Price |
| .400 | .450 | 1.000 | .250 | .710 | 1.000 | 3/8-16 | 6000 lbs | 30.00 | .0500 | 4 | **SG7026075** | Price |
| .600 | .400 | 1.500 | .375 | .770 | 1.500 | 1/2-13 | 12000 lbs | 108.30 | .0750 | 2 | **SG7026085** | Price |

| Description - Tool Steel, Blunt Edge Style - Metric | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A (in.) | B (in.) | C (in.) | D* (in.) | E (in.) | Clamp Width (in.) | Screw Size (in.) | Max. Holding Force | Torque (in./lbs.) | Total Throw | No. Clamps Per Package | Order No. | Price |
| 10.16mm | 11.43mm | 25.40mm | 6.35mm | 18.03mm | 25.40mm | M10 | 19240 lbs | 30.04 | 1.270mm | 4 | **SG7056075** | Price |
| 15.24mm | 16.26mm | 38.10mm | 9.52mm | 19.56mm | 38.10mm | M12 | 37000 lbs | 107.30 | 1.900mm | 2 | **SG7056085** | Price |
| 3.81mm | 3.55mm | 9.52mm | 1.90mm | 6.60mm | 9.52mm | M2.5 | 2070 lbs | 1.33 | .190mm | 8 | **SG7056010** | Price |
| 5.08mm | 4.75mm | 12.70mm | 2.54mm | 9.90mm | 12.70mm | M4 | 4880 lbs | 4.14 | .406mm | 8 | **SG7056030** | Price |
| 7.62mm | 7.11mm | 19.05mm | 3.81mm | 14.48mm | 19.05mm | M6 | 11840 lbs | 16.65 | .610mm | 6 | **SG7056060** | Price |

| Description - Tool Steel, Knife Edge Style - Inch | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A (in.) | B (in.) | C (in.) | D* (in.) | E (in.) | Clamp Width (in.) | Screw Size (in.) | Max. Holding Force | Torque (in./lbs.) | Total Throw | No. Clamps Per Package | Order No. | Price |
| .150 | .140 | .375 | .075 | .260 | .375 | 4-40 | 650 lbs | 1.30 | .0075 | 8 | **SG7026000** | Price |
| .200 | .187 | .500 | .100 | .390 | .500 | 8-32 | 1500 lbs | 3.70 | .0160 | 8 | **SG7026020** | Price |
| .300 | .280 | .750 | .150 | .570 | .750 | 1/4-20 | 3600 lbs | 14.50 | .0240 | 6 | **SG7026050** | Price |
| .400 | .450 | 1.000 | .250 | .710 | 1.000 | 3/8-16 | 6000 lbs | 30.00 | .0500 | 4 | **SG7026070** | Price |
| .600 | .640 | 1.500 | .375 | .770 | 1.500 | 1/2-13 | 12000 lbs | 108.30 | .0750 | 2 | **SG7026080** | Price |

| Description - Tool Steel, Knife Edge Style - Metric | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A (in.) | B (in.) | C (in.) | D* (in.) | E (in.) | Clamp Width (in.) | Screw Size (in.) | Max. Holding Force | Torque (in./lbs.) | Total Throw | No. Clamps Per Package | Order No. | Price |
| 10.16mm | 11.43mm | 25.40mm | 6.35mm | 18.03mm | 25.40mm | M10 | 19240 lbs | 30.04 | 1.270mm | 4 | **SG7056070** | Price |
| 15.24mm | 16.26mm | 38.10mm | 9.52mm | 19.56mm | 38.10mm | M12 | 37000 lbs | 107.30 | 1.900mm | 2 | **SG7056080** | Price |
| 3.81mm | 3.55mm | 9.52mm | 1.90mm | 6.60mm | 9.52mm | M2.5 | 2070 lbs | 1.33 | .190mm | 8 | **SG7056000** | Price |
| 5.08mm | 4.75mm | 12.70mm | 2.54mm | 9.90mm | 12.70mm | M4 | 4880 lbs | 4.14 | .406mm | 8 | **SG7056020** | Price |
| 7.62mm | 7.11mm | 19.05mm | 3.81mm | 14.48mm | 19.05mm | M6 | 11840 lbs | 16.65 | .610mm | 6 | **SG7056050** | Price |

## Toolmaker's Parallel Clamps



- Holding or clamping when drilling, tapping and assembling
- Jaws and screws are hardened
- NE604PCS Includes 1 each: 275, 276, 277, & 278

| Type - Parallel Clamp | | | | | |
|---|---|---|---|---|---|
| | | National | | Starrett | |
| Jaw Capacity (in.) | Jaw Length (in.) | Order No. | Price | Order No. | Price |
| 3/4 | 5/8 | - | - | MV7050593 | Price |
| 1-1/4 | 2 | - | - | MV7050594 | Price |
| 1-3/4 | 2-1/2 | NE60274 | Price | MV7050595 | Price |
| 2-1/4 | 3 | NE60275 | Price | MV7050596 | Price |
| 2-3/4 | 4 | NE60276 | Price | MV7050597 | Price |
| 3-1/2 | 5 | NE60277 | Price | MV7050598 | Price |
| 4-1/2 | 6 | NE60278 | Price | - | - |
| 6 | 8 | NE60279 | Price | - | - |

| Type - 4 Piece Parallel Clamp Set | | | |
|---|---|---|---|
| | | National | |
| Jaw Capacity (in.) | Jaw Length (in.) | Order No. | Price |
| 2-1/4 to 4-1/2 | 3 to 6 | NE604PCS | Price |

## IRWIN QUICK-GRIP C-Clamps



- Double-rolled thread
- Larger swivel pad reduces marring
- Larger handle for greater clamping pressure

| Max. Opening (in.) | Throat Depth (in.) | Screw Size (in.) | Test Load | Order No. | Price |
|---|---|---|---|---|---|
| 1 | 1-3/16 | 1/4 | 400 lbs | KX50101 | Price |
| 2 | 1-5/16 | 3/8 | 500 lbs | KX50102 | Price |
| 2 | 3-1/2 | 3/8 | 400 lbs | KX50123 | Price |
| 3 | 2-1/4 | 1/2 | 800 lbs | KX50103 | Price |
| 3 | 4-1/2 | 1/2 | 400 lbs | KX50134 | Price |
| 4 | 3 | 9/16 | 1200 lbs | KX50104 | Price |
| 6 | 3-1/2 | 5/8 | 1500 lbs | KX50106 | Price |
| 8 | 4 | 3/4 | 1500 lbs | KX50108 | Price |

## 540 Series Ductile Alloy C-Clamps



- 540 series C-Clamps made of high tensile ductile alloy casting
- Provides excellent strength in a cast clamp
- Black oxide spindle to resist corrosion

| Max. Opening | Throat Depth (in.) | Spindle Dia. (in.) | Clamping Pressure | Order No. | Price |
|---|---|---|---|---|---|
| 2-1/2 | 1-3/4 | 1/2 | 1100 lbs | SG75540212 | Price |
| 3 | 1-7/8 | 1/2 | 1800 lbs | SG755403 | Price |
| 4 | 2 | 5/8 | 2150 lbs | SG755404 | Price |
| 5 | 2-1/2 | 5/8 | 2250 lbs | SG755405 | Price |
| 6 | 2-3/4 | 5/8 | 2450 lbs | SG755406 | Price |
| 8 | 3-1/4 | 3/4 | 2750 lbs | SG755408 | Price |
| 10 | 3-5/8 | 7/8 | 2850 lbs | SG7554010 | Price |
| 12 | 3-5/8 | 7/8 | 2850 lbs | SG7554012 | Price |
| 14 | 3-3/4 | 7/8 | 2850 lbs | SG7554014 | Price |

## Drop Forged Light Duty C-Clamps



- Galvanized finish frame
- Swivel pad moves freely to adapt to various surfaces
- Steel sliding pin for use in tight spaces

| Max. Opening | Throat Depth (in.) | Spindle Dia. (in.) | Clamping Pressure | Order No. | Price |
|---|---|---|---|---|---|
| 1 | 1 | 5/16 | 400 lbs | SG75CM10 | Price |
| 1-1/2 | 1-1/2 | 5/16 | 400 lbs | SG75CM15 | Price |
| 2 | 1-1/2 | 3/8 | 400 lbs | SG75CM20 | Price |
| 3 | 1-3/4 | 1/2 | 800 lbs | SG75CM30 | Price |
| 2-1/2 | 1-3/8 | 3.8 | 600 lbs | SG75CM22 | Price |

## Series 50 Super Junior Clamps



- Forged steel, heat treated frames
- Steel screws are zinc plated

| Opening (in.) | Throat Depth (in.) | Test Load | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 0 - 1 | 1 | 500 lbs | .100 lbs | SF3050 | Price |
| 0 - 1 | 1-1/2 | 500 lbs | .220 lbs | SF3051 | Price |
| 0 - 1-1/4 | 1-1/4 | 800 lbs | .240 lbs | SF3052 | Price |
| 0 - 1-1/2 | 1-1/2 | 850 lbs | .150 lbs | SF3053 | Price |
| 0 - 2 | 1-1/4 | 875 lbs | .300 lbs | SF3054 | Price |
| 0 - 2-1/2 | 2-1/2 | 850 lbs | .750 lbs | SF3056 | Price |
| 0 - 3 | 1-3/8 | 1100 lbs | .550 lbs | SF3055 | Price |

## 800 Series Standard Depth C-Clamps



- PERMA-PADS®: Exclusive black oxide coated pad swivels and adapts to angular work pieces for tighter holding
- Spindle and PERMA-PADS® are replaceable and can be individually ordered

| Max. Opening (in.) | Throat Depth (in.) | Spindle Dia. (in.) | Clamping Pressure | Order No. | Price |
|---|---|---|---|---|---|
| 0 - 2 | 1-13/16 | 9/16 | 2700 lbs | HZ41802 | Price |
| 0 - 3 | 1-15/16 | 9/16 | 3000 lbs | HZ41803 | Price |
| 0 - 4 | 2-5/16 | 5/8 | 3700 lbs | HZ41804 | Price |
| 0 - 6 | 2-15/16 | 5/8 | 4500 lbs | HZ41806 | Price |
| 0 - 8 | 3-7/16 | 3/4 | 5200 lbs | HZ41808 | Price |
| 1-1/2 - 10 | 3-3/4 | 3/4 | 6000 lbs | HZ41810 | Price |
| 1-1/8 - 12 | 3-7/8 | 3/4 | 8000 lbs | HZ41812 | Price |

## Heavy Duty C-Clamps



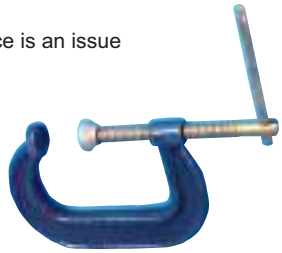
- Strong malleable steel frames
- T-handle with swivel pad
- Meets US Federal Specifications GGG C-404
- Zinc plated screw spindle
- Lifetime warranty

TEKTON

| | | | | Generic | | Tekton | |
|---|---|---|---|---|---|---|---|
| Max. Opening (in.) | Throat Depth (in.) | Spindle Dia. (in.) | Clamping Capacity | Order No. | Price | Order No. | Price |
| 4 | 4 | 1/2 | 1762 lbs | KP8320404 | Price | KP854017 | Price |
| 6 | 2-3/4 | 5/8 | 2312 lbs | KP8320406 | Price | KP854027 | Price |
| 8 | 3-3/8 | 5/8 | 2312 lbs | KP8320408 | Price | KP854031 | Price |
| 10 | 3-1/2 | 11/16 | 2378 lbs | - | - | KP854035 | Price |
| 12 | 3-5/8 | 11/16 | 2356 lbs | - | - | KP854040 | Price |

## Forged Deep Throat C-Clamps

- Designed for body welding
- Deep throat designed where clearance is an issue
- Heat treated, high grade steel
- Copper plated serrated pad



| Max. Opening (in.) | Throat Depth (in.) | Screw Dia. x OAL (in.) | Clamping Pressure | Order No. | Price |
|---|---|---|---|---|---|
| 2 | 2 | 1/2 x 4-7/8 | 3300 lbs | **SE60402** | Price |
| 3 | 2-5/16 | 1/2 x 6-1/8 | 3500 lbs | **SE60403** | Price |
| 4 | 2-11/16 | 5/8 x 7-7/16 | 4100 lbs | **SE60404** | Price |
| 6 | 3-3/4 | 5/8 x 9-9/16 | 5400 lbs | **SE60406** | Price |
| 8 | 4-3/8 | 3/4 x 12-7/16 | 5900 lbs | **SE60408** | Price |
| 10 | 5-1/4 | 3/4 x 12-7/16 | 6200 lbs | **SE60410** | Price |
| 12 | 5-3/4 | 7/8 x 12-7/8 | 9300 lbs | **SE60412** | Price |

## Wilton® Brute Force™ 100 Seriece C-Clamps

- For heavy industrial and construction job site demands
- 100 Series frames are forged of superior quality steels
- Forged square head spindle with rolled threads, black oxide coating for added strength
- Perma-pads® standard and black oxide coated
- Lifetime warranty



| Opening Cap. Max. (in.) | Throat Depth (in.) | Clamping Force | Spindle Dia. (in.) | Shipping Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 0 - 2 | 1-1/2 | 7500 lbs | 9/16 | 1.75 lbs | **HZ41102** | Price |
| 0 - 3 | 2 | 8750 lbs | 5/8 | 2.65 lbs | **HZ41103** | Price |
| 0 - 4 | 2-1/4 | 10000 lbs | 3/4 | 4.3 lbs | **HZ41104** | Price |
| 2 - 6 | 2-1/2 | 11250 lbs | 3/4 | 6.35 lbs | **HZ41106** | Price |
| 4 - 8 | 2-3/4 | 12500 lbs | 3/4 | 8.35 lbs | **HZ41108** | Price |
| 6 - 10 | 2-7/8 | 13750 lbs | 3/4 | 9.3 lbs | **HZ41110** | Price |
| 8 - 12 | 2-15/16 | 15000 lbs | 3/4 | 11.8 lbs | **HZ41112** | Price |

## 400 Series Deep Throat C-Clamps

- Industry's top choice for maintenance, production and repair operations
- Drop-forged steel frame, regular-duty with extra deep-throat
- Black oxide coated spindles and Perma-pad® resist corrosion, and are replaceable
- Innovative frame geometry for maximum strength
- V grooved anvil allows secure holding of all materials
- Lifetime Warranty



| Opening Cap. Max. (in.) | Throat Depth (in.) | Clamping Force | Spindle Dia. (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 2-1/8 | 2-1/4 | 3500 lbs | 9/16 | **HZ41402** | Price |
| 0 - 3 | 2-1/2 | 3500 lbs | 9/16 | **HZ41403** | Price |
| 0 - 4-1/4 | 3-1/4 | 6200 lbs | 3/4 | **HZ41404** | Price |
| 0 - 6-1/16 | 4-1/8 | 6600 lbs | 3/4 | **HZ41406** | Price |
| 0 - 8-1/4 | 5 | 6900 lbs | 3/4 | **HZ41408** | Price |
| 10-1/8 | 6 | 8000 lbs | 3/4 | **HZ41410** | Price |
| 2 - 12-1/4 | 6-5/16 | 9300 lbs | 7/8 | **HZ4114298** | Price |

## Black Oxide Deep Forge C-Clamps

- Drop-forged heat-treated steel frame
- Swivel pads
- Black oxide coated to resist corrosion



| Capacity (in.) | Throat Depth (in.) | Spindle Dia. (in.) | Load Test | Order No. | Price |
|---|---|---|---|---|---|
| 2 | 2 | 1/2 | 3500 lbs | **SG75402** | Price |
| 3 | 2-3/8 | 1/2 | 3500 lbs | **SG75403** | Price |
| 4 | 2-3/4 | 3/4 | 6200 lbs | **SG75404** | Price |
| 6 | 3-5/8 | 3/4 | 6900 lbs | **SG75406** | Price |
| 8 | 4-1/2 | 3/4 | 6900 lbs | **SG75408** | Price |
| 10 | 5-3/8 | 3/4 | 8000 lbs | **SG75410** | Price |
| 12 | 5-3/4 | 3/4 | 9300 lbs | **SG75412** | Price |

## PALMGREN Deep Throat C-Clamps

- Built from state-of-the-art research, computer aided design, and all new steel spring tempered frame geometry - coupled with an advanced heat treating process creates c-clamps that provide a secure and accurate hold
- Black-oxide spindles that resist wear and tear while impeding rust
- Innovative spring tempered steel frames with extra throat depth and high strength
- Through hardened steel spindles provide greater loading capabilites and longer service life
- Bodies have nickel and chrome plated finish, replaceable swivel pads
- Lifetime Warranty



New!

| Model No. | Max. Opening (in.) | Spindle Dia. (in.) | Throat Depth | Order No. | Price |
|---|---|---|---|---|---|
| 9629112 | 0 - 2 | 9/16 | 2 | **JB509629112** | Price |
| 9629113 | 0 - 3 | 9/16 | 2 | **JB509629113** | Price |
| 9629114 | 0 - 4 | 5/8 | 2-3 | **JB509629114** | Price |
| 9629116 | 0 - 6 | 3/4 | 8 | **JB509629116** | Price |
| 9629118 | 0 - 8 | 3/4 | 4 | **JB509629118** | Price |
| 9629120 | 0 - 10 | 7/8 | 4-1/2 | **JB509629120** | Price |
| 9629122 | 2 - 12 | 3/4 | 5 | **JB509629122** | Price |
| 9629124 | 2 - 14 | 7/8 | 6 | **JB509629124** | Price |
| 9629126 | 2 - 16 | 7/8 | 7 | **JB509629126** | Price |
| 9629152 | 0 - 2 | 9/16 | 2 | **JB509629152** | Price |
| 9629154 | 0 - 4 | 5/8 | 2-3/8 | **JB509629154** | Price |
| 9629156 | 0 - 6 | 3/4 | 3 | **JB509629156** | Price |

## PALMGREN Extended Deep Throat C-Clamps

- Built from state-of-the-art research, computer aided design, and all new steel spring tempered frame geometry - coupled with an advanced heat treating process creates c-clamps that provide a secure and accurate hold
- Black-oxide spindles that resist wear and tear while impeding rust
- Innovative spring tempered steel frames with extra deep throats
- Through hardened steel spindles provide greater loading capabilites
- Bodies have nickel and chrome plated finish, replaceable swivel pads
- Lifetime Warranty



New!

| Model No. | Max. Opening (in.) | Spindle Dia. (in.) | Throat Depth (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 9629222 | 0 - 2 | 1/2 | 4 | **JB509629222** | Price |
| 9629223 | 0 - 3 | 9/16 | 5 | **JB509629223** | Price |
| 9629224 | 0 - 4 | 5/8 | 6-1/4 | **JB509629224** | Price |
| 9629226 | 0 - 6 | 3/4 | 9-7/8 | **JB509629226** | Price |
| 9629228 | 0 - 8 | 3/4 | 13-3/4 | **JB509629228** | Price |
| 9629230 | 0 - 10 | 7/8 | 15-3/4 | **JB509629230** | Price |
| 9629233 | 0 - 3 | 9/16 | 5 | **JB509629233** | Price |
| 9629234 | 0 - 4 | 5/8 | 6-1/4 | **JB509629234** | Price |
| 9629238 | 0 - 6 | 3/4 | 13-3/4 | **JB509629238** | Price |
| 9629239 | 0 - 8 | 7/8 | 15-3 | **JB509629239** | Price |

## 540A Series C-Clamps



- 540A Series Carriage C-Clamps are ideal for light industrial, woodworking and repair applications
- Wilton's heaviest-duty carriage clamp available
- Frames made from high strength ductile iron casting
- Sliding pin (vise type) handle, single acme thread rolled spindle and oscillating ball and socket tip
- Lifetime warranty

| Max. Opening (in.) | Throat Depth (in.) | Spindle Dia. (in.) | Clamping Pressure | Order No. | Price |
|---|---|---|---|---|---|
| 0 - 2-1/2 | 1-3/4 | 1/2 | 1110 lbs | **SF305402** | Price |
| 0 - 3 | 1-7/8 | 1/2 | 1800 lbs | **SF305403** | Price |
| 0 - 4 | 2-1/16 | 5/8 | 2150 lbs | **SF305404** | Price |
| 0 - 5 | 2-1/2 | 5/8 | 2250 lbs | **SF305405** | Price |
| 0 - 6 | 2-3/4 | 5/8 | 2450 lbs | **SF305406** | Price |
| 0 - 8 | 3-1/4 | 3/4 | 2750 lbs | **SF305408** | Price |
| 0 - 10 | 3-5/8 | 7/8 | 2850 lbs | **SF305410** | Price |
| 0 - 12 | 3-5/8 | 7/8 | 2850 lbs | **SF305412** | Price |
| 0 - 14 | 3-3/4 | 7/8 | 2850 lbs | **SF305414** | Price |

## 400 Series Hi-Vis Safety Yellow C-Clamps



- High Visibility Yellow Conforms to OSHA Safety Color Standard for Physical Hazards Regulation # 1910.144
- V Grooved Anvil Feature Allows Secure Holding of All Materials Including Rounds, Squares and Flats.

| Max. Opening (in.) | Throat Depth (in.) | Spindle Dia. (in.) | Clamping Pressure | Order No. | Price |
|---|---|---|---|---|---|
| 0 - 2-1/8 | 2-1/4 | 9/16 | 3500 lbs | **HZ41402SF** | Price |
| 0 - 3 | 2-1/2 | 9/16 | 3500 lbs | **HZ41403SF** | Price |
| 0 - 4-1/4 | 3-1/4 | 3/4 | 6200 lbs | **HZ41404SF** | Price |
| 0 - 6-1/16 | 4-1/8 | 3/4 | 6600 lbs | **HZ41406SF** | Price |
| 0 - 8-1/4 | 5 | 3/4 | 6900 lbs | **HZ41408SF** | Price |
| 2 - 10-1/8 | 6 | 3/4 | 8000 lbs | **HZ41410SF** | Price |
| 2 - 12-1/4 | 6-5/16 | 7/8 | 9300 lbs | **HZ41412SF** | Price |

## 4400 Series Square Throat C-Clamps



- Square Throat Design: Up to 37% more throat depth than standard deep throat C Clamps
- PERMA-PADS®: Exclusive black oxide coated pad swivels and adapts to angular work pieces for tighter holding

| Max. Opening (in.) | Throat Depth (in.) | Spindle Dia. (in.) | Clamping Pressure | Order No. | Price |
|---|---|---|---|---|---|
| 0 - 4 | 4 | 3/4 | 4100 lbs | **HZ4114350** | Price |
| 0 - 6 | 5 | 3/4 | 5400 lbs | **HZ4114375** | Price |
| 2 - 8 | 6 | 3/4 | 5900 lbs | **HZ4114400** | Price |

## Classic 400 Series Columbian C-Clamps



- Patented design frame geometry allows for maximum strength with greater throat depth and lower weight
- Oscillating Head: High quality steel pad is built to last and provides firm gripping action on angular surfaces

| Max. Opening (in.) | Spindle Dia. (in.) | Throat Depth (in.) | Clamping Pressure | Order No. | Price |
|---|---|---|---|---|---|
| 0 - 2 | 1/2 | 2 | 3500 lbs | **SF30402** | Price |
| 0 - 3 | 5/8 | 2 3/8 | 3500 lbs | **SF30403** | Price |
| 0 - 4 | 3/4 | 2-3/4 | 6200 lbs | **SF30404** | Price |
| 0 - 6 | 3/4 | 3-5/8 | 6600 lbs | **SF30406** | Price |
| 0 - 8 | 3/4 | 4-1/2 | 6900 lbs | **SF30408** | Price |
| 0 - 10 | 7/8 | 5-3/8 | 8000 lbs | **SF30410** | Price |
| 0 - 12 | 7/8 | 5-3/4 | 9300 lbs | **SF30412** | Price |

## Deep-Reach Carriage C-Clamp



- Ductile Iron Frames
- Black oxide coating
- Oscillating head
- Sliding cross pin handle
- Lifetime warranty

| Type - 140 Series Carriage | | | | | |
|---|---|---|---|---|---|
| Max. Opening (in.) | Throat Depth (in.) | Spindle Dia. (in.) | Clamping Pressure | Order No. | Price |
| 0 - 2 | 1-1/8 | 5/16 | 800 lbs | **SF3041421** | Price |
| 0 - 2-1/2 | 1-7/16 | 3/8 | 850 lbs | **SF3041423** | Price |
| 2-1/2 | 2-1/2 | 3/8 | 1005 lbs | **SF3041426** | Price |
| 0 - 4 | 2-3/4 | 1/2 | 1535 lbs | **SF3041406** | Price |
| 0 - 8 | 4 | 3/4 | 1700 lbs | **SF3041409** | Price |

| Type - Deep Reach Carriage | | | | | |
|---|---|---|---|---|---|
| Max. Opening (in.) | Throat Depth (in.) | Spindle Dia. (in.) | Clamping Pressure | Order No. | Price |
| 0 - 1 | 3 | 1/4 | 350 lbs | **SF30251** | Price |
| 0 - 2 | 3-1/2 | 5/16 | 450 lbs | **SF3042520** | Price |
| 0 - 3 | 4-1/2 | 7/16 | 700 lbs | **SF3042530** | Price |

| Type - Xtra Deep Reach Carriage | | | | | |
|---|---|---|---|---|---|
| Max. Opening (in.) | Throat Depth (in.) | Spindle Dia. (in.) | Clamping Pressure | Order No. | Price |
| 2-1/2 | 4-3/4 | 7/16 | 1600 lbs | **SF30245** | Price |
| 2-1/2 | 6-1/4 | 7/16 | 1600 lbs | **SF30246** | Price |

## PALMGREN Square Throat C-Clamps



- Built from state-of-the-art research, computer aided design, and all new steel spring tempered frame geometry - coupled with an advanced heat treating process creates c-clamps that provide a secure and accurate hold
- Palmgren's all steel clamps are cost effective, versatile, durable, and long lasting
- Through hardened steel spindles provide greater loading capabilities and longer service life
- Black-oxide plated spindles resist wear and tear while impeding rust
- Bodies hava a nickel and chrome plated finish, replaceable swivel pads
- Lifetime Warranty

New!

| Model No. | Max. Opening (in.) | Spindle Dia. (in.) | Throat Depth (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 9629133 | 0 - 3 | 3/4 | 3 | **JB509629133** | Price |
| 9629134 | 0 - 4 | 3/4 | 4 | **JB509629134** | Price |
| 9629136 | 0 - 6 | 3/4 | 6 | **JB509629136** | Price |
| 9629138 | 0 - 8 | 3/4 | 8 | **JB509629138** | Price |
| 9629140 | 0 - 10 | 3/4 | 10 | **JB509629140** | Price |

## 540A Series Carriage C-Clamp Kit

- Ideal for light industrial, woodworking and repair applications
- Features a black oxide coating, oscillating head, and sliding cross pin handle
- This kit includes four of our most popular sizes - 540A Series C-Clamp 0 - 2-1/2" Opening Capacity, 540A Series C-Clamp 0 - 4" Opening Capacity, 540A Series C-Clamp 0 - 6" Opening Capacity and 540A Series C-Clamp 0 - 8" Opening Capacity
- Frames made from high strength ductile iron castings
- Sliding pin (vise type) handle, single acme thread rolled spindle and oscillating ball and socket tip
- Lifetime Warranty




| Max. Opening (in.) | Throat Depth (in.) | Spindle Dia. (in.) | Clamping Pressure (lbs) | Order No. | Price |
|---|---|---|---|---|---|
| 2-1/2, 4, 6, 8 | 1-3/4, 2-1/16, 2-3/4, 3-1/4 | 1/2, 5/8, 5/8, 3/4 | 1110; 2150; 2450; 2750 | **HZ4111115** | Price |

## Steel Clamps

MightyMini STEEL

- Sliding arm moves to position itself right next to your workpiece to support the Acme threaded screw
- By comparison, when a 3" C-clamp is used to do the job of a 1" C-clamp, the point of support for the screw does NOT move… leaving the extended screw to do all the work



| Nominal Size (in.) | Throat Depth (in.) | Nominal Clamping Cap. | Order No. | Price |
|---|---|---|---|---|
| 4 | 2-1/4 | 660 lbs | **SG75MMS4** | Price |
| 8 | 2-1/2 | 660 lbs | **SG75MMS8** | Price |

## SQ Series Regular Duty L-Clamps

- The fast action sliding arm mechanism can save up to 90% in labor cost.
- The tough, dependable Bessey quality makes the SQ the clamp of choice for the North American welding and Industrial workplace!



| Nominal Opening (in.) | Throat Depth (in.) | Clamping Pressure | Order No. | Price |
|---|---|---|---|---|
| 6 | 4-3/4 | 1330 lbs | **SG75SQ4** | Price |
| 8 | 4-3/4 | 2660 lbs | **SG75SQ8** | Price |
| 12 | 4-3/4 | 2660 lbs | **SG75SQ12** | Price |
| 20 | 4-3/4 | 2660 lbs | **SG75SQ20** | Price |

## All Steel L-Clamps

### With Patented 35° Tilt Morpad Assembly

- Nine times faster than a C-Clamp
- Easy to use, just slide moveable arm into position and tighten screw spindle
- Instant clamping at any opening
- No wasted set-up time
- Save 90% of clamping time versus the ordinary "C" Clamp



| Nominal Opening (in.) | Throat Depth (in.) | Clamping Pressure | Order No. | Price |
|---|---|---|---|---|
| 8 | 5-1/2 | 2660 lbs | **SG752400S8** | Price |
| 12 | 5-1/2 | 2660 lbs | **SG752400S12** | Price |
| 12 | 7 | 4880 lbs | **SG754800S12** | Price |
| 18 | 7 | 4880 lbs | **SG754800S18** | Price |
| 20 | 5-1/2 | 2660 lbs | **SG752400S20** | Price |
| 40 | 5-1/2 | 2660 lbs | **SG752400S36** | Price |
| 40 | 7 | 4880 lbs | **SG754800S36** | Price |
| 48 | 7 | 4880 lbs | **SG754800S48** | Price |
| 60 | 5-1/2 | 2660 lbs | **SG752400S60** | Price |
| 60 | 7 | 4880 lbs | **SG754800S60** | Price |

## Classic Series F-Clamp Kit

- Features four of our most popular sizes - MMS-4, 4" MINI F-CLAMP, MMS-8, 8" MINI F-CLAMP, 1800S-8, 8" REGULAR DUTY F-CLAMP and 1800S-12, 12" REGULAR DUTY F-CLAMP
- Built tough and are small enough to tackle smaller, more intricate jobs where a standard clamp is just too big
- Black oxide spindle resists wear and tear while impeding rust
- Drop forged arm provides minimal flex under heavy workloads
- Swivel pad centers on work piece for a sturdy hold
- Sturdy tommy bar is engineered for durability and comfort




| Clamping Cap. | Throat Depth (in.0 | Clamping Pressue | Order No. | Price |
|---|---|---|---|---|
| 4, 8, 8, 12 | 2-1/4, 2-1/4, 4-3/4, 5-1/2 | 400; 400; 1800; 1800 lbs | **HZ4111116** | Price |

## MMS-4, 4" Mini F-Clamps

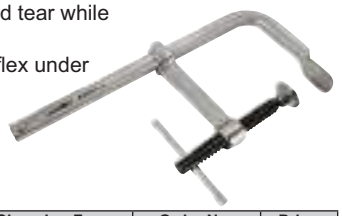
- Black oxide spindle resists wear and tear while impeding rust
- Drop forged arm provides minimal flex under heavy work loads
- Swivel pad centers on workpiece for a sturdy hold
- Sturdy tommy bar is engineered for durability and comfort
- Lifetime warranty



| Max. Opening (in.) | Throat Depth (in.) | Nominal Rail Size | Clamping Pressure | Order No. | Price |
|---|---|---|---|---|---|
| 4 | 2-1/4 | 7/16 x 7/32 | 400 lbs | **HZ4186000** | Price |
| 8 | 2-1/4 | 7/16 x 7/32 | 400 lbs | **HZ4186010** | Price |
| 12 | 2-1/4 | 7/16 x 7/32 | 400 lbs | **HZ4186020** | Price |

## Classic Series Light Duty F-Clamps

- Black oxide spindles resist wear and tear while impeding rust
- Drop forged arm provides minimal flex under heavy workloads
- Swivel pad centers on workpiece for sturdy hold
- Sturdy tommy bar engineered for durability and comfort



| Opening Cap. (in.) | Throat Depth (in.) | Clamping Force | Order No. | Price |
|---|---|---|---|---|
| 8 | 4 | 660 lbs | **HZ4186100** | Price |
| 8 | 4-3/4 | 1200 lbs | **HZ4186130** | Price |
| 12 | 4 | 660 lbs | **HZ4186110** | Price |
| 12 | 4-3/4 | 1200 lbs | **HZ4186140** | Price |
| 18 | 4 | 660 lbs | **HZ4186120** | Price |
| 18 | 4-3/4 | 1200 lbs | **HZ4186150** | Price |
| 24 | 4-3/4 | 1200 lbs | **HZ4186160** | Price |

## Classic Series Regular Duty F-Clamps

- Black oxide spindles resist wear and tear while impeding rust
- Drop forged arm provides minimal flex under heavy workloads
- Swivel pad centers on workpiece for sturdy hold
- Sturdy tommy bar engineered for durability and comfort



| Opening Cap. (in.) | Throat Depth (in.) | Clamping Force | Order No. | Price |
|---|---|---|---|---|
| 8 | 4-3/4 | 1800 lbs | **HZ4186200** | Price |
| 12 | 5-1/2 | 1800 lbs | **HZ4186210** | Price |
| 18 | 4-3/4 | 1800 lbs | **HZ4186220** | Price |
| 24 | 4-3/4 | 1800 lbs | **HZ4186230** | Price |

## PALMGREN L-Clamps

- Just slide the clamping arm to the work piece and tighten
- When the job is complete, simply loosen the spindle and slide the clamping arm back
- L-Clamps handle a wide variety or work sizes and shapes allowing you to clamp the work piece quicker while using fewer clamps on each job
- Lifetime Warranty

New!



| Max Opening (in.) | Throat Depth (in.) | Spindle Dia. (in.) | Clamping Pressure | Order No. | Price |
|---|---|---|---|---|---|
| 4 | 2-3/8 | 1/2 | 600 lbs | **JB509629304** | Price |
| 6 | 3-5/32 | 9/16 | 700 lbs | **JB509629306** | Price |
| 8 | 3-15/16 | 5/8 | 1000 lbs | **JB509629308** | Price |
| 10 | 3-15/16 | 5/8 | 1200 lbs | **JB509629310** | Price |
| 12 | 3-15/16 | 3/4 | 1200 lbs | **JB509629312** | Price |
| 16 | 3-15/16 | 3/4 | 1650 lbs | **JB509629316** | Price |

## PALMGREN Standard Duty L-Clamps

- Slide the clamping arm to the work piece and tighten
- When the job is complete, simply loosen the spindle and slide the clamping arm back
- Handles a wide variety or work sizes and shapes allowing you to clamp the work piece quicker while using fewer clamps
- Lifetime Warranty

New!



| Style - Heavy Duty | | | | | |
|---|---|---|---|---|---|
| Clamping Cap. (in.) | Spindle Dia. (in.) | Throat Depth (in.) | Clamp Pressure | Order No. | Price |
| 0 - 10 | 3/4 | 4-3/4 | 2300 lbs | **JB509629410** | Price |
| 0 - 12 | 3/4 | 4-3/4 | 2300 lbs | **JB509629412** | Price |
| 0 - 20 | 3/4 | 4-3/4 | 2300 lbs | **JB509629420** | Price |
| 0 - 8 | 3/4 | 4-3/4 | 2300 lbs | **JB509629408** | Price |
| 0- 24 | 3/4 | 4-3/4 | 2300 lbs | **JB509629424** | Price |

| Style - Standard Duty | | | | | |
|---|---|---|---|---|---|
| Clamping Cap. (in.) | Spindle Dia. (in.) | Throat Depth (in.) | Clamp Pressure | Order No. | Price |
| 4 | 1/2 | 2-3/8 | 600 lbs | **JB509629304** | Price |
| 6 | 9/16 | 3-5/32 | 700 lbs | **JB509629306** | Price |
| 8 | 5/8 | 3-15/16 | 1000 lbs | **JB509629308** | Price |

| Style - Standard Duty | | | | | |
|---|---|---|---|---|---|
| Clamping Cap. (in.) | Spindle Dia. (in.) | Throat Depth (in.) | Clamp Pressure | Order No. | Price |
| 10 | 5/8 | 3-15/16 | 1200 lbs | **JB509629310** | Price |
| 12 | 3/4 | 3-15/16 | 1200 lbs | **JB509629312** | Price |
| 16 | 3/4 | 3-15/16 | 1650 lbs | **JB509629316** | Price |

| Style - Super Duty | | | | | |
|---|---|---|---|---|---|
| Clamping Cap. (in.) | Spindle Dia. (in.) | Throat Depth (in.) | Clamp Pressure | Order No. | Price |
| 0 - 12 | 7/8 | 6-7/8 | 5000 lbs | **JB509629432** | Price |
| 0 - 16 | 7/8 | 6-7/8 | 5000 lbs | **JB509629434** | Price |
| 0 - 20 | 7/8 | 6-7/8 | 5000 lbs | **JB509629436** | Price |
| 0 - 24 | 7/8 | 6-7/8 | 5000 lbs | **JB509629438** | Price |

## Heavy Duty F-Clamps

- Features a clamping force of 2660 lbs, a heavy-duty replaceable pad and replaceable parts
- Heavy duty quick twist pads are simple and fast to replace
- Black oxide spindle resists wear and tear while impeding rust
- Drop forged arm provides minimal flex under heavy work loads
- Sturdy tommy bar is engineered for durability and comfort
- Replaceable parts to you save money
- Lifetime Warranty

New!



| Spindle Dia. (in.) | Throat Depth (in.) | Normal Rail Size (in.) | Clamping Cap. (in.) | Clamping Pressure (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 3/4 | 4-3/4 | 1-3/16 x 19/32 | 16 | 2660 lbs | **HZ4186660** | Price |
| 3/4 | 4-3/4 | 1-3/16 x 19/32 | 16 | 2660 lbs | **HZ4186660** | Price |
| 3/4 | 5-1/2 | 1-3/16 x 19/32 | 12 | 2660 lbs | **HZ4186650** | Price |
| 3/4 | 5-1/2 | 1-3/16 x 19/32 | 8 | 2660 lbs | **HZ4186640** | Price |
| 3/4 | 5-1/2 | 1-3/16 x 19/32 | 12 | 2660 lbs | **HZ4186650** | Price |
| 3/4 | 5-1/2 | 1-3/16 x 19/32 | 20 | 2660 lbs | **HZ4186670** | Price |
| 3/4 | 5-1/2 | 1-3/16 x 19/32 | 20 | 2660 lbs | **HZ4186670** | Price |
| 3/4 | 5-1/2 | 1-3/16 x 19/32 | 8 | 2660 lbs | **HZ4186640** | Price |
| 3/4 | 5-3/4 | 1-3/16 x 19/32 | 24 | 2660 lbs | **HZ4186680** | Price |
| 3/4 | 5-3/4 | 1-3/16 x 19/32 | 24 | 2660 lbs | **HZ4186680** | Price |

## BESSEY STB Series Heavy Duty L-Clamps

- "Super Tough" welding & industrial clamps with an economical, new heavy-duty pad and screw



| Nominal Opening (in.) | Throat Depth (in.) | Clamping Pressure | Order No. | Price |
|---|---|---|---|---|
| 12 | 7 | 4880 lbs | **SG75STB12** | Price |
| 18 | 7 | 4880 lbs | **SG75STB18** | Price |
| 36 | 7 | 4880 lbs | **SG75STB36** | Price |

## Heavy Duty Drop-Forged C-Clamps

- Drop forged
- Heat treated steel frame
- Used in most extreme class of industrial service
- Square set screw is heat treated
- Heaviest and strongest C-Clamp available



| Min. Opening (in.) | Max. Opening (in.) | Throat Depth (in.) | Thread Size (in.) | Clamping Pressure | Order No. | Price |
|---|---|---|---|---|---|---|
| 1/2 | 2-3/8 | 1-9/16 | 3/4-10 | 12500 lbs | **SE608202** | Price |
| 5/8 | 3-5/16 | 2 | 7/8-9 | 16250 lbs | **SE608203** | Price |
| 1 | 4-5/8 | 2-7/16 | 1-8 | 20000 lbs | **SE608204** | Price |
| 1-1/4 | 5-3/8 | 2-7/8 | 1-8 | 23800 lbs | **SE608205** | Price |
| 2-1/4 | 8-1/4 | 3 | 1-1/4-7 | 31250 lbs | **SE608208** | Price |
| 2-1/2 | 6-5/8 | 3-1/4 | 1-1/8-7 | 27500 lbs | **SE608206** | Price |
| 4-1/4 | 10-3/8 | 3-1/8 | 1-1/4-7 | 35000 lbs | **SE608210** | Price |

## Brute Force™ O Series C-Clamps

- Bridge / Boiler Clamps
- Highest clamping pressure ranging up to 40,000 lbs.
- Spindles full length, machined from a single piece of square, cold drawn steel, hardened and tempered
- Square spindle head stands up to heavy wrench tightening use



| Max. Opening (in.) | Throat Depth (in.) | Spindle Dia. (in.) | Clamping Pressure | Order No. | Price |
|---|---|---|---|---|---|
| 0 - 10-1/2 | 3-15/16 | 1-1/4 | 35000 lbs | **SF3020210** | Price |
| 0 - 12-3/8 | 4-1/4 | 1-1/4 | 40000 lbs | **SF3020211** | Price |
| 0 - 1-3/4 | 1-7/16 | 5/8 | 8750 lbs | **SF3020203** | Price |
| 0 - 1-3/8 | 1-3/32 | 7/16 | 5600 lbs | **SF3020202** | Price |
| 0 - 2 | 1-1/2 | 9/16 | 7500 lbs | **HZ41102** | Price |
| 0 - 2-3/8 | 1-7/8 | 3/4 | 12500 lbs | **SF3020204** | Price |
| 0 - 3 | 2 | 5/8 | 8750 lbs | **HZ41103** | Price |
| 0 - 3-5/16 | 2-5/16 | 7/8 | 16250 lbs | **SF3020205** | Price |
| 0 - 4 | 2-1/4 | 3/4 | 10000 lbs | **HZ41104** | Price |
| 0 - 4-1/2 | 2-3/4 | 1 | 20000 lbs | **SF3020206** | Price |
| 0 - 5-1/2 | 3-1/8 | 1 | 23800 lbs | **SF3020207** | Price |
| 0 - 6-1/2 | 3-3/8 | 1-1/8 | 27500 lbs | **SF3020208** | Price |
| 0 - 8-1/2 | 3-5/8 | 1-1/4 | 31250 lbs | **SF3020209** | Price |
| 2 - 6 | 2-1/2 | 3/4 | 11250 lbs | **HZ41106** | Price |
| 4 - 8 | 2-3/4 | 3/4 | 12500 lbs | **HZ41108** | Price |
| 6 - 10 | 2-7/8 | 3/4 | 13750 lbs | **HZ41110** | Price |
| 8 - 12 | 2-15/16 | 3/4 | 15000 lbs | **HZ41112** | Price |

## classiX™ International Line of Welding Clamps

- Provides the impetus for high-volume production runs
- Profiled rail, spatter resistant spindle and simplified heavy duty pad offer great value for industrial use



| Type - Heavy Duty Pad | | | | |
|---|---|---|---|---|
| Clamping Capacity (in.) | Throat Depth (in.) | Clamping Force | Order No. | Price |
| 7-1/2 | 4-3/4 | 2660 lbs | **SG75GSM20** | Price |
| 9 | 5-1/2 | 2660 lbs | **SG75GSM25** | Price |
| 12 | 4-3/4 | 1880 lbs | **SG75GSL30** | Price |
| 12 | 5-1/2 | 2660 lbs | **SG75GSM30** | Price |
| 16 | 5-1/2 | 2660 lbs | **SG75GSM40** | Price |
| 20 | 5-1/2 | 2660 lbs | **SG75GSM50** | Price |
| 24 | 4-3/4 | 1880 lbs | **SG75GSL60** | Price |
| 24 | 5-1/2 | 2660 lbs | **SG75GSM60** | Price |

| Type - Standard Pad | | | | |
|---|---|---|---|---|
| Clamping Capacity (in.) | Throat Depth (in.) | Clamping Force | Order No. | Price |
| 4 | 3-1/8 | 550 lbs | **SG75GS128K** | Price |
| 6 | 3-1/8 | 550 lbs | **SG75GS16K** | Price |
| 6 | 4-3/4 | 1000 lbs | **SG75GS1612K** | Price |
| 8 | 4 | 880 lbs | **SG75GS20K** | Price |
| 10 | 4-3/4 | 1000 lbs | **SG75GS25K** | Price |
| 12 | 5-1/2 | 1200 lbs | **SG75GS30K** | Price |
| 24 | 4-3/4 | 1200 lbs | **SG75GS60K** | Price |

## Spark-Duty™ Deep Reach Series Copper F-Clamps

### Extra Deep Reach

- Increased throat depth provides a deeper reach for unique projects
- Spark-Duty™ copper plated spindle extends the life of the clamp by protecting the spindle and pad from welding spatter
- Quick Twist pads simple and fast replaceable pads in v-groove or serrated surfaces
- Ergonomic Wilton-Grip® anti-fatigue grip provides comfort during repetitive clamping



| Opening Cap. (in.) | Throat Depth (in.) | Clamping Force | Order No. | Price |
|---|---|---|---|---|
| 12 | 8 | 1770 lbs | **HZ4186700** | Price |
| 24 | 8 | 1770 lbs | **HZ4186710** | Price |

## 400P Spark Duty™ C-Clamps

- Patented design, frame geometry allows for maximum strength with greater throat depth and lower weight
- PERMA-PADS® exclusive copper plated pad swivels and adapts to angular work pieces for tighter holding
- Same features As 400SEP without serrated pads and V Grooved Anvil



| Max. Opening (in.) | Throat Depth (in.) | Spindle Dia. (in.) | Clamping Pressure | Order No. | Price |
|---|---|---|---|---|---|
| 2-1/8 | 2-5/8 | 9/16 | 3500 lbs | **HZ4114215** | Price |
| 0 - 3 | 2-1/2 | 5/8 | 3500 lbs | **HZ4114229** | Price |
| 0 - 4-1/4 | 3-1/4 | 3/4 | 6200 lbs | **HZ41404P** | Price |
| 0 - 6-1/16 | 4-1/8 | 3/4 | 6600 lbs | **HZ4114257** | Price |
| 0 - 8-1/4 | 5 | 3/4 | 6900 lbs | **HZ4114271** | Price |
| 2 - 10-1/8 | 6 | 3/4 | 8000 lbs | **HZ4114285** | Price |
| 2 - 12-1/4 | 6-5/16 | 7/8 | 9300 lbs | **HZ4114299** | Price |

## Hi-Vis Deep Forge C-Clamps

- Drop-forged heat-treated steel frame
- Swivel pads
- High visibility clamp with copper coated spindle to resist weld splatter



| Capacity (in.) | Throat Depth (in.) | Spindle Dia. (in.) | Load Test | Order No. | Price |
|---|---|---|---|---|---|
| 2 | 2 | 1/2 | 3500 lbs | **SG75402VC** | Price |
| 3 | 2-3/8 | 1/2 | 3500 lbs | **SG75403VC** | Price |
| 4 | 2-3/4 | 3/4 | 6200 lbs | **SG75404VC** | Price |
| 6 | 3-5/8 | 3/4 | 6900 lbs | **SG75406VC** | Price |
| 8 | 4-1/2 | 3/4 | 6900 lbs | **SG75408VC** | Price |
| 10 | 5-3/8 | 3/4 | 8000 lbs | **SG75410VC** | Price |
| 12 | 5-3/4 | 3/4 | 9300 lbs | **SG75412VC** | Price |

## 400CS Hargrave Spark Duty™ C-Clamps

- High visibility yellow conforms to OSHA Safety color standard for physical hazards regulation # 1910.144
- Oscillating head high quality steel pad is built to last and provides firm gripping action on angular surfaces



| Max. Opening (in.) | Throat Depth (in.) | Spindle Dia. (in.) | Clamping Pressure | Order No. | Price |
|---|---|---|---|---|---|
| 2, 4, 6, 8 | 2, 2-3/4, 3-5/8, 4-1/2 | 1/2, 3/4, 3/4, 3/4 | - | **HZ4111114** | Price |
| 0 - 2 | 2 | 1/2 | 3500 lbs | **SF30402CS** | Price |
| 0 - 3 | 2-3/8 | 5/8 | 3500 lbs | **SF30403CS** | Price |
| 0 - 4 | 2-3/4 | 3/4 | 6200 lbs | **SF30404CS** | Price |
| 0 - 6 | 3-5/8 | 3/4 | 6600 lbs | **SF30406CS** | Price |
| 0 - 8 | 4-1/2 | 3/4 | 6900 lbs | **SF30408CS** | Price |
| 2 - 10 | 5-3/8 | 7/8 | 8000 lbs | **SF30410CS** | Price |
| 2 - 12 | 5-3/4 | 7/8 | 9300 lbs | **SF30412CS** | Price |

## T-Bar Morpad Welding Table Clamp

- Tempered profiled rail and drop forged sliding arm for strength
- Tempered spindle - particularly sturdy and wear resistant
- Long life due to heat resistant pressure plate with sintered steel insert, which can be tilted up to 35°

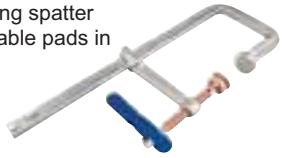


| Model No. | Hole Size | Clamping Capacity (in.) | Throat Depth (in.) | Clamping Force (in. | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| TWM28-30-12 | 28mm | 12 | 4-3/4 | 1400 lbs | 3.92 lbs | **SG75TWM283012** | Price |

## Spark-Duty™ J-Series Copper F-Clamps

### Built Tough For Irregular Shapes

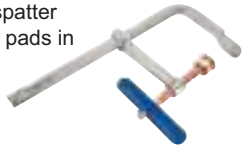
- J-Shaped rail steps over I-beams and irregular shapes
- Spark-Duty™ copper plated spindle extends the life of the clamp by protecting the spindle and pad from welding spatter
- Quick Twist pads simple and fast replaceable pads in v-groove or serrated surfaces
- Ergonomic Wilton-Grip® anti-fatigue grip provides comfort during repetitive clamping
- Lifetime Warranty



| Clamping Cap. (in.) | Throat Depth (in.) | Clamping Force | Nominal Rail Size (in.) | Spindle Dia. (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 10 | 4-3/4 | 1210 lbs | 7/8 x 3/8 | 5/8 | **HZ4186900** | Price |
| 12 | 5-1/2 | 2420 lbs | 1-3/16 x 9/16 | 3/4 | **HZ4186910** | Price |
| 20 | 7 | 4840 lbs | 1-9/16 x 3/4 | 7/8 | **HZ4186920** | Price |

## Spark-Duty™ 2000S Light Duty Series Copper F-Clamps

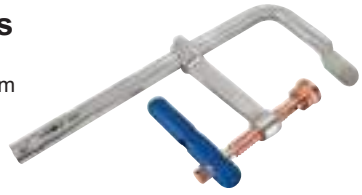
- Drop forged arm provides minimal flex under heavy workloads
- Spark-Duty™ copper plated spindle extends the life of the clamp by protecting the spindle and pad from welding spatter
- Quick Twist pads simple and fast replaceable pads in v-groove or serrated surfaces
- Ergonomic Wilton-Grip® anti-fatigue grip provides comfort during repetitive clamping
- Lifetime Warranty



| Clamping Cap. (in.) | Throat Depth (in.) | Clamping Force | Nominal Rail Size (in.) | Spindle Dia. (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 8 | 4-3/4 | 2000 lbs | 1-1/16 x 1/2 | 3/4 | **HZ4186300** | Price |
| 12 | 5-1/2 | 2000 lbs | 1-1/16 x 1/2 | 3/4 | **HZ4186310** | Price |
| 18 | 4-3/4 | 2000 lbs | 1-1/16 x 1/2 | 3/4 | **HZ4186320** | Price |
| 24 | 4-3/4 | 2000 lbs | 1-1/16 x 1/2 | 3/4 | **HZ4186330** | Price |

## Spark-Duty™ 2400S Regular Duty Series Copper F-Clamps

- Drop forged arm provides minimal flex under heavy workloads
- Spark-Duty™ copper plated spindle extends the life of the clamp by protecting the spindle and pad from welding spatter
- Quick Twist pads simple and fast replaceable pads in v-groove or serrated surfaces
- Ergonomic Wilton-Grip® anti-fatigue grip provides comfort during repetitive clamping
- Lifetime Warranty

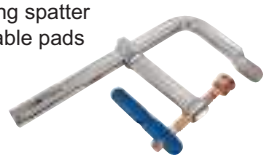


| Clamping Cap. (in.) | Throat Depth (in.) | Clamping Force | Nominal Rail Size (in.) | Spindle Dia. (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 8 | 5-1/2 | 2660 lbs | 1-3/16 x 19/32 | 3/4 | **HZ4186400** | Price |
| 12 | 5-1/2 | 2660 lbs | 1-3/16 x 19/32 | 3/4 | **HZ4186410** | Price |
| 16 | 4-3/4 | 2660 lbs | 1-3/16 x 19/32 | 3/4 | **HZ4186420** | Price |
| 20 | 5-1/2 | 2660 lbs | 1-3/16 x 19/32 | 3/4 | **HZ4186430** | Price |

| Clamping Cap. (in.) | Throat Depth (in.) | Clamping Force | Nominal Rail Size (in.) | Spindle Dia. (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 24 | 4-3/4 | 2660 lbs | 1-3/16 x 19/32 | 3/4 | **HZ4186440** | Price |
| 36 | 5-1/2 | 2660 lbs | 1-3/16 x 19/32 | 3/4 | **HZ4186450** | Price |
| 48 | 5-1/2 | 2660 lbs | 1-3/16 x 19/32 | 3/4 | **HZ4186460** | Price |
| 60 | 5-1/2 | 2660 lbs | 1-3/16 x 19/32 | 3/4 | **HZ4186470** | Price |

## Spark Duty™ Heavy Duty Copper F-Clamps

- Drop forged arm provides minimal flex under heavy workloads
- Spark-Duty™ copper plated spindle extends the life of the clamp by protecting the spindle and pad from welding spatter
- Quick Twist pads simple and fast replaceable pads in v-groove or serrated surfaces
- Ergonomic Wilton-Grip® anti-fatigue grip provides comfort during repetitive clamping
- L:ifetime Warranty



| Clamping Cap. (in.) | Throat Depth (in.) | Clamping Force | Nominal Rail Size (in.0 | Order No. | Price |
|---|---|---|---|---|---|
| 12 | 7 | 4880 lbs | 1-9/16 x 25/32 | **HZ4186500** | Price |
| 18 | 7 | 4880 lbs | 1-9/16 x 25/32 | **HZ4186510** | Price |
| 24 | 7 | 4880 lbs | 1-9/16 x 25/32 | **HZ4186520** | Price |
| 36 | 7 | 4880 lbs | 1-9/16 x 25/32 | **HZ4186530** | Price |
| 48 | 7 | 4880 lbs | 1-9/16 x 25/32 | **HZ4186540** | Price |
| 60 | 7 | 4880 lbs | 1-9/16 x 25/32 | **HZ4186550** | Price |

## "H" Series Pipe Clamps

Bessey® "H" Series pipe clamp has a rugged foot design that stabilizes the clamp in two dimensions giving dual-axis stability to the work piece.

- Extra high base provides hand clearance from the work surface
- Cast jaws for durability
- Smooth action spindle
- Patent Pending



| Black Pipe Dia. | Order No. | Price |
|---|---|---|
| 1/2 | **SG75BPCH12** | Price |
| 3/4 | **SG75BPCH34** | Price |

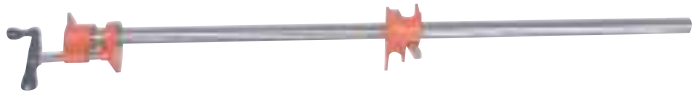
## Pipe Clamps

**PC Style:**

- Acme threaded spindle and multiple clutch plates
- Easty to assemble and a staple item for many workshops
- Plated spindles to prevent rust and corrosion
- Large clamping surface - positive grip
- Large handle - positive pressure
- Shown with pipe not included

**PC-2 Style:**

- Large clamping surface
- Acme threaded screw
- Hex head on spindle
- Virtually limitless clamping capacity determined by the length of pipe used



| Pipe Size (in.) | Approx. Weight | Order No. | Price |
|---|---|---|---|
| 1/2 | 2.12 lbs | **SG75PC122** | Price |
| 3/4 | 2.88 lbs | **SG75PC342** | Price |

## SPEEDJAW Adjustable Multi-Clamp

- Adjustable sizes from 0 to 5-3/4”
- Quick release
- Made from tough glass filled nylon materials
- Independent jaws allow clamping of almost any shape
- Swivel pads at he end of the jaws to insure a great grip

New!



| Order No. | Price |
|---|---|
| KE5394036 | Price |

## IRWIN QUICK-GRIP Bar Clamps



- Handle and jaws engineered for strength and lightweight
- High carbon, heat treated steel bar
- Soft, pliable pads protect fine finishes
- Quick release trigger

| Jaw Opening (in.) | Throat Depth (in.) | Order No. | Price |
|---|---|---|---|
| 6 | 3-1/4 | KX5000546† | Price |
| 6 | 3-1/4 | KX50506QC | Price |
| 12 | 3-1/4 | KX50512QC | Price |
| 18 | 3-1/4 | KX50518QC | Price |
| 24 | 3-1/4 | KX50524QC | Price |
| 36 | 3-1/4 | KX50536QC | Price |

**†Mini Bar Clamp**

## Spring Clamps



- Chrome plated steel constuction
- Cushioned non-slip handle grips
- Non-slip padded jaws grip work piece without damaging surface
- Tempered steel spring for consistent holding power

| Opening (in.) | OAL (in.) | Order No. | Price |
|---|---|---|---|
| 1 | 4 | SE75SC1 | Price |
| 1 | 4 | SE75SC1P† | Price |
| 2 | 6 | SE75SC2 | Price |
| 2 | 6 | SE75SC2P† | Price |

**† Set of 5**

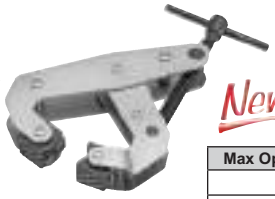
## IRWIN QUICK-GRIP Spring Clamps



- High-tech resin construction
- Non-marring pads protech workpiece
- Specially designed jaws hold odd-shaped workpieces
- Lifetime warranty

| Jaw Opening (in.) | Throat Depth (in.) | Order No. | Price |
|---|---|---|---|
| 1 | 1-1/2 | KX5058100 | Price |
| 2 | 2-1/4 | KX5058200 | Price |
| 3 | 3-1/4 | KX5058300 | Price |

## PALMGREN Cantilever Clamps



New!

- Clamping handle is always outside the work area, body plates are made from chrome-molybdenum alloy steel
- Provides best features of c-clamps and parallel clamps
- Floating jaws always stay parallel to the workpiece, free floating jaws adjust to un-parallel surfaces
- Will not walk off-center when pressure applied against the jaw because there is no unsupported screw or loose pad
- Lifetime Warranty

| Max Opening (in.) | Throat Depth (in.) | Clamp Force | Order No. | Price |
|---|---|---|---|---|
| 1 | .059 | 300 lbs | JB509629491 | Price |
| 2 | 1.300 | 800 lbs | JB509629492 | Price |
| 3 | 1.378 | 1500 lbs | JB509629493 | Price |
| 4-1/2 | 2.284 | 1700 lbs | JB509629494 | Price |
| 6 | 4.311 | 2000 lbs | JB509629496 | Price |

## SPEEDJAW Jaw Pads for Multi-Clamp

- 100% Compatible with Speedjaw clamps
- Easy slip-on design
- The perfect grip for your project

New!




| Description | Material | Order No. | Price |
|---|---|---|---|
| Curved Pads (Set of 2) | Glass-filled nylon | KE5393622 | Price |
| Non-Marring Pads (Set of 2) | Polyethene (PE) | KE5393623 | Price |
| Steel Pads (Set of 2) | Ductile iron | KE5393624 | Price |

## EZS Clamps



- Intelligent release mechanism
- Ergonomically shaped 2-component plastic handle with pump lever
- Soft pressure caps guarantee material protection and secure clamping

| Max. Opening (in.) | Throat Depth (in.) | Clamping Pressure | Order No. | Price |
|---|---|---|---|---|
| 6 | 3-1/2 | 445 lbs | SG75EZS158 | Price |
| 12 | 3-1/2 | 445 lbs | SG75EZS308 | Price |
| 18 | 3-1/2 | 445 lbs | SG75EZS458 | Price |
| 24 | 3-1/2 | 445 lbs | SG75EZS608 | Price |
| 36 | 3-1/2 | 445 lbs | SG75EZS908 | Price |

## Steel Spring Clamps



- Vinyl tips and handles prevent marring
- Heavy duty springs for firm grip
- Nickel plating resists corrosion

| Throat Depth (in.) | Clamping Capacity (in.) | Weight | Order No. | Price |
|---|---|---|---|---|
| 1 | 1-1/4 | .17 lbs | SG75XM3 | Price |
| 2 | 2-1/4 | .40 lbs | SG75XM5 | Price |
| 3 | 3-5/16 | .80 lbs | SG75XM7 | Price |
| 4 | 5 | 1 lb | SG75XM10 | Price |

## IRWIN QUICK-GRIP Quick-Grip® Handi-Clamp®



- Quick-Release™ trigger
- High-tech resin construction
- Specially designed jaws hold odd-shaped workpieces

| Clamping Capacity | Throat Depth (in.) | Order No. | Price |
|---|---|---|---|
| 1-1/2 | 1-1/2 | KX5059100CD | Price |
| 2 | 2 | KX5059200CD | Price |
| 4 | 3 | KX5059400CD | Price |

## KANT TWIST Kant-Twist Key Chain

### It Really Works!

- Maximum Opening 3/4”
- Throat Depth 3/8”

MADE IN THE USA



| Order No. | Price |
|---|---|
| SE64400KEY | Price |

## KANT TWIST Standard “T” Handle Style Clamps

- Multi-purpose clamp that combines the best features of an ordinary “C” clamp and parallel clamps
- Free floating jaws adjusts to unparallel surfaces
- Copper plated jaws and screws are ideal for welding
- Built in “V” blocks is perfect for holding round stock
- Cantilever acton provides 4:1 ratio

MADE IN THE USA



| Max. Opening (in.) | Throat Depth (in.) | Closed Depth (in.) | Holding Capacity | Order No. | Price |
|---|---|---|---|---|---|
| 1 | 3/8 | 1/2 | 350 lbs | **SE64401** | Price |
| 2 | 1-1/8 | 1-1/4 | 800 lbs | **SE64405** | Price |
| 3 | 1-1/4 | 1-3/4 | 1500 lbs | **SE64410** | Price |
| 6 | 2-1/8 | 3-3/8 | 2000 lbs | **SE64420** | Price |
| 9 | 3-3/8 | 5-1/4 | 2500 lbs | **SE64430** | Price |
| 12 | 12 | 7 | 6000 lbs | **SE64440** | Price |

## KANT TWIST Universal "T" Handle Stainless Style Clamps

- Designed for corrosive and magnetic problem areas
- Use of grinding work, around magnetic chucks
- 300 Series stainless steel
- Includes all other features of the Kant-Twist clamp

MADE IN THE USA

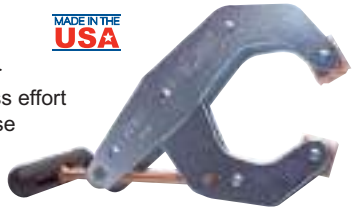


| Max. Opening (in.) | Throat Depth (in.) | Closed Depth (in.) | Holding Capacity | Order No. | Price |
|---|---|---|---|---|---|
| 2 | 1-1/8 | 1-1/4 | 700 lbs | **SE64505** | Price |
| 3 | 1-1/4 | 1-3/4 | 1200 lbs | **SE64510** | Price |
| 4-1/2 | 2-1/4 | 3 | 1500 lbs | **SE64515** | Price |

## KANT TWIST "T" Handle Style Clamps with Cushion Handles

- Comfortable grip for ease of use
- Makes repetitive use much easier
- Apply maximum pressure with less effort
- Cushion handle removes with ease

MADE IN THE USA



| Max. Opening (in.) | Throat Depth (in.) | Closed Depth (in.) | Holding Capacity | Order No. | Price |
|---|---|---|---|---|---|
| 1 | 3/8 | 1/2 | 350 lbs | **SE64401G** | Price |
| 2 | 1-1/8 | 1-1/4 | 800 lbs | **SE64405G** | Price |
| 2-1/2 | 2 | 1-13/16 | 700 lbs | **SE64407G†** | Price |
| 3 | 1-1/4 | 1-3/4 | 1500 lbs | **SE64410G** | Price |
| 4-1/2 | 2-1/4 | 3 | 1700 lbs | **SE64415G†** | Price |
| 6 | 2-1/8 | 3-3/8 | 2000 lbs | **SE64420G** | Price |
| 6 | 4-1/4 | 5-1/2 | 2000 lbs | **SE64421G†** | Price |

**†Deep throat**

## KANT TWIST Standard "No-Mar" Round Pad Style Clamps

- Round flat pads for soft or fine finishes
- Will not dig into soft wood, plastisc, aluminum, etc.
- Superior to “C” clamps
- Design brings the jaws together without the turning or twisting of screw-type clamps

MADE IN THE USA

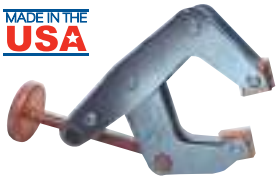


| Max. Opening (in.) | Throat Depth (in.) | Closed Depth (in.) | Holding Capacity | Order No. | Price |
|---|---|---|---|---|---|
| 1 | 7/8 | 1/2 | 350 lbs | **SE644014** | Price |
| 2 | 1-1/8 | 1-1/4 | 800 lbs | **SE644054** | Price |
| 3 | 1-1/4 | 1-3/4 | 1500 lbs | **SE644104** | Price |
| 4-1/2 | 2-1/4 | 3 | 1700 lbs | **SE644154** | Price |

## KANT TWIST Universal "Round" Handle Style Clamps

- Round handles provide an alternative to standard “T” handles
- Round handles provide the ability to more finely tighten the clamp pressure

MADE IN THE USA



| Max. Opening (in.) | Throat Depth (in.) | Closed Depth (in.) | Holding Capacity | Order No. | Price |
|---|---|---|---|---|---|
| 3/4 | 3/8 | 3/8 | 200 lbs | **SE64396R** | Price |
| 1 | 1/2 | 1/2 | 350 lbs | **SE64401R** | Price |
| 1-1/2 | 1-1/8 | 1 | 600 lbs | **SE64403R** | Price |
| 2 | 1-1/8 | 1-1/4 | 800 lbs | **SE64405R** | Price |

## KANT TWIST Deep Throat Jaw Opening Clamps

- Allows for a deeper grab on the clamped object
- Multi-purpose clamps combine the best features of rodinary “C” and parallel clamps
- Free-floating jaws adjust to un-parallel surfaces
- Plates are made of high tensile steel
- Eliminates distorting and twisting action of conventional clamps
- Copper plated jaws and screws are ideal for welding
- All clamps close completely

MADE IN THE USA



| Max. Opening (in.) | Throat Depth (in.) | Closed Depth (in.) | Holding Capacity | Order No. | Price |
|---|---|---|---|---|---|
| 2-1/2 | 2 | 1-13/16 | 700 lbs | **SE64407** | Price |
| 4-1/2 | 2-1/4 | 3-13/16 | 1700 lbs | **SE64415** | Price |
| 6 | 4-1/2 | 5-1/2 | 2000 lbs | **SE64421** | Price |
| 10 | 6 | 7 | 3500 lbs | **SE64435** | Price |

## KANT TWIST Quick-Acting Fixture Clamps

- Best for drill presses and shop machines
- For holding where thickness and surface are not exact from part to part
- Used for drill press, assembly molds, furniture, planners, vertical turrets, mills, woodworking, plastic tooling, and fixtures of all types



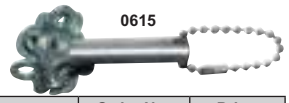




| Model No. | Max. Opening (in.) | Slot Width (in.) | Outer Edge Screws (in.) | Base Depth (in.) | Base Width (in.) | Height (in.) | Clamp Width (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 411 | 3 | 1.92 | 1-1/2 | 2-11/16 | 3-1/4 | 3-3/8 | 1-3/4 | **SE64411** | Price |
| 411-2 | 3-3/16 | T-Slot Mounting | - | 2-11/16 | 3-1/4 | 4-1/8 | 1-3/4 | **SE644112** | Price |
| 423 | 6 | 2.908 | 2-5/8 | 3-3/4 | 3-3/4 | 6-7/8 | 3-1/4 | **SE64423** | Price |

## Pocket Tools & Retrievers - Fixed Shaft

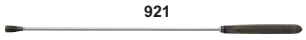



| Item | Dia. (in.) | Lift Capacity (lbs.) | Length (in.) | Description | Order No. | Price |
|---|---|---|---|---|---|---|
| GENERAL | 5/16 | 2.0 | 5-1/2 | A medium strong sturdy pick-up tool. | NE50386 | Price |
| MAG-MATE | 5/16 | 2.5 | 5-1/4 | Precision ground carbide tip scribe is reversible. Magnet located on the other end. | NE7010600 | Price |
| | 5/16 | 2.5 | 6 | Pen sized magnetic tool. Sturdy clip holds magnet firmly in pocket. | NE70906 | Price |
| | 3/8 | 4.0 | 2 | Key chain retriever. Powerful magnet, Aluminum rod. | NE700615 | Price |

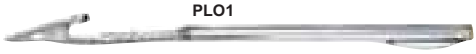
## Pocket Tools & Retrievers - Flexible/Bendable Shaft




| Item | Dia. (in.) | Lift Capacity (lbs) | Length (in.) | Description | Order No. | Price |
|---|---|---|---|---|---|---|
| PROTO | 1 | - | 13-1/2 | Spring loaded plunger actuates jaws at end of flexible casing. | KP4270295 | Price |
| | 1 | - | 23-1/2 | Spring loaded plunger actuates jaws at end of flexible casing. | KP4270300 | Price |
| | 1/2 | 1.5 | 19-1/2 | Push button allows reaching an object before energizing the magner. | KP4270335 | Price |
| | 1/2 | 3.0 | 24-1/2 | Push button allows reaching an object before energizing the magner. | KP4270340 | Price |
| GENERAL | 1/4 | 2.0 | 8-3/4 | Magnetic tool with locking pivot joint to pick-up iterms around corner, cushion grip handle. | NE50392 | Price |
| | 1/4 | 2.0 | 20 | Flexible magnetic pick-up tool; excellent for retrieving small steel parts. | NE50395 | Price |
| | 1/4 | 2.0 | 32"-Max | Flex-O-Stiff magnetic pick-up tool designed with flexible retriever arm. | NE50384N | Price |
| MAG-MATE | 3/8 | 3.0 | 20 | Flexible dual purpose, bend shaft to permanent position or remove wire to snake into position | NE70928S | Price |
| | 1/2 | 8.0 | 21 | Flexible retriever with fixed head and nonslip solvent-resistant comfort grip | NE70921 | Price |

## Pocket Tools & Retrievers - Telescoping Scaft







| Item | Dia. (in.) | Lift Capacity (lbs.) | Length (in.) | Description | Order No. | Price |
|---|---|---|---|---|---|---|
| PROTO | 1 | 1.5 | 16-3/4 to 26-3/4 Telescoping | All angle ball joint. | KP4270330 | Price |
| | 1 | 1.5 | 8 Fixed | All angle ball joint. | KP4270345 | Price |
| | 1/2 | 1.5 | 5-1/2 - 25-1/2 | Push button allows reaching an object before energizing the magnet. | KP4270370 | Price |
| | 1/2 | 16.0 | 8-1/4 - 30-1/4 | Push button allows reaching an object before energizing the magnet. | KP4270395 | Price |
| | 1/2 | 5.0 | 8-1/4 - 30-1/4 | Push button allows reaching an object before energizing the magnet. | KP4270390 | Price |
| PRM PRO | 3/4 | 8.0 | Extends to 33" | Telescoping Magnetic Pick-Up | KP8346501 | Price |
| GENERAL | 5/16 | 2.0 | 5-1/2 to 23-1/2 | High-power magnet with pivot joint, for hard to reach area, includes pocket clip. | NE50383NX | Price |
| | 3/4 | 10 | 6-1/2 to 27 | Telescoping stainless steel wand, magnetic pickup, Double ball joint connection | NE50759398 | Price |
| MAG-MATE | 5/16 | 2.0 | 5-1/2 to 25-1/2 | Stainless steel pen sized tool for tiny jobs. With pocket clip | NE70240N | Price |
| | 3/8 | 5.0 | 6-1/2 to 32 | Magnetic retriever w/fixed head and nonslip solvent resistant comfort grip | NE70923 | Price |
| | 1/2 | 7.5 | 17 to 26-1/2 | Double ball hinge head, Hex rod prevents magnet from swinging while in use | NE70927 | Price |
| | 1/2 | 12.0 | 13 to 26 | Double ball hinge head, Hex rod prevents magnet from swinging while in use | NE70931 | Price |
| | 5/8 | 7.0 | 6-1/2 to 32 | Magnetic retriever w/fixed head and nonslip solvent resistant comfort grip | NE70924 | Price |
| | 5/8 | 7.0 | 8 to 35 | Magnetic retriever w/single ball swivel head and nonslip solvent resistant comfort grip | NE70925 | Price |
| | 5/8 | 14.0 | 23-1/2 to 50 | Extra long, heavy duty magnetic retriever w/fixed head and nonslip solvent resistant comfort grip | NE70926 | Price |
| | 1-1/8 | 20.0 | 16-1/2 to 29 | Magnetic retriever w/fixed head and nonslip solvent resistant comfort grip | NE70990SM | Price |

## TITAN 3-in1 Flexible Lighted Retriever

- Overall length: 24”
- Flexible shaft for use in confined areas
- Adjustable retriever claw
- Inspection LED light
- Magnet holds up to 3 lbs
- Aluminum handle and head
- Steel and chrome plated flexible shaft

New!



| Order No. | Price |
|---|---|
| KP8211064 | Price |

## TITAN Magnetic Document Clips

### 2 Pc. Sets

New!

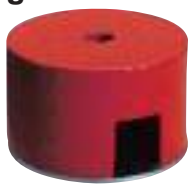


- Dimensions: 1-1/4 x 3-1/4” high x 1-3/4” deep
- Attach to tool bins, shop cabinets, file cabinets, refrigerators and other ferrous metal surfaces
- Holds manuals, calendars, notepads and more

| Color | Order No. | Price |
|---|---|---|
| Black | KP8211142 | Price |
| Chrome | KP8211143 | Price |
| Red | KP8211140 | Price |
| White | KP8211141 | Price |

## Button Type Alnico Magnets

- Button shaped magnet has almost unlimited applications
- Retrieves screws and steel parts
- Center hole in top for easy fastening



| Diameter (in.) | Height (in.) | pull (lbs.) | Cored Hole (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 1/2 | 3/8 | 1.5 | 1/8 | **NE50372A** | Price |
| 3/4 | 1/2 | 4 | 1/8 | **NE50372B** | Price |
| 1 | 5/8 | 6.5 | 3/16 | **NE50372C** | Price |
| 1-1/4 | 3/4 | 14 | 3/16 | **NE50372D** | Price |
| 1-1/2 | 7/8 | 18.5 | 1/4 | **NE50372E** | Price |

## Pot Type Alnico Magnets

- Strong magnet with insulating ring gives it the superior holding power of larger ones
- 1/4 x 20 thread hole for attaching to fixtures and machines



| | | | | General | | Quality Import | |
|---|---|---|---|---|---|---|---|
| Dia. (in.) | Pull (lbs.) | Weight (oz.) | Height (in.) | Order No. | Price | Order No. | Price |
| 11/16 | 6 | 6 | 5/8 | **NE50374A** | Price | **NE60431** | Price |
| 13/16 | 10 | 6 | 3/4 | **NE50374B** | Price | **NE60432** | Price |
| 1-1/16 | 18 | 12 | 1 | **NE50374C** | Price | **NE60433** | Price |
| 1-3/8 | 35 | 24 | 1-3/16 | **NE50374D** | Price | **NE60434** | Price |

## General Purpose Magnets

- Round and Rectangular
- Hold screws for assembling
- Clean up metal shavings around work area



REC134



RECHVY178

| Thickness (in.) | Width (in.) | Length (in.) | Shape | Order No. | Price |
|---|---|---|---|---|---|
| 5/32 | 3/4 | 1.00 | Rectangular | **NE70REC134** | Price |
| 3/16 | 11/16 | 11/16 | Round | **NE70RR34** | Price |
| 3/16 | 7/8 | 1.00 | Rectangular | **NE70RECM134** | Price |
| 3/8 | 7/8 | 1-7/8 | Rectangular | **NE70RECHVY178** | Price |

## Magnetic Blueprint Holders



15805



10800



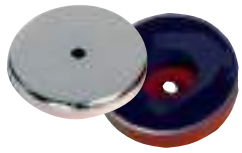
8606

| Shape - Rectangular | | | | | | |
|---|---|---|---|---|---|---|
| Max Holding Capacity (lbs.) | Height With Knob (in.) | Width (in.) | Length (in.) | Thickness (in.) | Order No. | Price |
| 11.5 | 1-3/8 | 1-3/8 | 2-3/8 | 9/16 | **JY608606** | Price |
| 19 | 1-3/8 | 1-5/8 | 2 | 9/16 | **NE7010800** | Price |

| Shape - Round | | | | | |
|---|---|---|---|---|---|
| Max Holding Capacity (lbs.) | Height With Knob (in.) | Dia. (in.) | Thickness (in.) | Order No. | Price |
| 7 | 11/16 | 1-13/64 | 3/16 | **NE7015795** | Price |
| 11 | 1-1/32 | 1-7/16 | 9/32 | **NE7015800** | Price |
| 19 | 1-1/16 | 2-1/32 | 5/16 | **NE7015805** | Price |
| 41.0 | 1-1/8 | 2-5/8 | 3/8 | **NE70PHMX2500** | Price |
| 47.5 | 1-3/16 | 3-3/16 | 7/16 | **NE70PHMX3000** | Price |

## Low Profile Cup Magnets

- Ideal for hanging signs, lights, etc. or retrieving steel items from tanks, vats & bins
- NE60656 has 10" x 24" threaded center hole for fastening with machine screw.
- NE60 models are painted red. All others are bright silver plated



| Diameter (in.) | Max Holding Capacity (lbs.) | Height (in.) | Magnet ID (in.) | Hole ID (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 1-7/32 | 7 | 3/16 | 1/4 | 1/8 | **NE7020010** | Price |
| 1-7/32 | 35 | 3/16 | 1/4 | 1/8 | **NE7020015** | Price |
| 1-13/32 | 11 | 9/32 | 3/8 | 3/16 | **NE7020020** | Price |
| 1-3/4 | 10 | 1/4 | 11/16 | 1/8 | **NE60656** | Price |
| 2 | 20 | 3/8 | 5/16 | 3/8 | **NE60657** | Price |
| 2-1/32 | 19 | 5/16 | 27/32 | 3/16 | **NE7020025** | Price |
| 2-1/32 | 47.5 | 5/16 | 7/16 | 3/16 | **NE7020030** | Price |
| 2-1/32 | 74 | 5/16 | 7/16 | 3/16 | **NE7020035** | Price |
| 2-5/8 | 41 | 3/8 | 1 | 9/32 | **NE7020040** | Price |
| 2-5/8 | 100 | 3/8 | 5/8 | 9/32 | **NE7020045** | Price |
| 2-3/4 | 35 | 7/16 | 15/16 | 3/8 | **NE60658** | Price |
| 2-7/8 | 45 | 3/8 | 1 | 9/32 | **NE7020050** | Price |
| 3-1/8 | 50 | 1/2 | 1-1/4 | 3/8 | **NE60659** | Price |
| 3-3/16 | 47.5 | 7/16 | 1-3/16 | 9/32 | **NE7020055** | Price |
| 4-29/32 | 95 | 11/32 | 1-3/4 | 1/2 | **NE7020060** | Price |

## MAG-MATE Magnetic Cup Assemblies

- Ideal for hanging signs, banners and temporary displays
- Bright plated cup, bolt and nuts
- Furnished with two nuts
- Low profile design



| Style - Cup Magnet with Adhesive Back | | | | | | |
|---|---|---|---|---|---|---|
| Magnet Width (in.) | Holding Value (lbs.) | Height (in.) | Bolt Length (in.) | Thread Size | Order No. | Price |
| 1.24 | 7 | 0.188 | 1 | 6-32 | **NE70MX1000ADH** | Price |
| 1.41 | 11 | 0.281 | 1 | 8-32 | **NE70MX1500ADH** | Price |
| 2.03 | 45 | 0.313 | Throttle | 10-24 | **NE70MX2000ADH** | Price |

| Style - Cup Magnet with Bolt and Two Nuts | | | | | | |
|---|---|---|---|---|---|---|
| Magnet Width (in.) | Holding Value (lbs.) | Height (in.) | Bolt Length (in.) | Thread Size | Order No. | Price |
| 1-9/64 | 11 | .281 | 1 | 8-32 | **NE70MX1500B** | Price |
| 2 | 100 | .375 | 1-3/4 | 1/4-20 | **NE70MX2508RB** | Price |
| 2 | 47.5 | .313 | 1-1/4 | 10-24 | **NE70MX2002RB** | Price |

| Style - Low Profile Cup Magnet with Bolts | | | | | | |
|---|---|---|---|---|---|---|
| Magnet Width (in.) | Holding Value (lbs.) | Height (in.) | Bolt Length (in.) | Thread Size | Order No. | Price |
| 1-1/4 | 7 | 3/16 | 1 | 6-32 | **NE7010200** | Price |
| 2-1/32 | 19 | 5/16 | 1-3/4 | 10-24 | **NE7010205** | Price |
| 2-1/4 | 5 | 3/16 | 1 | 5/16-18 | **NE7010210** | Price |
| 2-5/8 | 41 | 3/8 | 1-3/4 | 1/4-20 | **NE7010215** | Price |
| 3-1/8 | 47.5 | 7/16 | 1-3/4 | 1/4-20 | **NE7010220** | Price |

## MAG-MATE Cup Magnets with Clamps

- Low profile design is ideal for holding, hanging, mounting and more in difficult areas and positions
- Quickly installed and repositioned



| Style - 1 - Nickel Plated Clamp | | | | | |
|---|---|---|---|---|---|
| Hold (lbs) | Overall Height (in.) | Width Dia. (in.) | Opening (in.) | Order No. | Price |
| 7.0 | .88 | 1.24 | .19-.38 | **NE70MX1000NP01** | Price |
| 11.0 | 1.53 | 1.41 | .31-.75 | **NE70MX1500NP01** | Price |
| 19.0 | 2.31 | 2.03 | .63-1.25 | **NE70MX2000NP01** | Price |
| 41.0 | 2.50 | 2.63 | 1.00-1.88 | **NE70MX2500NP01** | Price |

| Style - 1 - Stainless Steel Clamp | | | | | |
|---|---|---|---|---|---|
| Hold (lbs) | Overall Height (in.) | Width Dia. (in.) | Opening (in.) | Order No. | Price |
| 7.0 | 1.09 | 1.24 | .38-.50 | **NE70MX1000SS01** | Price |
| 11.0 | 1.91 | 1.41 | .63-.88 | **NE70MX1500SS01** | Price |
| 11.0 | 2.03 | 1.41 | .88-1.13 | **NE70MX1500SS02** | Price |

| Style - 2 - Black Vinyl Coated C lamp | | | | | |
|---|---|---|---|---|---|
| Hold (lbs) | Overall Height (in.) | Width Dia. (in.) | Opening (in.) | Order No. | Price |
| 19.0 | 2.19 | 2.03 | 1.50-1.88 | **NE70MX2000VB02** | Price |

## MAG-MATE Rare Earth Magnets

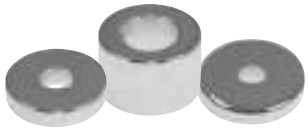
- Extremely powerful magnet is ideal for miniaturized applications
- Maximum Temperature 180°F (82°C)
- High resistance to demagnetization
- Nickel plated finish



| Dia. (in.) | Length (in.) | Max Holding Capacity (lbs.) | Useable Holding Value (lbs.) | Order No. | Price |
|---|---|---|---|---|---|
| 1/8 | .060 | .4 | .2 | **NE7010500** | Price |
| 1/8 | 1/4 | .6 | .3 | **NE7010503** | Price |
| 3/16 | .060 | 1.2 | .6 | **NE7010506** | Price |
| 7/32 | .100 | 2 | 1 | **NE7010509** | Price |
| 7/32 | 1/4 | 3 | 1.5 | **NE7010512** | Price |
| 7/32 | 1/2 | 3.6 | 1.8 | **NE7010515** | Price |
| 1/4 | .100 | 2 | 1 | **NE7010518** | Price |
| 1/4 | 1/8 | 2.4 | 1.2 | **NE7010521** | Price |
| 1/4 | 0.2 | 3.07 | 1.54 | **NE70NE2520NP42** | Price |
| 1/4 | .200 | 3.4 | 1.7 | **NE7010524** | Price |
| 1/4 | 1/4 | 3.35 | 1.67 | **NE70NE2525NP42** | Price |
| 1/4 | 1/4 | 3.6 | 1.8 | **NE7010527** | Price |
| 1/4 | 1/2 | 3.87 | 1.94 | **NE70NE2550NP42** | Price |
| 1/4 | 1/2 | 4.2 | 2.1 | **NE7010530** | Price |
| 21/64 | 1/4 | 6.2 | 3.1 | **NE7010533** | Price |
| 3/8 | .060 | 2 | 1 | **NE7010536** | Price |
| 3/8 | .100 | 4 | 2 | **NE7010539** | Price |
| 3/8 | 3/16 | 9 | 4.5 | **NE7010541** | Price |
| 3/8 | 1/4 | 6.86 | 3.43 | **NE70NE3725NP42** | Price |
| 3/8 | 1/4 | 9.2 | 4.6 | **NE7010544** | Price |
| 3/8 | 3/8 | 7.96 | 3.98 | **NE70NE3737NP42** | Price |
| 3/8 | 3/8 | 11.4 | 5.7 | **NE7010547** | Price |
| 3/8 | 1/2 | 8.5 | 4.25 | **NE70NE3750NP42** | Price |
| 3/8 | 1/2 | 13.4 | 6.7 | **NE7010550** | Price |
| 1/2 | .060 | 6 | 3 | **NE7010553** | Price |
| 1/2 | 1/8 | 6.08 | 3.04 | **NE70NE5012NP42** | Price |
| 1/2 | 1/8 | 8 | 4 | **NE7010556** | Price |
| 1/2 | 3/16 | 11.4 | 5.7 | **NE7010559** | Price |
| 1/2 | .200 | 12 | 6 | **NE7010562** | Price |
| 1/2 | 1/4 | 10.88 | 5.44 | **NE70NE5025NP42** | Price |
| 1/2 | 1/4 | 13 | 6.5 | **NE7010565** | Price |
| 1/2 | 3/8 | 17.8 | 8.9 | **NE7010568** | Price |
| 1/2 | 1/2 | 14.66 | 7.33 | **NE70NE5050NP42** | Price |
| 1/2 | 1/2 | 22.4 | 11.2 | **NE7010571** | Price |
| 3/4 | 1/4 | 21.4 | 10.7 | **NE70NE7525NP35** | Price |
| 3/4 | 3/8 | 24 | 12 | **NE70NE7537NP42** | Price |
| 3/4 | 3/8 | 27 | 13.5 | **NE70NE7537NP35** | Price |
| 3/4 | 1/2 | 44 | 22.0 | **NE70NE7550NP35** | Price |

## MAG-MATE Rare Earth Ring Magnets

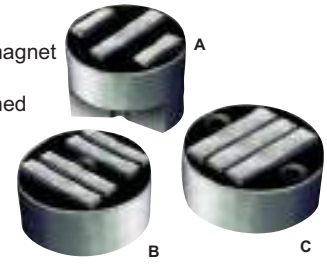
- Extremely powerful
- Ideal for small applications
- Maximum temperature 180°F (82°C)
- High resistance to demagnetization
- Nickel plated finish



| Dia. (in.) | Length | Holding Capacity (lbs) | Order No. | Price |
|---|---|---|---|---|
| 1/4 | .060 | .20 | **NE70NE25NP35** | Price |
| 3/8 | .100 | 2.0 | **NE70NE37NP35** | Price |
| .365 | 1/4 | 4.2 | **NE70NE36NP35** | Price |
| 7/8 | .200 | 19 | **NE70NE87NP35** | Price |

## MAG-MATE Rare Earth Exposed Pole Magnets

- Rare Earth Neodymium 3 & 4-Pole magnet in an aluminum insulated cup
- Extended poles can be lightly machined
- Can be press fit or use hole for mounting. +/- .008" diameter & +/- .015" length
- Maximum temperature 180°F (82°C)




| Dia. (in.) | Length (in.) | Thread Size | Depth (in.) | Pull (lbs.) | Style | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 2 | 1 | 1/4-Flat | - | 60 | B | **NE70C4H2004** | Price |
| 3 | 1 | 1/4-Flat | - | 145 | C | **NE70C5H3004** | Price |
| 1-1/4 | 3/4 | 5/16-18 | 1/4 | 26 | A | **NE70N3T1252** | Price |

## Rare Earth Flush Face Magnets

- **A:** Rare Earth Neodymium 1-Pole magnet in an aluminum insulated cup. Powerful compact magnet that can be press fit or use tapped hole for mounting. +/- .003" diameter & .015" length. Maximum temperature 180°F (82°C).
- **B:** Rare Earth Neodymium Island 2-Pole magnet in a steel cup. Ideal for shallow fixtures. Cannot be press fit without additional insulation. Use tapped hole for mounting. +/- .005" diameter & +/- .015" length. Maximum temperature 180°F (82°C).







| Dia. (in.) | Length (in.) | Thread Size | Thread Depth (in.) | Useable Holding Value (lbs.) | Style | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 1/4 | 1/2 | 6-32 | 1/4 | .25 | A | **NE7010900** | Price |
| 3/8 | 1/2 | 8-32 | 1/4 | 1.3 | A | **NE7010905** | Price |
| 3/8 | 1/2 | 8-32 | .085 | 3 | B | **NE7010400** | Price |
| 1/2 | 1/2 | 10-24 | 1/4 | 2.65 | A | **NE7010910** | Price |
| 1/2 | 1/2 | 10-24 | .150 | 8 | B | **NE7010405** | Price |
| 5/8 | 1/2 | 10-24 | 1/4 | 4.35 | A | **NE7010915** | Price |
| 3/4 | 1/2 | 10-24 | 1/4 | 6 | A | **NE7010920** | Price |
| 3/4 | 1/2 | 10-24 | .150 | 22 | B | **NE7010410** | Price |
| 1 | 1/2 | 1/4-20 | 1/4 | 7.5 | A | **NE7010925** | Price |
| 1 | 1/2 | 1/4-20 | .150 | 46 | B | **NE7010415** | Price |
| 1-1/4 | 1/2 | 5/16-18 | .150 | 50 | B | **NE7010425** | Price |

## MAG-MATE Multi-Purpose Magnets - Ceramic & Rare Earth

- Two-Pole Ceramic
- Effective holding against shear force
- High impact epoxy encapsulated
- Aluminum insulated
- Mounting holes can be drilled at either end of magnet



| Max. Holding Capacity (lbs.) | Width (in.) | Height (in.) | Length (in.) | Bar Length (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 45 | 1 | 1-1/4 | 4-1/2 | 2 | **NE7010250** | Price |
| 65 | 1 | 1-1/4 | 4-1/2 | 2 | **NE70AC2102** | Price |

## GENERAL Flexible Magnetic Strip

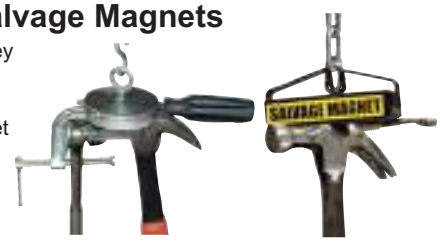
- Our flexible magnetic strip with adhesive backing adheres to most smooth surfaces
- Holds small metal objects
- Easily cut to desired length with scissors or knife



| Size | Order No. | Price |
|---|---|---|
| 1" x 10' | **NE50369** | Price |

## MAG-MATE Salvage Magnets

- Retrieves tools, parts, key rings, fishing tackle and more
- Powerful ceramic magnet
- Tools NOT included




| Holding Capacity (lbs.) | Mag Size (in.) | Weight (lbs.) | Order No. | Price |
|---|---|---|---|---|
| 35.0 | 3-1/2 dia. | 1.07 lbs | **JY608402** | Price |
| 50.0 | 6 x 1-7/8 | 2.34 lbs | **JY608401** | Price |

## Magnetic Parts Trays - Round & Rectangle



- Polished stainless steel tray
- Round diameter: 6", deep: 1-1/2" or rectangle 9-1/2" x 5-1/2"
- Strong magnet with rubber protective cover won't scratch painted surfaces
- Magnet attaches to car hoods or fenders for convenient storage of parts, bolts, nuts, screws, and even small wrenches

| Item | Size (in.) | Order No. | Price |
|---|---|---|---|
| PRM PRO | 5-1/2 x 1-1/8 | KP8345020 | Price |
| TEKTON | 9-1/2 x 5-1/2 | KP851903 | Price |
| | 6 x 1-1/2 | KP8567440 | Price |

## TITAN Rectangular Magnetic Parts Tray



- 6-1/2" x 14" Stainless steel dish - 1" deep
- Perfect for holding pars, hardware and fasteners in place
- Sticks to any ferrous metal surfaces - it even works upside down
- Non marring vinyl magnetic base

| Order No. | Price |
|---|---|
| KP8221263 | Price |

## TITAN Square Magnetic Parts Tray



- Size: 10-1/2" x 11-1/2" - 1" deep
- Stainless steel dish
- Perfect for holding parts, hardware and fasteners in place
- Sticks to any ferrous metal surfaces
- Non-marring rubber covered magnetic base prevents scratching

| Order No. | Price |
|---|---|
| KP8221262 | Price |

## Magnetic Retrievers



- Designed with a rare earth magnet 6 times the power of a regular magnet
- 16" & 36" sizes available with a 26 oz. dump shipped out
- Both sizes 1" diameter with a magnetic field of 7-1/2"



| Item | Length (in.) | Order No. | Price |
|---|---|---|---|
| DYSS | 16 | SG75MW1 | Price |
| MAG-MATE | 16 | NE7020125 | Price |
| | 36 | NE7020150 | Price |

## MAG-MATE Magnetic Shop Sweeper

- Works on hard floors or carpeted areas
- This sweeper offers the ability to clean right up to the edge of walls or machines and into corners with its unique wheel design
- 3/4" Clearance height
- EZ-Cleaning magnet
- 38" Long handle

MADE IN THE USA



| Length (in.) | Width (in.) | Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 19 | 3/4 | 52 | 7 lbs | NE70SS1800 | Price |

## TITAN Magnetic Strainer



New!

- 10-1/2" diameter x 3-1/2" deep
- Great for collecting small metal items such as tools, bolts, nails, screws, and fasteners
- Anti-rust, durable, stainless steel strainer is perfect for washing dirty tools
- Tools can be attracted firmly during flushing
- Rubber coated magnet prevents scuffing and scratching surfaces

| Order No. | Price |
|---|---|
| KP8211180 | Price |

## STEELMAN PRO Magnetic Lug Bucket

New!



- SECURE MOUNTING - Bucket mounts securely on tool boxes, lifts, tire machines, and almost any metal surface
- RUGGED POLYPROPYLENE - Rugged polypropylene construction helps absorb impacts
- POWERFUL MAGNETS - Three high-strength neodymium magnets hold up to 10 pounds of parts and components
- 6 MAGNET POSITIONS - 6 total top and side magnet positions allow for multiple mounting configurations
- GROOVED DIVIDERS - Grooved dividers help separate parts while working

| Order No. | Price |
|---|---|
| KE5379011 | Price |

## TITAN Collapsible Magnetic Parts Tray



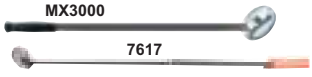
New!

- Size: 2 to 5"
- Perfect for holding small parts, hardware and fasteners in place
- Sticks to any ferrous metal surface
- Rubber covered prevents scratching

| Order No. | Price |
|---|---|
| KP8221270 | Price |

## Long Reach Magnetic Retrievers

- Tekton has Telescoping Shaft that compact to 21" for storage
- Mag-Mate is made in USA
- World Class is manually operated, Head: 1" diameter; Attracts items up to 11 lbs in weight
- PRM PRO: Powerful Rare Earth magnet material. Rare Earth tools have a maximum temperature of 180°F (82°C)










| Item | Holding Capacity (lbs.) | Handle Length (in.) | Magnet Dia. (in.) | Handle Angle | Order No. | Price |
|---|---|---|---|---|---|---|
| WORLD CLASS QUALITY | 11 | 9 | 1 | Straight | JN6031101 | Price |
| MAG-MATE | 12.0 | 48 | 1-3/8 | Adjustable | NE70COR12 | Price |
| | 35.0 | 48 | 2-1/2 | Adjustable | NE70COR35 | Price |
| | 47.5 | 38 | 3-1/4 | 45° | NE70MX3000 | Price |
| PRM PRO | 50.0 | 21 to 37 | 3-1/4 | 90° | KP8346502 | Price |

## MAG-MATE Alnico Magnet Material



- Ideal for high heat applications
- Maximum temperature 800°F (427°C)
- Tolerance ±0.005" on all dimensions

| Shape - Cylindrical | | | | |
|---|---|---|---|---|
| Hold (lbs) | Dia. (in.) | Length (in.) | Order No. | Price |
| 1.125 | 1/4 | 2 | **NE70A5RC025X200** | Price |
| 3.0 | 3/8 | 2 | **NE70A5RC037X200** | Price |
| 4.0 | 1/2 | 3 | **NE70A5RC050X300** | Price |
| 6.0 | 7/8 | 3 | **NE70A5RC087X300** | Price |

| Shape - Rectangular | | | | | |
|---|---|---|---|---|---|
| Hold (lbs) | Thickness (in.) | Width (in.) | Length (in.) | Order No. | Price |
| .75 | .250 | 1/4 | 1 | **NE70ABAR025** | Price |
| 2.0 | .375 | 3/8 | 1-1/2 | **NE70ABAR037** | Price |
| 4.5 | 1/2 | 1/2 | 2 | **NE70ABAR050** | Price |

## MAG-MATE Ceramic Magnet Material



- Low cost, high energy material
- Performs best at temperatures below 480°F (249°C)
- Difficult to grind, machine or drill and can't be E.D.M.'d
- Can be cut with a diamond wheel
- Tolerance ±2% on O.D. length & width ±.005" on thickness

| Style - Rectangular | | | | | | |
|---|---|---|---|---|---|---|
| Hold (lbs) | Thickness (in.) | Length | Grade | Width | Order No. | Price |
| 5.0 | 1/4 | 2 | 8 | 1 | **NE70250X1X2C8** | Price |
| 6.0 | .375 | 1-3/4 | 8 | 7/8 | **NE705C458** | Price |
| 7.0 | 1/2 | 2 | 8 | 1 | **NE70500X1X2C8** | Price |
| 9.0 | 3/4 | 2 | 8 | 1 | **NE70750X1X2C8** | Price |
| 11.0 | 1 | 2 | 8 | 1 | **NE701X1X2C8** | Price |
| 15.0 | 1 | 2 | 8 | 2 | **NE701X2X2C8** | Price |
| 23.5 | 1 | 6 | 8 | 4 | **NE701X4X6C8** | Price |

| Style - Ring | | | | | | |
|---|---|---|---|---|---|---|
| Hold (lbs) | Thickness (in.) | Hole ID (in.) | Dia. | Grade | Order No. | Price |
| .36 | .250 | 0.271 | 3/4 | 8 | **NE70F1409** | Price |
| .75 | .431 | 0.885 | 1.230 | 8 | **NE70F1407** | Price |
| .84 | .187 | 0.705 | 1.623 | 8 | **NE70F1406** | Price |
| 3.5 | .250 | 0.705 | 1.723 | 8 | **NE70F1405** | Price |
| 5.5 | .330 | 1.250 | 2.825 | 8 | **NE70431005** | Price |
| 9.5 | .590 | 1.203 | 2.800 | 8 | **NE70710006** | Price |

## MAG-MATE Polymagnet Rare Earth Discs



- Max-Attach Polymagnets
- Unique possibilites compared to conventionally magnetized magnets
- Particular magnetic function is encoded into the magnet, focusing the magnetic field for better magnet on metal performance
- Delivers much greater shear strength and holding power than conventionaly magnets of the same size and grade for outstanding performance in standard applications such as magnetic hooks and hangers, magnetic whiteboards, and magnetic paint or primer

| Style - Adhesive Back | | | | |
|---|---|---|---|---|
| Dia. (in.) | Length (in.) | Approx. Pull (lbs) | Order No. | Price |
| 1 | 1/8 | 41.44 | **NE70CMP10012P1A** | Price |
| 1 | 1/16 | 18.36 | **NE70CMP10006P1A** | Price |
| 1 | 3/16 | 43.5 | **NE70CMP10018P2A** | Price |
| 1-1/2 | 1/8 | 85 | **NE70CMP15012P1A** | Price |

| Style - Plain Back | | | | |
|---|---|---|---|---|
| Dia. (in.) | Length (in.) | Approx. Pull (lbs) | Order No. | Price |
| 1/2 | 1/8 | 8.7 | **NE70CMP5012P1N3** | Price |
| 1/2 | 1/8 | 10.5 | **NE70CMP5012P1N4** | Price |
| 1/2 | 3/16 | 9.51 | **NE70CMP5018P2N3** | Price |
| 1/2 | 3/16 | 11.4 | **NE70CMP5018P2N4** | Price |
| 3/4 | 1/8 | 20.6 | **NE70CMP7512P1N4** | Price |
| 3/4 | 1/16 | 17 | **NE70CMP7506P1N4** | Price |
| 1 | 1/8 | 41.44 | **NE70CMP10012P1N** | Price |
| 1 | 1/16 | 18.36 | **NE70CMP10006P1N** | Price |
| 1 | 3/16 | 43.5 | **NE70CMP10018P2N** | Price |
| 1-1/2 | 1/8 | 85 | **NE70CMP15012P1N** | Price |

## MAG-MATE Rectangular Rare Earth Magnets



- Max-Attach Polymagnets
- Unique possibilites compared to conventionally magnetized magnets
- Particular magnetic function is encoded into the magnet, focusing the magnetic field for better magnet on metal performance
- Delivers much greater shear strength and holding power than conventionaly magnets of the same size and grade for outstanding performance in standard applications such as magnetic hooks and hangers, magnetic whiteboards, and magnetic paint or primer

| Style - Adhesive Back | | | | | |
|---|---|---|---|---|---|
| Width (in.) | Length (in.) | Thickness (in.) | Approx. Pull (lbs) | Order No. | Price |
| 1/2 | 1/2 | 1/8 | 14.6 | **NE70CMP010505P** | Price |
| 1/2 | 1 | 1/8 | 19 | **NE70CMP010510P** | Price |
| 1 | 1 | 1/8 | 44.31 | **NE70CMP011010P** | Price |
| 1 | 1-1/2 | 3/16 | 69 | **NE70CMP181510** | Price |
| 1-1/2 | 1-1/2 | 1/8 | 96 | **NE70CMP011515P** | Price |

| Style - Plain Back | | | | | |
|---|---|---|---|---|---|
| Width (in.) | Length (in.) | Thickness (in.) | Approx. Pull (lbs) | Order No. | Price |
| 1/2 | 1/2 | 1/8 | 14.6 | **NE70CMP010505P1** | Price |
| 1/2 | 1 | 1/8 | 19 | **NE70CMP010510P1** | Price |
| 1 | 1 | 1/8 | 44.31 | **NE70CMP011010P1** | Price |
| 1 | 1-1/2 | 3/16 | 69 | **NE70CMP181510P2** | Price |
| 1 | 1-1/2 | 3/16 | 72 | **NE70CMP181510P** | Price |
| 1-1/2 | 1-1/2 | 1/8 | 96 | **NE70CMP011515P1** | Price |

## MAG-MATE Rare Earth Magnets



- Rare Earth Ring Magnets
- Extremely powerful
- Ideal for small applications
- Maximum temperature 180°F (82°C)
- High resistance to demagnetization
- Nickel plated finish

| Shape - Rectangular | | | | | | |
|---|---|---|---|---|---|---|
| Width | Length (in.) | Thickness (in.) | Holding Cap. (lbs) | Useable Holding Value (lbs) | Order No. | Price |
| 1/2 | 2 | 1/4 | 25.02 | 12.51 | **NE70NE2550200NP** | Price |
| 1 | 1-1/2 | .180 | 22.49 | 11.25 | **NE70NEO316RECTN** | Price |
| 1 | 2 | 1/4 | 30.6 | 15.3 | **NE70NE25100200N** | Price |

| Shape - Square | | | | | | |
|---|---|---|---|---|---|---|
| Width | Length (in.) | Thickness (in.) | Holding Cap. (lbs) | Useable Holding Value (lbs) | Order No. | Price |
| 1/4 | 1/4 | .100 | 1.76 | 0.88 | **NE70NE012525NP3** | Price |
| 1/2 | 1/2 | 1/2 | 15.59 | 7.8 | **NE70NE505050NP3** | Price |
| 3/4 | 3/4 | 1/4 | 18.28 | 9.14 | **NE70NE257575NP3** | Price |

## MAG-MATE Polymagnet Rare Earth Rings



- Max-Attach Polymagnets
- Unique possibilites compared to conventionally magnetized magnets
- Particular magnetic function is encoded into the magnet, focusing the magnetic field for better magnet on metal performance
- Delivers much greater shear strength and holding power than conventionaly magnets of the same size and grade for outstanding performance in standard applications such as magnetic hooks and hangers, magnetic whiteboards, and magnetic paint or primer

| Style - Adhesive Back | | | | |
|---|---|---|---|---|
| Outer Dia. (in.) | Thickness (in.) | Hold (lbs) | Order No. | Price |
| 1 x .1975 | 1/8 | 36.85 | **NE70CMP101912P** | Price |
| 1-1/2 x 1/8 | 1/8 | 74.8 | **NE70CMP151212P** | Price |

| Style - Plain Back | | | | |
|---|---|---|---|---|
| Outer Dia. (in.) | Thickness (in.) | Hold (lbs) | Order No. | Price |
| 1 x .1975 | 1/8 | 36.85 | **NE70CMP101912P2** | Price |
| 1-1/2 x 1/8 | 1/8 | 74.8 | **NE70CMP151212P2** | Price |
| 3/4 | 1/8 | 17.5 | **NE70CMP7512CSP2** | Price |
| 3/4 x 1/8 | 1/8 | 18.5 | **NE70CMP751212P2** | Price |

## MAG-MATE Grinder Tool Holder Magnet

- Powerful permanent magnet holds 4" diameter grinder wheels in horizontal or vertical positions, regardless of trigger location
- Sturdy stainless steel holder
- Plated permanent ceramic magnet
- Magnetic base allows for quic plameent and repositioning

New!



| Model No. | Holding Capacity (lbs) | Height (in.) | Width (in.) | Length (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| GTH01 | 41 | 6 | 4-3/8 | 9-1/8 | 1.2 LBS | **NE70GTH01** | Price |

## MAG-MATE Magnetic Air Chuck Holder

- Holder keeps fittings conveniently on your hose
- Fits typical 3/8" hose
- 3 Holders in a pack

New!



| Model No. | Dia. (in.) | Height (in.) | Width (in.) | Length (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| ACH1/4 | 3/8 Hose | 1-1/2 | 7/8 | 1-1/2 | .05 lbs | **NE70ACH14** | Price |

## MAG-MATE Magnetic Hose Cord Hook/Holder

- Secure hoses, cables, cords and more to any flat steel surface
- Magnet can be quickly installed and repositioned
- Sturdy stainless steel hook
- Small holder secures ends of hose/cord from unraveling



New!

| Mocel No. | Holding Capacity (lbs) | Dia. (in.) | Hook Base Depth (in.) | Hook Tip (in.) | Hook Width (in.0 | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| MX2750HC1 | 45 | 2.88 | 3-3/4 | 2 | 1 | .65 lbs | **NE70MX2750HC1** | Price |

## MAG-MATE Grip Stick Magnetic Retrievers

- Pick your lift lbs., Magnet & grip are interchangeable
- Retrieve hot parts
- Keep hands out of press
- Reduce employee injury
- 10° Angled handle

MADE IN THE USA



| Magnet Material | Lift (lb.) | Length (in.) | Width (in.) | Height (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| Ceramic | 12.5 | 14 | 1-3/8 | 7/8 | **NE70IMPL2100** | Price |
| Rare Earth | 43.5 | 14 | 1-3/8 | 7/8 | **NE70IMPL2104** | Price |

## Magnetic Welding Squares

- Ideal for welders who need fast set-up and accurate holding of steel sheet stock, plate, tubing and pipe
- Mounting holes provided for fixturing welding squares into jigs



WS400AX3



WS410

WS420



WS100

WS11094



WS302

| Item | Holding Capacity (lbs.) | Description | Length (in.) | Height (in.) | Width (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| WORLD CLASS QUALITY | 20 | 10 Angle | 4 | 2-9/16 | 1/2 | **NE601187** | Price |
| GENERAL | 20 | 10 Angle | 4 | 2-9/16 | 1/2 | **NE50377** | Price |
| MAG-MATE | 55 | 10 Angle | 4-3/8 | 3 | 3/4 | **NE7011094** | Price |
| | 40 | Welding Square | 5-1/2 | 2-7/8 | 5/8 | **NE70WS100** | Price |
| | 110 | 10 Angle | 4-3/8 | 3 | 1-9/16 | **NE70WS11094X2** | Price |
| | 60 | Standard | 3-3/4 | 3-3/4 | 3/4 | **NE7011095** | Price |
| | 60 | 3 Sided Compact | 3-3/4 | 3-3/4 | 1-1/8 | **NE70WS300AX3** | Price |
| | 55 | 3 Sided Multi Angle | 4-3/8 | 3 | 1-1/8 | **NE70WS11094AX3** | Price |
| | 60 | 3 Sided Comapct Multi Angle | 3-3/4 | 3-3/4 | 1-1/8 | **NE70WS301AX3** | Price |
| | 75 | Standard Heavy Duty | 3-3/4 | 4-3/8 | 3/4 | **NE7011097** | Price |
| | 75 | Covered Heavy-Duty | 3-3/4 | 4-3/8 | 3/4 | **NE7011098** | Price |
| | 75 | 3 Sided Mid Size | 3-3/4 | 4-3/8 | 1-1/8 | **NE70WS400AX3** | Price |
| | 75 | 3 Sided Mid Size Covered | 3-3/4 | 4-3/8 | 1-1/8 | **NE70WS410AX3** | Price |
| | 120 | Adjustable | 7-5/8 | 3-3/4 | 1-3/8 | **NE7011096** | Price |
| | 150 | Extra Heavy-Duty | 3-3/4 | 4-3/8 | 1-1/2 | **NE7011099** | Price |
| | 325 | Super Heavy-Duty | 8 | 8 | 1-1/2 | **NE7011100** | Price |

## MAG-MATE Magnetic Welding Grounds

- Powerful magnet attaches securely to your ferrous metal work surface
- Spring loaded stud assures constant electrical ground contact
- 3-1/2” Dia. cup
- Quick release handle



| Type | Holding Capacity (lbs.) | AMPS | Order No. | Price |
|---|---|---|---|---|
| Magnetic Welding Ground - Brass Stud | 35 | 250 | **NE7020000** | Price |
| Magnetic Welding Ground - Copper Stud | 35 | 800 | **NE7020005** | Price |

## MAG-MATE On/Off Magnetic Weld Grounds

- ON/OFF Permanent Rare Earth Magnetic Grounds let welders set up, weld and quickly move on to the next project
- Simply place it on a work surface, turn it on and start welding
- Makes welding quicker and easier than ever before
- Will work on flat or pipe



| Hold (lbs.) | Height (in.) | Width (in.) | Length (in.) | Amps | Order No. | Price |
|---|---|---|---|---|---|---|
| 150 | 2-3/4 | 1-13/16 | 2-7/8 | 200 | **NE70WG200R** | Price |
| 150 | 2-3/4 | 1-15/16 | 2-7/8 | 300 | **NE70WG300R** | Price |
| 450 | 4-5/8 | 3 | 5 | 800 | **NE70WG800R** | Price |

## MAG-MATE Mag90™ On/Off Magnetic Squares

- On/Off Permanent Rare Earth Magnetic Squares are extremely powerful and eliminate the need for tedious clamping
- Mag90™ squares offer fast workholding on multiple sides for flat or round steel
- Features pre-tapped holes on all sides for mounting and a locking On/Off handle for safety



| Hold (lbs.) | Height (in.) | Width (in.) | Length (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 150 | 1-1/8 | 1-1/2 | 1-1/2 | **NE70WS0150R** | Price |
| 450 | 2-3/4 | 2-1/2 | 3 | **NE70WS0450R** | Price |
| 1000 | 3 | 4 | 4-1/4 | **NE70WS1000R** | Price |

## MAG-MATE On/Off Power Grip Magnets

- Powerful Rare Earth Magnet
- Securely grips heavy parts
- Works on flat or pipe
- Locking On/Off Handle
- Comfort Grip
- Max. temp. 180°F (82°C)



| Lift Capacity (lbs) | Height (in.) | Width (in.) | Order No. | Price |
|---|---|---|---|---|
| 60 | 5 | 2 | **NE70PG3060N** | Price |
| 100 | 7-3/4 | 3-3/8 | **NE70PG3100N** | Price |

## Arrow Magnetic Welding Holders

- Use for welding, soldering, assembly and many other applications
- Excellent for holding pipe and metal in upright positions
- Strong, powerful magnet encased in durable steel
- Helps hold work at 45°, 90° and 135° angles, freeing up hands



| Holding Capacity (lbs.) | Order No. | Price |
|---|---|---|
| 50 | **KP8346550** | Price |
| 75 | **KP8346560** | Price |

## MAG-MATE Magnetic Welding Wind Block Magnet

New!

- Powerful permanent magnets
- Prevents loss of gas coverage
- Stainless steel with flat black finish
- Spring load holds tight to surface, horizontally, vertically or inverted



| Model No. | Holding Capacity (lbs) | Height (in.) | Width (in.) | Length (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| WWB24 | 50 | 7.09 | 2.88 | 24 | 2.5 lbs | **NE70WWB24** | Price |
| WWB36 | 50 | 7.09 | 2.88 | 36 | 3 lbs | **NE70WWB36** | Price |

## MAG-MATE Load Control Magnets

- Powerful On/Off Rare Earth Magnet
- Works on Flat and Pipe
- Pole telescopes from 6’ to 12’



New!

| Model No. | Holding Capacity (lbs) | Length (in.) | Description | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| LCM150-01 | 150 lbs | 7 | No Pole | 1.2 lbs | **NE70LCM15001** | Price |
| LCM150-02 | 150 lbs | 80 | Pole Included - 147" Extension | 2.7 lbs | **NE70LCM15002** | Price |

## MAG-MATE Magnetic Squaring Arm for Press Brakes



- Powerful Rare Earth Magnets hold tight to die
- Arm swings from 90° to 20° in two directions allowing for 140° swing in total
- Arm is magnetic to hold small steel pieces, keep fingers away
- Adjustable handle secures arm at proper angle and moves out of the way
- Locator rule on leading edge helps locate squaring arm
- Stainless Steel/Aluminum construction
- Safety strap prevents squaring arm from falling off if accidentally knocked off die

New!

| Model No. | Holding Capacity (lbs) | Height (in.) | Width (in.) | Length (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| MSAP01 | 90 lbs | 2-5/8 | 7-1/4 | 14 | 5 lbs | **NE70MSAP01** | Price |

## MAG-MATE Magnetic Squaring Arm for Shears



- Powerful On/Off Permanent Rare Earth Magnet
- Adjustable magnet locations
- Stainless Steel Construction

New!

| Model No. | Holding Capacity (lbs) | Height (in.) | Width | Length | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| MSAS01 | 300 lbs | 2-5/8 | 2-1/4 | 12 | 2.25 lbs | **NE70MSAS01** | Price |

## MAG-MATE Magnetic Tool Holders



- Ideal for keeping tools or drill bits close at hand and organized
- Mount to walls, work benches, ladders, etc.
- 3/16" Mounting holes & screws provided
- Durable stainless steel construction
- 1-1/8" Thick x 2" High
- Tools NOT Included

| Holding Capacity (lbs.) | Size (in.) | Weight | Order No. | Price |
|---|---|---|---|---|
| 120 | 12" Bar | 2 lbs | **JY608113** | Price |
| 180 | 18" Bar | 3 lbs | **JY608118** | Price |
| 240 | 24" Bar | 4 lbs | **JY608124** | Price |

## MAG-MATE Magnetic Zip Tie Holder



- One piece galvanzied steel
- Powerful Rare Earth magnet
- Fits zip ties up to .30" Wide x .06" Thick

New!

| Model No. | Holding Capacity (lbs) | Overall Dimensions (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|
| MX0560RZIP6 | 6 | .21 x .10 Opening | .05 lbs | **NE70MX0560RZIP6** | Price |

## MAG-MATE Magnetic Reversible Hooks



- Secures cables, wire, lights, garments and more to any flat steel surface
- Magnet can be quickly installed and repositioned
- Stainless steel hook can be used in the "open" position for quick access to store product
- Move the hook to "closed" position to prevent products from being knocked off
- Overall length 4-1/2"

New!

| Model No. | Holding Capacity (lbs) | Dia. (in.) | Hook Base Depth (in.) | Hook Tip (in.) | Hook Width (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| MX2000HH | 19 | 2.03 | 3/4 | 3/4 | 1/4 | .20 lbs | **NE70MX2000HH** | Price |

## EZ-Lift Spreader Bars



- Better for unbalanced loads
- Use with multiple magnetic lifters
- Lifter span adjustable

New!

| Model No. | Length (in.) | Width (in.) | Height (in.) | Capacity (lbs) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| ELM-SB250 | 38.25 | 2.5 | 3.25 | 250 | 20 lbs | **TE10ELMSB250** | Price |
| ELM-SB500 | 48.25 | 3.5 | 3.5 | 500 | 25 lbs | **TE10ELMSB500** | Price |
| ELM-SB1000 | 72 | 6 | 5.1 | 1000 | 65 lbs | **TE10ELMSB1000** | Price |
| ELM-SB2000 | 72 | 8 | 7.3 | 2000 | 115 lbs | **TE10ELMSB2000** | Price |
| ELM-SB4000 | 79.75 | 6.5 | 6 | 4000 | 195 lbs | **TE10ELMSB4000** | Price |
| ELM-SB8000 | 96 | 13 | 12.3 | 8000 | 300 lbs | **TE10ELMSB8000** | Price |
| ELM-SB10000 | 116 | 15 | 14.7 | 10000 | 600 lbs | **TE10ELMSB10000** | Price |
| ELM-SB13500 | 140 | 18 | 17.1 | 13500 | 880 lbs | **TE10ELMSB13500** | Price |

## EZ-Lift Vertical Lifters



- Fast loading for vertical transport
- One person can load and unload
- No dangerous straps or slings

New!

| Model No. | Length (in.) | Width (in.) | Height (in.) | Capacity (lbs) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| ELM-100 | 4.2 | 2.4 | 4.7 | 220 | 5.5 lbs | **TE12ELM100** | Price |
| ELM-300V | 5.25 | 8 | 6.25 | 660 | 57 lbs | **TE12ELM300V** | Price |
| ELM-300 | 7.1 | 3.6 | 6.1 | 660 | 18.9 lbs | **TE12ELM300** | Price |
| ELM-600V | 6.5 | 11.5 | 7.5 | 1320 | 86 lbs | **TE12ELM600V** | Price |
| ELM-1000V | 8.5 | 12.75 | 10 | 2200 | 128 lbs | **TE12ELM1000V** | Price |
| ELM-600 | 10.0 | 4.5 | 8.3 | 1320 | 46 lbs | **TE12ELM600** | Price |
| ELM-1000 | 11.0 | 6.5 | 11.3 | 2200 | 101 lbs | **TE12ELM1000** | Price |
| ELM-2000 | 16.6 | 8.5 | 13.7 | 4400 | 259 lbs | **TE12ELM2000** | Price |
| ELM-3000 | 22.3 | 8.5 | 15.7 | 6600 | 399 lbs | **TE12ELM3000** | Price |

## MAG-MATE Magnetic Parts Retrievers

- Ideal for removal of steel parts from bins, boxes, kegs, table and floors
- Fingertip release
- Durable aluminum housing
- Comfortable non-slip handle





| Style - Long Handle | | | | | | |
|---|---|---|---|---|---|---|
| Lift Capacity (lbs.) | Length (in.) | Width (in.) | Height (in.) | Weight | Order No. | Price |
| 5.0 | 4-1/2 | 2-3/8 | 33-1/2 | 2.4 lbs | **NE70PR710030** | Price |
| 7.0 | 4-1/2 | 2-3/8 | 33-1/2 | 2.5 lbs | **NE70PR720030** | Price |
| 11.0 | 4-1/2 | 2-3/8 | 33-1/2 | 2.7 lbs | **NE70PR740030** | Price |

| Style - Short Handle | | | | | | |
|---|---|---|---|---|---|---|
| Lift Capacity (lbs.) | Length (in.) | Width (in.) | Height (in.) | Weight | Order No. | Price |
| 5.0 | 4-1/2 | 2-3/8 | 7-1/2 | 1.6 lbs | **NE7010700** | Price |
| 7.0 | 4-1/2 | 2-3/8 | 7-1/2 | 1.7 lbs | **NE7010710** | Price |
| 11.0 | 4-1/2 | 2-3/8 | 7-1/2 | 1.8 lbs | **NE7010720** | Price |

## MAG-MATE Power Grip Magnets

MADE IN THE USA

- Effective holding against shear force
- Securely grips heavy parts
- Retrieve hot parts from cutting tables
- 300°F (148°C)










| Lift Capacity (lbs.) | No. of Poles | Length (in.) | Width (in.) | Height (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 25.0 | 2 | 2-1/8 | 3/4 | 2 | **NE7020500** | Price |
| 51.5 | 2 | 4 | 3/4 | 2-1/4 | **NE7020505** | Price |
| 92.5 | 4 | 5-1/4 | 1-7/8 | 2-3/4 | **NE7020510** | Price |

## MAG-MATE Magnetic Trigger Lift®

- Hand held lift provides a strong grip on parts with an easy to use trigger release
- Lightweight aluminum housing
- One handed operation
- Move sheets and parts fast, safe and easy
- Retrieve hot parts from burn tables

MADE IN THE USA

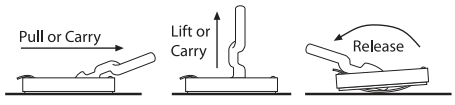


| Lift Capacity (lbs.) | Length (in.) | Width (in.) | Height (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 50 | 3-3/8 | 2-3/8 | 4-13/16 | **NE7020515** | Price |

## MAG-MATE Magnetic Sheet Handlers

MADE IN THE USA

- Lift or move sheets, plates, hot or oily parts
- Handle sheets stacked horizontally or vertically
- Protect workers from cuts, slivers, nicks & burns
- Increase productivity
- No electricity required
- Heat Resistant up to 300°F (148°C)
- Not intended to be used with a crane








| Holding Capacity (lbs.) | Width (in.) | Length (in.) | Height (in.) | Weight (lbs.) | Maximum Penetration (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 50 | 3-5/8 | 6-1/8 | 1-3/8 | 3.75 lbs | 3/16 | **NE70B100** | Price |
| 125 | 7-1/4 | 6-1/8 | 1-1/8 | 7.25 lbs | 5/16 | **NE70B250** | Price |
| 200 | 7-1/4 | 6-1/8 | 1-7/16 | 7.25 lbs | 5/16 | **NE70B400** | Price |
| 300 | 7-1/4 | 6-1/8 | 1-3/8 | 7.25 lbs | 5/16 | **NE70B600** | Price |

## MAG-MATE BasicLift™ Ceramic Lift Magnets

### For Lifting Thick, Non-Flexing, Flat Steel Items

Permanent lift magnet for a broad range of lifting applications. The Basic Lift magnet has a full width cam release and a tall lift lug for easy use with crane hooks and sling.

- Full width cam release
- Large lift lug
- Light weight Design
- Durable Stainless Steel casing
- Heat resistant up to 300°F (148°C)
- 2:1 Design Factor

MADE IN THE USA



| Rated Lift Capacity in lbs (kg) | Width (in.) | Length (in.) | Weight (lbs.) | 3/16" (6' Lg) | 1/4" (6' Lg) | 3/8" (8' Lg) | 1/2" (8' Lg) | 3/4" (8' Lg) | 1" (10' Lg) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 400 | 5-5/8 | 7-1/2 | 11 lbs | 375 (170) | 400 (181) | 400 (181) | 400 (181) | 400 (181) | 400 (181) | **NE70BL0400** | Price |
| 1000 | 5-5/8 | 11 | 17 lbs | 725 (328) | 800 (362) | 875 (396) | 975 (442) | 1000 (453) | 1000 (453) | **NE70BL1000** | Price |
| 1500 | 5-5/8 | 14-1/2 | 24 lbs | 875 (396) | 1000 (453) | 1400 (635) | 1400 (635) | 1500 (680) | 1500 (680) | **NE70BL1500** | Price |

## MAG-MATE Creative Lift® Ceramic Lift Magnets

### For Lifting Thick, Non-Flexing, Flat Steel Items



Permanent lift magnets are ideal for handling steel plates, die castings, forgings, etc. They eliminate the need for clamping devices, slings or chains. The patented Non-Marring Roller Cam Release will easily release parts without gouging your valuable materials (U.S. Patent: 6,471,273 B1). F.O.B MI

- Spring return handle
- Less torque required to release load
- "Jack Screw", Secondary Release
- Durable Stainless Steel Casing
- Heat Resistant up to 300°F (148°C)
- 3:1 Design Factor
- Conforms to ASME B30.20 Standards
- † Maximum sheet length for specified material thicknesses are selected due to the sag characteristics of the specified length

MADE IN THE USA

| Rated Lift Capacity in lbs. (kg) | Width (in.) | Length (in.) | Weight (lbs.) | 3/16" (6' Lg)† | 1/4" (6' Lg)† | 3/8" (8' Lg)† | 1/2" (8' Lg)† | 3/4" (8' Lg)† | 1" (10' Lg)† | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 400 | 7-1/4 | 7-3/4 | 21 lbs | 400 | 400 | 400 | 400 | 400 | 400 | **JY50MP338** | Price |
| 1000 | 7-1/4 | 10-3/4 | 33 lbs | 600 | 900 | 1000 | 1000 | 1000 | 1000 | **JY50MP339** | Price |
| 1500 | 7-1/4 | 14-3/4 | 46 lbs | 800 | 1000 | 1500 | 1500 | 1500 | 1500 | **JY50MP340** | Price |
| 2200 | 10-1/2 | 15 | 69 lbs | 800 | 1064 | 1725 | 2000 | 2200 | 2200 | **JY50MP500** | Price |
| 3000 | 10-1/2 | 19-1/4 | 92 lbs | 800 | 1100 | 1800 | 2700 | 3000 | 3000 | **JY50MP674** | Price |

## MAG-MATE PowerLift® Rare Earth Lift Magnets

### For Lifting Thick Non-Flexing Steel Items



- Lightweight On/Off Rare Earth Design
- Easy release, no moving parts contact the load
- Heat resistant up to 180°F (82°C)
- 3:1 Design Factor
- Conforms to ASME B30.20 Standards
- Lifts flat or round loads
- RFID Enabled
- Handle locks in both "On" or "Off" position
- †Maximum sheet length for specified material thicknesses are selected due to the sag characteristics of the specified length
- Hazard Code: 05

| Type - Rare Earth Lift Magnets | | | | | | |
|---|---|---|---|---|---|---|
| Rated Lift Cap. Sheet in lbs. (kg) | Rated Lift Cap. Round in lbs. (kg) | Length (in.) | Width (in.) | Weight | Order No. | Price |
| 250 (113) | 125 (57) | 3-5/8 | 2-1/2 | 7 lbs | **NE700250** | Price |
| 800 (363) | 400 (181) | 6-3/8 | 3-5/8 | 21 lbs | **NE700800** | Price |
| 1600 (726) | 800 (363) | 9-1/8 | 4-7/8 | 51 lbs | **NE701600** | Price |
| 2500 (1134) | 1250 (567) | 10-5/8 | 7-1/8 | 122 lbs | **NE702500** | Price |

| Type - Handle for Model 1600 | |
|---|---|
| Order No. | Price |
| **NE701600HDL** | Price |

## MAG-MATE VersaLift™ Magnets

- Rare earth magnet with a locking on/off handle & test load feature
- Supports custom pole shoes
- Lifts flat or round loads
- Heat resistant up to 180°F (82°C)
- Stationary lift lug(s)
- Vertical left capable using the optional lift lug attachment
- Embedded RFID chip
- 3:1 Design factor
- Conforms to ASME B30.20 Standards
- †Maximum sheet length for specified material thicknesses are selected due to the sag characteristics of the specified length

MADE IN THE USA

Compact and powerful rare earth permanent lift magnet for use on flat or round surfaces. Contains an internal on/off release device that does not contact or damage the surface of the part. Permanent magnetic lifts eliminate the fear of dropping the load being lifted due to power failures. Use two or more lifts on a spreader bar to prevent sheet flexing, sagging or peel-off. To operate Test Feature, pull spring loaded handle out and rotate it to the "Test" position. Lift load approximately 2-3" to verify the magnet has the capacity to lift your load. Once verified, place load back down and turn the handle to the "ON" position. Never complete entire lift operation in "Test" position.



| Rated Lift Capacity Sheet (lbs)(kg) | Rated Lift Capacity Round (lbs)(kg) | Rated Lift Capacity Vertical in lbs (kg) | Length (in.) | Width (in.) | 1/4" (6' Long)† | 1/2" (8' Long)† | 3/4" (8' Long)† | 1" (10' Long)† | 2"+ (10' Long)† | Weight (lbs) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 600 (272) | 300 (136) | 150 (68) | 5-5/8 | 5 | 260 (117) | 525 (238) | 550 (249) | 600 (272) | 600 (272) | 18 lbs | **NE70VL0600** | Price |
| 1200 (544) | 600 (272) | 300 (136) | 10 | 5 | NA | 960 (435) | 1165 (528) | 1200 (544) | 1200 (544) | 34 lbs | **NE70VL1200** | Price |

## All Steel Bench Vises with Swivel Base

- Unbreakable all steel body
- Permanent pipe jaws and anvil
- 360° Swivel base with locks



| Jaw Width (in.) | Jaw Depth (in.) | Jaw Opening (in.) | Shipping Weight | Order No. | Price |
|---|---|---|---|---|---|
| 4 | 2-1/4 | 4 | 17 lbs | **HZ60SV4** | Price |
| 5 | 2-5/8 | 5 | 24 lbs | **HZ60SV5** | Price |
| 6 | 3 | 6 | 32 lbs | **HZ60SV6** | Price |
| 8 | 3-1/2 | 8 | 62 lbs | **HZ60SV8** | Price |

## General Purpose Vises

- Serrated jaws
- 360° swivel base
- Built in anvil
- 3 mounting holes
- 2 lockdowns



| Model No. | Jaw Width (in.) | Jaw Opening (in.) | Throat Depth (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| BV-HD40 | 4 | 4 | 2 | 17 lbs | **SG75BVHD40** | Price |
| BF-HD60 | 6 | 6 | 3 | 44 lbs | **SG75BVHD60** | Price |

## Shop Vises

- Designed for general duty use
- Instant-Action™ vise design
- Vise rotates 360˚
- Rubber pinch point safety guards
- Heavy duty 25,000 PSI castings
- Limited lifetime warranty



| Jaw Width (in.) | Jaw Opening (in.) | Throat Depth (in.) | Shipping Weight | Order No. | Price |
|---|---|---|---|---|---|
| 4 | 4 | 2-3/4 | 23.25 lbs | **HZ40WS4** | Price |
| 5 | 5 | 3 | 30.05 lbs | **HZ40WS5** | Price |
| 6 | 6 | 3-1/2 | 45.65 lbs | **HZ40WS6** | Price |

## High Visibility Safety Vises

- Wilton safety vises are coated in high visibility yellow which conforms to the OSHA safety color standard for physical hazards regulation #1910.144
- Exclusive powder coat finish resists scratches
- Handles and lock downs are black oxide coated
- Lifetime Warranty



| Jaw Width (in.) | Max. Opening (in.) | Pipe Capacity (in.) | Shipping Weight | Order No. | Price |
|---|---|---|---|---|---|
| 5 | 5-1/4 | 1/4 - 2-1/2 | 49.4 lbs | **HZ401550** | Price |
| 6 | 5-3/4 | 1/4 - 3-1/2 | 63.65 lbs | **HZ401560** | Price |

## Mechanic's Vises

- Straight line design
- 30,000 PSI body parts
- Locking swivel base — 360° swivel rotation with double lock downs
- Replaceable jaws hardened if needed
- Limited Lifetime warranty



| Jaw Width (in.) | Max. Opening (in.) | Pipe Capacity (in.) | Shipping Weight | Order No. | Price |
|---|---|---|---|---|---|
| 4 | 4-1/2 | 1/4 - 2 | 36.45 lbs | **HZ40744** | Price |
| 5 | 5-1/4 | 1/4 - 2-1/2 | 52.8 lbs | **HZ40745** | Price |
| 6 | 5-3/4 | 1/4 - 3-1/2 | 69.35 lbs | **HZ40746** | Price |

## ATV All-Terrain Vise™

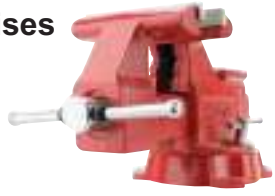
- Fits a standard 2" hitch and includes a hitch pin for security
- Can be mounted on a bench or trailer
- Lightweight and with an integrated carrying handle
- Patented 360° locking handle secures the handle while driving
- Set screws are designed to provide a tight fit in the hitch
- Water resistant for all weather protection
- Large striking anvil
- Jaws are replaceable
- 60,000 PSI ductile iron body
- Mounting Bracket HZ4010300
- Carry Case HZ4010350



| Jaw Width (in.) | Jaw Opening (in.) | Jaw Height (in.) | Pipe Capacity | Order No. | Price |
|---|---|---|---|---|---|
| 5 | - | - | 7/8 - 3 | **HZ4010025** | Price |
| 6 | 5-3/4 | 7/8 | 3/4 - 3 | **HZ4010010** | Price |
| 6 | 5-3/4 | 7/8 | 3/4 - 3 | **HZ4010015** | Price |

## Utility Workshop Vises

- Versatile, all around vise
- Replaceable, serrated steel top jaws
- 180° Swivel base
- Large anvil work area
- Built-in pipe jaws
- Lifetime Warranty



| Jaw Width (in.) | Max. Opening (in.) | Pipe Capacity (in.) | Shipping Weight | Order No. | Price |
|---|---|---|---|---|---|
| 4-1/2 | - | 1/8 - 2 | 19.4 lbs | **HZ40674** | Price |
| 8 | 7-1/2 | 1/8 - 3 | 86.2 lbs | **HZ40648HD** | Price |
| 5-1/2 | 5 | 1/8 - 2-1/2 | 29.2 lbs | **HZ40675** | Price |
| 6-1/2 | 5-1/2 | 1/8 - 2-1/2 | 41.85 lbs | **HZ40676** | Price |
| 6-1/4 | 6 | 1/8 - 3 | 64.1 lbs | **HZ40656HD** | Price |

## Tradesman Vises

- Great for general purpose use
- 60,000 PSI tensile ductile iron body parts
- Hardened steel top and pipe jaws
- Straight line, enclosed design
- Enclosed construction keeps lubrication in, contaminants out
- Lifetime Warranty



| Jaw Width (in.) | Max. Opening (in.) | Pipe Capacity (in.) | Throat Depth (in.) | Shipping Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 4-1/2 | 4 | 1/4 - 2-1/2 | 3/4 | 41.2 lbs | **HZ401745** | Price |
| 5-1/2 | 5 | 1/4 - 3 | 3/4 | 51.55 lbs | **HZ401755** | Price |
| 6-1/2 | 6-1/2 | 1/4 - 3-1/2 | 1 | 70.95 lbs | **HZ401765** | Price |
| 8 | 7 | 1/8 - 3-1/2 | 1 | 111 lbs | **HZ401780** | Price |

**Pedestal Base Available. Call for Pricing.**

## Reversible Mechanics Vises with Swivel Base

- Replaceable, hardened tool steel jaw faces
- Swivel base with four moutning lugs allows for 360° swivel
- Two large anvil work surfaces
- Two lockdown bolts are furnished to ensure stability



| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Pipe Capacity (in.) | Base Type | Order No. | Price |
|---|---|---|---|---|---|---|
| 6 1/2 | 8 Regular / 9-3/4 Reversed | 4 Regular / 3 Reversed | 1/8 - 3-1/2 | 180 Degree Swivel Base | **HZ4014600** | Price |
| 8 | 9-1/2 Regular / 11-3/4 Reversed | 5 Regular / 2-3/4 Reversed | 1/8 - 4-1/2 | 180 Degree Swivel Base | **HZ4014800** | Price |

## All Weather Outdoor Vises

- Self-centering nickel plated pipe jaws-hold up to 2-1/2" pipe safely and securely
- Nickel plated jaw inserts
- Enclosed construction keeps lubrication in and contaminants out
- Perfect for outdoor use
- Locking swivel base-with double lockdowns for non-slip hold in any position
- Precision slide bar eliminates movement in the front jaw
- Large anvil work surfacel
- 60,000 PSI ductile iron body
- Lifetime Warranty



| Model No. | Jaw Depth (in.) | Jaw Height (in.) | Jaw Width (in.) | Throat Depth (in.) | V-Jaws Max. Opening (in.) | Comments | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| AW35 | 5/8 | 1 | 3-1/2 | 4-1/2 | 5 | 360 Degree Swivel Base | 50.7 lbs | **HZ4010400** | Price |
| AW45 | 5/8 | 1-1/4 | 4-1/2 | 4-3/4 | 6 | 360 Degree Swivel Base | 78.35 lbs | **HZ4010500** | Price |

## Multi Jaw Bench Vise

- Comes with replaceable hardened steel jaws
- Features parallel jaws, pipe jaws, and v-jaws
- Bolt lugs on the base
- Made from FC25 fine grain cast iron
- Vise swivels 360 degrees on the base and locks in any position
- The jaws rotate 360 degrees and lock in any position
- Trapezoidal-thread lead screw
- Lifetime Warranty



| Size (in.) | Weight | Order No. | Price |
|---|---|---|---|
| 5 | 58 lbs | **JB509629503** | Price |

## Heavy Duty Bench/Pipe Vises

### With Rotating Jaws

- Ideal for machine repair, pipe or bench work
- Full 360° rotating jaws
- Machine cut parallel jaws
- Larger, stronger pipe jaws
- Unique V-jaws provide 4-point holding power



| Jaw Width (in.) | Jaw Opening (in.) | Throat Depth (in.) | Pipe Jaws Max. Open (in.) | V-Jaws Max Open (in.) | Shipping Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 4 | 3-1/2 | 2-1/2 | 2 | 3-1/2 | 52 lbs | **HZ70BP4** | Price |
| 5 | 4 | 3-1/2 | 3 | 4 | 89 lbs | **HZ70BP5** | Price |
| 6 | 5-1/4 | 3-1/2 | 6 | 5-1/2 | 53 lbs | **HZ70BP6** | Price |

## Multi Purpose Vise

- Pipe and serrated jaws
- Jaw rotates 360°
- 360° swivel base
- Built in anvil
- 3 mounting holes
- 2 lockdowns



| Model No. | Jaw Width (in.) | Jaw Opening (in.) | Throat Depth (in.) | Pipe Capacity (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| BV-MPV5 | 5 | 5 | 3 | 2 | 43 lbs | **SG75BVMPV5** | Price |

## Combination Bench & Pipe Vises

- Spindle and nut are totally enclosed in a square tube casting that protects them from dust, chips and moisture, keeping them lubricated for life
- 70% stronger than the competitive u-shaped styles
- 65,000 PSI ductile castings
- Sealed construction
- Straight line pull power tunnel design
- Precision fit slide bar to 0.003"
- Lifetime Warranty



| Jaw Opening (in.) | Jaw Width (in.) | Pipe Cap. (in.) | Throat Depth (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 7 | 6 | 1/4 - 3-1/2 | 3-3/4 | 43 lbs | **JB509629746** | Price |
| 8-1/4 | 8 | 1/4 - 3-1/2 | 4-3/4 | 60 lbs | **JB509629748** | Price |

## Combination Pipe & Bench Vises

### Handles Any Workholding Job A Crew Demands

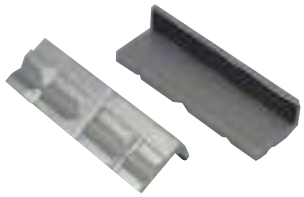
- 60,000 PSI tensile ductile iron body parts
- Straight line design
- Alloy steel slide bar adds precision and strength
- Hardened steel top and pipe jaws
- Enclosed construction keeps lubrication in, contaminants out
- 360° Swivel base
- Lifetime warranty



| Jaw Width (in.) | Max. Opening (in.) | Pipe Capacity (in.) | Throat Depth (in.) | Shipping Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 3-1/2 | 5 | 1/8 - 2-1/2 | 5/8 | 50.5 lbs | **HZ40C0** | Price |
| 4-1/2 | 6 | 1/8 - 3-1/2 | 5/8 | 78.05 lbs | **HZ40C1** | Price |
| 5 | 7 | 1/8 - 4-1/2 | 5/8 | 100 lbs | **HZ40C2** | Price |
| 6 | 9 | 1/4 - 6 | 5/8 | 204 lbs | **HZ40C3** | Price |

## Aluminum Vise Jaw Pads

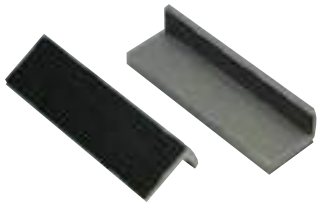
- Ideal for holding round and hex parts securely
- V-shaped aluminum surface holds and helps protect round or hex parts
- Specially designed ledge supports flat items while clamping
- Strong nitrile magnets will attach to any steel vise jaws
- Pad length is 4”



| Order No. | Price |
|---|---|
| KN6548000 | Price |

## Rubber Faced Vise Jaw Pads

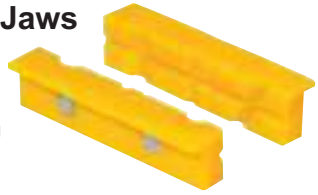
- For protecting delicate parts
- Rubber jaw pads protect delicate parts from damage
- Also works great for holding irregular shapes
- Strong nitrile magnets attach to any steel vise jaw
- Pad length is 4”



| Order No. | Price |
|---|---|
| KN6548100 | Price |

## Multi Purpose Vise Jaws

- Designed to fit any 3-6” ferrous vise jaw
- Magnetic backing
- Great for holding wood, metal & tubing without marring



| Model No. | Jaw Opening (in.) | Weight | Order No. | Price |
|---|---|---|---|---|
| BV-NVJ | 3 - 6 | .50 lbs | SG75BVNVJ | Price |

## Multi Grip Vise Jaws

- Soft polyurethane jaws designed to avoid marring the surface of softer metals and to protect jaw face
- Designed to fit any 3” – 6” vise jaws, including all WILTON® and Columbian® vises
- Magnetic back mounts securely to jaw
- Great for holding wood, metal and tubing



| Order No. | Price |
|---|---|
| HZ4021111 | Price |

## Copper Jaw Caps

MADE IN THE USA

- Designed to avoid marring the surface of softer metal and to protect jaw faces
- Jaw caps have polished faces and pliable copper extensions for a sure-grip fit on any make vise
- **Priced per pair**



| For Use With | Order No. | Price |
|---|---|---|
| 3" Jaw Widths | HZ404043 | Price |
| 3-1/2" Jaw Widths | HZ40404350 | Price |
| 4" Jaw Widths | HZ404044 | Price |
| 4-1/2" Jaw Widths | HZ40404450 | Price |
| 5" Jaw Widths | HZ404045 | Price |
| 5-1/2" Jaw Widths | HZ40404550 | Price |
| 6" Jaw Widths | HZ404046 | Price |
| 6-1/2" Jaw Widths | HZ40404650 | Price |
| 8" Jaw Widths | HZ404048 | Price |

## Magnefix Vise Jaw Caps

### Magnetic Protective Jaw Caps

Designed to protect both the vise jaws and the workpiece from marring or deforming during clamping.

- Aluminum alloy with two built-in circular magnets
- Caps are magnetic only towards the vise – clamped parts will not become magnetized
- Right angled and surface parallel to fit any type vise

**Model P - Prism Magnefix Jaw Caps**

- Jaw construction includes a 120° horizontal Vee-Groove, 3 vertical Vee-Grooves and a 90° groove for marking out and center punching
- Ideal for light tapping

P4



**Model R - Rubber Face Magnefix Jaw Caps**

- Aluminum alloy with synthetic rubber cover
- Conforms to workpiece and grip without slipping
- Mar-free

R4



**Model F- Fiber Face Magneflex Jaw Caps**

- Aluminum alloy with laminated fiber cover to prevent the absorption of outside materials
- Heat parts rapidly by concentrating heat into part
- Use on workpieces to avoid distortion and clamping marks



F4

**Model A- Aluminum Magneflex Jaw Caps**

- Aluminum alloy design includes six grooves to compensate for the unevenness of the workpiece
- Deeper V-groove ensures more secure clamping of circular workpieces
- Use together with rubber magnefix jaw caps



A4

| Type - 1-Pair Aluminum Face Vise Jaw Caps | | |
|---|---|---|
| Jaw Width (in.) | Order No. | Price |
| 4 | HZ40A4 | Price |
| 4-1/2 | HZ40A45 | Price |
| 5 | HZ40A5 | Price |
| 5-1/2 | HZ40A55 | Price |
| 6 | HZ40A6 | Price |
| 6-1/2 | HZ40A65 | Price |

| Type - 1-Pair Fiber Face Vise Jaw Caps | | |
|---|---|---|
| Jaw Width (in.) | Order No. | Price |
| 4 | HZ40F4 | Price |
| 4-1/2 | HZ40F45 | Price |
| 5 | HZ40F5 | Price |
| 6 | HZ40F6 | Price |

| Type - 1-Pair Prism Face Vise Jaw Caps | | |
|---|---|---|
| Jaw Width (in.) | Order No. | Price |
| 4 | HZ40P4 | Price |
| 4-1/2 | HZ40P45 | Price |
| 5 | HZ40P5 | Price |
| 6 | HZ40P6 | Price |

| Type - 1-Pair Rubber Face Vise Jaw Caps | | |
|---|---|---|
| Jaw Width (in.) | Order No. | Price |
| 4 | HZ40R4 | Price |
| 4-1/2 | HZ40R45 | Price |
| 5 | HZ40R5 | Price |
| 6 | HZ40R6 | Price |

## SPEED VISE Extra Jaw Plates

- Alloy steel hardened and ground
- Elevated steps for clear through drilling
- Deep V-grooves, both vertical and horizontal
- Socket head cap screws included



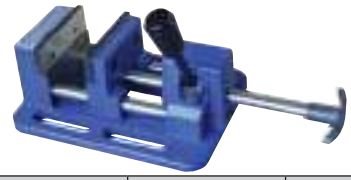
6VJP 8CJP

| | 1-Pair Matching V-Groove Jaw Plates | | 1-Pair Smooth & V-Groove Jaw Plates | |
|---|---|---|---|---|
| For Use With | Order No. | Price | Order No. | Price |
| 3" Speed Vise | HT553VJP | Price | HT553CJP | Price |
| 4 & 5" Speed Vise | HT554VJP | Price | HT554CJP | Price |
| 6 & 7" Speed Vise | HT556VJP | Price | HT556CJP | Price |
| 8" Speed Vise | HT558VJP | Price | HT558CJP | Price |

## RAPIDHOLD™ Quick Release Drill Press Vises

- Made for dill press vise applications that require rapid securing and release of work
- Precision ground guide bars and proven
- Locking clamp mechanism provides smooth, accurate holding
- Replaceable jaws are ground flat

New!



| Model No. | Jaw Opening (in.) | Jaw Depth (in.) | Jaw Width (in.) | Jaw Height (in.) | Base Sizs (in.0 | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 8503 | 3 | 1-1/16 | 3 | 2-3/4 | 7-1/4 x 5-3/8 | 9 lbs | **HT968503** | Price |
| 8504 | 4 | 1-3/8 | 4 | 3-9/16 | 11-3/16 x 5-3/4 | 19 lbs | **HT968504** | Price |
| 8506 | 6 | 1-5/8 | 6 | 4-5/16 | 14-5/8 x 9-3/16 | 34 lbs | **HT968506** | Price |
| 8508 | 8 | 1-5/8 | 8 | 4-1/2 | 18-1/2 x 11-3/8 | 59 lbs | **HT968508** | Price |

**F.O.B. Warren, MI**

## WORLD CLASS QUALITY Quick-Set Adjustable Drill Press Vises

- A quick, screwless vise
- Quick action mechanism on the vise permits the firm clamping
- Designed for clear through drilling
- Locking lever allows for quick raising, lowering, and tightening
- Body and sliding jaw made of cast iron
- Center bar and locking mechanism is made of high carbon steel, hardened, and ground

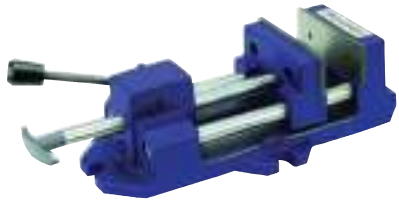


| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 3 | 3 | 1-1/2 | 11 lbs | **HX513PSV** | Price |
| 4 | 4-11/16 | 1-9/16 | 16 lbs | **HX514PSV** | Price |
| 6 | 6-5/16 | 2 | 33 lbs | **HX516PSV** | Price |

## PALMGREN INC. Quick Action Vises

- These versatile, general purpose drill press vises are just what you need for drilling, tapping, reaming, etc
- They can be used turned on either side or end
- Lifetime Warranty

New!



| Jaw Opening (in.) | Jaw Width (in.) | Throat Depth (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 3 | 3 | 1 | 8 lbs | **JB509612321** | Price |
| 4 | 4 | 1-3/8 | 18 lbs | **JB509612421** | Price |

## WILTON Cam Action Drill Press Vises

- A simple push or pull of the center knob sets the jaw in position
- Locking lever locks clamps part in place by exerting added holding power
- Holding power is adjustable from 400 to 1100 lbs.
- Base is designed for clear through drilling
- Lifetime Warranty

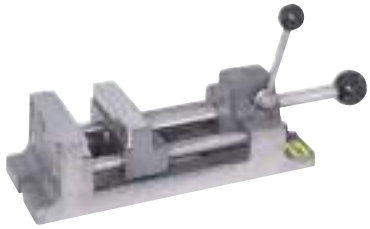


| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Vise Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 3 | 3 | 1-1/4 | 3.6 | 10.15 lbs | **HZ401203** | Price |
| 4 | 4-11/16 | 1-5/16 | 4.3 | 18 lbs | **HZ401204** | Price |
| 6 | 6-3/16 | 1-13/16 | 6.3 | 35.4 lbs | **HZ401206** | Price |
| 8 | 8-3/16 | 2 | 7.2 | 53.35 lbs | **HZ401208** | Price |

## heinrich Cam Action Drill Press Vises

### 5 Styles to Choose From!

MADE IN THE USA



- Designed for fast loading and unloading
- SV- Standard series locking mechanism, when actuated sets the jaw in place
- PA - Pumping action series is able to advance the jaw forward by “pumping the locking lever”
- GM - Series is similar to the (SV), except it has one side ground perpendicular to the base, which allows for the vise to be rotated 90°, thus eliminating the refixturing of the workpart
- TS - Series is similar to the (SV) except it has two ground sides perpendicular to the base. This allows the base to be rotated ±90°
- PA - Series is ideal for warped castings, wood, or metal laminations and plastics
- Holding power is adjustable from 400 to 1100 lbs. for (SA, GA, TS) series, 200-350 lbs. for (PA)
- Vise base is designed for clear through drilling

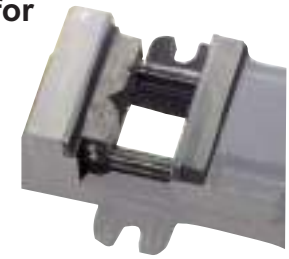
| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Vise Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 3 | 3 | 1-1/4 | 2-3/4 | 10 lbs | **JC503PA** | Price |
| 3 | 3 | 1-1/4 | 2-3/4 | 10 lbs | **JC503SV** | Price |
| 3 | 3 | 1-1/4 | 2-3/4 | 10 lbs | **JC503TS** | Price |
| 3 | 3 | 1-1/4 | 2-3/4 | 10 lbs | **JC504TS** | Price |
| 4 | 4-11/16 | 1-5/16 | 3-1/4 | 20 lbs | **JC504GM** | Price |

| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Vise Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 4 | 4-11/16 | 1-5/16 | 3-1/4 | 20 lbs | **JC504GMPA** | Price |
| 6 | 6-3/16 | 1-13/16 | 3-3/4 | 34 lbs | **JC506PA** | Price |
| 6 | 6-3/16 | 1-13/16 | 3-3/4 | 34 lbs | **JC506SV** | Price |
| 8 | 8-3/16 | 2 | 4-7/16 | 51 lbs | **JC508PA** | Price |
| 8 | 8-3/16 | 2 | 4-7/16 | 51 lbs | **JC508SV** | Price |

## V-Block Attachment for Cam Action Drill Vises

- Hardened and ground
- Insures a firm grip on round stock

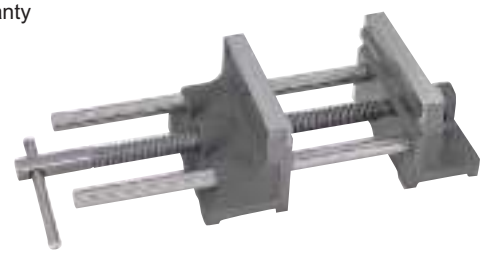




| Capacity | Order No. | Price |
|---|---|---|
| Holds 9/64 to 1" Rounds | **JC503VB** | Price |
| Holds 9/64 to 1-1/16" Rounds | **JC504VB** | Price |
| Holds 5/16 to 1-5/8" Rounds | **JC506VB** | Price |
| Holds 3/8 to 1-3/16" Rounds | **JC508VB** | Price |

## Drill Press Vises

- Can be used from three sides
- Ample clearance from jaw step to table
- V-Groove holds round stock for side and end drilling
- 1 Year Warranty



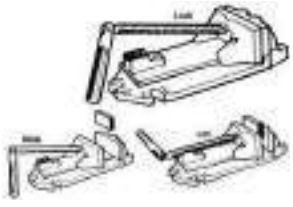
| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth to Bars (in.) | Overall Height (in.) | Shipping Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 6 | 10 | 2 | 4-1/8 | 22 lbs | **JC5020** | Price |
| 8 | 10 | 2-1/2 | 5 | 39 lbs | **JC5030** | Price |

## SPEED VISE

- Ideal for production or prototype work
- Convenient loading and unloading of parts
- Quick-action design
- Screw & nut hardened steel
- Heavy semi-steel castings
- Heavy steel base plate
- Standardized holes in jaws

MADE IN THE USA





| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 3 | 2-1/4 | 1-1/2 | 8 lbs | **HT553BV** | Price |
| 4 | 3-1/4 | 1-1/2 | 15 lbs | **HT554BV** | Price |
| 4 | 5 | 1-1/2 | 18 lbs | **HT555BV** | Price |
| 6 | 5 | 2 | 35 lbs | **HT556BV** | Price |
| 6 | 7 | 2 | 44 lbs | **HT557BV** | Price |
| 8 | 10 | 3 | 103 lbs | **HT558BV** | Price |

## PALMGREN Rapid Acting Machine Vises

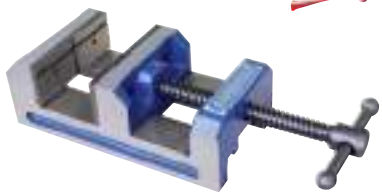
- Designed to hold medium to large size workpieces for tool and die, maintenance as well as production applications
- Our unique rapid action nut is ideal for repetitive operations where the workpiece must be secured and released rapidly
- Turn the handle to the left to release the moveable jaw - pull back to open the vise – push forward to close the vise - turn the handle to the right to tighten and clamp the part
- 4,400 pounds of clamping force
- Replaceable hardened and ground steel jaws with step
- Jaws have horizontal & vertical groove for holding round parts
- Lifetime Warranty




| Jaw Opening (in.) | Jaw Width (in.) | Throat Depth (in.) | Vise Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 8 | 4 | 1-7/8 | 3-1/4 | 45 lbs | **JB509612428** | Price |
| 10 | 6 | 1-7/8 | 4-1/4 | 45 lbs | **JB509612628** | Price |

## RAPIDHOLD 4" & 6" Drill Press Vise

- Versatile vises machined on four sides
- May be used on base, either side or end
- Made of high grade gray iron and are precision ground
- Ground steel jaw plates are removable

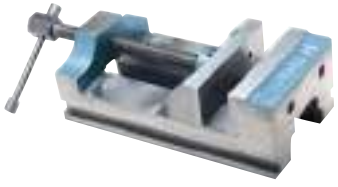



| Model No. | Jaw Opening (in.) | Jaw Depth (in.) | Jaw Width (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 7406 | 4 | 1-1/2 | 4 | 9 lbs | **HT967406** | Price |
| 7407 | 6 | 2 | 6 | 24 lbs | **HT967407** | Price |

**F.O.B. Warren, MI**

## PALMGREN Traditional Drill Press Vises

- Replaceable Steel Jaws
- Made from 30,000 PSI tensile strength, fine grain cast iron
- Base and bed parallel to 0.001 in
- Center of base is open
- All vises can be mounted on the base, either side or placed on end for general use
- Lifetime Warranty



| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Jaw Type (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 3 | 3 | 1-3/4 | Smooth | 11 lbs | **JB5013** | Price |
| 4 | 6 | 1-3/4 | Grooved | 18 lbs | **JB5014** | Price |
| 4 | 4-1/2 | 1.57 | - | 10 lbs | **JB50DP35** | Price |
| 6 | 6 | 2 | Grooved | 36 lbs | **JB5016** | Price |
| 6 | 6 | 2.05 | - | 25 lbs | **JB50DP60** | Price |
| 1-1/2 | 1-1/2 | 1 | Smooth, Grooved | 2 lbs | **JB506** | Price |
| 2-7/16 | 2-1/2 | 1-1/2 | Smooth, Grooved | 6 lbs | **JB5030** | Price |
| 2-7/16 | 3 | 1-1/2 | Grooved | 6 lbs | **JB5010†** | 99.00 |

**†Grooves made directly on fixed jaw.**

## Band Saw & Safety Drill Vises

- Soft guide bar prevents damage to saw blade
- Removable shoulder screws provided for automatic chain feed
- Keeps hands clear of saw for safe operation
- Built-in recessed parallel jaw inserts hold work square
- Vertical “V” in jaw provides positive grip on rounds
- Mounts on drill press table
- Swings away when not in use
- Sliding movable jaw
- Locking lever hold work securely
- 12WH Bandsaw Vise
- 13WH Safety Drill Vise

MADE IN THE USA



| Jaw Height (in.) | Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth of Bars (in.) | Shipping Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 1-3/4 | 5-5/8 | 12-1/2 | 3 | 12 lbs | **JC5012WH** | Price |
| 1-3/4 | 5-5/8 | 12-1/2 | 3 | 13 lbs | **JC5013WH** | Price |

## Grip Master Fixture Locks

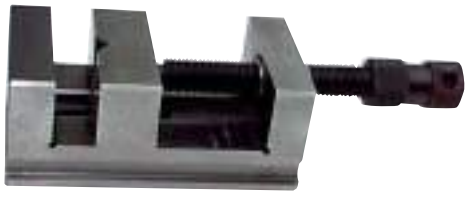
- Clamping at any position on the bar
- Fast and easy loading and unloading
- Available (PA) with pumping action handle, or regular (FL)



| Base Length (in.) | Base Width (in.) | Base Height (in.) | Bar Size (in.) | Bar Length (in.) | Shipping Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 3-5/16 | 3-3/16 | 2-7/8 | .493 | 9 | 4 lbs | **JC502FL** | Price |
| 3-5/16 | 3-3/16 | 2-7/8 | .493 | 9 | 4 lbs | **JC502PA** | Price |
| 4-5/16 | 3-11/16 | 3-15/16 | .742 | 10 | 8 lbs | **JC509FL** | Price |
| 4-5/16 | 3-11/16 | 3-15/16 | .742 | 10 | 8 lbs | **JC509PA** | Price |

## Toolmakers & Inspection Vises

- 1 Pc. All steel construction
- All surfaces hardened and precision ground square and parallel to accuracy of .0004”
- 2-468-110 and 2-468-115 have ground V-ways



| Jaw Width (in.) | Max. Opening (in.) | Order No. | Price |
|---|---|---|---|
| 2-3/8 | 2-1/8 | **NB562466000** | Price |
| 3-1/8 | 2-1/2 | **NB562468110** | Price |
| 4 | 3-1/8 | **NB562468115** | Price |

## Accu-Sine Vise

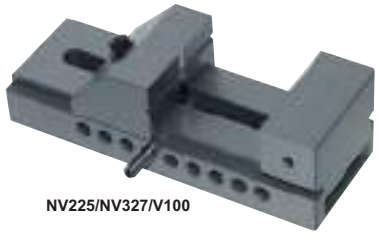
- Made of hardened steel
- Provides a quick and accurate means of holding a workpiece at an angle
- Square & parallel to .0004”
- Dimension: 7-5/8 x 3 x 4”
- Jaw capacity: 4”
- Center Dist. of Rolls: 4.0000 within .0002”
- Weight: 20 lbs.



| Order No. | Price |
|---|---|
| **NJ55NSV337** | Price |

## Precision Vises

- Square and parallel within .0002”
- Hardened and ground



NV225/NV327/V100



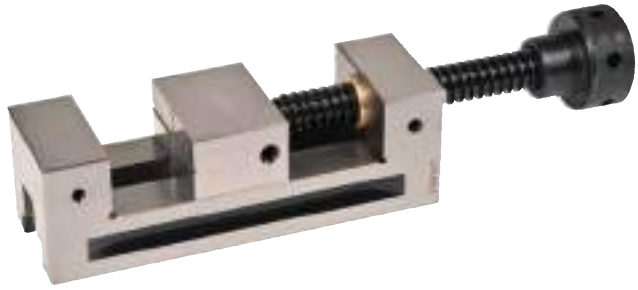
SDV10

| Vise Height (in.) | Jaw Height (in.) | Max. Jaw Opening (in.) | Jaw Width (in.) | Vise Length (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 1-1/4 | 3/8 | 1/2 | 15/16 | 2-1/2 | 1 lb | **HX54SDV10** | Price |
| 2-1/2 | 1-1/4 | 3-3/8 | 2-1/2 | 6-7/8 | 7 lbs | **HX54V100** | Price |
| 2-1/4 | 1-1/4 | 3 | 2 | 5-7/8 | 4 lbs | **HX54NV225** | Price |
| 2-3/4 | 1-1/2 | 4 | 3 | 7-1/2 | 10 lbs | **HX54NV327** | Price |

## Toolmakers Vises

- Screw type moveable jaw
- Tops, sides, and bottom are precision ground heat treated to 55 HRC square and parallel
- Parallelism: 0.0001”
- Squareness: 0.0002”

New!



| Jaw Opening (in.) | Jaw Width (in.) | Throat Depth (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 2-1/2 | 4 | 1 | 4 lbs | **JB509613152** | Price |
| 4-15/16 | 6 | 1-3/4 | 27 lbs | **JB509613154** | Price |

## Suburban Precision Vises

- High precision, solid one-piece steel construction with body and jaws hardened to Rc 58-62
- Angled center channel provides extra holding capacity
- Movable jaw pulls into base at 45 to 60°
- V-237 Models have a ratchet mechanism with notched pockets and one-piece drawbar
- Jaw can be opened and closed without unbolting vise from work surface
- End pockets for convenient clamping on V-237 models and larger
- V-237 Models and smaller have horizontal and vertical vees in the movable jaw



| Jaw Width (in.) | Vise Body Width (in.) | Vise Length (in.) | Capacity (in.) | Jaw Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 2 | 2 | 5-7/8 | 3-1/4 | 1 | 6 lbs | **NJ50V225** | Price |
| 2 | 2 | 5-7/8 | 3-1/4 | 1 | 6 lbs | **NJ50V225S0** | Price |
| 2-5/8 | 3 | 7-1/2 | 4-3/4 | 1-5/16 | 11 lbs | **NJ50V237** | Price |
| 2-5/8 | 3 | 7-1/2 | 4-3/4 | 1-5/16 | 11 lbs | **NJ50V237S1** | Price |
| 3 | 4 | 11 | 7 | 1-7/16 | 20 lbs | **NJ50V411** | Price |
| 3 | 4 | 11 | 7 | 1-7/16 | 20 lbs | **NJ50V411S2** | Price |
| 3-7/16 | 6 | 12 | 8 | 1-11/16 | 40 lbs | **NJ50V612** | Price |
| 3-7/16 | 6 | 12 | 8 | 1-11/16 | 40 lbs | **NJ50V612S2** | Price |

## Suburban Sine Vises

- High precision, steel construction with body and jaws hardened to Rc 58-62
- Angled center channel provides extra jaw capacity
- Movable jaw pulls into base at 45 to 60°
- Dual .200 minute steps built into the gage roll
- SV-337 Models have horizontal and vertical vees in the movable jaw and a ratchet mechanism with notched pockets and one-piece drawbar
- One locking strap is included with each sine vise
- SineSet® models bolt directly to SineSet® sine plate or compound sine plate of the same series. S1 models also bolt to AP-664-S1 90° conversion plate



| Dim. (in.) | Center Distance of Rolls (in.) | Square & Parallel (in.) | Capacity (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 7-1/2 x 3 x 3-5/8 | 5.000 within .0002 | .0002 | 4-3/4 | 17 lbs | **NJ50SV337** | Price |
| 7-1/2 x 3 x 3-5/8 | 5.000 within .0002 | .0002 | 4-3/4 | 17 lbs | **NJ50SV337S1** | Price |
| 11 x 4 x 4-5/8 | 10.000 within .0002 | .0003 | 7 | 39 lbs | **NJ50SV411** | Price |
| 11 x 4 x 4-5/8 | 10.000 within .0002 | .0003 | 7 | 39 lbs | **NJ50SV411S2** | Price |
| 12 x 6 x 5-1/8 | 10.000 within .0002 | .0003 | 8 | 60 lbs | **NJ50SV612** | Price |
| 12 x 6 x 5-1/8 | 10.000 within .0002 | .0003 | 8 | 60 lbs | **NJ50SV612S2** | Price |

## Palmgren Ground Drill Press Vises

- A precision vise for close-tolerance applications
- Finely ground after machining for squareness and parallelism on five sides to 0.0002 of an inch
- Replaceable Steel Jaw plates are both plain
- May be mounted on the base of either side or placed on end
- Made from 30,000 PSI tensile strength, fine grade cast iron
- Life Guarantee



| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Vise Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 2-7/16 | 3-1/8 | 1-1/2 | 2-1 2 | 6 lbs | **JB5022G** | Price |
| 4 | 4 | 1-3/4 | 3-1/4 | 18 lbs | **JB5014G** | Price |

## Precision Ground or Machined Ground Drill Press Vises

- 90° vertical and horizontal grooved jaws
- Can be used on all sides and end
- Machine parallel and square
- High tensile strength

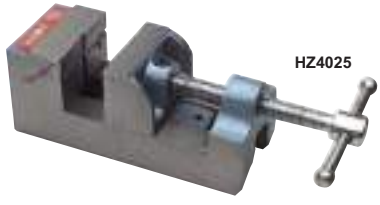


| Type - Machined Ground | | | | | | |
|---|---|---|---|---|---|---|
| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Overall Length (in.) | Weight | Order No. | Price |
| 2-1/2 | 2-9/16 | 1-1/2 | 7-1/4 | 7 lbs | **HX51P250** | Price |
| 3-1/2 | 3 | 1-3/4 | 8-5/8 | 10 lbs | **HX51P350** | Price |
| 4-1/2 | 4 | 1-3/4 | 10-3/4 | 12 lbs | **HX51P400** | Price |

| Type - Precision Ground | | | | | | |
|---|---|---|---|---|---|---|
| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Overall Length (in.) | Weight | Order No. | Price |
| 3 | 3 | 1-3/8 | 7-1/2 | 10 lbs | **HX51P130** | Price |

## Standard & Angle Drill Press Vises

- Standard & angle drill press vises are precision ground on sides and front side face - this permits additional mounting positions for drilling, tapping, or reaming
- Body and sides are ground perfectly parallel
- Sturdy main casting is 30% heavier than conventional models
- Lifetime warranty

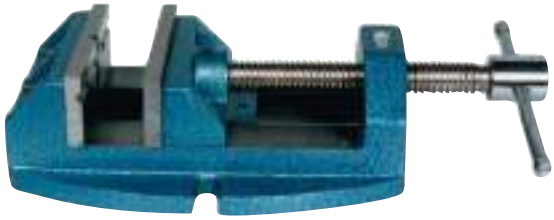



| Type - Standard Drill Press Vise | | | | | |
|---|---|---|---|---|---|
| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Weight | Order No. | Price |
| 2-1/2 | 2-9/16 | 1-1/2 | 6.2 lbs | **HZ4025** | Price |
| 3 | 3-1/8 | 1-3/4 | 10 lbs | **HZ4030** | Price |

| Type - Angle Drill Press Vise | | | | | |
|---|---|---|---|---|---|
| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Weight | Order No. | Price |
| 2-1/2 | 2-1/2 | 1-1/2 | 12 lbs | **HZ4025A** | Price |
| 3-1/8 | 3-1/8 | 1-3/4 | 17 lbs | **HZ4030A** | Price |

## Versatile Drill Press Vises

- Rugged design and large workload capacity
- Made from graded case iron
- Machined to flatness 0.0005
- Ground vise bed for a smooth, consistent jaw movement
- Sturdy main casting provides extra strength
- Lifetime warranty



| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 4 | 4 | 2-1/8 | 12 lbs | **HZ401345** | Price |
| 5 | 5 | 2-1/8 | 24 lbs | **HZ401360** | Price |
| 6 | 6-3/4 | 2-1/8 | 28.5 lbs | **HZ401460** | Price |

## PALMGREN Drill Press Vise with Mounting Lugs

- Precision engineering keeps the bed and base of the vise parallel to 0.001 in
- Replaceable Steel Jaws
- Made from 30,000 PSI tensile strength, fine grain cast iron
- The replaceable jaw on the fixed side is horizontally and vertically grooved for holding round parts
- Center of base is open
- Base and bed parellel to 0.001”
- Lifetime Warranty



| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Vise Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 3 | 3 | 1-1/2 | 2-5/8 | 7 lbs | **JB50320** | Price |

## PALMGREN Utility Drill Press Vise

- The moveable jaw is grooved vertically and horizontally for holding round parts
- The base includes three 1/2” bolt lugs for versatility in mounting
- Base to top of jaws are parallel to 0.001”
- Center of base is open
- Made from 30,000 PSI tensile strength, fine grade cast iron
- Lifetime Warranty



| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Vise Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 3-1/2 | 1-5/8 | 1-1/2 | 1-3/4 | 2 lbs | **JB507** | Price |

## Utility Drill Press Vise

- Sturdy and compact, with longer jaw opening
- Base includes three bolt lugs for versatility in mounting
- Steel adjusting screw has a coarse pitch Acme thread for fast action
- Moveable jaw is grooved vertically
- Limited Warranty



| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Vise Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 3-1/2 | 4 | 1-3/4 | 2-5/8 | 11 lbs | **HX51P770** | Price |

## BESSEY Drill Press Vise

- Serrate jaws
- Elongated holes for easy fastening onto a drill press or work surface



| Model No. | Jaw Width (in.) | Jaw Opening (in.) | Throat Depth (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| BV-DP40 | 4 | 4-1/4 | 1-1/8 | 9 lbs | **SG75BVDP40** | Price |

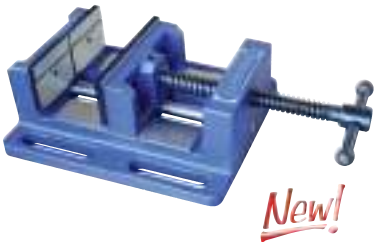
## Drill Press Vises with Slotted Base

- Body and slide of quality cast iron
- Main screw with handle of high quality steel
- Replaceable steel jaw plates — plain face
- Slotted base for easy bolting to drill table
- HX51E3 available with 4 bolt lugs on side only



| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 3 | 3 | 1-1/8 | 7 lbs | **HX51E3** | Price |
| 4 | 3-15/16 | 1-1/8 | 10 lbs | **HX51E4** | Price |
| 5 | 4-7/8 | 1-5/16 | 16 lbs | **HX51E5** | Price |
| 6 | 5-1/2 | 1-7/16 | 23 lbs | **HX51E6** | Price |

## RAPIDHOLD™ Low Profile Drill Press Vises




- Designed for dilling, tapping and reaming operations
- Base has four 1/2” shoulder slots for quick, easy positioning on drill press tables
- Moveable jaw is flat and the fixed jaw has a vertical and horizontal v-groove cut
- Replaceable jaws

| Model No. | Jaw Opening (in.) | Jaw Depth (in.) | Jaw Width (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 8461 | 3 | 1-1/8 | 3 | 10 lbs | **HT968461** | Price |
| 8462 | 4 | 1-1/2 | 4 | 15 lbs | **HT968462** | Price |
| 8464 | 6 | 2 | 6 | 34 lbs | **HT968464** | Price |
| 8465 | 8 | 2 | 8 | 54 lbs | **HT968465** | Price |

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## WILTON Low Profile Drill Press Vises



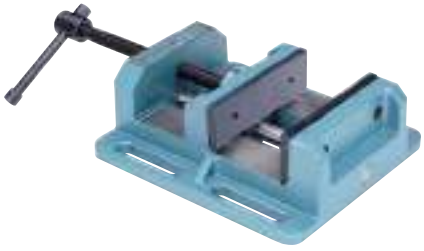
- Low profile clearance for increased working room on machine table
- Hardened V Grooved Jaws hold round shaped objects both vertically and horizontally
- Fine grain cast iron casting and hardened steel vise jaws
- Highly accurate with beds and bases parallel to ±.001”
- Base has four 1/2” shoulder slots for quick, easy positioning on the machine table
- 1 Year Warranty



| Model No. | Size (in.) | Jaw Opening (in.) | Jaw Width (in.) | Jaw Depth (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| LP3 | 3 | 3 | 3 | 1-1/8 | 8 lbs | **HZ4011743** | Price |
| LP4 | 4 | 4 | 4 | 1-1/2 | 12 lbs | **HZ4011744** | Price |
| LP6 | 6 | 6 | 6 | 2 | 30 lbs | **HZ4011746** | Price |
| LP8 | 8 | 8 | 8 | 2 | 50 lbs | **HZ4011748** | Price |

## PALMGREN INC Low-Profile Drill Press Vises

- Base and bed are parallel to 0.001 in
- Four slots for secure mounting to machine table
- Lifetime Warranty



| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Vise Height (in.) | Base Size (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 4 | 4 | 1-5/8 | 2-3/8 | 6-15/16 x 6-1/2 | 11 lbs | **JB50DPL40** | Price |
| 6 | 6 | 1-3/4 | 3 | 9-5/8 x 8-7/8 | 15 lbs | **JB50DPL60** | Price |
| 8 | 8 | 1-3/4 | 3-3/8 | 13-3/4 x 11-7/16 | 49 lbs | **JB50DPL80** | Price |

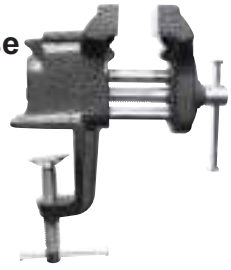
## BESSEY Vacuum Base Vise



- Lightweight cast aluminum body
- 360° swivel rotation head for easy positioning
- Convenient vacuum base for mounting on any smooth surface

| Model No. | Jaw Opening (in.) | Throat Depth (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|
| BV-VB | 2-3/4 | 3 | 4.5 lbs | **SG75BVVB** | Price |

## BESSEY Light Duty Clamp On Vise



- Cast in pipe jaws
- Double steel guide bars
- Clamps on work surfaces up to 1-1/2”
- 1” Pipe Capacity

| Model No. | Jaw Width (in.) | Jaw Opening (in.) | Throat Depth (in.) | Pipe Capacity (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| BV-C030 | 3 | 3 | 1-1/2 | 3/4 | 5 lbs | **SG75BVCO30** | Price |

## BESSEY Workshop Vise



- Serrated jaws
- 270° Swivel base
- Built in anvil
- (4) Mounting holes
- (1) Lockdown

| Model No. | Jaw Width (in.) | Jaw Opening (in.) | Throat Depth (in.) | Pipe Capacity (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| BV-HW45 | 4-1/2 | 4-1/2 | 1-3/4 | 1 | 11 lbs | **SG75BVHW45** | Price |

## Vise Clamps

### For Fast and Convenient Set-Up



- Holds work firmly to drilling table and work bench
- Easy locking and quick release handle
- Mounts with threaded screw and ring nut

| Size (in.) | Order No. | Price |
|---|---|---|
| 6 | **KP70VC6** | Price |
| 9 | **KP70VC9** | Price |
| 11 | **KP70VC11** | Price |

## Cross Slide Drill Press Vises



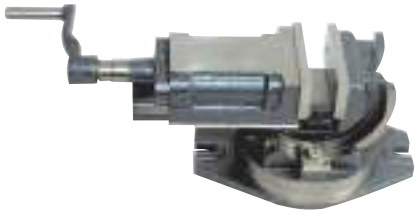
- Accurately moves your workpiece in horizontal and longitudinal for precise positioning
- Cast side knobs accurately dial in .1mm increments
- Hardened V Grooved Jaws hold round shaped objects both vertically and horizontally
- Durable construction with fine grain cast iron castings
- Black oxide coated screw provides consistent clamping pressure
- Durable base has 5 bolt lugs for easy mounting on a machine table



| Model No. | Size (in.) | Jaw Opening (in.) | Jaw Width (in.) | Jaw Depth (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| CS3 | 3 | 3 | 3 | 1-1/8 | 16 lbs | **HZ4011693** | Price |
| CS4 | 4 | 4 | 4 | 1-3/8 | 20 lbs | **HZ4011694** | Price |
| CS5 | 5 | 5 | 5 | 1-1/2 | 45 lbs | **HZ4011695** | Price |
| CS6 | 6 | 6 | 6 | 2 | 59 lbs | **HZ4011696** | Price |
| CS8 | 8 | 8 | 8 | 2 | 77 lbs | **HZ4011698** | Price |

## Universal 2-Way Angle Vises

- Positive locking to withstand heavy loads
- Horizontal swivel movement 360°
- Vertical swivel movement 90°
- Totally enclosed Acme thread screw
- Vises supplied with plain jaws
- Designed for milling, grinding, shaping, drilling, and jig boring
- Vise body made of high grade casting



| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Vise Height (in.) | Vise Length (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 4 | 2-3/4 | 1-5/8 | 5-9/16 | 13-1/4 | 53 lbs | **HY50PT100** | Price |
| 6 | 5 | 2 | 7-3/8 | 17-1/2 | 97 lbs | **HY50PT150** | Price |

## Universal 3-Way Angle Vises

- Angle can be set in 3 dimensions
- Swivels 360° around base
- Vise can be elevated through 90° from horizontal to vertical
- Can be tilted on its lower angle base up to 45° in both right and left
- Workpiece is steady and smooth, in all permissible angle settings
- Ideal for milling, grinding, tapping, chamfering, and inspection
- Precision quality



| Jaw Width (in.) | Jaw Opening (in.) | Jaw Height (in.) | Base Size (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 3-1/8 | 3-1/2 | 1-3/16 | 7 x 9-1/4 | 32 lbs | **JJ55L75AV** | Price |
| 4-1/8 | 4-1/8 | 1-9/16 | 8-3/4 x 11-3/8 | 82 lbs | **JJ55L100AV** | Price |
| 5-1/8 | 5-3/4 | 2-1/16 | 9-7/8 x 12-7/8 | 96 lbs | **JJ55L125AV** | Price |

## Super Precision 3-Way Tilting Machine Vises

- Perfect for 3 axis jobs in milling, drilling, grinding, shaping and jig boring
- Manufactured from close grain high tensile cast iron
- Jaw plates, hardened and ground
- Hardness of jaws – 55 ±3 HRC
- No jaw tilt
- 360° Swivel bases
- Accuracy indexed for 3 way angular work
- All ground surfaces are made to close accuracies
- 90° Vertical indexing
- 45° Tilting range on either side
- Lifetime warranty



| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 2 | 2 | 1 | 9.95 lbs | **HZ42TLTSP50** | Price |
| 3 | 3 | 1-5/16 | 25.85 lbs | **HZ42TLTSP75** | Price |
| 4 | 4 | 1-1/2 | 52.265 lbs | **HZ42TLTSP100** | Price |
| 5 | 5 | 1-3/4 | 83.6 lbs | **HZ42TLTSP125** | Price |
| 6 | 6 | 1-3/4 | 118.8 lbs | **HZ42TLTSP150** | Price |

## 2 Pc. Milling Machine Vises

- Utilize full length of machine bed
- Work locates directly on bed for rigidity
- Soft jaws locate on bed and can be keyed to table slots for accuracy
- Quarter turn of detachable handle clamps work firm enough for heaviest cuts
- Hardened & ground jaws
- Precision machined
- Highest quality casting



| Jaw Width (in.) | Jaw Depth (in.) | Key Slot Width (in.) | Clamp Travel | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 6 | 3 | 11/16 | 3/8 | 29 lbs | **HP50255006** | Price |
| 8 | 3-1/4 | 13/16 | 1/2 | 53 lbs | **HP50255008** | Price |

## Angle Swive Vises

New!

- Handy robust angle vises are indispensable for work that requires frequent angle setups, including drilling, tapping, reaming, milling, and grinding
- Base and bed are parallel to 0.004 in with the jaw surface square to 0.002
- Angle hinge is graduated in 1 degree increments from 0 to 90 degrees
- Hinge pin hole is precision drilled and reamed for smooth accurate angle settings, with no lateral end play
- Can be mounted with or with out the swivel base
- Both the swivel base and angle vise feature two 5/8 in bolt slots for mounting
- Lifetime Warranty



| Jaw Opening (in.) | Jaw Width (in.) | Throat Depth (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 4 | 4 | 1-3/4 | 37 lbs | **JB509611405** | Price |
| 7 | 6 | 2 | 87 lbs | **JB509611602** | Price |

## Angle & Angle Swivel Vises

- Designed for precision work at angles from 0° to 90° vertical
- Locks with four bolts and two side plates
- Vise body calibrated for vertical angle reading
- Hinge pin hole of body vise precision drilled and reamed to avoid lateral play
- Mounting holes included with vise
- Cast iron construction
- HZ51P250AS & HZ51350AS - Swivel Base Models







| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Vise Length (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 2-3/16 | 2-1/2 | 1-1/2 | 9 | 10 lbs | **HX51P250A** | Price |
| 2-1/2 | 2-1/2 | 1-1/2 | 9 | 12 lbs | **HX51P250AS** | Price |
| 3 | 3 | 1-3/4 | 12 | 22 lbs | **HX51P350AS** | Price |
| 3-1/2 | 3 | 1-3/4 | 12 | 18 lbs | **HX51P350A** | Price |
| 4-3/8 | 4 | 1-3/4 | 13-1/2 | 22 lbs | **HX51P400A** | Price |

## Cradle Style Angle Drill Press Vises

- Designed for applications including drilling, tapping and reaming requiring angle setup
- Cradle design with 90° vertical indexing, scaled in 1° increments
- Side tommy bar allows secure locking at any increment from 0° - 90°
- Pin hard stops at 0°, 15°, 30°, 45°, 60°, 75° and 90°
- Durable construction with fine grain cast iron castings and hardened smooth vise jaws
- Lifetime warranty



| Model No. | Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| CR3 | 3 | 3 | 1-1/8 | 12 lbs | **HZ4011753** | Price |
| CR4 | 4 | 4 | 1-1/2 | 17 lbs | **HZ4011754** | Price |

## Angle Vises

- Cradle base has a 90° vertical scale in 1° graduations
- Quick setup at 0°, 30°, 45°, 60°, and 90° with positive pin stops
- Hand-tightened mechanism allows secure locking in all positions
- Base includes 1/2" shoulder slots for bolting to drill press



| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Height at 0 deg. (in.) | Base Size (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 3 | 3 | 1-1/8 | 3-3/8 | 5-9/16 x 6-3/8 | 13 lbs | **JB50AVC25** | Price |
| 4 | 4 | 1-1/2 | 4-5/16 | 7 x 7-3/8 | 18 lbs | **JB50AVC35** | Price |

## 2-Way Cross Slide Vises

- Secures work piece firmly and accurately on drill press table
- Positive positioning in two coordinates
- Graduated controls for precise adjustment
- Quality construction with Acme threads, adjustable gibs, cast iron body, mounting lugs, independent cross feed and transverse
- Easy to operate - heavy duty construction



| Jaw Width (in) | Jaw Depth (in) | Longitudinal Travel (in) | Overall Height (in) | Cross Travel (in) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 3 | 1-1/8 | 2-3/4 | 5 | 3 | 14 lbs | **HX51TCV3** | Price |
| 4 | 1-7/16 | 3-3/4 | 6 | 4 | 21 lbs | **HX51TCV4** | Price |
| 5 | 1-9/16 | 4-3/4 | 7 | 5 | 30 lbs | **HX51TCV5** | Price |

## Cross Slide Vise

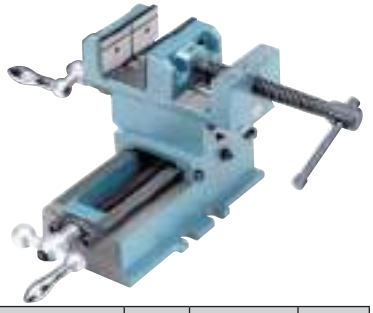
- This unit accurately moves the work in two directions along the X and Y axis
- Ideal for positioning form one machine location to another without losing squareness or alignment
- The cross slide vise gets its strength from the 30,000 PSI tensile strength fine grain cast iron it's made from
- Feed screws are precision cut acme threads
- Built on the cross-slide base
- Dials are graduated in 0.001 in increments
- Counter-balance steel ball crank handles that clear the machine table
- Easily convert from a cross slide vise to a traditional vise by simply removing the screws and the base
- Lifetime Warranty



| Jaw Width (in.) | Jaw Opening (in.) | Jaw Height (in.) | Overall Height (in.) | Base Dim. (in.) | Travel (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 3 | 3 | 1-3/4 | 5-1/2 | 7-5/8 x 6-5/8 | 3-1/2 x 4 | 29 lbs | **JB5032** | Price |

## Cross Slide Vises

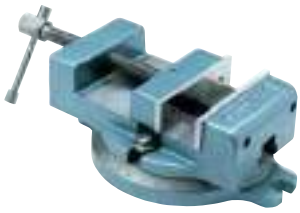
- For quick and precise X and Y axis positioning
- Locking levers on both the X and Y axis for securing the vise into position
- Ball-crank handles aid in rapid movement
- Three bolt lugs on each side of the base to match most table configurations
- CV30 and 60 have knurled jaw faces
- CV80 has smooth jaw faces
- Lifetime warranty



| Jaw Width (in.) | Jaw Opening (in.) | Jaw Height (in.) | Vise Height (in.) | Base Size (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 3 | 3 | 1-1/4 | 4-1/2 | 8-1/4 x 6 | 17 lbs | **JB50CV30** | Price |
| 6 | 6 | 1-7/8 | 6-1/2 | 11 x 6-3/4 | 62 lbs | **JB50CV60** | Price |
| 8 | 8 | 1-7/8 | 7-5/8 | 12-1/4 x 7-5/8 | 77 lbs | **JB50CV80** | Price |

## PALMGREN INC Low Profile Machine Vises

- A rugged vise designed for low clearance applications
- Model 9618422 comes witha 360 degree swivel base
- Base is graduated in 1 degree increments
- This USA made vise has a lifetime guarantee
- Made from 30,000 PSI tensile strength, fine grain cast iron
- Used on drill presses, mill/drills, milling machines, and grinders
- Base and bed are parallel to 0.001 in
- Center of base is open for holding work through the body of the vise
- For locating and mounting on machine table, the base has 7/16 in keyway and two bolt slots



| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Vise Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 4-1/2 | 4 | 1-1/4 | 2-3/8 | 16 lbs | **JB50425** | Price |
| 4-1/2 | 4 | 1-1/4 | 3-1/2 | 23 lbs | **JB50425B** | Price |

## PALMGREN INC Dual Force Precision Standard Machine Vises

Recommended for milling, drilling, boring, tapping and finishing operations. Can be used on your machining centers as well as basic manual machine tools.

**Features:**

- Equipped with Dual Force anti-lift mechanism
- Friction reducing needle bearings help to increae clamping pressure
- Thrust bearing
- Hardened vise bed & jaw plates
- Semi-Hard steel screw
- Extra large opening
- 70,000 PSI ductile iron castings
- Model 9626604 includes swivel base
- Lifetime Guarantee



| Jaw Width (in.) | Jaw Depth (in.) | Jaw Opening (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 4 | 1.3278 | 6 | 31 lbs | **JB509625927** | Price |
| 5 | 1.50 | 7 | 47 lbs | **JB509625925** | Price |
| 6 | 1.752 | 7-1/2 | 75 lbs | **JB509625928** | Price |
| 6 | 1.752 | 8.9 | 80 lbs | **JB509625929** | Price |
| 6 | .709 | 8-3/4 | 83 lbs | **JB509626608** | Price |
| 6 | .709 | 8-3/4 | 109 lbs | **JB509626604** | Price |
| 8 | .953 | 10 | 155 lbs | **JB509625930** | Price |

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## PALMGREN INC Angle Milling Vise

New!

- For milling or other demanding machine applications
- Solid iron construction with stress relieved design
- Removable swivel base graduated in 1 degree increments a full 360 degrees
- Replaceable smooth jaw plates constructed of hardened and ground tool steel
- An 11/16" key for the angle and swivel base
- Trapezoidal-thread lead screw with large cast-iron crank handle
- Made from FC25 fine-grain, cast iron
- Oversize angle hinge eliminates horizontal play
- Base and bed parallel to 0.004 in with jaw surface square to 0.002 in
- Less than 0.004 in (0.1mm) jaw deflection at 4,000 lbs. clamping pressure
- Lifetime Warranty



| Jaw Opening (in.) | Jaw Width (in.) | Weight | Order No. | Price |
|---|---|---|---|---|
| 6 | 5 | 110 lbs | **JB509622604** | Price |

## PALMGREN INC Swivel Machine Vises

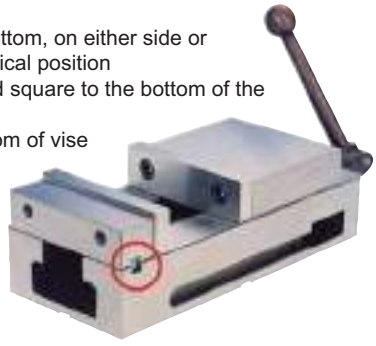
- Intended for demanding vertical and horizontal machining tasks, such as milling and shaping, where strong clamping and secure mounting are all requirements
- The fixed jaw is grooved horizontally and vertically for holding round stock
- This vise has a replaceable steel jaw plate option
- This USA made vise has a lifetime guarantee
- Models 9618402 and 9618602 have a 360 degree swivel base indicated in 1 degree increments
- Can be used on drill presses, mills/drills, milling machines and grinders
- Made from 30,000 PSI tensile strength, fine grade cast iron
- Base and bed are parallel to 0.001 in
- Center of base is open for holding work through the body of vise



| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Vise Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 4 | 4 | 1-3/4 | 4-3/4 | 23 lbs | **JB50410B** | Price |
| 6 | 6 | 2 | 5-1/2 | 47 lbs | **JB50610B** | Price |

## PALMGREN INC Dual Force Precision CNC Machine Vise

- Built for use on all types of CNC machines
- Ideal for applications that require multiple vises to be mounted parallel to each other
- Can be mounted on its base/bottom, on either side or positioned on its end in the vertical position
- Both sides are precision ground square to the bottom of the vise within 0.0004 in
- Parallelism of keyways on bottom of vise bed to the jaw face +/- 0.0008˝
- 80,000 PSI ductile iron castings
- Hardened jaw plates
- Lifeteime Warranty



| Jaw Width (in.) | Jaw Depth (in.) | Jaw Opening (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 4 | - | 5 | 46 lbs | **JB509626600** | Price |
| 6 | .709 | 6 | 81 lbs | **JB509626110** | Price |

## PALMGREN INC Milling Machine Swivel Vise

- An economical, robust vise for a variety or milling and other demanding machining applications
- An extra large jaw opening
- Vises can be used with or without the 360 degree swivel base
- Base and bed parallel to .002"in
- Hardened moveable jaw plates are square to .0015"
- Hardened and ground steel bed
- 11/16" keyway in vise base and swivel base
- Lifetime Warranty

New!



| Jaw Opening (in.) | Jaw Width (in.) | Throat Depth (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 4 | 4 | 1-1/2 | 31 lbs | **JB509625404** | Price |

## RAPIDHOLD 6" Precision Milling Machine Vise

New!

- Ductile iron body
- Stationary jaw bolts down from top
- Hardened vise bed and jaw plate
- Sealed bearing system increase bearing life
- Rigid main screw design allows for higher torque loads and clamping force



| Weight | Order No. | Price |
|---|---|---|
| 75 lbs | **HT967268** | Price |

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## WORLD CLASS QUALITY Precision Machine Vises

- Flame hardened bed for wear resistance
- Hardened and ground jaw plates
- Ground surface top and bottom of vise bed, tops of both jaws in pairs, all jaw plate mounting surfaces
- Needle bearing thrust collar. Cuts friction and adds clamping power.
- Spherical segment eliminates jaw lifting and work piece tilting
- Hardened lead screw with ground threads
- Swivel handle
- Coolant trough on vise body and swivel base
- **Model HT71-ATW60MC is NC/CNC vise**

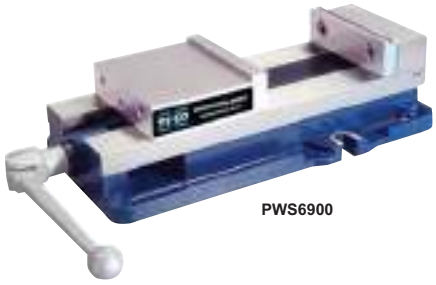


| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth (in.) | Vise Length (in.) | Vise Body Width (in.) | Overall Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 4 | 4 | 1-1/8 | 12-9/16 | 5-3/4 | 3-3/8 | 46 lbs | **HT71ATW40S†** | Price |
| 6 | 5-1/2 | 1-1/2 | 16-3/4 | 8-1/4 | 4-3/8 | 105 lbs | **HT71ATW60S** | Price |
| 6 | 5-1/2 | 1-1/2 | 16-3/4 | 8-1/4 | 4-3/8 | 63 lbs | **HT71ATW60MC** | Price |
| 8 | 7-1/2 | 2 | 21-3/4 | 11 | 5-5/16 | 225 lbs | **HT71ATW80P** | Price |

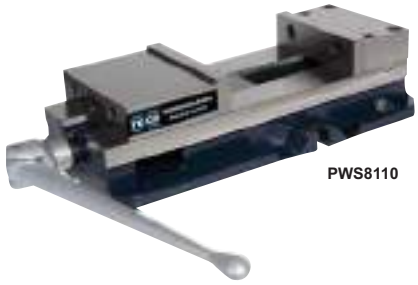
**†Swivel Base**

## TE-CO Single Station Vises

- Powder coated paint resists flaking and peeling
- Hardened vise bed and jaw plates
- Sealed and lubricated needle roller thrust bearing for maximum life and minimum torque
- Repeatability within .001”
- Outsied rails of body are machined within 0.0005” square to jaw



**PWS6900**



**PWS8110**

| Size (in.) | Width (in.) | Height (in.) | Jaw Opening (in.) | Clamp Force | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 6 | 5.94 | 4.375 | 9 | 8200 lbs | 81 lbs | **HT65PWS6900** | Price |
| 8 | 8 | 5.275 | 11 | 12000 lbs | 176 lbs | **HT65PWS8110** | Price |

## TE-CO 6" Single Station TECO Vise

### FREE 52 Pc. Clamping Kit with purchase of vise a $105 Value.

**Features:**

- Up to 8,200 lbs. of clamping force
- Bed height matched to size 2.875” (73.025mm) +/- 0.0005”
- Repeatability within 0.001”
- Hardened vise bed and jaw plates
- Sealed bearing system reduces clamping pressure and increases bearing life
- Stationary jaw has machined keyway for alignment
- Limited Life Time Warranty

**52 Pc. Clamping Kit Includes:**

- (4) Coupling nuts
- (6) T-slot nuts
- (24) Studs (4 ea: 3”, 4”, 5”, 6”, 7”, 8”)
- (6) Serrated end clamps
- (6) Flange nuts
- (6) Step blocks
- Fitted rack





| Order No. | Price |
|---|---|
| **HT65SP781** | Price |

**F.O.B. Warren, MI • Additional Shipping Charges May Apply**

## ROHM RB-K Vises

- Operated mechanically with power intensification
- Stepwise clamping force presetting
- Clamping without power intensification for deformation-sensitive work-pieces possible
- High precision due to precise jaw guides
- Rapid clamping range adjustment via locking pin
- Better coolant and chip flow
- High wear resistance due to hardenend jaw guides
- Can be used on a rotation plate with angular spacing
- Ground area with longitudinal groove for accurate fixing on machine table
- Clamping option with clamps
- Enclosed spindle



| Model No. | Size (in.) | Jaw Width (in.) | Jaw Depth (in.) | Vise Height (in.) | Key Slot Width (in.) | Clamping Force | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 179075 | 4 | 3-5/8 | 1-7/32 | 3-37/64 | 33/64 | 5600 lbs | **HK80179075** | Price |
| 179076 | 6 | 4-29/64 | 1-7/32 | 3-13/16 | 33/64 | 6700 lbs | **HK80179076** | Price |
| 179077 | 8 | 5-5/16 | 1-17/64 | 4-13/32 | 33/64 | 8975 lbs | **HK80179077** | Price |
| 179078 | 12 | 6-19/64 | 1-59/64 | 5-15/64 | 43/64 | 11200 lbs | **HK80179078** | Price |
| 179079 | 13-3/4 | 7-7/8 | 2-19/32 | 6-47/64 | 53/64 | 22400 lbs | **HK80179079** | Price |

## ROHM RB-M Vises



- Mechanically operated via threaded spindle
- High precision due to precise jaw guides
- Rapid clamping range adjustment via locking pin
- Better coolant and chip flow
- High wear resistance due to hardenend jaw guides
- Can be used on a rotation plate with angular spacing
- Ground area with longitudinal groove for accurate fixing on machine table
- Clamping option with clamps
- Enclosed spindle

| Model No. | Size (in.) | Jaw Width (in.) | Jaw Depth (in.) | Vise Height (in.) | Key Slot Width (in.) | Clamping Force (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 179080 | 4 | 3-5/8 | 1-7/32 | 3-37/64 | 33/64 | 4500 lbs | **HK80179080** | Price |
| 179081 | 7 | 4-29/64 | 1-7/32 | 3-13/16 | 33/64 | 5600 lbs | **HK80179081** | Price |
| 179082 | 9 | 5-5/16 | 1-17/64 | 4-13/32 | 33/64 | 7800 lbs | **HK80179082** | Price |
| 179083 | 13 | 6-19/64 | 1-59/64 | 5-15/64 | 43/64 | 10100 lbs | **HK80179083** | Price |
| 179084 | 14-1/2 | 7-7/8 | 2-19/32 | 6-47/64 | 53/64 | 12300 lbs | **HK80179084** | Price |

## PALMGREN Dual Force Mechanical Booster Vises

- Equipped with a patented mechanical booster and adjustable clamping force system that delivers secure, accurate and efficient clamping without the need to over tighten the vise spindle
- The adjustable clamping pressure provides consistent, continuous force of up to 11,200 pounds (50KN) maximum making part holding simple and easy
- Precise clamping force regulation (patented) is achieved by turning the force ring to one of three graduation settings and a simple turn on the handle provides precise clamping pressure every time
- Adjustable clamping pressure provides consistent, continuous force of up to 11,200 pounds (50KN) maximum making part holding easy
- Mechanical booster (patented) is equipped with an internal disc spring design that guards against shocks and vibrations maintaining consistent pressure during the machining operation
- Incorporates the Dual-Force design of all directional alignment with a 1/2 pound of downward force for every pound of horizontal force
- Precision ground and hardened jaw plates and hardened vise body
- Lifetime Warranty




| Overall Dimensions (LxWxH) (in.) | Jaw Width (in.) | Clamp Force | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 16.84 x 4.095 x 5.119 | 4 | 5620 lbs | 66 lbs | **JB509625954** | Price |
| 19.488 x 5 x 4.134 | 5 | 7869 lbs | 102 lbs | **JB509625955** | Price |
| 25 x 6.339 x 6.614 | 6 | 10117 lbs | 166 lbs | **JB509625956** | Price |
| 28.071 x 7.953 x 7.008 | 8 | 11241 lbs | 238 lbs | **JB509625958** | Price |

## PALMGREN Dual Force Double Station Vise

- Allows for multiple part workholding for better spindle utilization, reduced tool change time, and reduced machine travel from part to part
- 80,000 PSI ductile iron casting deliver the strength, rigidity and long term accuracy required while absorbing machine vibration
- 1/2 pound of downward force for every pound of horizontal force on both moveable jaws
- Can be mounted horizontally or vertically
- One handle operates the two moveable jaws
- Unit can clamp two of the same size parts or different size parts
- Lifetime Warranty




| Jaw Opening (in.) | Jaw Width (in.) | Throat Depth (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 0 - 9.252 | 4 | 1.496 | 44 lbs | **JB509625935** | Price |

## PALMGREN Dual Force Self Centering Vise

- Can be used on both vertical as well as horizontal machining centers
- Centering accuracy from minimum to maxiumum opening is .0006” with .0002” repeatablility
- Both moveable jaws incorporate the Dual Force design with zero deflection and lift while providing quick, accurate centering of the workpiece
- Precision ground on all sides
- Equipped with Dual Force anti-lift mechanism in both jaws
- Height tolerance is within ±0.0004” so several vises can be lined up parallel to each other
- 80,000 PSI ductile iron castings deliver the strength, rigidity and long term accuracy required while absorbing machine vibration
- Hardened bed ways
- Lifetime Warranty




| Jaw Opening (in.) | Jaw Width (in.) | Throat Depth (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 2.283 - 12.36 | 6 | 1.752 | 114 lbs | **JB509625934** | Price |

## ROHM MSR Machine Vises with Draw-Down Jaws

- For universal use on milling machines and machining centers
- Fast clamping range adjustment via bolt system
- Complete with clamping wrench, workpiece stop and four clamping claws
- Draw-down jaws
- Hardened steel body (60 HRC)
- Clamping repeatability 0.02mm

New!



| Model No. | Size (in.) | Jaw Width (in.) | Jaw Depth (in.) | Jaw Opening (in.) | Clamp Force | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 161828 | 5 | 4.921 | 1.26 | 5.906 | 6600 lbs | 28 lbs | **HT95161828** | Price |
| 161827 | 6 | 5.906 | 1.575 | 7.874 | 11000 lbs | 56.4 lbs | **HT95161827** | Price |
| 161826 | 6 | 5.906 | 1.575 | 11.811 | 11000 lbs | 65 lbs | **HT95161826** | Price |
| 161825 | 7 | 6.89 | 1.693 | 15.748 | 13200 lbs | 112.9 lbs | **HT95161825** | Price |

## PALMGREN Self Centering Vise

- Ideal to use with drilling and milling machines where quick, accurate centering of the work piece below the spindle is required
- Moveable jaws are mounted on precision ground and hardened guide rails
- Constructed of close grained, high tensile strength fine cast iron
- Each vise comes with three sets of 4 in jaws, 1 pair of steel hardened, 1 pair of steel soft, and 1 pair of steel step jaws
- Lifetime Warranty



New!

| Jaw Opening (in.) | Jaw Width (in.) | Throat Depth (in.) | Vise Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 4 | 4 | 3/4 | 3-3/8 | 25 lbs | **JB509615404** | Price |

## RAPTOR 100mm Self Center Vise

- Tolerance +/-0.013 (0.0005)
- Repeatability 0.001
- Jaw adjust from either end of vise
- Jaws opening capability from 2.50”/63.4mm to 5.62”/142.8mm
- Segment screw for added rigidity
- Loc-Down screws to secure vise in place and allows for quick change capability
- Utilizes two dowel pins: one for centering and one for locating
- Clamping rails

New!



| Model No. | Jaw Opening (in.) | Overall Height (in.) | Vise Body Width (in.) | Vise Height (in.) | Vise Length (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| RW502 | 2.50 | 2.971 | 3.937 | 1.969 | 6.50 | 15 lbs | **RW10RW502** | Price |

## KURT Self-Centering Vises

- Designed for 5-axis machining
- Repeatability within ±0.0002”
- Reversible, machinable jaws
- Users can machine in a step for higher accuracy, eliminating the need for parallels
- Clamp parts on I.D. or O.D.
- 2-1/2” maximum jaw width
- Tall jaws provide better spindle clearance
- Flexible mounting options

New!



| Model No. | Vise Length (in.) | Vise Width (in.) | Jaw Depth (in.) | Jaw Ht. (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| SCMX250 | 6.11 | 2.50 | 0.940 | 1.50 | 10 lbs | **HT80SCMX250** | Price |
| SCMX425 | 9.12 | 4 | 1.125 | 2.25 | 30 lbs | **HT80SCMX425** | Price |

## KURT 5 Axis Riser Base Kits

New!

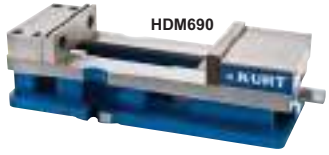


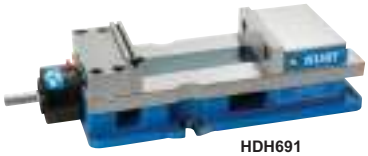
| Model No. | Description | Order No. | Price |
|---|---|---|---|
| SCMX250357C | Includes: (1) riser block, (2) LHSHCS, (2) dowel pins; Used for mounting SCMX250 Vise | **HT80SCMX250356C** | Price |
| SCMX425357C | Includes: (1) riser block, (4) LHSHCS, (4) dowel pins; Used for mounting SCMX425 Vise | **HT80SCMX425356C** | Price |

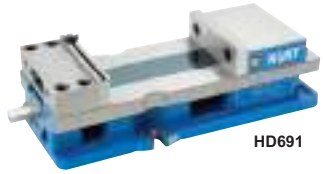
## HD690 & HD691 Series Vises

- Stationary jaw bolts down from top
- No need to remove from table to disassemble vise
- Bolting the stationary from the top reduces the stress in the body and will stay flatter after assembly
- Bolts and locates directly on standard grid plates: 40mm, 50mm or 2”
- Pull type body design reduces stress in the body resulting in more accurate clamping
- Quick change movable jaw
- Adaptable to hydraulic (HD690)
- Uses sine keys for alignment
- GrooveLock® jaw and workstop included
- Body Height matched ±0.0005”


HDH690


HDM690


HDH691


HD691

| Type | Size (in./mm) | Height (in.) | Length (in.) | Jaw Depth (in./mm) | Jaw Opening (in./mm) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| Manual English | 6 | 4-5/8 | 16.810 | 1.735 | 9 | **HT80HD690** | Price |
| Manual Metric | 152.4mm | 4-5/8 | 16.810 | 44.069mm | 228.6mm | **HT80HDM690** | Price |
| Reverse Manual English | 6 | 4-5/8 | 16.810 | 1.735 | 9 | **HT80HD691** | Price |
| Reverse Manual Metric | 152.4mm | 4-5/8 | 16.810 | 44.069mm | 228.6mm | **HT80HDM691** | Price |
| Hydraulic English | 6 | 4-5/8 | 16.810 | 1.735 | 9 | **HT80HDH690** | Price |
| Hydraulic Metric | 152.4mm | 4-5/8 | 16.810 | 44.069mm | 228.6mm | **HT80HDHM690** | Price |
| Reverse Hydraulic English | 6 | 4-5/8 | 16.810 | 1.735 | 9 | **HT80HDH691** | Price |
| Reverse Hydraulic Metric | 152.4mm | 4-5/8 | 16.810 | 44.069mm | 228.6mm | **HT80HDHM691** | Price |

## DX Series Crossover™ Vises

- DX CrossOver™ vises are a combination of AngLock®, Pull-Type and 4 bolt stationary jaw design.
- Hardened vise bed/jaw plates
- Semi-hard steel screw
- 80,000 psi ductile iron body, nut and movable jaw
- Bolts & locates on 40mm, 50mm and 2” grid patterns
- Accepts sine keys for alignment’s (not included)
- Chip evacuation straight through the body
- Screw support held in place with snap rings
- GrooveLock® jaw plate and workstop included
- New brush seal design makes it easier to replace
- Includes chip guard
- Powder coat paint is long lasting and durable
- Lifetime Iron Clad Warranty

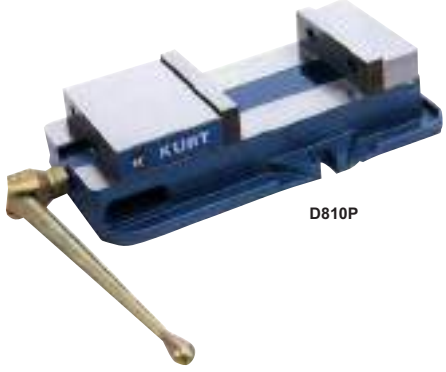
| Clamping Force LBS. | |
|---|---|
| FT LBS. | LBS FORCE |
| 10 | 512 |
| 20 | 1487 |
| 30 | 2464 |
| 40 | 3440 |
| 50 | 4415 |
| 60 | 5391 |
| 70 | 6367 |
| 80 | 7342 |



| Model No. | Size (in.) | Jaw Opening (in.) | Overall Dimension (LxWxH) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| DX4 | 4 | 6.5 | 12.5"L x 4.962"W x 3.365"H | 30 lbs | **HT80DX4** | Price |
| DX6 | 6 | 9 | 16.81"L x 6"W x 4.36"H | 65 lbs | **HT80DX6** | Price |

## AngLock® Vises

- Designed for precision part clamping on basic machine tools such as knee type mills, grinders, and machine centers
- Extremely high accuracy where datums, flatness, and parallelism is important
- Anglock® design assures the movable jaw does not lift
- Hardened vise bed and jaw plates
- 80,000 psi flame hardened ductile iron construction


D810P

| | | | | | | Plain Anglock Vise | | Swivel Anglock Vise | |
|---|---|---|---|---|---|---|---|---|---|
| Vise Size (in.) | OAL (in.) | Width (in.) | Height (in.) | Jaw Opening (in.) | Width w/Swivel (in.) | Order No. | Price | Order No. | Price |
| 8 | 21-3/4 | 9-7/8 | 5-5/16 | 10 | 16-1/8 | **HT80D810P** | Price | **HT80D810S** | Price |
| 10 | 27-1/2 | 13-1/8 | 6-3/8 | 9-3/4 | 18 | **HT80D100P** | Price | - | - |

## HDL Anglock® Vises

**Features:**

- High density long vises with two clamping stations
- Provide repeatable clamping to 0.0002” and combine high density with heavy duty features
- Designed on rugged 80,000 PSI ductile iron body with steel components, provide strength, rigidity and long term accuracy while absorbing machining vibration
- Full 4” opening in each station with standard jaw system
- Maximizes number of parts in the work envelope
- Adjustable pre-load feature allows you to minimize pre-load range thus reducing the turns of the handle to open or close the vise.
- Holding block features the ability to clamp same or dissimilar sized parts and provides pre-loading ability in the front or back jaw.
- **Hydraulic models also available – please inquire.**



## Jaw Kits For HDL Anglock® Vises

| Description | Order No. | Price |
|---|---|---|
| Aluminum Jaw Kit | **HT80HD6ALJAW** | Price |
| Cast Iron Jaw Kit | **HT80HD6CJAW** | Price |
| Hard Jaw Kit | **HT80HDLM6JJAW** | Price |

| Description | Jaw Opening (in.) | Jaw Height (in.) | Jaw Width (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 6" Base Vise With Jaw Kit English | 6 | 1.728 | 6 | 100 lbs | **HT80HDL6J** | Price |
| 6" Base Vise With Aluminum Jaw Kit | 6 | 1.728 | 6 | 83 lbs | **HT80HDLM6AL** | Price |
| 6" Base Vise With Cast Iron Jaw Kit | 6 | 1.728 | 6 | 110 lbs | **HT80HDLM6C** | Price |
| 6" Base Vise With Hard Jaw Kit | 6 | 1.728 | 6 | 97 lbs | **HT80HDLM6J** | Price |

## AngLock® Accessories

- †Bolts required for AJ style Innerlock Jaw Plates
- 3” and 4” Vises use same work stop - 5” and 6” Vises use same work stop
- Jaw plates sold in sets only



| | 4" Vises | | 5" Vises | | 6" Vises | | 8" Vises | | 10" Vises | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Accessory Description** | **Order No.** | **Price** | **Order No.** | **Price** | **Order No.** | **Price** | **Order No.** | **Price** | **Order No.** | **Price** |
| Handle Assembly | **HT80D4010** | Price | **-** | - | **HT80D6010** | Price | **HT80D8010** | Price | **HT80D10010** | Price |
| Low Profile Bolts (4 req.)† | **HT80003353** | Price | **-** | - | **HT80003417** | Price | **HT80003481** | Price | **-** | - |
| Regular Jaw Plates | **HT80D407** | Price | **HT80D504** | Price | **HT80D607** | Price | **HT80D807** | Price | **HT80D1007** | Price |
| Serrated Jaws | **HT80AJ40047** | Price | **-** | - | **HT80AJ60047** | Price | **HT80AJ80047** | Price | **HT80D10047** | Price |
| Soft Jaw Plate | **HT80D407SOFT** | Price | **-** | - | **HT80D607SOFT** | Price | **HT80D807SOFT** | Price | **HT80D1007SOFT** | Price |
| Step Jaws | **HT80AJ40032** | Price | **-** | - | **HT80AJ60032** | Price | **HT80AJ80032** | Price | **-** | - |
| Swivel Base | **HT80D404** | Price | **-** | - | **HT80D604** | Price | **HT80D804** | Price | **-** | - |
| Thrust Collar Bearing | **HT80D4072** | Price | **-** | - | **HT80D6072** | Price | **HT80D8072** | Price | **HT80D10072** | Price |
| Work Stop Assembly | **HT80D3045** | Price | **-** | - | **HT80360PWS** | Price | **HT80D80WS** | Price | **-** | - |

## Sine Keys

- Hardened vise keys are used to align your Kurt vise to your milling machine table
- Standard keys are used when they are the same width

New!



| Description - Inch | | | | | | |
|---|---|---|---|---|---|---|
| **Model No.** | **Size (in./mm)** | **Set Includes** | **For Use With** | **Weight** | **Order No.** | **Price** |
| SKOA89 | 1/2 x 9/16 | 2 Pc. | Kurt DX6 | 1 lb | **HT80SKOA89** | Price |
| SKOA1011 | 5/8 x 11/16 | 2 Pc. | Kurt DX6 | 1 lb | **HT80SKOA1011** | Price |
| SKOA1213 | 3/4 x 13/16 | 2 Pc. | Kurt DX6 | 1 lb | **HT80SKOA1213** | Price |
| SKOA1416 | 7/8 x 1 | 2 Pc. | Kurt DX6 | 1 lb | **HT80SKOA1416** | Price |

| Description - Metric | | | | | | |
|---|---|---|---|---|---|---|
| **Model No.** | **Size (in./ mm)** | **Set Includes** | **For Use With** | **Weight** | **Order No.** | **Price** |
| SKOAM14 | 14mm x 16mm | 2 Pc. | Kurt DX6 | 1 lb | **HT80SKOAM1416** | Price |
| SKOAM1820 | 18mm x 20mm | 2 Pc. | Kurt DX6 | 1 lb | **HT80SKOAM1820** | Price |
| SKOAM2022 | 20mm x 22mm | 2 Pc. | Kurt DX6 | 1 lb | **HT80SKOAM2022** | Price |

## Hardened Step Keys

**(Sold in pairs)**



| For Use With - 4” Vises | | |
|---|---|---|
| **Size (in.)** | **Order No.** | **Price** |
| 1/2 x 5/8 | **HT80D3033A** | Price |

| For Use With - 6” Vises | | |
|---|---|---|
| **Size (in.)** | **Order No.** | **Price** |
| 11/16 x 1/2 | **HT80D5033E** | Price |
| 11/16 x 9/16 | **HT80D5033D** | Price |
| 11/16 x 5/8 | **HT80D5033A** | Price |
| 11/16 x 3/4 | **HT80D5033C** | Price |
| 11/16 x 13/16 | **HT80D5033B** | Price |

| For Use With - 8 & 10” Vises | | |
|---|---|---|
| **Size (in.)** | **Order No.** | **Price** |
| 13/16 x 5/8 | **HT80D8033D** | Price |
| 13/16 x 11/16 | **HT80D8033B** | Price |
| 13/16 x 3/4 | **HT80D8033C** | Price |
| 13/16 x 7/8 | **HT80D8033A** | Price |

## SIDEWINDER™ Vise

MADE IN THE USA

**For 2nd operation workholding, mounts to any Kurt 6” Vise**

- Mounts vertically to back of any Kurt 6” or 8” vise with an integral bracket
- Bracket includes a stabilzation leg
- For 2nd op work holding part vertically rather then horizontally
- SDW25II for 6” vise
- SDW35 for 6 or 8” vise
- Lifetime warranty





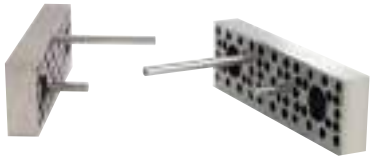
| Jaw Width (in.) | Jaw Height (in.) | Max. Opening (in.) | Max. Clamping Force | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 2.50 | 1.063 | 2.50 | 2450 lbs | 20 lbs | **HT80SDW25II** | Price |
| 3.50 | 1.063 | 3.75 | 4000 lbs | 45 lbs | **HT80SDW35** | Price |

**F.O.B. Warren, MI**

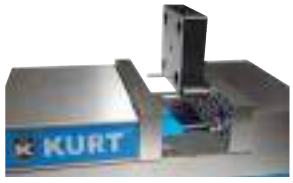
## 3-in-1 System Jaw Plates

MADE IN THE USA

- Ideal for quick setups of common angle cuts
- Preset patterns in jaws provide for these 7 popular angles: 5°, 10°, 15°, 20°, 25°, 30°, 45°
- Tolerance between holes 0.0004” (0.01mm)
- Jaw dimensions: 6” x 1.735” x 0.725” & 8” x 2.20” x 1.075” ±0.000787” (±0.02mm)
- Pins sets included are:
  - 4 ea. 6 x 22mm
  - 3 ea. 6 x 58mm
  - 3 ea. 6 x 40mm
  - 3 ea. 6 x 76mm
- Pins sets dimensional tolerance: ±0.0007” (0.018mm)
- Doubles as a convenient workstop, triples as a parallel
- Does the work of three products











| For Use With | Order No. | Price |
|---|---|---|
| 6" Vises | **HT80KSJ6** | Price |
| 8" Vises | **HT80KSJ8** | Price |

## 6PJS Magnetic Jaw Plate & Parallel Set

**This 11 Pc. Set Includes:**

- 2 Ea. 3/16 x 1 x 6” ground steel parallels
- 2 Ea. 3/16 x 1-1/4 x 6” ground steel parallels
- 2 Ea. 3/16 x 1-3/4 x 6” ground steel parallels
- 1 Ea. D60-7-MAG hardened jaw plate with earth magnet
- 1 Ea. D60-315-MAG hardened Groove Lock jaw plate with earth magnet
- 1 Ea. WSRL46 Kurt® Groove Lock workstop
- 1 Ea. WSRLE46 Kurt® Groove Lock extended workstop
- Plastic storage box

MADE IN THE USA



| Order No. | Price |
|---|---|
| **HT806PJS** | Price |

## 8" Parallel Sets

- 0.25” Thickness
- 0.0002” Parallelism
- Plastic storage box included

MADE IN THE USA



| Pcs. per Set | Set Includes | Weight | Order No. | Price |
|---|---|---|---|---|
| 6 | 1.000, 1.250, 1.500, 1.750, 2.000, 2.125" Heights | 12 lbs | **HT808PS6** | Price |
| 9 | 1.000, 1.250, 1.375, 1.500, 1.625, 1.750, 1.875, 2.000, 2.125" Heights | 17 lbs | **HT808PS9** | Price |

## Sine Parallel

MADE IN THE USA

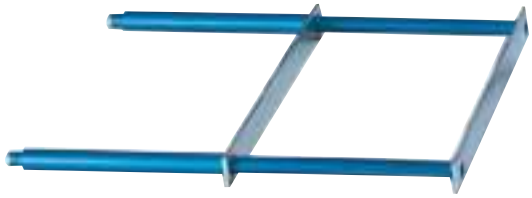
- Squares up parts at 90°
- 30°, 45° and 60° angles built in
- Use as parallels
- Hold round parts (with 2 sets)
- Precision Ground
- Installs quickly and easily
- No need to remove jaw plates to use them



| Order No. | Price |
|---|---|
| **HT80SP63045** | Price |

## Parallel Keepers 6" & 8"

- Place your parallels in the vise against the jaws
- Take the Parallel Keeper, squeeze them together and place them inside the parallels
- Release the Parallel Keeper, they will push against the parallels, holding them against the hard jaws of the vise



| For Use With | Order No. | Price |
|---|---|---|
| All 6" Vises | **HT80KPS6000** | Price |
| All 8" Vises | **HT80KPS8000** | Price |

## 2MWS Magnetic Workstop

- Fast, accurate positioning of parts
- Rare earth magnet attaches anywhere on the workholding setup without the need for connecting bolts or screws
- Removes quickly to clear spindle travel when necessary
- Body is 2-5/8" long with 2" adjustable stop pins on both ends of body
- Ideal for single, multiple station vises and high density workholding setups




| Order No. | Price |
|---|---|
| **HT802MWS** | Price |

## Speed Handles

- Spend less time clamping and get a handle on your next job
- The Kurt® Speed Handle Fits 4" and 6" Kurt® Anglock® vises and opens vises completely in seconds
- The Kurt® Speed Handle gives you rapid part loading and unloading



| For Use With | Order No. | Price |
|---|---|---|
| 6" Anglock Vises | **HT80D60SH** | Price |

## DoveLock Jaw Kits

**Features:**

- Quick change for fast setups in under 1 minute
- DoveLock jaws are changed from the top by loosening 3 quick-clamps
- Jaws can be removed from the front or side
- Workstop for postion repeatability to ±0.001"
- Aluminum jaws are machined not extruded
- Jaws are machinable for part profile or steps
- Jaws can be turned 180° to do 2 different setups
- Machinable jaws sold separately and available in 6, 7, 8 and 10" widths
- Master jaw set and jaw kits machine of 6061 aluminum
- Patent pending design
- Fits all industry standard Kurt 6" vises and towers

**Master Jaw Set Includes:**

- 2 Master jaws
- 4 Cap screws
- T-Handle hex key
- DJ6 inch
- DJ6M metric

**Jaw Kits Includes:**

- 2 Machinable aluminum jaws

Master Jaw Kit





Jaw Kit

| Type - Dovelock Aluminum Jaws | | |
|---|---|---|
| **Size** | **Order No.** | **Price** |
| 4 | **HT80DJ404AL** | Price |
| 6 | **HT80DJ406AL** | Price |
| 8 | **HT80DJ808AL** | Price |
| 10 | **HT80DJ810AL** | Price |

| Type - DoveLock Jaw Kit - Long | | |
|---|---|---|
| **Size** | **Order No.** | **Price** |
| 6 x 1.25 x 1.98 | **HT80DJ606AL** | Price |
| 7 x 1.5 x 1.98 | **HT80DJ607AL** | Price |
| 10 x 1.5 x 1.98 | **HT80DJ610AL** | Price |
| 8 x 1.5 x 1.98 | **HT80DJ608AL** | Price |

| Type - Dovelock Master Jaw Kit | | |
|---|---|---|
| **Size** | **Order No.** | **Price** |
| 4 | **HT80DJ4** | Price |
| 6 | **HT80DJ6S** | Price |
| 8 | **HT80DJ8** | Price |

| Type - DoveLock Master Jaw Kit | | |
|---|---|---|
| **Size** | **Order No.** | **Price** |
| 6 x .775 x 1.725 | **HT80DJ6** | Price |
| 152.4 x 19.685 x 43.815mm | **HT80DJ6M** | Price |

| Type - Dovelock Starter Kit | | |
|---|---|---|
| **Size** | **Order No.** | **Price** |
| 4 | **HT80DJ4SK** | Price |
| 6 | **HT80DJ6SK** | Price |
| 8 | **HT80DJ8SK** | Price |

| Type - Dovelock Steel Jaws | | |
|---|---|---|
| **Size** | **Order No.** | **Price** |
| 6 | **HT80DJ606S** | Price |

## KURT Hydraulic Cluster Towers

- This hydraulically operated eight station tower features all-new design for fast loading of parts
- All internalized hydraulic piston/nut saves valuable space
- Includes all original KURT AngLock precision clamping and iron clad rigid construction for damping vibration

**Features:**

- Hydraulically operated eight station CTHDHLM64 Cluster Tower
- Utilizes an all internal hydraulic piston nut to conserve space
- Pressure is maintained until released by operator or triggering device
- Easy disconnect for pallet shuttle
- Repeatable clamping to 0.0002”
- Each station delivers up to 7,100 lbs. of clam
- Each face is controlled separately for conver removal
- Jaw opening is 4” per station
- Each face has a maximum total stroke of 1/4
- Jaw options available: Hard jaws, machinabl ductile iron
- Base sizes available: 400mm, 500mm, 630n
- Lifetime Iron Clad Warranty



New!

| Jaw Type - Alumimum | | | | | |
|---|---|---|---|---|---|
| Overall Ht. (in.) | Base Size (in.) | Base Thick-ness (in.) | Weight | Order No. | Price |
| 24.61 | 11.811 | 1 | 350 lbs | **HT80CTHDHM64325** | Price |
| 24.61 | 11.811 | 1 | 350 lbs | **HT80CTHDHM643AL** | Price |
| 24.61 | 15.748 | 1.25 | 400 lbs | **HT80CTHDHM64425** | Price |
| 24.61 | 15.748 | 1.25 | 400 lbs | **HT80CTHDHM644AL** | Price |
| 24.61 | 19.685 | 1.25 | 450 lbs | **HT80CTHDHM64525** | Price |
| 24.61 | 19.685 | 1.25 | 450 lbs | **HT80CTHDHM645AL** | Price |
| 24.61 | 24.803 | 1.5 | 600 lbs | **HT80CTHDHM64625** | Price |
| 24.61 | 24.803 | 1.5 | 600 lbs | **HT80CTHDHM646AL** | Price |

| Jaw Type - Cast | | | | | |
|---|---|---|---|---|---|
| Overall Ht. (in.) | Base Size (in.) | Base Thick-ness (in.) | Weight | Order No. | Price |
| 24.61 | 11.811 | 1 | 350 lbs | **HT80CTHDHM643C** | Price |
| 24.61 | 15.748 | 1.25 | 400 lbs | **HT80CTHDHM644C** | Price |

| Jaw Type - Cast | | | | | |
|---|---|---|---|---|---|
| Overall Ht. (in.) | Base Size (in.) | Base Thick-ness (in.) | Weight | Order No. | Price |
| 24.61 | 19.685 | 1.25 | 450 lbs | **HT80CTHDHM645C** | Price |
| 24.61 | 24.803 | 1.5 | 600 lbs | **HT80CTHDHM646C** | Price |

| Jaw Type - Hardened | | | | | |
|---|---|---|---|---|---|
| Overall Ht. (in.) | Base Size (in.) | Base Thick-ness (in.) | Weight | Order No. | Price |
| 24.61 | 11.811 | 1 | 350 lbs | **HT80CTHDHM643** | Price |
| 24.61 | 15.748 | 1.25 | 400 lbs | **HT80CTHDHM644** | Price |
| 24.61 | 19.685 | 1.25 | 450 lbs | **HT80CTHDHM645** | Price |
| 24.61 | 24.803 | 1.5 | 600 lbs | **HT80CTHDHM646** | Price |

## KURT MaxLock™ Vises

- Jaws are reversible for ID and OD clampng without losing any clamp force
- Designed with 2 sets of jaws, Serrated and Dovetail (shipped with serrated jaws)
- Each set of jaws has 3 different clamping areas, at the bed, in the middle of the jaw and at the top of the jaw
- Center line that is easily adjusted to the tables rotation
- Clamping force +/- .0005 repeatability



New!

| Model No. | Jaw Width (in.) | Base Height (in.) | Vise Height (in.) | Vise Length (in.) | Bed Clamping Area (in.) | Top Clamping Area (in.) | Middle Clamping Area (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| HP420 | 4 | 1.672 | 2.922 | 5 | 0.6 - 2.19 | 0.56 - 2.69 | 0.31 - 2.44 | 10 lbs | **HT80HP420** | Price |
| HP440 | 4 | 1.672 | 2.922 | 7 | 2.6 - 4.19 | 4.56 - 6.69 | 2.31 - 4.44 | 12 lbs | **HT80HP440** | Price |
| HP460 | 4 | 1.672 | 2.922 | 9 | 4.6 - 6.19 | 4.56 - 6.69 | 4.31 - 6.44 | 14 lbs | **HT80HP460** | Price |

## KURT MaxLock™ HP Riser Kits

Kit Includes:

- (1) Riser Base
- (2) 1/4-20 x 5/8 SHCS
- (2) 1/2-13 x 2-3/4 SHCS
- (1) 1/2 x 1 Dowel Pin
- (2) HP420-277CP Locator Pincs
- (1) HP420-278-CP Locator Pin

KURT 360° Advantage

MADE IN THE USA

New!



| Model No. | Length (in.) | Width (in.) | Height (in.) | Mtg Hole (in.) | Width Between Mtg. Holes - Vise to Riser (in.) | Width Between Mtg. Holes (in.) | Length Between Mtg. Holes - Vise to Riser (in.) | Length Between Mtg. Holes (in.) | Description | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HP420RK | 5 | 4 | 2-1/2 | 5/8 | 3-1/8 | 2.767 | 4 | 3.549 | For HP420 Vise | 6 lbs | **HT80HP420RK** | Price |
| HP440RK | 7 | 4 | 2-1/2 | 5/8 | 3-1/8 | 2.767 | 4 | 3.549 | For HP440 Vise | 8 lbs | **HT80HP440RK** | Price |
| HP460RK | 9 | 4 | 2-1/2 | 5/8 | 3-1/8 | 2.767 | 4 | 3.549 | For HP460 Vise | 11 lbs | **HT80HP460RK** | Price |

## PALMGREN Dual Force 5 Axis Machine Vises

- Designed especially for multi-face machining of simple to complicated workpieceswith a single clamping operation
- These vises are small but have a large holding capacity making them ideal for 5-sided machining
- Equipped with a variety of jaw options to cover a wide range of workholding applications
- These unique vises deliver unrestricted all around access to the workpiece and are equipped with our Dual Force anti-lift mechanism to counter the lifting effect on the part while being machined
- 80,000 PSI Ductile iron castings for rigidity and dimensional stability
- Simple, robust construction, smooth surfaces, easy cleaning
- All sides are hardened and ground
- Both clamping jaws move simultaneously, self-centering to shorten the clamp and un-clamp times
- From the center of the workpiece to the bed of the vise is perpendicular to 0.0004”
- Lifetime Warranty



New!

| Jaw Opening (in.) | Jaw Width (in.) | Throat Depth (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 1.732 - 3.307 | 4 | 3.543 | 64 lbs | **JB509625940** | Price |
| 4.016 - 9.449 | 4 | 3.543 | 72 lbs | **JB509625941** | Price |

## Stainless Steel .375" Dovetail Fixture



- .375” Dovetail fixture is utilized for milling applications
- Offers superior clamping strength while allowing access to five sides of the workpiece
- Comes with two mounting bolts and two Dowel Pins for location
- Manufactured from 17-4 Stainless Steel Heat Treated to H-1150
- Fixture clamp is made from 17-4 Stainless Steel
- Unique Raptor Dovetail spring-loaded clamps require only 1/8” of material to hold the workpiece

| Model No. | Max. Workpiece Size (in.) | No. of Clamps | Dovetail Ht. (in.) | Dovetail Width (in.) | Fixture Ht. (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| RWP-019SS | 2.5 | 1 | .125 | .375 | 1.25 | 2 lbs | **RW10RWP019SS** | Price |

## Aluminum & Stainless Steel .5" Dovetail Fixtures



- .50” Dovetail fixture used for milling applications
- Manufactured from 17-4 Heat Treated Stainless Steel
- Fixture clamp is made from 17-4 Stainless Steel
- Unique Raptor Dovetail spring-loaded clamps require a small amount of material to hold the workpiece

| Material - Aluminum | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Model No. | Weight | Max. Workpiece Size (in.) | No. of Clamps | Dovetail Height (in.) | Dovetail Width (in.) | Fixture Height (in.) | Order No. | Price |
| RWP-018 | 10 lbs | 4.75 | 2 | .125 | .5 | 3 | **RW10RWP018** | Price |

| Material - Stainless Steel | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Model No. | Weight | Max. Workpiece Size (in.) | No. of Clamps | Dovetail Height (in.) | Dovetail Width (in.) | Fixture Height (in.) | Order No. | Price |
| RWP-018SS | 12 lbs | 5 | 2 | .125 | .5 | 3 | **RW10RWP018SS** | Price |
| RWP-022SS | 6 lbs | 3.25 | 1 | .125 | .5 | 2 | **RW10RWP022SS** | Price |
| RWP-017SS | 6 lbs | 3.25 | 1 | .125 | .5 | 2.125 | **RW10RWP017SS** | Price |

## Stainless Steel .281"W x .0781"H Dovetail Fixtures with .075" Dovetail Bottom



- .281” Dovetail fixture for milling applications
- This is new micro design is similar to the original RWP-010SS, yet this product has a deeper dovetail, .0781”, to provide additional holding strength.
- Designed to connect directly to the following 0.75” dovetail fixtures: RWP-002, RWP-002SS, RWP-015, RWP-023, RWP-024 and RWP-030SS
- Sllows you to quickly machine smaller size parts without taking your primary fixtures off of the machine
- Manufactured from 17-4 Heat Treated Stainless Steel
- Fixture clamp is made from 17-4 Stainless Steel
- Unique Raptor Dovetail spring-loaded clamps require only .077” of material to hold the workpiece

| Model No. | Max. Workpiece Size (in.) | No. of Clamps | Dovetail Height (in.) | Dovetail Width (in.) | Fixture Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| RWP-031SS | 1.25 | 1 | .0781 | .281 | 1.438 | .284 lbs | **RW10RWP031SS** | Price |
| RWP-032SS | 1.25 | 1 | .0781 | .281 | 1.563 | .284 lbs | **RW10RWP032SS** | Price |

## Aluminum & Stainless Steel .75" Dovetail Fixtures with 1.5" Dovetail Bottom



- .75” Wide dovetail fixture for milling applications
- Designed to connect directly to the following 1.5” dovetail fixtures: RWP-001, RWP-001SS, RWP-004, RWP-013, RWP-013SS
- Allows you to quickly machine smaller size parts without taking your primary fixtures off of the machine
- Manufactured from 17-4 Heat Treated Stainless Steel
- Fixture clamp is made from 17-4 Stainless Steel
- Unique Raptor Dovetail spring-loaded clamps require only 1/8” of material to hold the workpiece

| Material - Aluminum | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Model No. | Max. Workpiece Size (in.) | No. of Clamps | Dovetail Height (in.) | Dovetail Width (in.) | Fixture Height (in.) | Weight | Order No. | Price |
| RWP-002 | 5.75 | 2 | .125 | .75 | 3 | 18 lbs | **RW10RWP002** | Price |
| RWP-023 | 5.75 | 2 | .125 | .75 | 3 | 18 lbs | **RW10RWP023** | Price |
| RWP-024 | 4 | 1 | .125 | .75 | 1.5 | 8 lbs | **RW10RWP024** | Price |

| Material - Stainless Steel | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Model No. | Max. Workpiece Size (in.) | No. of Clamps | Dovetail Height (in.) | Dovetail Width (in.) | Fixture Height (in.) | Weight | Order No. | Price |
| RWP-002SS | 6.75 | 2 | .125 | .75 | 3 | 25 lbs | **RW10RWP002SS** | Price |
| RWP-007SS | 3.75 | 1 | .125 | .75 | 2.125 | 7 lbs | **RW10RWP007SS** | Price |
| RWP-011SS | 3.75 | 1 | .125 | .75 | 2.001 | 7 lbs | **RW10RWP011SS** | Price |
| RWP-012SS | 3.75 | 1 | .125 | .75 | 2 | 7 lbs | **RW10RWP012SS** | Price |
| RWP-030SS | 7.5 | 3 | .125 | 75 | 3 | 40 lbs | **RW10RWP030SS** | Price |
| RWP-034SS | 7.5 | 3 | .125 | .75 | 2 | 40 lbs | **RW10RWP034SS** | Price |
| RWP-038SS | 5 | 2 | .125 | .75 | 1.3 | 12 lbs | **RW10RWP038SS** | Price |

## Aluminum & Stainless Steel 1.5" Dovetail Fixtures



- Can also be utilized in other machines when connected with an adapter or riser
- Offers superior clamping strength while allowing access to five sides of the workpiece
- **RWP-013** is manufactured from 7075-T6511 aluminum and anodized: Class 2 Type II
- **RWP-013SS** is manufactured from 17-4 Stainless Steel Heat Treated to H-1150
- **RWP-001** is manufactured from 7075-T6511 aluminum and anodized: Class 2 Type II
- **RWP-001SS** is manufactured from 17-4 Stainless Steel Heat Treated to H-1150
- Fixture clamps are made from 17-4 Stainless Steel
- Unique Raptor Dovetail spring-loaded clamps require only 1/8" of material to hold the workpiece

| Material - Aluminum | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Model No. | Max. Workpiece Size (in.) | No. of Clamps | Dovetail Height (in.) | Dovetail Width (in.) | Fixture Height (in.) | Weight | Order No. | Price |
| RWP-001 | 6.75 | 2 | .125 | 1.5 | 3 | 30 lbs | **RW10RWP001** | Price |
| RWP-004 | 6.75 | 2 | .125 | 1.5 | 2 | 30 lbs | **RW10RWP004** | Price |
| RWP-013 | 6.75 | 2 | .125 | 1.5 | 2 | 30 lbs | **RW10RWP013** | Price |
| RWP-026 | 6.75 | 2 | .125 | 1.5 | 3 | 30 lbs | **RW10RWP026** | Price |
| RWP-027 | 6 | 2 | .125 | 1.5 | 2 | 20 lbs | **RW10RWP027** | Price |
| RWP-015SS | 5.75 | 2 | .125 | .75 | 2 | 18 lbs | **RW10RWP015** | Price |

| Material - Stainless Steel | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Model No. | Max. Workpiece Size (in.) | No. of Clamps | Dovetail Height (in.) | Dovetail Width (in.) | Fixture Height (in.) | Weight | Order No. | Price |
| RWP-001SS | 6.75 | 2 | .125 | 1.5 | 3 | 30 lbs | **RW10RWP001SS** | Price |
| RWP-013SS | 6.75 | 2 | .125 | 1.5 | 2 | 30 lbs | **RW10RWP013SS** | Price |
| RWP-036SS | - | 2 | .125 | 1.5 | 2 | - | **RW10RWP036SS** | Price |

## Aluminum & Stainless Steel 2.25" Dovetail Fixtures



- For milling applications used in four and five axis CNC machining
- Uses two large stainless steel clamps to hold your workpiece
- **RWP006** is manufactured from 7075 Aluminum and anodized: Class 2 Type II
- **RWP006SS** is manufactured from 17-4 heat-treated Stainless Steel
- Fixture clamps are made from 17-4 Stainless Steel
- Unique Raptor Dovetail spring-loaded clamps require only 3/16" of material to hold the workpiece

| Model No. | Max. Workpiece Size (in.) | Material | Weight | Order No. | Price |
|---|---|---|---|---|---|
| RWP-006 | 10" L x 8" W x 10" H | Aluminum | 81 lbs | **RW10RWP006** | Price |
| RWP-006SS | 12" L x 12" W x 12" H | Stainless Steel | 168 lbs | **RW10RWP006SS** | Price |

## Stainless Steel .375" Dovetail Fixture Nest Systems



- Utilizes (1) RWP-215 Body plus (4) RWP-019SS The RWP-019-4X90T is made from a 7075 Aluminum Base an the four RWP-019SS fixtures are made from 17-4 Stainless Steel
- Fixture clamps are made from 17-4 Stainless Steel
- This Raptor Nest tombstone mounts to the top of any of the following 1.5" dovetail fixtures: RWP-001, RWP-001SS, RWP-004, RWP-013, RWP-013SS

| Model No. | Max. Workpiece Size (in.) | No. of Clamps | Dovetail Height (in.) | Dovetail Width (in.) | Fixture Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| RWP-019-4X45T | 2.5 | 4 | .125 | .375 | 1.25 | 2 lbs | **RW10RWP0194X45T** | Price |
| RWP-019-4X90T | 2.5 | 4 | .125 | .375 | 1.25 | 2 lbs | **RW10RWP0194X90T** | Price |

## Aluminum .75" Dovetail Fixture Nest System



- The RWP-003-4X Raptor Nest utilizes four RWP-003 dovetail fixtures
- This fixture is designed specifically for five-axis machining applications and allows you to hold four workpieces at the same time
- Will mount to any of our standard Adapters and Risers
- Fixture is manufactured from 7075-T6511 aluminum
- Fixture clamp is made from 17-4 Stainless Steel

| Model No. | Max. Workpiece Size (in.) | Material | No. of Clamps | Dovetail Height (in.) | Dovetail Width (in.) | Fixture Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| RWP-003-4X | 3 | Aluminum | 4 | .125 | .75 | 1.5 | 3 lbs | **RW10RWP0034X** | Price |

## Replacement Clamp Kits

New!



| Compatibility | Order No. | Price |
|---|---|---|
| RWP,008SS, RWP009SS, RWP010SS | **RW10RWPKIT304SQ** | Price |
| RWP-001(SS), RWP-004, RWP-013(SS), RWP-026, RWP-027, RWP-401-11 | **RW10RWPKIT301SQ** | Price |
| RWP-002(SS), RWP-003, RWP-003-4X, RWP-007SS, RWP-011SS, RWP-012SS, RWP-025, RWP-023, RWP-024, RWP-024-2XR, RWP-024-3XR, RWP-024-4XR, RWP-024-6XC, RWP-025, RWP-030SS, RWP-405 | **RW10RWPKIT302SQ** | Price |
| RWP-006(SS) | **RW10RWPKIT303SQ** | Price |
| RWP-017SS, RWP-018(SS), RWP-022SS | **RW10RWPKIT306SQ** | Price |
| RWP-019SS, RWP-019-4X45T, RWP-019-4X90T | **RW10RWPKIT305SQ** | Price |
| RWP-031SS, RWP-032SS | **RW10RWPKIT307SQ** | Price |

## Aluminum Dovetail Pinch Blocks

- Connects directly to Raptor dovetail fixture
- Designed to offer a quick solution for secondary or final operations
- Convenient size and shape
- Available in three sizes
- RWP-702 & RWP-704 Utilizes a single 3/8-16 Socket Head Cap Screw to actuate it
- RWP-703 Utilizes two 3/8-16 Socket Head Cap Screws to actuate it

New!



| Dovetail Ht. (in.) | Dovetail Width (in.) | Order No. | Price |
|---|---|---|---|
| .125 | .75 | **RW10RWP704** | Price |
| .125 | 1.50 | **RW10RWP702** | Price |
| .125 | 1.50 | **RW10RWP703** | Price |

## 5-Axis Milling Stop

- Locking lever can be positioned at 360°
- 5/8" T-nut
- 1/4" Diameter stop rod
- Aluminum and steel construction



| Model No. | Height Cap. (in.) | Order No. | Price |
|---|---|---|---|
| 80211 | 6 | **JB559680211** | Price |

## Milling Machine Work Stops

### For 1/2 - 1" Thick Jaws

- Adjustable spring loaded work stop clamp
- Fits all milling machine vises with 1/2" - 1" thick jaws



| Item | For Use With | Order No. | Price |
|---|---|---|---|
| MADE IN THE USA | Workstop | **NB80Z9030** | Price |
| WORLD CLASS QUALITY | 1/2-1" Thick Jaws | **HT70VS1** | Price |

## Dovetail Cutters

- Machines the flat on the dovetail edge of your workpiece in one pass
- Prevents a sharp edge on the dovetail from pressing into the corner of the fixture

New!



| Dia. (in.) | Dovetail Ht. (in.) | No. of Flute | Order No. | Price |
|---|---|---|---|---|
| .248 | .0469 | 4 Flute | **RW10RWPDC405C** | Price |
| .248 | .248 | 4 Flute | **RW10RWPDC409C** | Price |
| .350 | .125 | 4 Flute | **RW10RWPDC407C** | Price |
| .450 | .125 | 4 Flute | **RW10RWPDC408C** | Price |
| .750 | .125 | 3 Flute | **RW10RWPDC403U** | Price |
| .750 | .125 | 4 Flute | **RW10RWPDC404C** | Price |

## Locating Pins

- **RWP-832** is for all Raptor Fixtures except the RWP-019SS
- **RWP-832MO** is for the RWP-019SS only
- Made from 18-8 Stainless Steel, head height .085" and full thread
- Five replacement pins per pack

New!



| Model No. | Size (in.) | Order No. | Price |
|---|---|---|---|
| RWP-832 | 8/32 x 1/4 | **RW10RWP832** | Price |
| RWP-832MO | 8/32 x 8/32 x .165 | **RW10RWP832MO** | Price |

## 5-Axis Milling Stop

- 5-Axis adjustment moves the stop to any position
- 1/4" stop rod can be modified, replaced or extended with a longer piece of bar stock
- Locking lever can be positioned at 360° to avoid interference
- T-nut to fit 5/8" table slots



| Order No. | Price |
|---|---|
| **JN6091101** | Price |

## Pivot™ Workstop

- Allows machinists to perform multiple operations or repeat setups easily
- Once the workpiece is positioned, the Pivot's hinged arm can be easily moved away to allow machining of the workpiece



| Description | Order No. | Price |
|---|---|---|
| Standard mount | **HT60PWSTD01** | Price |

## Speed Handle

### For Milling Machine Vises

- Replaces swivel handle in Kurt AngLock, Eron Lock-Tight Vise and other Milling Machine Vises
- Machined aluminum



| Item | For Use With | Order No. | Price |
|---|---|---|---|
| WORLD CLASS QUALITY | 4" Milling Machine Vises | **HT71ESH4** | Price |
| | 5" Milling Machine Vises | **HT71ESH5** | Price |
| | 6" Milling Machine Vises | **HT71ESH6** | Price |
| | 8" Milling Machine Vises | **HT71ESH8** | Price |
| MADE IN THE USA | Speed Handle | **NB80Z9021** | Price |

## TOOLEX Vise Mounting Kit

- The Vise Mounting Kit is designed for 6" vises
- **Kit Contains:**
  (2) 1/2-13 x 3 Studs
  (2) 1/2 x 5/8 T-Nuts
  (2) 1/2-13 Flange Nuts
  (2) 1/2 Flat Washers
  (1) T-Slot Cleaner



| Order No. | Price |
|---|---|
| **SG5090442** | Price |

## WORLD CLASS QUALITY Standard Pole Permanent Round Magnetic Chucks

- Powerful ceramic magnets
- Solid top and bottom plates
- Uniform holding power
- Easy on-off handle



| Size (in.) | Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|
| 5 | 2-7/8 | 19 lbs | **HM45TRMC5** | Price |
| 6 | 2-7/8 | 35 lbs | **HM45TRMC6** | Price |
| 9 | 2-7/8 | 46 lbs | **HM45TRMC9** | Price |
| 12 | 2-7/8 | 68 lbs | **HM45TRMC12** | Price |

## WORLD CLASS QUALITY Standard Pole Permanent Rectangular Magnetic Chucks

- Powerful ceramic magnets
- Solid top and bottom plates
- Uniform holding power
- Easy on-off handle

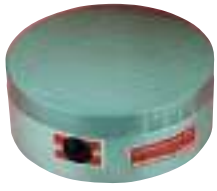


| Dia. (in.) | Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|
| 4 x 7 | 2-7/8 | 19 lbs | **HM45TMC47** | Price |
| 5 x 10 | 2-7/8 | 35 lbs | **HM45TMC510** | Price |
| 6 x 12 | 2-7/8 | 46 lbs | **HM45TMC612** | Price |
| 6 x 18 | 2-7/8 | 68 lbs | **HM45TMC618** | Price |

## Suburban Circular Type Magnetic Chucks

- Ceramic magnets provide three times the holding power of ordinary magnets
- Individually magnetized poles assure uniform pull
- No dead spots
- Full power over entire top surface
- Solid top and bottom plates retain accuracy
- Ideal height for work clearance

MADE IN THE USA



| Pole - Fine | | | | | |
|---|---|---|---|---|---|
| Dia. (in.) | Height (in.) | Pole Spacing | Weight | Order No. | Price |
| 6-1/4 | 3 | 1/8 | 18 lbs | **HM50RMC6FP** | Price |
| 7-3/4 | 3 | 3/16 | 26 lbs | **HM50RMC8FP** | Price |
| 10 | 3 | 3/16 | 43 lbs | **HM50RMC10FP** | Price |
| 12-1/4 | 3 | 3/16 | 62 lbs | **HM50RMC12FP** | Price |

| Pole - Standard | | | | | |
|---|---|---|---|---|---|
| Dia. (in.) | Height (in.) | Pole Spacing | Weight | Order No. | Price |
| 5-1/2 | 3 | 1/8 | 15 lbs | **HM50RMC5** | Price |
| 6-1/4 | 3 | 1/8 | 17 lbs | **HM50RMC6** | Price |
| 9-1/4 | 3 | 3/16 | 36 lbs | **HM50RMC9** | Price |
| 12-1/4 | 3 | 3/16 | 60 lbs | **HM50RMC12** | Price |

## Suburban Magnum-Force™ Permanent Magnetic Chucks

MADE IN THE USA

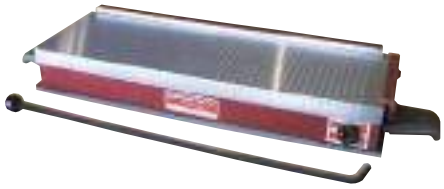
- Dual magnets provide 120% more power
- Submersible for use in EDM and fluids
- Clamps included
- 1/16" Stainless dividers with 1/8" minor pole and 1/4" major pole



| Size (in.) | Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|
| 6 x 12 | 2-1/2 | 44 lbs | **HM50DMB612** | Price |
| 6 x 18 | 2-1/2 | 65 lbs | **HM50DMB618** | Price |
| 8 x 18 | 2-1/2 | 87 lbs | **HM50DMB818** | Price |
| 8 x 24 | 2-1/2 | 116 lbs | **HM50DMB824** | Price |

## Suburban Rectangular Magnetic Chucks

MADE IN THE USA



- Ceramic magnets provide superior holding power that never fades
- Sealed against dirt and liquids, and can also be used in EDM machines
- Front mounted handle is removable to eliminate interference
- Handle, back rail, side rail and two clamps included
- Overall Height: 2-5/8”

| Pole - Fine | | | | |
|---|---|---|---|---|
| Size (in.) | Pole Spacing | Weight | Order No. | Price |
| 4 x 7 | 1/8 | 19 lbs | **HM50MCB47FP** | Price |
| 5 x 10 | 1/8 | 35 lbs | **HM50MCB510FP** | Price |
| 6 x 12 | 1/8 | 47 lbs | **HM50MCB612FP** | Price |
| 6 x 18 | 1/8 | 70 lbs | **HM50MCB618FP** | Price |

| Pole - Standard | | | | |
|---|---|---|---|---|
| Size (in.) | Pole Spacing | Weight | Order No. | Price |
| 4 x 7 | 3/8 | 16 lbs | **HM50MCB47** | Price |
| 5 x 10 | 3/8 | 29 lbs | **HM50MCB510** | Price |
| 6 x 12 | 3/8 | 42 lbs | **HM50MCB612** | Price |
| 6 x 18 | 3/8 | 65 lbs | **HM50MCB618** | Price |
| 8 x 24 | 3/8 | 116 lbs | **HM50MCB824** | Price |

## Suburban Round Rare Earth Magnetics Chucks

MRRE13





MRRE30FP

**Features:**
- Made with neodymium iron boron type rare earth magnets for exceptonal holding power
- 80 N/cm2 (116 psi) nominal holding power

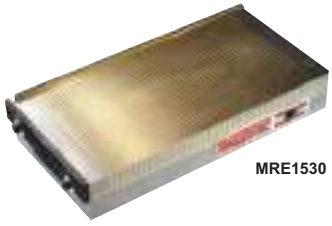
**Standard Pole:**
- Suitable for grinding & light milling
- Works best for holding medium-sized workpieces
- Has 4mm steel poles & 2mm brass spacers

**Fine Pole:**
- Suitable for grinding & EDM
- Works best for holding smaller & thinner workpieces
- Has 1.5mm steel poles & 0.5mm brass spacers

| Pole - Fine | | | | | | |
|---|---|---|---|---|---|---|
| Size (in.) | Height (in.) | Bolt Center Distance (in.) | Bolt Size | Weight | Order No. | Price |
| 4 | 1.69 | 3.35 | (3) M6 | 10 lbs | **HM50MRRE10FP** | Price |
| 5 | 1.69 | 4.53 | (3) M6 | 14 lbs | **HM50MRRE13FP** | Price |
| 6 | 1.69 | 5.51 | (4) M8 | 19 lbs | **HM50MRRE16FP** | Price |
| 12 | 1.77 | 10.24 | (4) M10 | 73 lbs | **HM50MRRE30FP** | Price |

| Pole - Standard | | | | | | |
|---|---|---|---|---|---|---|
| Size (in.) | Height (in.) | Bolt Center Distance (in.) | Bolt Size | Weight | Order No. | Price |
| 4 | 1.93 | 3.35 | (3) M6 | 10 lbs | **HM50MRRE10** | Price |
| 5 | 1.93 | 4.41 | (3) M6 | 14 lbs | **HM50MRRE13** | Price |
| 6 | 1.93 | 5.51 | (4) M6 | 19 lbs | **HM50MRRE16** | Price |
| 8 | 2.01 | 7.09 | (4) M8 | 47 lbs | **HM50MRRE20** | Price |
| 12 | 2.01 | 11.02 | (4) M10 | 73 lbs | **HM50MRRE30** | Price |

## Suburban Rectangular Rare Earth Magnetics Chucks



MRE1530



MRE1325FP

**Features:**
- Made with neodymium iron boron tupe rare earth magnets for exceptional holding power
- Flat, square & parallel within 0.005mm/100mm
- Chucks are lubricated & sealed against dirt & liquids
- 80 N/cm2 (116 psi) nominal holding power
- Includes removeable handle, side and back rails

**Standard Pole:**
- Suitable for grinding & light milling
- Works best for holding larger & thicker workpieces
- Has 4mm steel poles & 2mm brass spacers

**Fine Pole:**
- Suitable for grinding & EDM
- Works best for holding smaller & thinner workpieces
- Has 1.5mm steel poles & 0.5mm brass spacers

| | | | Fine | | Standard | |
|---|---|---|---|---|---|---|
| Size L x W (in.) | Height (in.) | Weight | Order No. | Price | Order No. | Price |
| 4 x 7 | 1.97 | 16 lbs | **HM50MRE1018FP** | Price | **HM50MRE1018** | Price |
| 5 x 10 | 1.97 | 28 lbs | **HM50MRE1325FP** | Price | **HM50MRE1325** | Price |
| 6 x 12 | 1.97 | 37 lbs | **HM50MRE1530FP** | Price | **HM50MRE1530** | Price |
| 6 x 18 | 1.97 | 60 lbs | **HM50MRE1545FP** | Price | **HM50MRE1545** | Price |
| 8 x 18 | 1.97 | 91 lbs | **HM50MRE2045FP** | Price | **HM50MRE2045** | Price |

## O.L. Walker Ceramax Magnetic Chucks

MADE IN THE USA



- Industry standard for permanent magnetic chucks
- Fine pole for maximum strength on small or hardened parts
- Double stacked magnets creating the strongest holding power of any ceramic magnetic chuck
- Silver brazed top plate for maximum holding power
- Watertight for grinders, EDM and milling applications
- Lowest height of any permanent chuck
- Includes backrest, side rails, and two cast clamps

| Size (in.) | Height (in) | Weight | Order No. | Price |
|---|---|---|---|---|
| 5 x 10 | 2-5/8 | 29 lbs | **HM55FP0510** | Price |
| 6 x 12 | 2-3/4 | 45 lbs | **HM55FP0612** | Price |
| 6 x 18 | 2-3/4 | 67 lbs | **HM55FP0618** | Price |
| 8 x 18 | 2-3/4 | 90 lbs | **HM55FP0818** | Price |

| Size (in.) | Height (in) | Weight | Order No. | Price |
|---|---|---|---|---|
| 8 x 24 | 2-3/4 | 120 lbs | **HM55FP0824** | Price |
| 10 x 24 | 3-5/8 | 140 lbs | **HM55FP1024** | Price |
| 12 x 24 | 3-5/8 | 200 lbs | **HM55FP1224** | Price |

**Other sizes available**

## O.S. WALKER NEOMicro² Chucks

### For Precision Grinding & EDM

- Super accurate
- Loaded with Rare Earth Neodymium magnet material
- Micro fine top plate with .02" brass gaps and .05" steel poles
- Maxiumum workholding surface 100% active with no weak areas
- Ideal for very thin and small components
- Low profile
- One back rest and one end stop



| Size (in.) | Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|
| 6 x 12 | 2 | 40 lbs | **HM55NM612** | Price |
| 6 x 18 | 2 | 62 lbs | **HM55NM618** | Price |
| 8 x 18 | 2 | 82 lbs | **HM55NM818** | Price |
| 8 x 24 | 2 | 108 lbs | **HM55NM824** | Price |
| 12 x 24 | 2.2 | 179 lbs | **HM55NM1224** | Price |

## O.S. WALKER Electromagnetic Chuck Controls

### Manual Release Variable Holding



**SCV-1.5 Series Features:**

- Direct current supply
- Variable holding feature
- Manual release
- Input: 115V AC
- Output: 0-110V DC
- Wattage capacity: 150
- Can be used with LBP chucks

MADE IN THE USA

**SMART-B Series Features:**

- Automatic release
- Full, varaible, and residual holding
- Compatible use with chucks from other manufacturers
- Touchpad control for easy selection
- Automatic release cycle assures workpiece is released cleanly without residual magnetism
- Input: 115 VAC Output: 0-110 VDC

| Wattage Capacity | Weight | Order No. | Price |
|---|---|---|---|
| 150 | 8 lbs | **HM55SMMCV15** | Price |
| 150 | 13 lbs | **HM55SMART1B** | Price |
| 300 | 16 lbs | **HM55SMART3B** | Price |
| 500 | 18 lbs | **HM55SMART5B** | Price |

## O.S. WALKER LBP Electro-Magnetic Fine Pole Chucks



- Fine pole longitudinal bar poles with .03" brass gaps and .12" steel poles
- Silver brazed solid top plate
- Watertight for grinders, EDM, and milling applications
- Extremely low profile
- Includes backrest, side rails, and two cast clamps
- Twist lock plug for easy assembly to a Walker Smart B or SCV chuck control
- 115 VDC

| Size (in.) | Height (in.) | Watts | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 6 x 12 | 2-7/8 | 50 | 46 lbs | **HM55EW0612** | Price |
| 6 x 18 | 2-7/8 | 85 | 70 lbs | **HM55EW0618** | Price |
| 8 x 18 | 2-7/8 | 100 | 100 lbs | **HM55EW0818** | Price |

| Size (in.) | Height (in.) | Watts | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 8 x 24 | 2-7/8 | 150 | 130 lbs | **HM55EW0824** | Price |
| 10 x 20 | 2-7/8 | 143 | 170 lbs | **HM55EW1020** | Price |
| 10 x 24 | 2-7/8 | 150 | 215 lbs | **HM55EW1024** | Price |
| 12 x 24 | 3-1/8 | 141 | 185 lbs | **HM55EW1224** | Price |

**Other sizes available**

## Suburban Electromagnetic Chucks

### Transverse Pole Chucks – Poles Run Side To Side
### Longitudinal Pole Chucks – Poles Run End To End

MADE IN THE USA



- Top plate has 1/8" steel poles and 1/16" stainless steel separators
- Chucks are sealed against dirt and liquids
- Longitudinal (lengthwise) or transverse (crosswise) pole models available
- Two clamps, back rail and side rail included
- Chuck controls must be used with all electromagnetic chucks!

| Pole - Longitudinal | | | | | |
|---|---|---|---|---|---|
| Size (in.) | Height (in.) | Watts | Weight | Order No. | Price |
| 6 x 12 | 3-1/4 | 56 | 75 lbs | **NJ50EMCB612L** | Price |
| 6 x 18 | 3-1/4 | 110 | 117 lbs | **NJ50EMCB618L** | Price |
| 8 x 15 | 3-1/4 | 85 | 132 lbs | **NJ50EMCB815L** | Price |
| 8 x 18 | 3-1/4 | 100 | 160 lbs | **NJ50EMCB818L** | Price |
| 8 x 24 | 4 | 150 | 210 lbs | **NJ50EMCB824L** | Price |

| Pole - Transverse | | | | | |
|---|---|---|---|---|---|
| Size (in.) | Height (in.) | Watts | Weight | Order No. | Price |
| 6 x 12 | 3-1/2 | 72 | 75 lbs | **NJ50EMCB612T** | Price |
| 6 x 18 | 3-1/2 | 130 | 117 lbs | **NJ50EMCB618T** | Price |
| 8 x 15 | 3-1/2 | 125 | 132 lbs | **NJ50EMCB815T** | Price |
| 8 x 18 | 3-1/2 | 150 | 160 lbs | **NJ50EMCB818T** | Price |
| 8 x 24 | 4 | 220 | 210 lbs | **NJ50EMCB824T** | Price |

## Suburban Precision Ground Angle Plates

- Solid, one-piece angle plates are made of steel, hardened to Rc 58-60
- SineSet® models bolt directly to SineSet® sine plate or compound sine plate of the same series



| Dim. (in.) | No. of Holes | Tapped Hole Size | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 3 x 3 x 3 x 1 x 1/2 | 24 | 1/4-20 | 5 lbs | **NJ50AP333** | Price |
| 4 x 3 x 3 x 1 | 13 | 1/4-20 | 6 lbs | **NJ50AP334S0** | Price |
| 4 x 4 x 4 x 1-1/4 | 13 | 1/4-20 | 10 lbs | **NJ50AP444S1** | Price |
| 4 x 4 x 4-1/2 x 1 x 3/4 | 25 | 5/16-18 | 9 lbs | **NJ50AP445** | Price |
| 6 x 4 x 4 x 1-1/4 | 14 | 3/8-16 | 13 lbs | **NJ50AP446S2** | Price |
| 6 x 6 x 4 x 1-1/4 | 33 | 1/4-20 | 20 lbs | **NJ50AP664S1** | Price |

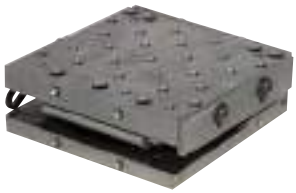
## Suburban Compound Angle Plates

- Solid, single piece hardened (Rc 58-60) steel construction provides stable and reliable positioning for compound use.
- Ground vees for convenient holding of small parts
- Square and parallel within .0002"
- Clamp and screws are included



| Size (in.) | Weight | Tapped Holes | Hole Size | Order No. | Price |
|---|---|---|---|---|---|
| 6 x 4 x 4 x 1 | 11 lbs | 16 | 1/4-20 | **NJ50CAP46** | Price |

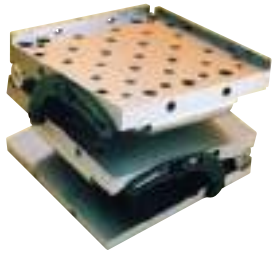
## Suburban Sine Plates



- Made of steel, hardened to Rc 58-60
- Sizes up to 6" x 6" have 1/4-20 tapped holes, larger sizes have 3/8-16 tapped holes. Model NJ50-SP555 has t-slots for 1/4" T-bolts
- Gage block roll has two .200" minute steps for setting small angles with standard gage block sets
- A locking strap that always remains below the top surface and two self-storing, hardened and ground rails are standard
- Angular accuracy guaranteed within 5 seconds of arc up to 15°, within 10 seconds up to 30°, and within 15 seconds up to 45°
- Models with the suffix "S0, S1 or S2" are part of the SineSet® System. Other products with the same part number suffix will bolt directly to these sine plates
- T-Slot top - NJ50SP555

| Dim. (in.) | Square & Parallel | Center Distance of Rolls | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 6 x 3 x 2 | .0002 | 5.000 within .0002 | 9 lbs | **NJ50SP136** | Price |
| 6 x 5 | .0002 | 5.000 within .0002 | 17 lbs | **NJ50SP555** | Price |
| 6 x 6 x 2 | .0002 | 5.000 within .0002 | 18 lbs | **NJ50SP66S1** | Price |
| 6 x 12 x 2-5/8 | .0003 | 5.000 within .0002 | 47 lbs | **NJ50SP612S2** | Price |
| 8 x 12 x 2-5/8 | .0003 | 5.000 within .0002 | 62 lbs | **NJ50SP812S2** | Price |
| 12 x 6 x 2-5/8 | .0003 | 10.000 within .0002 | 45 lbs | **NJ50SP126S2** | Price |

## Suburban Compound Sine Plates



- Made of steel, hardened to Rc 58-60
- Sizes up to 6" x 6" have 1/4-20 tapped holes, larger sizes have 3/8-16 tapped holes.
- Each gage block roll has two 0.200" minute steps for setting small angles with standard gage block sets
- Two locking straps that always remains below the top surface and two self-storing, hardened and ground rails are standard
- Angular accuracy guaranteed within 5 seconds of arc up to 15°, within 10 seconds up to 30°, and within 15 seconds up to 45°
- Models with the suffix "S0, S1 or S2" are part of the SineSet® System. Other products with the same part number suffix will bolt directly to these sine plates

| Dim. (in.) | Square & Parallel | Center Distance of Rolls | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 6 x 6 x 3-1/8 | .0002 | 5.000 within .0002 | 27 lbs | **NJ50SPC66S1** | Price |
| 6 x 12 x 4-3/16 | .0003 | 5.000 within .0002 & 10.000 within .0002 | 71 lbs | **NJ50SPC612S2** | Price |

## Suburban Magnetic Sine Plates

- Ceramic permanent magnetic chucks can't lose their magnetism
- Removable handle for ON/OFF operation, end rail and side rail all included
- Sine plate angles lock rigidly with locking straps
- Squareness, parallelism and roll center distances within .0002" and .0003"
- Unit features .002 minute angle steps
- Chuck not removable - NJ50MSP66FP & NJ50MSP66

| Type - Fine Pole Magnetic Sine Plate | | | | | |
|---|---|---|---|---|---|
| Size (in.) | Square & Parallel | Center Distance of Rolls | Weight | Order No. | Price |
| 6 x 3 x 4-1/4 | .0002 | 5.000 within .0002 | 22 lbs | **NJ50MSP363FP** | Price |
| 6 x 3 x 4-1/4 | .0002 | 5.000 within .0002 | 22 lbs | **NJ50MSP66FP** | Price |
| 6 x 6 x 4-1/4 | .0002 | 5.000 within .0002 | 39 lbs | **NJ50MSP66FPS1** | Price |
| 6 x 12 x 5-1/4 | .0003 | 5.000 within .0002 | 94 lbs | **NJ50MSP612FPS2** | Price |
| 12 x 6 x 5-1/4 | .0003 | 10.000 within .0002 | 92 lbs | **NJ50MSP126FPS2** | Price |



| Type - Standard Pole Magnetic Sine Plate | | | | | |
|---|---|---|---|---|---|
| Size (in.) | Square & Parallel | Center Distance of Rolls | Weight | Order No. | Price |
| 6 x 6 x 4-5/8 | .0002 | 5.000 within .0002 | 39 lbs | **NJ50MSP66** | Price |
| 6 x 6 x 4-5/8 | .0002 | 5.000 within .0002 | 39 lbs | **NJ50MSP66S1** | Price |
| 6 x 12 x 5-1/4 | .0003 | 5.000 within .0002 | 89 lbs | **NJ50MSP612S2** | Price |
| 12 x 6 x 5-1/4 | .0003 | 10.000 within .0002 | 87 lbs | **NJ50MSP126S2** | Price |

**†Chuck not removable. Other sizes available, call for price and availability.**

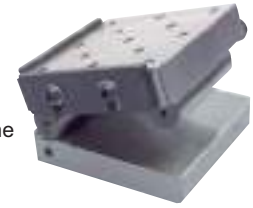
## Suburban Compound Magnetic Sine Plates



- Ceramic permanent magnetic chuck
- Removable handle for ON/OFF control, side rails, end rails all included
- Strap locks sine plate securely.
- .200 minute angle steps with .0002 and .0003 tolerance in squareness, parallelism and roll center distances
- Models with the suffix "S0, S1 or S2" are part of the SineSet® System
- Can be removed, allowing the individual use of both the compound sine plate and magnetic chuck and allowing other products with the same part number suffix to bolt directly to the sine plate
- Chuck not removable - NJ50MSPC66 & NJ50MSPC66FP

| | | | Fine Pole Compound Magnetic Sine Plate | | | Standard Pole Compound Magnetic Sine Plate | | |
|---|---|---|---|---|---|---|---|---|
| Size (in.) | Square & Parallel | Center Distance of Rolls | Weight | Order No. | Price | Weight | Order No. | Price |
| 6 x 6 x 5-3/8 | .0002 | 5.000 within .0002 | 48 lbs | **NJ50MSPC66FP** | Price | 44 lbs | **NJ50MSPC66** | Price |
| 6 x 12 x 6-13/16 | .0003 | 5.000 within .0002 & 10.000 within .0002 | 118 lbs | **NJ50MSPC612FPS2** | Price | 113 lbs | **NJ50MSPC612S2** | Price |

## Accu Sine Plates



- Built to the most exacting specificatiions, these Sine Plates are accurate, stable and sturdy with a .200" minute angle step built into the gage block roll, this eliminates a step in the base plate
- Two hardened and ground side rails and one locking strap are included along with large hinge pins for extra strength

| Size (in.) | Center Distance of Rolls | Order No. | Price |
|---|---|---|---|
| 4 x 4 x 2 | 2-1/4 within .0002 | **NJ55NSP44** | Price |
| 6 x 6 x 2 | 4-1/4 within .0002 | **NJ55NSP66** | Price |

## Accu Magnetic Sine Plates

### Fine Pole

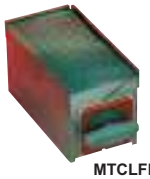


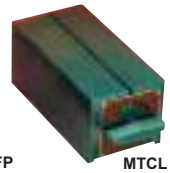
- Using ceramic permanent magnets which cannot be demagnetized, these magnetic Sine Plates are designed for the precise angular positioning and holding of small or odd-shaped workpieces
- Fine pole division permits more uniform magnetic holding
- Sine Plate angles lock rigidly with locking strap
- Removable handle included for on-off

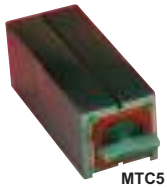
| Size (in.) | Center Distance of Rolls | Order No. | Price |
|---|---|---|---|
| 4 x 4 x 4-5/8 | 2-1/4 within .0002 | **NJ55NMSP44** | Price |
| 6 x 6 x 4-5/8 | 4-1/4 within .0002 | **NJ55NMSP66** | Price |

## Suburban Magnetic Toolmaker's Chucks & Angle Iron

- Top, bottom and end magnetize simultaneously (chucks only)
- All models precision ground flat, square and parallel to an overall accuracy of .0005”
- Model MTC-LFP has 3/16” x 1/16” fine pole construction for holding small or thin parts; and removable side and end rails
- On/Off switch
- Powerful Alnico magnets


MTCLFP


MTCL

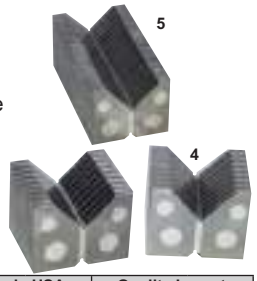

MTC5


MAI644

| Shape | Size (in.) | Height (in.) | Pole | Order No. | Price |
|---|---|---|---|---|---|
| Angle Iron | 4-1/4 x 4-3/4 | 6-1/2 | - | **NJ50MAI644** | Price |
| Chuck | 2 x 5 | 2 | Standard | **NJ50MTCS** | Price |
| Chuck | 2-3/4 x 5-1/2 | 2-1/2 | Fine | **NJ50MTCLFP** | Price |
| Chuck | 2-3/4 x 5-1/2 | 2-1/2 | Standard | **NJ50MTCL** | Price |

## Magnetic Chuck Parallels, Vee Blocks, & Angle Plate

- Precision ground on all surfaces
- Serial numbered in pairs
- Integrally aluminum cast into one solid piece
- Holds in any direction
- Use with magnetic chucks (For best results use with electromagnetic chucks)
- Available with 1/2” and 2” capacity




| | | Generic USA | | Quality Import | |
|---|---|---|---|---|---|
| Description | Size (in.) | Order No. | Price | Order No. | Price |
| Combo Set V-Blocks & Parallels | Parallels: 1 x 2 x 4 V-Blocks: 1-7/8 x 2-5/8 x 2 2 Cap (large Vee ) 1/2 Cap (small Vee) | - | - | **NG5114** | Price |
| Matched Pair Long V-Block | 1-7/8 x 2-3/8 x 4-3/8 2 Cap (large Vee ) 1/2 Cap (small Vee) each block | - | - | **NG515MP** | Price |
| One Long Magnetic Chuck V-Block | 1-7/8 x 2-3/8 x 4-3/8 2 Cap (large Vee ) 1/2 Cap (small Vee) | - | - | **NG515** | Price |
| Pair Magnetic Chuck Parallels | 1 x 2 x 4 | - | - | **NG511** | Price |
| Pair Magnetic Chuck V-Block | 1-7/8 x 2-5/8 x 2 2 Cap (large Vee ) 1/2 Cap (small Vee) | **NG494** | Price | **NG514** | Price |

## MAG-MATE Continuous Duty Demagnetizers

- Surface Type Demagnetizers are designed for stationary or portable use, providing continuous duty operation as work pieces pass over the demagnetizer’s face plate
- The surface type design allows for installation under, over or alongside conveyors for demagnetizing applications
- 6 Foot cord with grounded plug
- Integrated side handles for hand held operation
- AC pilot light and On/Off Switch
- Portable and/or stationary
- Continuous duty
- Durable face plate
- 240V AC available on request



| Width (in.) | Length (in.) | Overall Height (in.) | Amps-120VAC Single Phase | Order No. | Price |
|---|---|---|---|---|---|
| 4-3/4 | 7-1/4 | 3-13/16 | 2.1 | **NE7085** | Price |
| 6-1/4 | 11-1/4 | 4-15/16 | 9 | **NE70115** | Price |

## Suburban Magnetic Vee Blocks

- Top, bottom and end magnetize simultaneously (chucks only)
- All models precision ground flat, square and parallel to an overall accuracy of .0005”
- Model MTC-LFP has 3/16” x 1/16” fine pole construction for holding small or thin parts; and removable side and end rails
- On/Off switch
- Powerful Alnico magnets



| Size (in.) | Order No. | Price |
|---|---|---|
| 2-3/4 x 3-5/8 x 5-1/2 | **NJ50MTCVB** | Price |
| 2-3/4 x 3-5/8 x 5-1/2 | **NJ50MTCVBM** | Price |

## WORLD CLASS QUALITY Demagnetizers

### Top Quality Import

- Demagnetize dies, punches, cutters or any tools that have become magnetized from any source
- Operates on 115V AC with On/Off switch

UMD1



UMD



| Width (in.) | Length (in.) | Height (in.) | Order No. | Price |
|---|---|---|---|---|
| 4 | 6 | 3-1/2 | **HR62UMD1** | Price |
| 5-1/2 | 8-1/2 | 4-7/8 | **HR62UMD** | Price |

## WORLD CLASS QUALITY Demagnetizer/Magnetizer

- Hand held demagnetizer/ magnetizer provides results with push of button
- Round ring opening with handle
- 2.5” Ring opening



| Length (in.) | Height (in.) | Voltage | Order No. | Price |
|---|---|---|---|---|
| 9 | 1 | 110v | **NE70DZ110** | Price |

## Demagnetizer/Magnetizer

- Keep those small screw and nuts in position
- Simply insert a tool into the magnetizer section, pull it out, and it’s magnetized
- To demagnetize, pass the tool through one of the outside channels or the demagnetizer section


MD001


MD221



40010

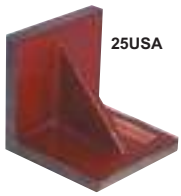
| Item | Size (in.) | Opening | Order No. | Price |
|---|---|---|---|---|
| MAG-MATE | 1-1/8 Cubed | 3/8” diameter max. thru-hole | **NE70MD001** | Price |
| WORLD CLASS QUALITY | 2 x 2 x 1 | Compact Magnetizer/ Demagnetizer for small parts or tools | **NE70MD221** | Price |
| wiha Tools that work for you | 2 x 2 x 1 | Works with items over 1.3” in length and 1/8” or 3mm dia. | **KN5440010** | Price |

## Plain Machined Angle Plates

With ample thickness and ribbed construction, these angle plates offer a versatile means of holding work for layout, machining and inspection and also are widely used as vertical reference. High quality cast iron stress relieved against distortion.

**American Made By Suburban Tool:**
- Machine Finish Flat & Square .002” per 6”
- Precision Ground Flat & Square .0005” per 6”

**Top Quality Import Shop Grade:**
- Machine Finish Flat & Square .004” per 6”
- Precision Ground Flat & Square .001” per 6”







Suburban

WORLD CLASS QUALITY

| Type - Machined Plain Angle Plate | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | Suburban | | Quality Import | |
| Length (in.) | First Angle (in.) | Second Angle (in.) | Approx. Shipping Weight | Order No. | Price | Order No. | Price |
| 2 | 2 | 2 | 2 lbs | **NL4021USA** | Price | **NL5021** | Price |
| 3 | 3 | 3 | 3 lbs | **NL4022USA** | Price | **NL5022** | Price |
| 4 | 4 | 4 | 7 lbs | **NL4023USA** | Price | **NL5023** | Price |
| 5 | 5 | 5 | 11 lbs | **NL4024USA** | Price | **NL5024** | Price |
| 6 | 6 | 6 | 18 lbs | **NL4025USA** | Price | **NL5025** | Price |
| 8 | 8 | 8 | 38 lbs | **NL4026USA** | Price | **NL5026** | Price |
| 10 | 10 | 10 | 64 lbs | **-** | - | **NL5027** | Price |
| 12 | 12 | 12 | 104 lbs | **NL4028USA** | Price | **NL5028** | Price |

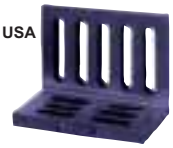
Suburban

WORLD CLASS QUALITY

| Type - Precision Ground Plain Angle Plate | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | Suburban | | Quality Import | |
| Length (in.) | First Angle (in.) | Second Angle (in.) | Approx. Shipping Weight | Order No. | Price | Order No. | Price |
| 2 | 2 | 2 | 2 lbs | **NL4031USA** | Price | **NL5031** | Price |
| 3 | 3 | 3 | 3 lbs | **NL4032USA** | Price | **NL5032** | Price |
| 4 | 4 | 4 | 7 lbs | **NL4033USA** | Price | **NL5033** | Price |
| 5 | 5 | 5 | 11 lbs | **NL4034USA** | Price | **NL5034** | Price |
| 6 | 6 | 6 | 18 lbs | **NL4035USA** | Price | **NL5035** | Price |
| 8 | 8 | 8 | 38 lbs | **NL4036USA** | Price | **NL5036** | Price |
| 10 | 10 | 10 | 64 lbs | **-** | - | **NL5037** | Price |
| 12 | 12 | 12 | 104 lbs | **NL4038USA** | Price | **NL5038** | Price |

## Slotted Angle Plates

These Slotted Angle Plates have convenient clamping slots for mounting and are widely used for machining, layout and inspection.
- Material: High quality close-grained gray iron, stress-relieved against distortion by heat-treatment
- Available in machine finish only
- Available in two qualities: American Made or Top Quality Import
- Webbed end angle plates have side webs and are machined square and parallel on outside faces and ends
- Open End Angle Plates are accurately machined square and parallel on the faces
- Giant Slotted Angle Plates are machined on outside faces







Suburban

WORLD CLASS QUALITY

| Type - Machined Giant Slotted Angle Plate | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | Suburban | | Quality Import | |
| Length-A (in.) | First Angle-B (in.) | Second Angle-C (in.) | Approx Shipping Weight | Order No. | Price | Order No. | Price |
| 16 | 12 | 9 | 72 lbs | **NL40G111USA** | Price | **NL50G111** | Price |
| 20 | 16 | 12 | 145 lbs | **NL40G112USA** | Price | **NL50G112** | Price |
| 24 | 24 | 18 | 355 lbs | **-** | - | **NL50G113** | Price |

Suburban

WORLD CLASS QUALITY

| Type - Machined Open End Slotted Angle Plate | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | Suburban | | Quality Import | |
| Length-A (in.) | First Angle-B (in.) | Second Angle-C (in.) | Approx Shipping Weight | Order No. | Price | Order No. | Price |
| 4-1/2 | 3-1/2 | 3 | 3 lbs | **NL40O11USA** | Price | **NL50O11** | Price |
| 6 | 5 | 4-1/2 | 9 lbs | **NL40O12USA** | Price | **NL50O12** | Price |
| 7 | 5-1/2 | 4-1/2 | 13 lbs | **NL40O13USA** | Price | **NL50O13** | Price |
| 8 | 6 | 5 | 13 lbs | **NL40O14USA** | Price | **NL50O14** | Price |
| 9 | 7 | 6 | 18 lbs | **NL40O15USA** | Price | **NL50O15** | Price |
| 10 | 8 | 6 | 22 lbs | **NL40O16USA** | Price | **NL50O16** | Price |
| 12 | 9 | 8 | 44 lbs | **NL40O17USA** | Price | **NL50O17** | Price |

Suburban

WORLD CLASS QUALITY

| Type - Machined Webbed (Closed) End Slotted Angle Plate | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | Suburban | | Quality Import | |
| Length-A (in.) | First Angle-B (in.) | Second Angle-C (in.) | Approx Shipping Weight | Order No. | Price | Order No. | Price |
| 3 | 2-1/2 | 2 | 2 lbs | **-** | - | **NL50C1** | Price |
| 3-1/2 | 3 | 2-1/2 | 3 lbs | **NL40C2USA** | Price | **NL50C2** | Price |
| 4-1/2 | 3-1/2 | 3 | 4 lbs | **NL40C3USA** | Price | **NL50C3** | Price |
| 6 | 5 | 4-1/2 | 9 lbs | **NL40C4USA** | Price | **NL50C4** | Price |
| 7 | 5-1/2 | 4-1/2 | 11 lbs | **NL40C5USA** | Price | **NL50C5** | Price |
| 8 | 6 | 5 | 14 lbs | **NL40C6USA** | Price | **NL50C6** | Price |
| 9 | 7 | 6 | 18 lbs | **NL40C7USA** | Price | **NL50C7** | Price |
| 10 | 8 | 6 | 25 lbs | **NL40C8USA** | Price | **NL50C8** | Price |
| 12 | 9 | 8 | 44 lbs | **NL40C9USA** | Price | **NL50C9** | Price |

## Universal Right Angle Irons

Right Angle Irons can be used widely for fixture component as well as for checking squareness and parallelism. All faces, ends and edges are finished square and parallel.



**American Made By Suburban Tool:**
- Machine Finish Square & Parallel ±.002” per 6”
- Ground Finish Square within .0005” per 6”
- Parallel Within .00025” per 6”

**Top Quality Import Shop Grade:**
- Machine Finish Square & Parallel .004” per 6”
- Ground Finish Square within .001” per 6”
- Parallel Within .0005” per 6”

Suburban

WORLD CLASS QUALITY

| Type - Machined Universal Right Angle Iron | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | Suburban | | Quality Import | |
| Length-A (in.) | First Angle-B (in.) | Second Angle-C (in.) | Approx Shipping Weight | Order No. | Price | Order No. | Price |
| 3-3/4 | 4 | 5 | 12 lbs | **NL40UR1MUSA** | Price | **NL50UR1M** | Price |
| 4 | 4 | 6 | 15 lbs | **NL40UR2MUSA** | Price | **NL50UR2M** | Price |
| 4 | 5 | 6 | 17 lbs | **NL40UR3MUSA** | Price | **NL50UR3M** | Price |
| 4-1/2 | 5 | 8 | 23 lbs | **NL40UR4MUSA** | Price | **NL50UR4M** | Price |
| 5 | 8 | 12 | 49 lbs | **NL40UR5MUSA** | Price | **NL50UR5M** | Price |
| 5-1/2 | 7 | 10 | 40 lbs | **NL40UR6MUSA** | Price | **NL50UR6M** | Price |
| 5-1/2 | 8 | 10 | 42 lbs | **NL40UR7MUSA** | Price | **NL50UR7M** | Price |
| 6 | 6 | 8 | 37 lbs | **NL40UR8MUSA** | Price | **NL50UR8M** | Price |
| 8 | 10 | 12 | 81 lbs | **NL40UR9MUSA** | Price | **NL50UR9M** | Price |
| 8 | 9 | 16 | 97 lbs | **NL40UR10MUSA** | Price | **NL50UR10M** | Price |
| 10 | 12 | 16 | 139 lbs | **-** | - | **NL50UR11M** | Price |
| 12 | 12 | 24 | 218 lbs | **-** | - | **NL50UR12M** | Price |

Suburban

WORLD CLASS QUALITY

| Type - Precision Ground Universal Right Angle Iron | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | Suburban | | Quality Import | |
| Length-A (in.) | First Angle-B (in.) | Second Angle-C (in.) | Approx Shipping Weight | Order No. | Price | Order No. | Price |
| 3-3/4 | 4 | 5 | 12 lbs | **NL40UR21PUSA** | Price | **NL50UR21P** | Price |
| 4 | 4 | 6 | 15 lbs | **NL40UR22PUSA** | Price | **NL50UR22P** | Price |
| 4 | 5 | 6 | 17 lbs | **NL40UR23PUSA** | Price | **NL50UR23P** | Price |
| 4-1/2 | 5 | 8 | 23 lbs | **NL40UR24PUSA** | Price | **NL50UR24P** | Price |
| 5 | 8 | 12 | 49 lbs | **NL40UR25PUSA** | Price | **NL50UR25P** | Price |
| 5-1/2 | 7 | 10 | 40 lbs | **NL40UR26PUSA** | Price | **NL50UR26P** | Price |
| 5-1/2 | 8 | 10 | 42 lbs | **NL40UR27PUSA** | Price | **NL50UR27P** | Price |
| 6 | 6 | 8 | 37 lbs | **NL40UR28PUSA** | Price | **NL50UR28P** | Price |
| 8 | 10 | 12 | 81 lbs | **NL40UR29PUSA** | Price | **NL50UR29P** | Price |

## Box Parallels

They can also be used in sets for raising work parallel to a work surface because of its dimensional accuracy. All sides and ends finished parallel, flat and square.



BP11M



BP16M

**American Made By Suburban Tool:**
- Size Held Within ±.002”
- Machine Finish Square & Parallel .002” per 6”
- Ground Finish Square & Parallel Within .0005” per 6”

**Top Quality Import Shop Grade:**
- Machine Finish Square & Parallel .004” per 6”
- Ground Finish Square & Parallel Within .001” per 6”

Suburban

WORLD CLASS QUALITY

| Type - Machined Box Parallel | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | Suburban | | Quality Import | |
| Length-A (in.) | First Angle-B (in.) | Second Angle-C (in.) | Approx Shipping Weight | Order No. | Price | Order No. | Price |
| 4 | 4 | 4 | 13 lbs | **NL40BP11MUSA** | Price | **NL50BP11M** | Price |
| 4 | 4 | 6 | 16 lbs | **NL40BP12MUSA** | Price | **NL50BP12M** | Price |
| 4 | 6 | 6 | 20 lbs | **NL40BP14MUSA** | Price | **NL50BP14M** | Price |
| 5 | 10 | 10 | 75 lbs | **NL40BP17MUSA** | Price | **NL50BP17M** | Price |
| 5 | 5 | 5 | 18 lbs | **NL40BP13MUSA** | Price | **NL50BP13M** | Price |
| 6 | 12 | 12 | 119 lbs | **NL40BP18MUSA** | Price | **NL50BP18M** | Price |
| 6 | 6 | 6 | 25 lbs | **NL40BP15MUSA** | Price | **NL50BP15M** | Price |
| 6 | 6 | 8 | 40 lbs | **NL40BP16MUSA** | Price | **NL50BP16M** | Price |
| 8 | 8 | 8 | 75 lbs | **NL40BP19MUSA** | Price | **NL50BP19M** | Price |
| 10 | 10 | 10 | 123 lbs | **-** | - | **NL50BP20M** | Price |

Suburban

WORLD CLASS QUALITY

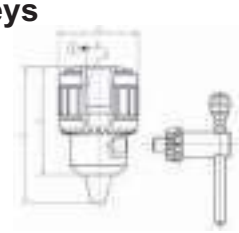
| Type - Precision Ground Box Parallel | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | Suburban | | Quality Import | |
| Length-A (in.) | First Angle-B (in.) | Second Angle-C (in.) | Approx Shipping Weight | Order No. | Price | Order No. | Price |
| 4 | 4 | 4 | 13 lbs | **NL40BP21PUSA** | Price | **NL50BP21P** | Price |
| 4 | 4 | 6 | 16 lbs | **NL40BP22PUSA** | Price | **NL50BP22P** | Price |
| 4 | 6 | 6 | 20 lbs | **NL40BP24PUSA** | Price | **NL50BP24P** | Price |
| 5 | 10 | 10 | 75 lbs | **NL40BP27PUSA** | Price | **NL50BP27P** | Price |
| 5 | 5 | 5 | 18 lbs | **NL40BP23PUSA** | Price | **NL50BP23P** | Price |
| 6 | 12 | 12 | 119 lbs | **NL40BP28PUSA** | Price | **NL50BP28P** | Price |
| 6 | 6 | 6 | 25 lbs | **NL40BP25PUSA** | Price | **NL50BP25P** | Price |
| 6 | 6 | 8 | 40 lbs | **NL40BP26PUSA** | Price | **NL50BP26P** | Price |
| 8 | 8 | 8 | 75 lbs | **NL40BP29PUSA** | Price | **NL50BP29P** | Price |
| 10 | 10 | 10 | 123 lbs | **-** | - | **NL50BP30P** | Price |

## Self Ejecting Safety Drill Chuck Keys



| For Use With | Order No. | Price |
|---|---|---|
| 0 Series | **HK41SK0** | Price |
| 1 Series | **HK41SK1** | Price |
| 2 Series | **HK41SK2** | Price |
| 20N | **HK41SK5** | Price |
| 3, 6 Series & 14N | **HK41SK3** | Price |
| 30, 31 Series 8-1/2N | **HK41SK30** | Price |
| 32, 33 Series & 11N | **HK41SK32** | Price |
| 3333C | **HK41SK32C** | Price |
| 36, 37 Series & 16, 18N | **HK41SK4** | Price |
| 633C, 633D | **HK41SK3C** | Price |
| 7 Series | **HK41SK7** | Price |
| DC8, SM8, 74K, 22BA, 23BA, 24BA, 26BA, 29A | **HK41SKK** | Price |

## RAPIDHOLD Chuck Keys



| For Use With | Order No. | Price |
|---|---|---|
| Model No. 71000 | **HL30DKP06T** | Price |
| Model No. 71001, 71051, 71052 | **HL30DKP10T** | Price |
| Model No. 71002, 71003, 71004, 71053, 71054, 71055 | **HL30DKP13T** | Price |
| Model No. 71005, 71006, 71056 | **HL30DKP16T** | Price |
| Model No. 71007, 71008, 71057, 71058 | **HL30DKP20T** | Price |
| Model No. 71009 | **HL30DKP25T** | Price |
| Model No. 71302, 71303, 71304, 71305 | **HL30DKS10S** | Price |
| Model No. 71306, 71307, 71308, 71309, 71310 | **HL30DKS13S** | Price |

## Drill Chuck Keys for Plain & Ball Bearing Chucks

- These keys meet UL-987-4231 approval standards
- Keys are heat-treated & also plated







| Handle - T-Handle | | |
|---|---|---|
| **For Use With** | **Order No.** | **Price** |
| 36 Series & 16, 18N | **HK503655** | Price |
| 0 Series | **HK53K0** | Price |
| 1 Series | **HK53K1** | Price |
| 1/4 & 3/8 Multi-Craft | **HK53KG1** | Price |
| 20N | **HK53K5** | Price |

| Handle - Thumb Handle | | |
|---|---|---|
| **For Use With** | **Order No.** | **Price** |
| 14N | **HK503651D** | Price |
| 2 Series | **HK53K2** | Price |
| 3, 6 Series & 14N | **HK53K3** | Price |
| 30, 31 Series & 8-1/2N | **HK53K30** | Price |
| 32, 33 Series & 11N | **HK53K32** | Price |
| 36, 37 Series & 16, 18N | **HK53K4** | Price |
| 7 Series | **HK53K7** | Price |
| DC8, SM8, 74K, 22BA, 23BA, 24BA, 26BA, 29A | **HK53KK** | Price |

## Master Chuck Keys

MADE IN THE USA

- Each master key as 4 sizes
- Strong neodymium magnets for attachment close to the worksite or toolbox
- Cast from alloy steel for strength
- Available in small or large chuck key
- The eight key sizes should cover most chucks that are available



| Size | Order No. | Price |
|---|---|---|
| 4 Sizes for Most Med/Large Chucks | **KN6512060** | Price |
| 4 Sizes For Most Small Chucks | **KN6512050** | Price |

## STONE TOOLS Master Chuck Keys

**Features:**

MADE IN THE USA

- Carbon or Stainless Steel Models
- Two sizes open 1/4 to 3/4”
- Open over 200 different chucks
- Master Chuck I - large key fits heavy duty 3/8 to 3/4” chucks (ST12/12A)
- Master Chuck II - smaller key fits 1/4 to light duty 1/2” chucks (ST13/13A)
- Stainless steel models offer extra wear resistants - does not rust







| For Use With | Order No. | Price |
|---|---|---|
| 1/4 to 1/2" Chucks | **ST21ST13** | Price |
| 1/4 to 1/2" Chucks - Stainless Steel | **ST21ST13A** | Price |
| 3/8 to 3/4" Chucks | **ST21ST12** | Price |
| 3/8 to 3/4" Chucks - Stainless Steel | **ST21ST12A** | Price |

## Key Cad-De with Replaceable Pinions



| For Use With | Order No. | Price |
|---|---|---|
| #1/K1, TB1/KG1, T4/K7, TB13/KK; Hardware & Industrial Chucks | **HK53CD2** | Price |
| T6/K3, T5/K32, #2/K32, #13/K30, Industrial Chucks | **HK53CD1** | Price |

## Key Cad-De Replacment Parts

| Description | Order No. | Price |
|---|---|---|
| 3/16 Screws | **HK531032S** | Price |

## Super Ball Bearing Heavy Duty Drill Chucks

- Hardened and ground for accuracy



| Model No. | Capacity (in.) | Capacity (mm) | Mount | Key Used | Order No. | Price |
|---|---|---|---|---|---|---|
| 0710 | .040 - 3/8 | 1-10 | 2JT | K30 | **HK550710** | Price |
| 0715 | .040 - 1/2 | 1-13 | 3JT | K3 | **HK550715** | Price |
| 0720 | 1/8 - 5/8 | 3-16 | 3JT | K3 | **HK550720** | Price |
| 0725 | 1/8 - 3/4 | 3-19 | 4JT | DC34KEY | **HK550725** | Price |
| 0730 | .200 - 1 | .5-25 | 5JT | K5 | **HK550730** | Price |

## ROHM Ball Bearing Industrial Chucks

- Bodies and jaws hardened and ground
- One piece gear/scroll ring eliminates loss of clamping torque
- Dependable and accurate performance
- Extended life



| Model No. | Capacity (in.) | Mount | Key Used | Order No. | Price |
|---|---|---|---|---|---|
| BB13-3 | 1/32 - 1/2 | 3JT | K3 | **HK60215000** | Price |
| BB16-3 | 1/32 - 5/8 | 3JT | K3 | **HK60215001** | Price |
| BB20-4 | 3/16 - 3/4 | 4JT | K4 | **HK60215002** | Price |
| BB26-5 | 3/16 - 1-1/32 | 5JT | K4 | **HK60215003** | Price |

## Jacobs Super Chuck® Ball Bearing Chucks

### Designed for close tolerance production drilling on precision equipment

- Specifically engineered for heavy-duty, close tolerance production drilling
- Adaptable to a wide range of production drilling equipment, jig borers, milling machines, lathes and radials
- Utilizing a ball thrust bearing to reduce friction in the chuck closing mechanism, it permits the application of more gripping force on drill shanks to maximize drilling torque
- Ball bearing construction maximizes gripping force and drilling accuracy
- Jaws center-ground for absolute straightness and alignment
- Through–hardened sleeve teeth plus hardened nose and keyholes provide outstanding wear resistance
- T.I.R. .003” Maximum at half capacity



| Model No. | Capacity (in.) | Capacity (mm) | Mount | Key Used | Order No. | Price |
|---|---|---|---|---|---|---|
| 8-1/2N | .040 - 1/4 | 0-6.4 | 2JT | K30 | **HK5030209** | Price |
| 11N | .040 - 3/8 | 0-10 | 2JT | K32 | **HK5030215** | Price |
| 14N | .040 - 1/2 | 0-13 | 3JT | K3 | **HK5030221** | Price |
| 16N | 1/8 - 5/8 | 3-16 | 3JT | K4 | **HK5030227** | Price |
| 18N | 1/8 - 3/4 | 3-20 | 4JT | K4 | **HK5030233** | Price |
| 20N | 3/8 - 1 | 10-24 | 5JT | K5 | **HK5030239** | Price |

## LFA Heavy Duty Super Ball Bearing Chucks

- All parts hardened and ground for accuracy
- Heavy duty holding
- New sliding ring provides friction free movement
- Made in France



| Model No. | Capacity (in.) | Mount | Key Used | Order No. | Price |
|---|---|---|---|---|---|
| 81BS-13A-J2 | 0 - 5/16 | 2JT | K30 | **HK75881181BF** | Price |
| 82BS-5A-J2 | 0 - 3/8 | 2JT | K32 | **HK75881082BF** | Price |
| 83S-6A-J3 | 0 - 1/2 | 3JT | K3 | **HK75881183F** | Price |
| 84S-6A-J3 | 0 - 5/8 | 3JT | K3 | **HK75881184F** | Price |
| 85BS-9A-J4 | 3/16 - 1-1/32 | 4JT | K4 | **HK75881085BF** | Price |
| 85S-9A-J4 | 1/16 - 3/4 | 4JT | K4 | **HK75881085F** | Price |

## RAPIDHOLD Ball Bearing HD Industrial Drill Chucks

- Heavy duty ball bearing industrial design
- All parts are heat treated and ground within very tight limits
- High accuracy
- Super Ball bearing chucks are widely used on milling machines, lathes, jig bores and radial drilling machines
- Comes with a chuck key
- T.I.R. 0.003”



| Model No. | Capacity English | Capacity Metric | Mount | Key Used | Order No. | Price |
|---|---|---|---|---|---|---|
| 71000 | 1/32 - 3/8 | 1-10mm | 2JT | DKP-10T | **HL3071000** | Price |
| 71001 | 1/32 - 1/2 | 1-13mm | 6JT | DKP-13T | **HL3071001** | Price |
| 71002 | 1/32 - 1/2 | 1-13mm | 33JT | DKP-13T | **HL3071002** | Price |
| 71003 | 1/32 - 1/2 | 1-13mm | 3JT | DKP-13T | **HL3071003** | Price |
| 71004 | 1/8 - 5/8 | 3-16mm | 3JT | DKP-16T | **HL3071004** | Price |
| 71006 | 1/8 - 3/4 | 3-20mm | 4JT | DKP-20T | **HL3071006** | Price |
| 71005 | 1/32 - 5/8 | 1-16mm | 3JT | DKP-16T | **HL3071005** | Price |
| 71008 | 25/64 - 1 | 10-25mm | 5JT | DKP-25T | **HL3071008** | Price |
| 71007 | 3/16 - 3/4 | 5-20mm | 3JT | DKP-20T | **HL3071007** | Price |
| 71009 | 0 - 1/4 | 0.6-6.35mm | 2JT | DKP-06T | **HL3071009** | Price |

## LFA Plain Bearing Heavy Duty Drill Chucks

- All parts hardened and precision crafted
- Plain bearing keyed type
- All models drilled for retaining screws



| Model No. | Jacobs Equiv. | Capacity (in.) | Capacity (mm) | Tapered Mount | Key Used | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 80-0A | 0A | 0 - 5/32 | 0.3-4.0 | 0JT | K0 | **HK75601080** | Price |
| 81-1A | 1A | 0 - 1/4 | 0.3-6.5 | 1JT | K1 | **HK75601081F** | Price |
| 82-2A | 2A | 0 - 3/8 | 0.5-10.0 | 2JT | K7 | **HK75601082F** | Price |
| 43-6A | 34-02 | 0 - 1/2 | 0.5-13.0 | 2JT | K2 | **HK75601043F** | Price |
| 43-6A | 34-06 | 0 - 1/2 | 0.5-13.0 | 6JT | K3 | **HK75601243F** | Price |
| 43-6A | 34-33 | 0 - 1/2 | 0.5-13.0 | 33JT | K32 | **HK75601143F** | Price |
| 43b-5A | 33 | 1/16 - 1/2 | 1.5-13 | 33JT | K32 | **HK75601143BF** | Price |
| 84-6A | 3A | 1/32 - 5/8 | 0.5-16.0 | 3JT | K3 | **HK75601184F** | Price |
| 45-6A | 36 | 3/16 - 3/4 | 5-20 | 3JT | K3 | **HK75601145F** | Price |

## Geared Drill Chucks with Key

- 1/32 - 1/2” Capacity
- 3/16 - 3/4” Capacity Best Buy



| Model No. | Capacity (in.) | Mount | Order No. | Price |
|---|---|---|---|---|
| DC12 | 1/32 - 1/2 | 6JT | **HK55DC12** | Price |
| DC12A | 1/32 - 1/2 | 33JT | **HK55DC12A** | Price |
| DC34 | 3/16 - 3/4 | 3JT | **HK55DC34** | Price |

## RAPIDHOLD Plain Bearing Heavy Duty Industrial Drill Chucks

- Heavy duty ball bearing industrial design
- All parts are heat treated and ground within very tight limits
- High accuracy
- Chucks are widely used on drilling equipment like milling machines, lathes, jig boreres, radial drilling machines and woodworking machines
- Chuck Key Included
- T.I.R. 0.003”



| Model No. | Capacity (in.) | Capacity (mm) | Mount | Key Used | Order No. | Price |
|---|---|---|---|---|---|---|
| 71051 | 0 - 1/4 | 0.6-6.35mm | 2JT | DKP-06T | **HL3071051** | Price |
| 71052 | 1/32 - 3/8 | 1-10mm | 3/8-24 | DKP-10T | **HL3071052** | Price |
| 71053 | 1/32 - 1/2 | 1-13mm | 2JT | DKP-13T | **HL3071053** | Price |
| 71054 | 1/32 - 1/2 | 1-13mm | 6JT | DKP-13T | **HL3071054** | Price |
| 71055 | 1/32 - 1/2 | 1-13mm | 33JT | DKP-13T | **HL3071055** | Price |
| 71056 | 1/32 - 5/8 | 1-16mm | 3JT | DKP-16T | **HL3071056** | Price |
| 71057 | 3/16 - 3/4 | 5-20mm | 4JT | DKP-20T | **HL3071057** | Price |
| 71058 | 3/16 - 3/4 | 5-20mm | 3JT | DKP-20T | **HL3071058** | Price |

## Jacobs CHUCK Heavy Duty Plain Bearing Chuck

### Taper Mounted

- Jaws center ground for absolute straightness and alignment
- One piece sleeve eliminates crack between driving teeth, often found in other designs
- Through hardened sleeve teeth, plus hardened nose and keyholes provide outstanding wear resistance
- Each chuck 100% inspected for performance and precision
- T.I.R .004” maximum at half capacity
- Fluted sleeve standard except Model 34-33C, which is smooth and ground
- (2) Equipped with positive drive slot
- (3) Equipped with pin type positive drive
- (4) Equipped with locking collar - 1-1/16-20 thread, smooth sleeve



| Model No. | Capacity (in.) | Mount | Key Used | Order No. | Price |
|---|---|---|---|---|---|
| 0 | .135 - 5/32 | 0JT | K0 | **HK506200** | Price |
| 1A | .040 - 1/4 | 1JT | K1 | **HK506206** | Price |
| 2A | .040 - 3/8 | 2JT | K2 | **HK506214** | Price |
| 34-02 | .040 - 1/2 | 2JT | K3 | **HK5014442** | Price |
| 34-06 | .040 - 1/2 | 6JT | K3 | **HK506295** | Price |
| 34-33 | .040 - 1/2 | 33JT | K3 | **HK5014445** | Price |
| 3326A | .080 - 1/2 | 5/8 Straight | K32 | **HK506291** | Price |
| 34-33C(4) | .040 - 1/2 | 33JT | K3C | **HK5014451** | Price |
| 33 | .080 - 1/2 | 33JT | K32 | **HK506279** | Price |
| 3A | 1/8 - 5/8 | 3JT | K3 | **HK506223** | Price |
| 33KD(3) | .080 - 1/2 | 33JT | K32 | **HK506281** | Price |
| 3KD(2) | 1/8 - 5/8 | 3JT | K3 | **HK506228** | Price |
| 3PD(3) | 1/8 - 5/8 | 3JT | K3 | **HK506230** | Price |
| 36 | .180 - .800 | 3JT | K4 | **HK506309** | Price |
| 36KD(2) | .180 - .800 | 3JT | K4 | **HK5014865** | Price |

## ROHM Key Type Drill Chucks

- Bodies and jaws hardened and precision ground
- One piece gear/scroll ring eliminates loss of clamping torque
- Extended life
- Fluted sleeve



| Model No. | Capacity (in.) | Mount | Key | Order No. | Price |
|---|---|---|---|---|---|
| R1-1 | 1/64 - 1/4 | 1JT | K30 | **HK60666537** | Price |
| R2-2 | 1/32 - 3/8 | 2JT | K30 | **HK60666567** | Price |
| R3-12TH | 1/16 - 1/2 | 1/2-20 | K30 | **HK60666575** | Price |
| R3-2 | 1/16 - 1/2 | 2JT | K30 | **HK60666571** | Price |
| R3-33 | 1/16 - 1/2 | 33JT | K32 | **HK60666572** | Price |
| R3-38TH | 1/16 - 1/2 | 3/8-24 | K30 | **HK60666574** | Price |
| R3-6 | 1/16 - 1/2 | 6JT | K30 | **HK60666573** | Price |
| R4-3 | 1/32 - 5/8 | 3JT | K3 | **HK60666579** | Price |
| R8-38TH | 1/32 - 3/8 | 3/8-24 | K30 | **HK60666565** | Price |

## LLAMBRICH USA Plain Bearing Drill Chucks with Key

- The one-piece gear ring and sleeve eliminates the possibility of the teeth breaking
- The jaws, gear ring and body are totally hardened to avoid wear and lengthen the life of the drill chuck
- Fits tools up to 19mm in diameter (3/4”)
- Machine fitting via JACOBS tapers and threaded mounts



| Style - Heavy Duty Jacobs Taper | | | | | | |
|---|---|---|---|---|---|---|
| Model No. | Capacity (in.) | Capacity (mm) | Mount | Key | Order No. | Price |
| L40131B | .031 - .394 | 0.8-10.0 | 2JT | K34 | **HK85L40131B** | Price |
| L40116B | .059 - .512 | 1.5-13.0 | 2JT | K3 | **HK85L40116B** | Price |
| L40117B | .059 - .512 | 1.5-13.0 | 6JT | K3 | **HK85L40117B** | Price |
| L40118B | .059 - .512 | 1.5-13.0 | 33JT | K3 | **HK85L40118B** | Price |

| Style - Medium Duty Jacobs Taper | | | | | | |
|---|---|---|---|---|---|---|
| Model No. | Capacity (in.) | Capacity (mm) | Mount | Key | Order No. | Price |
| L40129B | .020 - .157 | 0.5-4.0 | 0JT | K0 | **HK85L40129B** | Price |
| L40130B | .031 - .236 | 0.8-6.5 | 1JT | CK4 | **HK85L40130B** | Price |
| L40132B | .031 - .394 | 0.8-10.0 | 1JT | K34 | **HK85L40132B** | Price |
| L40133B | .031 - .394 | 0.8-10.0 | 2JT | K34 | **HK85L40133B** | Price |
| L40134B | .059 - .512 | 1.5-13.0 | 33JT | K2 | **HK85L40134B** | Price |
| L40113B | .059 - .630 | 1.5-16.0 | 3JT | K3 | **HK85L40113B** | Price |
| L40120B | .125 - .75 | 3.0-20.0 | 3JT | K4 | **HK85L40120B** | Price |

| Style - Heavy Duty Threaded Mount | | | | | | |
|---|---|---|---|---|---|---|
| Model No. | Capacity (in.) | Capacity (mm) | Mount | Key | Order No. | Price |
| L40124B | .031 - .236 | 0.8-6.0 | 3/8-24 | CK4 | **HK85L40124B** | Price |
| L40139B | .031 - .394 | 0.8-10.0 | 3/8-24 | K34 | **HK85L40139B** | Price |
| L40125B | .031 - .394 | 0.8-10.0 | 1/2-20 | K34 | **HK85L40125B** | Price |

| Style - Medium Duty Threaded Mount | | | | | | |
|---|---|---|---|---|---|---|
| Model No. | Capacity (in.) | Capacity (mm) | Mount | Key | Order No. | Price |
| L40137B | .020 - .157 | 0.5-4.0 | 5/16-24 | K0 | **HK85L40137B** | Price |
| L40138B | .031 - .236 | 0.8-6.5 | 3/8-24 | CK4 | **HK85L40138B** | Price |
| L40140B | .031 - .394 | 0.8-10.0 | 3/8-24 | K34 | **HK85L40140B** | Price |
| L40142B | .031 - .394 | 0.8-10.0 | 1/2-20 | K34 | **HK85L40142B** | Price |
| L40143B | .059 - .512 | 1.5-13.0 | 1/2-20 | K2 | **HK85L40143B** | Price |
| L40144B | .059 - .512 | 1.5-13.0 | 3/8-24 | K2 | **HK85L40144B** | Price |
| L40145B | .059 - .512 | 1.5-13.0 | 5/8-16 | K2 | **HK85L40145B** | Price |
| L40126B | .059 - .630 | 1.5-16.0 | 1/2-20 | K3 | **HK85L40126B** | Price |
| L40123B | .059 - .630 | 1.5-16.0 | 5/8-16 | K3 | **HK85L40123B** | Price |
| L40128B | .118 - .787 | 3.0-20.0 | 5/8-16 | K4 | **HK85L40128B** | Price |
| L40127B | .118 - .787 | 3.0-20.0 | 3/4-16 | K4 | **HK85L40127B** | Price |

## Drill Chucks with Shank & Key



| Model No. | Capacity (in.) | Shank | Order No. | Price |
|---|---|---|---|---|
| DC1234 | 1/32 - 1/2 | 3/4 SS | **HK55DC1234** | Price |
| DC12R8 | 1/32 - 1/2 | R8 | **HK55DC12R8** | Price |
| DC3434A | 3/16 - 3/4 | 3/4 SS | **HK55DC3434A** | Price |
| DC343A | 3/16 - 3/4 | 3MT | **HK55DC343A** | Price |
| DC34R8A | 3/16 - 3/4 | R8 | **HK55DC34R8A** | Price |

## Micro Drill Adapters with Drill Chuck

- Complete unit available with either a Albrecht Keyless Chuck (2) or Jacobs Bearing Geared Key Chuck (3)



| Chuck No. | Capacity (in.) | Brand Name | Order No. | Price |
|---|---|---|---|---|
| 0 w/Adapter | 0 - 5/32 | Jacobs | **HK50MDA0(3)** | Price |
| 15J0 w/Adapter | 0 - 1/16 | Albrecht | **HK50MDA15J0(2)** | Price |
| 30J0 w/Adapter | 0 - 1/8 | Albrecht | **HK50MDA30J0(2)** | Price |
| SU40 w/Adapter | 0 - 5/32 | Rohm | **HK50MDASU40(2)** | Price |

## Micro Drill Adapter Precision Drill Fixture

- Finger sensitive control
- Reduced drill breakage
- Easier small hole drilling using large high speed machinery
- 1/2" Straight shank
- 3/4" Travel
- Easy operation
- Grasp free turning ring, feed with gentle finger pressure, auto return upon release
- Has 0JT Male taper



| Order No. | Price |
|---|---|
| **HK50MDA** | Price |

## Jacobs Multi-Craft Medium Duty Chucks

- (1) Minimum capacities — Models JKP and JKT



| Model No. | Capacity (in.) | Capacity (mm) | Mount | Key Used | Order No. | Price |
|---|---|---|---|---|---|---|
| 30243 | 0 - 1/4 | 0-6.5 | 3/8-24 | KG1 | **HK5030243** | Price |
| 30247 | 1/16 - 3/8 | 2-10 | 3/8-24 | KG1 | **HK5030247** | Price |
| 30598 | 5/64 - 1/2 | 2-13 | 3/8-24 | KK | **HK5030598** | Price |
| 30602 | 5/64 - 1/2 | 2-13 | 1/2-20 | KK | **HK5030602** | Price |

## Jacobs Heavy Duty Plain Bearing Chucks

### Thread Mounted



- Fluted sleeve standard on all models
- Center-ground jaws provide absolute straightness and alignment
- One piece sleeve designe elimiantes cracks between driving teeth
- Sleeve teech, nose piece and keyholes are through-hardened, providing outstanding wear resistance

| Type - Heavy Duty Plain Bearing Drill Chuck | | | | | |
|---|---|---|---|---|---|
| Model No. | Capacity (in.) | Mount | Key Used | Order No. | Price |
| 7BA 3/8 | .040 - 1/4 | 3/8-24 | K7 | **HK506255** | Price |
| 32BA 1/2 | .040 - 3/8 | 1/2-20 | K32 | **HK508859** | Price |
| 3B | 1/8 - 5/8 | 1/2-20 | K3 | **HK5033351** | Price |
| 3B 5/8 | 1/8 - 5/8 | 5/8-16 | K3 | **HK506232** | Price |
| 36B 5/8 | .180 - .800 | 5/8-16 | K4 | **HK506314** | Price |
| 36B 3/4 | .180 - .800 | 3/4-16 | K4 | **HK506316** | Price |

| Type - Medium Duty Plain Bearing Drill Chuck | | | | | |
|---|---|---|---|---|---|
| Model No. | Capacity (in.) | Mount | Key Used | Order No. | Price |
| OB 5/16 | .135 - 5/32 | 5/16-24 | K0 | **HK506204** | Price |
| 1B 3/8 | .040 - 1/4 | 3/8-24 | K1 | **HK506208** | Price |
| 2BA 3/8 | .040 - 3/8 | 3/8-24 | K2 | **HK506219** | Price |
| 41BA 1/2 | .040 - 3/8 | 1/2-20 | K30 | **HK5031090** | Price |
| 33BA 3/8 | .080 - 1/2 | 3/8-24 | K32 | **HK506283** | Price |
| 33BA 1/2 | .080 - 1/2 | 1/2-20 | K32 | **HK50JCM6287** | Price |
| 33BA 5/8 | .080 - 1/2 | 5/8-16 | K32 | **HK506289** | Price |

## LFA Thread Mounted Chucks



- All parts hardened and precision crafted
- Plain bearing keyed type
- All models drilled for retaining screws

| Model No. | Jacobs Equiv. | Capacity (in.) | Capacity (mm) | Threaded Mount | Key Used | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 81-1B | 1B-3B8 | 0 - 1/4 | 0.3-6.5 | 3/8-24 | K1 | **HK75602081A** | Price |
| 82-2B | 2BA-3/8 | 0 - 3/8 | 0.5-10.0 | 3/8-24 | K2 | **HK75602082A** | Price |
| 42-13B | 31BA-3/8 | 0 - 3/8 | 0.5-10.0 | 3/8-24 | K30 | **HK75602042A** | Price |
| 42-13B | 31BA-1/2 | 0 - 3/8 | 0.5-10.0 | 1/2-20 | K30 | **HK75602142A** | Price |
| 82b-5B | 32BA-1/2 | 0 - 3/8 | 0.5-10.0 | 1/2-20 | K32 | **HK75602182BA** | Price |
| 43b-5B | 33BA-3/8 | 1/16 - 1/2 | 1.5-13 | 3/8-24 | K32 | **HK75602043BA** | Price |
| 43b-5B | 33BA-1/2 | 1/16 - 1/2 | 1.5-13 | 1/2-20 | K32 | **HK75602143BA** | Price |
| 43b-5B | 33BA-5/8 | 1/16 - 1/2 | 1.5-13 | 5/8-16 | K32 | **HK75602443BA** | Price |

## ROHM Key Type Drill Chucks



- Percussion drilling
- Drilling in steel and wood
- Screwing
- With through-hole for clockwise and anti-clockwise rotation
- Toothing according to DIN 6349

| Size | Mount | Capacity Metric | Capacity Inch | Outside Dia. | OAL | Key used | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 10mm | 1/2 - 20 | 1-10 | .039-.393 | 1.32" / 33.5mm | 2.42" / 61.5mm | S2A | .5130 lbs | **HK601261225** | Price |
| 10mm | 3/8 - 24 | 1-10 | .039-.393 | 1.32" / 33.5mm | 2.42" / 61.5mm | S2A | .5299 lbs | **HK601261226** | Price |
| 13mm | 1/2 - 20 | 1.5-13 | .059-.511 | 1.32" / 33.5mm | 2.93" / 74.5mm | S2A | .8332 lbs | **HK601261227** | Price |
| 13mm | 3/8 - 24 | 1.5-13 | .059-.511 | 1.32" / 33.5mm | 2.93" / 74.5mm | S2A | .8565 lbs | **HK601261228** | Price |

## Keyless Drill Chucks

- Accurately made hardened and ground
- For production line and toolroom usage
- Gripping force increases as load does, will not slip



| Model No. | Capacity English | Mount | Order No. | Price |
|---|---|---|---|---|
| TDC-K8H1 | 0 - 5/16 | 1JT | **HK55K81** | Price |
| TDC-K10H2 | 0 - 3/8 | 2JT | **HK55K102** | Price |
| TDC-K10H33 | 0 - 3/8 | 33JT | **HK55K1033** | Price |
| TDC-K13H6 | 0 - 1/2 | 6JT | **HK55K136** | Price |
| TDC-K13H33 | 0 - 1/2 | 33JT | **HK55K1333** | Price |
| TDC-K16H6 | 0 - 5/8 | 6JT | **HK55K166** | Price |

## Industrial Keyless Drill Chucks

- Drill chucks for medium duty industrial use, available with threaded mounts for professional hand held drilling machines and with tapered mounts for stationary drilling machines
- Automatic fittings for efficient quick change of tools
- Self-tightening mechanism automatically increases the grip in proportion to the increase in torque during the drilling and avoids the tool from slipping in clockwise rotation rotation
- Fits tools of up to 3/4" in diameter drill shank



| Model No. | Capacity (in.) | Mount | Dia. (in.) | Length Open (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| L40158B | 0 - 5/32 | 1JT | 1.0200 | 2.17 | **HK85L40158B** | Price |
| L40159B | 0 - 1/4 | 1JT | 1.3000 | 2.76 | **HK85L40159B** | Price |
| L40163B | 0 - 5/16 | 1JT | 1.3400 | 2.76 | **HK85L40163B** | Price |
| L40164B | 0 - 5/16 | 2JT | 1.3500 | 2.76 | **HK85L40164B** | Price |
| L40221B | 0 - 3/8 | 33JT | 1.5400 | 3.15 | **HK85L40221B** | Price |
| L40167B | 0 - 3/8 | 2JT | 1.6100 | 3.36 | **HK85L40167B** | Price |
| L40168B | 1/32 - 1/2 | 2JT | 1.8500 | 4.03 | **HK85L40168B** | Price |
| L40169B | 1/32 - 1/2 | 33JT | 1.8500 | 4.03 | **HK85L40169B** | Price |
| L40170B | 1/32 - 1/2 | 6JT | 1.8500 | 4.03 | **HK85L40170B** | Price |
| L40173B | 1/8 - 5/8 | 33JT | 2.0200 | 4.14 | **HK85L40173B** | Price |
| L40174B | 1/8 - 5/8 | 6JT | 2.0200 | 4.14 | **HK85L40174B** | Price |
| L40177B | 3/16 - 3/4 | 3JT | 2.5100 | 5.03 | **HK85L40177B** | Price |

## Precision Heavy Duty Industrial Keyless Drill Chucks

- Self tightening
- Extremely high accuracy
- All parts are heat treated and ground within very tight limits
- Chucks are widely used on a drilling equipment like milling machines, lathes, jig borers, radial drilling machines
- T.I.R. 0.002"



| Model No. | Capacity (in.) | Capacity (mm) | Mount | Order No. | Price |
|---|---|---|---|---|---|
| 71200 | 1/64 - 1/4 | .2-6mm | 1JT | **HL3071200** | Price |
| 71203 | 1/64 - 3/8 | .2-10mm | 2JT | **HL3071203** | Price |
| 71202 | 1/64 - 3/8 | .2-10mm | 33JT | **HL3071202** | Price |
| 71204 | 1/64 - 1/2 | .2-13mm | 2JT | **HL3071204** | Price |
| 71206 | 1/64 - 1/2 | .2-13mm | 6JT | **HL3071206** | Price |
| 71205 | 1/64 - 1/2 | .2-13mm | 33JT | **HL3071205** | Price |
| 71207 | 1/64 - 5/8 | .2-16mm | 6JT | **HL3071207** | Price |
| 71208 | 1/64 - 3/4 | .2-20mm | 3JT | **HL3071208** | Price |

## Standard Accuracy Heavy Duty Industrial Keyless Drill Chucks

- Self tightening
- Standard accuracy
- All parts are heat treated and ground within very tight limits
- Chucks are widely used on a drilling equipment like milling machines, lathes, jig borers, radial drilling machines
- T.I.R. 0.004"



| Model No. | Capacity (mm) | Mount | Order No. | Price |
|---|---|---|---|---|
| 71150 | .2-6mm | 1JT | **HL3071150** | Price |
| 71152 | .2-10mm | 2JT | **HL3071152** | Price |
| 71153 | .2-13mm | 2JT | **HL3071153** | Price |
| 71157 | .2-20mm | 6JT | **HL3071157** | Price |
| 71154 | .2-13mm | 33JT | **HL3071154** | Price |
| 71155 | .2-13mm | 6JT | **HL3071155** | Price |
| 71156 | .2-16mm | 3JT | **HL3071156** | Price |

## Precision Industrial Keyless Chucks

- **Applications:** Through its permanent and automatic retightening, this proven design is ideal for high drill speeds and precision work with drills, boring mills and special drilling machines.
- Self tightening, no key required
- Due to tapered sleeve, tool and workpiece can be observed clearly
- Automatic retightening
- Only suitable for right-hand rotation
- Manufactured in Europe



| Model No. | Capacity (in.) | Mount | Order No. | Price |
|---|---|---|---|---|
| P32J1 | 0 - 1/4 | 1JT | **HK70P32J1** | Price |
| P36J2 | 0 - 3/8 | 2JT | **HK70P36J2** | Price |
| P36J33 | 0 - 3/8 | 33JT | **HK70P36J33** | Price |
| P37J2 | 1/32 - 1/2 | 2JT | **HK70P37J2** | Price |
| P37J33 | 1/32 - 1/2 | 33JT | **HK70P37J33** | Price |
| P37J6 | 1/32 - 1/2 | 6JT | **HK70P37J6** | Price |
| P40J6 | 1/8 - 5/8 | 6JT | **HK70P40J6** | Price |

## High Precision HD Nickel Plated Industrial Keyless Drill Chucks

- Self tightening
- Extremely high accuracy with high RPM
- Rigid & heavy-duty design
- Wide gripping capacity
- For use with all CNC machines
- T.I.R. 0.002"



| Model No. | Capacity English | Mount | Capacity Metric | Order No. | Price |
|---|---|---|---|---|---|
| 71300 | 1/64 - 1/8 | 0JT | .2-3mm | **HL3071300** | Price |
| 71301 | 1/64 - 5/32 | 1JT | .2-4mm | **HL3071301** | Price |
| 71302 | 1/64 - 1/4 | 1JT | .2-6mm | **HL3071302** | Price |
| 71303 | 1/64 - 5/16 | 2JT | .2-8mm | **HL3071303** | Price |
| 71304 | 1/64 - 3/8 | 2JT | .2-10mm | **HL3071304** | Price |
| 71305 | 1/64 - 3/8 | 33JT | .2-10mm | **HL3071305** | Price |
| 71306 | 1/64 - 1/2 | 2JT | .2-13mm | **HL3071306** | Price |
| 71307 | 1/64 - 1/2 | 33JT | .2-13mm | **HL3071307** | Price |
| 71308 | 1/64 - 1/2 | 6JT | .2-13mm | **HL3071308** | Price |
| 71309 | 1/64 - 5/8 | 6JT | .2-16mm | **HL3071309** | Price |
| 71310 | 1/64 - 3/4 | 3JT | .2-20mm | **HL3071310** | Price |

## ROHM EXTRA-RV 40 - Orange Line



- For corded and cordless drills with and without spindle stop
- Impact-resistant quick-action drill chuck
- With through-hole for clockwise and counterclockwise rotation
- Easy clamping and locking
- Radial locking device
- Impact-resistant
- Plastic design with radial locking
- Keyless clamping by turning the sleeve

| Size | Mount | Capacity (mm) | Capacity Inch | | | | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 10mm | 1/2 - 20 | 1-10 | .039-.393 | 1.68" / 42.7mm | 2.36" / 60mm | .3571 lbs | **HK601261215** | Price |
| 10mm | 1/2 - 20 | 1-10 | .039-.393 | 1.68" / 42.7mm | 2.36" / 60mm | .3670 lbs | **HK601261216** | Price |
| 10mm | 3/8 - 24 | 1-10 | .039-.393 | 1.68" / 42.7mm | 2.36" / 60mm | .3809 lbs | **HK601261217** | Price |
| 13mm | 1/2 - 20 | 1.5-13 | .059-.511 | 1.68" / 42.7mm | 2.66" / 67.5mm | .4551 lbs | **HK601261213** | Price |
| 13mm | 1/2 - 20 | 1.5-13 | .059-.511 | 1.68" / 42.7mm | 2.66" / 67.5mm | .4576 lbs | **HK601261214** | Price |
| 13mm | 1/2 - 20 | 1.5-13 | .059-.511 | 1.68" / 42.7mm | 2.66" / 67.5mm | .5236 lbs | **HK601261211** | Price |
| 13mm | 1/2 - 20 | 1.5-13 | .059-.511 | 1.68" / 42.7mm | 2.66" / 67.5mm | .5364 lbs | **HK601261212** | Price |

## ROHM Keyless Chucks

### Quick-Action Drill Chucks with Ball Bearing Self-Tightening High Precision Design



- Ideal for high drill speeds and precision work with drills, boring mills and special drilling machines
- Sharply tapered sleeve
- High Concentricity
- High clamping power — easy release
- Keyless; Long, service life; All hardened; Parts interchangeabl.
- Accuracy plus economy
- Made In Germany

| Model No. | Capacity (in.) | Mount | Order No. | Price |
|---|---|---|---|---|
| SU40 | 0 - 5/32 | 0JT | **HK60SU40** | Price |
| SU61 | 0 - 1/4 | 1JT | **HK60SU61** | Price |
| SU102 | 0 - 3/8 | 2JT | **HK60SU102** | Price |
| SU103 | 0 - 3/8 | 33JT | **HK60SU103** | Price |
| SU132 | 1/32 - 1/2 | 2JT | **HK60SU132** | Price |
| SU136 | 1/32 - 1/2 | 6JT | **HK60SU136** | Price |
| SU166 | 1/8 - 5/8 | 6JT | **HK60SU166** | Price |

## ROHM Spiro Quick-Action Drill Chucks



- With Ball Bearing
- Self Tightening
- High Precision Design

| Model No. | Capacity (in.) | Mount | Outside Dia. | Length Open | Order No. | Price |
|---|---|---|---|---|---|---|
| S6J1 | 0 - 1/4 | 1JT | 28mm | 62.5mm | **HK60S6J1** | Price |

## ALBRECHT Keyless Chucks



- Used on the finest precision drilling machinery where close tolerance drilling is essential
- All working parts are of alloy steel and expertly hardened making the Albrecht an ideal chuck for heavy duty drilling
- Designed for both toolroom and production machinery where accuracy, gripping power and the keyless features are desired
- Used today on high accuracy drill presses, jig borers, milling machines and production drilling equipment
- Model 15-J0 keyless drill chuck is especially designed for holding small diameter twist drills and has a micrometer graduation on its sleeve to facilitate the changing of the smallest drills
- Model 15-J0 has a maximum capacity of 1/16" and a minimum capacity of .008



| Model No. | Capacity (in.) | Mount | Dia. (in.) | Length Open (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 15J0 | 0 to 1/16 | 0JT | 3/4 | 1-15/32 | **HK6515J0** | Price |
| 30J0 | 0 to 1/8 | 0JT | 15/16 | 1-47/64 | **HK6530J0** | Price |
| 30J1 | 0 to 1/8 | 1JT | 15/16 | 1-47/64 | **HK6530J1** | Price |
| 65J1 | 0 to 1/4 | 1JT | 1-11/32 | 2-7/16 | **HK6565J1** | Price |
| 100J2 | 0 to 3/8 | 2JT | 1-11/16 | 3-5/32 | **HK65100J2** | Price |
| 100J33 | 0 to 3/8 | 33JT | 1-11/16 | 3-5/32 | **HK65100J33** | Price |
| 130J2 | 1/32 to 1/2 | 2JT | 1-31/32 | 3-9/16 | **HK65130J2** | Price |
| 130J33 | 1/32 to 1/2 | 33JT | 1-31/32 | 3-9/16 | **HK65130J33** | Price |
| 130J6 | 1/32 to 1/2 | 6JT | 1-31/32 | 3-9/16 | **HK65130J6** | Price |
| 160J6 | 1/8 to 5/8 | 6JT | 2-7/32 | 3-3/4 | **HK65160J6** | Price |
| 1603416 | 1/8 to 5/8 | 3/4-16 | 2-7/32 | 3-3/4 | **HK651603416** | Price |

## Classic Plus Keyless Drill Chucks with Integral Shank



- Integral shank design is more compact than a combined drill chuck and arbor
- Maximum RPM: 7,000

| | | | | | Rapidkut | | Albrecht | | Llambrich USA | |
|---|---|---|---|---|---|---|---|---|---|---|
| Shank | Model No. | Capacity (in.) | Weight (lbs.) | Capacity (mm) | Order No. | Price | Order No. | Price | Order No. | Price |
| 5/8 SS | CP130-5/8 | 1/32 - 1/2 | 2.2 | 1-13 | - | - | **HK6573050** | Price | **HK85L31412B** | Price |
| 2MT | CP130-2MT | 1/32 - 1/2 | 2.3 | 1-13 | - | - | **HK6573010** | Price | **HK85L31408B** | Price |
| 3MT | CP130-3MT | 1/32 - 1/2 | 2.6 | 1-13 | - | - | **HK6573020** | Price | **HK85L31409B** | Price |
| 4MT | CP130-4MT | 1/32 - 1/2 | 3.3 | 1-13 | - | - | **HK6573030** | Price | **HK85L31410B** | Price |
| R8 | CP130-R8 | 1/32 - 1/2 | 2.6 | 1-13 | - | - | **HK6573040** | Price | **HK85L31411B** | Price |
| BT40 | BT40DC13096M | 1/32 - 1/2 | 3.9 | 1-13 | **TS1124601** | Price | - | - | - | - |
| BT50 | BT50DC13110M | 1/32 - 1/2 | 9.7 | 1-13 | **TS1125601** | Price | - | - | - | - |
| CAT40 | CV40DC13M421 | 1/32 - 1/2 | 3.84 | 1-13 | **TS1121603** | Price | - | - | - | - |
| CAT50 | CV50DC13M421 | 1/32 - 1/2 | 7.85 | 1-13 | **TS1122604** | Price | - | - | - | - |

## Taper Shank Arbors



RAPIDHOLD Jacobs CHUCK WORLD CLASS QUALITY

| | | Rapidhold | | Jacobs | | Quality Import | |
|---|---|---|---|---|---|---|---|
| Shank | Jacobs Taper | Order No. | Price | Order No. | Price | Order No. | Price |
| 1MT | 0JT | HL3175001 | Price | HK5004805 | Price | - | - |
| 1MT | 1JT | HL3175002 | Price | - | - | GN5311 | Price |
| 1MT | 2JT | HL3175003 | Price | HK507300 | Price | GN5312 | Price |
| 1MT | 33JT | HL3175004 | Price | - | - | GN53133 | Price |
| 1MT | 6JT | HL3175005 | Price | HK507303 | Price | GN5316 | Price |
| 2MT | 0JT | HL3175006 | Price | HK5004815 | Price | - | - |
| 2MT | 1JT | HL3175007 | Price | HK507306 | Price | GN5321 | Price |
| 2MT | 2JT | HL3175008 | Price | HK507307 | Price | GN5322 | Price |
| 2MT | 33JT | HL3175009 | Price | HK507312 | Price | GN53233 | Price |
| 2MT | 3JT | HL3175010 | Price | HK507308 | Price | GN5323 | Price |
| 2MT | 4JT | HL3175011 | Price | HK507309 | Price | - | - |
| 2MT | 6JT | HL3175012 | Price | HK507311 | Price | GN5326 | Price |
| 3MT | 1JT | HL3175013 | Price | HK507313 | Price | - | - |
| 3MT | 2JT | HL3175014 | Price | HK507314 | Price | GN5332 | Price |
| 3MT | 33JT | HL3175015 | Price | HK507319 | Price | GN53333 | Price |
| 3MT | 3JT | HL3175016 | Price | HK507315 | Price | GN5333 | Price |
| 3MT | 4JT | HL3175017 | Price | HK507316 | Price | GN5334 | Price |
| 3MT | 5JT | HL3175018 | Price | HK507317 | Price | - | - |
| 3MT | 6JT | HL3175019 | Price | HK507318 | Price | GN5336 | Price |
| 4MT | 2JT | HL3175020 | Price | HK507320 | Price | - | - |
| 4MT | 33JT | HL3175021 | Price | HK507325 | Price | GN53433 | Price |
| 4MT | 3JT | HL3175022 | Price | HK507321 | Price | GN5343 | Price |
| 4MT | 4JT | HL3175023 | Price | HK507322 | Price | GN5344 | Price |
| 4MT | 5JT | HL3175024 | Price | HK507323 | Price | - | - |
| 4MT | 6JT | HL3175025 | Price | HK507324 | Price | GN5346 | Price |
| 5MT | 3JT | HL3175026 | Price | HK507327 | Price | - | - |
| 5MT | 4JT | HL3175027 | Price | HK507328 | Price | GN5354 | Price |

## Threaded Taper Shank Arbors



RAPIDHOLD Jacobs CHUCK

| | | Rapidhold | | Jacobs | |
|---|---|---|---|---|---|
| Shank | Thread Size | Order No. | Price | Order No. | Price |
| 2MT | 1/2-20 | HL3175082 | Price | HK507346 | Price |
| 2MT | 3/8-24 | HL3175081 | Price | HK507345 | Price |
| 2MT | 5/8-16 | HL3175083 | Price | HK507347 | Price |

## Jacobs CHUCK Chuck Removal Wedges

- For removal of chuck with tapered spindles

| For Use With | Order No. | Price |
|---|---|---|
| All Jacobs Chucks with 1JT | HK5013266 | Price |
| All Jacobs Chucks with 2JT | HK5013267 | Price |
| All Jacobs Chucks with 3JT | HK5013268 | Price |
| All Jacobs Chucks with 6JT | HK5013269 | Price |



**Note: Removal of 4JT and 5JT requires stacking of No. 3 and No. 6 Wedge sets**

## Jacobs CHUCK Jaw & Nut Repair Units

- For plain bearing key type chucks



| For Chuck Model | Order No. | Price |
|---|---|---|
| 33, 33BA, 3326A, 33KD, 33F, 33BA | HK507423 | Price |
| 34-02, 34-06, 34-33, 34-33C | HK507424 | Price |
| 36, 36B, 36KD, 36PD | HK507425 | Price |
| 3A, 3B, 3KD, 3PD | HK507417 | Price |

## Jacobs CHUCK Sleeves

- For plain bearing key type chucks



| For Chuck Model | Order No. | Price |
|---|---|---|
| 33, 33BA, 3326A, 33KD, 33BA | HK505016 | Price |
| 34-02, 34-06, 34-33, 34-33C | HK505046 | Price |
| 36, 36B, 36KD, 36PD | HK505066 | Price |
| 3A, 3B, 3KD, 3PD | HK504944 | Price |

## Straight Shank Arbors



RAPIDHOLD Jacobs CHUCK WORLD CLASS QUALITY

| | | Rapidhold | | Jacobs | | Quality Import | |
|---|---|---|---|---|---|---|---|
| Shank Dia. (in) | Jacobs Taper | Order No. | Price | Order No. | Price | Order No. | Price |
| 1/2 | 0JT | HL3175041 | Price | HK507348 | Price | - | - |
| 1/2 | 1JT | HL3175042 | Price | HK507349 | Price | GN53121 | Price |
| 1/2 | 2JT | HL3175043 | Price | HK507350 | Price | GN53122 | Price |
| 1/2 | 33JT | HL3175044 | Price | HK507354 | Price | GN531233 | Price |
| 1/2 | 3JT | HL3175045 | Price | HK507351 | Price | GN53123 | Price |
| 1/2 | 4JT | HL3175046 | Price | - | - | GN53124 | Price |
| 1/2 | 6JT | HL3175047 | Price | HK507353 | Price | GN53126 | Price |
| 5/8 | 1JT | HL3175048 | Price | - | - | GN53581 | Price |
| 5/8 | 2JT | HL3175049 | Price | HK507356 | Price | GN53582 | Price |
| 5/8 | 33JT | HL3175050 | Price | HK507360 | Price | GN535833 | Price |
| 5/8 | 3JT | HL3175051 | Price | HK507357 | Price | GN53583 | Price |
| 5/8 | 6JT | HL3175052 | Price | HK507359 | Price | GN53586 | Price |
| 3/4 | 2JT | HL3175053 | Price | HK507361 | Price | GN53342 | Price |
| 3/4 | 33JT | HL3175054 | Price | HK507365 | Price | GN533433 | Price |
| 3/4 | 3JT | HL3175055 | Price | HK507362 | Price | GN53343 | Price |
| 3/4 | 4JT | HL3175056 | Price | - | - | GN53344 | Price |
| 3/4 | 6JT | HL3175057 | Price | HK507364 | Price | GN53346 | Price |
| 1 | 33JT | HL3175058 | Price | - | - | GN531033 | Price |
| 1 | 3JT | HL3175059 | Price | HK507367 | Price | GN53103 | Price |
| 1 | 4JT | HL3175060 | Price | - | - | GN53104 | Price |
| 1 | 6JT | HL3175061 | Price | HK507368 | Price | GN53106 | Price |

## R-8 Shanks



RAPIDHOLD Jacobs CHUCK WORLD CLASS QUALITY

| | Rapidhold | | Jacobs | | Quality Import | |
|---|---|---|---|---|---|---|
| Chuck Taper | Order No. | Price | Order No. | Price | Order No. | Price |
| 3JT | HL3175074 | Price | HK507340 | Price | GN53R8G3 | Price |
| 1JT | HL3175071 | Price | - | - | GN53R8G1 | Price |
| 2JT | HL3175072 | Price | HK507339 | Price | GN53R8G2 | Price |
| 4JT | HL3175075 | Price | HK507341 | Price | - | - |
| 6JT | HL3175076 | Price | HK507342 | Price | GN53R8G6 | Price |
| 33JT | HL3175073 | Price | HK507343 | Price | GN53R8G33 | Price |

## ALBRECHT Jaws Only For Albrecht Chucks

| Chuck Size | Order No. | Price |
|---|---|---|
| 100J Drill Chucks | HK65U100J | Price |
| 130J Drill Chucks | HK65U130J | Price |
| 15J Drill Chucks | HK65U15J | Price |
| 160J Drill Chucks | HK65U160J | Price |
| 30J Drill Chucks | HK65U30J | Price |
| 50J Drill Chucks | HK65U50J | Price |
| 65J Drill Chucks | HK65U65J | Price |
| 80J Drill Chucks | HK65U80J | Price |

## Jacobs CHUCK Replacement Parts



| | Ball Bearing / Super Chucks Replacement Part Service Kits For Older Model Chucks | | Jaw and Nut Replacement Kit for Newer Models | |
|---|---|---|---|---|
| For Use With | Order No. | Price | Order No. | Price |
| 8-1/2N Drill Chucks | HK5033416 | Price | HK5030343 | Price |
| 11N Drill Chucks | HK5033417 | Price | HK5030344 | Price |
| 14N Drill Chucks | HK5033418 | Price | HK5030345 | Price |
| 16N Drill Chucks | HK5033419 | Price | HK5030346 | Price |
| 18N Drill Chucks | HK5033420 | Price | HK5030347 | Price |
| 20N Drill Chucks | HK5033421 | Price | HK5030348 | Price |

## Keyleashes for Drill Chuck Keys



| For Use With | Order No. | Price |
|---|---|---|
| K0, K1, K7, KG | **HK503685** | Price |
| K30, K32, K2, KK | **HK503686** | Price |

## Knock-Out Drill Drifts

- Heavy duty forged



| OAL (in.) | Thickness (in.) | Width at Hole (in.) | Order No. | Price |
|---|---|---|---|---|
| 4-1/2 | 13/64 | 11/16 | **GT8001** | Price |
| 5-1/8 | 1/4 | 13/16 | **GT8002** | Price |
| 6-3/4 | 5/16 | 1-1/16 | **GT8003** | Price |
| 7-1/8 | 15/32 | 1-1/8 | **GT8004** | Price |

## Safety Shield Chip Hook-R

- New safety orange shielded chip puller
- 5" Diameter shield
- 1" Diameter handle, 4-1/2" long
- 1/4" USA steel rod, 1-1/2" hook with 60° point standard



| Hook Length (in) | Order No. | Price |
|---|---|---|
| 18 | **HF70SCH18** | Price |
| 24 | **HF70SCH24** | Price |
| 30 | **HF70SCH30** | Price |

## Morse Taper Drill Sleeve

**Standard Sleeves:**
- Toughened tang
- Ground externally
- Reamed internally

**Hardened Sleeves:**
- Case hardened throughout
- Ground internally and externally



| | | Hardened | | Standard | |
|---|---|---|---|---|---|
| Inside Taper | Outside Taper | Order No. | Price | Order No. | Price |
| 1MT | 2MT | **GT51012** | Price | **GT50012** | Price |
| 1MT | 3MT | **GT51013** | Price | **GT50013** | Price |
| 1MT | 4MT | **GT51014** | Price | **GT50014** | Price |
| 1MT | 5MT | **GT51015** | Price | **GT50015** | Price |
| 2MT | 3MT | **GT51023** | Price | **GT50023** | Price |
| 2MT | 4MT | **GT51024** | Price | **GT50024** | Price |
| 2MT | 5MT | **GT51025** | Price | **GT50025** | Price |
| 3MT | 4MT | **GT51034** | Price | **GT50034** | Price |
| 3MT | 5MT | **GT51035** | Price | **GT50035** | Price |
| 4MT | 5MT | **GT51045** | Price | **GT50045** | Price |
| 4MT | 6MT | **GT51046** | Price | **GT50046** | Price |
| 5MT | 6MT | **GT51056** | Price | **GT50056** | Price |

## Jacobs Morse Taper Drill Sleeves

- Oil hardened and externally precision ground with hardened tang



| Inside Taper | Outside Taper | Order No. | Price |
|---|---|---|---|
| 1MT | 2MT | **HK5130422** | Price |
| 1MT | 3MT | **HK5130424** | Price |
| 1MT | 4MT | **HK5130427** | Price |
| 2MT | 3MT | **HK5130423** | Price |
| 2MT | 4MT | **HK5130426** | Price |
| 2MT | 5MT | **HK5130430** | Price |
| 3MT | 4MT | **HK5130425** | Price |
| 3MT | 5MT | **HK5130429** | Price |
| 4MT | 5MT | **HK5130428** | Price |
| 4MT | 6MT | **HK5130639** | Price |
| 5MT | 6MT | **HK5130431** | Price |

## Morse Taper Extension Sockets

- Morse Taper Extension Socket



| | | | Jacobs | | Quality Import | |
|---|---|---|---|---|---|---|
| Inside Taper | Outside Taper | OAL (in.) | Order No. | Price | Order No. | Price |
| 1MT | 1MT | 5-3/4 | - | - | **GT60011** | Price |
| 1MT | 2MT | 6-3/8 | - | - | **GT60012** | Price |
| 1MT | 3MT | 6-7/8 | - | - | **GT60013** | Price |
| 1MT | 4MT | 7-7/8 | - | - | **GT60014** | Price |
| 1MT | 5MT | 9-1/8 | - | - | **GT60015** | Price |
| 2MT | 1MT | 6-3/8 | - | - | **GT60021** | Price |
| 2MT | 2MT | 6-7/8 | **HK5130446** | Price | **GT60022** | Price |
| 2MT | 3MT | 7-5/8 | **HK5130449** | Price | **GT60023** | Price |
| 2MT | 4MT | 8-1/2 | - | - | **GT60024** | Price |
| 2MT | 5MT | 9-3/4 | - | - | **GT60025** | Price |
| 3MT | 2MT | 7-3/4 | **HK5130447** | Price | **GT60032** | Price |
| 3MT | 3MT | 8-1/2 | **HK5130450** | Price | **GT60033** | Price |
| 3MT | 4MT | 9-3/8 | **HK5130452** | Price | **GT60034** | Price |
| 3MT | 5MT | 10-5/8 | - | - | **GT60035** | Price |
| 4MT | 3MT | 9-3/8 | **HK5130451** | Price | **GT60043** | Price |
| 4MT | 4MT | 10-1/2 | **HK5130453** | Price | **GT60044** | Price |
| 4MT | 5MT | 11-7/8 | **HK5130455** | Price | **GT60045** | Price |
| 4MT | 6MT | 14 | - | - | **GT60046** | Price |
| 5MT | 3MT | 10-5/8 | - | - | **GT60053** | Price |
| 5MT | 4MT | 11-7/8 | **HK5130454** | Price | **GT60054** | Price |
| 5MT | 5MT | 13-1/4 | **HK5130456** | Price | **GT60055** | Price |
| 5MT | 6MT | 15-3/8 | - | - | **GT60056** | Price |
| 6MT | 6MT | 18-9/16 | - | - | **GT60066** | Price |

## Long Extension Sockets

- Precision ground and completely hardened
- Extra length sockets to reach the more distant location for machining



| Inside Taper | Outside Taper | OAL (in.) | Order No. | Price |
|---|---|---|---|---|
| 1MT | 2MT | 10-3/16 | **GT65812** | Price |
| 2MT | 2MT | 11-9/16 | **GT65822** | Price |
| 2MT | 3MT | 12-5/16 | **GT65823** | Price |
| 2MT | 4MT | 13-5/16 | **GT65824** | Price |
| 3MT | 3MT | 14 | **GT65833** | Price |
| 3MT | 4MT | 15 | **GT65834** | Price |
| 4MT | 3MT | 15-15/16 | **GT65843** | Price |
| 4MT | 4MT | 16-15/16 | **GT65844** | Price |
| 5MT | 5MT | 20-13/16 | **GT65855** | Price |

## Solid Sockets



- Soft series have a straight O.D. tapered inside and are externally ground
- Hard series sockets have a straight O.D. tapered inside and are internally & externally ground

| | | | Hardened | | Soft | |
|---|---|---|---|---|---|---|
| Inside Taper | Outside Dia. (in.) | OAL (in) | Order No. | Price | Order No. | Price |
| 1MT | 1 | 3-1/2 | **GT59001** | Price | **GT58001** | Price |
| 1MT | 1-1/4 | 3-1/2 | **GT59002** | Price | **GT58002** | Price |
| 1MT | 1-1/2 | 3-1/2 | **GT59003** | Price | **GT58003** | Price |
| 2MT | 1 | 4 | **GT59004** | Price | **GT58004** | Price |
| 2MT | 1-1/4 | 4 | **GT59005** | Price | **GT58005** | Price |
| 2MT | 1-1/2 | 4 | **GT59006** | Price | **GT58006** | Price |
| 2MT | 1-3/4 | 4 | **GT59007** | Price | **GT58007** | Price |
| 2MT | 2 | 4 | **GT59008** | Price | **GT58008** | Price |
| 3MT | 1-1/4 | 4-3/4 | **GT59009** | Price | **GT58009** | Price |
| 3MT | 1-1/2 | 4-3/4 | **GT59010** | Price | **GT58010** | Price |
| 3MT | 1-3/4 | 4-3/4 | **GT59011** | Price | **GT58011** | Price |
| 3MT | 2 | 4-3/4 | **GT59012** | Price | **GT58012** | Price |
| 4MT | 1-1/2 | 6 | **GT59013** | Price | **GT58013** | Price |
| 4MT | 1-3/4 | 6 | **GT59014** | Price | **GT58014** | Price |
| 4MT | 2 | 6 | **GT59015** | Price | **GT58015** | Price |
| 5MT | 2-1/2 | 7-3/8 | **GT59017** | Price | **GT58017** | Price |
| 5MT | 2-1/4 | 7-3/8 | **GT59016** | Price | **GT58016** | Price |

## Rough Sockets

MADE IN THE USA

- Finished Morse taper inside and outside end
- Other end blank to allow turning to fit machine



| Inside Taper | Outside Dia. (in.) | OAL (in.) | Order No. | Price |
|---|---|---|---|---|
| 1MT | 1-1/8 | 7-1/2 | **GT7001** | Price |
| 2MT | 1-1/4 | 8 | **GT7002** | Price |
| 3MT | 1-5/8 | 10 | **GT7003** | Price |
| 4MT | 2 | 12-1/2 | **GT7004** | Price |
| 5MT | 2-3/4 | 16 | **GT7005** | Price |

## Split Sleeve Drill Drivers



### Fractional — Letter — Wire Gage

- For straight shank tools
- Drill driver provides the means of adapting straight shank drill to morse taper spindles

| Morse Taper Shank - 1 | | |
|---|---|---|
| Drill Size (in.) | Order No. | Price |
| 1/16 | **HA6071117** | Price |
| 5/64 | **HA6071125** | Price |
| 1/8 | **HA6071149** | Price |
| 9/64, #28 | **HA6071156** | Price |
| 5/32 | **HA6071162** | Price |
| 11/64 | **HA6071168** | Price |
| 3/16 | **HA6071174** | Price |
| 13/64 | **HA6071181** | Price |
| 7/32 | **HA6071186** | Price |
| 15/64, A | **HA6071191** | Price |
| 1/4, E | **HA6071196** | Price |
| 17/64, H | **HA6071200** | Price |
| 9/32, K | **HA6071205** | Price |
| 19/64 | **HA6071210** | Price |
| 5/16 | **HA6071213** | Price |
| 21/64 | **HA6071216** | Price |
| 11/32 | **HA6071219** | Price |
| 23/64 | **HA6071223** | Price |
| 3/8 | **HA6071225** | Price |

| Morse Taper Shank - 2 | | |
|---|---|---|
| Drill Size (in.) | Order No. | Price |
| 1/16 | **HA6072202** | Price |
| 3/32, #42 | **HA6072219** | Price |
| 7/64 | **HA6072227** | Price |
| 1/8 | **HA6072234** | Price |
| 9/64, #28 | **HA6072241** | Price |
| 5/32 | **HA6072247** | Price |
| 11/64 | **HA6072253** | Price |
| 3/16 | **HA6072259** | Price |
| 13/64 | **HA6072266** | Price |
| 7/32, #2 | **HA6072271** | Price |
| 15/64, A | **HA6072276** | Price |
| 1/4, E | **HA6072281** | Price |
| 17/64, H | **HA6072285** | Price |
| 9/32, K | **HA6072290** | Price |

| Morse Taper Shank - 2 | | |
|---|---|---|
| Drill Size (in.) | Order No. | Price |
| 19/64 | **HA6072295** | Price |
| 5/16 | **HA6072298** | Price |
| 21/64 | **HA6072301** | Price |
| 11/32 | **HA6072304** | Price |
| 23/64 | **HA6072308** | Price |
| 3/8 | **HA6072310** | Price |
| 25/64 | **HA6072313** | Price |
| 13/32 | **HA6072316** | Price |
| 27/64 | **HA6072318** | Price |
| 7/16 | **HA6072319** | Price |
| 29/64 | **HA6072320** | Price |
| 15/32 | **HA6072321** | Price |
| 31/64 | **HA6072322** | Price |
| 1/2 | **HA6072323** | Price |
| 33/64 | **HA6072324** | Price |
| 17/32 | **HA6072325** | Price |
| 35/64 | **HA6072326** | Price |
| 9/16 | **HA6072327** | Price |

| Morse Taper Shank - 3 | | |
|---|---|---|
| Drill Size (in.) | Order No. | Price |
| 13/32 | **HA6073005** | Price |
| 27/64 | **HA6073007** | Price |
| 7/16 | **HA6073008** | Price |
| 29/64 | **HA6073009** | Price |
| 15/32 | **HA6073010** | Price |
| 31/64 | **HA6073011** | Price |
| 1/2 | **HA6073012** | Price |
| 33/64 | **HA6073013** | Price |
| 17/32 | **HA6073014** | Price |
| 9/16 | **HA6073016** | Price |
| 37/64 | **HA6073017** | Price |
| 19/32 | **HA6073018** | Price |
| 39/64 | **HA6073019** | Price |
| 5/8 | **HA6073020** | Price |
| 41/64 | **HA6073021** | Price |

| Morse Taper Shank - 3 | | |
|---|---|---|
| Drill Size (in.) | Order No. | Price |
| 21/32 | **HA6073022** | Price |
| 43/64 | **HA6073023** | Price |
| 11/16 | **HA6073024** | Price |
| 45/64 | **HA6073025** | Price |
| 23/32 | **HA6073026** | Price |
| 47/64 | **HA6073027** | Price |
| 3/4 | **HA6073028** | Price |

| Morse Taper Shank - 4 | | |
|---|---|---|
| Drill Size (in.) | Order No. | Price |
| 23/64 | **HA6074009** | Price |
| 37/64 | **HA6074000** | Price |
| 19/32 | **HA6074001** | Price |
| 39/64 | **HA6074002** | Price |
| 5/8 | **HA6074003** | Price |
| 41/64 | **HA6074004** | Price |
| 21/32 | **HA6074005** | Price |
| 43/64 | **HA6074006** | Price |
| 11/16 | **HA6074007** | Price |
| 45/64 | **HA6074008** | Price |
| 47/64 | **HA6074010** | Price |
| 3/4 | **HA6074011** | Price |
| 25/32 | **HA6074013** | Price |
| 51/64 | **HA6074014** | Price |
| 13/16 | **HA6074015** | Price |
| 53/64 | **HA6074016** | Price |
| 27/32 | **HA6074017** | Price |
| 7/8 | **HA6074019** | Price |
| 57/64 | **HA6074020** | Price |
| 59/64 | **HA6074022** | Price |
| 15/16 | **HA6074023** | Price |
| 61/64 | **HA6074024** | Price |
| 31/32 | **HA6074025** | Price |
| 63/64 | **HA6074026** | Price |
| 1 | **HA6074027** | Price |

## R8 Round Collets



**Rapidhold:**
- Made of High Grade Steel
- Hardened and Precision Ground
- Internal thread 7/16”-20
- .0005” T.I.R

**Lyndex:**
- Within .0005” TIR 1” from face
- All Collets have 7/16-20 drawbar threads

**World Class Quality:**
- For general shop uses
- .0005” TIR

RAPIDHOLD LYNDEX WORLD CLASS QUALITY

| | Rapidhold | | Lyndex | | Quality Import | |
|---|---|---|---|---|---|---|
| Size (in.) | Order No. | Price | Order No. | Price | Order No. | Price |
| 1/16 | GP83004 | Price | GP35004 | Price | GP30004 | Price |
| 3/32 | GP83006 | Price | GP35006 | Price | GP30006 | Price |
| 1/8 | GP83008 | Price | GP35008 | Price | GP30008 | Price |
| 5/32 | GP83010 | Price | GP35010 | Price | GP30010 | Price |
| 3/16 | GP83012 | Price | GP35012 | Price | GP30012 | Price |
| 7/32 | GP83014 | Price | GP35014 | Price | GP30014 | Price |
| 1/4 | GP83016 | Price | GP35016 | Price | GP30016 | Price |
| 9/32 | GP83018 | Price | GP35018 | Price | GP30018 | Price |
| 5/16 | GP83020 | Price | GP35020 | Price | GP30020 | Price |
| 11/32 | GP83022 | Price | GP35022 | Price | GP30022 | Price |
| 3/8 | GP83024 | Price | GP35024 | Price | GP30024 | Price |
| 13/32 | GP83026 | Price | GP35026 | Price | GP30026 | Price |
| 7/16 | GP83028 | Price | GP35028 | Price | GP30028 | Price |
| 15/32 | GP83030 | Price | GP35030 | Price | GP30030 | Price |
| 1/2 | GP83032 | Price | GP35032 | Price | GP30032 | Price |
| 17/32 | GP83034 | Price | GP35034 | Price | GP30034 | Price |
| 9/16 | GP83036 | Price | GP35036 | Price | GP30036 | Price |
| 19/32 | GP83038 | Price | GP35038 | Price | GP30038 | Price |
| 5/8 | GP83040 | Price | GP35040 | Price | GP30040 | Price |
| 21/32 | GP83042 | Price | GP35042 | Price | GP30042 | Price |
| 11/16 | GP83044 | Price | GP35044 | Price | GP30044 | Price |
| 23/32 | GP83046 | Price | GP35046 | Price | GP30046 | Price |
| 3/4 | GP83048 | Price | GP35048 | Price | GP30048 | Price |
| 25/32 | GP83050 | Price | GP35050 | Price | GP30050 | Price |
| 13/16 | GP83052 | Price | GP35052 | Price | GP30052 | Price |
| 27/32 | GP83054 | Price | GP35054 | Price | GP30054 | Price |
| 7/8 | GP83056 | Price | GP35056 | Price | GP30056 | Price |
| 1 | GP83064 | Price | - | - | - | - |

## Metric R8 Collets

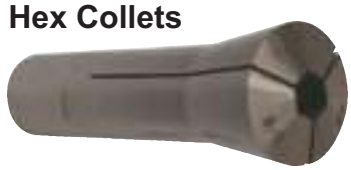


- Made of High Grade Steel
- Hardened and Precision Ground
- Internal thread 7/16”-20
- .0005” T.I.R

RAPIDHOLD LYNDEX

| | Rapidhold | | Lyndex | |
|---|---|---|---|---|
| Size (in.) | Order No. | Price | Order No. | Price |
| 2.0mm | GP832MM | Price | - | - |
| 3.0mm | GP833MM | Price | GP32003 | Price |
| 4.0mm | GP834MM | Price | GP32004 | Price |
| 5.0mm | GP835MM | Price | GP32005 | Price |
| 6.0mm | GP836MM | Price | GP32006 | Price |
| 7.0mm | GP837MM | Price | - | - |
| 8.0mm | GP838MM | Price | GP32008 | Price |
| 9.0mm | GP839MM | Price | - | - |
| 10.0mm | GP8310MM | Price | GP32010 | Price |
| 11.0mm | GP8311MM | Price | - | - |
| 12.0mm | GP8312MM | Price | GP32012 | Price |
| 13.0mm | GP8313MM | Price | - | - |
| 14.0mm | GP8314MM | Price | GP32014 | Price |
| 15.0mm | GP8315MM | Price | GP32015 | Price |
| 16.0mm | GP8316MM | Price | GP32016 | Price |
| 17.0mm | GP8317MM | Price | - | - |
| 18.0mm | GP8318MM | Price | GP32018 | Price |
| 19.0mm | GP8319MM | Price | - | - |
| 20.0mm | GP8320MM | Price | - | - |
| 21.0mm | GP8321MM | Price | - | - |
| 22.0mm | GP8322MM | Price | - | - |
| 23.0mm | GP8323MM | Price | - | - |
| 24.0mm | GP8324MM | Price | - | - |

## RAPIDHOLD R8 Hex Collets



- Made of High Grade Steel
- Hardened and Precision Ground
- Internal thread 7/16”-20
- .0005” T.I.R

| Size (in.) | Order No. | Price |
|---|---|---|
| 1/8 | GP84008 | Price |
| 5/32 | GP84010 | Price |
| 3/16 | GP84012 | Price |
| 1/4 | GP84016 | Price |
| 9/32 | GP84018 | Price |
| 5/16 | GP84020 | Price |
| 11/32 | GP84022 | Price |
| 3/8 | GP84024 | Price |
| 13/32 | GP84026 | Price |
| 7/16 | GP84028 | Price |
| 15/32 | GP84030 | Price |

| Size (in.) | Order No. | Price |
|---|---|---|
| 1/2 | GP84032 | Price |
| 17/32 | GP84034 | Price |
| 9/16 | GP84036 | Price |
| 19/32 | GP84038 | Price |
| 5/8 | GP84040 | Price |
| 21/32 | GP84042 | Price |
| 11/16 | GP84044 | Price |
| 23/32 | GP84046 | Price |
| 3/4 | GP84048 | Price |
| 25/32 | GP84050 | Price |

## RAPIDHOLD R8 Square Collets



- Made of High Grade Steel
- Hardened and Precision Ground
- Internal thread 7/16”-20
- .002” T.I.R

| Size (in.) | Order No. | Price |
|---|---|---|
| 1/8 | GP85008 | Price |
| 5/32 | GP85010 | Price |
| 3/16 | GP85012 | Price |
| 1/4 | GP85016 | Price |
| 9/32 | GP85018 | Price |
| 5/16 | GP85020 | Price |
| 11/32 | GP85022 | Price |

| Size (in.) | Order No. | Price |
|---|---|---|
| 3/8 | GP85024 | Price |
| 13/32 | GP85026 | Price |
| 7/16 | GP85028 | Price |
| 15/32 | GP85030 | Price |
| 1/2 | GP85032 | Price |
| 17/32 | GP85034 | Price |
| 9/16 | GP85036 | Price |

## RAPIDHOLD R8 Square Metric Collets



- Made of High Grade Steel
- Hardened and Precision Ground
- Internal thread 7/16”-20
- .002” T.I.R

| Size | Order No. | Price |
|---|---|---|
| 3.0mm | GP853MM | Price |
| 4.0mm | GP854MM | Price |
| 5.0mm | GP855MM | Price |
| 5.5mm | GP8555MM | Price |
| 6.0mm | GP856MM | Price |

| Size | Order No. | Price |
|---|---|---|
| 7.0mm | GP857MM | Price |
| 8.0mm | GP858MM | Price |
| 9.0mm | GP859MM | Price |
| 9.5mm | GP8595MM | Price |

## RAPIDHOLD R8 Hex Metric Collets



- Made of High Grade Steel
- Hardened and Precision Ground
- Internal thread 7/16”-20
- .0005” T.I.R

| Size | Order No. | Price |
|---|---|---|
| 3.0mm | GP843MM | Price |
| 4.0mm | GP844MM | Price |
| 5.0mm | GP845MM | Price |
| 6.0mm | GP846MM | Price |
| 7.0mm | GP847MM | Price |
| 8.0mm | GP848MM | Price |
| 9.0mm | GP849MM | Price |
| 10.0mm | GP8410MM | Price |
| 11.0mm | GP8411MM | Price |
| 12.0mm | GP8412MM | Price |

| Size | Order No. | Price |
|---|---|---|
| 13.0mm | GP8413MM | Price |
| 13.5mm | GP84135MM | Price |
| 14.0mm | GP8414MM | Price |
| 15.0mm | GP8415MM | Price |
| 16.0mm | GP8416MM | Price |
| 17.0mm | GP8417MM | Price |
| 17.5mm | GP84175MM | Price |
| 18.0mm | GP8418MM | Price |
| 19.0mm | GP8419MM | Price |
| 20.0mm | GP8420MM | Price |

## R8 Collet Sets

### Complete with Metal Stand

- Collets are made with hardened threaded bushing in back for long life
- R8 Collets DO NOT collapse
- Closed cover protects collets from chip at all times



RAPIDHOLD LYNDEX WORLD CLASS QUALITY

| | | | Rapidhold | | Lyndex | | Quality Import | |
|---|---|---|---|---|---|---|---|---|
| Size Range | No. of Collets | No. of Stands Incl. | Order No. | Price | Order No. | Price | Order No. | Price |
| 1/16 - 3/4 x 16ths | 12 | 1 | - | - | GP70R8CR12P | Price | GP70R8CR12 | Price |
| 1/16 - 3/4 x 32nds | 23 | 2 | - | - | GP70R8CR23P | Price | GP70R8CR23 | Price |
| 1/16 to 7/8 x 16ths | 14 | 1 | GP872312214 | Price | - | - | - | - |
| 1/8 to 3/4 x 8ths | 6 | 1 | GP872312206 | Price | - | - | - | - |
| 2.0mm to 20.0mm x 1.0mm | 19 | 1 | GP872312219 | Price | - | - | - | - |
| 3mm - 18mm | 11 | 1 | - | - | GP70R8CR11MP | Price | - | - |

## RAPIDHOLD R8 Emergency Collets

- Can be drilled, bored or machined with HSS Tool bit
- Face & Pilot hole are soft to permit machining
- Internal Thread 7/16"-20


R8ECB


R8ECN


R8ECS

| Material | Order No. | Price |
|---|---|---|
| Brass | GP87R8ECB | Price |
| Nylon | GP87R8ECN | Price |
| Steel | GP87R8ECS | Price |

## WORLD CLASS QUALITY Bridgeport Collet & Tool Tray

- This convenient tray will cut down set-up time and tool changing time
- Every operator works more efficiently when tools are neatly organized
- Easy to install, only a few minutes required to drill and tap two 1/4" holes in the base casting 1" below the degree ring
- Sturdy aluminum casting



| Order No. | Price |
|---|---|
| GC51001 | Price |

## End Mill Holders with R8 Shank

- Made of Alloy Forged Steel for a long durable service life
- Hardened to RC 56-60 and ground to ensure maximum accuracy
- Draw bar thread 7/16"-20



RAPIDKUT WORLD CLASS QUALITY

| | Rapidkut | | Quality Import | |
|---|---|---|---|---|
| Size (in.) | Order No. | Price | Order No. | Price |
| 3/16 | TS1127101 | Price | GN50R8E316 | Price |
| 3/8 | TS1127102 | Price | GN50R8E38 | Price |
| 1/2 | TS1127103 | Price | GN50R8E12 | Price |
| 5/8 | TS1127104 | Price | GN50R8E58 | Price |
| 3/4 | TS1127105 | Price | GN50R8E34† | Price |
| 7/8 | TS1127106 | Price | GN50R8E78† | Price |
| 1 | TS1127107 | Price | GN50R8E1† | Price |
| 1-1/4 | - | - | GN50R8E114† | Price |
| 1-1/2 | - | - | GN50R8E112† | Price |

**†Single End Endmills Only.**

## WORLD CLASS QUALITY R8 Collet Stand

- Holds 12 Pcs.
- R8 Collets



| Order No. | Price |
|---|---|
| GP70R8CR | Price |

## WORLD CLASS QUALITY Rotating R8 Collet Rack

- Rotates with finger touch for easy size selection



| Holds | Model No. | Order No. | Price |
|---|---|---|---|
| 11 Piece | R8-R11 | GP70R8CRR | Price |

## WORLD CLASS QUALITY 8 Pc. R8 End Mill Holder Set

- Made of Alloy Forged Steel for a long durable service life
- Hardened to RC 56-60 and ground to ensure maximum accuracy
- Draw bar thread 7/16"-20



| Sizes Included (in.) | Order No. | Price |
|---|---|---|
| 3/16 thru 1-1/4 | GN50RB8 | Price |

## Shell End Mill Arbors with R8 Shank

- Made of Alloy Forged Steel for a long durable service life
- Hardened to RC 56-60 and ground to ensure maximum accuracy
- Draw bar thread 7/16”-20



| | | ETM | | Quality Import | |
|---|---|---|---|---|---|
| Pilot Dia. (in.) | Size Range (in.) | Order No. | Price | Order No. | Price |
| 1/2 | 1-1/4 to 1-1/2 | **GN61R8S12** | Price | **GN51R8S12** | Price |
| 3/4 | 1-3/4 to 2 | **-** | - | **GN51R8S34** | Price |
| 1 | 2-1/4 to 2-3/4 | **-** | - | **GN51R8S1** | Price |
| 1-1/4 | 3 to 3-1/2 | **-** | - | **GN51R8S114** | Price |
| 1-1/2 | 4 to 5 | **-** | - | **GN51R8S112** | Price |

## 5 Pc. R8 Shell End Mill Arbor Set

- Made of Alloy Forged Steel for a long durable service life
- Hardened to Rc 56-60 and ground to ensure maximum accuracy
- Draw bar thread 7/16”-20



| Pilot Dia. (in.) | Order No. | Price |
|---|---|---|
| 1/2 thru 1-1/2 | **GN51RB5** | Price |

## Morse Taper Adapters for R8 Shank

- For changing from R8 to MT socket



| Inside Taper | Order No. | Price |
|---|---|---|
| 2MT | **GN52R8M2** | Price |
| 3MT | **GN52R8M3** | Price |

## R8 Stub Milling Arbors

- Made of Alloy Forged Steel
- Hardened to RC 56-60 and ground to ensure maximum accuracy
- Pilot diameter is sized for precision fit with cutter and is keyed for positive drive
- Heavy duty locking LH nut and set of arbor spacers are included
- Draw bar thread 7/16”-20



| Arbor Dia. (in) | Length Shoulder to Nut | Order No. | Price |
|---|---|---|---|
| 1 | 2 | **GN54R8STUB1** | Price |
| 1-1/4 | 2 | **GN54R8STUB114** | Price |

## Individual Fly Cutters

### Straight Shank Cutters



| Shank | Body Dia. (in.) | Toolbit Size (in.) | Order No. | Price |
|---|---|---|---|---|
| 1/2 | 3/4 | 3/16 | **GB50001** | Price |
| 1/2 | 1-1/8 | 1/4 | **GB50002** | Price |
| 1/2 | 1-1/2 | 5/16 | **GB50003** | Price |
| 3/4 | 1-3/8 | 5/16 | **GB50004** | Price |
| 3/4 | 2 | 5/16 | **GB50005** | Price |
| 3/4 | 2-1/2 | 5/16 | **GB50006** | Price |
| R8 | 2-1/2 | 3/8 | **GB50010** | Price |

## Fly Cutter Sets

### Counter Balanced

- Uses standard tool bit (not included)
- Makes wider cuts than end mills
- Faster speeds and better finishes
- **Sets have 3 fly cutters**



| Toolbit Size (in.) | Shank Dia. (in.) | Body Dia. (in.) | Order No. | Price |
|---|---|---|---|---|
| 3/16, 1/4, 5/16 | 1/2 | 3/4, 1-1/8, 1-1/2 | **GB50008** | Price |
| 3/16, 1/4, 5/16 | 3/4 | 1-3/8, 2, 2-1/2 | **GB50007** | Price |

# 5C Collets

## Within .0005” TIR 1” from Face

**Rapidhold:**
- Made of High Grade Steel
- Hardened and Precision Ground
- Internal thread 1.041”-24
- External Thread 1.242”-20
- .0005” T.I.R

**Lyndex:**
- Production quality
- Where tighter tolerances are required



LYNDEX RAPIDHOLD WORLD CLASS QUALITY

| | Lyndex | | Rapidhold | | Quality Import | |
|---|---|---|---|---|---|---|
| Size (in.) | Order No. | Price | Order No. | Price | Order No. | Price |
| 3/64 | GP45003 | Price | GP80003 | Price | - | - |
| 1/16 | GP45004 | Price | GP80004 | Price | GP40004 | Price |
| 5/64 | GP45005 | Price | GP80005 | Price | GP40005 | Price |
| 3/32 | GP45006 | Price | GP80006 | Price | GP40006 | Price |
| 7/64 | GP45007 | Price | GP80007 | Price | GP40007 | Price |
| 1/8 | GP45008 | Price | GP80008 | Price | GP40008 | Price |
| 9/64 | GP45009 | Price | GP80009 | Price | GP40009 | Price |
| 5/32 | GP45010 | Price | GP80010 | Price | GP40010 | Price |
| 11/64 | GP45011 | Price | GP80011 | Price | GP40011 | Price |
| 3/16 | GP45012 | Price | GP80012 | Price | GP40012 | Price |
| 13/64 | GP45013 | Price | GP80013 | Price | GP40013 | Price |
| 7/32 | GP45014 | Price | GP80014 | Price | GP40014 | Price |
| 15/64 | GP45015 | Price | GP80015 | Price | GP40015 | Price |
| 1/4 | GP45016 | Price | GP80016 | Price | GP40016 | Price |
| 17/64 | GP45017 | Price | GP80017 | Price | GP40017 | Price |
| 9/32 | GP45018 | Price | GP80018 | Price | GP40018 | Price |
| 19/64 | GP45019 | Price | GP80019 | Price | GP40019 | Price |
| 5/16 | GP45020 | Price | GP80020 | Price | GP40020 | Price |
| 21/64 | GP45021 | Price | GP80021 | Price | GP40021 | Price |
| 11/32 | GP45022 | Price | GP80022 | Price | GP40022 | Price |
| 23/64 | GP45023 | Price | GP80023 | Price | GP40023 | Price |
| 3/8 | GP45024 | Price | GP80024 | Price | GP40024 | Price |
| 25/64 | GP45025 | Price | GP80025 | Price | GP40025 | Price |
| 13/32 | GP45026 | Price | GP80026 | Price | GP40026 | Price |
| 27/64 | GP45027 | Price | GP80027 | Price | GP40027 | Price |
| 7/16 | GP45028 | Price | GP80028 | Price | GP40028 | Price |
| 29/64 | GP45029 | Price | GP80029 | Price | GP40029 | Price |
| 15/32 | GP45030 | Price | GP80030 | Price | GP40030 | Price |
| 31/64 | GP45031 | Price | GP80031 | Price | GP40031 | Price |
| 1/2 | GP45032 | Price | GP80032 | Price | GP40032 | Price |
| 33/64 | GP45033 | Price | GP80033 | Price | GP40033 | Price |
| 17/32 | GP45034 | Price | GP80034 | Price | GP40034 | Price |
| 35/64 | GP45035 | Price | GP80035 | Price | GP40035 | Price |
| 9/16 | GP45036 | Price | GP80036 | Price | GP40036 | Price |
| 37/64 | GP45037 | Price | GP80037 | Price | GP40037 | Price |
| 19/32 | GP45038 | Price | GP80038 | Price | GP40038 | Price |

LYNDEX RAPIDHOLD WORLD CLASS QUALITY

| | Lyndex | | Rapidhold | | Quality Import | |
|---|---|---|---|---|---|---|
| Size (in.) | Order No. | Price | Order No. | Price | Order No. | Price |
| 39/64 | GP45039 | Price | GP80039 | Price | GP40039 | Price |
| 5/8 | GP45040 | Price | GP80040 | Price | GP40040 | Price |
| 41/64 | GP45041 | Price | GP80041 | Price | GP40041 | Price |
| 21/32 | GP45042 | Price | GP80042 | Price | GP40042 | Price |
| 43/64 | GP45043 | Price | GP80043 | Price | GP40043 | Price |
| 11/16 | GP45044 | Price | GP80044 | Price | GP40044 | Price |
| 45/64 | GP45045 | Price | GP80045 | Price | GP40045 | Price |
| 23/32 | GP45046 | Price | GP80046 | Price | GP40046 | Price |
| 47/64 | GP45047 | Price | GP80047 | Price | GP40047 | Price |
| 3/4 | GP45048 | Price | GP80048 | Price | GP40048 | Price |
| 49/64 | GP45049 | Price | GP80049 | Price | GP40049 | Price |
| 25/32 | GP45050 | Price | GP80050 | Price | GP40050 | Price |
| 51/64 | GP45051 | Price | GP80051 | Price | GP40051 | Price |
| 13/16 | GP45052 | Price | GP80052 | Price | GP40052 | Price |
| 53/64 | GP45053 | Price | GP80053 | Price | GP40053 | Price |
| 27/32 | GP45054 | Price | GP80054 | Price | GP40054 | Price |
| 55/64 | GP45055 | Price | GP80055 | Price | GP40055 | Price |
| 7/8 | GP45056 | Price | GP80056 | Price | GP40056 | Price |
| 57/64 | GP45057 | Price | GP80057 | Price | GP40057 | Price |
| 29/32 | GP45058 | Price | GP80058 | Price | GP40058 | Price |
| 59/64 | GP45059 | Price | GP80059 | Price | GP40059 | Price |
| 15/16 | GP45060 | Price | GP80060 | Price | GP40060 | Price |
| 61/64 | GP45061 | Price | GP80061 | Price | GP40061 | Price |
| 31/32 | GP45062 | Price | GP80062 | Price | GP40062 | Price |
| 63/64 | GP45063 | Price | GP80063 | Price | GP40063 | Price |
| 1 | GP45100 | Price | GP80064 | Price | GP40100 | Price |
| 1-1/32 | GP45102 | Price | GP80102 | Price | GP40102 | Price |
| 1-1/64 | GP45101 | Price | GP80101 | Price | GP40101 | Price |
| 1-1/8 | GP45108 | Price | GP80108 | Price | GP40108 | Price |
| 1-3/32 | GP45106 | Price | GP80106 | Price | GP40106 | Price |
| 1-3/64 | GP45103 | Price | GP80103 | Price | GP40103 | Price |
| 1-5/64 | GP45105 | Price | GP80105 | Price | GP40105 | Price |
| 1-7/64 | GP45107 | Price | GP80107 | Price | GP40107 | Price |
| 1-1/16 | GP45104 | Price | GP80104 | Price | GP40104 | Price |
| 1/32 | - | - | GP80002 | Price | - | - |

# 5C Metric Round Collets

- Made of High Grade Steel
- Hardened and Precision Ground
- Internal thread 1.041”-24
- External Thread 1.242”-20
- .0005” T.I.R



RAPIDHOLD WORLD CLASS QUALITY

| | Rapidhold | | Quality Import | |
|---|---|---|---|---|
| Size | Order No. | Price | Order No. | Price |
| 2.0mm | GP802MM | Price | - | - |
| 3.0mm | GP803MM | Price | GP43003 | Price |
| 4.0mm | GP804MM | Price | GP43004 | Price |
| 5.0mm | GP805MM | Price | GP43005 | Price |
| 6.0mm | GP806MM | Price | GP43006 | Price |
| 7.0mm | GP807MM | Price | GP43007 | Price |
| 8.0mm | GP808MM | Price | GP43008 | Price |
| 9.0mm | GP809MM | Price | GP43009 | Price |
| 10.0mm | GP8010MM | Price | GP43010 | Price |
| 11.0mm | GP8011MM | Price | GP43011 | Price |
| 12.0mm | GP8012MM | Price | GP43012 | Price |
| 13.0mm | GP8013MM | Price | GP43013 | Price |
| 14.0mm | GP8014MM | Price | GP43014 | Price |
| 15.0mm | GP8015MM | Price | GP43015 | Price |
| 16.0mm | GP8016MM | Price | GP43016 | Price |

RAPIDHOLD WORLD CLASS QUALITY

| | Rapidhold | | Quality Import | |
|---|---|---|---|---|
| Size | Order No. | Price | Order No. | Price |
| 17.0mm | GP8017MM | Price | GP43017 | Price |
| 18.0mm | GP8018MM | Price | GP43018 | Price |
| 19.0mm | GP8019MM | Price | - | - |
| 20.0mm | GP8020MM | Price | GP43020 | Price |
| 21.0mm | GP8021MM | Price | - | - |
| 22.0mm | GP8022MM | Price | GP43022 | Price |
| 23.0mm | GP8023MM | Price | - | - |
| 24.0mm | GP8024MM | Price | GP43024 | Price |
| 25.0mm | GP8025MM | Price | GP43025 | Price |
| 26.0mm | GP8026MM | Price | - | - |
| 27.0mm | GP8027MM | Price | - | - |
| 28.0mm | GP8028MM | Price | - | - |
| 29.0mm | GP8029MM | Price | - | - |
| 30.0mm | GP8030MM | Price | - | - |

## 5C Hex Collets

### Sizes 1/8” to 7/8” x 16ths



- Made of High Grade Steel
- Hardened and Precision Ground
- Internal thread 1.041”-24
- External Thread 1.242”-20
- .0005” T.I.R

| | Rapidhold | | Quality Import | |
|---|---|---|---|---|
| Size (in.) | Order No. | Price | Order No. | Price |
| 1/8 | **GP81008** | Price | **GP41008** | Price |
| 5/32 | **GP81010** | Price | **-** | - |
| 3/16 | **GP81012** | Price | **GP41012** | Price |
| 7/32 | **GP81014** | Price | **-** | - |
| 1/4 | **GP81016** | Price | **GP41016** | Price |
| 9/32 | **GP81018** | Price | **-** | - |
| 5/16 | **GP81020** | Price | **GP41020** | Price |
| 11/32 | **GP81022** | Price | **-** | - |
| 3/8 | **GP81024** | Price | **GP41024** | Price |
| 13/32 | **GP81026** | Price | **-** | - |
| 7/16 | **GP81028** | Price | **GP41028** | Price |
| 15/32 | **GP81030** | Price | **-** | - |
| 1/2 | **GP81032** | Price | **GP41032** | Price |
| 17/32 | **GP81034** | Price | **-** | - |
| 9/16 | **GP81036** | Price | **GP41036** | Price |
| 19/32 | **GP81038** | Price | **-** | - |
| 5/8 | **GP81040** | Price | **GP41040** | Price |
| 21/32 | **GP81042** | Price | **-** | - |
| 11/16 | **GP81044** | Price | **GP41044** | Price |
| 23/32 | **GP81046** | Price | **-** | - |
| 3/4 | **GP81048** | Price | **GP41048** | Price |
| 25/32 | **GP81050** | Price | **-** | - |
| 13/16 | **GP81052** | Price | **GP41052** | Price |
| 27/32 | **GP81054** | Price | **-** | - |
| 7/8 | **GP81056** | Price | **GP41056** | Price |

## 5C Square Collets

### Sizes 1/8” to 3/4” x 16ths



- Made of High Grade Steel
- Hardened and Precision Ground
- Internal thread 1.041”-24
- External Thread 1.242”-20
- .002” T.I.R

| | Rapidhold | | Quality Import | |
|---|---|---|---|---|
| Size (in.) | Order No. | Price | Order No. | Price |
| 1/8 | **GP82008** | Price | **GP42008** | Price |
| 5/32 | **GP82010** | Price | **-** | - |
| 3/16 | **GP82012** | Price | **GP42012** | Price |
| 7/32 | **GP82014** | Price | **-** | - |
| 1/4 | **GP82016** | Price | **GP42016** | Price |
| 9/32 | **GP82018** | Price | **-** | - |
| 5/16 | **GP82020** | Price | **GP42020** | Price |
| 11/32 | **GP82022** | Price | **-** | - |
| 3/8 | **GP82024** | Price | **GP42024** | Price |
| 13/32 | **GP82026** | Price | **-** | - |
| 7/16 | **GP82028** | Price | **GP42028** | Price |
| 15/32 | **GP82030** | Price | **-** | - |
| 1/2 | **GP82032** | Price | **GP42032** | Price |
| 17/32 | **GP82034** | Price | **-** | - |
| 9/16 | **GP82036** | Price | **GP42036** | Price |
| 19/32 | **GP82038** | Price | **-** | - |
| 5/8 | **GP82040** | Price | **GP42040** | Price |
| 21/32 | **GP82042** | Price | **-** | - |
| 11/16 | **GP82044** | Price | **GP42044** | Price |
| 23/32 | **GP82046** | Price | **-** | - |
| 3/4 | **GP82048** | Price | **GP42048** | Price |

## RAPIDHOLD 5C Metric Hex Collets

- Made of High Grade Steel
- Hardened and Precision Ground
- Internal thread 1.041”-24
- External Thread 1.242”-20
- .0005” T.I.R



| Size | Order No. | Price |
|---|---|---|
| 3.0mm | **GP813MM** | Price |
| 4.0mm | **GP814MM** | Price |
| 5.0mm | **GP815MM** | Price |
| 6.0mm | **GP816MM** | Price |
| 7.0mm | **GP817MM** | Price |
| 8.0mm | **GP818MM** | Price |
| 9.0mm | **GP819MM** | Price |
| 10.0mm | **GP8110MM** | Price |
| 11.0mm | **GP8111MM** | Price |
| 12.0mm | **GP8112MM** | Price |
| 13.5mm | **GP81135MM** | Price |
| 13.0mm | **GP8113MM** | Price |
| 14.0mm | **GP8114MM** | Price |
| 15.0mm | **GP8115MM** | Price |
| 16.0mm | **GP8116MM** | Price |
| 17.5mm | **GP81175MM** | Price |
| 17.0mm | **GP8117MM** | Price |
| 18.0mm | **GP8118MM** | Price |
| 19.0mm | **GP8119MM** | Price |

## RAPIDHOLD 5C Square Metric Collets

- Made of High Grade Steel
- Hardened and Precision Ground
- Internal thread 1.041”-24
- External Thread 1.242”-20
- .002” T.I.R



| Size | Order No. | Price |
|---|---|---|
| 9.5mm | **GP8295MM** | Price |
| 3.0mm | **GP823MM** | Price |
| 4.0mm | **GP824MM** | Price |
| 5.0mm | **GP825MM** | Price |
| 5.5mm | **GP8255MM** | Price |
| 6.0mm | **GP826MM** | Price |
| 7.0mm | **GP827MM** | Price |
| 8.0mm | **GP828MM** | Price |
| 9.0mm | **GP829MM** | Price |
| 10.0mm | **GP8210MM** | Price |
| 11.0mm | **GP8211MM** | Price |
| 12.0mm | **GP8212MM** | Price |
| 13.0mm | **GP8213MM** | Price |
| 13.5mm | **GP82135MM** | Price |
| 14.0mm | **GP8214MM** | Price |
| 15.0mm | **GP8215MM** | Price |
| 16.0mm | **GP8216MM** | Price |
| 17.0mm | **GP8217MM** | Price |
| 17.5mm | **GP82175MM** | Price |
| 18.0mm | **GP8218MM** | Price |
| 19.0mm | **GP8219MM** | Price |

## 5C Collet Sets

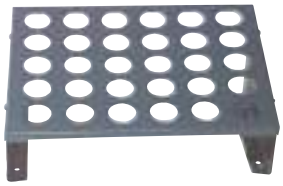
- All 5C collets have external and internal threads
- Hardened & ground throught

| Opening Shape - Hex Brand Name - Quality Import | | | | |
|---|---|---|---|---|
| Size Range | No. of Collets | No. of Stands Incl. | Order No. | Price |
| 1/8 - 7/8 x 16ths | 13 | 1 | GP705CCR13HP | Price |

| Opening Shape - Round Brand Name - Lyndex | | | | |
|---|---|---|---|---|
| Size Range | No. of Collets | No. of Stands Incl. | Order No. | Price |
| 1/16 - 1-1/8 x 16ths | 18 | 1 | GP705CCR18P | Price |
| 1/16 - 1-1/8 x 32nds | 35 | 2 | GP705CCR35P | Price |
| 1/16 - 1-1/8 x 64ths | 69 | 3 | GP705CCR69P | Price |

| Opening Shape - Round Brand Name - Quality Import | | | | |
|---|---|---|---|---|
| Size Range | No. of Collets | No. of Stands Incl. | Order No. | Price |
| 1/16 - 1-1/8 x 16ths | 18 | 1 | GP705CCR18 | Price |
| 1/16 - 1-1/8 x 32nds | 35 | 2 | GP705CCR35 | Price |
| 1/16 - 1-1/8 x 64ths | 69 | 3 | GP705CCR69 | Price |
| 3mm - 25mm | 14 | 1 | GP705CCR14MP | Price |

## 5C Collet Stand



- Metric Rack
- Holds 30 Pcs. 5C Collets

| Order No. | Price |
|---|---|
| GP705CCR | Price |

## 5C Steel Emergency Collet



- Soft face for easy machining which allows operator to bore or shape collet as desired

| | Rapidhold | | Quality Import | |
|---|---|---|---|---|
| Material | Order No. | Price | Order No. | Price |
| Brass | GP875CEB | Price | - | - |
| Nylon | GP87ECEN | Price | - | - |
| Steel | GP875CES | Price | GP40EC5C | Price |

## 5C Adjustable Threaded Collet Stop



- Fits all standard 5C Collets with internal threads
- The stop rod is adjustable to the desired chucking depth and locked in place by a hex nut

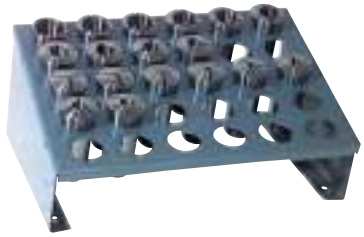
| Item | For Collet Type | Order No. | Price |
|---|---|---|---|
| | 5C | JN50AC5 | Price |
| | 5C | NB80Z9002 | Price |

## 5C Universal Collet Stops



- Converts standard 1" capacity lathe collets into solid stop or spring ejector stop collets without alteration of the standard collets

| Item | For Collet Type | Order No. | Price |
|---|---|---|---|
| | 5C | NB80Z9003 | Price |
| | 5C | JN50UCS5C | Price |



| Opening Shape - Round Brand Name - Rapidhold | | | | |
|---|---|---|---|---|
| Size Range | No. of Collets | No. of Stands Incl. | Order No. | Price |
| 1/16 to 1-1/8 by 16ths | 18 | 1 | GP872308218 | Price |
| 1/16 to 1-1/8 x 32nds | 35 | 1 Rack | GP872308235 | Price |
| 1/16 to 1-1/8 x 64ths | 69 | 1 Rack | GP872308269 | Price |

| Opening Shape - Square Brand Name - Quality Import | | | | |
|---|---|---|---|---|
| Size Range | No. of Collets | No. of Stands Incl. | Order No. | Price |
| 1/8 - 3/4 x 16ths | 11 | 1 | GP705CCR11SP | Price |

## Front Loading 5C Collet Stop



- 24" Length (makes 12-20 stops)
- Quick changing
- Machinable
- Perfect for NC set-ups
- Low cost
- Excellent stop for rings & washers

| Order No. | Price |
|---|---|
| SG7010105 | Price |

## 5C Hex & Square Collet Blocks

### For standard 5C collets 1/16" to 1-1/16" capacity



- For fast set-ups on lathes, milling machines, surface grinders and drill presses
- These blocks will make 60° and 120° indexing a simple job
- Made of tool steel, hardened and ground square and parallel within .0005"
- For use with 5C collets
- Overall dimensions 2 x 2 x 3-1/2"

| Type | For Collet Type | Order No. | Price |
|---|---|---|---|
| Collet Block Set | 5C | JN50ST5C | Price |
| Extra Locking Nut | 5C | JN50RN5C | Price |
| Hex Collet Block | 5C | JN50HX5C | Price |
| Quick-Acting Lever Collet Closer | 5C | JN50LV5C | Price |
| Square Collet Block | 5C | JN50SQ5C | Price |

## Collet Keyway Wrenches



- Simplifies installing and removing a collet in your CNC lathe
- Made with a steel head and fins for strength
- The bright red handle is designed to be comfortable to the hand

| For Collet Type | Fins | Order No. | Price |
|---|---|---|---|
| 16C | 3 | SG701016C | Price |
| 3J | 4 | SG701003J | Price |
| 5C | 3 | SG701005C | Price |

## 5C Step (Clutch) Collets

**Face is soft to permit machining to specifications**



| Dia. of Head (in.) | Order No. | Price |
|---|---|---|
| 2 | **GP60SC2** | Price |
| 3 | **GP60SC3** | Price |
| 4 | **GP60SC4** | Price |
| 5 | **GP60SC5** | Price |
| 6 | **GP60SC6** | Price |

## 4 Pc. Expanding Collet Set in Wooden Stand



| Size Range (in.) | Order No. | Price |
|---|---|---|
| 250 to 1.935 | **GP565CEX** | Price |

## Internal Expanding 5C Collets

- Hold tolerance to within .005
- Fit standard 5C spindles
- Machinable head

| Size Range (in.) | Order No. | Price |
|---|---|---|
| .250 to .460 | **GP565CEX1** | Price |
| .437 to .800 | **GP565CEX2** | Price |
| .750 to 1.435 | **GP565CEX3** | Price |
| .750 to 1.935 | **GP565CEX4** | Price |

## Expanding Arbors

- Used in lathes, milling machines, grinders, chucks, collets and fixtures
- All arbors approximately 4" overall length



| | Generic USA | | Quality Import | |
|---|---|---|---|---|
| Max. Size (in.) | Order No. | Price | Order No. | Price |
| 1/4 | **NB80Z9110** | Price | **GX6010250** | Price |
| 3/8 | **NB80Z9111** | Price | **GX6010375** | Price |
| 1/2 | **NB80Z9112** | Price | **GX6010500** | Price |
| 5/8 | **NB80Z9113** | Price | **GX6010625** | Price |
| 3/4 | **NB80Z9114** | Price | **GX6010750** | Price |
| 7/8 | **NB80Z9115** | Price | **GX6010875** | Price |
| 1 | **NB80Z9116** | Price | **GX6011000** | Price |
| 1-1/4 | **NB80Z9117** | Price | **GX6011250** | Price |
| 1-1/2 | **NB80Z9118** | Price | **GX6011500** | Price |
| 1-3/4 | **NB80Z9119** | Price | **GX6011750** | Price |
| 2 | **NB80Z9120** | Price | **GX6012000** | Price |

## Complete Sets

| Pieces per Set | Size Range | Order No. | Price |
|---|---|---|---|
| 3 | 1-1/2 to 2 | **NB80Z9121** | Price |
| 8 | 1/4 to 1-1/4 | **GX601** | Price |
| 8 | 1/4 to 1-1/4 | **NB80Z9125** | Price |

## ROYAL PRODUCTS 5C Accu-Length™ Expanding Collets

**With Dead Length Operation**

- Precision ground body for maximum concentricity
- Concentricity of ±.0002" can be held
- Machinable head



| Nominal Head Dia. (in.) | Head Length (in.) | Machinable Range (in.) | Order No. | Price |
|---|---|---|---|---|
| 3/4 | 1 | 1/4 to 11/16 | **GP5520100** | Price |
| 1 | 1 | 7/16 to 15/16 | **GP5520101** | Price |
| 1-1/2 | 1 | 3/4 to 17/16 | **GP5520102** | Price |
| 1-1/2 | 1-1/2 | 3/4 to 17/16 | **GP5520103** | Price |
| 1-1/2 | 2 | 3/4 to 17/16 | **GP5520104** | Price |
| 2 | 1 | 3/4 to 1-15/16 | **GP5520107** | Price |
| 2 | 1-1/2 | 3/4 to 1-15/16 | **GP5520108** | Price |
| 2 | 2 | 3/4 to 1-15/16 | **GP5520109** | Price |
| 2-1/2 | 1 | 3/4 to 2-7/16 | **GP5520112** | Price |
| 3 | 1 | 3/4 to 2-15/16 | **GP5520117** | Price |

## WORLD CLASS QUALITY Expanding Mandrels

**Consists of tapered arbor and flexible expanding sleeve**

- Made of high grade tool steel
- Precision ground to assure maximum concentricity
- Sizes obtained by moving sleeve along arbor
- Mandrels are hardened and ground



| Size Range (in.) | Length of Arbor (in.) | Length of Sleeve (in.) | Sleeves Furnished | Order No. | Price |
|---|---|---|---|---|---|
| 1/2 to 9/16 | 5 | 2-1/2 | 1 | **GX51111** | Price |
| 9/16 to 21/32 | 6 | 2-3/4 | 1 | **GX51112** | Price |
| 21/32 to 3/4 | 7 | 2-3/4 | 1 | **GX51113** | Price |
| 3/4 to 7/8 | 7 | 3-1/4 | 1 | **GX51114** | Price |
| 7/8 to 1 | 7 | 3-1/2 | 1 | **GX51115** | Price |
| 1 to 1-1/4 | 9 | 4 | 2 | **GX51116** | Price |
| 1-1/4 to 1-1/2 | 9 | 4 | 2 | **GX51117** | Price |
| 1-1/2 to 2 | 11-1/2 | 5 | 2 | **GX51118** | Price |

## Expanding Mandrel Sets

| Size Range (in.) | Pieces per Set | Order No. | Price |
|---|---|---|---|
| 1 to 2 | 3 | **GX51121** | Price |
| 1/2 to 1 | 5 | **GX51120** | Price |
| 1/2 to 2 | 8 | **GX51119** | Price |

**Case Not Included**

## 5C Horizontal / Vertical Collet Fixture



- Hardened and ground spindle
- Two position heavy casting
- Collets are held dead length
- Quick-Acting lever type
- Base Width: 4-1/2”
- Base Length: 6”
- Overall Height: 4”

| Order No. | Price |
|---|---|
| JN6071103 | Price |

## Angle Collet Fixture

**Uses Standard 5C Collets**

**All moving parts hardened, ground and honed**



- Collet does not move up or down
- Retains positive relation to the base
- Can be adjusted or changed without disturbing your set-up
- For drilling, milling, grinding, tapping assembly, etc
- A must for every machine shop
- Height: 3-3/4”

| Order No. | Price |
|---|---|
| JN50MSR1 | Price |

## 5C Vertical Collet Vise



- Mounted on ground flat base for vertical use only
- Uses any standard 5C collet for a capacity up to 1-1/8”round
- Also accepts hex and square collets
- Height: 4-3/8”
- Small movement of lever opens and closes collet

| Order No. | Price |
|---|---|
| JN6071105 | Price |

## 5C Horizontal / Vertical Rapid Collet Indexer



- Fast and accurate indexing
- Accepts either standard 5C collets or a 5” chuck
- 4 positions provide for either 15, 30, 45, 60° divisions
- 5C Collets Not Included

| Order No. | Price |
|---|---|
| JN6071101 | Price |

## 5C Indexing Spin Jig

- A multi-purpose machine indexing fixture designed to extend work capabilities of surface grinders, drill presses and all types of milling machines
- Plate is graduated by degrees to 360°
- Vernier to 10 min. accuracy .0005 ground lapped; 2” travel for flute grinding
- Standard 5C collets
- Capacity 1-1/8”
- Simple 1° indexing
- Spindle lock
- Hardened and ground spindle
- Spindle lock hole for tightening collet
- Index plate has 36 hole circle



| Order No. | Price |
|---|---|
| MW50SJ5C | Price |

## Collet Holding Fixture For 5C Collets



- Collets held dead length
- Hardened and ground spindle two position — heavy casting
- Weight: 18 lbs.

MADE IN THE USA

| Order No. | Price |
|---|---|
| JM5010C | Price |

## 5C Positive Lock Collet Fixture



- Uses standard 5C collets
- With cam lock and a positive release
- Collet does not move up or down
- Retains positive relation to base
- Can be adjusted or changed without disturbing setup

| Order No. | Price |
|---|---|
| JN6071102 | Price |

## 5C Horizontal / Vertical Collet Vise



- Mounted on an angle plate
- Uses any standard 5C collet, for a capacity up to 1-1/8 round
- A small movement of the lever opens and closes the collet

| Order No. | Price |
|---|---|
| JN6071104 | Price |

## 5C Collet Horizontal/Vertical Indexing Fixture



- A rapid indexing fixture for use with both Collets (5C 1-1/8” capacity) and lathe chucks
- The latter may be fitted to the 2-1/4-8 threaded spindle
- Fixtures are designed to be mounted vertically or horizontally
- Indexing is accomplished by releasing the spring loaded index pin lever
- The spindle rotates freely until the next open space when the index pin engages again and locks the spindle
- Possible divisions are: 2, 3, 4, 6, 8, 12 and 24

**Dimensions:**

- Center Height: 4”
- Base: Horizontal 4” x 8”, Vertical 4” x 6”
- Overall Height: Horizontal 7-3/4”, Vertical 8”
- Shipping Weight: 30 lbs.

| Order No. | Price |
|---|---|
| JJ55004 | Price |

## Super Precision 5C Collet Chuck With Fine Adjustment



- For Mounting with Adapter Plates 0.0004" T.I.R.and 6000 RPM
- Used for turning, facing, boring, grinding and milling operations on center lathes and grinding machines
- The simple key operated scroll provides a uniform, distortion free clamping of the workpiece and low collet exchange time
- Four fine adjustment screws are used to set up the chuck on its mounting plate to get precision within .0004" T.I.R. on duplicate parts
- Body - made of high quality Forged Steel
- Forged Scroll – fully hardened and ground for longer life
- Pinions – hardened and ground. 5" Mounting plates (Adapters) A5, D3, D4, D5, Threaded 1" x 10 and 1-1/2" x 8 are available
- **Standard Accessories:** 1 Chuck wrench, 1 set of mounting bolts, 1 Allen Key
- **Uses Standard 5C Collets — Not Included**

| Chuck Size (in.) | 5C Collet Holding Cap. | Weight | Order No. | Price |
|---|---|---|---|---|
| 5 | 1/16 to 1-1/8 | 12 lbs | **HK308620505** | Price |

## 5C Collet Chuck



- .0008 T.I.R. & 6000 RPM
- Designed for use with 5C collets of all internal bore configurations
- Can be used for turning, facing, boring, grinding and milling operations on center lathes and grinding machines
- The simple key operated scroll makes for uniform, distortion free clamping of work-pieces as well as keeping the time required to change collets or work to a minimum
- Their simple design, rugged construction and fine workmanship assures high quality of chucks and long service life
- **Standard Accessories:** 1 Chuck wrench, 1 set of mounting bolts, 1 Allen key
- **Uses Standard 5C Collets — Not Included**

| Chuck Size (in.) | 5C Collet Holding Cap. | Weight | Order No. | Price |
|---|---|---|---|---|
| 5 | 1/16 to 1-1/8 | 10 lbs | **JJ558620501** | Price |

## Kalamazoo 5C Collet Chuck



- For short runs using a 5C Collet
- Lock and release at the front
- Heavy-duty
- All steel — hardened and ground
- Drilled and tapped holes at rear of collet chuck for mounting to a plate

| Dia. (in.) | Length (in.) | Weight | Order No. | Price |
|---|---|---|---|---|
| 3 | 4 | 6 lbs | **JM501CC** | Price |

## Kalamazoo Universal Indexer

### The Most Versatile Accessory for Your Shop



- Takes a 4" universal chuck — 3-jaw or 6-jaw or 5C collets
- Head can be angled from minus 0° to 100° plus
- Indexes quickly, easily — spindle locks in positive position
- Numerous combinations by changing ground indexing-spacer
- Can be dismantled in seconds for easy cleaning
- For drill presses, milling machines, grinders, layout work
- With 24 space ring less chuck

| Type | Weight | Order No. | Price |
|---|---|---|---|
| Draw-in Nut for 5C Collets for Universal Indexer | 1/4 lbs | **JM50AD5C** | Price |
| Index Ring, 20 space for Index Table | 1/4 lbs | **JM50AR20** | Price |
| Index Ring, 36 Space for Index Table | 1/4 lbs | **JM50AR36** | Price |
| Index Ring, Blank for Index Table | 1/4 lbs | **JM50AR0** | Price |
| Standard Tailstock for Index Table | 11 lbs | **JM50AT** | Price |
| Stub Arbor 1-10 Thread for Index Table | 1 lb | **JM50AS** | Price |
| Universal-Indexer (less chuck) with 24 Space Ring | 24 lbs | **JM50A1** | Price |

## Kalamazoo Index Fixture For 5C Collets



- For drilling, milling, grinding, and locating angles
- Index plate easily changed
- Precision ground spindle
- Plate can be bolted to top for drill bushing
- Use in vertical position with angle plate
- Rugged, quality built in Kalamazoo
- Model 5C complete with 24 space ring and 5C draw nut

| Type | Weight | Order No. | Price |
|---|---|---|---|
| Index Ring, 20 space for Index Table | 1/4 lbs | **JM50AR20** | Price |
| Index Ring, 36 Space for Index Table | 1/4 lbs | **JM50AR36** | Price |
| Index Ring, Blank for Index Table | 1/4 lbs | **JM50AR0** | Price |
| Lever Collet Closer for Index Table | 1 lb | **JM50LC** | Price |
| Stub Arbor 1-10 Thread for Index Table | 1 lb | **JM50AS** | Price |
| Standard Tailstock for Index Table | 11 lbs | **JM50AT** | Price |
| Index fixture with 24 space ring & Drawbar | 15 lbs | **JM505C** | Price |

## Kalamazoo Air Operated 5C Collet Holder



- Versatile
- Accurate
- Hardened and ground spindle
- Collets held dead length
- Two position
- For drill presses, milling machines and grinders
- Dimensions: 3-1/2" high, 4-3/4" diameter, 2-1/2" base to center line

| Type | Weight | Order No. | Price |
|---|---|---|---|
| 3 Way Lever Type Valve for 5C Collet Holder | 1 lb | **JM50125V** | Price |
| Air-Operated 5C Collet Holder | 7 lbs | **JM50A05C** | Price |
| Foot Operated Valve for 5C Collet Holder | 6 lbs | **JM50AR62** | Price |

## Air Collet Fixture





- Uses standard 5-C type collets up to 1-1/16" diameter to hold round, hexagonal and square workpieces
- Can also be used with step chuck collets and expanding chucks for internal gripping
- Double acting, piston type air cylinder develops holding power 18 times air line pressure
- Maximum operating pressure 150 psi
- Has 1-7/64" hole completely through unit for bar feeds or dropping finished parts
- Base of fixture is relieved for chip removal and coolant flow

| Description | Order No. | Price |
|---|---|---|
| 1-1/16" Capacity-Complete with 4-Way Foot Pedal (No. 45-12C1) & 3 Hoses (No. 34-14) | **JC501AC** | Price |
| Air Hose | **JC503414** | Price |
| Fixture Only | **JC501ACA** | Price |
| Foot Pedal | **JC504512C1** | Price |

## High Speed Production Air Vises



- Holding Power 15x air pressure (1500 lbs. at 100 psi)
- Hands-free operation of vise
- Pressure regulator may be controlled to suit operators, accommodate jig and fixture components
- Furnished with foot pedal valve, fittings and necessary hoses
- Hollow base for clear drilling
- Quick positioning of jaw at any point within jaw opening
- V-block attachment available

| Jaw Width (in.) | Jaw Opening (in.) | Jaw Depth of Bars (in.) | Shipping Weight | Order No. | Price |
|---|---|---|---|---|---|
| 3-1/8 | 3 | 1-1/4 | 20 lbs | **JC5033** | Price |
| 4-5/8 | 4 | 1-5/16 | 29 lbs | **JC5044** | Price |

## Harig "World Famous" Grind-All No. 1 Fixture

- Grinds various shaped punches up to 1-1/4" diameter
- Built for high precision work within ±.0001
- Radii generated with sliding V-block
- Multi-sides produced with 24 division index
- Constructed of hardened tool steel, with critical internal parts protected from grinding dust for long-lasting, accurate performance
- Complete with carrying case, work-holding V-block and 24 division indexing plate

**Specifications:**

- V-Block Capacity: 1-1/4"
- Center height: 3.00"
- Index divisions: 24
- Accuracy: +/- .0001"
- Graduation: 360º
- Net weight: 12 lbs.



| Order No. | Price |
|---|---|
| NJ60010100 | Price |

## Optional Accessories For Harig Grind-All No. 1 Fixture

| Item | Type | Order No. | Price |
|---|---|---|---|
|  | Grind-All Fixture 4 x 6 Sine Accessory | NJ60055100 | Price |
|  | Grind-All Fixture 6" Hardened Face Plate | NJ601090 | Price |
|  | Grind-All Fixture Base Plate & Tailstock | NJ60015100 | Price |
|  | Grind-All Fixture Magnetic Chuck Accessory | NJ601040 | Price |
|  | Grind-All Fixture Radius Dresser Arm | NJ601052 | Price |

## Suburban Master Grind™

- Twin-Dex combination 5C collet and V-block in one fixture
- Horizontal or vertical V-block mounting
- 72-Position index plate for hard index every five degrees ±15 arc seconds
- Two heavy duty 4" diameter tapered roller bearings in spindle
- Extra large 1-5/8" V-block capacity
- Built-in sine bar for setting angles between hard index locations
- Square and parallel within .0002"
- Maximum spindle runout .00005"
- Sine set compatible
- Fitted wooden case included
- Model MG5CVS1WBTS Master Grind, fitted base and tailstock complete



| Base | Collet Style | Center Height (in.) | Overall Height (in.) | Thru Hole (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 4 x 5 | 5C | 3 | 5-1/2 | 1-1/4 | 54 lbs | NJ50MG5CVS1WBTS | Price |
| 4 x 5 | 5C | 3 | 5-1/2 | 1-1/4 | 32 lbs | NJ50MG5CVS1 | Price |

## Suburban Accessories for Master-Grind

**Motor Drive Kit:**

- 1/15 HP, reversible, variable speed, 60 to 300 RPM
- Includes mounting bracket, motor pulley, drive belt and screws
- Easy one-minute installation
- Motor mounts on either side of Master-Grind

**Base Plate and Tailstock:**

- Tailstock has 1/2" diameter x 60° spring-loaded center with locking screw
- Includes 1/2" 5C collet and steel 60° headstock center
- Base plate and edge guide are hardened and ground
- †NOTE: Factory fitting of Order No. MV5CVS1 to base plate and tailstock is required. This is included at no charge even when the base plate and tailstock is purchased separately from the index fixture.

**Sine Plate or Compound Sine Plate:**

- Attaches directly to Master-Grind with 2 screws, no clamps required
- Precision ground flat, square and parallel within .0002"
- .200" Minute steps on gage roll for setting small angles
- Made of steel hardened to RC58-62
- Two self-storing rails and one locking strap included
- See NJ50SP66S1 To Order the Sine Plate for Master-Grind
- See NJ50SPC66S1 to order the Compound Sine Plate for Master-Grind





| Description | Weight | Order No. | Price |
|---|---|---|---|
| Base Plate and Tailstock for Master Grind | 22 lbs | NJ50MG5BTS† | Price |
| Motor Drive Kit for Master Grind | 5 lbs | NJ50MG5MD | Price |

## Suburban Collet Master

- Uses all standard 5C Collets
- 48 position index plate provides a hard stop every 7-1/2°
- Drawbar and fitted wooden case included
- Two sealed, preloaded ball bearings in spindle
- Hardened and ground base is held square and parallel to spindle.
- 1-1/8" Through hole
- Optional face plate and V-block for eccentric forms available
- Indexing accuracy ± 45 sec.



| Base Size (in.) | Center Height (in.) | Overall Height | Spindle TIR | Order No. | Price |
|---|---|---|---|---|---|
| 3-3/4 x 3-1/2 | 3-5/8 | 5-1/2 | .0001 | NJ50CM5C | Price |

## Face Plate & V-Block Accessory for Collet Master

- Case included

| Description | Order No. | Price |
|---|---|---|
| Face Plate and V-block accessory with case | NJ50CM5CFPVB | Price |

## Suburban Mini-Master All Purpose Index Fixture

- 3" Height is ideal for small machine setups
- Weight only 4 pounds for easy handling
- 72-Position index plate allows an index every 5°
- 5/8" Through hole in spindle
- Uses standard ER-25 spring collets
- Spindle runs in two sealed preloaded bearings
- Maximum spindle runout .0002"
- Spindle can be secured by stop button for easy tightening of collets
- Hardened steel base plate is ground square and parallel with spindle axis within 0.0002"
- Fitted wooden case and collet wrench included



| Order No. | Price |
|---|---|
| NJ50MM25R | Price |

## Harig Lectric-Centers Motorized Cylindrical Grinding Fixture

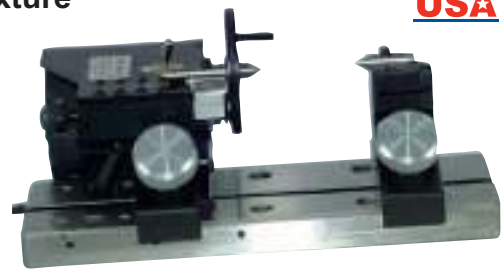
MADE IN THE USA

### For external grinding on a surface grinder

- Quickly converts a surface grinder for cylindrical grinding applications and can also be used for critical inspection.
- The Dead Center design permits extremely close accuracies down to 50 millionths and less to be easily obtained
- Can be mounted directly on magnetic chuck or onto the optional 4" x 6" sine plate (Order No. NJ60-055100)
- Completely motorized for ease of stock removal
- Complete with diamond holder for wheel dressing, interchangeable male and female centers, adjustable headstock & tailstock and carrying case

**Specifications:**

- Swing: 6"
- Center distance: 7"
- Center height: 3"
- Accuracy: 0.000050 TIR
- Motor: 115Volt/1 Phase
- Speeds: 180 & 360 RPM
- Net weight: 20 lbs.



| Order No. | Price |
|---|---|
| **NJ60025100** | Price |

## Harig Uni-Dex Ultra Precise Collet Fixture

- Hardened and ground throughout, its integral preloaded ball and race bearing, and 24 division index arrangement delivers extreme positioning accuracy and precision
- Magnetic chuck, face plate and 3-jaw chuck accessories
- Comes with carrying case

**Specifications:**

- Runout with 5-C collet - 0.000050
- Index accuracy: ±10 seconds
- Center height: 3"
- Thru hole: 1-1/4"
- Index divisions: 24
- Collet type: 5C & 5ST
- 3-Jaw chuck hole: 3/4"
- Weight: 10-1/2 lbs.

MADE IN THE USA



| Order No. | Price |
|---|---|
| **NJ60070100** | Price |

## Harig Spin-Indexers

MADE IN THE USA

- Sturdy and dimensionally stable cast iron housing
- Large preloaded ball bearings are durable and accurate — ideal for motorization
- 5C collet holder ground in assembly to under 0.00001" runout
- 24 Division index plate with precision index pins locks in every 15° to +/- 30 seconds
- Draw sleeve for quick set-ups of collets and accessories
- Extended base for minimal deflection even with heavier parts
- 1/4" Diameter mounting hole on top of housing for diamond dresser



**Specifications:**

- Collet - 5C up to 1"
- Center height - 4-1/8"
- 24 division indexing - +/- 30 seconds
- Spindle runout - 0.00001"
- Spindle parallel to base - 0.0002 in 6"
- Motor - 1/15HP 110V AC
- Variable speed - 50-450 RPM
- Weight: 17 lbs.

| Type | Order No. | Price |
|---|---|---|
| Manual Spin Indexer | **NJ60122100** | Price |
| Motorized Spin Indexer | **NJ60120100** | Price |

## World Class Quality End Mill Grinding Fixture

**Features:**

- Uses 5C Collets (no more bushings to lose) which means any shank size end mill from 1/16" to 1-1/8" can be ground
- Shell mills can be easily held with straight shank arbors
- The use of 5C Collets assures concentricity
- Solid positive ball stops with 15° spacing fast and easy set ups
- Grinds 2-3-4-6-8 and 12-fluted end mills and shellmills. Faces only!
- Clearance and relief angles are built into base
- Solid 2-1/2" x 4-1/2". Base ground on bottom for sure contact with magnet
- Black oxide finish



| Order No. | Price |
|---|---|
| **HN50RGF** | Price |

## National End Mill Cutter Sharpener

- Sharpens saws, end mills, inserted blade cutters, etc
- Sharpens all end mills up to 2-1/2" Diameter; 1-1/4" Shank
  Rigid finger holder and bar for best precision finish
- Micrometer Dial for setting adjusting finger for cutting edge clearance
- Rocker Arm enables fast indexing and brings cutter to wheel

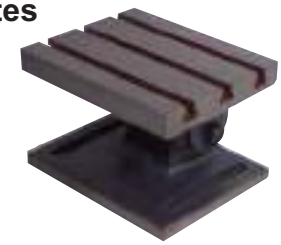


- Accepts cutters with diameters up to 12" and larger with use of riser blocks
- Spindle Bearings require no air, hydraulic or delicate adjustments
- Includes 2 spindles and 4 bushings to cover full range from 3/16" to 1-1/4" shank end mills
- Base size: 7-1/16" x 3-15/16"
- Weight: 35 lbs.

| Order No. | Price |
|---|---|
| **MW51550002** | Price |

## Swivel Angle Plates

- Cast iron heavy duty construction
- Ground table surface
- 0-90° range
- Machined T-slots
- Precision made



| Table Size (in.) | Overall Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|
| 10 x 12 | 8 | 112 lbs | **JJ60SAP1012** | Price |

## Adjustable Angle Plates - Tilting Tables

- Heavy and sturdy construction
- 0-90° Range (45° each way)
- Graduated in degrees
- Table surface is ground
- Machined T-slots



| Table Size (in.) | Overall Height (in.) | Weight | Order No. | Price |
|---|---|---|---|---|
| 5 x 7 | 3-3/4 | 21 lbs | **JJ60AAP57** | Price |
| 7 x 10 | 5 | 45 lbs | **JJ60AAP710** | Price |
| 10 x 15 | 6-1/2 | 93 lbs | **JJ60AAP1015** | Price |

## Horizontal/Vertical Rotary Tables

**Specifications: (Note: Max. Variation is inches per second)**

- Clamping surface flatness (concave); .0006”
- Cylindrical center bore concentricity; .0008”
- Taper center bore concentricity; .0008”
- Surface to base parallelism; .0008”
- Surface to angle face squareness; .0004”
- Surface to center slot squareness; .0008”

**Accuracy:**

- 6” & 8” Tables; 1 min., 20 sec.
- 10”, 12”, & 14” Tables; 45 sec.



| Size (in.) | Horiz. Height (in.) | Vert. Height (in.) | Center Height (in.) | No. T-Slots | Center Hole | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 6 | 3.26 | 7.87 | 3.94 | 4 | 2MT | 26.5 lbs | **JJ40HV6** | Price |
| 8 | 4.13 | 10.43 | 5.31 | 4 | 3MT | 66 lbs | **JJ40HV8** | Price |
| 10 | 4.33 | 12.80 | 6.50 | 6 | 3MT | 99 lbs | **JJ40HV10** | Price |
| 12 | 5.04 | 15.38 | 7.68 | 6 | 4MT | 182.6 lbs | **JJ40HV12** | Price |
| 14 | 5.04 | 17.72 | 9.06 | 6 | 4MT | 209 lbs | **JJ40HV14** | Price |

## Horizontal/Vertical Precision Rotary Tables

- Works as an index center in the vertical position as well as a conventional rotary table for circular cutting, angle setting, boring and spot facing
- 10-Second Vernier reading
- Disengageable worm gear permits rapid rotation
- Worm gear is hardened and ground
- Optional dividing plates and crank handle can be attached to the rotary table drive mechanism
- One rotation of handle equals 4”
- Made of Meehanite
- The base of the body, table surface and rotating parts are ground finished, permitting very smooth rotation

**Specifications: (Note: Max. Variation is inches per second)**

- Clamping surface flatness (concave); .0006”
- Cylindrical center bore concentricity; .0008”
- Taper center bore concentricity; .0008”
- Surface to base parallelism; .0008”
- Surface to angle face squareness; .0004”
- Surface to center slot squareness; .0008”

**Accuracy:**

- 4”, 6”, & 8” Tables; 1 min., 20 sec.
- 10”, 12”, 14”, & 16” Tables; 45 sec.
- 20” Tables; 40 sec.



| Size (in.) | Horiz. Height (in.) | Vert. Height (in.) | Center Height (in.) | No. T-Slots | Center Hole | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 4 | 2.80 | 5.70 | 3.30 | 3 | 2MT | 17 lbs | **JJ55LG4** | Price |
| 6 | 3.10 | 7.80 | 3.90 | 3 | 2MT | 29 lbs | **JJ55LG6** | Price |
| 8 | 4.10 | 10.40 | 5.30 | 3 | 3MT | 66 lbs | **JJ55LG8** | Price |
| 10 | 4.50 | 12.80 | 6.50 | 6 | 3MT | 103 lbs | **JJ55LG10** | Price |
| 12 | 5.30 | 15.30 | 7.70 | 6 | 4MT | 173 lbs | **JJ55LG12** | Price |
| 14 | 5.50 | 17.72 | 9.10 | 6 | 4MT | 233 lbs | **JJ55LG14** | Price |

## Horizontal/Vertical Simple Indexing Spacers

- The center hole is big to be suitable for large or long workpiece
- The simple spacer has a hardened and ground master plate that can index the special angle of 15°
- The simple spacer index includes a 3-jaw chuck, masking plates 2, 3, 4, 6, 8 and 12



| Size (in.) | Weight | Order No. | Price |
|---|---|---|---|
| 6 | 65 lbs | **JJ55CC6** | Price |
| 8 | 114 lbs | **JJ55CC8** | Price |

## Replacement Chucks for Vertex Spacers

**Supplied with:**

- Master jaw and top jaws
- T-Wrench
- Mounting screws



| Model No. | Chuck Size (in.) | Hole Size (in.) | Description | Order No. | Price |
|---|---|---|---|---|---|
| F3063R | 6 | 1.575 | Semi Steel Body | **HK15F3063R** | Price |
| F3083R | 8 | 2.165 | Semi Steel Body | **HK15F3083R** | Price |
| SF3063R | 6 | 1.575 | Steel Body | **HK15SF3063R** | Price |
| SF3083R | 8 | 2.165 | Steel Body | **HK15SF3083R** | Price |

## Simple & Super Indexing Spacers





- 24 Position master plate
- 360° Graduated ring
- Graduated ring with five minute vernier reading
- Worm gear reduction ratio is 1:90

**Super Standard Accessories:**

- 3-Jaw chuck
- Six masking plates (2, 3, 4, 6, 8, & 12 position)
- T-slotted face plate (8" or 10")

**Simple Standard Accessories:**

- 3-Jaw chuck
- Six masking plates (2, 3, 4, 6, 8, & 12 position)

| | Simple Spacer | | Super Spacer | |
|---|---|---|---|---|
| Size (in.) | Order No. | Price | Order No. | Price |
| 6 | **JJ40CC6** | Price | **JJ40CS6** | Price |
| 8 | **JJ40CC8** | Price | **JJ40CS8** | Price |

## Horizontal/Vertical Super Indexing Spacers



- Combines the advantages of the Simple Index with those of a worm-geared index
- Can carryout single-purpose indexing and indirect indexing using the worm-drive mechanism when mounted on a milling, boring or machine tool
- Disengaging the worm drive, the 24-notch master plate permits 2, 3, 4, 6, 8, 12 and 24 dividing in the same manner as the Simple Index
- When the chuck is removed the unit can be used as a horizontal and vertical type rotary table
- Operating handle to rotary table worm gear reduction ratio is 1:90
- Operating handle collar is graduated in one minute, and readings down to ten seconds can be set on the Vernier
- CS6 complete with 6" 3-jaw chuck; 2-pc. hardened and reversible jaw; 8" face flate and 6 masking plates
- CS8 complete with 8' 3-jaw chuck; 2-pc. hardened and reversible jaw; 10" face flate and 6 masking plates

| Size (in.) | Weight | Order No. | Price |
|---|---|---|---|
| 6 | 106 lbs | **JJ55CS6** | Price |
| 8 | 167 lbs | **JJ55CS8** | Price |

## Horizontal/Vertical Super Spacers

### With 6", 8" or 12" Precision Steel Body 3-Jaw Chuck



- Catch device allows you to perform basic indexing in divisions of 2, 3, 4, 6, 8, 12 & 24 without changing masking plates
- Designed for milling, drilling, jig boring and related machining operations
- Simple and compact construction provides for 2 types of dividing
- Angular indexing can be performed through the graduation ring from 0° to 360° in increments of 1°

**Specifications:**

- Indexing Accuracy - 2'
- Squareness (Base to Chuck) - .0008" Max.
- Parallelism Over Face - .0008" Max.
- Concentricity of Chuck - .0015 Tir.

| Size (in.) | Hole Size (in.) | Order No. | Price |
|---|---|---|---|
| 6 | 1.6 | **JJ45609006** | Price |
| 8 | 2.1 | **JJ45609008** | Price |
| 12 | 4 | **JJ45609012** | Price |

## Optional Dividing Plates

- For CS-6 and CS-8 Super Spacer
- For LG-10 thru LG-14 Rotary Tables



| For Use with Table Sizes (in.) | Order No. | Price |
|---|---|---|
| CS 6 & CS 8 | **JJ55DP6** | Price |
| LG 10, 12, & 14 | **JJ55DP10** | Price |

## Adjustable Tailstocks

- Adjustable height and angle of inclination for rotary tables and spacers



| Spacer (in.) | Rotary Tables (in.) | Max. Height (in.) | Min. Height (in.) | Order No. | Price |
|---|---|---|---|---|---|
| N/A | 4 & 6 | 4.3 | 2.95 | **JJ55TS1** | Price |
| 6 | 8 | 5.7 | 4.5 | **JJ55TS2** | Price |
| 8 | 10 & 12 | 7.8 | 5.1 | **JJ55TS3** | Price |
| 12 | 14 | 10.2 | 7.5 | **JJ55TS4** | Price |

## Tailstocks & Dividing Plates

- **Note:** 14” Rotary table uses JJ40EDP2 Dividing Plates





| | | | | Dividing Plate | | Tail Stock | |
|---|---|---|---|---|---|---|---|
| For Super Spacers (in.) | For Rotary Tables (in.) | Max. Height (in.) | Min. Height (in.) | Order No. | Price | Order No. | Price |
| 6 | 6 | 5.15 | 3.18 | **JJ40EDP1** | Price | **JJ40ETS1** | Price |
| 8 | 8, 10, 12 | 8.26 | 5.12 | **JJ40EDP2** | Price | **JJ40ETS2** | Price |
| N/A | 14 | 11.81 | 8.27 | **-** | - | **JJ40ETS3** | Price |

## VERTEX Dividing Heads Semi Universal

### Semi-Universal Index • B&S Type • Head Stock

- Can be used for direct and indirect indexing
- Differential indexing from 2-50 division and certain numbers up to 380 are possible
- Includes head, plates and tailstock



| OAL (in.) | Width (in.) | Height (in.) | Tailstock Center Ht. (in.) | Center Hole | Spindle Thread | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 7-7/16 | 5-23/64 | 6-13/16 | 3-15/16 | MT2 | 1-1/2-8 | 43 lbs | **JJ55BS0** | Price |
| 11-17/32 | 6-9/64 | 8-21/32 | 5-3/64 | MT3 | 1-1/2-8 | 71 lbs | **JJ55BS1** | Price |

## VERTEX Universal Indexing Center

- Head tilts from horizontal to 10° past vertical
- Position is read from a scale graduated in degrees
- Ratio of the indexing lever to the head is 40;1 or 9° per turn of the handle
- Includes dividing head, tailstock, change gears, spindle, dividing plates, flange, brackets and instruction manual



| OAL (in.) | Height (in.) | Hole Size (in.) | Tailstock Center Ht. (in.) | Spindle Thread | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 14-13/32 | 9-13/64 | 5/8 | 5-9/32 | 2-1/4-8 | 160 lbs | **JJ55BS2** | Price |

## DORIAN TOOL 90° Angle Heads

- Fixed 90° angle head with 0-360° circular rotation
- Interchangeable spindle taper holder for CAT, ISO & BT spindles
- ER16 system designed for precision machining for small to medium tool applications
- ER25 & ER32 system designed to perform any CNC medium duty operations
- AAH-TP40 is designed to perform any CNC heavy duty operations



CAT50






CAT40



| Taper - CAT40 | | | | | |
|---|---|---|---|---|---|
| Model No. | Max. Torque | Max. RPM | Tool Holding | Order No. | Price |
| 90CNC-AAH-ER16-CAT40 | 5 lb. ft. | 0-4000 RPM | ER16 | **GG3545968** | Price |
| 90CNC-AAH-ER25-CAT40 | 15 lb. ft. | 0-3500 RPM | ER25 | **GG3545977** | Price |
| 90CNC-AAH-ER32-CAT40 | 30 lb. ft. | 0-3500 RPM | ER32 | **GG3545986** | Price |
| 90CNC-AAH-TP40-CAT40 | 29.5 lb. ft. | 0-2000 RPM | CAT40 | **GG3545936** | Price |

| Taper - CAT50 | | | | | |
|---|---|---|---|---|---|
| Model No. | Max. Torque | Max. RPM | Tool Holding | Order No. | Price |
| 90CNC-AAH-ER16-CAT50 | 5 lb. ft. | 0-4000 RPM | ER16 | **GG3545972** | Price |
| 90CNC-AAH-ER25-CAT50 | 15 lb. ft. | 0-3500 RPM | ER25 | **GG3545981** | Price |
| 90CNC-AAH-ER32-CAT50 | 30 lb. ft. | 0-3500 RPM | ER32 | **GG3545990** | Price |
| 90CNC-AAH-TP40-CAT50 | 30 lb. ft. | 0-2000 RPM | CAT40 | **GG3545996** | Price |

## Universal CNC Adjustable Angle Heads

- Capable of machining in two axial positioning angles
- ER25 is designed to perform any CNC medium duty operations
- ER32 is designed to perform any CNC heavy duty operations
- Interchangeable spindle taper holder for CAT, ISO & BT Spindles



| Taper - CAT40 | | | | |
|---|---|---|---|---|
| Model No. | Max. RPM | Tool Holding | Order No. | Price |
| PLCNC-AAH-ER25-CAT40 | 0-4000 RPM | ER25 | **GG3545953** | Price |
| PLCNC-AAH-ER32-CAT40 | 0-3500 RPM | ER32 | **GG3545943** | Price |

| Taper - CAT50 | | | | |
|---|---|---|---|---|
| Model No. | Max. RPM | Tool Holding | Order No. | Price |
| PLCNC-AAH-ER25-CAT50 | 0-4000 RPM | ER25 | **GG3545957** | Price |
| PLCNC-AAH-ER32-CAT50 | 0-3500 RPM | ER32 | **GG3545963** | Price |

## Quik-Set Z300 Presetter

- Economical
- Excellent quality
- Reduces tooling-up time
- Battery operated
- Large display numbers
- Preset tool diameters and lengths
- Supplied with CAT40 tool sleeve




| Model No. | Power Input | Measuring Method | Height Capacity | Accuracy | Dia. Capacity | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| Quik-Set-Z300 | 3 AA Batteries | Contact Probe | 11.8 | +/- .0005 | 9.8 | 67 lbs | **GG3542001** | Price |
| Quik-Set-Z400 | 4 AA Batteries | Contact Probe | 15.75 | +/- .0005 | 9.8 | 120 lbs | **FL3342030** | Price |
| Quik-Set-Z600 | 6 AA Batteries | Contact Probe | 23.6 | +/- .0005 | 23.6 | 150 lbs | **FL3342034** | Price |
| Quik-Set-XM | 5 AA Batteries | Contact Probe | 11.8 | +/- .0005 | 15.75 | 120 lbs | **FL3342032** | Price |

## Hand Tappers

Assures straight perpendicular tapped holes.










| Model Number | Brand Name | Table Size (WxL) (in.) | Clearance Height (in.) | Depth of Throat (in.) | Tap Cap. (adapters) | Weight (lbs.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 790 Mini Tapper | Cedarberg | 6 x 8-1/2 | 3-3/4 | 4-1/2 | #0 - 5/16 (7) | 12 | **EV55790** | Price |
| 780 E-Z Tapper | Cedarberg | 8 x 13 | 7 | 7-1/2 | #8 - 3/4 (9) | 35 | **EV55780** | Price |
| CHT | Quality Import | 6-1/2 x 12-1/2 | 7-7/8 | 7-1/2 | #6 - 5/8 (9) | 50 | **EV56CHT** | Price |

## GTI ER Tapping Attachments

**Application:**
- Axial-float/tension/compression type for CNC milling machines and lathes with reversing motors and rigid tapping

**Features:**
- Compensates for machine feed and tap pitch variance
- Floating mechanism compensates for misalignment between tap and workpiece
- Right and left hand tapping
- Practical and efficient tap holding by the ER spring collet without using jaw drive
- Compact design for minimal clearance applications
- Heavy-duty design for high torque drive ensures the same accuracy as the tap itself



| Type - GTI ER Integral Shank Tapping Attachment | | | | | | |
|---|---|---|---|---|---|---|
| Model No. | Shank Size (in.) | Collet Style/ Fits | Tap Range (Fractional) (in.) | Tap Range (mm) | Order No. | Price |
| 4500066 | CAT40 | ER16 | #6 to 3/8 | M3 to M10 | **GM702300046** | Price |
| 4500068 | CAT40 | ER32 | 1/4 to 3/4 | M3 to M10 | **GM702300047** | Price |
| 4500071 | CAT50 | ER32 | 1/4 to 3/4 | M3 to M10 | **GM702300050** | Price |
| 4500072 | CAT50 | ER40 | 5/16 to 1-1/8 | M6 to M28 | **GM702300051** | Price |

| Type - GTI ER Tapping Attachment | | | | | |
|---|---|---|---|---|---|
| Model No. | Shank Size (in.) | Collet Style/ Fits | Tap Range (Fractional) (in.) | Order No. | Price |
| 4548089 | 5/8 | ER11 | #3 to 1/4 | **GM702300003** | Price |
| 4539028 | 3/4 | ER16 | #6 to 3/8 | **GM702300011** | Price |
| 4539025 | 3/4 | ER20 | #8 to 1/2 | **GM702300013** | Price |
| 4539027 | 1 | ER25 | #10 to 5/8 | **GM702300015** | Price |
| 4500060 | 1 | ER32 | 1/4 to 3/4 | **GM702300017** | Price |
| 4500061 | 1-1/4 | ER40 | 5/16 to 1-1/8 | **GM702300019** | Price |

## TAPMATIC RX Series Tapping Heads

### Self-Reversing Tapping Heads For Drill Presses & Milling Machines

- Pre-selective torque drive prevents tap breakage
- Heavy duty ball clutch
- Accurate depth control
- Re-entry cushion eliminates cross threading
- Higher production rates
- Longer tap life
- For right hand tapping only



| Model No. | Collet Style | Mount | Capacity (in.) | Self Feed | Max. RPM | Order No. | Price |
|---|---|---|---|---|---|---|---|
| RX30 | 21700 | 33JT | 0 - 1/4" (M1.4 - M6) | Min. .156 Max. .312 | 2000 | **GJ50013033** | Price |
| RX30 | 21600 | 6JT | 0 - 1/4" (M1.4 - M6) | Min. .156 Max. .312 | 2000 | **GJ50013006** | Price |
| RX50 | 22200 | 33JT | #6 - 1/2" (M3 - M12) Pipe 1/16, 1/8 | Min. .250 Max. .437 | 1500 | **GJ50015033** | Price |
| RX50 | 22100 | 6JT | #6 - 1/2" (M3 - M12) Pipe 1/16, 1/8 | Min. .250 Max. .437 | 1500 | **GJ50015006** | Price |
| RX70 | 24100 | 3JT | #10 - 3/4" (M5 - M16) | Max. .562 | 1200 | **GJ50017003** | Price |

**Reduce capacity 25% for roll form taps. Please order rubber-flex collets and arbors separately.**

## Rubber Flex Collets

### Used for X, TC/DC-R, SPD & NSM Tapping Heads



| | | | | Jacobs | | Tapmatic | |
|---|---|---|---|---|---|---|---|
| Model No. | Tap Size (in.) | Tap Range (in.) | Shank Size (in.) | Order No. | Price | Order No. | Price |
| J116 | #0 - 1/4 Capacity | #0 - 8 Standard | .098 - .177 | **HK509757** | Price | **GJ5021600** | Price |
| J117 | #0 - 1/4 Capacity | #10 - 1/4 Standard | .177 - .256 | **HK509758** | Price | **GJ5021700** | Price |
| J420 | #6 - 1/2 Capacity | N/A | .194 - .318 | **HK509747** | Price | **GJ5022000** | Price |
| J421 | #6 - 1/2 Capacity | #0 - 1/4 Standard | .139 - .257 | **HK509748** | Price | **GJ5022100** | Price |
| J422 | #6 - 1/2 Capacity | 1/4 - 1/2 Standard | .253 - .383 | **HK509751** | Price | **GJ5022200** | Price |
| J423 | #6 - 1/2 Capacity | N/A | .090 - .180 | **HK509817** | Price | **GJ5022300** | Price |
| J440 | #10 - 3/4 Capacity | 5/16 - 5/8 | .280 - .500 | **HK509749** | Price | **GJ5024000** | Price |
| J441 | #10 - 3/4 Capacity | #10 - 1/2 Standard | .176 - .383 | **HK509750** | Price | **GJ5024100** | Price |
| J443 | #10 - 3/4 Capacity | N/A | .110 - .280 | **HK509867** | Price | **GJ5024300** | Price |
| J445 | #10 - 3/4 Capacity | N/A | .393 - .590 | **HK50J445** | Price | **GJ5024500** | Price |
| J461 | 1/2 - 1-1/8 Capacity | 1/2 - 3/4 | .360 - .630 | **HK50J461** | Price | **GJ5026100** | Price |
| J462 | 1/2 - 1-1/8 Capacity | 7/8 - 1-1/8 | .630 - .900 | **HK50J462** | Price | **GJ5026200** | Price |

## High Speed Tappers

### Style E & F

- Balanced, heat-treated gear reversing mechanism minimizes strain and wear.
- Reverses at twice forward speed to increase productivity and avoid tap jamming.
- Extremely sensitive friction clutch engages conical surfaces of drive and reverse shells with smooth, "cushioned" action, allowing sensitive operator "feel"
- Assure automatic tap protection
- One-piece TRU-GRIP spindle assures true alignment
- Can be modified to be used in horizontal position
- Factory can easily alter any model for left-hand tapping
- **Collets not included—order separately below**




| Style | Shank Size (in.) | Cap. Soft Material (in./mm, pipe) | Cap. Steel (in./mm) | Max. RPM | Order No. | Price |
|---|---|---|---|---|---|---|
| 1E | 1/2 Straight | 0-1/4, M2-M6 | 0-#10, M2-M4 | 3000 | **GH5011006** | Price |
| 1E | 1MT | 0-1/4, M2-M6 | 0-#10, M2-M4 | 3000 | **GH5011001** | Price |
| 1E | 2MT | 0-1/4, M2-M6 | 0-#10, M2-M4 | 3000 | **GH5011002** | Price |
| 1E | 3MT | 0-1/4, M2-M6 | 0-#10, M2-M4 | 3000 | **GH5011003** | Price |
| 2E | 1/2 Straight | #6 - 1/2, M4-M12, 1/8 Pipe | #6 - 5/16, M4-M8 | 2000 | **GH5012006** | Price |
| 2E | 1MT | #6 - 1/2, M4-M12, 1/8 Pipe | #6 - 5/16, M4-M8 | 2000 | **GH5012001** | Price |
| 2E | 2MT | #6 - 1/2, M4-M12, 1/8 Pipe | #6 - 5/16, M4-M8 | 2000 | **GH5012002** | Price |
| 2E | 3MT | #6 - 1/2, M4-M12, 1/8 Pipe | #6 - 5/16, M4-M8 | 2000 | **GH5012003** | Price |
| 3E | 3/4 Straight | #10-3/4, M6-M18, 1/4 Pipe | #10 - 1/2, M6-M12 | 1000 | **GH5013006** | Price |
| 3E | 2MT | #10-3/4, M6-M18, 1/4 Pipe | #10 - 1/2, M6-M12 | 1000 | **GH5013002** | Price |
| 3E | 3MT | #10-3/4, M6-M18, 1/4 Pipe | #10 - 1/2, M6-M12 | 1000 | **GH5013003** | Price |
| 3E | 4MT | #1-3/4, M6-M18, 1/4 Pipe | #10 - 1/2, M6-M12 | 1000 | **GH5013004** | Price |
| 4F | 3/4 Straight | 1/4 - 1-1/8, M7-M28, 1/8-3/4 Pipe | 1/4 - 1, M7-M22 | 800 | **GH5014006** | Price |
| 4F | 2MT | 1/4 - 1-1/8, M7-M28, 1/8-3/4 Pipe | 1/4 - 1, M7-M22 | 800 | **GH5014002** | Price |
| 4F | 3MT | 1/4 - 1-1/8, M7-M28, 1/8-3/4 Pipe | 1/4 - 1, M7-M22 | 800 | **GH5014003** | Price |
| 4F | 4MT | 1/4 - 1-1/8, M7-M28, 1/8-3/4 Pipe | 1/4 - 1, M7-M22 | 800 | **GH5014004** | Price |
| 4F | 5MT | 1/4 - 1-1/8, M7-M28, 1/8-3/4 Pipe | 1/4 - 1, M7-M22 | 800 | **GH5014005** | Price |

## "Tru-Grip" Tap Collets

MADE IN THE USA



For Style "E & F" Tappers

| Type - Pipe Tap | | | | |
|---|---|---|---|---|
| | 3E | | 4F | |
| Tap Size (in.) | Order No. | Price | Order No. | Price |
| 1/8 | **GH5053865** | Price | **GH5054865** | Price |
| 1/4 | **GH5053876** | Price | **GH5054876** | Price |
| 3/8 | **-** | - | **GH5054887** | Price |
| 1/2 | **-** | - | **GH5054885** | Price |
| 3/4 | **-** | - | **GH5054899** | Price |

| Type - SS Pipe Tap | | | | | | |
|---|---|---|---|---|---|---|
| | 2E | | 3E | | 4F | |
| Tap Size (in.) | Order No. | Price | Order No. | Price | Order No. | Price |
| 1/8 SS Pipe | **GH5052845** | Price | **GH5053845** | Price | **GH5054845** | Price |
| 3/8 SS Pipe | **GH5052839** | Price | **GH5053839** | Price | **GH5054839** | Price |

| Type - Tru-Tap | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0E | | 1E | | 2E | | 3E | | 4F | |
| Tap Size (in.) | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| #6 | **GH5050811** | Price | **GH5051811** | Price | **GH5052811** | Price | **-** | - | **-** | - |
| #8 | **GH5050818** | Price | **GH5051818** | Price | **GH5052818** | Price | **GH5053818** | Price | **-** | - |
| #10 | **GH5050824** | Price | **GH5051824** | Price | **GH5052824** | Price | **GH5053824** | Price | **-** | - |
| #12 | **GH5050829** | Price | **GH5051829** | Price | **GH5052829** | Price | **GH5053829** | Price | **-** | - |
| #14 | **GH5050835** | Price | **GH5051835** | Price | **GH5052835** | Price | **GH5053835** | Price | **-** | - |
| 1/4 | **GH5050838** | Price | **GH5051838** | Price | **GH5052838** | Price | **GH5053838** | Price | **GH5054838** | Price |
| 9/32 | **-** | - | **-** | - | **GH5052843** | Price | **GH5053843** | Price | **GH5054843** | Price |
| 5/16 | **-** | - | **-** | - | **GH5052848** | Price | **GH5053848** | Price | **GH5054848** | Price |
| 3/8 | **-** | - | **-** | - | **GH5052859** | Price | **GH5053859** | Price | **GH5054859** | Price |
| 7/16 | **-** | - | **-** | - | **GH5052849** | Price | **GH5053849** | Price | **GH5054849** | Price |
| 1/2 | **-** | - | **-** | - | **GH5052856** | Price | **GH5053856** | Price | **GH5054856** | Price |
| 9/16 | **-** | - | **-** | - | **-** | - | **GH5053863** | Price | **GH5054863** | Price |
| 5/8 | **-** | - | **-** | - | **-** | - | **GH5053869** | Price | **GH5054869** | Price |
| 11/16 | **-** | - | **-** | - | **-** | - | **GH5053874** | Price | **GH5054874** | Price |
| 3/4 | **-** | - | **-** | - | **-** | - | **GH5053878** | Price | **GH5054878** | Price |
| 13/16 | **-** | - | **-** | - | **-** | - | **-** | - | **GH5054883** | Price |
| 7/8 | **-** | - | **-** | - | **-** | - | **-** | - | **GH5054886** | Price |
| 15/16 | **-** | - | **-** | - | **-** | - | **-** | - | **GH5054891** | Price |
| 1 | **-** | - | **-** | - | **-** | - | **-** | - | **GH5054894** | Price |
| 1-1/8 | **-** | - | **-** | - | **-** | - | **-** | - | **GH5054898** | Price |

## Round Multiple Spindle Heads

- Multiple Spindle Drilling Heads drill up to 17 holes simultaneously in work areas up to 8” diameter, or 5” x 12” rectangular
- Multiple Tapping Attachments are designed for use with style 3AL Tapper and taps up to 17 holes at once
- Multiple Spindle Drilling Heads and tapping attachments standard equipment includes: unbored TEM-PLATE, wrenches, cover clamp and shank (as required)
- Spindle assemblies and collets sold separately
- Tapping head with base assembly
- Drilling head shown with optional cover clamp

33000 Series Tapping





33000 Series Drilling

| | | | | | Round Multiple Speed Spindle Drilling Heads | | Round Multiple Spindle Tapping Head | |
|---|---|---|---|---|---|---|---|---|
| Style | Gear Ratio | Max. Drivers | Work Area (in.) | Max. RPM | Order No. | Price | Order No. | Price |
| MJ | 1:1 | 7 | 6 | 2200 | **GH5033001** | Price | **GH5033005** | Price |
| MJ | 1:2 | 6 | 6 | 1200 | **GH5033002** | Price | **GH5033006** | Price |
| MK | 1:1 | 9 | 8 | 2200 | **GH5034001** | Price | **GH5034005** | Price |
| MK | 1:2 | 8 | 8 | 1200 | **GH5034002** | Price | **GH5034006** | Price |
| MP | 1:1 | 10 | 8 | 2200 | **GH5039001** | Price | **GH5039005** | Price |
| MQ | 1:1 | 17 | 8 | 2200 | **GH5040001** | Price | **GH5040005** | Price |

## TRU-GRIP Straight Shank Tapping Chucks

- Use on CNC machining centers, screw machines, automatic lathes and chuckers, CNC lathes and milling machines
- Eliminates tap breakage caused during machine reversal by automatically providing overtravel and compensating for improper feed ranges
- Provides excellent tapped holes
- Can be used in either rigid or reversing spindles
- Easily adapts to any machine with a 3/4”, or 1”, or 1-1/2” holder
- Order style “E”/“F” collets sold separately



| Style - 2TG | | | | | | |
|---|---|---|---|---|---|---|
| Tap Collet Series | Shank Size (in./ MT) | Collet OD (in.) | Projection (in.) | Cap. (in.) | Order No. | Price |
| 2E | 1/2 SS | 1 | 2-1/8 | #6 - 1/2" | **GH5057420** | Price |
| 2E | 1MT | 1 | 2-1/8 | #6 - 1/2" | **GH5057421** | Price |
| 2E | 2MT | 1 | 2-1/8 | #6 - 1/2" | **GH5057422** | Price |

| Style - 3TG | | | | | | |
|---|---|---|---|---|---|---|
| Tap Collet Series | Shank Size (in./ MT) | Collet OD (in.) | Projection (in.) | Cap. (in.) | Order No. | Price |
| 3E | 9/16" SS | 1-7/16 | 2-1/2 | #10 - 3/4" | **GH5057430** | Price |
| 3E | 2MT | 1-7/16 | 2-1/2 | #10 - 3/4" | **GH5057432** | Price |
| 3E | 3MT | 1-7/16 | 2-1/2 | #10 - 3/4" | **GH5057433** | Price |

| Style - 4TG | | | | | | |
|---|---|---|---|---|---|---|
| Tap Collet Series | Shank Size (in./ MT) | Collet OD (in.) | Projection (in.) | Cap. (in.) | Order No. | Price |
| 4F | 3/4 SS | 2 | 3-1/8 | 1/4 - 1-1/8" | **GH5057440** | Price |
| 4F | 2MT | 2 | 3-1/8 | 1/4 - 1-1/8" | **GH5057442** | Price |
| 4F | 3MT | 2 | 3-1/8 | 1/4 - 1-1/8" | **GH5057443** | Price |
| 4F | 4MT | 2 | 3-1/8 | 1/4 - 1-1/8" | **GH5057444** | Price |

## Rectangular Multiple Spindle Heads

Prices shown are for the multiple spindle heads only. Other prices will vary depending on your requirements. To determine the correct multiple spindle head for your application, please provide the work area, the size & number of holes and the type of material to be machined. Please also specify the make & model of the drill press to be used. Cover clamps for drilling heads are sold separately according to the style of drill press.



- Spindle assemblies and collets sold separately
- Driling head shown with optional cover clamp
- GH50-35003 shown

| | | | | | Rectangular Multiple Speed Spindle Drilling Heads | | Rectangular Multiple Spinde Tapping Head | |
|---|---|---|---|---|---|---|---|---|
| Style | Gear Ratio | Max. Drivers | Work Area (in.) | Max. RPM | Order No. | Price | Order No. | Price |
| ML | 1:1 | 9 | 4 x 10 | 2000 | **GH5035001** | Price | **GH5035005** | Price |
| ML | 1:2 | 8 | 4 x 10 | 1200 | **GH5035002** | Price | **GH5035006** | Price |
| MM | 1:1 | 13 | 5 x 12 | 2000 | **GH5036001** | Price | **GH5036005** | Price |
| MM | 1:2 | 12 | 5 x 12 | 1200 | **GH5036002** | Price | **GH5036006** | Price |
| MN | 1:1 | 13 | 4 x 10 | 2000 | **GH5037001** | Price | **GH5037005** | Price |
| MO | 1:1 | 17 | 5 x 12 | 2000 | **GH5038001** | Price | **GH5038005** | Price |

## Replacement Part

### Universal Joint Assemblies†

- A solid hex, spring-loaded torque shaft connects the upper and lower pre-lubricated, booted universals (Remove the lower boot when using on 11/16” to 1/2” centers)



| Order No. | Price |
|---|---|
| **GH5033270** | Price |

**†Included with Spindle Assemblies**

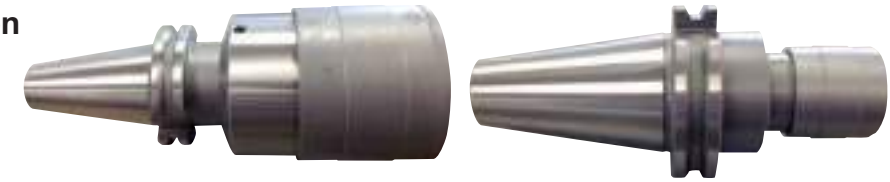
## TRU-GRIP Straight Shank Tension Tap Holders



| Model No. | Capacity (in.) | Shank Dia. (in.) | Tool Length (in.) | Tension Travel (in.) | Tap Collet Series | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 57407 | #0 - 1/4" | 3/4 | 3-1/4 | 3/8 | 1E | **GH5057407** | Price |
| 57410 | #8 - 1/2 | 1 | 4-1/4 | 1/2 | 2E | **GH5057410** | Price |
| 57413 | #10 - 3/4" | 1 | 4-7/8 | 5/8 | 3E | **GH5057413** | Price |
| 57415 | 1/4 - 1 | 1-1/2 | 5-7/16 | 5/8 | 4F | **GH5057415** | Price |

## RAPIDHOLD® Rigid & Tension Compression Tapping Holders

- Produced according to AT3 specifications
- Tools are made of high quality steel
- Balanced by design
- No through coolant capability



| Type - BT Rigid Tap Holders | | | | | |
|---|---|---|---|---|---|
| Shank | Adaptor Size | Nose Dia. | Gage Length | Order No. | Price |
| BT30 | 1 | 1.31 | 2.8 | **TS1221936** | Price |
| BT30 | 2 | 1.97 | 3.7 | **TS1221939** | Price |
| BT40 | 1 | 1.31 | 2.63 | **TS1221937** | Price |
| BT40 | 2 | 1.97 | 3.54 | **TS1221940** | Price |
| BT40 | 3 | 2.83 | 4.61 | **TS1221942** | Price |
| BT50 | 1 | 1.31 | 3.07 | **TS1221938** | Price |
| BT50 | 2 | 1.97 | 3.97 | **TS1221941** | Price |
| BT50 | 3 | 2.83 | 4.8 | **TS1221943** | Price |

| Type - BT Tension & Compression Tapping Holders | | | | | |
|---|---|---|---|---|---|
| Shank | Adaptor Size | Nose Dia. | Gage Length | Order No. | Price |
| BT30 | 1 | 1.50 | 2.48 | **TS1221915** | Price |
| BT30 | 2 | 2.17 | 3.78 | **TS1221918** | Price |
| BT40 | 1 | 1.50 | 2.68 | **TS1221916** | Price |
| BT40 | 2 | 2.17 | 3.66 | **TS1221919** | Price |
| BT40 | 3 | 3.11 | 5.43 | **TS1221921** | Price |
| BT40 | 4 | 3.86 | 6.18 | **TS1221923** | Price |
| BT50 | 1 | 1.50 | 3.15 | **TS1221917** | Price |
| BT50 | 2 | 2.17 | 4.02 | **TS1221920** | Price |
| BT50 | 3 | 3.11 | 5.31 | **TS1221922** | Price |
| BT50 | 4 | 3.86 | 5.79 | **TS1221924** | Price |

| Type - CAT Rigid Tap Holders | | | | | |
|---|---|---|---|---|---|
| Shank | Adaptor Size | Nose Dia. | Gage Length | Order No. | Price |
| CAT40 | 1 | 1.31 | 2.32 | **TS1221904** | Price |
| CAT40 | 2 | 1.97 | 3.23 | **TS1221905** | Price |

| Type - CAT Rigid Tap Holders | | | | | |
|---|---|---|---|---|---|
| Shank | Adaptor Size | Nose Dia. | Gage Length | Order No. | Price |
| CAT40 | 3 | 2.83 | 4.8 | **TS1221906** | Price |
| CAT50 | 1 | 1.31 | 2.95 | **TS1221910** | Price |
| CAT50 | 2 | 1.97 | 3.86 | **TS1221911** | Price |
| CAT50 | 3 | 2.83 | 4.8 | **TS1221912** | Price |

| Type - CAT Tension & Compression Tapping Holders | | | | | |
|---|---|---|---|---|---|
| Shank | Adaptor Size | Nose Dia. | Gage Length | Order No. | Price |
| CAT40 | 1 | 1.50 | 2.36 | **TS1221901** | Price |
| CAT40 | 2 | 2.17 | 3.94 | **TS1221902** | Price |
| CAT40 | 3 | 3.11 | 5.43 | **TS1221903** | Price |
| CAT40 | 4 | 3.86 | 6.06 | **TS1221913** | Price |
| CAT50 | 1 | 1.50 | 2.44 | **TS1221907** | Price |
| CAT50 | 2 | 2.17 | 3.27 | **TS1221908** | Price |
| CAT50 | 3 | 3.11 | 5.24 | **TS1221909** | Price |
| CAT50 | 4 | 3.86 | 5.79 | **TS1221914** | Price |

| Type - Straight Shank Rigid Tap Holders | | | | | |
|---|---|---|---|---|---|
| Shank | Adaptor Size | Nose Dia. | Gage Length | Order No. | Price |
| 1 | 1 | 1.61 | 1.6 | **TS1221952** | Price |
| 1 | 2 | 2.36 | 2.5 | **TS1221953** | Price |
| 1-1/2 | 3 | 3.38 | 3.44 | **TS1221954** | Price |

| Type - Straight Shank Tension & Compression Tapping Holders | | | | | |
|---|---|---|---|---|---|
| Shank | Adaptor Size | Nose Dia. | Gage Length | Order No. | Price |
| 1 | 1 | 1.61 | 1.76 | **TS1221932** | Price |
| 1 | 2 | 2.36 | 2.52 | **TS1221933** | Price |
| 1-1/2 | 2 | 2.36 | 2.52 | **TS1221934** | Price |
| 1-1/2 | 3 | 3.38 | 3.85 | **TS1221935** | Price |

## RAPIDHOLD® Tap Adapters

- Rigid – for through holes
- Tension/compression - provides protection against tap breakage and is the best solution for blind hole tapping



| Adaptor Size - 1 | | | | | |
|---|---|---|---|---|---|
| | | Rigid | | Tension/Compression | |
| Tap Range (Fractional) | Tap Range (Metric) | Order No. | Price | Order No. | Price |
| #0 to 6 | - | **TS1329501** | Price | **TS1329527** | Price |
| #8 | M4 | **TS1329502** | Price | **TS1329528** | Price |
| #10 | M5 | **TS1329503** | Price | **TS1329529** | Price |
| #12 | - | **TS1329504** | Price | **TS1329530** | Price |
| 1/4 | M6 | **TS1329506** | Price | **TS1329532** | Price |
| 5/16 | M8 | **TS1329507** | Price | **TS1329533** | Price |
| 3/8 | M10 | **TS1329508** | Price | **TS1329534** | Price |
| 7/16 | M11 | **TS1329509** | Price | **TS1329535** | Price |
| 1/2 | M12 | **TS1329510** | Price | **TS1329536** | Price |
| 9/16 | M14 | **TS1329511** | Price | **TS1329537** | Price |
| 1/8 NPT | - | **TS1329505** | Price | **TS1329531** | Price |

| Adaptor Size - 2 | | | | | |
|---|---|---|---|---|---|
| | | Rigid | | Tension/Compression | |
| Tap Range (Fractional) | Tap Range (Metric) | Order No. | Price | Order No. | Price |
| 5/16 | M8 | **TS1329569** | Price | **TS1329539** | Price |
| 3/8 | M10 | **TS1329570** | Price | **TS1329540** | Price |
| 7/16 | M11 | **TS1329571** | Price | **TS1329542** | Price |
| 1/2 | M12 | **TS1329572** | Price | **TS1329543** | Price |
| 9/16 | M14 | **TS1329573** | Price | **TS1329545** | Price |
| 5/8 | M16 | **TS1329514** | Price | **TS1329546** | Price |

| Adaptor Size - 2 | | | | | |
|---|---|---|---|---|---|
| | | Rigid | | Tension/Compression | |
| Tap Range (Fractional) | Tap Range (Metric) | Order No. | Price | Order No. | Price |
| 11/16 | M18 | **TS1329515** | Price | **TS1329547** | Price |
| 3/4 | - | **TS1329516** | Price | **TS1329548** | Price |
| 13/16 | M20 | **TS1329517** | Price | **TS1329549** | Price |
| 7/8 | M22 | **TS1329518** | Price | **TS1329550** | Price |
| 1/4 NPT | - | **TS1329574** | Price | **TS1329538** | Price |
| 3/8 NPT | - | **TS1329512** | Price | **TS1329541** | Price |
| 1/2 NPT | - | **TS1329513** | Price | **TS1329544** | Price |

| Adaptor Size - 3 | | | | | |
|---|---|---|---|---|---|
| | | Rigid | | Tension/Compression | |
| Tap Range (Fractional) | Tap Range (Metric) | Order No. | Price | Order No. | Price |
| 1/2 | M12, M12.5 | **TS1329575** | Price | **TS1329565** | Price |
| 9/16 | M14 | **TS1329576** | Price | **TS1329551** | Price |
| 5/8 | M16 | **TS1329577** | Price | **TS1329552** | Price |
| 11/16 | M18 | **TS1329578** | Price | **TS1329553** | Price |
| 3/4 | - | **TS1329579** | Price | **TS1329554** | Price |
| 13/16 | M20 | **TS1329580** | Price | **TS1329566** | Price |
| 7/8 | M22 | **TS1329520** | Price | **TS1329556** | Price |
| 15/16 | M24 | **TS1329521** | Price | **TS1329557** | Price |
| 1 | M25 | **TS1329522** | Price | **TS1329558** | Price |
| 1-1/16 to 1-1/8 | M27 | **TS1329524** | Price | **TS1329560** | Price |
| 1-3/16 to 1-1/4 | M30 | **TS1329525** | Price | **TS1329561** | Price |
| 1-5/16 to 1-3/8 | M33 | **TS1329526** | Price | **TS1329562** | Price |
| 3/8 NPT | - | **TS1329563** | Price | **TS1329567** | Price |
| 1/2 NPT | - | **TS1329564** | Price | **TS1329568** | Price |
| 3/4 NPT | - | **TS1329519** | Price | **TS1329555** | Price |
| 1 NPT | - | **TS1329523** | Price | **TS1329559** | Price |

| Adaptor Size - 4 | | | |
|---|---|---|---|
| | | Rigid | |
| Tap Range (Fractional) | Tap Range (Metric) | Order No. | Price |
| 1-1/2, 1-7/16 | M36 | **TS1329581** | Price |
| 1-5/8 | M39 | **TS1329582** | Price |
| 1-3/4 | M42 | **TS1329583** | Price |
| 1-7/8 | - | **TS1329584** | Price |

**F.O.B. Warren, MI**

## PARLEC Rigid Tapping Holders

- For use with popular Bilz style size and adapters
- Utilizes existing adapter inventory
- Rigid and tension-only shank available for use with sychronous tapping cycles
- Radial float improves thread quality and tap life
- Short projection maximizes workpiece size
- Adjustable short compression stroke ensures accurate depth control
- Free-floating tension stroke ensures thread size and quality
- Rugged alloy steel construction long trouble-free service life
- Coolant through up to 250 lbs. pressure



C4010TA3

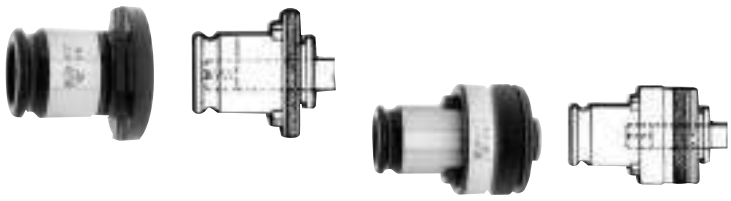
| Tap Range | Nose Dia. | Gage Length | Adaptor Size | Shank Size | Order No. | Price |
|---|---|---|---|---|---|---|
| 0 - 9/16 | 1.39 | 3.15 | 1 | CAT50 | **GM92C5010TA3C** | Price |
| 0 - 9/16 | 1.39 | 3.15 | 1 | CAT50 | **GM92C5010TR3C** | Price |
| 0 - 9/16 | 1.39 | 3.96 | 1 | CAT40 | **GM92C4010TA3C** | Price |
| 0 - 9/16 | 1.39 | 3.96 | 1 | CAT40 | **GM92C4010TR3C** | Price |
| 1/4 - 7/8 | 2.18 | 3.86 | 2 | CAT40 | **GM92C4020TR4C** | Price |
| 1/4 - 7/8 | 2.18 | 4.25 | 2 | CAT50 | **GM92C5020TA4C** | Price |
| 1/4 - 7/8 | 2.18 | 4.25 | 2 | CAT50 | **GM92C5020TR4C** | Price |
| 1/4 - 7/8 | 2.18 | 5.06 | 2 | CAT40 | **GM92C4020TA4C** | Price |
| 9/16 - 1-3/8 | 3.29 | 5.65 | 3 | CAT50 | **GM92C5030FS5C** | Price |
| 9/16 - 1-3/8 | 3.29 | 5.65 | 3 | CAT50 | **GM92C5030TA5C** | Price |
| 9/16 - 1-3/8 | 3.29 | 6.46 | 3 | CAT40 | **GM92C4030FS5C** | Price |

### Tension & Compression

| Tap Range | Nose Dia. | Gage Length | Adaptor Size | Shank Size | Order No. | Price |
|---|---|---|---|---|---|---|
| 0 - 9/16 | 1.39 | 3.15 | 1 | CAT50 | **GM92C5010TA3C** | Price |
| 0 - 9/16 | 1.39 | 3.96 | 1 | CAT40 | **GM92C4010TA3C** | Price |
| 1/4 - 7/8 | 2.18 | 4.25 | 2 | CAT50 | **GM92C5020TA4C** | Price |
| 1/4 - 7/8 | 2.18 | 5.06 | 2 | CAT40 | **GM92C4020TA4C** | Price |
| 9/16 - 1-3/8 | 3.29 | 5.65 | 3 | CAT50 | **GM92C5030TA5C** | Price |

## PARLEC Tap Adapters

- **Rigid:** Best suited for through holes and in applications where tap breakage is not a concern
- **Torque Control:** Torque Control Adapters are the best solution for protecting your taps and work pieces from tap breakage. The prime application for Torque Control Adapters is Blind Hole Tapping and where Chip Evacuation is a concern



| Adaptor Size - 1 | | | | | |
|---|---|---|---|---|---|
| | | Rigid Positive Tap Adaptor | | Tension & Compression Tap Adaptors | |
| Tap Range (Fractional) | Tap Range (Metric) | Order No. | Price | Order No. | Price |
| #6 | M1.6-M3.5 | **GM921006** | Price | **GM9210T06** | Price |
| #8 | M4 | **GM92108** | Price | **GM9210T8** | Price |
| #10 | M4.5, M5 | **GM921010** | Price | **GM9210T10** | Price |
| #12 | - | **GM921012** | Price | **GM9210T12** | Price |
| 1/4 | M6, M6.3 | **GM9210025** | Price | **GM9210T025** | Price |
| 5/16 | M7, M8 | **GM9210031** | Price | **GM9210T031** | Price |
| 3/8 | M10 | **GM9210037** | Price | **GM9210T037** | Price |
| 7/16 | M11 | **GM9210043** | Price | **GM9210T043** | Price |
| 1/2 | M12, M12.5 | **GM9210050** | Price | **GM9210T050** | Price |
| 9/16 | M14 | **GM9210056** | Price | **GM9210T056** | Price |
| 1/8 NPT | - | **GM9210012N** | Price | **GM9210T012N** | Price |

| Adaptor Size - 2 | | | | | |
|---|---|---|---|---|---|
| | | Rigid Positive Tap Adaptor | | Tension & Compression Tap Adaptors | |
| Tap Range (Fractional) | Tap Range (Metric) | Order No. | Price | Order No. | Price |
| 5/16 | M7, M8 | **-** | - | **GM9220T031** | Price |
| 3/8 | M10 | **GM9220037** | Price | **GM9220T037** | Price |
| 7/16 | M11 | **GM9220043** | Price | **GM9220T043** | Price |
| 1/2 | M12, M12.5 | **-** | - | **GM9220T050** | Price |
| 9/16 | M14 | **GM9220056** | Price | **GM9220T056** | Price |
| 5/8 | M16 | **GM9220062** | Price | **GM9220T062** | Price |
| 11/16 | M18 | **GM9220068** | Price | **GM9220T068** | Price |

| Adaptor Size - 2 | | | | | |
|---|---|---|---|---|---|
| | | Rigid Positive Tap Adaptor | | Tension & Compression Tap Adaptors | |
| Tap Range (Fractional) | Tap Range (Metric) | Order No. | Price | Order No. | Price |
| 3/4 | - | **GM9220075** | Price | **GM9220T075** | Price |
| 13/16 | M20 | **GM922081** | Price | **GM9220T81** | Price |
| 7/8 | M22 | **GM9220087** | Price | **GM9220T087** | Price |
| 1/2 NPT | - | **GM9220050N** | Price | **GM9220T050N** | Price |
| 1/4 NPT | - | **-** | - | **GM9220T025N** | Price |
| 3/8 NPT | - | **GM9220037N** | Price | **GM9220T037N** | Price |

| Adaptor Size - 3 | | | | | |
|---|---|---|---|---|---|
| | | Rigid Positive Tap Adaptor | | Tension & Compression Tap Adaptors | |
| Tap Range (Fractional) | Tap Range (Metric) | Order No. | Price | Order No. | Price |
| 3/4 | - | **-** | - | **GM9230T075** | Price |
| 13/16 | M20 | **GM9230081** | Price | **-** | - |
| 7/8 | M22 | **GM9230087** | Price | **GM9230T087** | Price |
| 15/16 | M24 | **GM9230093** | Price | **GM9230T093** | Price |
| 1 | M25 | **GM9230100** | Price | **GM9230T100** | Price |
| 1-1/8 | M27 | **GM9230106** | Price | **GM9230T106** | Price |
| 1-1/4 | M30 | **GM9230118** | Price | **GM9230T118** | Price |
| 1-3/8 | M33 | **GM9230131** | Price | **GM9230T131** | Price |
| 1/2 NPT | - | **GM9230050N** | Price | **-** | - |
| 3/4 NPT | - | **GM9230075N** | Price | **GM9230T075N** | Price |
| 1 NPT | - | **GM9230100N** | Price | **GM9230T100N** | Price |

## Tapping Collets - Inch



**Rapidhold:**
- 0.0004" T.I.R.
- High Qaulity Spring Steel
- Works with standard ER Collet chucks for synchronous Rigid Tapping Operations
- Replaces Tap Holders
- Tapping clearance is reduced
- Collet design locks tap shank

**Rego-Fix:**
- Interchangeable, with standard ER collet DIN 6499/ISO 15488
- No additional toolholders and clamping nuts necessary
- Wide product range, sizes: ER11 to 40
- Square for tight grip of tap, eliminates tap slippage in collets

**Techniks:**
- Reduced clearance requirements
- Special design locks square in slots
- Compatible with the standard collet chucks for ER, DR, RD, ESX, BR or DIN 6499 collet pockets
- The special square design locks flat-sided tap shanks into collet, preventing the tap from spinning inside the collet

**Collet Style/Fits - ER11**

| | | Rego-Fix | |
|---|---|---|---|
| Tap Size | Shank (in.) | Order No. | Price |
| #6 | .141 | GM20141103585 | Price |
| #8 | .168 | GM20141104275 | Price |

RAPIDHOLD

**Collet Style/Fits - ER16**

| | | Rapidkut | | Rego-Fix | | Techniks | |
|---|---|---|---|---|---|---|---|
| Tap Size | Shank (in.) | Order No. | Price | Order No. | Price | Order No. | Price |
| #6 | .141 | TS2028801 | Price | GM20141603585 | Price | TE1205320141 | Price |
| #8 | .168 | TS2028802 | Price | GM20141604725 | Price | TE1205320168 | Price |
| #9 | .194 | - | - | GM20141604935 | Price | - | - |
| #10 | .194 | TS2028803 | Price | - | - | TE1205320194 | Price |
| #12 | .220 | TS2028804 | Price | GM20141605595 | Price | TE1205320220 | Price |
| #14 | .255 | - | - | GM20141606485 | Price | - | - |
| 1/4 | .255 | TS2028808 | Price | - | - | TE1205320255 | Price |
| 5/16 | .318 | - | - | GM20141608085 | Price | TE1205320318 | Price |
| 3/8 | .381 | - | - | - | - | TE1205320381 | Price |
| 7/16 | .323 | - | - | - | - | TE1205320323 | Price |
| 1/2 | .367 | - | - | - | - | TE1205320367 | Price |

RAPIDHOLD

**Collet Style/Fits - ER20**

| | | Rapidkut | | Rego-Fix | | Techniks | |
|---|---|---|---|---|---|---|---|
| Tap Size | Shank (in.) | Order No. | Price | Order No. | Price | Order No. | Price |
| #6 | .141 | TS2028815 | Price | - | - | TE1205410141 | Price |
| #8 | .168 | TS2028816 | Price | GM20142004275 | Price | TE1205410168 | Price |
| #10 | .194 | TS2028817 | Price | GM20142004935 | Price | TE1205410194 | Price |
| #12 | .220 | TS2028818 | Price | GM20142005595 | Price | TE1205410220 | Price |
| #14 | .255 | - | - | GM20142006485 | Price | - | - |
| 1/4 | .255 | TS2028821 | Price | - | - | TE1205410255 | Price |
| 5/16 | .318 | TS2028822 | Price | GM20142008085 | Price | - | - |
| 3/8 | .381 | TS2028823 | Price | GM20142009685 | Price | TE1205410381 | Price |
| 7/16 | .323 | TS2028824 | Price | GM20142008215 | Price | TE1205410323 | Price |
| 1/2 | .367 | TS2028825 | Price | GM20142009325 | Price | TE1205410367 | Price |

RAPIDHOLD

**Collet Style/Fits - ER25**

| | | Rapidkut | | Rego-Fix | | Techniks | |
|---|---|---|---|---|---|---|---|
| Tap Size | Shank (in.) | Order No. | Price | Order No. | Price | Order No. | Price |
| #6 | .141 | TS2028831 | Price | - | - | TE1205510141 | Price |
| #8 | .168 | TS2028832 | Price | GM20142504275 | Price | TE1205510168 | Price |

RAPIDHOLD

**Collet Style/Fits - ER25**

| | | Rapidkut | | Rego-Fix | | Techniks | |
|---|---|---|---|---|---|---|---|
| Tap Size | Shank (in.) | Order No. | Price | Order No. | Price | Order No. | Price |
| #10 | .194 | TS2028833 | Price | GM20142504935 | Price | TE1205510194 | Price |
| #12 | .220 | TS2028834 | Price | GM20142505595 | Price | TE1205510220 | Price |
| #14 | .255 | - | - | GM20142506485 | Price | - | - |
| 1/4 | .255 | TS2028839 | Price | - | - | TE1205510255 | Price |
| 5/16 | .318 | TS2028840 | Price | GM20142508085 | Price | - | - |
| 3/8 | .381 | TS2028841 | Price | GM20142509685 | Price | TE1205510381 | Price |
| 7/16 | .323 | TS2028842 | Price | GM20142508215 | Price | TE1205510323 | Price |
| 1/2 | .367 | TS2028843 | Price | GM20142509325 | Price | TE1205510367 | Price |
| 9/16 | .429 | TS2028844 | Price | GM20142510905 | Price | TE1205510429 | Price |
| 5/8 | .480 | TS2028845 | Price | GM20142512195 | Price | TE1205510480 | Price |
| 11/16 | .542 | - | - | - | - | TE1205510542 | Price |
| 3/4 | .590 | - | - | GM20142514995 | Price | - | - |
| 1/8 NPT | .437 | TS2028838 | Price | GM20142511104 | Price | TE1205510437 | Price |

RAPIDHOLD

**Collet Style/Fits - ER32**

| | | Rapidkut | | Rego-Fix | | Techniks | |
|---|---|---|---|---|---|---|---|
| Tap Size | Shank (in.) | Order No. | Price | Order No. | Price | Order No. | Price |
| #6 | .141 | TS2028851 | Price | - | - | TE1205570141 | Price |
| #8 | .168 | TS2028852 | Price | GM20143204275 | Price | TE1205570168 | Price |
| #10 | .194 | TS2028853 | Price | GM20143204935 | Price | TE1205570194 | Price |
| #12 | .220 | TS2028854 | Price | GM20143205595 | Price | TE1205570220 | Price |
| 1/4 | .255 | TS2028860 | Price | GM20143206485 | Price | TE1205570255 | Price |
| 5/16 | .318 | TS2028861 | Price | GM20143208085 | Price | TE1205570318 | Price |
| 3/8 | .381 | TS2028862 | Price | GM20143209685 | Price | TE1205570381 | Price |
| 7/16 | .323 | TS2028863 | Price | GM20143208215 | Price | TE1205570323 | Price |
| 1/2 | .367 | TS2028864 | Price | GM20143209325 | Price | TE1205570367 | Price |
| 9/16 | .429 | TS2028865 | Price | GM20143210905 | Price | TE1205570429 | Price |
| 5/8 | .480 | TS2028866 | Price | GM20143212195 | Price | TE1205570480 | Price |
| 11/16 | .542 | TS2028867 | Price | GM20143213775 | Price | TE1205570542 | Price |
| 3/4 | .590 | TS2028868 | Price | GM20143214995 | Price | TE1205570590 | Price |
| 13/16 | .652 | TS2028869 | Price | GM20143216565 | Price | TE1205570652 | Price |
| 1/8 NPT | .437 | TS2028858 | Price | GM20143211104 | Price | TE1205570437 | Price |
| 1/4 NPT | .562 | TS2028859 | Price | GM20143214274 | Price | TE1205570562 | Price |

RAPIDHOLD

**Collet Style/Fits - ER40**

| | | Rapidkut | | Rego-Fix | | Techniks | |
|---|---|---|---|---|---|---|---|
| Tap Size | Shank (in.) | Order No. | Price | Order No. | Price | Order No. | Price |
| #6 | .141 | TS2028881 | Price | - | - | TE1205710141 | Price |
| #8 | .168 | TS2028882 | Price | - | - | TE1205710168 | Price |
| #10 | .194 | TS2028883 | Price | - | - | TE1205710194 | Price |
| #12 | .220 | TS2028884 | Price | - | - | TE1205710220 | Price |
| #14 | .255 | - | - | GM20144006485 | Price | - | - |
| 1/4 | .255 | TS2028890 | Price | - | - | TE1205710255 | Price |
| 5/16 | .318 | TS2028891 | Price | GM20144008085 | Price | TE1205710318 | Price |
| 3/8 | .381 | TS2028893 | Price | GM20144009685 | Price | TE1205710381 | Price |
| 7/16 | .323 | TS2028894 | Price | GM20144008215 | Price | TE1205710323 | Price |
| 1/2 | .367 | TS2028896 | Price | GM20144009325 | Price | TE1205710367 | Price |
| 9/16 | .429 | TS2028897 | Price | GM20144010905 | Price | TE1205710429 | Price |
| 5/8 | .480 | TS2028898 | Price | GM20144012195 | Price | TE1205710480 | Price |
| 11/16 | .542 | TS2028899 | Price | GM20144013775 | Price | TE1205710542 | Price |
| 3/4 | .590 | TS2028900 | Price | GM20144014995 | Price | TE1205710590 | Price |
| 13/16 | .652 | TS2028901 | Price | GM20144016565 | Price | TE1205710652 | Price |
| 7/8 | .697 | TS2028902 | Price | GM20144017705 | Price | TE1205710697 | Price |
| 15/16 | .760 | TS2028903 | Price | GM20144019305 | Price | - | - |
| 1 | .800 | TS2028904 | Price | GM20144020325 | Price | TE1205710800 | Price |
| 1/8 NPT | .437 | TS2028888 | Price | GM20144011104 | Price | TE1205710437 | Price |
| 1/4 NPT | .562 | TS2028889 | Price | GM20144014274 | Price | TE1205710562 | Price |
| 3/8 NPT | .700 | TS2028892 | Price | GM20144017784 | Price | TE1205710700 | Price |
| 1/2 NPT | .687 | TS2028895 | Price | GM20144017454 | Price | TE1205710687 | Price |

# Tapping Collets - Metric

**Rego-Fix:**

- Interchangeable, with standard ER collet DIN 6499/ISO 15488
- No additional toolholders and clamping nuts necessary
- Wide product range, sizes: ER11 to 40
- Square for tight grip of tap, eliminates tap slippage in collets



**Techniks:**

- Reduced clearance requirements
- Special design locks square in slots
- Compatible with the stanard collet chucks for ER, DR, RDd, ESX, BR or DIN 6499 collet pockets
- The special square design locks flat-sided tap shanks into collet, preventing the tap from spinning inside the collet

**Collet Style/Fits - ER11**

| Tap Size | Shank | Brand Name | Order No. | Price |
|---|---|---|---|---|
| M 2.0 | 2.5mm | Rego-Fix | **GM20141102500** | Price |
| M 2.0 | 2.8mm | Rego-Fix | **GM20141102800** | Price |
| M 3.0 | 3.5mm | Rego-Fix | **GM20141103500** | Price |
| M 3.5 | 4mm JIS | Rego-Fix | **GM20141104002** | Price |
| M 3.5 | 4mm | Rego-Fix | **GM20141104000** | Price |
| M 4.0 | 4.5mm | Rego-Fix | **GM20141104500** | Price |
| M 4.5 | 5mm | Rego-Fix | **GM20141104935** | Price |
| M 5.0 | 5mm | Rego-Fix | **GM20141105002** | Price |
| M 8.0 | 6mm | Rego-Fix | **GM20141106000** | Price |

**Collet Style/Fits - ER16**

| Tap Size | Shank | Brand Name | Order No. | Price |
|---|---|---|---|---|
| M 2.0 | 2.8mm | Rego-Fix | **GM20141602800** | Price |
| M 2.0 | 3.5mm | Rego-Fix | **GM20141603500** | Price |
| M 3.0 | 3.5mm | Techniks | **TE1205330DIN** | Price |
| M 4.0 | 2.8mm | Techniks | **TE1205326DIN** | Price |
| M 4.0 | 4mm | Rego-Fix | **GM20141604002** | Price |
| M 4.0 | 4.5mm | Rego-Fix | **GM20141604500** | Price |
| M 4.0 | 4.5mm | Techniks | **TE1205336DIN** | Price |
| M 5.0 | 5mm | Rego-Fix | **GM20141605002** | Price |
| M 5.0 | 5.5mm | Rego-Fix | **GM20141605501** | Price |
| M 6.0 | 6mm | Rego-Fix | **GM20141606001** | Price |
| M 6.0 | 6mm | Rego-Fix | **GM20141606000** | Price |
| M 6.0 | 6.3mm | Rego-Fix | **GM20141606302** | Price |
| M 7.0 | 5.5mm | Rego-Fix | **GM20141605500** | Price |
| M 7.0 - M 8.0 | 6.2mm | Rego-Fix | **GM20141606201** | Price |
| M 8.0 | 8mm | Rego-Fix | **GM20141608000** | Price |
| M 8.0 | 8mm | Techniks | **TE1205350DIN** | Price |
| M 8.0 | 8.5mm JIS | Techniks | **TE1205352** | Price |
| M 9.0 | 9mm | Rego-Fix | **GM20141609000** | Price |
| M 9.0 - M 10.0 | 7mm | Rego-Fix | **GM20141607000** | Price |
| M 9.0 | 7.1mm | Rego-Fix | **GM20141607102** | Price |
| M 10.0 | 2.8mm | Techniks | **TE1205356DIN** | Price |
| M 12.0 | 8.5mm | Rego-Fix | **GM20141608501** | Price |
| M 12.0 | 9mm | Techniks | **TE1205354DIN** | Price |

**Collet Style/Fits - ER20**

| Tap Size | Shank | Brand Name | Order No. | Price |
|---|---|---|---|---|
| M 2.0 | 3.5mm | Rego-Fix | **GM20142003500** | Price |
| M 4.0 | 4mm | Rego-Fix | **GM20142004002** | Price |
| M 4.0 | 4.5mm | Rego-Fix | **GM20142004500** | Price |
| M 4.0 | 4.5mm | Techniks | **TE1205428DIN** | Price |
| M 5.0 | 5mm | Rego-Fix | **GM20142005002** | Price |
| M 5.0 | 5.5mm | Rego-Fix | **GM20142005501** | Price |
| M 5.0 | 6mm | Rego-Fix | **GM20142006000** | Price |
| M 5.0 - M 6.0 | 6mm | Techniks | **TE1205434DIN** | Price |
| M 6.0 | 6mm | Rego-Fix | **GM20142006001** | Price |
| M 6.0 | 6.3mm | Rego-Fix | **GM20142006302** | Price |
| M 7.0 | 5.5mm | Rego-Fix | **GM20142005500** | Price |
| M 7.0 | 6.2mm | Rego-Fix | **GM20142006201** | Price |
| M 7.0 | 7mm | Rego-Fix | **GM20142007000** | Price |
| M 7.0 | 7.1mm | Rego-Fix | **GM20142007102** | Price |
| M 8.0 | 8mm | Techniks | **TE1205442DIN** | Price |
| M 9.0 | 9mm | Rego-Fix | **GM20142009000** | Price |
| M 10.0 | 10mm | Rego-Fix | **GM20142010000** | Price |
| M 10.0 | 10mm | Techniks | **TE1205448DIN** | Price |
| M 11.0 | 8mm | Rego-Fix | **GM20142008000** | Price |
| M 12.0 | 9mm | Techniks | **TE1205446DIN** | Price |
| M 14.0 | 10.5mm | Rego-Fix | **GM20142010501** | Price |
| M 14.0 | 11mm | Rego-Fix | **GM20142011000** | Price |
| M 14.0 | 11.2mm | Rego-Fix | **GM20142011202** | Price |
| M 16.0 | 12mm | Rego-Fix | **GM20142012000** | Price |
| M 16.0 | 12mm | Techniks | **TE1205456DIN** | Price |

**Collet Style/Fits - ER25**

| Tap Size | Shank | Brand Name | Order No. | Price |
|---|---|---|---|---|
| M 4.0 | 4mm | Rego-Fix | **GM20142504002** | Price |
| M 4.0 | 4.5mm | Rego-Fix | **GM20142504500** | Price |
| M 4.0 | 4.5mm | Techniks | **TE1205526DIN** | Price |
| M 4.5 | 6mm | Rego-Fix | **GM20142506000** | Price |
| M 5.0 | 5mm | Rego-Fix | **GM20142505002** | Price |
| M 5.0 | 5.5mm | Rego-Fix | **GM20142505501** | Price |
| M 5.0 - M 6.0 | 6mm | Techniks | **TE1205534DIN** | Price |

**Collet Style/Fits - ER25**

| Tap Size | Shank | Brand Name | Order No. | Price |
|---|---|---|---|---|
| M 6.0 | 6mm | Rego-Fix | **GM20142506001** | Price |
| M 6.0 | 6.3mm | Rego-Fix | **GM20142506302** | Price |
| M 7.0 | 5.5mm | Rego-Fix | **GM20142505500** | Price |
| M 7.0 | 6.2mm | Rego-Fix | **GM20142506201** | Price |
| M 7.0 | 7mm | Rego-Fix | **GM20142507000** | Price |
| M 7.0 | 7.1mm | Rego-Fix | **GM20142507102** | Price |
| M 8.0 | 8mm | Techniks | **TE1205542DIN** | Price |
| M 9.0 | 9mm | Rego-Fix | **GM20142509000** | Price |
| M 10.0 | 7mm | Techniks | **TE1205540DIN** | Price |
| M 10.0 | 10mm | Rego-Fix | **GM20142510000** | Price |
| M 10.0 | 10mm | Techniks | **TE1205550DIN** | Price |
| M 10.0 | 10mm | Techniks | **TE1205550** | Price |
| M 11.0 | 8mm | Rego-Fix | **GM20142508000** | Price |
| M 12.0 | 8.5mm | Rego-Fix | **GM20142508501** | Price |
| M 12.0 | 9mm | Techniks | **TE1205548DIN** | Price |
| M 14.0 | 10.5mm | Rego-Fix | **GM20142510501** | Price |
| M 14.0 | 11mm | Techniks | **TE1205554DIN** | Price |
| M 14.0 | 11mm | Rego-Fix | **GM20142511000** | Price |
| M 14.0 | 11.2mm | Rego-Fix | **GM20142511202** | Price |
| M 16.0 | 12mm | Rego-Fix | **GM20142512000** | Price |
| M 16.0 | 12mm | Techniks | **TE1205558DIN** | Price |
| M 16.0 | 12.5mm | Rego-Fix | **GM20142512502** | Price |
| M 18.0 | 14mm | Rego-Fix | **GM20142514000** | Price |
| M 20.0 | 15mm | Rego-Fix | **GM20142515001** | Price |
| M 20.0 | 16mm | Rego-Fix | **GM20142516000** | Price |

**Collet Style/Fits - ER32**

| Tap Size | Shank | Brand Name | Order No. | Price |
|---|---|---|---|---|
| M 8.0 | 8mm | Techniks | **TE1205600DIN** | Price |
| M 4.0 | 4.5mm | Rego-Fix | **GM20143204500** | Price |
| M 4.0 | 4mm | Rego-Fix | **GM20143204002** | Price |
| M 4.0 | 4.5mm | Techniks | **TE1205586DIN** | Price |
| M 5.0 | 5.5mm | Rego-Fix | **GM20143205501** | Price |
| M 5.0 | 5mm | Rego-Fix | **GM20143205002** | Price |
| M 6.0 | 6mm | Rego-Fix | **GM20143206001** | Price |
| M 6.0 | 6mm | Rego-Fix | **GM20143206000** | Price |
| M 6.0 | 6.3mm | Rego-Fix | **GM20143206302** | Price |
| M 7.0 | 5.5mm | Rego-Fix | **GM20143205500** | Price |
| M 7.0 | 6.2mm | Rego-Fix | **GM20143206201** | Price |
| M 7.0 | 7mm | Rego-Fix | **GM20143207000** | Price |
| M 7.0 | 7.1mm | Rego-Fix | **GM20143207102** | Price |
| M 8.0 | 8mm | Rego-Fix | **GM20143208000** | Price |
| M 9.0 | 9mm | Rego-Fix | **GM20143209000** | Price |
| M 10.0 | 10mm | Rego-Fix | **GM20143210000** | Price |
| M 11.0 | 8mm | Techniks | **TE1205600JIS** | Price |
| M 10.0 | 10mm | Techniks | **TE1205606DIN** | Price |
| M 12.0 | 8.5mm | Rego-Fix | **GM20143208501** | Price |
| M 12.0 | 9mm | Techniks | **TE1205604DIN** | Price |
| M 14.0 | 10.5mm | Rego-Fix | **GM20143210501** | Price |
| M 14.0 | 11mm | Rego-Fix | **GM20143211000** | Price |
| M 14.0 | 11mm | Techniks | **TE1205610** | Price |
| M 14.0 | 11.2mm | Rego-Fix | **GM20143211202** | Price |
| M 16.0 | 12mm | Rego-Fix | **GM20143212000** | Price |
| M 16.0 | 12mm | Techniks | **TE1205614DIN** | Price |
| M 16.0 | 12.5mm | Rego-Fix | **GM20143212502** | Price |
| M 18.0 | 14mm | Rego-Fix | **GM20143214000** | Price |
| M 18.0 | 14mm | Techniks | **TE1205620DIN** | Price |
| M 20.0 | 15mm | Rego-Fix | **GM20143215001** | Price |
| M 20.0 | 16mm | Rego-Fix | **GM20143216000** | Price |
| M 20.0 | 16mm | Techniks | **TE1205624DIN** | Price |
| M 22.0 | 17mm | Rego-Fix | **GM20143217001** | Price |
| M 24.0 | 18mm | Rego-Fix | **GM20143218000** | Price |
| M 27.0 | 20mm | Rego-Fix | **GM20143220000** | Price |

**Collet Style/Fits - ER40**

| Tap Size | Shank | Brand Name | Order No. | Price |
|---|---|---|---|---|
| M 6.0 | 6mm | Rego-Fix | **GM20144006000** | Price |
| M 6.0 | 6mm | Rego-Fix | **GM20144006001** | Price |
| M 6.0 | 6.3mm | Rego-Fix | **GM20144006302** | Price |
| M 7.0 | 6.2mm | Rego-Fix | **GM20144006201** | Price |
| M 7.0 | 7mm | Rego-Fix | **GM20144007000** | Price |
| M 7.0 | 7.1mm | Rego-Fix | **GM20144007102** | Price |
| M 8.0 | 8mm | Rego-Fix | **GM20144008000** | Price |
| M 10.0 | 10mm | Rego-Fix | **GM20144010000** | Price |
| M 12.0 | 8.5mm | Rego-Fix | **GM20144008501** | Price |
| M 12.0 | 9mm | Rego-Fix | **GM20144009000** | Price |
| M 14.0 | 10.5mm | Rego-Fix | **GM20144010501** | Price |
| M 14.0 | 11mm | Rego-Fix | **GM20144011000** | Price |
| M 14.0 | 11.2mm | Rego-Fix | **GM20144011202** | Price |
| M 16.0 | 12mm | Rego-Fix | **GM20144012000** | Price |
| M 16.0 | 12.5mm | Rego-Fix | **GM20144012502** | Price |
| M 18.0 | 14mm | Rego-Fix | **GM20144014000** | Price |
| M 20.0 | 15mm | Rego-Fix | **GM20144015001** | Price |
| M 20.0 | 16mm | Rego-Fix | **GM20144016000** | Price |
| M 22.0 | 17mm | Rego-Fix | **GM20144017001** | Price |
| M 24.0 | 18mm | Rego-Fix | **GM20144018000** | Price |
| M 27.0 | 20mm | Rego-Fix | **GM20144020000** | Price |
| M 30.0 | 22mm | Rego-Fix | **GM20144022000** | Price |

## Split Sleeve Tap Drivers



- Square on tap shank engages with the broached square hole in the tap driver for a positive drive of the tap
- Made from high quality steel and properly heat treated

| Tap Size (in.) | Morse Taper Shank | Order No. | Price |
|---|---|---|---|
| #0 to 6 | 1 | **HA5271300** | Price |
| #8 | 1 | **HA5271301** | Price |
| #10 | 1 | **HA5271302** | Price |
| #12 | 1 | **HA5271303** | Price |
| 1/4 | 1 | **HA5271320** | Price |
| 1/4 | 2 | **HA5272420** | Price |
| 5/16 | 1 | **HA5271321** | Price |
| 5/16 | 2 | **HA5272421** | Price |
| 3/8 | 2 | **HA5272423** | Price |
| 3/8 Small Shank | 1 | **HA5271322** | Price |
| 3/8 Small Shank | 2 | **HA5272422** | Price |
| 7/16 | 2 | **HA5272424** | Price |
| 1/2 | 2 | **HA5272425** | Price |
| 1/2 | 3 | **HA5273420** | Price |
| 9/16 | 2 | **HA5272426** | Price |
| 9/16 | 3 | **HA5273421** | Price |
| 5/8 | 2 | **HA5272427** | Price |
| 5/8 | 3 | **HA5273422** | Price |
| 11/16 | 2 | **HA5272428** | Price |
| 11/16 | 3 | **HA5273423** | Price |
| 3/4 | 3 | **HA5273424** | Price |
| 3/4 | 4 | **HA5274420** | Price |
| 13/16 | 3 | **HA5273426** | Price |
| 7/8 | 3 | **HA5273425** | Price |
| 7/8 | 4 | **HA5274421** | Price |
| 1 | 4 | **HA5274422** | Price |
| 1-1/8 | 4 | **HA5274423** | Price |
| 1-1/8 | 5 | **HA5275100** | Price |
| 1-1/4 | 4 | **HA5274424** | Price |
| 1-1/4 | 5 | **HA5275101** | Price |
| 1-3/8 | 5 | **HA5275102** | Price |
| 1-1/2 | 5 | **HA5275103** | Price |
| 1-3/4 | 5 | **HA5275104** | Price |

## Split Sleeve Pipe Tap Drivers



- Square on tap shank engages with the broached square hole in the tap driver for a positive drive of the tap
- Made from high quality steel and properly heat treated

| Tap Size (in.) | Morse Taper Shank | Order No. | Price |
|---|---|---|---|
| 1/16 NPT & 1/8 NPT Small Shank | 2 | **HA5372450** | Price |
| 1/8 NPT Large Shank | 2 | **HA5372451** | Price |
| 1/4 NPT | 3 | **HA5373450** | Price |
| 3/8 NPT | 4 | **HA5374450** | Price |
| 1/2 NPT | 4 | **HA5374451** | Price |
| 3/4 NPT | 4 | **HA5374452** | Price |
| 3/4 NPT | 5 | **HA5375110** | Price |
| 1 NPT | 5 | **HA5375111** | Price |
| 1-1/4 NPT | 5 | **HA5375112** | Price |
| 1-1/2 NPT | 5 | **HA5375113** | Price |

## Safety Guard Collets



- Safety Guard Collets have a free running safety collar added to minimize accidental slippage when changing collets

| Fits Chuck Type | Internal Taper | Collet Dia. (in.) | Order No. | Price |
|---|---|---|---|---|
| 2 | 1MT | 1-1/4 | **GW5064121** | Price |
| 2 | 2MT | 1-1/4 | **GW5064122** | Price |
| 2 | 3MT | 1-1/4 | **GW5064123** | Price |
| 3 | 1MT | 1-11/16 | **GW5064131** | Price |
| 3 | 2MT | 1-11/16 | **GW5064132** | Price |
| 3 | 3MT | 1-11/16 | **GW5064133** | Price |
| 3 | 4MT | 1-11/16 | **GW5064134** | Price |
| 4 | 1MT | 2-3/8 | **GW5064141** | Price |
| 4 | 2MT | 2-3/8 | **GW5064142** | Price |
| 4 | 3MT | 2-3/8 | **GW5064143** | Price |
| 4 | 4MT | 2-3/8 | **GW5064144** | Price |
| 4 | 5MT | 2-3/8 | **GW5064145** | Price |

## Magic Chucks



- For quick change tooling on single spindle machines
- Tool changes can be made without slowing or stopping machine
- Completely hardened and precision ground
- For vertical spindles
- A slight touch raises the large locking ring to release the collet and tool
- Magic chucks for horizontal spindles available

| Chuck Type | Shank | Hole Dia. (in.) | Order No. | Price |
|---|---|---|---|---|
| 1 | 1MT | 15/16 | **GW500101** | Price |
| 1 | 2MT | 15/16 | **GW500102** | Price |
| 1 | 3MT | 15/16 | **GW500103** | Price |
| 1 | 4MT | 15/16 | **GW500104** | Price |
| 2 | 2MT | 1-1/4 | **GW500202** | Price |
| 2 | 3MT | 1-1/4 | **GW500203** | Price |
| 2 | 4MT | 1-1/4 | **GW500204** | Price |
| 2 | 5MT | 1-1/4 | **GW500205** | Price |
| 3 | 3MT | 1-11/16 | **GW500303** | Price |
| 3 | 4MT | 1-11/16 | **GW500304** | Price |
| 3 | 5MT | 1-11/16 | **GW500305** | Price |
| 4 | 4MT | 2-3/8 | **GW500404** | Price |
| 4 | 5MT | 2-3/8 | **GW500405** | Price |

**Some items shelf worn • Less 30%**

## Collets for Magic Chucks



- Completely heat treated and precision ground
- Hole allows for use of standard Morse taper tooling

| Fits Chuck Type | Internal Taper | Collet Dia. (in.) | Order No. | Price |
|---|---|---|---|---|
| 1 | 1MT | 15/16 | **GW500501** | Price |
| 1 | 2MT | 15/16 | **GW500502** | Price |

## Adjustable Adapter Assemblies



- Multiple spindles require the accuracy of precision turned Acme threads and the concentricity of a precisely ground O.D. and I.D.
- All adapters are produced to precise automotive standards to maintain maximum spindle performance and minimize tool runout

| Outside Dia. (in.) | Inside Taper | Overall Length (in.) | Thread Length (in.) | Length of Flat (in.) | Nat'l Acme Thread (in.) | Min. Proj. (in.) | Axial Adj. (in.) | Woodruff Key Size (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| 1/2 | 0MT | 3 | 1-1/2 | 1-3/8 | 1/2-16 | 1/2 | 7/8 | 1/8 x 5/8 | **GW5270700** | Price |
| 5/8 | 1MT | 3 | 1-1/2 | 1-3/8 | 5/8-16 | 1/2 | 7/8 | 5/32 x 5/8 | **GW5270701** | Price |
| 3/4 | 1MT | 3 | 1-1/2 | 1-3/8 | 3/4-12 | 1/2 | 7/8 | 5/32 x 5/8 | **GW5270711** | Price |
| 7/8 | 2MT | 3-5/8 | 1-5/8 | 1-7/8 | 7/8-12 | 5/8 | 1 | 3/16 x 3/4 | **GW5270712** | Price |
| 1 | 1MT | 3-5/8 | 1-5/8 | 1-7/8 | 1-12 | 5/8 | 1 | 3/16 x 7/8 | **GW5270721** | Price |
| 1 | 2MT | 3-5/8 | 1-5/8 | 1-7/8 | 1-12 | 5/8 | 1 | 3/16 x 7/8 | **GW5270722** | Price |
| 1-1/16 | 1MT | 3-5/8 | 1-5/8 | 1-7/8 | 1-1/16-12 | 5/8 | 1 | 3/16 x 7/8 | **GW5270731** | Price |
| 1-1/16 | 2MT | 3-5/8 | 1-5/8 | 1-7/8 | 1-1/16-12 | 5/8 | 1 | 3/16 x 7/8 | **GW5270732** | Price |
| 1-3/8 | 2MT | 4-5/8 | 1-7/8 | 2-5/8 | 1-3/8-12 | 5/8 | 1-1/8 | 1/4 x 1 | **GW5270742** | Price |
| 1-3/8 | 3MT | 4-5/8 | 1-7/8 | 2-5/8 | 1-3/8-12 | 5/8 | 1-1/8 | 1/4 x 1 | **GW5270743** | Price |
| 1-7/8 | 3MT | 5-5/8 | 2-1/2 | 3 | 1-7/8-12 | 3/4 | 1-1/8 | 5/16 x 1-1/4 | **GW5270753** | Price |
| 1-7/8 | 4MT | 5-5/8 | 2-1/2 | 3 | 1-7/8-12 | 3/4 | 1-1/8 | 5/16 x 1-1/4 | **GW5270754** | Price |

## National Boring Heads

- Ideal for mill or jig bore operation
- These heads readily adapt to many different machines due to interchangeable shanks
- 2” and 3” Heads have large .001” reading dial screw
- 4” Heads have .0005” reading dial for fine adjustment



| Head Dia. (in.) | OAL w/o Shank (in.) | Boring Bar Hole (in.) | Cir. Distance Between Holes (in.) | Offset (in.) | Threaded Back | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 2 | 2-15/32 | 1/2 | 5/8 | 5/8 | 7/8-20 | **GE65NBH202** | Price |
| 3 | 3-5/32 | 3/4 | 15/16 | 1 | 1-1/2-18 | **GE65NBH203** | Price |
| 4 | 3-3/4 | 1 | 1-1/4 | 1-5/8 | 1-1/2-18 | **GE65NBH204** | Price |

## Criterion Model CB Round Styles

- Because of the two vertical and one horizontal hole, the merit of these heads lies in their versatility
- They feature a wide bar holder base to assure maximum rigidity
- As in all Criterion heads, they too feature direct dial screws
- The threaded shanks accept a variety of shanks
- Note: Other diameters and hole size options exist-call for price and availability



| Actual Round Size (in.) | OAL (in.) | Boring Bar Hole Size (in.) | Offset (in.) | Thread | Order No. | Price |
|---|---|---|---|---|---|---|
| 2 | 2-13/32 | 3/8 | 5/8 | 7/8-20 | **GE60CB202A** | Price |
| 2 | 2-13/32 | 1/2 | 5/8 | 7/8-20 | **GE60CB202B** | Price |
| 3 | 3-5/32 | 3/4 | 1 | 1-1/2-18 | **GE60CB203D** | Price |
| 4 | 3-3/4 | 1 | 1-5/8 | 1-1/2-18 | **GE60CB204E** | Price |

## Criterion Model S Square Style

- These heads have threaded backs that will accept a variety of shanks
- The micrometer adjusting screws are direct reading with 50 graduations on the dial of the GE60S112 and 100 graduations on the dial of the GE60S3 or GE60S3C
- Note: Other diameters and hole size options exist-call for price and availability



| Actual Square Size (in.) | OAL (in.) | Boring Bar Hole Round Size (in.) | Offset (in.) | Thread | Order No. | Price |
|---|---|---|---|---|---|---|
| 1-1/2 Square | 2-1/4 | 1/2 | 9/16 | 7/8-20 | **GE60S112** | Price |
| 3 Square | 2-15/16 | 1 | 1-1/2 | 1-1/2-18 | **GE60S3** | Price |

## Criterion 3FHB Boring and Facing Head

- Ideal tool for performing those difficult facing, grooving, backfacing and counterboring operations on work pieces too large to turn or too bulky to handle safely
- Automatic feed is in the forward mode and is actuated by holding a knurled feed-ring
- To return to starting position a hex wrench is inserted in the end of the micrometer screw and manually reversed
- Features a gear drive that generates a continuous feed rate of .003” per revolution
- To prevent damage to the gear train, a specially designed detent clutch automatically disengages when a pre-set stop is reached or when cutting pressures become excessive
- A 1-1/2-18 threaded back permits the use of any of the 1-1/2-18 threaded shanks and adapters shown above



| Threaded Back | Body Dia. (in.) | Height (in.) | Offset or Travel (in.) | Boring Bar Hole Size (in.) | Cross Hole Dia. Bar Dia. | Feed Rate | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 1-1/2-18 | 3 | 3-7/8 | 7/8 | 3/4 | 3/4 | .003 per rev. | **GE603FHB** | Price |

## Precision Boring Heads with Integrated Shanks

- Entirely manufactured in the USA
- Available in R-8, 3/4” or 1” shanks
- Precision hardened steel
- 2”, 2-1/2” and 3” Body diameter
- Direct reading .001” micrometer dial screw
- Boring capacity up to 4”

MADE IN THE USA



| Shank Style - R-8 Shank | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Head Dia. (in.) | Shank Dia. (in.) | Hole Dia. (in.) | Offset Travel (in.) | Vertical Hole Spacing (in.) | Shank Length (in.) | OAL (in.) | Order No. | Price |
| 2 | R-8 | 3/8 | 3/4 | 5/8 | 4 | 6-7/16 | **GE70BHR8A** | Price |
| 2-1/2 | R-8 | 1/2 | 3/4 | 3/4 | 4 | 7-3/16 | **GE70BHR8B** | Price |
| 2-1/2 | R-8 | 5/8 | 3/4 | 3/4 | 4 | 7-3/16 | **GE70BHR8C** | Price |
| 3 | R-8 | 3/4 | 1-1/4 | 15/16 | 4 | 7-1/2 | **GE70BHR8D** | Price |

| Shank Style - Straight Shank | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Head Dia. (in.) | Shank Dia. (in.) | Hole Dia. (in.) | Offset Travel (in.) | Vertical Hole Spacing (in.) | Shank Length (in.) | OAL (in.) | Order No. | Price |
| 2 | 3/4 | 3/8 | 3/4 | 5/8 | 2-5/8 | 5-1/16 | **GE70BH34A** | Price |
| 2-1/2 | 3/4 | 1/2 | 3/4 | 3/4 | 2-5/8 | 5-13/16 | **GE70BH34B** | Price |
| 2-1/2 | 3/4 | 5/8 | 3/4 | 3/4 | 2-5/8 | 5-13/16 | **GE70BH34C** | Price |
| 3 | 1 | 3/4 | 1-1/4 | 15/16 | 2-5/8 | 6-1/8 | **GE70BH1D** | Price |

## Threaded Shanks For 7/8-20 & 1-1/2-18 Mount



| | 1-1/2-18 Mount | | 7/8-20 Mount | |
|---|---|---|---|---|
| Description | Order No. | Price | Order No. | Price |
| 1/2 Straight Shank | **GE65NBS08** | Price | **GE65NBS07** | Price |
| 3/4 Straight Shank | **GE65NBS10** | Price | **GE65NBS09** | Price |
| 1 Straight Shank | **GE65NBS12** | Price | **GE65NBS11** | Price |
| 1-1/4 Straight Shank | **GE65NBS13** | Price | **-** | - |

| | 1-1/2-18 Mount | | 7/8-20 Mount | |
|---|---|---|---|---|
| Description | Order No. | Price | Order No. | Price |
| 1-1/2 Straight Shank | **GE65NBS14** | Price | **-** | - |
| 3 Morse Taper Shank | **GE65NBS04** | Price | **GE65NBS03** | Price |
| 4 Morse Taper Shank | **GE65NBS06** | Price | **GE65NBS05** | Price |
| Bridgeport R-8 Shank | **GE65NBS02** | Price | **GE65NBS01** | Price |

## Criterion Shanks and Adapters with 7/8-20 Thread

- For use with the following units with 7/8-20 threaded backs - S-1-1/2, S-2, DBL-202 and SL-202 boring heads, and the CB2 series Cri-Bore bars



| Shank Style | Order No. | Price |
|---|---|---|
| 1/2" Round Straight Shank | **GE6020032** | Price |
| 5/8" Round, Straight Shank | **GE6020033** | Price |
| 3/4" Round, Straight Shank | **GE6020034** | Price |
| 1" Round, Straight Shank | **GE6020061** | Price |
| 2MT Tang | **GE6020027** | Price |
| 3MT Tang | **GE6020028** | Price |
| 4MT Tang | **GE6020029** | Price |
| 2MT with Draw Bar | **GE6020017** | Price |
| R8 | **GE6020055** | Price |
| 30 NMTB | **GE6020120** | Price |
| 40 NMTB | **GE6020121** | Price |
| CAT 40 | **GE60CB2CV40** | Price |
| CAT 50 | **GE60CB2CV50** | Price |

## Criterion Shanks and Adapters with 1-1/2-18 Thread

- For use with the following units with 1-1/2-18 threaded backs - S-3, DBL-204, SL-203, SL-204, TS-250, 3F-HB boring heads, fly bar #44 and #66, fly cutters FC-34 and FC-44 and the CB3 series Cri-Bore bars



| Shank Style | Order No. | Price |
|---|---|---|
| 3/4" Round, Straight Shank | **GE6020015** | Price |
| 1-1/4" Round, Straight Shank | **GE6020065** | Price |
| 1-1/2" Round, Straight Shank | **GE6020059** | Price |
| 2" Round, Straight Shank | **GE6020006** | Price |
| 3MT | **GE6020007** | Price |
| 4MT | **GE6020008** | Price |
| 5MT | **GE6020009** | Price |
| R8 | **GE6020063** | Price |
| 30 NMTB | **GE6020122** | Price |
| 40 NMTB | **GE6020123** | Price |
| 50 NMTB | **GE6020124** | Price |
| CAT40 | **GE60CB3CV40** | Price |
| CAT 50 | **GE60CB3CV50** | Price |

## R-8 Shank Boring Head Sets

- R-8 Shank Boring Head Sets
- Ideal for mill or jig bore operation
- These heads readily add to many different machines due to interchangeable shanks.
- 2” and 3” Heads have large .001” reading dial screw



| Includes | Order No. | Price |
|---|---|---|
| 2" Boring Head, R8 Shank and 9pc 1/2" Shank Carbide Tipped Boring Bar Set | **GE65NBH202S** | Price |
| 3" Boring Head, R8 Shank and 9pc 3/4" Shank Carbide Tipped Boring Bar Set | **GE65NBH203S** | Price |

## Criterion Bridgeport Boring Head Sets

MADE IN THE USA

Criterion Machine Works has made available a number of boring head sets specifically selected for Bridgeport Mills. These sets include a standard Criterion Boring Head with an R-8 shank and a wide range of boring tools and boring bars. The boring tools are available in either a C-2 or C-6 grade of carbide. C-6 Standard, C-2 by special order only.

**GE601100A Set**

This set covers a boring range of 1/8” to 8-5/8” and consists of the following items.

- 1- CB-202 boring head
- 1- R-8 shank
- 1- SBT-125B boring tool 1/8” bore diameter
- 1- SBT-187B boring tool 3/16” bore diameter
- 1- SBT-250B boring tool 1/4” bore diameter
- 1- SBT-312B boring tool 5/16” bore diameter
- 1- SBT-375B boring tool 3/8” bore diameter
- 1- SBT-500B boring tool 1/2” bore diameter



GE601100A



**GE601300A Set**

This set covers a boring range of 1/2” to 11” and consists of the following items.

- 1- CB-203 boring head
- 1- R-8 shank
- 1- SBT-500D boring tool 1/2” bore diameter
- 1- SBT-625D boring tool 5/8” bore diameter
- 1- SBT-750D boring tool 3/4” bore diameter
- 1- SBT-1000D boring tool 1” bore diameter
- 1- SBT-1250D boring tool 1-1/4” bore diameter
- 1- SBT-500B boring tool 1/2” bore diameter



GE601300A



| Thread | Body Dia. Bar (in.) | Bar Dia. (in.) | Order No. | Price |
|---|---|---|---|---|
| 7/8-20 | 2 | 1/2 | **GE601100A** | Price |
| 1-1/2-18 | 3 | 3/4 | **GE601300A** | Price |

## Criterion Micro Adjusting CNC Boring Kits

- Excellent for close tolerance bores
- Total range of micro adjustment is .006” on diameter
- Ground to AT3 Taper Tolerance
- Through the spindle coolant capable
- Boring Bars
- CBT Style uncoated micro grain carbide
- TA Style carbide insert, 4 flat design
- Comes with custom molded plastic case
- All kits includes toolholder, adapter, boring bars & carbide inserts



| | | | | | | CAT40 | | CAT50 | |
|---|---|---|---|---|---|---|---|---|---|
| Thread (in.) | Bar Dia. (in.) | OAL (in.) | Min. Bore Dia. (in.) | Max. Bore Dia. (in.) | Boring Head No. | Order No. | Price | Order No. | Price |
| 7/8-20 | 1/8, 3/8 | 3 | .060 | 2.500 | CB-1500AMA | **GE60KIT150040** | Price | **GE60KIT150050** | Price |
| 1-1/2-18 | 1/8, 3/8 | 3-3/8 | .060 | 3.250 | CB-2500BMA | **GE60KIT250040** | Price | **GE60KIT250050** | Price |
| 1-1/2-18 | 1/4, 3/8, 1/2, 3/4 | 3-3/8 | .120 | 5.125 | CB-3000DMA | **GE60KIT300040** | Price | **GE60KIT300050** | Price |

## Boring Kits

- Dial adjustable 0.0001” increments
- Rhombic or triangular inserts

**Rhombic Kit Includes:**

- 1 Pc. EPMT 1.5_
- 3 Pcs. CCMT 21.5_
- 3 Pcs. CCMT 32.5_

**Triangular Kit Includes:**

- 2 Pcs. TCMT 1.2_
- 3 Pcs. TCMT 1.8_
- 2 Pcs. TCMT 32.5_

New!



| Max. Range | Description | Order No. | Price |
|---|---|---|---|
| .314 to 3.94 | Triangle Modular Boring Kit | **TE106991235** | Price |
| .314 to 6.69 | Rhombic Modular Boring Kit | **TE106991230** | Price |
| .314 to 8.27 | Triangle Modular Boring Kit | **TE106991240** | Price |

## PARLEC Balanceable Modular Boring Kit

### Diameter Range .354” - 1.890” (9mm-48mm)

- The Balanceable Modular Boring Kit comes equipped with 1 EACH of items shown below with exception of inserts which is 4 of each. Kit also includes a complete balancing guide to ensure the highest-level of precision possible
- Shanks not included Order shanks separately

| Type | Order No. | Price |
|---|---|---|
| Boring Kit | **GM95BTKPC6S948B** | Price |
| Boring Bars | **GM91BSS10** | Price |
| Boring Bars | **GM91BSS12** | Price |
| Boring Bars | **GM91BSS14** | Price |
| Boring Bars | **GM91BSS625** | Price |
| Boring Bars | **GM91BSS8** | Price |
| Boring Kit Case | **GM98902152** | Price |
| Boring Noses | **GM91BN10X13** | Price |
| Boring Noses | **GM91BN12X17** | Price |
| Boring Noses | **GM91BN14X21** | Price |
| Boring Noses | **GM91BN16X25** | Price |
| Boring Noses | **GM91BN16X29** | Price |
| Boring Noses | **GM91BN16X33** | Price |
| Boring Noses | **GM91BN16X37** | Price |
| Boring Noses | **GM91BN16X41** | Price |
| Boring Noses | **GM91BN8X9** | Price |



| Type | Order No. | Price |
|---|---|---|
| Reduction Bushings | **GM9162RB08MM** | Price |
| Reduction Bushings | **GM9162RB10MM** | Price |
| Reduction Bushings | **GM9162RB12MM** | Price |
| Reduction Bushings | **GM9162RB14MM** | Price |
| Wrenches | **GM91018002** | Price |
| Wrenches | **GM91018105** | Price |
| Wrenches | **GM9189410** | Price |
| Wrenches | **GM9189412** | Price |
| Wrenches | **GM9189414** | Price |
| Wrenches | **GM918946** | Price |
| Wrenches | **GM918948** | Price |
| Wrenches | **GM98018206** | Price |

## TG Style Collet Holders

**Rapidhold:**
- All collet chucks are supplied with depth set screws
- Collet seat taper T.I.R. greater than 0.0002”
- Produced according to AT3 specifications
- Tools are made of a high quality steel
- Through the spindle coolant capability
- Dynamically balanced to G6.3 @ 15,000 RPM
- All balanced tools are supplied with QA certificate



**Parlec:**
- Constructed of alloy steel for long, durable service life
- Hardened to RC 52-56 to avoid damaging collet chuck threads
- Collet seat taper T.I.R. greater than .0002”
- Collet face within .06 of nut face for maximum rigidity
- Through-spindle coolant capability
- Parsymmetry™ design for high-speed operation

**Techniks:**
- .0002” concentricity or less from shank to bore
- Black oxide prior to finish grind
- External threads are finished ground for best collet nut concentricity
- Will work with any TG75 series collet

**Briney:**
- .0002” concentricity or less from taper shank to bore
- Black oxide prior to finish grind
- External threads are finished ground for best collet nut concentricity

**Shank - BT40**

| Nose Dia. (in.) | Head Length/ Projection (in.) | Collet Style | Brand Name | Order No. | Price |
|---|---|---|---|---|---|
| 1.97 | 2.75 | TG75 | Rapidhold | **RH2224301R** | Price |
| 2.36 | 3.15 | TG100 | Rapidhold | **RH2224303R** | Price |
| 2.36 | 3.94 | TG100 | Rapidhold | **RH2224305R** | Price |
| 2.36 | 5.90 | TG100 | Rapidhold | **RH2224307R** | Price |

**Shank - BT50**

| Nose Dia. (in.) | Head Length/ Projection (in.) | Collet Style | Brand Name | Order No. | Price |
|---|---|---|---|---|---|
| 2.36 | 3.54 | TG100 | Rapidhold | **RH2225301R** | Price |
| 2.36 | 5.90 | TG100 | Rapidhold | **RH2225302R** | Price |

**Shank - CAT40**

| Nose Dia. (in.) | Head Length/ Projection (in.) | Collet Style | Brand Name | Order No. | Price |
|---|---|---|---|---|---|
| 1.88 | 2.75 | TG75 | Techniks | **TE1223008** | Price |
| 1.97 | 2.54 | TG75 | Rapidhold | **RH2221301R** | Price |
| 1.97 | 5.79 | TG75 | Rapidhold | **RH2221303R** | Price |
| 2.10 | 3.00 | TG75 | Parlec | **GM96C4075SC3** | Price |
| 2.36 | 2.76 | TG100 | Rapidhold | **RH2221306R** | Price |
| 2.36 | 3 | TG100 | Techniks | **TE1223014** | Price |
| 2.36 | 3.76 | TG100 | Rapidhold | **RH2221308R** | Price |
| 2.36 | 4 | TG100 | Techniks | **TE1223016** | Price |
| 2.36 | 5.76 | TG100 | Rapidhold | **RH2221310R** | Price |
| 2.36 | 6 | TG100 | Techniks | **TE1223018** | Price |
| 2.44 | 3.00 | TG100 | Parlec | **GM96C4010SC3** | Price |
| 2.44 | 5.00 | TG100 | Parlec | **GM96C4010SC5** | Price |
| 3.43 | 4.88 | TG150 | Parlec | **GM96C4015SC4** | Price |

**Shank - CAT50**

| Nose Dia. (in.) | Head Length/ Projection (in.) | Collet Style | Brand Name | Order No. | Price |
|---|---|---|---|---|---|
| 1.97 | 2.54 | TG75 | Rapidhold | **RH2222302R** | Price |
| 2.36 | 3.26 | TG100 | Rapidhold | **RH2222308R** | Price |
| 2.44 | 3.00 | TG100 | Parlec | **GM96C5010SC3** | Price |
| 2.44 | 3.50 | TG100 | Parlec | **GM96C5010SC4** | Price |
| 2.44 | 4.00 | TG100 | Rapidhold | **RH2222309R** | Price |
| 2.44 | 5.50 | TG100 | Parlec | **GM96C5010SC5** | Price |
| 3.43 | 3.00 | TG150 | Parlec | **GM96C5015SC3** | Price |
| 3.43 | 3.50 | TG150 | Parlec | **GM96C5015SC4** | Price |

**Shank - Extensions**

| Nose Dia. (in.) | Head Length/ Projection (in.) | Collet Style | Brand Name | Order No. | Price |
|---|---|---|---|---|---|
| 1.50 | 4.00 | TG75 | Briney | **GM30SS125CH075** | Price |
| 1.78 | 6.00 | TG100 | Briney | **GM30SS150CH100** | Price |
| 2.53 | 6.00 | TG150 | Briney | **GM30SS200CH150** | Price |

**Shank - NMTB30**

| Nose Dia. (in.) | Head Length/ Projection (in.) | Collet Style | Brand Name | Order No. | Price |
|---|---|---|---|---|---|
| 2.080 | .421 | TG75 | Briney | **GM30NMTB30CH075** | Price |

**Shank - NMTB40**

| Nose Dia. (in.) | Head Length/ Projection (in.) | Collet Style | Brand Name | Order No. | Price |
|---|---|---|---|---|---|
| 1.950 | .390 | TG75 | Briney | **GM30NMTB40CH075** | Price |
| 2.480 | .390 | TG100 | Briney | **GM30NMTB40CH100** | Price |

**Shank - NMTB50**

| Nose Dia. (in.) | Head Length/ Projection (in.) | Collet Style | Brand Name | Order No. | Price |
|---|---|---|---|---|---|
| 2.480 | .594 | TG100 | Briney | **GM30NMTB50CH100** | Price |

## Double Angle (DA Type) Collet Holders

**Parlec:**
- Collet seat taper T.I.R. ≤ .0004”
- Through spindle coolant capability
- Parsymmetry™ design for high speed operation

**Rapidkut:**
- Balanced by design
- Through spindle coolant capability
- Dynamically balanced to G6.3 @ 15,000 RPM

**Techniks:**
- .0002” concentricty or less from shank to bore
- Black oxide prior to finish grind
- Extrenal threads are finished ground for best collet nut concentricity
- Will work with any DA200 series collet

**Briney:**
- .0002” concentricty or less from taper shank to bore
- Black oxide prior to finish grind
- Extrenal threads are finished ground for best collet nut concentricity







**Collet Style - DA100**

| Shank | Nose Dia. (in) | Head Length/ Projection(in) | OAL (in.) | Brand Name | Order No. | Price |
|---|---|---|---|---|---|---|
| 1 | .870 | .875 | 7.500 | Briney | **GM30SS100DA100** | Price |

**Collet Style - DA180**

| Shank | Nose Dia. (in) | Head Length/ Projection(in) | OAL (in.) | Brand Name | Order No. | Price |
|---|---|---|---|---|---|---|
| NMTB30 | 1.700 | .421 | 5.688 | Briney | **GM30NMTB30DA180** | Price |
| CAT40 | 1.44 | 5.15 | - | Parlec | **GM96C4018DC5** | Price |
| CAT40 | 3.00 | 2.95 | - | Parlec | **GM96C4018DC2** | Price |
| CAT50 | 1.44 | 3.38 | - | Parlec | **GM96C5018DC3** | Price |
| CAT50 | 1.44 | 6.15 | - | Parlec | **GM96C5018DC6** | Price |
| CAT50 | 1.44 | 8.15 | - | Parlec | **GM96C5018DC8** | Price |
| CAT40 | 1.44 | 3.38 | - | Parlec | **GM96C4018DC3** | Price |
| CAT50 | 1.73 | 6.00 | 10.76 | Rapidhold | **TS1022402** | Price |
| CAT50 | 1.73 | 3.00 | 7.76 | Rapidhold | **TS1022401** | Price |

**Collet Style - DA200**

| Shank | Nose Dia. (in) | Head Length/ Projection(in) | OAL (in.) | Brand Name | Order No. | Price |
|---|---|---|---|---|---|---|
| 3/4 | .605 | .687 | 7.230 | Briney | **GM30SS075DA200** | Price |
| NMTB30 | 1.130 | .421 | 5.688 | Briney | **GM30NMTB30DA200** | Price |
| CAT40 | .810 | 3.00 | - | Parlec | **GM96C4020DC3** | Price |
| CAT40 | .810 | 5.00 | - | Parlec | **GM96C4020DC5** | Price |
| CAT40 | 1.11 | 2.73 | - | Parlec | **GM96C4020DC2** | Price |
| CAT40 | 1.15 | 3.00 | 6.44 | Rapidhold | **TS1021403** | Price |

**Collet Style - DA300**

| Shank | Nose Dia. (in) | Head Length/ Projection(in) | OAL (in.) | Brand Name | Order No. | Price |
|---|---|---|---|---|---|---|
| 1/2 | .560 | 1.50 | 6.81 | Rapidhold | **RH2226401R** | Price |
| 1/2 | .390 | .500 | 6.880 | Briney | **GM30SS050DA300** | Price |
| NMTB30 | .860 | .421 | 4.308 | Briney | **GM30NMTB30DA300** | Price |
| 1/2 | .560 | 1.50 | 6.81 | Rapidhold | **TS1026401** | Price |

## Individual TG Style Collets



**Specifications:**

- TG Collets are produced with silicium chrome steel 46±2
- Precision ground with CNC machines
- Tested with high precision inspection and gaging equipment
- TG Collets achieve greater grip strength than double angle collets
- Clamping range is 1/64”

PARLEC

| Collet Style - TG75 | | | | |
|---|---|---|---|---|
| ID Size (in.) | Order No. | Price | Order No. | Price |
| 3/32 | TE1304008332 | Price | GM9975093 | Price |
| 7/64 | TE1304008764 | Price | GM9975109 | Price |
| 1/8 | TE130400818 | Price | GM9975125 | Price |
| 9/64 | TE1304008964 | Price | GM9975140 | Price |
| 5/32 | TE1304008532 | Price | GM9975156 | Price |
| 11/64 | TE13040081164 | Price | GM9975171 | Price |
| 3/16 | TE1304008316 | Price | GM9975187 | Price |
| 13/64 | TE13040081364 | Price | GM9975203 | Price |
| 7/32 | TE1304008732 | Price | GM9975218 | Price |
| 15/64 | TE13040081564 | Price | GM9975234 | Price |
| 1/4 | TE130400814 | Price | GM9975250 | Price |
| 17/64 | TE13040081764 | Price | GM9975265 | Price |
| 9/32 | TE1304008932 | Price | GM9975281 | Price |
| 19/64 | TE13040081964 | Price | GM9975296 | Price |
| 5/16 | TE1304008516 | Price | GM9975312 | Price |
| 21/64 | TE13040082164 | Price | GM9975328 | Price |
| 11/32 | TE13040081132 | Price | GM9975343 | Price |
| 23/64 | TE13040082364 | Price | GM9975359 | Price |
| 3/8 | TE1304008838 | Price | GM9975375 | Price |
| 25/64 | TE13040082564 | Price | GM9975390 | Price |
| 13/32 | TE13040081332 | Price | GM9975406 | Price |
| 27/64 | TE13040082764 | Price | GM9975421 | Price |
| 7/16 | TE1304008716 | Price | GM9975437 | Price |
| 29/64 | TE13040082964 | Price | GM9975453 | Price |
| 15/32 | TE13040081532 | Price | GM9975468 | Price |
| 31/64 | TE13040083164 | Price | GM9975484 | Price |
| 1/2 | TE130400812 | Price | GM9975500 | Price |
| 33/64 | TE13040083364 | Price | GM9975515 | Price |
| 17/32 | TE13040081732 | Price | GM9975531 | Price |
| 35/64 | TE13040083564 | Price | GM9975546 | Price |
| 9/16 | TE1304008916 | Price | GM9975562 | Price |
| 37/64 | TE13040083764 | Price | GM9975578 | Price |
| 19/32 | TE13040081932 | Price | GM9975593 | Price |
| 39/64 | TE13040083964 | Price | GM9975609 | Price |
| 5/8 | TE130400858 | Price | GM9975625 | Price |
| 41/64 | TE13040084164 | Price | GM9975640 | Price |
| 21/32 | TE13040082132 | Price | GM9975656 | Price |
| 43/64 | TE13040084364 | Price | GM9975671 | Price |
| 11/16 | TE13040081116 | Price | GM9975687 | Price |
| 45/64 | TE13040084564 | Price | GM9975703 | Price |
| 23/32 | TE13040082332 | Price | GM9975718 | Price |
| 47/64 | TE13040084764 | Price | GM9975734 | Price |
| 3/4 | TE130400834 | Price | GM9975750 | Price |

PARLEC

| Collet Style - TG100 | | | | |
|---|---|---|---|---|
| ID Size (in.) | Order No. | Price | Order No. | Price |
| 3/32 | TE1304010332 | Price | GM99100094 | Price |
| 7/64 | TE1304010764 | Price | GM99100110 | Price |
| 1/8 | TE130401018 | Price | GM99100126 | Price |
| 9/64 | TE1304010964 | Price | GM99100141 | Price |
| 5/32 | TE1304010532 | Price | GM99100157 | Price |
| 11/64 | TE13040101164 | Price | GM99100172 | Price |
| 3/16 | TE1304010316 | Price | GM99100188 | Price |
| 13/64 | TE13040101364 | Price | GM99100204 | Price |
| 7/32 | TE1304010732 | Price | GM99100219 | Price |
| 15/64 | TE13040101564 | Price | GM99100235 | Price |
| 1/4 | TE130401014 | Price | GM99100251 | Price |
| 17/64 | TE13040101764 | Price | GM99100266 | Price |
| 9/32 | TE1304010932 | Price | GM99100282 | Price |
| 19/64 | TE13040101964 | Price | GM99100297 | Price |
| 5/16 | TE1304010516 | Price | GM99100313 | Price |
| 21/64 | TE13040102164 | Price | GM99100329 | Price |
| 11/32 | TE13040101132 | Price | GM99100344 | Price |
| 23/64 | TE13040102364 | Price | GM99100360 | Price |
| 3/8 | TE130401038 | Price | GM99100375 | Price |
| 25/64 | TE13040102564 | Price | GM99100390 | Price |
| 13/32 | TE13040101332 | Price | GM99100407 | Price |
| 27/64 | TE13040102764 | Price | GM99100421 | Price |
| 7/16 | TE1304010716 | Price | GM99100437 | Price |
| 29/64 | TE13040102964 | Price | GM99100453 | Price |
| 15/32 | TE13040101532 | Price | GM99100468 | Price |
| 31/64 | TE13040103164 | Price | GM99100484 | Price |

PARLEC

| Collet Style - TG100 | | | | |
|---|---|---|---|---|
| ID Size (in.) | Order No. | Price | Order No. | Price |
| 1/2 | TE130401012 | Price | GM99100500 | Price |
| 33/64 | TE13040103364 | Price | GM99100515 | Price |
| 17/32 | TE13040101732 | Price | GM99100531 | Price |
| 35/64 | TE13040103564 | Price | GM99100546 | Price |
| 9/16 | TE1304010916 | Price | GM99100562 | Price |
| 37/64 | TE13040103764 | Price | GM99100578 | Price |
| 19/32 | TE13040101932 | Price | GM99100593 | Price |
| 39/64 | TE13040103964 | Price | GM99100609 | Price |
| 5/8 | TE130401058 | Price | GM99100625 | Price |
| 41/64 | TE13040104164 | Price | GM99100640 | Price |
| 21/32 | TE13040102132 | Price | GM99100656 | Price |
| 43/64 | TE13040104364 | Price | GM99100671 | Price |
| 11/16 | TE13040101116 | Price | GM99100687 | Price |
| 45/64 | TE13040104564 | Price | GM99100703 | Price |
| 23/32 | TE13040102332 | Price | GM99100718 | Price |
| 47/64 | TE13040104764 | Price | GM99100734 | Price |
| 3/4 | TE130401034 | Price | GM99100750 | Price |
| 49/64 | TE13040104964 | Price | GM99100765 | Price |
| 25/32 | TE13040102532 | Price | GM99100781 | Price |
| 51/64 | TE13040105164 | Price | GM99100796 | Price |
| 13/16 | TE13040101316 | Price | GM99100812 | Price |
| 53/64 | TE13040105364 | Price | GM99100828 | Price |
| 27/32 | TE13040102732 | Price | GM99100843 | Price |
| 55/64 | TE13040105564 | Price | GM99100859 | Price |
| 7/8 | TE130401078 | Price | GM99100875 | Price |
| 57/64 | TE13040105764 | Price | GM99100890 | Price |
| 29/32 | TE13040102932 | Price | GM99100906 | Price |
| 59/64 | TE13040105964 | Price | GM99100921 | Price |
| 15/16 | TE13040101516 | Price | GM99100937 | Price |
| 61/64 | TE13040106164 | Price | GM99100953 | Price |
| 31/32 | TE13040103132 | Price | GM99100968 | Price |
| 63/64 | TE13040106364 | Price | GM99100984 | Price |
| 1 | TE13040101 | Price | GM991001000 | Price |

PARLEC

| Collet Style - TG150 | | | | |
|---|---|---|---|---|
| ID Size (in.) | Order No. | Price | Order No. | Price |
| 1/2 | TE130401112 | Price | GM99150500 | Price |
| 33/64 | TE13040113364 | Price | GM99150515 | Price |
| 17/32 | TE13040111732 | Price | GM99150531 | Price |
| 35/64 | TE13040113564 | Price | GM99150546 | Price |
| 9/16 | TE1304011916 | Price | GM99150562 | Price |
| 37/64 | TE13040113764 | Price | GM99150578 | Price |
| 19/32 | TE13040111932 | Price | GM99150593 | Price |
| 39/64 | TE13040113964 | Price | GM99150609 | Price |
| 5/8 | TE130401158 | Price | GM99150625 | Price |
| 41/64 | TE13040114164 | Price | GM99150640 | Price |
| 21/32 | TE13040112132 | Price | GM99150656 | Price |
| 43/64 | TE13040114364 | Price | GM99150671 | Price |
| 11/16 | TE13040111116 | Price | GM99150687 | Price |
| 45/64 | TE13040114564 | Price | GM99150703 | Price |
| 23/32 | TE13040112332 | Price | GM99150718 | Price |
| 47/64 | TE13040114764 | Price | GM99150734 | Price |
| 3/4 | TE130401134 | Price | GM99150750 | Price |
| 49/64 | TE13040114964 | Price | GM99150765 | Price |
| 25/32 | TE13040112532 | Price | GM99150781 | Price |
| 51/64 | TE13040115164 | Price | GM99150796 | Price |
| 13/16 | TE13040111316 | Price | GM99150812 | Price |
| 53/64 | TE13040115364 | Price | GM99150828 | Price |
| 27/32 | TE13040112732 | Price | GM99150843 | Price |
| 55/64 | TE13040115564 | Price | GM99150859 | Price |
| 7/8 | TE130401178 | Price | GM99150875 | Price |
| 57/64 | TE13040115764 | Price | GM99150890 | Price |
| 29/32 | TE13040112932 | Price | GM99150906 | Price |
| 59/64 | TE13040115964 | Price | GM99150921 | Price |
| 15/16 | TE13040111516 | Price | GM99150937 | Price |
| 61/64 | TE13040116164 | Price | GM99150953 | Price |
| 31/32 | TE13040113132 | Price | GM99150968 | Price |
| 63/64 | TE13040116364 | Price | GM99150984 | Price |
| 1 | TE13040111 | Price | GM991501000 | Price |

## R8 Shank ER Collet Holders

- Run out O.D. - I.D. Max. 0.003
- Superior surface finish Ra 0.0004
- 7/16-20 Drawbar thread



| Collet Style | Nose Dia. (in.) | Head Length/Projection | Order No. | Price |
|---|---|---|---|---|
| ER16 | 1.11 | 1.50 | EH4500503 | Price |
| ER32 | 1.56 | 1.56 | EH4500501 | Price |
| ER40 | 2.75 | 2.75 | EH4500502 | Price |

## Individual Double Angle (DA Style) Collets

- DA collets are produced with silicium chrome steel
- Quenched and tempered RC 46±2
- Precision ground with CNC machines
- Double angle collets may be successfully employed for most routine job assignments



PARLEC

| Collet Style - 100DA | | | | |
|---|---|---|---|---|
| ID Size (in.) | Order No. | Price | Order No. | Price |
| 3/64 | TE1301610364 | Price | GM99100046 | Price |
| 1/16 | TE1301610116 | Price | GM99100062 | Price |
| 5/64 | TE1301610564 | Price | GM99100078 | Price |
| 3/32 | TE1301610332 | Price | GM99100093 | Price |
| 7/64 | TE1301610764 | Price | GM99100109 | Price |
| 1/8 | TE130161018 | Price | GM99100125 | Price |
| 9/64 | TE1301610964 | Price | GM99100140 | Price |
| 5/32 | TE1301610532 | Price | GM99100156 | Price |
| 11/64 | TE13016101164 | Price | GM99100171 | Price |
| 3/16 | TE1301610316 | Price | GM99100187 | Price |
| 13/64 | TE13016101364 | Price | GM99100203 | Price |
| 7/32 | TE1301610732 | Price | GM99100218 | Price |
| 15/64 | TE13016101564 | Price | GM99100234 | Price |
| 1/4 | TE130161014 | Price | GM99100250 | Price |
| 17/64 | TE13016101764 | Price | GM99100265 | Price |
| 9/32 | TE1301610932 | Price | GM99100281 | Price |
| 19/64 | TE13016101964 | Price | GM99100296 | Price |
| 5/16 | TE1301610516 | Price | GM99100312 | Price |
| 21/64 | TE13016102164 | Price | GM99100328 | Price |
| 11/32 | TE13016101132 | Price | GM99100343 | Price |
| 23/64 | TE13016102364 | Price | GM99100359 | Price |
| 3/8 | TE130161038 | Price | GM99100376 | Price |
| 25/64 | TE13016102564 | Price | GM99100391 | Price |
| 27/64 | TE13016102764 | Price | GM99100422 | Price |
| 7/16 | TE1301610716 | Price | GM99100438 | Price |
| 29/64 | TE13016102964 | Price | GM99100454 | Price |
| 15/32 | TE13016101532 | Price | GM99100469 | Price |
| 31/64 | TE13016103164 | Price | GM99100485 | Price |
| 1/2 | TE130161012 | Price | GM99100501 | Price |
| 17/32 | TE13016101732 | Price | GM99100532 | Price |
| 35/64 | TE13016103564 | Price | GM99100547 | Price |
| 9/16 | TE1301610916 | Price | GM99100563 | Price |
| 13/32 | TE13016101332 | Price | - | - |
| 33/64 | TE13016103364 | Price | - | - |

PARLEC

| Collet Style - 180DA | | | | |
|---|---|---|---|---|
| ID Size (in.) | Order No. | Price | Order No. | Price |
| 3/64 | TE1301618364 | Price | GM99180046 | Price |
| 1/16 | TE1301618116 | Price | GM99180062 | Price |
| 5/64 | - | - | GM99180078 | Price |
| 3/32 | TE1301618332 | Price | GM99180093 | Price |
| 7/64 | TE1301618764 | Price | GM99180109 | Price |
| 1/8 | TE130161818 | Price | GM99180125 | Price |
| 9/64 | TE1301618964 | Price | GM99180140 | Price |
| 5/32 | TE1301618532 | Price | GM99180156 | Price |
| 11/64 | TE13016181164 | Price | GM99180171 | Price |
| 3/16 | TE1301618316 | Price | GM99180187 | Price |
| 13/64 | TE13016181364 | Price | GM99180203 | Price |
| 7/32 | TE1301618732 | Price | GM99180218 | Price |
| 15/64 | TE13016181564 | Price | GM99180234 | Price |
| 1/4 | TE130161814 | Price | GM99180250 | Price |
| 17/64 | TE13016181764 | Price | GM99180265 | Price |
| 9/32 | TE1301618932 | Price | GM99180281 | Price |
| 19/64 | TE13016181964 | Price | GM99180296 | Price |
| 5/16 | TE1301618516 | Price | GM99180312 | Price |
| 21/64 | TE13016182164 | Price | GM99180328 | Price |
| 11/32 | TE13016181132 | Price | GM99180343 | Price |
| 23/64 | TE13016182364 | Price | GM99180359 | Price |
| 3/8 | TE130161838 | Price | GM99180375 | Price |
| 25/64 | TE13016182564 | Price | GM99180390 | Price |
| 13/32 | TE13016181332 | Price | GM99180406 | Price |
| 27/64 | TE13016182764 | Price | GM99180421 | Price |

## Morse Taper Shank ER Collet Holder

- Made of high grade tool steel
- Hardened and precision ground
- Meets or exceeds Federal Specs.



| Collet Style | Taper | Nose Dia. (in.) | Head Length/ Projection (in.) | Order No. | Price |
|---|---|---|---|---|---|
| ER32 | 3MT | 2.84 | 4.86 | EH4501813 | Price |
| ER40 | 4MT | 2.84 | 4.86 | EH4501815 | Price |
| ER40 | 5MT | 2.84 | 5.29 | EH4501816 | Price |
| ER40 | 3MT | 2.48 | 3.00 | EH4501814 | Price |

PARLEC

| Collet Style - 180DA | | | | |
|---|---|---|---|---|
| ID Size (in.) | Order No. | Price | Order No. | Price |
| 7/16 | TE1301618716 | Price | GM99180437 | Price |
| 29/64 | TE13016182964 | Price | GM99180453 | Price |
| 15/32 | TE13016181532 | Price | GM99180468 | Price |
| 31/64 | TE13016183164 | Price | GM99180484 | Price |
| 1/2 | TE130161812 | Price | GM99180500 | Price |
| 33/64 | TE13016183364 | Price | GM99180515 | Price |
| 17/32 | TE13016181732 | Price | GM99180531 | Price |
| 35/64 | TE13016183564 | Price | GM99180546 | Price |
| 9/16 | TE1301618916 | Price | GM99180562 | Price |
| 37/64 | TE13016183764 | Price | GM99180578 | Price |
| 19/32 | TE1301618193 | Price | GM99180593 | Price |
| 39/64 | TE13016183964 | Price | GM99180609 | Price |
| 5/8 | TE130161858 | Price | GM99180625 | Price |
| 41/64 | TE13016184164 | Price | GM99180640 | Price |
| 21/32 | TE13016182132 | Price | GM99180656 | Price |
| 43/64 | TE13016184364 | Price | GM99180671 | Price |
| 11/16 | TE13016181116 | Price | GM99180687 | Price |
| 45/64 | TE13016184564 | Price | GM99180703 | Price |
| 23/32 | TE13016182332 | Price | GM99180718 | Price |
| 47/64 | TE13016184764 | Price | GM99180734 | Price |
| 3/4 | TE130161834 | Price | GM99180750 | Price |

PARLEC

| Collet Style - 200DA | | | | |
|---|---|---|---|---|
| ID Size (in.) | Order No. | Price | Order No. | Price |
| 3/64 | TE1301620364 | Price | GM99200046 | Price |
| 1/16 | TE1301620116 | Price | GM99200062 | Price |
| 5/64 | TE1301620564 | Price | GM99200078 | Price |
| 3/32 | TE1301620332 | Price | GM99200093 | Price |
| 7/64 | TE1301620764 | Price | GM99200109 | Price |
| 1/8 | TE130162018 | Price | GM99200125 | Price |
| 9/64 | TE1301620964 | Price | GM99200140 | Price |
| 5/32 | TE1301620532 | Price | GM99200156 | Price |
| 11/64 | TE13016201164 | Price | GM99200171 | Price |
| 3/16 | TE1301620316 | Price | GM99200187 | Price |
| 13/64 | TE13016201364 | Price | GM99200203 | Price |
| 7/32 | TE1301620732 | Price | GM99200218 | Price |
| 15/64 | TE13016201564 | Price | GM99200234 | Price |
| 1/4 | TE130162014 | Price | GM99200250 | Price |
| 17/64 | TE13016201764 | Price | GM99200265 | Price |
| 9/32 | TE1301620932 | Price | GM99200281 | Price |
| 19/64 | TE13016201964 | Price | GM99200296 | Price |
| 5/16 | TE1301620516 | Price | GM99200312 | Price |
| 21/64 | TE13016202164 | Price | GM99200328 | Price |
| 11/32 | TE13016201132 | Price | GM99200343 | Price |
| 23/64 | TE13016202364 | Price | GM99200359 | Price |
| 3/8 | TE130162038 | Price | GM99200375 | Price |
| 25/64 | - | - | GM99200390 | Price |

PARLEC

| Collet Style - 300DA | | | | |
|---|---|---|---|---|
| ID Size (in.) | Order No. | Price | Order No. | Price |
| 1/32 | TE13300031 | Price | - | - |
| 3/64 | TE1301630364 | Price | GM99300046 | Price |
| 1/16 | TE1301630116 | Price | GM99300062 | Price |
| 3/32 | TE1301630332 | Price | GM99300093 | Price |
| 5/64 | TE1301630564 | Price | GM99300078 | Price |
| 7/64 | TE1301630764 | Price | GM99300109 | Price |
| 1/8 | TE130163018 | Price | GM99300125 | Price |
| 9/64 | TE1301630964 | Price | GM99300140 | Price |
| 11/64 | TE13016301164 | Price | GM99300171 | Price |
| 5/32 | TE1301630532 | Price | GM99300156 | Price |
| 3/16 | TE1301630316 | Price | GM99300187 | Price |
| 13/64 | TE13016301364 | Price | GM99300203 | Price |
| 7/32 | TE1301630732 | Price | GM99300218 | Price |
| 15/64 | TE13016301564 | Price | GM99300234 | Price |
| 1/4 | TE130163014 | Price | GM99300250 | Price |

## NMTB Shank ER Collet Holder

- Run out O.D. - I.D. Max. 0.003
- Mass symmetrical design
- Superior surface finish Ra 0.0004
- Taper accuracy DIn standard 85% fitness



| Collet Style - ER16 | | | | |
|---|---|---|---|---|
| Nose Dia. (in.) | Head Length/Projection (in.) | Brand Name | Order No. | Price |
| 1.11 | 6.00 | ETM | GM70690074 | Price |
| 1.11 | 6.00 | Quality Import | GM80160503 | Price |

| Collet Style - ER32 | | | | |
|---|---|---|---|---|
| Nose Dia. (in.) | Head Length/Projection (in.) | Brand Name | Order No. | Price |
| 2.00 | 2.12 | Iscar | EH4548032 | Price |

| Collet Style - ER40 | | | | |
|---|---|---|---|---|
| Nose Dia. (in.) | Head Length/Projection (in.) | Brand Name | Order No. | Price |
| 2.48 | 2.12 | Iscar | EH4548087 | Price |
| 2.48 | 2.25 | Iscar | EH4501735 | Price |

## RAPIDHOLD® BT40 ER Style Collet Holders



- Produced according to AT3 specifications
- Tools are made of a high quality alloy steel
- Collet seat taper T.I.R. greater than 0.0002”
- Through the spindle coolant capability
- Dynamically balanced to G6.5 @ 15,000 RPM
- All collet chucks are supplied with depth set screws
- All balanced tools are supplied with QA certificate

| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
|---|---|---|---|---|
| ER16 | 1.11 | 4.72 | **RH2224201R** | Price |
| ER25 | 1.57 | 2.75 | **RH2224203R** | Price |
| ER25 | 1.66 | 4.72 | **RH2224205R** | Price |
| ER32 | 1.97 | 2.75 | **RH2224207R** | Price |
| ER32 | 1.97 | 4.72 | **RH2224209R** | Price |
| ER40 | 2.49 | 3.15 | **RH2224212R** | Price |
| ER40 | 2.49 | 4.72 | **RH2224214R** | Price |

## BT40 ER Style Collet Holders



- Balanced to 25,000 RPM at G2.5 tolerance
- They are individually lab tested for accuracy and balance and come with their individual performance report
- Techniks holders achieve 0.0001” or less T.I.R. as measured from the taper to the collet pocket

| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
|---|---|---|---|---|
| ER16 | 1.11 | 70mm | **TE1216151** | Price |
| ER16 | 1.11 | 100mm | **TE1216153** | Price |
| ER16 | 1.11 | 125mm | **TE1216155** | Price |
| ER16 | 1.11 | 150mm | **TE1216157** | Price |
| ER16 | 1.11 | 180mm | **TE1216158** | Price |
| ER20 | 1.34 | 70mm | **TE1216159** | Price |
| ER20 | 1.34 | 100mm | **TE1216162** | Price |
| ER20 | 1.34 | 135mm | **TE1216165** | Price |
| ER20 | 1.34 | 150mm | **TE1216167** | Price |
| ER25 | 1.57 | 70mm | **TE1216169** | Price |
| ER25 | 1.57 | 100mm | **TE1216171** | Price |
| ER25 | 1.57 | 150mm | **TE1216175** | Price |
| ER32 | 1.97 | 70mm | **TE1216177** | Price |
| ER32 | 1.97 | 100mm | **TE1216179** | Price |
| ER32 | 1.97 | 150mm | **TE1216181** | Price |
| ER40 | 2.49 | 80mm | **TE1216183** | Price |
| ER40 | 2.49 | 100mm | **TE1216185** | Price |
| ER40 | 2.49 | 150mm | **TE1216189** | Price |

## BT50 Shank ER Collet Holders



- Case hardened to 58-62 HRc
- Pre-balanced to G2.5 @ 22,000 RPM’s
- T.I.R. from the collet cavity to the holder taper 0.0001” or better
- Lot Numbers for lot traceability
- Through the spindle coolant or through the flange version available
- BT & CAT+ have Hi-Q clamping nut included
- AT3 or beter tapers guaranteed
- Superior surface finish at 0.25Ra for better fit and accuracy
- Swiss made to ISO 90001
- Big Plus System - Licensed by Big Daishowa

| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
|---|---|---|---|---|
| ER16 | 1.11 | 3.93 | **GM20415011650** | Price |
| ER16 | 1.11 | 3.93 | **GM20415011653** | Price |
| ER16 | 1.11 | 6.30 | **GM20415011680** | Price |
| ER16 | 1.11 | 6.30 | **GM20415011683** | Price |
| ER20 | 1.34 | 3.93 | **GM20415012053** | Price |
| ER20 | 1.34 | 3.93 | **GM20415012050** | Price |
| ER25 | 1.57 | 3.93 | **GM20415012553** | Price |
| ER25 | 1.57 | 3.93 | **GM20415012550** | Price |
| ER25 | 1.57 | 6.30 | **GM20415012583** | Price |
| ER25 | 1.57 | 6.30 | **GM20415012580** | Price |
| ER32 | 1.97 | 3.93 | **GM20415013253** | Price |
| ER32 | 1.97 | 3.93 | **GM20415013250** | Price |
| ER32 | 1.97 | 6.30 | **GM20415013283** | Price |
| ER40 | 2.49 | 3.93 | **GM20415014053** | Price |
| ER40 | 2.49 | 6.30 | **GM20415014083** | Price |

## BT40 Shank ER Collet Holders



- Case hardened to 58-62 HRc
- Pre-balanced to G2.5 @ 22,000 RPM’s
- T.I.R. from the collet cavity to the holder taper 0.0001” or better
- Lot Numbers for lot traceability
- Through the spindle coolant or through the flange version available
- BT & CAT+ have Hi-Q clamping nut included
- AT3 or beter tapers guaranteed
- Superior surface finish at 0.25Ra for better fit and accuracy
- Swiss made to ISO 90001
- Big Plus System - Licensed by Big Daishowa

| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
|---|---|---|---|---|
| ER11 | .750 | 3.93 | **GM20414011150** | Price |
| ER11 | .750 | 6.30 | **GM20414011180** | Price |
| ER16 | 1.11 | 2.75 | **GM20414011630** | Price |
| ER16 | 1.11 | 2.75 | **GM20414011633** | Price |
| ER16 | 1.11 | 3.93 | **GM20414011653** | Price |
| ER16 | 1.11 | 3.93 | **GM20414011650** | Price |
| ER16 | 1.11 | 6.30 | **GM20414011683** | Price |
| ER16 | 1.11 | 6.30 | **GM20414011680** | Price |
| ER16 | 1.11 | 8.66 | **GM2088411305** | Price |
| ER16 | 1.11 | 10.20 | **GM2088411309** | Price |
| ER16 | 1.11 | 11.80 | **GM2088411313** | Price |
| ER16 | 1.11 | 12.60 | **GM2088411315** | Price |
| ER16 | 1.11 | 14.17 | **GM2088411319** | Price |
| ER16 | 1.11 | 15.75 | **GM2088411323** | Price |
| ER20 | 1.34 | 2.75 | **GM20414012030** | Price |
| ER20 | 1.34 | 2.75 | **GM20414012033** | Price |
| ER20 | 1.34 | 3.93 | **GM20414012053** | Price |
| ER20 | 1.34 | 3.93 | **GM20414012050** | Price |
| ER20 | 1.34 | 6.30 | **GM20414012080** | Price |
| ER20 | 1.34 | 6.30 | **GM20414012083** | Price |
| ER25 | 1.57 | 2.75 | **GM20414012530** | Price |
| ER25 | 1.57 | 2.75 | **GM20414012533** | Price |
| ER25 | 1.57 | 3.93 | **GM20414012550** | Price |
| ER25 | 1.57 | 3.93 | **GM20414012553** | Price |
| ER25 | 1.57 | 6.30 | **GM20414012580** | Price |
| ER25 | 1.57 | 6.30 | **GM20414012583** | Price |
| ER32 | 1.97 | 2.75 | **GM20414013233** | Price |
| ER32 | 1.97 | 2.75 | **GM20414013230** | Price |
| ER32 | 1.97 | 3.93 | **GM20414013253** | Price |
| ER32 | 1.97 | 3.93 | **GM20414013250** | Price |
| ER32 | 1.97 | 6.30 | **GM20414013283** | Price |
| ER32 | 1.97 | 6.30 | **GM20414013280** | Price |
| ER32 | 1.97 | 8.90 | **GM2088411605** | Price |
| ER32 | 1.97 | 12.80 | **GM2088411615** | Price |
| ER40 | 2.49 | 3.93 | **GM20414014053** | Price |
| ER40 | 2.49 | 3.93 | **GM20414014050** | Price |
| ER40 | 2.49 | 6.30 | **GM20414014083** | Price |
| ER40 | 2.49 | 6.30 | **GM20414014080** | Price |

## RAPIDHOLD® BT50 ER Style Collet Holders



- Produced according to AT3 specifications
- Tools are made of a high quality alloy steel
- Collet seat taper T.I.R. greater than 0.0002”
- Through the spindle coolant capability
- Dynamically balanced to G6.5 @ 15,000 RPM
- All collet chucks are supplied with depth set screws
- All balanced tools are supplied with QA certificate

| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
|---|---|---|---|---|
| ER16 | 1.11 | 3.93 | **RH2225201R** | Price |
| ER16 | 1.11 | 5.90 | **RH2225202R** | Price |
| ER32 | 1.97 | 2.75 | **RH2225203R** | Price |
| ER40 | 2.49 | 3.15 | **RH2225204R** | Price |

## BT50 Shank ER Collet Holders

- Balanced to 25,000 RPM at G2.5 tolerance
- They are individually lab tested for accuracy and balance and come with their individual performance report
- Techniks holders achieve 0.0001" or less T.I.R. as measured from the taper to the collet pocket



| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
|---|---|---|---|---|
| ER16 | 1.11 | 70mm | **TE1216251** | Price |
| ER16 | 1.11 | 90mm | **TE1216252** | Price |
| ER16 | 1.11 | 105mm | **TE1216253** | Price |
| ER16 | 1.11 | 135mm | **TE1216254** | Price |
| ER16 | 1.11 | 150mm | **TE1216255** | Price |
| ER20 | 1.34 | 90mm | **TE1216263** | Price |
| ER20 | 1.34 | 105mm | **TE1216265** | Price |
| ER20 | 1.34 | 135mm | **TE1216267** | Price |
| ER20 | 1.34 | 165mm | **TE1216271** | Price |
| ER25 | 1.57 | 105mm | **TE1216275** | Price |
| ER25 | 1.57 | 135mm | **TE1216277** | Price |
| ER25 | 1.57 | 165mm | **TE1216279** | Price |
| ER32 | 1.97 | 80mm | **TE1216281** | Price |
| ER32 | 1.97 | 120mm | **TE1216283** | Price |
| ER32 | 1.97 | 150mm | **TE1216284** | Price |
| ER40 | 2.49 | 80mm | **TE1216285** | Price |
| ER40 | 2.49 | 135mm | **TE1216289** | Price |

## RAPIDHOLD CAT40 ER Style Collet Holders

- Taper Shank ground to AT3 accuracy or better
- Taper to Taper Runout <0.0002"
- Balanced G2.5 @ 20,000 RPM
- Coolant thru the spindle and DIN AD+B thru the flange capable



| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
|---|---|---|---|---|
| ER11 | .79 | 2.50 | **RH2221197R** | Price |
| ER11 | .79 | 4.00 | **RH2221198R** | Price |
| ER11 | .79 | 6.00 | **RH2221199R** | Price |
| ER16 | 1.11 | 2.50 | **RH2221201R** | Price |
| ER16 | 1.11 | 4.00 | **RH2221202R** | Price |
| ER16 | 1.11 | 5.00 | **RH2221203R** | Price |
| ER20 | 1.34 | 6.00 | **RH2221206R** | Price |
| ER16 | 1.11 | 6.00 | **RH2221229R** | Price |
| ER16 | 1.11 | 8.00 | **RH2221230R** | Price |
| ER20 | 1.34 | 2.50 | **RH2221204R** | Price |
| ER20 | 1.34 | 4.00 | **RH2221205R** | Price |
| ER20 | 1.34 | 8.00 | **RH2221234R** | Price |
| ER25 | 1.66 | 2.50 | **RH2221207R** | Price |
| ER25 | 1.66 | 4.00 | **RH2221208R** | Price |
| ER25 | 1.66 | 6.00 | **RH2221209R** | Price |
| ER25 | 1.66 | 8.00 | **RH2221237R** | Price |
| ER32 | 1.97 | 2.75 | **RH2221210R** | Price |
| ER32 | 1.97 | 4.00 | **RH2221211R** | Price |
| ER32 | 1.97 | 6.00 | **RH2221212R** | Price |
| ER32 | 1.97 | 8.00 | **RH2221240R** | Price |
| ER40 | 2.49 | 3.00 | **RH2221213R** | Price |
| ER40 | 2.49 | 6.00 | **RH2221214R** | Price |
| ER40 | 2.49 | 8.00 | **RH2221244R** | Price |

## CAT40 ER Style Collet Holders

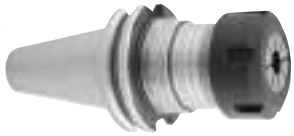
- Balance rings
- Run out O.D. - I.D. Max. 0.003
- Mass symmetrical design
- For high spindle speed from 20,000 RPM
- Superior surface finish Ra 0.0004
- Taper accuracy DIn standard 85% fitness



| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
|---|---|---|---|---|
| ER16 | 1.11 | 2.75 | **GM66304016** | Price |
| ER16 | 1.11 | 3.93 | **GM66304116** | Price |
| ER16 | 1.11 | 5.90 | **GM66304216** | Price |
| ER32 | 1.97 | 2.56 | **GM66304032** | Price |
| ER32 | 1.97 | 4.00 | **GM66304132** | Price |
| ER32 | 1.97 | 6.00 | **GM66304232** | Price |
| ER40 | 2.49 | 3.35 | **GM66304040** | Price |
| ER40 | 2.49 | 4.00 | **GM66304140** | Price |

## CAT40 Shank ER Collet Holders

- Case hardened to 58-62 HRc
- Pre-balanced to G2.5 @ 22,000 RPM's
- T.I.R. from the collet cavity to the holder taper 0.0001" or better
- Lot Numbers for lot traceability
- Through the spindle coolant or through the flange version available
- BT & CAT+ have Hi-Q clamping nut included
- AT3 or beter tapers guaranteed
- Superior surface finish at 0.25Ra for better fit and accuracy
- Swiss made to ISO 90001
- Big Plus System - Licensed by Big Daishowa



| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
|---|---|---|---|---|
| ER11 | .79 | 3.00 | **GM20434011134** | Price |
| ER11 | .79 | 3.00 | **GM20434011131** | Price |
| ER11 | .79 | 6.00 | **GM20434011174** | Price |
| ER11 | .79 | 6.00 | **GM20434011171** | Price |
| ER16 | 1.11 | 3.00 | **GM20434011634** | Price |
| ER16 | 1.11 | 3.00 | **GM20434011631** | Price |
| ER16 | 1.11 | 4.00 | **GM20434011654** | Price |
| ER16 | 1.11 | 4.00 | **GM20434011651** | Price |
| ER16 | 1.11 | 6.00 | **GM20434011671** | Price |
| ER16 | 1.11 | 6.00 | **GM20434011674** | Price |
| ER16 | 1.11 | 8.00 | **GM20884313031** | Price |
| ER16 | 1.11 | 12.00 | **GM20884313131** | Price |
| ER16 | 1.11 | 14.00 | **GM20884313181** | Price |
| ER20 | 1.34 | 3.00 | **GM20434012031** | Price |
| ER20 | 1.34 | 4.00 | **GM20434012051** | Price |
| ER20 | 1.34 | 6.00 | **GM20434012071** | Price |
| ER25 | 1.66 | 4.00 | **GM20434012551** | Price |
| ER25 | 1.66 | 6.00 | **GM20434012571** | Price |
| ER25 | 1.66 | 6.00 | **GM20434012574** | Price |
| ER32 | 1.97 | 3.00 | **GM20434013231** | Price |
| ER32 | 1.97 | 4.00 | **GM20434013254** | Price |
| ER32 | 1.97 | 4.00 | **GM20434013251** | Price |
| ER32 | 1.97 | 5.00 | **GM20434013261** | Price |
| ER32 | 1.97 | 6.00 | **GM20434013274** | Price |
| ER32 | 1.97 | 6.00 | **GM20434013271** | Price |
| ER32 | 1.97 | 10.00 | **GM20884316081** | Price |
| ER32 | 1.97 | 14.00 | **GM20885316181** | Price |
| ER40 | 2.49 | 3.50 | **GM20434014044** | Price |
| ER40 | 2.49 | 3.50 | **GM20434014041** | Price |
| ER40 | 2.49 | 6.00 | **GM20434014074** | Price |
| ER40 | 2.49 | 6.00 | **GM20434014071** | Price |

## CAT40 ER Style Collet Holders

- Balanced to 25,000 RPM at G2.5 tolerance
- They are individually lab tested for accuracy and balance and come with their individual performance report
- Techniks holders achieve 0.0001" or less T.I.R. as measured from the taper to the collet pocket



| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
|---|---|---|---|---|
| ER16 | 1.11 | 2.75 | **TE1222225** | Price |
| ER16 | 1.11 | 4.00 | **TE1222227** | Price |
| ER16 | 1.11 | 6.00 | **TE1222231** | Price |
| ER16 | 1.11 | 8.00 | **TE1222233** | Price |
| ER20 | 1.34 | 2.75 | **TE1222235** | Price |
| ER20 | 1.34 | 4.00 | **TE1222237** | Price |
| ER20 | 1.34 | 6.00 | **TE1222239** | Price |
| ER25 | 1.66 | 2.50 | **TE122224325** | Price |
| ER25 | 1.66 | 2.75 | **TE1222243** | Price |
| ER25 | 1.66 | 4.00 | **TE1222245** | Price |

| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
|---|---|---|---|---|
| ER25 | 1.66 | 6.00 | **TE1222247** | Price |
| ER25 | 1.66 | 8.00 | **TE1222251** | Price |
| ER32 | 1.97 | 2.75 | **TE1222253** | Price |
| ER32 | 1.97 | 4.00 | **TE1222255** | Price |
| ER32 | 1.97 | 6.00 | **TE1222257** | Price |
| ER32 | 1.97 | 8.00 | **TE1222259** | Price |
| ER40 | 2.49 | 3.15 | **TE1222261** | Price |
| ER40 | 2.49 | 4.00 | **TE1222263** | Price |
| ER40 | 2.49 | 6.00 | **TE1222265** | Price |

## RAPIDHOLD CAT50 ER Style Collet Holders

- Taper Shank ground to AT3 accuracy or better
- Taper to Taper Runout <0.0002"
- Balanced G2.5 @ 15,000 RPM
- Coolant thru the spindle and DIN AD+B thru the flange capable



| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
|---|---|---|---|---|
| ER16 | 1.11 | 4.00 | **RH2222201R** | Price |
| ER16 | 1.11 | 6.00 | **RH2222202R** | Price |
| ER16 | 1.11 | 8.00 | **RH2222230R** | Price |
| ER20 | 1.34 | 4.00 | **RH2222203R** | Price |
| ER20 | 1.34 | 6.00 | **RH2222204R** | Price |
| ER20 | 1.34 | 8.00 | **RH2222235R** | Price |
| ER25 | 1.66 | 4.00 | **RH2222205R** | Price |
| ER25 | 1.66 | 8.00 | **RH2222239R** | Price |

| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
|---|---|---|---|---|
| ER25 | 1.97 | 6.00 | **RH2222206R** | Price |
| ER32 | 1.97 | 4.00 | **RH2222207R** | Price |
| ER32 | 1.97 | 6.00 | **RH2222208R** | Price |
| ER32 | 1.97 | 8.00 | **RH2222243R** | Price |
| ER32 | 1.97 | 12.00 | **RH2222244R** | Price |
| ER40 | 2.49 | 4.00 | **RH2222209R** | Price |
| ER40 | 2.49 | 6.00 | **RH2222210R** | Price |
| ER40 | 2.49 | 8.00 | **RH2222249R** | Price |

## CAT50 ER Style Collet Holders

- Balance rings
- Run out O.D. - I.D. Max. 0.003
- Mass symmetrical design
- For high spindle speed from 20,000 RPM
- Superior surface finish Ra 0.0004
- Taper accuracy DIn standard 85% fitness

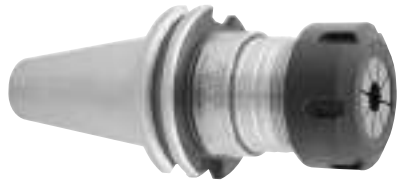


| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
|---|---|---|---|---|
| ER16 | 1.11 | 5.90 | **GM66305216** | Price |
| ER16 | 1.11 | 8.00 | **GM664501617** | Price |
| ER16 | 2.09 | 3.93 | **GM66305116** | Price |
| ER20 | 1.34 | 3.93 | **GM664501491** | Price |
| ER20 | 1.34 | 5.90 | **GM664501496** | Price |
| ER20 | 1.34 | 8.00 | **GM664501618** | Price |
| ER25 | 1.66 | 6.00 | **GM664501620** | Price |
| ER25 | 1.66 | 6.00 | **GM664505093** | Price |
| ER25 | 1.66 | 8.00 | **GM664501621** | Price |
| ER25 | 1.97 | 4.00 | **GM664501619** | Price |
| ER32 | 1.97 | .374 | **GM664501654** | Price |
| ER32 | 1.97 | 4.00 | **GM66305032** | Price |

| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
|---|---|---|---|---|
| ER32 | 1.97 | 4.00 | **GM664501607** | Price |
| ER32 | 1.97 | 6.00 | **GM66305132** | Price |
| ER32 | 1.97 | 6.00 | **GM664501637** | Price |
| ER32 | 1.97 | 8.00 | **GM664509213** | Price |
| ER40 | 1.97 | .374 | **GM664501660** | Price |
| ER40 | 2.49 | 4.00 | **GM66305040** | Price |
| ER40 | 2.49 | 4.00 | **GM664501608** | Price |
| ER40 | 2.49 | 6.00 | **GM664501562** | Price |
| ER40 | 2.49 | 6.00 | **GM66305140** | Price |
| ER40 | 2.49 | 8.00 | **GM664501558** | Price |
| ER50 | 3.07 | 4.00 | **GM664501493** | Price |

## CAT50 Shank ER Collet Holders

- Case hardened to 58-62 HRc
- Pre-balanced to G2.5 @ 22,000 RPM's
- T.I.R. from the collet cavity to the holder taper 0.0001" or better
- Lot Numbers for lot traceability
- Through the spindle coolant or through the flange version available
- BT & CAT+ have Hi-Q clamping nut included
- AT3 or beter tapers guaranteed
- Superior surface finish at 0.25Ra for better fit and accuracy
- Swiss made to ISO 90001
- Big Plus System - Licensed by Big Daishowa



| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
|---|---|---|---|---|
| ER16 | 1.11 | 4.00 | **GM20435011651** | Price |
| ER16 | 1.11 | 4.00 | **GM20435011654** | Price |
| ER16 | 1.11 | 6.00 | **GM20435011674** | Price |
| ER16 | 1.11 | 6.00 | **GM20435011671** | Price |
| ER16 | 1.11 | 8.00 | **GM20885313031** | Price |
| ER20 | 1.34 | 4.00 | **GM20435012051** | Price |
| ER20 | 1.34 | 4.00 | **GM20435012054** | Price |
| ER20 | 1.34 | 6.00 | **GM20435012074** | Price |
| ER20 | 1.34 | 6.00 | **GM20435012071** | Price |
| ER25 | 1.57 | 4.00 | **GM20435012554** | Price |
| ER25 | 1.57 | 6.00 | **GM20435012574** | Price |

| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
|---|---|---|---|---|
| ER25 | 1.66 | 4.00 | **GM20435012551** | Price |
| ER25 | 1.66 | 6.00 | **GM20435012571** | Price |
| ER32 | 1.97 | 4.00 | **GM20435013254** | Price |
| ER32 | 1.97 | 4.00 | **GM20435013251** | Price |
| ER32 | 1.97 | 6.00 | **GM20435013271** | Price |
| ER32 | 1.97 | 6.00 | **GM20435013274** | Price |
| ER32 | 1.97 | 10.00 | **GM20885316081** | Price |
| ER40 | 2.36 | 6.00 | **GM20435014074** | Price |
| ER40 | 2.49 | 4.00 | **GM20435014054** | Price |
| ER40 | 2.49 | 4.00 | **GM20435014051** | Price |
| ER40 | 2.49 | 6.00 | **GM20435014071** | Price |

## CAT50 ER Style Collet Holders

- Balanced to 25,000 RPM at G2.5 tolerance
- They are individually lab tested for accuracy and balance and come with their individual performance report
- Techniks holders achieve 0.0001" or less T.I.R. as measured from the taper to the collet pocket



| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
|---|---|---|---|---|
| ER16 | 1.11 | 4.00 | **TE1222281** | Price |
| ER16 | 1.11 | 6.00 | **TE1222285** | Price |
| ER16 | 1.11 | 8.00 | **TE1222287** | Price |
| ER20 | 1.34 | 4.00 | **TE1222291** | Price |
| ER20 | 1.34 | 6.00 | **TE1222293** | Price |
| ER20 | 1.34 | 8.00 | **TE1222295** | Price |
| ER25 | 1.97 | 4.00 | **TE1222303** | Price |
| ER25 | 1.97 | 6.00 | **TE1222305** | Price |

| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
|---|---|---|---|---|
| ER25 | 1.97 | 8.00 | **TE1222307** | Price |
| ER25 | 1.97 | 9.00 | **TE12223079** | Price |
| ER32 | 1.97 | 4.00 | **TE1222311** | Price |
| ER32 | 1.97 | 6.00 | **TE1222313** | Price |
| ER32 | 1.97 | 8.00 | **TE1222317** | Price |
| ER40 | 2.49 | 4.00 | **TE1222321** | Price |
| ER40 | 2.49 | 6.00 | **TE1222325** | Price |
| ER50 | 3.07 | 8.00 | **TE1222337** | Price |

## Zero-Z ER Style Collet Holders

- The Zero-Z is pre-balanced to G2.5 at 22,000 rpm
- For added clamping force, the Zero-Z comes standard with REGO-FIX'S unique AX Hi-Q clamping nut.



| Shank | Nose Dia. (in.) | Projection (in.) | Collet Style | Order No. | Price |
|---|---|---|---|---|---|
| BT30 | - | .866 | ERA20 | **GM20213012007** | Price |
| BT40 | - | 1.06 | ER32 | **GM20214013207** | Price |
| CAT40 | 1.58 | .750 | ER32 | **GM20234013200** | Price |
| CAT50 | 1.97 | .750 | ER40 | **GM20235014007** | Price |

**F.O.B. Factory**

## RAPIDHOLD Straight Shank ER Collet Holders

- Produced according to AT3 specifications
- Tools are made of a high quality alloy steel
- Collet seat taper T.I.R. greater than 0.0002”
- Through the spindle coolant capability
- Dynamically balanced to G6.5 @ 15,000 RPM
- All collet chucks are supplied with depth set screws
- All balanced tools are supplied with QA certificate



| Type - 1” Straight Shank Collet Chuck | | | | |
|---|---|---|---|---|
| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
| ER20 | 1.38 | 1.42 | **RH2226203R** | Price |
| ER25 | 1.66 | 1.57 | **RH2226204R** | Price |
| ER32 | 1.97 | 2.03 | **RH2226207R** | Price |
| ER40 | 2.48 | 2.56 | **RH2226208R** | Price |
| ER40 | 2.48 | 2.56 | **RH2226209R** | Price |

| Type - 1/2” Straight Shank Collet chuck | | | | |
|---|---|---|---|---|
| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
| ER11 | .630 | 1.27 | **RH2226201R** | Price |

| Type - 1-1/4” Straight Shank Collet Chuck | | | | |
|---|---|---|---|---|
| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
| ER32 | 1.97 | 2.03 | **RH2226210R** | Price |
| ER32 | 1.97 | 2.03 | **RH2226211R** | Price |
| ER40 | 2.48 | 2.56 | **RH2226212R** | Price |
| ER40 | 2.48 | 2.56 | **RH2226213R** | Price |

| Type - 3/4” Straight Shank Collet Chuck | | | | |
|---|---|---|---|---|
| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
| ER16 | .870 | 1.24 | **RH2226202R** | Price |
| ER32 | 1.97 | 2.03 | **RH2226206R** | Price |

## Straight Shank ER Collet Holders

- Balance rings
- Run out O.D. - I.D. Max. 0.003
- Mass symmetrical design
- For high spindle speed from 20,000 RPM
- Superior surface finish Ra 0.0004
- Taper accuracy DIn standard 85% fitness



| Type - 1” Straight Shank Collet Chuck | | | | | |
|---|---|---|---|---|---|
| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | OAL (in.) | Order No. | Price |
| ER32 | 2.00 | 1.97 | 4.00 | **GM70690005** | Price |
| ER40 | 2.38 | 2.38 | 4.70 | **GM70690028** | Price |

| Type - 1/2” Straight Shank Collet Chuck | | | | | |
|---|---|---|---|---|---|
| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | OAL (in.) | Order No. | Price |
| ER11 | .875 | 4.00 | 4.75 | **GM70690096** | Price |
| ER16 | .625 | 4.00 | 5.48 | **GM70690064** | Price |

| Type - 1-1/4” Straight Shank Collet Chuck | | | | | |
|---|---|---|---|---|---|
| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | OAL (in.) | Order No. | Price |
| ER32 | 2.00 | 2.38 | 4.30 | **GM70690006** | Price |
| ER40 | 2.38 | 2.38 | 4.70 | **GM70690029** | Price |

| Type - 3/4” Straight Shank Collet Chuck | | | | | |
|---|---|---|---|---|---|
| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | OAL (in.) | Order No. | Price |
| ER11 | .750 | 2.50 | 3.23 | **GM70690093** | Price |
| ER11 | .750 | 4.00 | 4.75 | **GM70690094** | Price |
| ER11 | .750 | 6.00 | 6.75 | **GM70690095** | Price |
| ER16 | .875 | 2.50 | 3.50 | **GM70690063** | Price |
| ER16 | .875 | 4.00 | 5.00 | **GM70690066** | Price |
| ER16 | .875 | 6.00 | 7.00 | **GM70690067** | Price |

| Type - 3/4” Straight Shank Collet Chuck | | | | | |
|---|---|---|---|---|---|
| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | OAL (in.) | Order No. | Price |
| ER16 | 1.11 | 2.50 | 3.70 | **GM70690060** | Price |
| ER16 | 1.11 | 4.00 | 5.20 | **GM70690061** | Price |
| ER16 | 1.11 | 6.00 | 7.20 | **GM70690062** | Price |
| ER20 | .875 | 4.00 | 5.65 | **GM70690033** | Price |
| ER20 | 1.11 | 2.50 | 4.00 | **GM70690038** | Price |
| ER20 | 1.11 | 6.00 | 7.50 | **GM70690034** | Price |
| ER20 | 1.34 | 2.50 | 4.15 | **GM70690039** | Price |
| ER20 | 1.34 | 4.00 | 5.65 | **GM70690031** | Price |
| ER20 | 1.34 | 6.00 | 7.65 | **GM70690032** | Price |
| ER25 | 1.66 | 2.00 | 3.80 | **GM70690046** | Price |
| ER25 | 1.66 | 4.00 | 5.80 | **GM70690047** | Price |
| ER32 | 2.00 | 2.12 | 4.125 | **GM70690004** | Price |

| Type - 5/8” Straight Shank Collet Chuck | | | | | |
|---|---|---|---|---|---|
| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | OAL (in.) | Order No. | Price |
| ER11 | .625 | 2.50 | 3.25 | **GM70690097** | Price |
| ER11 | .625 | 4.00 | 4.75 | **GM70690098** | Price |
| ER11 | .625 | 6.00 | 6.75 | **GM70690099** | Price |
| ER16 | .875 | 1.25 | 2.65 | **GM70690065** | Price |

## Briney Straight Shank ER Collet Holders

- .0002” concentricty or less from shank to bore
- Black oxide prior to finish grind
- Extrenal threads are finished ground for best collet nut concentricity
- Will work with any ER32 series collet



| Type - 1” Straight Shank Collet Chuck | | | | |
|---|---|---|---|---|
| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
| ER20 | .980 | 4.00 | **GM30SS100BR20** | Price |
| ER25 | 1.25 | 4.00 | **GM30SS100BR25** | Price |

| Type - 1/2” Straight Shank Collet Chuck | | | | |
|---|---|---|---|---|
| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
| ER11 | .500 | 3.50 | **GM30SS050BR1166** | Price |

| Type - 1-1/2” Straight Shank Collet Chuck | | | | |
|---|---|---|---|---|
| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
| TG100 | 1.78 | 6.00 | **GM30SS150CH100** | Price |

| Type - 1-1/2” Straight Shank Collet Chuck | | | | |
|---|---|---|---|---|
| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
| TG150 | 2.53 | 6.00 | **GM30SS200CH150** | Price |

| Type - 1-1/4” Straight Shank Collet Chuck | | | | |
|---|---|---|---|---|
| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
| ER25 | 1.57 | 4.00 | **GM30SS125BR32** | Price |

| Type - 3/4” Straight Shank Collet Chuck | | | | |
|---|---|---|---|---|
| Collet Style | Nose Dia. (in.) | Head Length/Projection (in.) | Order No. | Price |
| ER16 | .744 | 4.00 | **GM30SS075BR16** | Price |

## Individual Inch ER Spring Collets

- ER spring collets are the only clamping collet system for combined milling, drilling, reaming, tapping and boring
- ER collets concentricity guaranteed to .0004”
- Wide holding range of each collet requires fewer collets and changes - guarantees that undersize cutting tools can be held without sacrificing accuracy or gripping power
- Unique self-releasing system eliminates sticking
- Flute holding capabilities for highest concentricity and clamping power
- ER mini-collet chucks allow for machining in tight locations with reduced outside nose diameter
- Clamping range is .039”



| Collet Style/Fits - ER8 | | | | |
|---|---|---|---|---|
| | Rego-Fix | | Techniks | |
| ID | Order No. | Price | Order No. | Price |
| 1/16 | GM20110801592 | Price | GM7004208116 | Price |
| 1/8 | GM20110803182 | Price | GM700420818 | Price |
| 3/16 | GM20110804762 | Price | GM7004208316 | Price |

| Collet Style/Fits - ER11 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | Rego-Fix | | Techniks | | ETM | | Parlec | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 1mm | - | - | - | - | - | - | GM401101 | Price | GM9911039 | Price |
| 1/16 | TS1727700 | Price | GM20111101592 | Price | GM70701102 | Price | GM401102 | Price | GM9911078 | Price |
| 3/32 | TS1727701 | Price | GM20111102382 | Price | GM70701103 | Price | GM401103 | Price | GM9911098 | Price |
| 1/8 | TS1727702 | Price | GM20111103182 | Price | GM70701104 | Price | GM401104 | Price | GM9911137 | Price |
| 5/32 | TS1727703 | Price | GM20111103972 | Price | GM7004211532 | Price | - | - | - | - |
| 3/16 | TS1727704 | Price | GM20111104762 | Price | GM70701105 | Price | GM401106 | Price | GM9911196 | Price |
| 7/32 | TS1727705 | Price | GM20111105562 | Price | GM70701106 | Price | GM401107 | Price | GM9911236 | Price |
| 1/4 | TS1727706 | Price | GM20111106352 | Price | GM70701107 | Price | GM401108 | Price | GM9911255 | Price |
| 9/32 | - | - | - | - | GM7004211932 | Price | - | - | - | - |

| Collet Style/Fits - ER16 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | Rego-Fix | | Techniks | | ETM | | Parlec | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 1mm | - | - | - | - | GM70701601 | Price | GM401601 | Price | - | - |
| 1/16 | TS1728001 | Price | GM20111601592 | Price | GM70701612 | Price | GM401602 | Price | GM9916062 | Price |
| 3/32 | TS1728002 | Price | GM20111602382 | Price | GM70701623 | Price | GM401603 | Price | GM9916093 | Price |
| 7/64 | - | - | - | - | GM7004216764 | Price | - | - | - | - |
| 1/8 | TS1728003 | Price | GM20111603182 | Price | GM70701634 | Price | GM401604 | Price | GM9916125 | Price |
| 9/64 | - | - | - | - | GM7004216964 | Price | - | - | - | - |
| 5/32 | TS1728004 | Price | GM20111603972 | Price | GM7004216532 | Price | - | - | - | - |
| 3/16 | TS1728005 | Price | GM20111604762 | Price | GM70701645 | Price | GM401606 | Price | GM9916187 | Price |
| 7/32 | TS1728006 | Price | GM20111605562 | Price | GM70701656 | Price | GM401607 | Price | GM9916218 | Price |
| 1/4 | TS1728007 | Price | GM20111606352 | Price | GM70701667 | Price | GM401608 | Price | GM9916250 | Price |
| 9/32 | TS1728008 | Price | GM20111607142 | Price | GM7004216932 | Price | - | - | - | - |
| 5/16 | TS1728009 | Price | GM20111607942 | Price | GM70701678 | Price | GM401610 | Price | GM9916312 | Price |
| 11/32 | TS1728010 | Price | GM20111608732 | Price | GM70701689 | Price | GM401611 | Price | GM9916343 | Price |
| 3/8 | TS1728011 | Price | GM20111609532 | Price | GM70701690 | Price | GM401612 | Price | GM9916375 | Price |
| 13/32 | TS1728012 | Price | GM20111610322 | Price | GM70042161332 | Price | - | - | - | - |

| Collet Style/Fits - ER20 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | Rego-Fix | | Techniks | | ETM | | Parlec | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 1/16 | - | - | - | - | GM70702012 | Price | GM402002 | Price | GM9920062 | Price |
| 3/32 | TS1728038 | Price | - | - | GM70702023 | Price | GM402003 | Price | GM9920093 | Price |
| 1/8 | TS1728039 | Price | GM20112003182 | Price | GM70702034 | Price | GM402004 | Price | GM9920125 | Price |
| 5/32 | TS1728040 | Price | - | - | GM70702040 | Price | - | - | - | - |
| 3/16 | TS1728041 | Price | GM20112004762 | Price | GM70702045 | Price | GM402006 | Price | GM9920187 | Price |
| 7/32 | TS1728042 | Price | - | - | GM70702056 | Price | GM402007 | Price | GM9920218 | Price |
| 1/4 | TS1728043 | Price | GM20112006352 | Price | GM70702067 | Price | GM402008 | Price | GM9920250 | Price |
| 9/32 | TS1728044 | Price | - | - | GM7004220932 | Price | - | - | - | - |
| 5/16 | TS1728045 | Price | GM20112007942 | Price | GM70702078 | Price | GM402010 | Price | GM9920312 | Price |
| 11/32 | TS1728046 | Price | - | - | GM70702089 | Price | GM402011 | Price | GM9920343 | Price |
| 3/8 | TS1728047 | Price | GM20112009532 | Price | GM70702090 | Price | GM402012 | Price | GM9920375 | Price |
| 13/32 | TS1728048 | Price | - | - | GM70702101 | Price | GM402013 | Price | GM9920406 | Price |
| 7/16 | TS1728049 | Price | GM20112011112 | Price | GM70702112 | Price | GM402014 | Price | GM9920437 | Price |
| 15/32 | TS1728050 | Price | - | - | GM70702120 | Price | - | - | - | - |
| 1/2 | TS1728051 | Price | GM20112012702 | Price | GM70702123 | Price | GM402016 | Price | GM9920500 | Price |

| Collet Style/Fits - ER25 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | Rego-Fix | | Techniks | | ETM | | Parlec | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 1/16 | TS1728071 | Price | - | - | GM70702502 | Price | GM402502 | Price | GM9925062 | Price |
| 3/32 | TS1728072 | Price | - | - | GM70702503 | Price | GM402503 | Price | GM9925093 | Price |
| 1/8 | TS1728073 | Price | GM20112503182 | Price | GM70702504 | Price | GM402504 | Price | GM9925125 | Price |
| 5/32 | TS1728074 | Price | - | - | GM7004225532 | Price | - | - | - | - |
| 3/16 | TS1728075 | Price | GM20112504762 | Price | GM70702505 | Price | GM402506 | Price | GM9925187 | Price |

## Individual Inch ER Spring Collets (cont.)

| Collet Style/Fits - ER25 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | Rego-Fix | | Techniks | | ETM | | Parlec | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 7/32 | TS1728076 | Price | - | - | GM70702506 | Price | GM402507 | Price | GM9925218 | Price |
| 1/4 | TS1728077 | Price | GM20112506352 | Price | GM70702507 | Price | GM402508 | Price | GM9925250 | Price |
| 9/32 | TS1728078 | Price | - | - | GM7004225932 | Price | - | - | - | - |
| 5/16 | TS1728079 | Price | GM20112507942 | Price | GM70702508 | Price | GM402510 | Price | GM9925312 | Price |
| 11/32 | TS1728080 | Price | - | - | GM70702509 | Price | GM402511 | Price | GM9925343 | Price |
| 3/8 | TS1728081 | Price | GM20112509532 | Price | GM70702510 | Price | GM402512 | Price | GM9925375 | Price |
| 13/32 | TS1728082 | Price | - | - | GM70702511 | Price | GM402513 | Price | GM9925406 | Price |
| 7/16 | TS1728083 | Price | GM20112511112 | Price | GM70702512 | Price | GM402514 | Price | GM9925437 | Price |
| 15/32 | TS1728084 | Price | - | - | GM70702517 | Price | - | - | - | - |
| 1/2 | TS1728085 | Price | GM20112512702 | Price | GM70702513 | Price | GM402516 | Price | GM9925500 | Price |
| 17/32 | TS1728086 | Price | - | - | GM70702514 | Price | GM402517 | Price | - | - |
| 9/16 | TS1728087 | Price | GM20112514292 | Price | GM70702515 | Price | GM402518 | Price | GM9925625 | Price |
| 19/32 | TS1728088 | Price | - | - | GM70042251932 | Price | - | - | - | - |
| 5/8 | TS1728089 | Price | GM20112515882 | Price | GM70702516 | Price | - | - | GM9925626 | Price |
| 3/4 | - | - | - | - | GM700422534 | Price | - | - | - | - |

| Collet Style/Fits - ER32 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | Rego-Fix | | Techniks | | ETM | | Parlec | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 1/16 | - | - | - | - | GM7004232116 | Price | - | - | - | - |
| 3/32 | - | - | - | - | GM70703023 | Price | GM403203 | Price | GM9932093 | Price |
| 1/8 | TS1728111 | Price | GM20113203182 | Price | GM70703034 | Price | GM403204 | Price | GM9932125 | Price |
| 5/32 | TS1728112 | Price | - | - | GM7004232532 | Price | - | - | - | - |
| 3/16 | TS1728113 | Price | GM20113204762 | Price | GM70703045 | Price | GM403206 | Price | GM9932187 | Price |
| 7/32 | TS1728114 | Price | - | - | GM70703056 | Price | GM403207 | Price | GM9932218 | Price |
| 1/4 | TS1728115 | Price | GM20113206352 | Price | GM70703067 | Price | GM403208 | Price | GM9932250 | Price |
| 9/32 | TS1728116 | Price | - | - | GM7004232932 | Price | - | - | - | - |
| 5/16 | TS1728117 | Price | GM20113207942 | Price | GM70703078 | Price | GM403210 | Price | GM9932312 | Price |
| 11/32 | TS1728118 | Price | - | - | GM70703089 | Price | GM403211 | Price | GM9932343 | Price |
| 3/8 | TS1728119 | Price | GM20113209532 | Price | GM70703090 | Price | GM403212 | Price | GM9932375 | Price |
| 13/32 | TS1728120 | Price | - | - | GM70703101 | Price | GM403213 | Price | GM9932406 | Price |
| 7/16 | TS1728121 | Price | GM20113211112 | Price | GM70703112 | Price | GM403214 | Price | GM9932437 | Price |
| 15/32 | TS1728122 | Price | - | - | GM70703120 | Price | - | - | - | - |
| 1/2 | TS1728123 | Price | GM20113212702 | Price | GM70703123 | Price | GM403216 | Price | GM9932500 | Price |
| 17/32 | TS1728124 | Price | - | - | GM70703134 | Price | GM403217 | Price | GM9932219 | Price |
| 9/16 | TS1728125 | Price | GM20113214292 | Price | GM70703145 | Price | GM403218 | Price | GM9932562 | Price |
| 19/32 | TS1728126 | Price | - | - | GM70703150 | Price | - | - | - | - |
| 5/8 | TS1728127 | Price | GM20113215882 | Price | GM70703156 | Price | GM403220 | Price | GM9932625 | Price |
| 21/32 | TS1728128 | Price | - | - | GM70703167 | Price | GM403221 | Price | GM9932656 | Price |
| 11/16 | TS1728129 | Price | GM20113217462 | Price | GM70703178 | Price | GM403222 | Price | GM9932687 | Price |
| 23/32 | TS1728130 | Price | - | - | GM70042322332 | Price | - | - | - | - |
| 3/4 | TS1728131 | Price | GM20113219052 | Price | GM70703189 | Price | GM403224 | Price | GM9932750 | Price |
| 25/32 | TS1728132 | Price | - | - | GM70703190 | Price | GM403225 | Price | GM9932781 | Price |
| 13/16 | TS1728133 | Price | GM20113220642 | Price | GM70042321316 | Price | - | - | - | - |

| Collet Style/Fits - ER40 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | Rego-Fix | | Techniks | | ETM | | Parlec | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 1/8 | TS1728158 | Price | GM20114003182 | Price | GM70704034 | Price | GM404004 | Price | GM9940125 | Price |
| 5/32 | TS1728159 | Price | - | - | GM7004240532 | Price | - | - | - | - |
| 3/16 | TS1728160 | Price | GM20114004762 | Price | GM70704045 | Price | GM404006 | Price | GM9940187 | Price |
| 7/32 | TS1728161 | Price | - | - | GM70704056 | Price | GM404007 | Price | GM9940218 | Price |
| 1/4 | TS1728162 | Price | GM20114006352 | Price | GM70704067 | Price | GM404008 | Price | GM9940250 | Price |
| 9/32 | TS1728163 | Price | - | - | GM7004240932 | Price | - | - | - | - |
| 5/16 | TS1728164 | Price | GM20114007942 | Price | GM70704078 | Price | GM404010 | Price | GM9940312 | Price |
| 11/32 | TS1728165 | Price | - | - | GM70704089 | Price | GM404011 | Price | GM9940343 | Price |
| 3/8 | TS1728166 | Price | GM20114009532 | Price | GM70704090 | Price | GM404012 | Price | GM9940375 | Price |
| 13/32 | TS1728167 | Price | - | - | GM70704101 | Price | GM404013 | Price | GM9940406 | Price |
| 7/16 | TS1728168 | Price | GM20114011112 | Price | GM70704112 | Price | GM404014 | Price | GM9940437 | Price |
| 15/32 | TS1728169 | Price | - | - | GM70042401532 | Price | - | - | - | - |
| 17/32 | TS1728171 | Price | - | - | GM70704134 | Price | GM404017 | Price | GM9940531 | Price |
| 1/2 | TS1728170 | Price | GM20114012702 | Price | GM70704123 | Price | GM404016 | Price | GM9940500 | Price |
| 9/16 | TS1728172 | Price | GM20114014292 | Price | GM70704145 | Price | GM404018 | Price | GM9940562 | Price |
| 19/32 | TS1728173 | Price | - | - | GM70042401932 | Price | - | - | - | - |
| 5/8 | TS1728174 | Price | GM20114015882 | Price | GM70704156 | Price | GM404020 | Price | GM9940625 | Price |
| 21/32 | TS1728175 | Price | - | - | GM70704167 | Price | GM404021 | Price | - | - |
| 11/16 | TS1728176 | Price | GM20114017462 | Price | GM70704178 | Price | GM404022 | Price | GM9940656 | Price |
| 23/32 | TS1728177 | Price | - | - | GM70042402332 | Price | - | - | - | - |
| 3/4 | TS1728178 | Price | GM20114019052 | Price | GM70704189 | Price | GM404024 | Price | GM9940750 | Price |
| 25/32 | TS1728179 | Price | - | - | GM70704190 | Price | GM404025 | Price | GM9940781 | Price |
| 13/16 | TS1728180 | Price | GM20114020642 | Price | GM70704201 | Price | GM404026 | Price | GM9940812 | Price |
| 27/32 | TS1728181 | Price | - | - | GM70704212 | Price | GM404027 | Price | GM9940843 | Price |
| 7/8 | TS1728182 | Price | GM20114022232 | Price | GM70704223 | Price | GM404028 | Price | GM9940875 | Price |
| 29/32 | TS1728183 | Price | - | - | GM70042402932 | Price | - | - | - | - |

## Individual Inch ER Spring Collets (cont.)

| Collet Style/Fits - ER40 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | Rego-Fix | | Techniks | | ETM | | Parlec | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 15/16 | **TS1728184** | Price | **-** | - | **GM70704234** | Price | **GM404030** | Price | **GM9940937** | Price |
| 31/32 | **TS1728185** | Price | **-** | - | **GM70704245** | Price | **GM404031** | Price | **GM9940968** | Price |
| 1 | **TS1728186** | Price | **GM20114025402** | Price | **GM70704256** | Price | **GM404032** | Price | **GM99401000** | Price |

| Collet Style/Fits - ER50 | | | | |
|---|---|---|---|---|
| | Rego-Fix | | Techniks | |
| ID | Order No. | Price | Order No. | Price |
| 3/16 | **GM20115006000** | Price | **-** | - |
| 1/4 | **GM20115008000** | Price | **-** | - |
| 3/8 | **GM20115010000** | Price | **-** | - |
| 7/16 | **GM20115012000** | Price | **-** | - |
| 1/2 | **GM20115014000** | Price | **GM700425500** | Price |
| 5/8 | **GM20115016000** | Price | **GM700425058** | Price |
| 11/16 | **GM20115018000** | Price | **-** | - |
| 3/4 | **GM20115020000** | Price | **GM700425750** | Price |
| 13/16 | **GM20115022000** | Price | **-** | - |
| 7/8 | **GM20115024000** | Price | **GM700425078** | Price |
| 31/32 | **GM20115025000** | Price | **-** | - |
| 1 | **GM20115026000** | Price | **GM70042501** | Price |
| 1-1/16 | **GM20115028000** | Price | **-** | - |
| 1-1/8 | **GM20115030000** | Price | **-** | - |
| 1-1/4 | **GM20115032000** | Price | **GM7004250114** | Price |
| 1-5/16 | **GM20115034000** | Price | **-** | - |
| 1-3/8 | **GM20115036000** | Price | **-** | - |

## Individual Metric ER Spring Collets



**Features:**

- ER Spring Collets are the only Clamping Collet System for combined milling, drilling, reaming, tapping and boring
- ER Collets concentricity guaranteed to .0004”
- Wide holding range of each collet requires fewer collets and changes - guarantees that undersize cutting tools can be held without sacrificing accuracy or gripping power
- Uniqure self-releasing system elimiates sticking
- Flute holding capabilities for highest concentricity and clamping power
- ER Mini-Collet Chucks allow for machining in tight locations with reduced outside nose diameter
- Clamping range is .039”

| Collet Style/Fits - ER8 | | | | |
|---|---|---|---|---|
| | Rego-Fix | | Techniks | |
| ID | Order No. | Price | Order No. | Price |
| 1mm | **GM20110801000** | Price | **GM7042081MM** | Price |
| 1.5mm | **GM20110801500** | Price | **GM70420815MM** | Price |
| 2mm | **GM20110802000** | Price | **GM7042082MM** | Price |
| 2.5mm | **GM20110802500** | Price | **GM70420825MM** | Price |
| 3mm | **GM20110803000** | Price | **GM7042083MM** | Price |
| 3.5mm | **GM20110803500** | Price | **GM70420835MM** | Price |
| 4mm | **GM20110804000** | Price | **GM7042084MM** | Price |
| 4.5mm | **GM20110804500** | Price | **GM70420845MM** | Price |
| 5mm | **GM20110805000** | Price | **GM7042085MM** | Price |

| Collet Style/Fits - ER11 | | | | | | |
|---|---|---|---|---|---|---|
| | Rapidkut | | Rego-Fix | | Techniks | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price |
| 1mm | **TS1727714** | Price | **GM20111101000** | Price | **GM7042111MM** | Price |
| 1.5mm | **TS1727715** | Price | **GM20111101500** | Price | **GM70421115MM** | Price |
| 2mm | **TS1727716** | Price | **GM20111102000** | Price | **GM7042112MM** | Price |
| 2.5mm | **TS1727717** | Price | **GM20111102500** | Price | **GM70421125MM** | Price |
| 3mm | **TS1727718** | Price | **GM20111103000** | Price | **GM7042113MM** | Price |
| 3.5mm | **TS1727719** | Price | **GM20111103500** | Price | **GM70421135MM** | Price |
| 4mm | **TS1727720** | Price | **GM20111104000** | Price | **GM7042114MM** | Price |
| 4.5mm | **TS1727721** | Price | **GM20111104500** | Price | **GM70421145MM** | Price |
| 5mm | **TS1727722** | Price | **GM20111105000** | Price | **GM7042115MM** | Price |
| 5.5mm | **TS1727723** | Price | **GM20111105500** | Price | **GM70421155MM** | Price |
| 6mm | **TS1727724** | Price | **GM20111106000** | Price | **GM7042116MM** | Price |
| 6.5mm | **TS1727725** | Price | **GM20111106500** | Price | **GM70421165MM** | Price |
| 7mm | **TS1727726** | Price | **GM20111107000** | Price | **GM7042117MM** | Price |

## Individual Metric ER Spring Collets (cont.)

| Collet Style/Fits - ER16 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Parlec | | Rapidkut | | Rego-Fix | | Techniks | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 1mm | GM9916039 | Price | TS1728016 | Price | GM20111601000 | Price | - | - |
| 1.5mm | - | - | TS1728017 | Price | GM20111601500 | Price | GM70421615MM | Price |
| 2mm | GM9916078 | Price | TS1728018 | Price | GM20111602000 | Price | GM7042162MM | Price |
| 2.5mm | - | - | TS1728019 | Price | GM20111602500 | Price | GM70421625MM | Price |
| 3mm | GM9916118 | Price | TS1728020 | Price | GM20111603000 | Price | GM7042163MM | Price |
| 3.5mm | - | - | TS1728021 | Price | GM20111603500 | Price | GM70421635MM | Price |
| 4mm | GM9916157 | Price | TS1728022 | Price | GM20111604000 | Price | GM7042164MM | Price |
| 4.5mm | - | - | TS1728023 | Price | GM20111604500 | Price | GM70421645MM | Price |
| 5mm | GM9916196 | Price | TS1728024 | Price | GM20111605000 | Price | GM7042165MM | Price |
| 5.5mm | - | - | TS1728025 | Price | GM20111605500 | Price | GM70421655MM | Price |
| 6mm | GM9916236 | Price | TS1728026 | Price | GM20111606000 | Price | GM7042166MM | Price |
| 6.5mm | - | - | TS1728027 | Price | GM20111606500 | Price | GM70421665MM | Price |
| 7mm | GM9916275 | Price | TS1728028 | Price | GM20111607000 | Price | GM7042167MM | Price |
| 7.5mm | - | - | TS1728029 | Price | GM20111607500 | Price | GM70421675MM | Price |
| 8mm | GM9916315 | Price | TS1728030 | Price | GM20111608000 | Price | GM7042168MM | Price |
| 8.5mm | - | - | TS1728031 | Price | GM20111608500 | Price | GM70421685MM | Price |
| 9mm | GM9916354 | Price | TS1728032 | Price | GM20111609000 | Price | GM7042169MM | Price |
| 9.5mm | - | - | TS1728033 | Price | GM20111609500 | Price | GM70421695MM | Price |
| 10mm | GM9916393 | Price | TS1728034 | Price | GM20111610000 | Price | GM70421610MM | Price |

| Collet Style/Fits - ER20 | | | | | | |
|---|---|---|---|---|---|---|
| | Rapidkut | | Rego-Fix | | Techniks | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price |
| 1mm | TS1728055 | Price | GM20112001000 | Price | GM700422001 | Price |
| 1.5mm | - | - | GM20112001500 | Price | GM7004220015 | Price |
| 2mm | TS1728056 | Price | GM20112002000 | Price | GM7042202MM | Price |
| 2.5mm | - | - | GM20112002500 | Price | GM70422025MM | Price |
| 3mm | TS1728057 | Price | GM20112003000 | Price | GM7042203MM | Price |
| 3.5mm | - | - | GM20112003500 | Price | GM70422035MM | Price |
| 4mm | TS1728058 | Price | GM20112004000 | Price | GM7042204MM | Price |
| 4.5mm | - | - | GM20112004500 | Price | GM70422045MM | Price |
| 5mm | TS1728059 | Price | GM20112005000 | Price | GM7042205MM | Price |
| 5.5mm | - | - | GM20112005500 | Price | GM70422055MM | Price |
| 6mm | TS1728060 | Price | GM20112006000 | Price | GM7042206MM | Price |
| 6.5mm | - | - | GM20112006500 | Price | GM70422065MM | Price |
| 7mm | TS1728061 | Price | GM20112007000 | Price | GM7042207MM | Price |
| 7.5mm | - | - | GM20112007500 | Price | GM70422075MM | Price |
| 8mm | TS1728062 | Price | GM20112008000 | Price | GM7042208MM | Price |
| 8.5mm | - | - | GM20112008500 | Price | GM70422085MM | Price |
| 9mm | TS1728063 | Price | GM20112009000 | Price | GM7042209MM | Price |
| 9.5mm | - | - | GM20112009500 | Price | GM70422095MM | Price |
| 10mm | TS1728064 | Price | GM20112010000 | Price | GM70422010MM | Price |
| 10.5mm | - | - | GM20112010500 | Price | GM704220105MM | Price |
| 11mm | TS1728065 | Price | GM20112011000 | Price | GM70422011MM | Price |
| 11.5mm | - | - | GM20112011500 | Price | GM704220115MM | Price |
| 12mm | TS1728066 | Price | GM20112012000 | Price | GM70422012MM | Price |
| 12.5mm | - | - | GM20112012500 | Price | GM704220125MM | Price |
| 13mm | TS1728067 | Price | GM20112013000 | Price | GM70422013MM | Price |
| 13.5mm | - | - | - | - | GM704220135MM | Price |
| 14mm | - | - | - | - | GM70422014MM | Price |

| Collet Style/Fits - ER25 | | | | | | |
|---|---|---|---|---|---|---|
| | Rapidkut | | Rego-Fix | | Techniks | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price |
| 1mm | - | - | GM20112501000 | Price | - | - |
| 1.5mm | - | - | GM20112501500 | Price | - | - |
| 2mm | TS1728093 | Price | GM20112502000 | Price | GM7042252MM | Price |
| 2.5mm | - | - | GM20112502500 | Price | GM70422525MM | Price |
| 3mm | TS1728094 | Price | GM20112503000 | Price | GM7042253MM | Price |
| 3.5mm | - | - | GM20112503500 | Price | GM70422535MM | Price |
| 4mm | TS1728095 | Price | GM20112504000 | Price | GM7042254MM | Price |
| 4.5mm | - | - | GM20112504500 | Price | GM70422545MM | Price |
| 5mm | TS1728096 | Price | GM20112505000 | Price | GM7042255MM | Price |

## Individual Metric ER Spring Collets (cont.)

RAPIDHOLD

| Collet Style/Fits - ER25 | | | | | | |
|---|---|---|---|---|---|---|
| | Rapidkut | | Rego-Fix | | Techniks | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price |
| 5.5mm | - | - | GM20112505500 | Price | - | - |
| 6mm | TS1728097 | Price | GM20112506000 | Price | GM7042256MM | Price |
| 6.5mm | - | - | GM20112506500 | Price | - | - |
| 7mm | TS1728098 | Price | GM20112507000 | Price | GM7042257MM | Price |
| 7.5mm | - | - | GM20112507500 | Price | - | - |
| 8mm | TS1728099 | Price | GM20112508000 | Price | GM7042258MM | Price |
| 8.5mm | - | - | GM20112508500 | Price | - | - |
| 9mm | TS1728100 | Price | GM20112509000 | Price | GM7042259MM | Price |
| 9.5mm | - | - | GM20112509500 | Price | - | - |
| 10mm | TS1728101 | Price | GM20112510000 | Price | GM70422510MM | Price |
| 10.5mm | - | - | GM20112510500 | Price | - | - |
| 11mm | TS1728102 | Price | GM20112511000 | Price | GM70422511MM | Price |
| 11.5mm | - | - | GM20112511500 | Price | - | - |
| 12mm | TS1728103 | Price | GM20112512000 | Price | GM70422512MM | Price |
| 12.5mm | - | - | GM20112512500 | Price | - | - |
| 13mm | TS1728104 | Price | GM20112513000 | Price | GM70422513MM | Price |
| 13.5mm | - | - | GM20112513500 | Price | - | - |
| 14mm | TS1728105 | Price | GM20112514000 | Price | GM70422514MM | Price |
| 14.5mm | - | - | GM20112514500 | Price | - | - |
| 15mm | TS1728106 | Price | GM20112515000 | Price | GM70422515MM | Price |
| 15.5mm | - | - | GM20112515500 | Price | - | - |
| 16mm | TS1728107 | Price | GM20112516000 | Price | GM70422516MM | Price |
| 17mm | - | - | GM20112517000 | Price | GM70422517MM | Price |

PARLEC RAPIDHOLD

| Collet Style/Fits - ER32 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Parlec | | Rapidkut | | Rego-Fix | | Techniks | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 2mm | - | - | - | - | GM20113202000 | Price | - | - |
| 2.5mm | - | - | - | - | GM20113202500 | Price | - | - |
| 3mm | - | - | TS1728137 | Price | GM20113203000 | Price | GM7042323MM | Price |
| 3.5mm | - | - | - | - | GM20113203500 | Price | GM70423235MM | Price |
| 4mm | - | - | TS1728138 | Price | GM20113204000 | Price | GM7042324MM | Price |
| 4.5mm | - | - | - | - | GM20113204500 | Price | GM70423245MM | Price |
| 5mm | - | - | TS1728139 | Price | GM20113205000 | Price | GM7042325MM | Price |
| 5.5mm | - | - | - | - | GM20113205500 | Price | GM70423255MM | Price |
| 6mm | - | - | TS1728140 | Price | GM20113206000 | Price | GM7042326MM | Price |
| 6.5mm | - | - | - | - | GM20113206500 | Price | GM70423265MM | Price |
| 7mm | - | - | TS1728141 | Price | GM20113207000 | Price | GM7042327MM | Price |
| 7.5mm | - | - | - | - | GM20113207500 | Price | GM70423275MM | Price |
| 8mm | - | - | TS1728142 | Price | GM20113208000 | Price | GM7042328MM | Price |
| 8.5mm | - | - | - | - | GM20113208500 | Price | GM70423285MM | Price |
| 9mm | - | - | TS1728143 | Price | GM20113209000 | Price | GM7042329MM | Price |
| 9.5mm | - | - | - | - | GM20113209500 | Price | GM70423295MM | Price |
| 10mm | - | - | TS1728144 | Price | GM20113210000 | Price | GM70423210MM | Price |
| 10.5mm | - | - | - | - | GM20113210500 | Price | GM704232105MM | Price |
| 11mm | GM9932433 | Price | TS1728145 | Price | GM20113211000 | Price | GM70423211MM | Price |
| 11.5mm | - | - | - | - | GM20113211500 | Price | GM704232115MM | Price |
| 12mm | GM9932472 | Price | TS1728146 | Price | GM20113212000 | Price | GM70423212MM | Price |
| 12.5mm | - | - | - | - | GM20113212500 | Price | GM704232125MM | Price |
| 13mm | GM9932511 | Price | TS1728147 | Price | GM20113213000 | Price | GM70423213MM | Price |
| 13.5mm | - | - | - | - | GM20113213500 | Price | GM704232135MM | Price |
| 14mm | GM9932551 | Price | TS1728148 | Price | GM20113214000 | Price | GM70423214MM | Price |
| 14.5mm | - | - | - | - | GM20113214500 | Price | GM704232145MM | Price |
| 15mm | GM9932590 | Price | TS1728149 | Price | GM20113215000 | Price | GM70423215MM | Price |
| 15.5mm | - | - | - | - | GM20113215500 | Price | GM704232155MM | Price |
| 16mm | GM9932630 | Price | TS1728150 | Price | GM20113216000 | Price | GM70423216MM | Price |
| 16.5mm | - | - | - | - | GM20113216500 | Price | GM704232165MM | Price |
| 17mm | GM9932669 | Price | TS1728151 | Price | GM20113217000 | Price | GM70423217MM | Price |
| 17.5mm | - | - | - | - | GM20113217500 | Price | GM704232175MM | Price |
| 18mm | GM9932708 | Price | TS1728152 | Price | GM20113218000 | Price | GM70423218MM | Price |
| 18.5mm | - | - | - | - | GM20113218500 | Price | GM704232185MM | Price |
| 19mm | GM9932748 | Price | TS1728153 | Price | GM20113219000 | Price | GM70423219MM | Price |
| 19.5mm | - | - | - | - | GM20113219500 | Price | GM704232195MM | Price |
| 20mm | GM9932787 | Price | TS1728154 | Price | GM20113220000 | Price | GM70423220MM | Price |
| 21mm | - | - | - | - | GM20113221000 | Price | GM70423221MM | Price |
| 22mm | - | - | - | - | GM20113222000 | Price | - | - |

## Individual Metric ER Spring Collets (cont.)

RAPIDHOLD

| Collet Style/Fits - ER40 | | | | | | |
|---|---|---|---|---|---|---|
| | Rapidkut | | Rego-Fix | | Techniks | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price |
| 3mm | - | - | GM20114003000 | Price | - | - |
| 3.5mm | - | - | GM20114003500 | Price | - | - |
| 4mm | TS1728190 | Price | GM20114004000 | Price | GM7042404MM | Price |
| 4.5mm | - | - | GM20114004500 | Price | - | - |
| 5mm | TS1728191 | Price | GM20114005000 | Price | GM7042405MM | Price |
| 5.5mm | - | - | GM20114005500 | Price | - | - |
| 6mm | TS1728192 | Price | GM20114006000 | Price | GM7042406MM | Price |
| 6.5mm | - | - | GM20114006500 | Price | - | - |
| 7mm | TS1728193 | Price | GM20114007000 | Price | GM7042407MM | Price |
| 7.5mm | - | - | GM20114007500 | Price | - | - |
| 8mm | TS1728194 | Price | GM20114008000 | Price | GM7042408MM | Price |
| 8.5mm | - | - | GM20114008500 | Price | - | - |
| 9mm | TS1728195 | Price | GM20114009000 | Price | GM7042409MM | Price |
| 9.5mm | - | - | GM20114009500 | Price | - | - |
| 10mm | TS1728196 | Price | GM20114010000 | Price | GM70424010MM | Price |
| 10.5mm | - | - | GM20114010500 | Price | - | - |
| 11mm | TS1728197 | Price | GM20114011000 | Price | GM70424011MM | Price |
| 11.5mm | - | - | GM20114011500 | Price | - | - |
| 12mm | TS1728198 | Price | GM20114012000 | Price | GM70424012MM | Price |
| 12.5mm | - | - | GM20114012500 | Price | - | - |
| 13mm | TS1728199 | Price | GM20114013000 | Price | GM70424013MM | Price |
| 13.5mm | - | - | GM20114013500 | Price | - | - |
| 14mm | TS1728200 | Price | GM20114014000 | Price | GM70424014MM | Price |
| 14.5mm | - | - | GM20114014500 | Price | - | - |
| 15mm | TS1728201 | Price | GM20114015000 | Price | GM70424015MM | Price |
| 15.5mm | - | - | GM20114015500 | Price | - | - |
| 16mm | TS1728202 | Price | GM20114016000 | Price | GM70424016MM | Price |
| 16.5mm | - | - | GM20114016500 | Price | - | - |
| 17mm | TS1728203 | Price | GM20114017000 | Price | GM70424017MM | Price |
| 17.5mm | - | - | GM20114017500 | Price | - | - |
| 18mm | TS1728204 | Price | GM20114018000 | Price | GM70424018MM | Price |
| 18.5mm | - | - | GM20114018500 | Price | - | - |
| 19mm | TS1728205 | Price | GM20114019000 | Price | GM70424019MM | Price |
| 19.5mm | - | - | GM20114019500 | Price | - | - |
| 20mm | TS1728206 | Price | GM20114020000 | Price | GM70424020MM | Price |
| 20.5mm | - | - | GM20114020500 | Price | - | - |
| 21mm | TS1728207 | Price | GM20114021000 | Price | GM70424021MM | Price |
| 21.5mm | - | - | GM20114021500 | Price | - | - |
| 22mm | TS1728208 | Price | GM20114022000 | Price | GM70424022MM | Price |
| 22.5mm | - | - | GM20114022500 | Price | - | - |
| 23mm | TS1728209 | Price | GM20114023000 | Price | GM70424023MM | Price |
| 23.5mm | - | - | GM20114023500 | Price | - | - |
| 24mm | TS1728210 | Price | GM20114024000 | Price | GM70424024MM | Price |
| 24.5mm | - | - | GM20114024500 | Price | - | - |
| 25mm | TS1728211 | Price | GM20114025000 | Price | GM70424025MM | Price |
| 25.5mm | - | - | GM20114025500 | Price | - | - |
| 26mm | TS1728212 | Price | GM20114026000 | Price | GM70424026MM | Price |
| 27mm | - | - | GM20114027000 | Price | GM70424027MM | Price |
| 28mm | - | - | GM20114028000 | Price | - | - |
| 29mm | - | - | GM20114029000 | Price | - | - |
| 30mm | - | - | GM20114030000 | Price | - | - |

| Collet Style/Fits - ER50 | | |
|---|---|---|
| | Techniks | |
| ID | Order No. | Price |
| 6mm | GM700425006 | Price |
| 7mm | GM700425007 | Price |
| 8mm | GM700425008 | Price |
| 9mm | GM700425009 | Price |
| 10mm | GM700425010 | Price |
| 12mm | GM700425012 | Price |
| 14mm | GM700425014 | Price |
| 16mm | GM700425016 | Price |
| 18mm | GM700425018 | Price |

| Collet Style/Fits - ER50 | | |
|---|---|---|
| | Techniks | |
| ID | Order No. | Price |
| 20mm | GM700425020 | Price |
| 22mm | GM700425022 | Price |
| 24mm | GM700425024 | Price |
| 26mm | GM700425026 | Price |
| 28mm | GM700425028 | Price |
| 29mm | GM700425029 | Price |
| 30mm | GM700425030 | Price |
| 32mm | GM700425032 | Price |
| 34mm | GM700425034 | Price |

# ER / TG / DA Collet Sets
## in Wooden Tray



| Collet Style - ER8 | | | | |
|---|---|---|---|---|
| No. of Collets | Size Range (in.) | Brand Name | Order No. | Price |
| 3 | 1/16 - 3/16 | Rego-Fix | **GM20110800002** | Price |
| 9 | .7mm - 5mm | Rego-Fix | **GM20110800000** | Price |
| 9 | 1mm - 5mm | Techniks | **GM70701198** | Price |

| Collet Style - ER11 | | | | |
|---|---|---|---|---|
| No. of Collets | Size Range (in.) | Brand Name | Order No. | Price |
| 13 | .5mm - 7mm | Rego-Fix | **GM20111100000** | Price |
| 13 | 1mm - 7mm | Rapidhold | **TS1727729** | Price |
| 13 | 1mm - 7mm | Techniks | **GM70701200** | Price |
| 7 | .5mm - 7mm | Parlec | **GM99S013** | Price |
| 7 | 1/16 - 1/4 | Rapidhold | **TS1727710** | Price |
| 7 | 1/16 - 1/4 | Rego-Fix | **GM20111100002** | Price |
| 7 | 1/32 - 1/4 | ETM | **GM405011** | Price |
| 7 | 1/32 - 1/4 | Techniks | **GM70701199** | Price |

| Collet Style - ER16 | | | | |
|---|---|---|---|---|
| No. of Collets | Size Range (in.) | Brand Name | Order No. | Price |
| 10 | .5mm - 10mm | Parlec | **GM99S010** | Price |
| 10 | .5mm - 10mm | Rego-Fix | **GM20111600000** | Price |
| 10 | 1/32 - 3/8 | ETM | **GM405016** | Price |
| 10 | 1/32 - 3/8 | Techniks | **GM70701699** | Price |
| 10 | 1mm - 10mm | Rapidhold | **TS1728035** | Price |
| 10 | 1mm - 10mm | Techniks | **GM70701700** | Price |
| 10 | 3/32 - 3/8 | Techniks | **GM6904543IS** | Price |
| 12 | 1/16 - 13/32 | Rapidhold | **TS1728013** | Price |
| 12 | 1/16 -13/32 | Parlec | **GM99ER16S012** | Price |
| 12 | 1/16 -13/32 | Rego-Fix | **GM20111600002** | Price |
| 8 | 3mm - 10mm | Techniks | **GM6904543MS** | Price |

| Collet Style - ER20 | | | | |
|---|---|---|---|---|
| No. of Collets | Size Range (in.) | Brand Name | Order No. | Price |
| 11 | 2mm - 13mm | Techniks | **GM6904544MS** | Price |
| 12 | 1/16 - 1/2 | ETM | **GM405020** | Price |
| 12 | 1/16 - 1/2 | Techniks | **GM70702199** | Price |
| 12 | 1mm - 13mm | Parlec | **GM99S012** | Price |
| 12 | 1mm - 13mm | Rego-Fix | **GM20112000000** | Price |
| 12 | 2mm - 13mm | Rapidhold | **TS1728068** | Price |
| 12 | 2mm - 13mm | Techniks | **GM70702200** | Price |
| 12 | 5/32 - 1/2 | Techniks | **GM6904544IS** | Price |
| 14 | 3/32 - 1/2 | Parlec | **GM99ER20S014** | Price |
| 7 | 1/8 - 1/2 | Rego-Fix | **GM20112000002** | Price |
| 8 | 3/32, 1/8 - 1/2 | Rapidhold | **TS1728052** | Price |

| Collet Style - ER25 | | | | |
|---|---|---|---|---|
| No. of Collets | Size Range (in.) | Brand Name | Order No. | Price |
| 10 | 3/32, 1/8 - 5/8 | Rapidhold | **TS1728090** | Price |
| 14 | 3mm - 16mm | Techniks | **GM6904545MS** | Price |
| 14 | 7/32 - 3/4 | Techniks | **GM6904545IS** | Price |
| 15 | 1/16 - 5/8 | ETM | **GM405025** | Price |
| 15 | 1mm - 16mm | Parlec | **GM99S015** | Price |
| 15 | 1mm - 16mm | Rego-Fix | **GM20112500000** | Price |
| 15 | 2mm - 16mm | Rapidhold | **TS1728108** | Price |
| 15 | 2mm - 16mm | Techniks | **GM70702600** | Price |
| 16 | 5/32 - 5/8 | Techniks | **GM70702599** | Price |
| 9 | 1/8 - 5/8 | Rego-Fix | **GM20112500002** | Price |

| Collet Style - ER32 | | | | |
|---|---|---|---|---|
| No. of Collets | Size Range (in.) | Brand Name | Order No. | Price |
| 12 | 1/8 - 13/16 | Rapidhold | **TS1728134** | Price |
| 12 | 1/8 - 13/16 | Rego-Fix | **GM20113200002** | Price |
| 18 | 2mm - 20mm | Parlec | **GM99S018** | Price |
| 18 | 2mm - 20mm | Rego-Fix | **GM20113200000** | Price |
| 18 | 3/32 - 3/4 | ETM | **GM405032** | Price |

# Collet Trays

- Storage overview
- Collet bore diameters are marked on the tray
- Chemical and oil resistant

| Collet Style - Inch | | | |
|---|---|---|---|
| No. of Collets | Type | Order No. | Price |
| 3 | ER8 | **GM20712108300** | Price |
| 7 | ER11 | **GM20712111300** | Price |
| 7 | ER20 | **GM20712120300** | Price |
| 9 | ER25 | **GM20712125300** | Price |
| 12 | ER16 | **GM20712116300** | Price |
| 12 | ER32 | **GM20712132300** | Price |
| 14 | ER40 | **GM20712140300** | Price |

| Collet Style - ER32 | | | | |
|---|---|---|---|---|
| No. of Collets | Size Range (in.) | Brand Name | Order No. | Price |
| 18 | 3mm - 16mm | Techniks | **GM6904546MS** | Price |
| 18 | 3mm - 20mm | Rapidhold | **TS1728155** | Price |
| 18 | 3mm - 20mm | Techniks | **GM70704000** | Price |
| 18 | 7/32 - 3/4 | Techniks | **GM6904546IS** | Price |
| 18 | 7/32 - 3/4 | Techniks | **GM70703999** | Price |
| 21 | 1/8 - 3/4 | Parlec | **GM99ER32S022** | Price |

| Collet Style - ER40 | | | | |
|---|---|---|---|---|
| No. of Collets | Size Range (in.) | Brand Name | Order No. | Price |
| 13 | 1/8 - 1 | Techniks | **GM70704999** | Price |
| 14 | 1/8 - 1 | Rego-Fix | **GM20114000002** | Price |
| 14 | 2mm - 16mm | Techniks | **GM6904547MS** | Price |
| 15 | 1/8 - 1 | Rapidhold | **TS1728187** | Price |
| 15 | 3/8 - 1 | Techniks | **GM6904547IS** | Price |
| 23 | 1/8 - 1 | ETM | **GM405040** | Price |
| 23 | 3mm - 26mm | Rego-Fix | **GM20114000000** | Price |
| 23 | 4mm - 26mm | Parlec | **GM99S023** | Price |
| 23 | 4mm - 26mm | Rapidhold | **TS1728213** | Price |
| 23 | 4mm - 26mm | Techniks | **GM70705000** | Price |

| Collet Style - ER50 | | | | |
|---|---|---|---|---|
| No. of Collets | Size Range (in.) | Brand Name | Order No. | Price |
| 10 | 3/32 - 3/8 | Techniks | **GM6904548IS** | Price |
| 12 | 4mm - 34mm | Rego-Fix | **GM20115000000** | Price |
| 17 | 6mm - 34mm | Techniks | **GM70706000** | Price |

| Collet Style - DA100 | | | | |
|---|---|---|---|---|
| No. of Collets | Size Range (in.) | Brand Name | Order No. | Price |
| 15 | 1/8 - 9/16 | Techniks | **TE130161015S** | Price |
| 21 | 1/4 - 9/16 | Techniks | **TE130161021S** | Price |
| 29 | 1/8 - 9/16 | Techniks | **TE130161029S** | Price |
| 33 | 1/16 - 9/16 | Techniks | **TE130161033S** | Price |
| 8 | 1/8 - 9/16 | Techniks | **TE13016108S** | Price |

| Collet Style - DA180 | | | | |
|---|---|---|---|---|
| No. of Collets | Size Range (in.) | Brand Name | Order No. | Price |
| 17 | 1/4 - 3/4 | Techniks | **TE130161817S** | Price |
| 21 | 1/8 - 3/4 | Techniks | **TE130161821S** | Price |
| 33 | 1/4 - 3/4 | Techniks | **TE130161833S** | Price |
| 41 | 1/8 - 3/4 | Techniks | **TE130161841S** | Price |
| 9 | 1/4 - 3/4 | Techniks | **TE13016189S** | Price |

| Collet Style - DA200 | | | | |
|---|---|---|---|---|
| No. of Collets | Size Range (in.) | Brand Name | Order No. | Price |
| 17 | 1/8 - 3/8 | Techniks | **TE130162017S** | Price |
| 21 | 1/16 - 3/8 | Techniks | **TE130162021S** | Price |
| 9 | 1/8 - 3/8 | Techniks | **TE13016209S** | Price |

| Collet Style - DA300 | | | | |
|---|---|---|---|---|
| No. of Collets | Size Range (in.) | Brand Name | Order No. | Price |
| 14 | 3/64 - 1/4 | Techniks | **TE130163014S** | Price |
| 7 | 1/16 - 1/4 | Techniks | **TE13016307S** | Price |

| Collet Style - TG100 | | | | |
|---|---|---|---|---|
| No. of Collets | Size Range (in.) | Brand Name | Order No. | Price |
| 15 | 1/8 - 1 | Techniks | **TE130401015S** | Price |
| 41 | 3/8 - 1 | Techniks | **TE130401041S** | Price |

| Collet Style - TG75 | | | | |
|---|---|---|---|---|
| No. of Collets | Size Range (in.) | Brand Name | Order No. | Price |
| 11 | 1/8 - 3/4 | Techniks | **TE130400811S** | Price |
| 22 | 1/8 - 3/4 | Techniks | **TE130400822S** | Price |
| 43 | 1/8 - 3/4 | Techniks | **TE130400843S** | Price |



| Collet Style - Metric | | | |
|---|---|---|---|
| No. of Collets | Type | Order No. | Price |
| 9 | ER8 | **GM20712108000** | Price |
| 13 | ER11 | **GM20712111000** | Price |
| 10 | ER16 | **GM20712116000** | Price |
| 12 | ER20 | **GM20712120000** | Price |
| 15 | ER25 | **GM20712125000** | Price |
| 18 | ER32 | **GM20712132000** | Price |
| 40 | ER40 | **GM20712140000** | Price |
| 12 | ER50 | **GM20712150000** | Price |

# Ultra Precision Collets - Inch

**RAPIDHOLD ULTRA PRECISION COLLETS:**

- Inch & Metric sizes
- Made with high quality bearing steel and heat treated for high flexibilty and long life
- Made in DIN6499 - 0..0002" T.I.R.
- Wide clamping range with 0.02 - 0.039" collapsibility

**REGO-FIX ER ULTRA PRECISION COLLETS:**

- High precision collets combine the advantages of DIN 6499/ ISO 15488 A + B
- T.I.R. ≤ 5µm over the entire clamping range
- Clamping range from diameter 0.2mm up to 36mm

**PARLEC ER GRADE AA 5 MICRON COLLETS:**

- Evenly distributed cutting edges for high performace machining .0002" (5 micron) gage tolerance
- Exceeds DIN requirements
- 12 slots, deburred and polished
- Increased grip force with reduced friction to collet seat



| Collet Style/Fits - ER8 | | |
|---|---|---|
| | Rego-Fix | |
| ID | Order No. | Price |
| 1/16 | GM20110801593 | Price |
| 1/8 | GM20110803183 | Price |
| 3/16 | GM20110804763 | Price |

| Collet Style/Fits - ER11 | | | | | | |
|---|---|---|---|---|---|---|
| | Parlec | | Rego-Fix | | Techniks | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price |
| 1/16 | GM935UMER110062 | Price | GM20111101593 | Price | TE14UP04211116 | Price |
| 3/32 | GM935UMER110093 | Price | GM20111102383 | Price | TE14UP04211332 | Price |
| 1/8 | GM935UMER110125 | Price | GM20111103183 | Price | TE14UP0421118 | Price |
| 5/32 | GM935UMER110156 | Price | GM20111103973 | Price | TE14UP04211532 | Price |
| 3/16 | GM935UMER110187 | Price | GM20111104763 | Price | TE14UP04211316 | Price |
| 7/32 | GM935UMER110218 | Price | GM20111105563 | Price | TE14UP04211732 | Price |
| 1/4 | GM935UMER110250 | Price | GM20111106353 | Price | TE14UP0421114 | Price |

| Collet Style/Fits - ER16 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | Parlec | | Rego-Fix | | Techniks | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 1/16 | TS1828216 | Price | GM935UMER160062 | Price | GM20111601593 | 94.00 | TE14UP04216116 | Price |
| 3/32 | TS1828217 | Price | GM935UMER160093 | Price | GM20111602383 | 76.00 | TE14UP04216332 | Price |
| 1/8 | TS1828218 | Price | GM935UMER160125 | Price | GM20111603183 | 66.00 | TE14UP0421618 | Price |
| 5/32 | TS1828219 | Price | GM935UMER160156 | Price | GM20111603973 | 66.00 | TE14UP04216532 | Price |
| 3/16 | TS1828220 | Price | GM935UMER160187 | Price | GM20111604763 | 66.00 | TE14UP04216316 | Price |
| 7/32 | TS1828221 | Price | GM935UMER160218 | Price | GM20111605563 | 66.00 | TE14UP04216732 | Price |
| 1/4 | TS1828222 | Price | GM935UMER160250 | Price | GM20111606353 | 66.00 | TE14UP0421614 | Price |
| 9/32 | TS1828223 | Price | GM935UMER160281 | Price | GM20111607143 | 66.00 | TE14UP04216932 | Price |
| 5/16 | TS1828224 | Price | GM935UMER160312 | Price | GM20111607943 | 66.00 | TE14UP04216516 | Price |
| 11/32 | TS1828225 | Price | GM935UMER160343 | Price | GM20111608733 | 66.00 | TE14UP042161132 | Price |
| 3/8 | TS1828226 | Price | GM935UMER160375 | Price | GM20111609533 | 66.00 | TE14UP0421638 | Price |
| 13/32 | TS1828227 | Price | GM935UMER160406 | Price | GM20111610323 | 66.00 | TE14UP042161332 | Price |

| Collet Style/Fits - ER20 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | Parlec | | Rego-Fix | | Techniks | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 1/16 | - | - | - | - | - | - | TE14UP04220116 | Price |
| 3/32 | TS1828253 | Price | - | - | - | - | TE14UP04220332 | Price |
| 1/8 | TS1828254 | Price | GM935UMER200125 | Price | GM20112003183 | Price | TE14UP0422018 | Price |
| 5/32 | TS1828255 | Price | - | - | - | - | TE14UP04220532 | Price |
| 3/16 | TS1828256 | Price | GM935UMER200187 | Price | GM20112004763 | Price | TE14UP04220316 | Price |
| 7/32 | TS1828257 | Price | - | - | - | - | TE14UP04220732 | Price |
| 1/4 | TS1828258 | Price | GM935UMER200250 | Price | GM20112006353 | Price | TE14UP0422014 | Price |
| 9/32 | TS1828259 | Price | - | - | - | - | TE14UP04220932 | Price |
| 5/16 | TS1828260 | Price | GM935UMER200312 | Price | GM20112007943 | Price | TE14UP04220516 | Price |
| 11/32 | TS1828261 | Price | - | - | - | - | TE14UP042201132 | Price |
| 3/8 | TS1828262 | Price | GM935UMER200375 | Price | GM20112009533 | Price | TE14UP0422038 | Price |
| 13/32 | TS1828263 | Price | - | - | - | - | TE14UP042201332 | Price |
| 7/16 | TS1828264 | Price | GM935UMER200437 | Price | - | - | TE14UP04220716 | Price |
| 15/32 | TS1828265 | Price | - | - | - | - | TE14UP042201532 | Price |
| 1/2 | TS1828266 | Price | GM935UMER200500 | Price | GM20112012703 | Price | TE14UP0422012 | Price |

## Ultra Precision Collets - Inch (cont.)

RAPIDHOLD PARLEC

| Collet Style/Fits - ER25 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | Parlec | | Rego-Fix | | Techniks | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 1/16 | TS1828286 | Price | - | - | - | - | TE14UP04225116 | Price |
| 3/32 | TS1828287 | Price | - | - | - | - | TE14UP04225332 | Price |
| 1/8 | TS1828288 | Price | GM935UMER250125 | Price | GM20112503183 | Price | TE14UP0422518 | Price |
| 5/32 | TS1828289 | Price | - | - | - | - | TE14UP04225532 | Price |
| 3/16 | TS1828290 | Price | GM935UMER250187 | Price | GM20112504763 | Price | TE14UP04225316 | Price |
| 7/32 | TS1828291 | Price | - | - | - | - | TE14UP04225732 | Price |
| 1/4 | TS1828292 | Price | GM935UMER250250 | Price | GM20112506353 | Price | TE14UP0422514 | Price |
| 9/32 | TS1828293 | Price | - | - | - | - | TE14UP04225932 | Price |
| 5/16 | TS1828294 | Price | GM935UMER250312 | Price | GM20112507943 | Price | TE14UP04225516 | Price |
| 11/32 | TS1828295 | Price | - | - | - | - | TE14UP042251132 | Price |
| 3/8 | TS1828296 | Price | GM935UMER250375 | Price | GM20112509533 | Price | TE14UP0422538 | Price |
| 13/32 | TS1828297 | Price | - | - | - | - | - | - |
| 7/16 | TS1828298 | Price | GM935UMER250437 | Price | GM20112511113 | Price | TE14UP04225716 | Price |
| 15/32 | TS1828299 | Price | - | - | - | - | TE14UP042251532 | Price |
| 1/2 | TS1828300 | Price | GM935UMER250500 | Price | GM20112512703 | Price | TE14UP0422512 | Price |
| 17/32 | TS1828301 | Price | - | - | - | - | TE14UP042251732 | Price |
| 9/16 | TS1828302 | Price | GM935UMER250562 | Price | GM20112514293 | Price | TE14UP04225916 | Price |
| 19/32 | TS1828303 | Price | - | - | - | - | TE14UP042251932 | Price |
| 5/8 | TS1828304 | Price | GM935UMER250625 | Price | GM20112515883 | Price | TE14UP0422558 | Price |

RAPIDHOLD PARLEC

| Collet Style/Fits - ER32 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | Parlec | | Rego-Fix | | Techniks | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 3/32 | - | - | - | - | - | - | TE14UP04232332 | Price |
| 1/8 | TS1828326 | Price | GM935UMER320125 | Price | GM20113203183 | Price | TE14UP0423218 | Price |
| 5/32 | TS1828327 | Price | Price | - | - | - | TE14UP04232532 | Price |
| 3/16 | TS1828328 | Price | Price | Price | GM20113204763 | Price | TE14UP04232316 | Price |
| 7/32 | TS1828329 | Price | Price | - | - | - | TE14UP04232732 | Price |
| 1/4 | TS1828330 | Price | Price | Price | GM20113206353 | Price | TE14UP0423214 | Price |
| 9/32 | TS1828331 | Price | Price | - | - | - | TE14UP04232932 | Price |
| 5/16 | TS1828332 | Price | Price | Price | GM20113207943 | Price | TE14UP04232516 | Price |
| 11/32 | TS1828333 | Price | Price | - | - | - | TE14UP042321132 | Price |
| 3/8 | TS1828334 | Price | Price | Price | GM20113209533 | Price | TE14UP0423238 | Price |
| 13/32 | TS1828335 | Price | Price | - | - | - | TE14UP042321332 | Price |
| 7/16 | TS1828336 | Price | Price | Price | GM20113211113 | Price | TE14UP04232716 | Price |
| 15/32 | TS1828337 | Price | Price | - | - | - | TE14UP042321532 | Price |
| 1/2 | TS1828338 | Price | Price | Price | GM20113212703 | Price | TE14UP0423212 | Price |
| 17/32 | TS1828339 | Price | Price | - | - | - | TE14UP042321732 | Price |
| 9/16 | TS1828340 | Price | Price | Price | GM20113214293 | Price | TE14UP04232916 | Price |
| 19/32 | TS1828341 | Price | Price | - | - | - | TE14UP042321932 | Price |
| 5/8 | TS1828342 | Price | Price | Price | GM20113215883 | Price | TE14UP0423258 | Price |
| 21/32 | TS1828343 | Price | Price | - | - | - | TE14UP042322132 | Price |
| 11/16 | TS1828344 | Price | Price | Price | GM20113217463 | Price | TE14UP042321116 | Price |
| 23/32 | TS1828345 | Price | Price | - | - | - | TE14UP042322332 | Price |
| 3/4 | TS1828346 | Price | Price | Price | GM20113219053 | Price | TE14UP0423234 | Price |
| 13/16 | TS1828348 | Price | Price | Price | GM20113220643 | Price | TE14UP042321316 | Price |
| 25/32 | TS1828347 | Price | Price | - | - | - | TE14UP042322532 | Price |

RAPIDHOLD PARLEC

| Collet Style/Fits - ER40 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | Parlec | | Rego-Fix | | Techniks | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 1/8 | TS1828373 | Price | GM935UMER400125 | Price | GM20114003183 | Price | TE14UP0424018 | Price |
| 5/32 | TS1828374 | Price | - | - | - | - | TE14UP04240532 | Price |
| 3/16 | TS1828375 | Price | GM935UMER400187 | Price | GM20114004763 | Price | TE14UP04240316 | Price |
| 7/32 | TS1828376 | Price | - | - | - | - | TE14UP04240732 | Price |
| 1/4 | TS1828377 | Price | GM935UMER400250 | Price | GM20114006353 | Price | TE14UP0424014 | Price |
| 9/32 | TS1828378 | Price | - | - | - | - | TE14UP04240932 | Price |
| 5/16 | TS1828379 | Price | GM935UMER400312 | Price | GM20114007943 | Price | TE14UP04240516 | Price |
| 11/32 | TS1828380 | Price | - | - | - | - | TE14UP042401132 | Price |
| 3/8 | TS1828381 | Price | GM935UMER400375 | Price | GM20114009533 | Price | TE14UP0424038 | Price |
| 13/32 | TS1828382 | Price | - | - | - | - | TE14UP042401332 | Price |
| 7/16 | TS1828383 | Price | GM935UMER400437 | Price | GM20114011113 | Price | TE14UP04240716 | Price |
| 15/32 | TS1828384 | Price | - | - | - | - | TE14UP042401532 | Price |
| 1/2 | TS1828385 | Price | GM935UMER400500 | Price | GM20114012703 | Price | TE14UP0424012 | Price |
| 17/32 | TS1828386 | Price | - | - | - | - | TE14UP042401732 | Price |
| 9/16 | TS1828387 | Price | GM935UMER400590 | Price | GM20114014293 | Price | TE14UP04240916 | Price |
| 5/8 | TS1828389 | Price | GM935UMER400625 | Price | GM20114015883 | Price | TE14UP0424058 | Price |
| 11/16 | TS1828391 | Price | GM935UMER400687 | Price | GM20114017463 | Price | TE14UP042401116 | Price |
| 3/4 | TS1828393 | Price | GM935UMER400750 | Price | GM20114019053 | Price | TE14UP0424034 | Price |
| 25/32 | TS1828394 | Price | - | - | - | - | TE14UP042402532 | Price |
| 13/16 | TS1828395 | Price | GM935UMER400812 | Price | GM20114020643 | Price | TE14UP042401316 | Price |
| 27/32 | TS1828396 | Price | - | - | - | - | TE14UP042402732 | Price |
| 7/8 | TS1828397 | Price | GM935UMER400875 | Price | GM20114022233 | Price | TE14UP0424078 | Price |
| 29/32 | TS1828398 | Price | - | - | - | - | TE14UP042402932 | Price |
| 15/16 | TS1828399 | Price | - | - | - | - | TE14UP042401516 | Price |
| 31/32 | TS1828400 | Price | - | - | - | - | TE14UP042403132 | Price |
| 1 | TS1828401 | Price | GM935UMER401000 | Price | GM20114025403 | Price | TE14UP042401 | Price |

## Ultra Precision Collets - Inch (cont.)

| Collet Style/Fits - ER50 | |
|---|---|
| | Rego-Fix |
| ID | Order No. | Price |
| 31/32 | GM20115025001 | Price |
| 3/16 | GM20115006001 | Price |
| 1/4 | GM20115008001 | Price |
| 3/8 | GM20115010001 | Price |
| 7/16 | GM20115012001 | Price |
| 1/2 | GM20115014001 | Price |
| 5/8 | GM20115016001 | Price |
| 11/16 | GM20115018001 | Price |

| Collet Style/Fits - ER50 | | |
|---|---|---|
| | Rego-Fix | |
| ID | Order No. | Price |
| 3/4 | GM20115020001 | Price |
| 13/16 | GM20115022001 | Price |
| 7/8 | GM20115024001 | Price |
| 1 | GM20115026001 | Price |
| 1-1/16 | GM20115028001 | Price |
| 1-1/8 | GM20115030001 | Price |
| 1-1/4 | GM20115032001 | Price |
| 1-5/16 | GM20115034001 | Price |
| 1-3/8 | GM20115036001 | Price |

## Ultra Precision Collets - Metric

**REGO-FIX ER ULTRA PRECISION COLLETS:**

- High precision collets combine the advantages of DIN 6499/ISO 15488 A + B
- T.I.R. ≤ 5µm over the entire clamping range
- Clamping range from diameter 0.2mm up to 36mm

**PARLEC GRADE AA 5 MICRON COLLETS:**

- Evenly distributed cutting edges for high performace machining .0002" (5 micron) gage tolerance
- Exceeds DIN requirements
- 12 slots, deburred and polished
- Increased grip force with reduced friction to collet seat



| Collet Style/Fits - ER8 | |
|---|---|
| | Rego-Fix |
| ID | Order No. | Price |
| 1mm | GM20110801001 | Price |
| 1.5mm | GM20110801501 | Price |
| 2mm | GM20110802001 | Price |
| 2.5mm | GM20110802501 | Price |
| 3mm | GM20110803001 | Price |
| 3.5mm | GM20110803501 | Price |
| 4mm | GM20110804001 | Price |
| 4.5mm | GM20110804501 | Price |
| 5mm | GM20110805001 | Price |

PARLEC

| Collet Style/Fits - ER11 | | | | |
|---|---|---|---|---|
| | Parlec | | Rego-Fix | |
| ID | Order No. | Price | Order No. | Price |
| 1mm | GM935UMER110039 | Price | GM20111101001 | Price |
| 1.5mm | GM935UMER110059 | Price | GM20111101501 | Price |
| 2mm | GM935UMER110078 | Price | GM20111102001 | Price |
| 2.5mm | GM935UMER110098 | Price | GM20111102501 | Price |
| 3mm | GM935UMER110118 | Price | GM20111103001 | Price |
| 3.5mm | GM935UMER110137 | Price | GM20111103501 | Price |
| 4mm | GM935UMER110157 | Price | GM20111104001 | Price |
| 4.5mm | GM935UMER110177 | Price | GM20111104501 | Price |
| 5mm | GM935UMER110196 | Price | GM20111105001 | Price |
| 5.5mm | GM935UMER110216 | Price | GM20111105501 | Price |
| 6mm | GM935UMER110236 | Price | GM20111106001 | Price |
| 6.5mm | GM935UMER110255 | Price | GM20111106501 | Price |
| 7mm | GM935UMER110275 | Price | GM20111107001 | Price |

PARLEC

| Collet Style/Fits - ER16 | | | | | | |
|---|---|---|---|---|---|---|
| | Parlec | | Rego-Fix | | Techniks | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price |
| 1mm | GM935UMER160039 | Price | GM20111601001 | Price | TE14UP0421601 | Price |
| 1.5mm | - | - | GM20111601501 | Price | - | - |
| 2mm | GM935UMER160078 | Price | GM20111602001 | Price | - | - |
| 2.5mm | - | - | GM20111602501 | Price | - | - |
| 3mm | GM935UMER160118 | Price | GM20111603001 | Price | - | - |
| 3.5mm | - | - | GM20111603501 | Price | - | - |
| 4mm | GM935UMER160157 | Price | GM20111604001 | Price | - | - |
| 4.5mm | - | - | GM20111604501 | Price | - | - |
| 5mm | GM935UMER160196 | Price | GM20111605001 | Price | - | - |
| 5.5mm | - | - | GM20111605501 | Price | - | - |

PARLEC

| Collet Style/Fits - ER16 | | | | | | |
|---|---|---|---|---|---|---|
| | Parlec | | Rego-Fix | | Techniks | |
| ID | Order No. | Price | Order No. | Price | Order No. | Price |
| 6mm | GM935UMER160236 | 48.50 | GM20111606001 | Price | - | - |
| 6.5mm | - | - | GM20111606501 | Price | - | - |
| 7mm | GM935UMER160275 | 48.50 | GM20111607001 | Price | - | - |
| 7.5mm | - | - | GM20111607501 | Price | - | - |
| 8mm | GM935UMER160315 | 48.50 | GM20111608001 | Price | - | - |
| 8.5mm | - | - | GM20111608501 | Price | - | - |
| 9mm | GM935UMER160354 | 48.50 | GM20111609001 | Price | - | - |
| 9.5mm | - | - | GM20111609501 | Price | - | - |
| 10mm | GM935UMER160393 | 48.50 | GM20111610001 | Price | - | - |

PARLEC

| Collet Style/Fits - ER20 | | | | |
|---|---|---|---|---|
| | Parlec | | Rego-Fix | |
| ID | Order No. | Price | Order No. | Price |
| 1mm | - | - | GM20112001001 | Price |
| 1.5mm | - | - | GM20112001501 | Price |
| 2mm | GM935UMER200078 | Price | GM20112002001 | Price |
| 2.5mm | - | - | GM20112002501 | Price |
| 3mm | GM935UMER200118 | Price | GM20112003001 | Price |
| 3.5mm | - | - | GM20112003501 | Price |
| 4mm | GM935UMER200157 | Price | GM20112004001 | Price |
| 4.5mm | - | - | GM20112004501 | Price |
| 5mm | GM935UMER200196 | Price | GM20112005001 | Price |
| 5.5mm | - | - | GM20112005501 | Price |
| 6mm | GM935UMER200236 | Price | GM20112006001 | Price |
| 6.5mm | - | - | GM20112006501 | Price |
| 7mm | GM935UMER200275 | Price | GM20112007001 | Price |
| 7.5mm | - | - | GM20112007501 | Price |
| 8mm | GM935UMER200315 | Price | GM20112008001 | Price |
| 8.5mm | - | - | GM20112008501 | Price |
| 9mm | GM935UMER200354 | Price | GM20112009001 | Price |
| 9.5mm | - | - | GM20112009501 | Price |
| 10mm | GM935UMER200393 | Price | GM20112010001 | Price |
| 10.5mm | - | - | GM20112010501 | Price |
| 11mm | GM935UMER200433 | Price | GM20112011001 | Price |
| 11.5mm | - | - | GM20112011501 | Price |
| 12mm | GM935UMER200472 | Price | GM20112012001 | Price |
| 12.5mm | - | - | GM20112012501 | Price |
| 13mm | GM935UMER200511 | Price | GM20112013001 | Price |

## Ultra Precision Collets - Metric (cont.)

PARLEC

| Collet Style/Fits - ER25 | | | | |
|---|---|---|---|---|
| | Parlec | | Rego-Fix | |
| ID | Order No. | Price | Order No. | Price |
| 1mm | - | - | GM20112501001 | Price |
| 1.5mm | - | - | GM20112501501 | Price |
| 2mm | GM935UMER250078 | Price | GM20112502001 | Price |
| 2.5mm | - | - | GM2012502501 | Price |
| 3mm | GM935UMER250118 | Price | GM20112503001 | Price |
| 3.5mm | - | - | GM20112503501 | Price |
| 4mm | GM935UMER250157 | Price | GM20112504001 | Price |
| 4.5mm | - | - | GM20112504501 | Price |
| 5mm | GM935UMER250196 | Price | GM20112505001 | Price |
| 5.5mm | - | - | GM20112505501 | Price |
| 6mm | GM935UMER250236 | Price | GM20112506001 | Price |
| 6.5mm | - | - | GM20112506501 | Price |
| 7mm | GM935UMER250275 | Price | GM20112507001 | Price |
| 7.5mm | - | - | GM20112507501 | Price |
| 8mm | GM935UMER250315 | Price | GM20112508001 | Price |
| 8.5mm | - | - | GM20112508501 | Price |
| 9mm | GM935UMER250354 | Price | GM20112509001 | Price |
| 9.5mm | - | - | GM20112509501 | Price |
| 10mm | GM935UMER250393 | Price | GM20112510001 | Price |
| 10.5mm | - | - | GM20112510501 | Price |
| 11mm | GM935UMER250433 | Price | GM20112511001 | Price |
| 11.5mm | - | - | GM20112511501 | Price |
| 12mm | GM935UMER250472 | Price | GM20112512001 | Price |
| 12.5mm | - | - | GM20112512501 | Price |
| 13mm | GM935UMER250511 | Price | GM20112513001 | Price |
| 13.5mm | - | - | GM20112513501 | Price |
| 14mm | GM935UMER250551 | Price | GM20112514001 | Price |
| 14.5mm | - | - | GM20112514501 | Price |
| 15mm | GM935UMER250590 | Price | GM20112515001 | Price |
| 15.5mm | - | - | GM20112515501 | Price |
| 16mm | GM935UMER250630 | Price | GM20112516001 | Price |
| 17mm | - | - | GM20112517001 | Price |

PARLEC

| Collet Style/Fits - ER32 | | | | |
|---|---|---|---|---|
| | Parlec | | Rego-Fix | |
| ID | Order No. | Price | Order No. | Price |
| 2mm | - | - | GM20113202001 | Price |
| 2.5mm | - | - | GM20113202501 | Price |
| 3mm | GM935UMER320118 | Price | GM20113203001 | Price |
| 3.5mm | - | - | GM20113203501 | Price |
| 4mm | GM935UMER320157 | Price | GM20113204001 | Price |
| 4.5mm | - | - | GM20113204501 | Price |
| 5mm | GM935UMER320196 | Price | GM20113205001 | Price |
| 5.5mm | - | - | GM20113205501 | Price |
| 6mm | GM935UMER320236 | Price | GM20113206001 | Price |
| 6.5mm | - | - | GM20113206501 | Price |
| 7mm | GM935UMER320275 | Price | GM20113207001 | Price |
| 7.5mm | - | - | GM20113207501 | Price |
| 8mm | GM935UMER320315 | Price | GM20113208001 | Price |
| 8.5mm | - | - | GM20113208501 | Price |
| 9mm | GM935UMER320354 | Price | GM20113209001 | Price |
| 9.5mm | - | - | GM20113209501 | Price |
| 10mm | GM935UMER320393 | Price | GM20113210001 | Price |
| 10.5mm | - | - | GM20113210501 | Price |
| 11mm | GM935UMER320433 | Price | GM20113211001 | Price |
| 11.5mm | - | - | GM20113211501 | Price |
| 12mm | GM935UMER320472 | Price | GM20113212001 | Price |
| 12.5mm | - | - | GM20113212501 | Price |
| 13mm | GM935UMER320511 | Price | GM20113213001 | Price |
| 13.5mm | - | - | GM20113213501 | Price |
| 14mm | GM935UMER320551 | Price | GM20113214001 | Price |
| 14.5mm | - | - | GM20113214501 | Price |
| 15mm | GM935UMER320590 | Price | GM20113215001 | Price |
| 15.5mm | - | - | GM20113215501 | Price |
| 16mm | GM935UMER320630 | Price | GM20113216001 | Price |

PARLEC

| Collet Style/Fits - ER32 | | | | |
|---|---|---|---|---|
| | Parlec | | Rego-Fix | |
| ID | Order No. | Price | Order No. | Price |
| 16.5mm | - | - | GM20113216501 | Price |
| 17mm | GM935UMER320669 | Price | GM20113217001 | Price |
| 17.5mm | - | - | GM20113217501 | Price |
| 18mm | GM935UMER320708 | Price | GM20113218001 | Price |
| 18.5mm | - | - | GM20113218501 | Price |
| 19mm | GM935UMER320748 | Price | GM20113219001 | Price |
| 19.5mm | - | - | GM20113219501 | Price |
| 20mm | GM935UMER320787 | Price | GM20113220001 | Price |
| 21mm | - | - | GM20113221001 | Price |
| 22mm | - | - | GM20113222001 | Price |

PARLEC

| Collet Style/Fits - ER40 | | | | |
|---|---|---|---|---|
| | Parlec | | Rego-Fix | |
| ID | Order No. | Price | Order No. | Price |
| 3mm | - | - | GM20114003001 | Price |
| 3.5mm | - | - | GM20114003501 | Price |
| 4mm | GM935UMER400157 | Price | GM20114004001 | Price |
| 4.5mm | - | - | GM20114004501 | Price |
| 5mm | GM935UMER400196 | Price | GM20114005001 | Price |
| 5.5mm | - | - | GM20114005501 | Price |
| 6mm | GM935UMER400236 | Price | GM20114006001 | Price |
| 6.5mm | - | - | GM20114006501 | Price |
| 7mm | GM935UMER400275 | Price | GM20114007001 | Price |
| 7.5mm | - | - | GM20114007501 | Price |
| 8mm | GM935UMER400315 | Price | GM20114008001 | Price |
| 8.5mm | - | - | GM20114008501 | Price |
| 9mm | GM935UMER400354 | Price | GM20114009001 | Price |
| 9.5mm | - | - | GM20114009501 | Price |
| 10mm | GM935UMER400393 | Price | GM20114010001 | Price |
| 10.5mm | - | - | GM20114010501 | Price |
| 11mm | GM935UMER400433 | Price | GM20114011001 | Price |
| 11.5mm | - | - | GM20114011501 | Price |
| 12mm | GM935UMER400472 | Price | GM20114012001 | Price |
| 12.5mm | - | - | GM20114012501 | Price |
| 13mm | GM935UMER400511 | Price | GM20114013001 | Price |
| 13.5mm | - | - | GM20114013501 | Price |
| 14mm | GM935UMER400551 | Price | GM20114014001 | Price |
| 14.5mm | - | - | GM20114014501 | Price |
| 15mm | GM935UMER400562 | Price | GM20114015001 | Price |
| 15.5mm | - | - | GM20114015501 | Price |
| 16mm | GM935UMER400630 | Price | GM20114016001 | Price |
| 16.5mm | - | - | GM20114016501 | Price |
| 17mm | GM935UMER400669 | Price | GM20114017001 | Price |
| 17.5mm | - | - | GM20114017501 | Price |
| 18mm | GM935UMER400708 | Price | GM20114018001 | Price |
| 18.5mm | - | - | GM20114018501 | Price |
| 19mm | GM935UMER400748 | Price | GM20114019001 | Price |
| 19.5mm | - | - | GM20114019501 | Price |
| 20mm | GM935UMER400787 | Price | GM20114020001 | Price |
| 20.5mm | - | - | GM20114020501 | Price |
| 21mm | GM935UMER400826 | Price | GM20114021001 | Price |
| 21.5mm | - | - | GM20114021501 | Price |
| 22mm | GM935UMER400866 | Price | GM20114022001 | Price |
| 22.5mm | - | - | GM20114022501 | Price |
| 23mm | GM935UMER400905 | Price | GM20114023001 | Price |
| 23.5mm | - | - | GM20114023501 | Price |
| 24mm | GM935UMER400944 | Price | GM20114024001 | Price |
| 24.5mm | - | - | GM20114024501 | Price |
| 25mm | GM935UMER400984 | Price | GM20114025001 | Price |
| 25.5mm | - | - | GM20114025501 | Price |
| 26mm | GM935UMER401023 | Price | GM20114026001 | Price |
| 27mm | - | - | GM20114027001 | Price |
| 28mm | - | - | GM20114028001 | Price |
| 29mm | - | - | GM20114029001 | Price |
| 30mm | - | - | GM20114030001 | Price |

## Ultra Precision Collet Sets

**RAPIDHOLD:**
- Inch & Metric sizes
- Made with high quality Bearing Steel and heat treated for high flexibility and long life
- Made in DIN6499 - 0..0002" T.I.R.
- Wide clamping range with 0.02 - 0.039" collapsibility

**REGO-FIX:**
- High precision collets combine the advantages of DIN 6499/ISO 15488 A + B
- T.I.R. ≤ 5µm over the entire clamping range
- Clamping range from diameter 0.2mm up to 36mm

**TECHNIKS:**
- Made from high-carbon bearing steel and heat treated for improved flexibility and longer life
- .0002" T.I.R. or better
- Clamping range .039"



RAPIDHOLD

| Type - UP Inch Collet Set | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Rapidhold | | Rego-Fix | | Techniks | |
| No. of Collets | Collet Style | Size Range | Order No. | Price | Order No. | Price | Order No. | Price |
| 3 | ER8 | 1/16 - 3/16 | - | - | **GM20110800003** | Price | - | - |
| 7 | ER11 | 1/16 - 1/4 | - | - | **GM20111100003** | Price | **TE14UP04208** | Price |
| 7 | ER20 | 1/8 - 1/2 | - | - | **GM20112000003** | Price | - | - |
| 8 | ER20 | 3/32 - 1/2 | **TS1828267** | Price | - | - | - | - |
| 9 | ER25 | 1/8 - 5/8 | - | - | **GM20112500003** | Price | - | - |
| 10 | ER16 | 3/32 - 3/8 | - | - | - | - | **TE14UP04209** | Price |
| 10 | ER25 | 1/8 - 5/8 | **TS1828305** | Price | - | - | - | - |
| 12 | ER16 | 1/16 - 13/32 | **TS1828228** | Price | **GM20111600003** | Price | - | - |
| 12 | ER20 | 5/32 - 1/2 | - | - | - | - | **TE14UP04210** | Price |
| 12 | ER32 | 1/8 - 13/16 | **TS1828349** | Price | **GM20113200003** | Price | - | - |
| 13 | ER40 | 1/8 - 1 | - | - | - | - | **TE14UP04213** | Price |
| 14 | ER40 | 1/8 - 1 | - | - | **GM20114000003** | Price | - | - |
| 15 | ER40 | 1/8 - 1 | **TS1828402** | Price | - | - | - | - |
| 16 | ER25 | 5/32 - 5/8 | - | - | - | - | **TE14UP04211** | Price |
| 18 | ER32 | 7/32 - 3/4 | - | - | - | - | **TE14UP04212** | Price |

| Type - UP Metric Collet Set | | | | |
|---|---|---|---|---|
| | | | Rego-Fix | |
| No. of Collets | Collet Style | Size Range | Order No. | Price |
| 8 | ER20 | 2mm - 12mm | **GM20112000001** | Price |
| 9 | ER8 | .7mm - 5mm | **GM20110800001** | Price |
| 10 | ER16 | .5mm - 10mm | **GM20111600001** | Price |
| 12 | ER50 | 4mm - 34mm | **GM20115000001** | Price |

| Type - UP Metric Collet Set | | | | |
|---|---|---|---|---|
| | | | Rego-Fix | |
| No. of Collets | Collet Style | Size Range | Order No. | Price |
| 13 | ER11 | 1mm - 7mm | **GM20111100001** | Price |
| 15 | ER25 | 2mm - 16mm | **GM20112500001** | Price |
| 18 | ER32 | 3mm - 20mm | **GM20113200001** | Price |
| 23 | ER40 | 3mm - 26mm | **GM20114000001** | Price |

## ER Steel Sealed Coolant Spring Collet

**Rapidhold:**
- Collet Accuracy: 0.0003" - 0.0004" T.I.R.
- Maximum allowable pressure - 1500 - 2000 PSI
- Made with spring steel

**ETM:**
- High pressure coolant supply up to 1450 PSI
- DIN6499
- Hard touch coating

**Techniks:**
- Sealed to 2000 PSI
- No plugs to fail
- Protects tool holder from contaminants

**Rego Fix DM Collets**
- T.I.R. 0.0002" or better - Guaranteed at 4D over full clamping range
- Seals coolant up to 2000 PSI
- Superior surface finish
- Lot traceability
- Patented design
- Easty to read size markings



| Collet Style/Fits - ER11 | | |
|---|---|---|
| | Rego-Fix | |
| ID (in.) | Order No. | Price |
| 3/16 | **GM20121104762** | Price |
| 7/32 | **GM20121105562** | Price |
| 1/4 | **GM20121106352** | Price |
| 1/8 | **GM20121103182** | Price |

RAPIDHOLD

| Collet Style/Fits - ER16 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | ETM | | Rego-Fix | | Techniks | |
| ID (in.) | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 3/32 | - | - | - | - | - | - | **GM69C16006** | Price |
| 1/8 | **TS1928501** | Price | **GM40S16120159** | Price | **GM20121603182** | Price | **GM69C16008** | Price |
| 5/32 | **TS1928502** | Price | - | - | **GM20121603972** | Price | **GM69C16010** | Price |

## ER Steel Sealed Coolant Spring Collet (cont.)



RAPIDHOLD

| Collet Style/Fits - ER16 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | ETM | | Rego-Fix | | Techniks | |
| ID (in.) | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 3/16 | TS1928503 | Price | GM40S16159199 | Price | GM20121604762 | Price | GM69C16012 | Price |
| 7/32 | TS1928504 | Price | GM40S16199238 | Price | GM20121605562 | Price | GM69C16014 | Price |
| 1/4 | TS1928505 | Price | GM40S16238278 | Price | GM20121606352 | Price | GM69C16016 | Price |
| 9/32 | TS1928506 | Price | - | - | GM20121607142 | Price | GM69C16018 | Price |
| 5/16 | TS1928507 | Price | GM40S16278317 | Price | GM20121607942 | Price | GM69C16020 | Price |
| 11/32 | TS1928508 | Price | GM40S16317356 | Price | GM20121608732 | Price | GM69C16022 | Price |
| 3/8 | TS1928509 | Price | GM40S16356396 | Price | GM20121609532 | Price | GM69C16024 | Price |
| 13/32 | TS1928510 | Price | - | - | GM20121610322 | Price | GM69C16026 | Price |

RAPIDHOLD

| Collet Style/Fits - ER20 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | ETM | | Rego-Fix | | Techniks | |
| ID (in.) | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 11/32 | TS1928541 | Price | GM40S20317356 | Price | GM20122008732 | Price | GM69C20022 | Price |
| 5/32 | TS1928535 | Price | - | - | GM20122003972 | Price | GM69C20010 | Price |
| 7/32 | TS1928537 | Price | GM40S20199238 | Price | GM20122005562 | Price | GM69C20014 | Price |
| 9/32 | TS1928539 | Price | - | - | GM20122007142 | Price | GM69C20018 | Price |
| 1/8 | TS1928534 | Price | GM40S20120159 | Price | GM20122003182 | Price | GM69C20008 | Price |
| 13/32 | TS1928543 | Price | GM40S20396435 | Price | GM20122010322 | Price | GM69C20026 | Price |
| 15/32 | TS1928545 | Price | - | - | GM20122011912 | Price | GM69C20030 | Price |
| 3/16 | TS1928536 | Price | GM40S20159199 | Price | GM20122004762 | Price | GM69C20012 | Price |
| 1/4 | TS1928538 | Price | GM40S20238278 | Price | GM20122006352 | Price | GM69C20016 | Price |
| 5/16 | TS1928540 | Price | GM40S20278317 | Price | GM20122007942 | Price | GM69C20020 | Price |
| 3/8 | TS1928542 | Price | GM40S20356396 | Price | GM20122009532 | Price | GM69C20024 | Price |
| 7/16 | TS1928544 | Price | GM40S20435474 | Price | GM20122011112 | Price | GM69C20028 | Price |
| 1/2 | TS1928546 | Price | GM40S20474514 | Price | GM20122012702 | Price | GM69C20032 | Price |

RAPIDHOLD

| Collet Style/Fits - ER25 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | ETM | | Rego-Fix | | Techniks | |
| ID (in.) | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 7/32 | TS1928569 | Price | GM40S25199238 | Price | GM20122505562 | Price | GM69C25014 | Price |
| 9/32 | TS1928571 | Price | - | - | GM20122507142 | Price | GM69C25018 | Price |
| 11/32 | TS1928573 | Price | GM40S25317356 | Price | GM20122508732 | Price | GM69C25022 | Price |
| 13/32 | TS1928575 | Price | GM40S25396435 | Price | GM20122510322 | Price | GM69C25026 | Price |
| 15/32 | TS1928577 | Price | - | - | GM20122511912 | Price | GM69C25030 | Price |
| 17/32 | TS1928579 | Price | GM40S25514553 | Price | GM20122513492 | Price | GM69C25034 | Price |
| 19/32 | TS1928581 | Price | - | - | GM20122515082 | Price | GM69C25038 | Price |
| 1/8 | TS1928566 | Price | GM40S25120159 | Price | - | - | - | - |
| 5/32 | TS1928567 | Price | - | - | - | - | - | - |
| 3/16 | TS1928568 | Price | GM40S25159199 | Price | - | - | GM69C25012 | Price |
| 1/4 | TS1928570 | Price | GM40S25238278 | Price | GM20122506352 | Price | GM69C25016 | Price |
| 5/16 | TS1928572 | Price | GM40S25278317 | Price | GM20122507942 | Price | GM69C25020 | Price |
| 3/8 | TS1928574 | Price | GM40S25356396 | Price | GM20122509532 | Price | GM69C25024 | Price |
| 7/16 | TS1928576 | Price | GM40S25435474 | Price | GM20122511112 | Price | GM69C25028 | Price |
| 1/2 | TS1928578 | Price | GM40S25474514 | Price | GM20122512702 | Price | GM69C25032 | Price |
| 9/16 | TS1928580 | Price | GM40S25553593 | Price | GM20122514292 | Price | GM69C25036 | Price |
| 5/8 | TS1928582 | Price | GM40S25593632 | Price | GM20122515882 | Price | GM69C25040 | Price |

RAPIDHOLD

| Collet Style/Fits - ER32 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | ETM | | Rego-Fix | | Techniks | |
| ID (in.) | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 9/32 | TS1928610 | Price | - | - | GM20123207142 | Price | GM69C32018 | Price |
| 11/32 | TS1928612 | Price | GM40S32317356 | Price | GM20123208732 | Price | GM69C32022 | Price |
| 13/32 | TS1928614 | Price | GM40S32396435 | Price | GM20123210322 | Price | GM69C32026 | Price |
| 15/32 | TS1928616 | Price | - | - | GM20123211912 | Price | GM69C32030 | Price |
| 17/32 | TS1928618 | Price | GM40S32514553 | Price | GM20123213492 | Price | GM69C32034 | Price |
| 19/32 | TS1928620 | Price | - | - | GM20123215082 | Price | GM69C32038 | Price |
| 1/8 | TS1928605 | Price | GM40S32120159 | Price | - | - | - | - |
| 21/32 | TS1928622 | Price | GM40S32632671 | Price | GM20123216672 | Price | GM69C32042 | Price |
| 5/32 | TS1928606 | Price | - | - | - | - | - | - |
| 23/32 | TS1928624 | Price | - | - | GM20123218262 | Price | GM69C32046 | Price |
| 3/16 | TS1928607 | Price | GM40S32159199 | Price | - | - | GM6904546316 | Price |
| 7/32 | TS1928608 | Price | GM40S32199238 | Price | - | - | GM6904546732 | Price |
| 15/64 | - | - | - | - | - | - | GM69045461564 | Price |

## ER Steel Sealed Coolant Spring Collet (cont.)



RAPIDHOLD

| Collet Style/Fits - ER32 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | ETM | | Rego-Fix | | Techniks | |
| ID (in.) | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 1/4 | TS1928609 | Price | GM40S32238278 | Price | GM20123206352 | Price | GM69C32016 | Price |
| 17/64 | - | - | - | - | - | - | GM69045461764 | Price |
| 5/16 | TS1928611 | Price | GM40S32278317 | Price | GM20123207942 | Price | GM69C32020 | Price |
| 3/8 | TS1928613 | Price | GM40S32356396 | Price | GM20123209532 | Price | GM69C32024 | Price |
| 27/64 | - | - | - | - | - | - | GM69045462764 | Price |
| 7/16 | TS1928615 | Price | GM40S32435474 | Price | GM20123211112 | Price | GM69C32028 | Price |
| 1/2 | TS1928617 | Price | GM40S32474514 | Price | GM20123212702 | Price | GM69C32032 | Price |
| 35/64 | - | - | - | - | - | - | GM69045463564 | Price |
| 9/16 | TS1928619 | Price | GM40S32553593 | Price | GM20123214292 | Price | GM69C32036 | Price |
| 5/8 | TS1928621 | Price | GM40S32593632 | Price | GM20123215882 | Price | GM69C32040 | Price |
| 11/16 | TS1928623 | Price | GM40S32671711 | Price | GM20123217462 | Price | GM69C32044 | Price |
| 3/4 | TS1928625 | Price | - | - | GM20123219052 | Price | GM69C32048 | Price |
| 25/32 | TS1928626 | Price | GM40S32750789 | Price | - | - | GM69045462532 | Price |
| 13/16 | TS1928627 | Price | - | - | - | - | - | - |

RAPIDHOLD

| Collet Style/Fits - ER40 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Rapidkut | | ETM | | Rego-Fix | | Techniks | |
| ID (in.) | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 1/8 | TS1928654 | Price | GM40S40120159 | Price | - | - | - | - |
| 5/32 | TS1928655 | Price | - | - | - | - | - | - |
| 3/16 | TS1928656 | Price | GM40S40159199 | Price | - | - | - | - |
| 7/32 | TS1928657 | Price | GM40S40199238 | Price | - | - | - | - |
| 1/4 | TS1928658 | Price | GM40S40238278 | Price | GM20124006352 | Price | GM690454714 | Price |
| 9/32 | TS1928659 | Price | - | - | - | - | GM6904547932 | Price |
| 5/16 | TS1928660 | Price | GM40S40278317 | Price | GM20124007942 | Price | GM6904547516 | Price |
| 11/32 | TS1928661 | Price | GM40S40317356 | Price | - | - | GM69045471132 | Price |
| 3/8 | TS1928662 | Price | GM40S40356396 | Price | GM20124009532 | Price | GM69C40024 | Price |
| 13/32 | TS1928663 | Price | GM40S40396435 | Price | - | - | GM69C40026 | Price |
| 7/16 | TS1928664 | Price | GM40S40435474 | Price | GM20124011112 | Price | GM69C40028 | Price |
| 15/32 | TS1928665 | Price | - | - | - | - | GM69C40030 | Price |
| 1/2 | TS1928666 | Price | GM40S40474514 | Price | GM20124012702 | Price | GM69C40032 | Price |
| 17/32 | TS1928667 | Price | GM40S40514553 | Price | - | - | GM69C40034 | Price |
| 9/16 | TS1928668 | Price | GM40S40553593 | Price | GM20124014292 | Price | GM69C40036 | Price |
| 19/32 | TS1928669 | Price | - | - | - | - | GM69C40038 | Price |
| 5/8 | TS1928670 | Price | GM40S40593632 | Price | GM20124015882 | Price | GM69C40040 | Price |
| 21/32 | TS1928671 | Price | GM40S40632671 | Price | - | - | GM69C40042 | Price |
| 11/16 | TS1928672 | Price | GM40S40671711 | Price | GM20124017462 | Price | GM69C40044 | Price |
| 23/32 | TS1928673 | Price | - | - | - | - | GM69C40046 | Price |
| 3/4 | TS1928674 | Price | GM40S40711750 | Price | GM20124019052 | Price | GM69C40048 | Price |
| 25/32 | TS1928675 | Price | GM40S40750789 | Price | - | - | GM69045472532 | Price |
| 13/16 | TS1928676 | Price | GM40S40789829 | Price | GM20124020642 | Price | GM69045471316 | Price |
| 27/32 | TS1928677 | Price | GM40S40829868 | Price | - | - | - | - |
| 7/8 | TS1928678 | Price | GM40S40868907 | Price | GM20124022232 | Price | GM69C40056 | Price |
| 29/32 | TS1928679 | Price | - | - | - | - | - | - |
| 15/16 | TS1928680 | Price | GM40S40907947 | Price | - | - | GM69045471516 | Price |
| 31/32 | TS1928681 | Price | GM40S40947986 | Price | - | - | - | - |
| 1 | TS1928682 | Price | GM40S409861025 | Price | GM20124025402 | Price | GM69C40100 | Price |

| Collet Style/Fits - ER50 | | |
|---|---|---|
| | Techniks | |
| ID (in.) | Order No. | Price |
| 1 | GM69045481 | Price |
| 1/2 | GM690454812 | Price |
| 1/4 | GM690454814 | Price |
| 1-1/4 | GM6904548114 | Price |
| 1-1/8 | GM6904548118 | Price |

| Collet Style/Fits - ER50 | | |
|---|---|---|
| | Techniks | |
| ID (in.) | Order No. | Price |
| 1-3/8 | GM6904548138 | Price |
| 3/4 | GM690454834 | Price |
| 3/8 | GM690454838 | Price |
| 5/8 | GM690454858 | Price |
| 7/8 | GM690454878 | Price |

# ER Metric Steel Sealed Coolant Spring Collets

**Rapidhold:**
- Collet accuracy: 0.0003” - 0.0004” T.I.R.
- Maximum allowable pressure: 1500 - 2000 PSI
- Made with spring steel

**Techniks:**
- Sealed to 2000 PSI
- No plugs to fail
- Protects tool holder from contaminants

**Rego Fix:**
- Made to DIN 6499 / ISO 15488
- T.I.R. ≤6 µm over the entire clamping range
- Clamping range from 2.93 - 6.35mm diameter
- Metallic sealed up to 300 bar coolant pressure
- Clamping range smaller to the standard collets



| Collet Style/Fits - ER11-DM | | |
|---|---|---|
| | Rego-Fix | |
| ID (in.) | Order No. | Price |
| 3mm | GM20121103000 | Price |
| 4mm | GM20121104000 | Price |
| 5mm | GM20121105000 | Price |
| 6mm | GM20121106000 | Price |
| 7mm | GM20121107000 | Price |

RAPIDHOLD

| Collet Style/Fits - ER16 | | | | | | |
|---|---|---|---|---|---|---|
| | Rapidhold | | Rego-Fix | | Techniks | |
| ID (in.) | Order No. | Price | Order No. | Price | Order No. | Price |
| 3mm | TS1928515 | Price | GM20121603000 | Price | GM69C163MM | Price |
| 4mm | TS1928517 | Price | GM20121604000 | Price | GM69C164MM | Price |
| 5mm | TS1928519 | Price | GM20121605000 | Price | GM69C165MM | Price |
| 6mm | TS1928521 | Price | GM20121606000 | Price | GM69C166MM | Price |
| 3.5mm | TS1928516 | Price | - | - | - | - |
| 7mm | TS1928523 | Price | GM20121607000 | Price | GM69C167MM | Price |
| 8mm | TS1928525 | Price | GM20121608000 | Price | GM69C168MM | Price |
| 9mm | TS1928527 | Price | GM20121609000 | Price | GM69C169MM | Price |
| 10mm | TS1928529 | Price | GM20121610000 | Price | GM69C1610MM | Price |
| 4.5mm | TS1928518 | Price | - | - | - | - |
| 5.5mm | TS1928520 | Price | - | - | - | - |
| 6.5mm | TS1928522 | Price | - | - | - | - |
| 7.5mm | TS1928524 | Price | - | - | - | - |
| 8.5mm | TS1928526 | Price | - | - | - | - |
| 9.5mm | TS1928528 | Price | - | - | - | - |

RAPIDHOLD

| Collet Style/Fits - ER20 | | | | | | |
|---|---|---|---|---|---|---|
| | Rapidhold | | Rego-Fix | | Techniks | |
| ID (in.) | Order No. | Price | Order No. | Price | Order No. | Price |
| 3mm | TS1928551 | Price | GM20122003000 | Price | GM69C203MM | Price |
| 4mm | TS1928552 | Price | GM20122004000 | Price | GM69C204MM | Price |
| 5mm | TS1928553 | Price | GM20122005000 | Price | GM69C205MM | Price |
| 6mm | TS1928554 | Price | GM20122006000 | Price | GM69C206MM | Price |
| 7mm | TS1928555 | Price | GM20122007000 | Price | GM69C207MM | Price |
| 8mm | TS1928556 | Price | GM20122008000 | Price | GM69C208MM | Price |
| 9mm | TS1928557 | Price | GM20122009000 | Price | GM69C209MM | Price |
| 10mm | TS1928558 | Price | GM20122010000 | Price | GM69C2010MM | Price |
| 11mm | TS1928559 | Price | GM20122011000 | Price | GM69C2011MM | Price |
| 12mm | TS1928560 | Price | GM20122012000 | Price | GM69C2012MM | Price |
| 13mm | TS1928561 | Price | GM20122013000 | Price | GM69C2013MM | Price |
| 14mm | - | - | - | - | GM69C2014MM | Price |

RAPIDHOLD

| Collet Style/Fits - ER25 | | | | | | |
|---|---|---|---|---|---|---|
| | Rapidhold | | Rego-Fix | | Techniks | |
| ID (in.) | Order No. | Price | Order No. | Price | Order No. | Price |
| 3mm | TS1928587 | Price | - | - | GM69C253MM | Price |
| 4mm | TS1928588 | Price | - | - | GM69C254MM | Price |
| 5mm | TS1928589 | Price | - | - | GM69C255MM | Price |
| 6mm | TS1928590 | Price | GM20122506000 | Price | GM69C256MM | Price |
| 7mm | TS1928591 | Price | GM20122507000 | Price | GM69C257MM | Price |
| 8mm | TS1928592 | Price | GM20122508000 | Price | GM69C258MM | Price |
| 9mm | TS1928593 | Price | GM20122509000 | Price | GM69C259MM | Price |
| 10mm | TS1928594 | Price | GM20122510000 | Price | GM69C2510MM | Price |
| 11mm | TS1928595 | Price | GM20122511000 | Price | GM69C2511MM | Price |
| 12mm | TS1928596 | Price | GM20122512000 | Price | GM69C2512MM | Price |
| 13mm | TS1928597 | Price | GM20122513000 | Price | GM69C2513MM | Price |

RAPIDHOLD

| Collet Style/Fits - ER25 | | | | | | |
|---|---|---|---|---|---|---|
| | Rapidhold | | Rego-Fix | | Techniks | |
| ID (in.) | Order No. | Price | Order No. | Price | Order No. | Price |
| 14mm | TS1928598 | 37.80 | GM20122514000 | 79.00 | GM69C2514MM | 49.00 |
| 15mm | TS1928599 | 37.80 | GM20122515000 | 79.00 | GM69C2515MM | 49.00 |
| 16mm | TS1928600 | 37.80 | GM20122516000 | 79.00 | GM69C2516MM | 49.00 |

RAPIDHOLD

| Collet Style/Fits - ER32 | | | | | | |
|---|---|---|---|---|---|---|
| | Rapidhold | | Rego-Fix | | Techniks | |
| ID (in.) | Order No. | Price | Order No. | Price | Order No. | Price |
| 3mm | TS1928632 | Price | - | - | GM69C323MM | Price |
| 4mm | TS1928633 | Price | - | - | GM69C324MM | Price |
| 5mm | TS1928634 | Price | - | - | GM69C325MM | Price |
| 6mm | TS1928635 | Price | GM20123206000 | Price | GM69C326MM | Price |
| 7mm | TS1928636 | Price | GM20123207000 | Price | GM69C327MM | Price |
| 8mm | TS1928637 | Price | GM20123208000 | Price | GM69C328MM | Price |
| 9mm | TS1928638 | Price | GM20123209000 | Price | GM69C329MM | Price |
| 10mm | TS1928639 | Price | GM20123210000 | Price | GM69C3210MM | Price |
| 11mm | TS1928640 | Price | GM20123211000 | Price | GM69C3211MM | Price |
| 12mm | TS1928641 | Price | GM20123212000 | Price | GM69C3212MM | Price |
| 13mm | TS1928642 | Price | GM20123213000 | Price | GM69C3213MM | Price |
| 14mm | TS1928643 | Price | GM20123214000 | Price | GM69C3214MM | Price |
| 15mm | TS1928644 | Price | GM20123215000 | Price | GM69C3215MM | Price |
| 16mm | TS1928645 | Price | GM20123216000 | Price | GM69C3216MM | Price |
| 17mm | TS1928646 | Price | GM20123217000 | Price | GM69C3217MM | Price |
| 18mm | TS1928647 | Price | GM20123218000 | Price | GM69C3218MM | Price |
| 19mm | TS1928648 | Price | GM20123219000 | Price | GM69C3219MM | Price |
| 20mm | TS1928649 | Price | GM20123220000 | Price | GM69C3220MM | Price |

RAPIDHOLD

| Collet Style/Fits - ER40 | | | | | | |
|---|---|---|---|---|---|---|
| | Rapidhold | | Rego-Fix | | Techniks | |
| ID (in.) | Order No. | Price | Order No. | Price | Order No. | Price |
| 4mm | TS1928687 | Price | - | - | - | - |
| 5mm | TS1928688 | Price | - | - | GM69C405MM | Price |
| 6mm | TS1928689 | Price | GM20124006000 | Price | GM69C406MM | Price |
| 7mm | TS1928690 | Price | - | - | GM69C407MM | Price |
| 8mm | TS1928691 | Price | GM20124008000 | Price | GM69C408MM | Price |
| 9mm | TS1928692 | Price | - | - | GM69C409MM | Price |
| 10mm | TS1928693 | Price | GM20124010000 | Price | GM69C4010MM | Price |
| 11mm | TS1928694 | Price | GM20124011000 | Price | GM69C4011MM | Price |
| 12mm | TS1928695 | Price | GM20124012000 | Price | GM69C4012MM | Price |
| 13mm | TS1928696 | Price | GM20124013000 | Price | GM69C4013MM | Price |
| 14mm | TS1928697 | Price | GM20124014000 | Price | GM69C4014MM | Price |
| 15mm | TS1928698 | Price | GM20124015000 | Price | GM69C4015MM | Price |
| 16mm | TS1928699 | Price | GM20124016000 | Price | GM69C4016MM | Price |
| 17mm | TS1928700 | Price | GM20124017000 | Price | GM69C4017MM | Price |
| 18mm | TS1928701 | Price | GM20124018000 | Price | GM69C4018MM | Price |
| 19mm | TS1928702 | Price | GM20124019000 | Price | GM69C4019MM | Price |
| 20mm | TS1928703 | Price | GM20124020000 | Price | GM69C4020MM | Price |
| 21mm | TS1928704 | Price | GM20124021000 | Price | GM69C4021MM | Price |
| 22mm | TS1928705 | Price | GM20124022000 | Price | - | - |
| 23mm | TS1928706 | Price | GM20124023000 | Price | - | - |
| 24mm | TS1928707 | Price | GM20124024000 | Price | - | - |
| 25mm | TS1928708 | Price | GM20124025000 | Price | GM69C4025MM | Price |
| 26mm | TS1928709 | Price | GM20124026000 | Price | GM69C4026MM | Price |

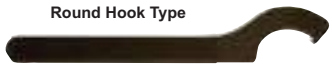
## DM Metallic Sealed Collet Sets

- Made to DIN 6499/ISO 15488
- T.I.R. ≤ 6 µm over the entire claming range
- Clamping range from diameter 2.75-7.00 mm
- Metallic sealed up to 300 bar coolant pressure
- Clamping range smaller to the standard collets



| Size Range | Collet Style | No. of Collets | Order No. | Price |
|---|---|---|---|---|
| .1250 - .2500 | ER11 | 4 | GM20121100002 | Price |
| .1250 - .3750 | ER16 | 5 | GM20121600002 | Price |
| .1250 - .5000 | ER20 | 7 | GM20122000002 | Price |
| .2500 - .6250 | ER25 | 7 | GM20122500002 | Price |
| .2500 - .7500 | ER32 | 9 | GM20123200002 | Price |
| .3556 - 1000 | ER40 | 10 | GM20124000002 | Price |
| 3mm - 10mm | ER16 | 8 | GM20121600000 | Price |
| 3mm - 13mm | ER20 | 11 | GM20122000000 | Price |
| 3mm - 7mm | ER11 | 5 | GM20121100000 | Price |
| 6mm - 16mm | ER25 | 6 | GM20122500000 | Price |
| 6mm - 20mm | ER32 | 8 | GM20123200000 | Price |
| 6mm - 26mm | ER40 | 12 | GM20124000000 | Price |

## RAPIDHOLD™ Wrenches







| For Collet Type - DA100 | | |
|---|---|---|
| **Size** | **Order No.** | **Price** |
| 15/16 | **TS1029033** | Price |
| 1 | **TS1029034** | Price |

| For Collet Type - DA180 | | |
|---|---|---|
| **Size** | **Order No.** | **Price** |
| 1-3/16 | **TS1029035** | Price |
| 1-1/2 | **TS1029036** | Price |

| For Collet Type - DA200 | | |
|---|---|---|
| **Size** | **Order No.** | **Price** |
| 3/4 | **TS1029032** | Price |

| For Collet Type - DA300 | | |
|---|---|---|
| **Size** | **Order No.** | **Price** |
| 1/2 | **TS1029031** | Price |

| For Collet Type - ER11 | | |
|---|---|---|
| **Size** | **Order No.** | **Price** |
| .63 | **TS1029001** | Price |

| For Collet Type - ER16 | | |
|---|---|---|
| **Size** | **Order No.** | **Price** |
| .87 | **TS1029002** | Price |
| 1.10 | **TS1029039** | Price |

| For Collet Type - ER20 | | |
|---|---|---|
| **Size** | **Order No.** | **Price** |
| 1.34 | **TS1029040** | Price |

| For Collet Type - ER25 | | |
|---|---|---|
| **Size** | **Order No.** | **Price** |
| 1.65 | **TS1029003** | Price |
| 1.65 | **TS1029004** | Price |

| For Collet Type - ER32 | | |
|---|---|---|
| **Size** | **Order No.** | **Price** |
| - | **TS1029043** | Price |
| 1.97 | **TS1029006** | Price |
| 1.97 | **TS1029005** | Price |

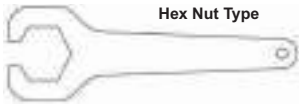
| For Collet Type - ER40 | | |
|---|---|---|
| **Size** | **Order No.** | **Price** |
| 2.48 | **TS1029008** | Price |
| 2.48 | **TS1029007** | Price |

| For Collet Type - TG100 | | |
|---|---|---|
| **Size** | **Order No.** | **Price** |
| 2-1/4 | **TS1029038** | Price |
| 2.44 | **TS1029010** | Price |

| For Collet Type - TG150 | | |
|---|---|---|
| **Size** | **Order No.** | **Price** |
| 3.54 | **TS1029011** | Price |

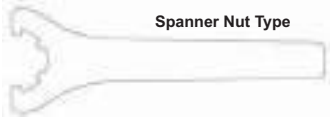
| For Collet Type - TG75 | | |
|---|---|---|
| **Size** | **Order No.** | **Price** |
| 1-7/8 | **TS1029037** | Price |
| 1.97 | **TS1029009** | Price |

## Spanner Wrenches
















| For Collet Type - ER11 | | |
|---|---|---|
| **Type** | **Order No.** | **Price** |
| Spanner Wrench | **GM20711511000** | Price |
| Spanner Wrench - Dovetail | **GM20711711000** | Price |
| Spanner Wrench - Hex | **GM20711211010** | Price |
| Spanner Wrench - Mini | **GM20711311000** | Price |
| Spanner Wrench - MS Slotted | **GM20711411000** | Price |

| For Collet Type - ER16 | | |
|---|---|---|
| **Type** | **Order No.** | **Price** |
| Spanner Wrench | **GM20711116000** | Price |
| Spanner Wrench | **GM20711516000** | Price |
| Spanner Wrench - Dovetail | **GM20711716000** | Price |
| Spanner Wrench - Hex | **GM20711216010** | Price |
| Spanner Wrench - Mini | **GM20711316000** | Price |
| Spanner Wrench - MS Slotted | **GM20711416000** | Price |

| For Collet Type - ER20 | | |
|---|---|---|
| **Type** | **Order No.** | **Price** |
| Spanner Wrench | **GM20711120000** | Price |
| Spanner Wrench | **GM20711520000** | Price |
| Spanner Wrench - Dovetail | **GM20711720000** | Price |
| Spanner Wrench - Hex | **GM20711220010** | Price |
| Spanner Wrench - Mini | **GM20711320000** | Price |
| Spanner Wrench - MS Slotted | **GM20711420000** | Price |

| For Collet Type - ER25 | | |
|---|---|---|
| **Type** | **Order No.** | **Price** |
| Spanner Wrench | **GM20711125000** | Price |
| Spanner Wrench | **GM20711525000** | Price |
| Spanner Wrench - Dovetail | **GM20711725000** | Price |
| Spanner Wrench - Mini | **GM20711325000** | Price |

| For Collet Type - ER32 | | |
|---|---|---|
| **Type** | **Order No.** | **Price** |
| Spanner Wrench | **GM20711132000** | Price |
| Spanner Wrench | **GM20711532000** | Price |
| Spanner Wrench - Dovetail | **GM20711732000** | Price |

| For Collet Type - ER40 | | |
|---|---|---|
| **Type** | **Order No.** | **Price** |
| Spanner Wrench | **GM20711140000** | Price |
| Spanner Wrench - Dovetail | **GM20711740000** | Price |

| For Collet Type - ER50 | | |
|---|---|---|
| **Type** | **Order No.** | **Price** |
| Spanner Wrench | **GM20711150000** | Price |

| For Collet Type - ER8 | | |
|---|---|---|
| **Type** | **Order No.** | **Price** |
| Spanner Wrench - Mini | **GM20711308000** | Price |
| Spanner Wrench - MS Slotted | **GM20711408000** | Price |

## ER Torque Wrench Heads *New!*



| Type - A-E | | | | | |
|---|---|---|---|---|---|
| Description | Height (in.) | Length (in.) | Size | Order No. | Price |
| AE16 Torque Wrench Head - Spanner Nut | 2.17 | 2.44 | 16 | **GM20715116000** | Price |
| AE20 Torque Wrench Head - Spanner Nut | 2.36 | 2.44 | 20 | **GM20715120000** | Price |
| AE25 Torque Wrench Head - Spanner Nut | 2.76 | 2.83 | 25 | **GM20715125000** | Price |
| AE32 Torque Wrench Head - Spanner Nut | 3.15 | 2.83 | 32 | **GM20715132000** | Price |
| AE40 Torque Wrench Head - Spanner Nut | 3.78 | 3.23 | 40 | **GM20715140000** | Price |
| AE50 Torque Wrench Head - Spanner Nut | 4.37 | 3.70 | 50 | **GM20715150000** | Price |

| Type - A-EAX | | | | | |
|---|---|---|---|---|---|
| Description | Height (in.) | Length (in.) | Size | Order No. | Price |
| AE11 AX Torque Wrench Head - Dovetail | .63 | 2.44 | 11 | **GM20715711000** | Price |
| AE16 AX Torque Wrench Head - Dovetail | .87 | 2.48 | 16 | **GM20715716000** | Price |
| AE20 AX Torque Wrench Head - Dovetail | 1.02 | 2.52 | 20 | **GM20715720000** | Price |
| AE25 AX Torque Wrench Head - Dovetail | 1.14 | 3.66 | 25 | **GM20715725000** | Price |
| AE32 AX Torque Wrench Head - Dovetail | 1.46 | 3.74 | 32 | **GM20715732000** | Price |
| AE40 AX Torque Wrench Head - Dovetail | 1.85 | 3.90 | 40 | **GM20715740000** | Price |

| Type - A-EM | | | | | |
|---|---|---|---|---|---|
| Description | Height (in.) | Length (in.) | Size | Order No. | Price |
| AE11 M Torque Wrench Head - Mini-Nut | .67 | 2.13 | 11 | **GM20715311000** | Price |
| AE16 M Torque Wrench Head - Mini-Nut | .87 | 2.20 | 16 | **GM20715316000** | Price |
| AE20 M Torque Wrench Head - Mini-Nut | 1.14 | 2.68 | 20 | **GM20715320000** | Price |

| Type - A-EM | | | | | |
|---|---|---|---|---|---|
| Description | Height (in.) | Length (in.) | Size | Order No. | Price |
| AE25 M Torque Wrench Head - Mini-Nut | 1.42 | 2.76 | 25 | **GM20715325000** | Price |
| AE8 M Torque Wrench Head - Mini-Nut | .47 | 2.09 | 8 | **GM20715308000** | Price |

| Type - A-EMS | | | | | |
|---|---|---|---|---|---|
| Description | Height (in.) | Length (in.) | Size | Order No. | Price |
| AE11 MS Torque Wrench Head - Mini-High Speed Nut | .87 | 2.24 | 11 | **GM20715411000** | Price |
| AE16 MS Torque Wrench Head - Mini-High Speed Nut | 1.30 | 2.36 | 16 | **GM20715416000** | Price |
| AE20 MS Torque Wrench Head - Mini-High Speed Nut | 1.65 | 2.87 | 20 | **GM20715420000** | Price |
| AE8 MS Torque Wrench Head - Mini-High Speed Nut | .75 | 2.01 | 8 | **GM20715408000** | Price |

| Type - A-EP | | | | | |
|---|---|---|---|---|---|
| Description | Height (in.) | Length (in.) | Size | Order No. | Price |
| AE11 P Torque Wrench Head - Hex | 1.26 | 2.24 | 11 | **GM20715211010** | Price |
| AE16 P Torque Wrench Head - Hex | 1.73 | 2.76 | 16 | **GM20715216010** | Price |
| AE20 P Torque Wrench Head - Hex | 2.05 | 3.15 | 20 | **GM20715220010** | Price |

## Torque Wrenches

- Fully adjustable torque wrench bodies with setting lock
- Scale readout in ft-lbs and Nm
- Interchangeable wrench heads
- Length based on torque rating

*New!*



| Description | Length (in.) | Torque Range | System | Order No. | Price |
|---|---|---|---|---|---|
| Torco-Fix I 10-50Nm | 13.19 | 5,0-50,0 Nm | ER micRun | **GM20715005050** | Price |
| Torco-Fix II 40-200 Nm | 18.31 | 20.0-200,0 Nm | ER PowRgrip micRun | **GM20715020200** | Price |
| Torco-Fix III 60-300Nm | 22.24 | 60,0-300,0 Nm | ER micRun | **GM20715060300** | Price |
| Torque Wrench Large | 21.46 | 45,0-220,0 ft/lbs | ER | **GM20802060300** | Price |
| Torque Wrench Medium | 13.39 | 15,0-80,0 ft/lbs | ER | **GM20802020100** | Price |
| Torque Wrench Micro | 13.19 | 2,0-25,0 ft/lbs | ER | **GM20715002025** | Price |
| Torque Wrench Small | 11.81 | 7,5-37,0 ft/lbs | ER | **GM20802010050** | Price |

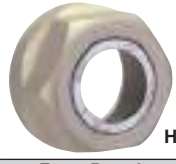
## RAPIDHOLD™ Top Clamping Nuts



Hex Slim



Round Slim



Hex



Round

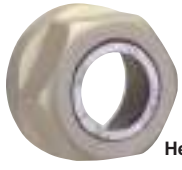
| Type - Hex | | |
|---|---|---|
| For Collet Type | Order No. | Price |
| ER16 | **TS1029026** | Price |
| ER20 | **TS1029025** | Price |
| ER32 | **TS1029018** | Price |
| ER40 | **TS1029019** | Price |
| TG100 | **TS1029029** | Price |
| TG150 | **TS1029030** | Price |
| TG75 | **TS1029042** | Price |

| Type - Hex Slim | | |
|---|---|---|
| For Collet Type | Order No. | Price |
| DA100 | **TS1029049** | Price |
| DA180 | **TS1029050** | Price |
| DA200 | **TS1029051** | Price |
| DA300 | **TS1029052** | Price |

| Type - Round | | |
|---|---|---|
| For Collet Type | Order No. | Price |
| DA100 | **TS1029014** | Price |
| DA180 | **TS1029016** | Price |
| DA200 | **TS1029017** | Price |
| ER20 | **TS1029027** | Price |
| ER25 | **TS1029022** | Price |
| ER32 | **TS1029023** | Price |
| ER40 | **TS1029024** | Price |
| TG100 | **TS1029013** | Price |
| TG150 | **TS1029015** | Price |
| TG75 | **TS1029012** | Price |

| Type - Round Mini | | |
|---|---|---|
| For Collet Type | Order No. | Price |
| ER11 | **TS1029020** | Price |
| ER16 | **TS1029021** | Price |

## Top Clamping Nuts



Hex



Mini

| Type - Hex | | |
|---|---|---|
| For Collet Type | Order No. | Price |
| ER11 | **EH4513073** | Price |
| ER16 | **EH4513023** | Price |
| ER20 | **EH4513025** | Price |
| ER25 | **EH4513026** | Price |
| ER32 | **EH4513027** | Price |
| ER40 | **EH4513028** | Price |

| Type - Mini | | |
|---|---|---|
| For Collet Type | Order No. | Price |
| ER11 | **EH4513072** | Price |
| ER16 | **EH4513001** | Price |
| ER20 | **EH4513003** | Price |

## ER System Clamping Nuts



- Hi-Q®/ER Clamping nuts with corrosion resistant surface are standard on all REGO-FIX® ER toolholders
- Hi-Q®/ERC Clamping nut is intended for use with the sealing disk system DS/ER and the coolant flush system KS/ER. These systems allow the use of all standard ER collets, ultra precision collets and tapping collets to be used in coolant applications. Up to 2000PSI Coolant pressure. Peripheral cooling of non-coolant through tools
- HI-Q®/ERC11 clamping nut is a one piece nut and disk system with built in o-ring seal for coolant through tools. Does not require sealing disks. Up to 2000PSI Coolant pressure. Intergrated seal prevents dirt and chips from entering collet
- HI-Q®/ERAX Clamping nut is used for floating chucks and other ER toolholders with internal thread
- HI-Q®/ERAXC / ERBC / ERMC Clamping nuts are intended for use with the sealing disk systems DS/ER and the cool flush system KS/ER. The disk system allows the use of all standard ER collets, ultra precision collets and the tapping collets for coolant through tools
- HI-Q®/ERB Clamping nut is a friction-bearing nut that offers the highest clamping force available
- HI-Q®/ERM Mini Clamping nut is recommended for use where minimal external diametes are important

**Features:**

- Collet locking to keep collet from coming out during assembly
- Balanced by design for high speed machining
- Special corrosion resistant treatment to redude friction between collet and nut, increases clamping force by up to 120%

| Type - ER | | | |
|---|---|---|---|
| **Collet Style** | **Style** | **Order No.** | **Price** |
| ER11 | Hi-Q / ER11 Standard Nut | **GM20341100000** | Price |
| ER11 | Hi-Q / ER11MS Nut for Highest RPM | **GM20321150000** | Price |
| ER16 | Hi-Q / ER16 Standard Nut | **GM20341600000** | Price |
| ER16 | Hi-Q / ER16MS Nut for Highest RPM | **GM20321650000** | Price |
| ER20 | Hi-Q / ER20 Standard Nut | **GM20342000000** | Price |
| ER20 | Hi-Q / ER20MS Nut for Highest RPM | **GM20322050000** | Price |
| ER25 | Hi-Q / ER25 Standard Nut | **GM20342500000** | Price |
| ER25 | Hi-Q/ ER25 Brng/Coolant Nut | **GM20342540000** | Price |
| ER32 | Hi-Q / ER32 Standard Nut | **GM20343200000** | Price |
| ER40 | Hi-Q / ER40 Standard Nut | **GM20344000000** | Price |
| ER50 | Hi-Q / ER50 Standard Nut | **GM20345000000** | Price |
| ER8 | Hi-Q / ER8MS Nut for Highest RPM | **GM20320850000** | Price |

| Type - ERAX | | | |
|---|---|---|---|
| **Collet Style** | **Style** | **Order No.** | **Price** |
| ER11 | Hi-Q / ERAX11 External Nut | **GM20331160000** | Price |
| ER16 | Hi-Q / ERAX16 External Nut | **GM20331660000** | Price |
| ER20 | Hi-Q / ERAX20 External Nut | **GM20332060000** | Price |
| ER25 | Hi-Q / ERAX25 External Nut | **GM20332560000** | Price |
| ER32 | Hi-Q / ERAX32 External Nut | **GM20333260000** | Price |
| ER40 | Hi-Q / ERAX40 External Nut | **GM20334060000** | Price |

| Type - ERAXC | | | |
|---|---|---|---|
| **Collet Style** | **Style** | **Order No.** | **Price** |
| ER16 | Hi-Q / ERAXC16 External/Coolant Nut | **GM20331670000** | Price |
| ER20 | Hi-Q / ERAXC20 External/Coolant Nut | **GM20332070000** | Price |
| ER25 | Hi-Q / ERAXC25 External/Coolant Nut | **GM20332570000** | Price |
| ER32 | Hi-Q / ERAXC32 External/Coolant Nut | **GM20333270000** | Price |
| ER40 | Hi-Q / ERAXC40 External/Coolant Nut | **GM20334070000** | Price |

| Type - ERB | | | |
|---|---|---|---|
| **Collet Style** | **Style** | **Order No.** | **Price** |
| ER16 | Hi-Q / ERB16 Bearing Nut | **GM20341630000** | Price |
| ER20 | Hi-Q / ERB20 Bearing Nut | **GM20342030000** | Price |
| ER25 | Hi-Q / ERB25 Bearing Nut | **GM20342530000** | Price |
| ER32 | Hi-Q / ERB32 Bearing Nut | **GM20343230000** | Price |
| ER40 | Hi-Q / ERB40 Bearing Nut | **GM20344030000** | Price |
| ER50 | Hi-Q / ERB50 Bearing Nut | **GM20345030000** | Price |

| Type - ERBC | | | |
|---|---|---|---|
| **Collet Style** | **Style** | **Order No.** | **Price** |
| ER16 | Hi-Q / ERBC16 Brng/Coolant Nut | **GM20341640000** | Price |
| ER20 | Hi-Q / ERBC20 Brng/Coolant Nut | **GM20342040000** | Price |

| Type - ERBC | | | |
|---|---|---|---|
| **Collet Style** | **Style** | **Order No.** | **Price** |
| ER32 | Hi-Q / ERBC32 Brng/Coolant Nut | **GM20343240000** | Price |
| ER40 | Hi-Q / ERBC40 Bearing/Coolant Nut | **GM20344040000** | Price |

| Type - ERC | | | |
|---|---|---|---|
| **Collet Style** | **Style** | **Order No.** | **Price** |
| ER11 | Hi-Q / ERC11 3.5-3mm Coolant Nut | **GM20341120350** | Price |
| ER11 | Hi-Q / ERC11 3-2.5mm Coolant Nut | **GM20341120300** | Price |
| ER11 | Hi-Q / ERC11 4.5-4mm Coolant Nut | **GM20341120450** | Price |
| ER11 | Hi-Q / ERC11 4-3.5mm Coolant Nut | **GM20341120400** | Price |
| ER11 | Hi-Q / ERC11 5.5-5mm Coolant Nut | **GM20341120550** | Price |
| ER11 | Hi-Q / ERC11 5-4.5mm Coolant Nut | **GM20341120500** | Price |
| ER11 | Hi-Q / ERC11 6.5-6mm Coolant Nut | **GM20341120650** | Price |
| ER11 | Hi-Q / ERC11 6-5.5mm Coolant Nut | **GM20341120600** | Price |
| ER11 | Hi-Q / ERC11 7-6.5mm Coolant Nut | **GM20341120700** | Price |
| ER16 | Hi-Q / ERC16 Coolant Nut | **GM20341620000** | Price |
| ER20 | Hi-Q / ERC20 Coolant Nut | **GM20342020000** | Price |
| ER25 | Hi-Q / ERC25 Coolant Nut | **GM20342520000** | Price |
| ER32 | Hi-Q / ERC32 Coolant Nut | **GM20343220000** | Price |
| ER40 | Hi-Q / ERC40 Coolant Nut | **GM20344020000** | Price |

| Type - ERM | | | |
|---|---|---|---|
| **Collet Style** | **Style** | **Order No.** | **Price** |
| ER11 | Hi-Q / ERM11 Min. Ext. Dia. Nut | **GM20351100000** | Price |
| ER16 | Hi-Q / ERM16 Min. Ext. Dia. Nut | **GM20351600000** | Price |
| ER20 | Hi-Q / ERM20 Min. Ext. Dia. Nut | **GM20352000000** | Price |
| ER25 | Hi-Q / ERM25 Min. Ext. Dia. Nut | **GM20352500000** | Price |
| ER8 | Hi-Q / ERM8 Min. Ext. Dia. Nut | **GM20350800000** | Price |

| Type - ERMC | | | |
|---|---|---|---|
| **Collet Style** | **Style** | **Order No.** | **Price** |
| ER11 | Hi-Q / ERMC11 3.5-3mm Nut | **GM20351120350** | Price |
| ER11 | Hi-Q / ERMC11 3-2.5mm Nut | **GM20351120300** | Price |
| ER11 | Hi-Q / ERMC11 4.5-4mm Nut | **GM20351120450** | Price |
| ER11 | Hi-Q / ERMC11 4-3.5mm Nut | **GM20351120400** | Price |
| ER11 | Hi-Q / ERMC11 5.5-5mm Nut | **GM20351120550** | Price |
| ER11 | Hi-Q / ERMC11 5-4.5mm Nut | **GM20351120500** | Price |
| ER11 | Hi-Q / ERMC11 6.5-6mm Nut | **GM20351120650** | Price |
| ER11 | Hi-Q / ERMC11 6-5.5mm Nut | **GM20351120600** | Price |
| ER11 | Hi-Q / ERMC11 7-6.5mm Nut | **GM20351120700** | Price |
| ER16 | Hi-Q / ERMC16 Min. Ext. Dia/Int. Coolant Nut | **GM20351620000** | Price |
| ER25 | Hi-Q / ERMC25 Min. Ext. Dia/Int. Coolant Nut | **GM20352520000** | Price |

## ER Power Coat Coolant Nuts



- Increase holding power up to 75%
- Balanced to 25,000 RPM
- Reduce T.I.R. and extend tool life up to 20%
- Use with Rapidkut coolant Rings

| Description | Collet Style | Order No. | Price |
|---|---|---|---|
| Use with Coolant Rings | ER16 | **GM69ER16PC** | Price |
| Use with Coolant Rings | ER20 | **GM69ER20PC** | Price |
| Use with Coolant Rings | ER25 | **GM69ER25PC** | Price |
| Use with Coolant Rings | ER32 | **GM69ER32PC** | Price |
| Use with Coolant Rings | ER40 | **GM69ER40PC** | Price |

## ER System Collet Coolant Rings



**Techniks:**
- Seals up to 1,500 PSI
- Use with precision ER collets
- Seals collet pocket from contamination
- Use with Technik Power Coat coolant nuts

**Rego-Fix:**
- Seals up to 2,000 PSI
- Seals collet pocket from contamination
- Work with all REGO-FIX coolant nuts
- 0.5mm Sealing range per disk
- Made in Switzerland to ISO 9001/ISO 14001

**ASSEMBLING:** Insert the small diameter of the disk into the center of the coolant nut and apply even pressure until the disk is properly seated into the nut. The disk must be flush with the outside of the nut and the marking on the disk must be seen inside the nut

**REMOVING:** To remove the disk, simply press on the outside of the disk evenly until it snaps out

**Collet Style - ER16**

| | Rego-Fix | | Techniks | |
|---|---|---|---|---|
| Size Range | Order No. | Price | Order No. | Price |
| 2.5mm - 3mm | GM20391600300 | Price | - | - |
| 3mm - 3.5mm | GM20391600350 | Price | GM69CR1635 | Price |
| 3.5mm - 4mm | GM20391600400 | Price | GM69CR1640 | Price |
| 4mm - 4.5mm | GM20391600450 | Price | GM69CR1645 | Price |
| 4.5mm - 5mm | GM20391600500 | Price | GM69CR1650 | Price |
| 5mm - 5.5mm | GM20391600550 | Price | GM69CR1655 | Price |
| 5.5mm - 6mm | GM20391600600 | Price | GM69CR1660 | Price |
| 6mm - 6.5mm | GM20391600650 | Price | GM69CR1665 | Price |
| 6.5mm - 7mm | GM20391600700 | Price | GM69CR1670 | Price |
| 7mm - 7.5mm | GM20391600750 | Price | GM69CR1675 | Price |
| 7.5mm - 8mm | GM20391600800 | Price | GM69CR1680 | Price |
| 8mm - 8.5mm | GM20391600850 | Price | GM69CR1685 | Price |
| 8.5mm - 9mm | GM20391600900 | Price | GM69CR1690 | Price |
| 9mm - 9.5mm | GM20391600950 | Price | GM69CR1695 | Price |
| 9.5mm - 10mm | GM20391601000 | Price | GM69CR16100 | Price |

**Collet Style - ER20**

| | Rego-Fix | | Techniks | |
|---|---|---|---|---|
| Size Range | Order No. | Price | Order No. | Price |
| 2.5mm - 3mm | GM20392000300 | Price | - | - |
| 3mm - 3.5mm | GM20392000350 | Price | GM69CR2035 | Price |
| 3.5mm - 4mm | GM20392000400 | Price | GM69CR2040 | Price |
| 4mm - 4.5mm | GM20392000450 | Price | GM69CR2045 | Price |
| 4.5mm - 5mm | GM20392000500 | Price | GM69CR2050 | Price |
| 5mm - 5.5mm | GM20392000550 | Price | GM69CR2055 | Price |
| 5.5mm - 6mm | GM20392000600 | Price | GM69CR2060 | Price |
| 6mm - 6.5mm | GM20392000650 | Price | GM69CR2065 | Price |
| 6.5mm - 7mm | GM20392000700 | Price | GM69CR2070 | Price |
| 7mm - 7.5mm | GM20392000750 | Price | GM69CR2075 | Price |
| 7.5mm - 8mm | GM20392000800 | Price | GM69CR2080 | Price |
| 8mm - 8.5mm | GM20392000850 | Price | GM69CR2085 | Price |
| 8.5mm - 9mm | GM20392000900 | Price | GM69CR2090 | Price |
| 9mm - 9.5mm | GM20392000950 | Price | GM69CR2095 | Price |
| 9.5mm - 10mm | GM20392001000 | Price | GM69CR20100 | Price |
| 10mm - 10.5mm | GM20392001050 | Price | GM69CR20105 | Price |
| 10.5mm - 11mm | GM20392001100 | Price | GM69CR20110 | Price |
| 11mm - 11.5mm | GM20392001150 | Price | GM69CR20115 | Price |
| 11.5mm - 12mm | GM20392001200 | Price | GM69CR20120 | Price |
| 12mm - 12.5mm | GM20392001250 | Price | GM69CR20125 | Price |
| 12.5mm - 13mm | GM20392001300 | Price | GM69CR20130 | Price |

**Collet Style - ER25**

| | Rego-Fix | | Techniks | |
|---|---|---|---|---|
| Size Range | Order No. | Price | Order No. | Price |
| 2.5mm - 3mm | GM20392500300 | Price | - | - |
| 3mm - 3.5mm | GM20392500350 | Price | GM69CR2535 | Price |
| 3.5mm - 4mm | GM20392500400 | Price | GM69CR2540 | Price |
| 4mm - 4.5mm | GM20392500450 | Price | GM69CR2545 | Price |
| 4.5mm - 5mm | GM20392500500 | Price | GM69CR2550 | Price |
| 5mm - 5.5mm | GM20392500550 | Price | GM69CR2555 | Price |
| 5.5mm - 6mm | GM20392500600 | Price | GM69CR2560 | Price |
| 6mm - 6.5mm | GM20392500650 | Price | GM69CR2565 | Price |
| 6.5mm - 7mm | GM20392500700 | Price | GM69CR2570 | Price |
| 7mm - 7.5mm | GM20392500750 | Price | GM69CR2575 | Price |
| 7.5mm - 8mm | GM20392500800 | Price | GM69CR2580 | Price |
| 8mm - 8.5mm | GM20392500850 | Price | GM69CR2585 | Price |
| 8.5mm - 9mm | GM20392500900 | Price | GM69CR2590 | Price |
| 9mm - 9.5mm | GM20392500950 | Price | GM69CR2595 | Price |
| 9.5mm - 10mm | GM20392501000 | Price | GM69CR25100 | Price |
| 10mm - 10.5mm | GM20392501050 | Price | GM69CR25105 | Price |
| 10.5mm - 11mm | GM20392501100 | Price | GM69CR25110 | Price |
| 11mm - 11.5mm | GM20392501150 | Price | GM69CR25115 | Price |
| 11.5mm - 12mm | GM20392501200 | Price | GM69CR25120 | Price |
| 12mm - 12.5mm | GM20392501250 | Price | GM69CR25125 | Price |
| 12.5mm - 13mm | GM20392501300 | Price | GM69CR25130 | Price |
| 13mm - 13.5mm | GM20392501350 | Price | GM69CR25135 | Price |
| 13.5mm - 14mm | GM20392501400 | Price | GM69CR25140 | Price |
| 14mm - 14.5mm | GM20392501450 | Price | GM69CR25145 | Price |
| 14.5mm - 15mm | GM20392501500 | Price | GM69CR25150 | Price |
| 15mm - 15.5mm | GM20392501550 | Price | GM69CR25155 | Price |
| 15.5mm - 16mm | GM20392501600 | Price | GM69CR25160 | Price |

**Collet Style - ER32**

| | Rego-Fix | | Techniks | |
|---|---|---|---|---|
| Size Range | Order No. | Price | Order No. | Price |
| 2.5mm - 3mm | GM20393200300 | Price | - | - |
| 3mm - 3.5mm | GM20393200350 | Price | GM69CR3235 | Price |
| 3.5mm - 4mm | GM20393200400 | Price | GM69CR3240 | Price |
| 4mm - 4.5mm | GM20393200450 | Price | GM69CR3245 | Price |
| 4.5mm - 5mm | GM20393200500 | Price | GM69CR3250 | Price |
| 5mm - 5.5mm | GM20393200550 | Price | GM69CR3255 | Price |
| 5.5mm - 6mm | GM20393200600 | Price | GM69CR3260 | Price |
| 6mm - 6.5mm | GM20393200650 | Price | GM69CR3265 | Price |
| 6.5mm - 7mm | GM20393200700 | Price | GM69CR3270 | Price |
| 7mm - 7.5mm | GM20393200750 | Price | GM69CR3275 | Price |
| 7.5mm - 8mm | GM20393200800 | Price | GM69CR3280 | Price |
| 8mm - 8.5mm | GM20393200850 | Price | GM69CR3285 | Price |
| 8.5mm - 9mm | GM20393200900 | Price | GM69CR3290 | Price |
| 9mm - 9.5mm | GM20393200950 | Price | GM69CR3295 | Price |
| 9.5mm - 10mm | GM20393201000 | Price | GM69CR32100 | Price |
| 10mm - 10.5mm | GM20393201050 | Price | GM69CR32105 | Price |
| 10.5mm - 11mm | GM20393201100 | Price | GM69CR32110 | Price |
| 11mm - 11.5mm | GM20393201150 | Price | GM69CR32115 | Price |
| 11.5mm - 12mm | GM20393201200 | Price | GM69CR32120 | Price |
| 12mm - 12.5mm | GM20393201250 | Price | GM69CR32125 | Price |
| 12.5mm - 13mm | GM20393201300 | Price | GM69CR32130 | Price |
| 13mm - 13.5mm | GM20393201350 | Price | GM69CR32135 | Price |
| 13.5mm - 14mm | GM20393201400 | Price | GM69CR32140 | Price |
| 14mm - 14.5mm | GM20393201450 | Price | GM69CR32145 | Price |
| 14.5mm - 15mm | GM20393201500 | Price | GM69CR32150 | Price |
| 15mm - 15.5mm | GM20393201550 | Price | GM69CR32155 | Price |
| 15.5mm - 16mm | GM20393201600 | Price | GM69CR32160 | Price |
| 16mm - 16.5mm | GM20393201650 | Price | GM69CR32165 | Price |
| 16.5mm - 17mm | GM20393201700 | Price | GM69CR32170 | Price |
| 17mm - 17.5mm | GM20393201750 | Price | GM69CR32175 | Price |
| 17.5mm - 18mm | GM20393201800 | Price | GM69CR32180 | Price |
| 18mm - 18.5mm | GM20393201850 | Price | GM69CR32185 | Price |
| 18.5mm - 19mm | GM20393201900 | Price | GM69CR32190 | Price |
| 19mm - 19.5mm | GM20393201950 | Price | GM69CR32195 | Price |
| 19.5mm - 20mm | GM20393202000 | Price | GM69CR32200 | Price |

**Collet Style - ER40**

| | Rego-Fix | | Techniks | |
|---|---|---|---|---|
| Size Range | Order No. | Price | Order No. | Price |
| 2.5mm - 3mm | GM20394000300 | Price | - | - |
| 3mm - 3.5mm | GM20394000350 | Price | GM69CR4035 | Price |
| 3.5mm - 4mm | GM20394000400 | Price | GM69CR4040 | Price |
| 4mm - 4.5mm | GM20394000450 | Price | GM69CR4045 | Price |
| 4.5mm - 5mm | GM20394000500 | Price | GM69CR4050 | Price |
| 5mm - 5.5mm | GM20394000550 | Price | GM69CR4055 | Price |
| 5.5mm - 6mm | GM20394000600 | Price | GM69CR4060 | Price |
| 6mm - 6.5mm | GM20394000650 | Price | GM69CR4065 | Price |
| 6.5mm - 7mm | GM20394000700 | Price | GM69CR4070 | Price |
| 7mm - 7.5mm | GM20394000750 | Price | GM69CR4075 | Price |
| 7.5mm - 8mm | GM20394000800 | Price | GM69CR4080 | Price |
| 8mm - 8.5mm | GM20394000850 | Price | GM69CR4085 | Price |
| 8.5mm - 9mm | GM20394000900 | Price | GM69CR4090 | Price |
| 9mm - 9.5mm | GM20394000950 | Price | GM69CR4095 | Price |
| 9.5mm - 10mm | GM20394001000 | Price | GM69CR40100 | Price |
| 10mm - 10.5mm | GM20394001050 | Price | GM69CR40105 | Price |
| 10.5mm - 11mm | GM20394001100 | Price | GM69CR40110 | Price |
| 11mm - 11.5mm | GM20394001150 | Price | GM69CR40115 | Price |
| 11.5mm - 12mm | GM20394001200 | Price | GM69CR40120 | Price |
| 12mm - 12.5mm | GM20394001250 | Price | GM69CR40125 | Price |
| 12.5mm - 13mm | GM20394001300 | Price | GM69CR40130 | Price |
| 13mm - 13.5mm | GM20394001350 | Price | GM69CR40135 | Price |
| 13.5mm - 14mm | GM20394001400 | Price | GM69CR40140 | Price |
| 14mm - 14.5mm | GM20394001450 | Price | GM69CR40145 | Price |
| 14.5mm - 15mm | GM20394001500 | Price | GM69CR40150 | Price |
| 15mm - 15.5mm | GM20394001550 | Price | GM69CR40155 | Price |
| 15.5mm - 16mm | GM20394001600 | Price | GM69CR40160 | Price |
| 16mm - 16.5mm | GM20394001650 | Price | GM69CR40165 | Price |
| 16.5mm - 17mm | GM20394001700 | Price | GM69CR40170 | Price |
| 17mm - 17.5mm | GM20394001750 | Price | GM69CR40175 | Price |
| 17.5mm - 18mm | GM20394001800 | Price | GM69CR40180 | Price |
| 18mm - 18.5mm | GM20394001850 | Price | GM69CR40185 | Price |
| 18.5mm - 19mm | GM20394001900 | Price | GM69CR40190 | Price |
| 19mm - 19.5mm | GM20394001950 | Price | GM69CR40195 | Price |
| 19.5mm - 20mm | GM20394002000 | Price | GM69CR40200 | Price |
| 20mm - 20.5mm | GM20394002050 | Price | GM69CR40205 | Price |
| 20.5mm - 21mm | GM20394002100 | Price | GM69CR40210 | Price |
| 21mm - 21.5mm | GM20394002150 | Price | GM69CR40215 | Price |
| 21.5mm - 22mm | GM20394002200 | Price | GM69CR40220 | Price |
| 22mm - 22.5mm | GM20394002250 | Price | GM69CR40225 | Price |
| 22.5mm - 23mm | GM20394002300 | Price | GM69CR40230 | Price |
| 23mm - 23.5mm | GM20394002350 | Price | GM69CR40235 | Price |
| 23.5mm - 24mm | GM20394002400 | Price | GM69CR40240 | Price |
| 24mm - 24.5mm | GM20394002450 | Price | GM69CR40245 | Price |
| 24.5mm - 25mm | GM20394002500 | Price | GM69CR40250 | Price |
| 25mm - 25.5mm | GM20394002550 | Price | GM69CR40255 | Price |
| 25.5mm - 26mm | GM20394002600 | Price | GM69CR40260 | Price |

# Briney Eccentric Bore Tool Holders

- Tru Position eccentric bore tool holders have a special proven grinding technique design that dramatically reduces total indicator runout (T.I.R.)
- Average .0001” concentricity finished tool holders with eccentric ID guaranteed .0002” (note tool must be installed)
- Tool pulls within .0001” of centerline once set screw is tightened
- Holders are offset .0003”
- ISO 9001 certified

MADE IN THE USA



| Shank - CAT40 | | | |
|---|---|---|---|
| Size (in./mm) | Gage Length (in.) | Order No. | Price |
| 1/8 | 2.500 | **GM30V40E012250** | Price |
| 3/16 | 2.500 | **GM30V40E018250** | Price |
| 3/16 | 6.000 | **GM30V40E018600** | Price |
| 1/4 | 2.500 | **GM30V40E025250** | Price |
| 1/4 | 4.500 | **GM30V40E025450** | Price |
| 1/4 | 6.000 | **GM30V40E025600** | Price |
| 5/16 | 2.500 | **GM30V40E031250** | Price |
| 3/8 | 2.500 | **GM30V40E038250** | Price |
| 3/8 | 4.500 | **GM30V40E038450** | Price |
| 3/8 | 6.000 | **GM30V40E038600** | Price |
| 7/16 | 2.500 | **GM30V40E044250** | Price |
| 1/2 | 1.750 | **GM30V40E050175** | Price |
| 1/2 | 2.625 | **GM30V40E050262** | Price |
| 1/2 | 4.500 | **GM30V40E050450** | Price |
| 1/2 | 6.000 | **GM30V40E050600** | Price |
| 5/8 | 1.750 | **GM30V40E062175** | Price |
| 5/8 | 3.750 | **GM30V40E062375** | Price |
| 5/8 | 4.750 | **GM30V40E062475** | Price |
| 5/8 | 6.000 | **GM30V40E062600** | Price |
| 3/4 | 1.750 | **GM30V40E075175** | Price |
| 3/4 | 3.750 | **GM30V40E075375** | Price |
| 3/4 | 4.750 | **GM30V40E075475** | Price |
| 3/4 | 6.000 | **GM30V40E075600** | Price |
| 7/8 | 4.000 | **GM30V40E088400** | Price |
| 1 | 1.750 | **GM30V40E100175** | Price |
| 1 | 3.000 | **GM30V40E100300** | Price |
| 1 | 4.000 | **GM30V40E100400** | Price |
| 1 | 6.000 | **GM30V40E100600** | Price |
| 1-1/4 | 2.000 | **GM30V40E125200** | Price |
| 1-1/4 | 4.250 | **GM30V40E125425** | Price |
| 1-1/4 | 6.000 | **GM30V40E125600** | Price |
| 1-1/2 | 4.625 | **GM30V40E150462** | Price |
| 8mm | 2.500 | **GM30V40E8MM250** | Price |
| 10mm | 2.500 | **GM30V40E10MM250** | Price |
| 12mm | 2.625 | **GM30V40E12MM262** | Price |
| 16mm | 3.750 | **GM30V40E16MM375** | Price |
| 20mm | 3.750 | **GM30V40E20MM375** | Price |

| Shank - CAT50 | | | |
|---|---|---|---|
| Size (in./mm) | Gage Length (in.) | Order No. | Price |
| 3/16 | 2.500 | **GM30V50E018250** | Price |
| 3/16 | 4.500 | **GM30V50E018450** | Price |
| 3/16 | 6.500 | **GM30V50E018650** | Price |
| 1/4 | 2.500 | **GM30V50E025250** | Price |
| 1/4 | 4.500 | **GM30V50E025450** | Price |
| 1/4 | 6.500 | **GM30V50E025650** | Price |
| 5/16 | 2.500 | **GM30V50E031250** | Price |

| Shank - CAT50 | | | |
|---|---|---|---|
| Size (in./mm) | Gage Length (in.) | Order No. | Price |
| 5/16 | 4.500 | **GM30V50E031450** | Price |
| 5/16 | 6.500 | **GM30V50E031650** | Price |
| 3/8 | 2.500 | **GM30V50E038250** | Price |
| 3/8 | 4.500 | **GM30V50E038450** | Price |
| 3/8 | 6.500 | **GM30V50E038650** | Price |
| 7/16 | 2.500 | **GM30V50E044250** | Price |
| 7/16 | 4.500 | **GM30V50E044450** | Price |
| 1/2 | 2.620 | **GM30V50E050262** | Price |
| 1/2 | 4.620 | **GM30V50E050462** | Price |
| 1/2 | 6.620 | **GM30V50E050662** | Price |
| 5/8 | 2.060 | **GM30V50E062206** | Price |
| 5/8 | 3.750 | **GM30V50E062375** | Price |
| 5/8 | 5.750 | **GM30V50E062575** | Price |
| 5/8 | 7.750 | **GM30V50E062775** | Price |
| 3/4 | 2.060 | **GM30V50E075206** | Price |
| 3/4 | 3.750 | **GM30V50E075375** | Price |
| 3/4 | 5.750 | **GM30V50E075575** | Price |
| 3/4 | 7.750 | **GM30V50E075775** | Price |
| 7/8 | 3.750 | **GM30V50E088375** | Price |
| 7/8 | 5.750 | **GM30V50E088575** | Price |
| 1 | 2.250 | **GM30V50E100225** | Price |
| 1 | 4.000 | **GM30V50E100400** | Price |
| 1 | 6.000 | **GM30V50E100600** | Price |
| 1 | 8.000 | **GM30V50E100800** | Price |
| 1-1/4 | 2.250 | **GM30V50E125225** | Price |
| 1-1/4 | 4.000 | **GM30V50E125400** | Price |
| 1-1/4 | 6.000 | **GM30V50E125600** | Price |
| 1-1/4 | 8.000 | **GM30V50E125800** | Price |
| 1-1/2 | 2.750 | **GM30V50E150275** | Price |
| 1-1/2 | 4.000 | **GM30V50E150400** | Price |
| 1-1/2 | 6.000 | **GM30V50E150600** | Price |
| 1-1/2 | 8.000 | **GM30V50E150800** | Price |
| 1-3/4 | 4.000 | **GM30V50E175400** | Price |
| 2 | 5.620 | **GM30V50E200562** | Price |
| 2 | 7.620 | **GM30V50E200762** | Price |
| 2 | 9.620 | **GM30V50E200962** | Price |
| 6mm | 2.500 | **GM30V50E6MM250** | Price |
| 8mm | 2.500 | **GM30V50E8MM250** | Price |
| 10mm | 2.500 | **GM30V50E10MM250** | Price |
| 12mm | 2.620 | **GM30V50E12MM262** | Price |
| 16mm | 3.750 | **GM30V50E16MM262** | Price |
| 20mm | 3.750 | **GM30V50E20MM375** | Price |
| 25mm | 4.000 | **GM30V50E25MM400** | Price |
| 32mm | 4.000 | **GM30V50E32MM400** | Price |
| 40mm | 4.000 | **GM30V50E40MM400** | Price |

## RAPIDHOLD™ BT30 V-Flange End Mill Holders



- Produced according to AT3 specifications
- Tools are made of a high quality alloy steel
- End mill socket T.I.R. .0002”
- Through the spindle coolant capability
- Hole diameters are made in H5 class
- Dynamically balanced to G6.3 @ 20,000 RPM
- All balanced tools are supplied with QA certificate

| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 1/8 | .690 | 3 | **RH2623101R** | Price |
| 3/16 | .690 | 2.36 | **RH2623102R** | Price |
| 1/4 | 1.000 | 2.36 | **RH2623103R** | Price |
| 5/16 | 1.000 | 2.36 | **RH2623104R** | Price |
| 3/8 | 1.000 | 2.36 | **RH2623105R** | Price |
| 1/2 | 1.380 | 2.36 | **RH2623106R** | Price |
| 5/8 | 1.633 | 2.36 | **RH2623107R** | Price |
| 3/4 | 1.750 | 2.36 | **RH2623108R** | Price |

## RAPIDHOLD™ BT40 V-Flange End Mill Holders



- Produced according to AT3 specifications
- Tools are made of a high quality alloy steel
- End mill socket T.I.R. .0002”
- Through the spindle coolant capability
- Hole diameters are made in H5 class
- Dynamically balanced to G6.3 @ 20,000 RPM
- All balanced tools are supplied with QA certificate

| Size (in.) | Nose (in.) | Gage Length (in.0 | Order No. | Price |
|---|---|---|---|---|
| 1/4 | 1.000 | 2.56 | **RH2624101R** | Price |
| 5/16 | 1.000 | 2.56 | **RH2624102R** | Price |
| 3/8 | 1.000 | 2.56 | **RH2624103R** | Price |
| 1/2 | 1.380 | 2.56 | **RH2624104R** | Price |
| 1/2 | 1.380 | 4 | **RH2624105R** | Price |
| 5/8 | 1.633 | 2.56 | **RH2624106R** | Price |
| 3/4 | 1.750 | 2.37 | **RH2624108R** | Price |
| 3/4 | 1.750 | 2.56 | **RH2624109R** | Price |
| 7/8 | 2.000 | 3.35 | **RH2624110R** | Price |
| 1 | 2.000 | 3.74 | **RH2624112R** | Price |
| 1 | 2.000 | 5 | **RH2624113R** | Price |

## BT40 V-Flange End Mill Holders

- Run out accuracy .0002
- Taper class AT3
- Hardness 58-60 HRc
- N5 Taper Finish



| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 3/16 | .984 | 1.930 | **GM604503646** | Price |
| 1/4 | 1.000 | 2.370 | **GM604592940** | Price |
| 3/8 | 1.374 | 2.560 | **GM604501151** | Price |
| 1/2 | 1.656 | 2.560 | **GM604591047** | Price |
| 5/8 | 1.890 | 1.750 | **GM604592750** | Price |
| 3/4 | 2.050 | 1.750 | **GM604592950** | Price |
| 1 | 2.480 | 1.750 | **GM604592970** | Price |
| 1-1/4 | 2.480 | 2.000 | **GM604592609** | Price |
| 1-1/2 | 3.150 | 4.620 | **GM604501154** | Price |

## BT30 V-Flange End Mill Holders



- Precision machined to an Industry Leading H5 standard I.D. hole tolerance
- Balanced to 15,000 RPM to save spindle bearing life and the Taper is ground to AT3 standard for maximum spindle contact
- Each holder is lab certified with an individual report to ensure quality

| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 1/8 | .680 | 2.360 | **TE121713018** | Price |
| 3/16 | .680 | 2.360 | **TE1217130316** | Price |
| 1/4 | .780 | 2.360 | **TE121713014** | Price |
| 3/8 | 1.000 | 2.360 | **TE121713038** | Price |
| 7/16 | 1.120 | 2.360 | **TE1217130716** | Price |
| 1/2 | 1.250 | 2.360 | **TE121713012** | Price |
| 5/8 | 1.500 | 2.360 | **TE121713058** | Price |
| 3/4 | 1.750 | 2.360 | **TE121713034** | Price |

## BT40 V-Flange End Mill Holders



- Precision machined to an Industry Leading H5 standard I.D. hole tolerance
- Balanced to 15,000 RPM to save spindle bearing life and the Taper is ground to AT3 standard for maximum spindle contact
- Each holder is lab certified with an individual report to ensure quality

| Size (in.) | Nose (in.) | Gage Length (in.0 | Order No. | Price |
|---|---|---|---|---|
| 1/8 | .680 | 2.500 | **TE121714018** | Price |
| 3/16 | .680 | 2.500 | **TE1217140316** | Price |
| 1/4 | .780 | 2.500 | **TE121714014** | Price |
| 1/4 | .780 | 4.000 | **TE1217140144** | Price |
| 5/16 | .880 | 2.500 | **TE1217140516** | Price |
| 3/8 | 1.000 | 2.500 | **TE121714038** | Price |
| 7/16 | 1.120 | 2.500 | **TE1217140716** | Price |
| 1/2 | 1.250 | 2.500 | **TE121714012** | Price |
| 1/2 | 1.250 | 2.500 | **TE121714012F** | Price |
| 1/2 | 1.250 | 4.000 | **TE1217140124** | Price |
| 5/8 | 1.500 | 2.500 | **TE121714058** | Price |
| 3/4 | 1.750 | 2.500 | **TE121714034** | Price |
| 1-1/4 | 2.500 | 3.560 | **TE1217140114** | Price |
| 1-1/2 | 2.500 | 3.560 | **TE1217140112** | Price |

## RAPIDHOLD™ BT50 V-Flange End Mill Holders



- Produced according to AT3 specifications
- Tools are made of a high quality alloy steel
- End mill socket T.I.R. .0002”
- Through the spindle coolant capability
- Hole diameters are made in H5 class
- Dynamically balanced to G6.3 @ 20,000 RPM
- All balanced tools are supplied with QA certificate

| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 1/2 | 1.380 | 2.952 | **RH2625101R** | Price |
| 3/4 | 1.750 | 2.952 | **RH2625102R** | Price |
| 1 | 2.000 | 4.13 | **RH2625103R** | Price |
| 1 | 2.000 | 6 | **RH2625104R** | Price |
| 1-1/4 | 2.500 | 4.13 | **RH2625105R** | Price |
| 1-1/4 | 2.500 | 6 | **RH2625106R** | Price |
| 1-1/2 | 2.750 | 4.13 | **RH2625107R** | Price |
| 2 | 3.750 | 5.31 | **RH2625108R** | Price |

## BT50 V-Flange End Mill Holders

- Precision machined to an Industry Leading H5 standard I.D. hole tolerance
- Balanced to 15,000 RPM to save spindle bearing life and the Taper is ground to AT3 standard for maximum spindle contact
- Each holder is lab certified with an individual report to ensure quality



| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 1/4 | .780 | 3.000 | **TE121715014** | Price |
| 3/8 | 1.000 | 2.750 | **TE121715038** | Price |
| 1/2 | 1.250 | 3.000 | **TE121715012** | Price |
| 5/8 | 1.500 | 3.000 | **TE121715058** | Price |
| 3/4 | 1.750 | 3.000 | **TE121715034** | Price |
| 1 | 2.000 | 4.500 | **TE1217150145** | Price |
| 1-1/4 | 2.500 | 4.500 | **TE121715011445** | Price |

## BT50 V-Flange End Mill Holders

- Run out accuracy .0002
- Taper class AT3
- Hardness 58-60 HRc
- N5 Taper Finish



| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 1/2 | 1.656 | 3.937 | **GM604592990** | Price |
| 5/8 | 1.890 | 3.937 | **GM604593020** | Price |
| 3/4 | 2.050 | 3.937 | **GM604593030** | Price |
| 1 | 2.550 | 4.500 | **GM604590426** | Price |
| 1-1/4 | 2.830 | 4.500 | **GM604590436** | Price |

## RAPIDHOLD CAT40 V-Flange End Mill Holders

- Produced according to AT3 specifications
- Tools are made of a high quality alloy steel
- End mill socket T.I.R. .0002”
- Through the spindle coolant capability
- Hole diameters are made in H5 class
- Dynamically balanced to 2.5 @ 25,000 RPM



| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 1/8 | .690 | 1.38 | **RH2621127R** | Price |
| 1/8 | .690 | 4.5 | **RH2621101R** | Price |
| 3/16 | .690 | 1.38 | **RH2621128R** | Price |
| 3/16 | .690 | 2.5 | **RH2621102R** | Price |
| 3/16 | .690 | 4.5 | **RH2621103R** | Price |
| 3/16 | .690 | 6 | **RH2621145R** | Price |
| 1/4 | .780 | 1.38 | **RH2621129R** | Price |
| 1/4 | .780 | 4.5 | **RH2621105R** | Price |
| 1/4 | .780 | 6 | **RH2621148R** | Price |
| 1/4 | 1.000 | 2.5 | **RH2621104R** | Price |
| 5/16 | 1.000 | 1.38 | **RH2621130R** | Price |
| 5/16 | 1.000 | 4.5 | **RH2621106R** | Price |
| 3/8 | 1.000 | 1.38 | **RH2621131R** | Price |
| 3/8 | 1.000 | 2.5 | **RH2621107R** | Price |
| 3/8 | 1.000 | 4.5 | **RH2621108R** | Price |
| 3/8 | 1.000 | 6.5 | **RH2621109R** | Price |
| 3/8 | 1.000 | 8 | **RH2621151R** | Price |
| 7/16 | 1.250 | 1.75 | **RH2621132R** | Price |
| 7/16 | 1.250 | 4.5 | **RH2621110R** | Price |
| 1/2 | 1.250 | 4.62 | **RH2621112R** | Price |
| 1/2 | 1.250 | 6.62 | **RH2621113R** | Price |
| 1/2 | 1.250 | 8 | **RH2621154R** | Price |
| 1/2 | 1.380 | 2.62 | **RH2621111R** | Price |

| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 1/2 | 1.750 | 1.75 | **RH2621133R** | Price |
| 5/8 | 1.500 | 3.75 | **RH2621114R** | Price |
| 5/8 | 1.633 | 5.75 | **RH2621115R** | Price |
| 5/8 | 1.630 | 8 | **RH2621157R** | Price |
| 5/8 | 1.750 | 1.75 | **RH2621134R** | Price |
| 3/4 | 1.750 | 1.75 | **RH2621135R** | Price |
| 3/4 | 1.750 | 3.75 | **RH2621116R** | Price |
| 3/4 | 1.750 | 5.75 | **RH2621117R** | Price |
| 3/4 | 1.750 | 8 | **RH2621160R** | Price |
| 7/8 | 1.880 | 1.75 | **RH2621136R** | Price |
| 7/8 | 2.000 | 4 | **RH2621118R** | Price |
| 7/8 | 1.880 | 6 | **RH2621119R** | Price |
| 1 | 1.750 | 1.75 | **RH2621137R** | Price |
| 1 | 2.000 | 4 | **RH2621121R** | Price |
| 1 | 2.000 | 6 | **RH2621122R** | Price |
| 1 | 2.000 | 8 | **RH2621163R** | Price |
| 1-1/4 | 2.250 | 2 | **RH2621138R** | Price |
| 1-1/4 | 2.500 | 4.25 | **RH2621123R** | Price |
| 1-1/4 | 2.500 | 6.25 | **RH2621124R** | Price |
| 1-1/4 | 2.500 | 8 | **RH2621166R** | Price |
| 1-1/2 | 2.750 | 4.62 | **RH2621125R** | Price |
| 1-1/2 | 2.750 | 6.63 | **RH2621126R** | Price |
| 1-1/2 | 2.750 | 8 | **RH2621169R** | Price |

## CAT40 V-Flange End Mill Holders

- Precision machined to an Industry Leading H5 standard I.D. hole tolerance
- Balanced to 15,000 RPM to save spindle bearing life and the Taper is ground to AT3 standard for maximum spindle contact
- Each holder is lab certified with an individual report to ensure quality



| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 1/8 | .690 | 2.370 | **TE1222907** | Price |
| 1/8 | .690 | 6.000 | **TE12229076** | Price |
| 1/8 | .750 | 1.750 | **TE1222907175** | Price |
| 1/8 | .780 | 5.000 | **TE1222907500RR** | Price |
| 3/16 | .690 | 2.500 | **TE1222909** | Price |
| 3/16 | .690 | 6.000 | **TE12229096B** | Price |
| 3/16 | .690 | 6.000 | **TE12229096FB** | Price |
| 3/16 | .690 | 6.000 | **TE12229096** | Price |
| 3/16 | .780 | 4.720 | **TE1222909472RR** | Price |
| 3/16 | .795 | 1.750 | **TE1222909175** | Price |
| 1/4 | .780 | 2.500 | **TE122291125** | Price |
| 1/4 | .780 | 2.500 | **TE122291125F** | Price |
| 1/4 | .780 | 2.500 | **TE122291125FB** | Price |
| 1/4 | .780 | 2.500 | **TE122291125B** | Price |
| 1/4 | .780 | 3.000 | **TE1222911F** | Price |
| 1/4 | .780 | 3.000 | **TE1222911** | Price |
| 1/4 | .780 | 4.000 | **TE12229114FB** | Price |
| 1/4 | .780 | 4.720 | **TE1222911472RR** | Price |
| 1/4 | .780 | 6.000 | **TE12229116FB** | Price |
| 1/4 | .780 | 6.000 | **TE12229116B** | Price |
| 1/4 | .780 | 6.000 | **TE12229116** | Price |
| 1/4 | .795 | 1.750 | **TE1222911175** | Price |
| 3/8 | .880 | 1.750 | **TE1222915175** | Price |

| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 5/16 | .880 | 1.750 | **TE1222913175** | Price |
| 5/16 | .880 | 2.500 | **TE122291325** | Price |
| 5/16 | .880 | 2.500 | **TE122291325F** | Price |
| 5/16 | .880 | 3.000 | **TE1222913** | Price |
| 5/16 | .880 | 3.000 | **TE1222913F** | Price |
| 5/16 | .860 | 4.720 | **TE1222913472RR** | Price |
| 5/16 | .880 | 6.000 | **TE12229136FB** | Price |
| 3/8 | 1.000 | 2.500 | **TE122291525** | Price |
| 3/8 | 1.000 | 2.500 | **TE122291525B** | Price |
| 3/8 | 1.000 | 2.500 | **TE122291525FB** | Price |
| 3/8 | 1.000 | 2.500 | **TE122291525F** | Price |
| 3/8 | 1.000 | 3.000 | **TE1222915F** | Price |
| 3/8 | 1.000 | 4.000 | **TE12229154B** | Price |
| 3/8 | 1.000 | 4.720 | **TE1222915472RR** | Price |
| 3/8 | 1.000 | 5.000 | **TE12229155F** | Price |
| 3/8 | 1.000 | 5.000 | **TE12229155** | Price |
| 3/8 | 1.000 | 5.000 | **TE12229155FB** | Price |
| 7/16 | 1.120 | 1.750 | **TE1222916175** | Price |
| 7/16 | 1.120 | 2.500 | **TE122291671625** | Price |
| 7/16 | 1.120 | 2.500 | **TE122291671625F** | Price |
| 1/2 | 1.250 | 2.500 | **TE122291725** | Price |
| 1/2 | 1.250 | 2.500 | **TE122291725B** | Price |
| 1/2 | 1.250 | 2.500 | **TE122291725FB** | Price |

## CAT40 V-Flange End Mill Holders (cont.)



| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 1/2 | 1.250 | 2.625 | **TE1222917263** | Price |
| 1/2 | 1.250 | 3.000 | **TE1222917** | Price |
| 1/2 | 1.250 | 3.000 | **TE1222917B** | Price |
| 1/2 | 1.250 | 3.000 | **TE1222917F** | Price |
| 1/2 | 1.250 | 4.000 | **TE12229174FB** | Price |
| 1/2 | 1.250 | 4.000 | **TE12229174B** | Price |
| 1/2 | 1.250 | 4.630 | **TE1222917463** | Price |
| 1/2 | 1.380 | 4.720 | **TE1222917472RR** | Price |
| 1/2 | 1.500 | 1.750 | **TE1222917175** | Price |
| 5/8 | 1.500 | 1.750 | **TE1222919175F** | Price |
| 5/8 | 1.500 | 1.750 | **TE1222919175** | Price |
| 5/8 | 1.500 | 1.750 | **TE1222919175FB** | Price |
| 5/8 | 1.500 | 3.000 | **TE1222919** | Price |
| 5/8 | 1.500 | 3.000 | **TE1222919F** | Price |
| 5/8 | 1.500 | 3.000 | **TE1222919B** | Price |
| 5/8 | 1.500 | 3.750 | **TE1222920** | Price |
| 5/8 | 1.500 | 4.000 | **TE12229194B** | Price |
| 5/8 | 1.500 | 5.750 | **TE1222920575** | Price |
| 5/8 | 1.500 | 6.000 | **TE12229206FB** | Price |
| 3/4 | 1.750 | 1.750 | **TE1222921175B** | Price |
| 3/4 | 1.750 | 1.750 | **TE1222921175F** | Price |
| 3/4 | 1.750 | 1.750 | **TE1222921175** | Price |
| 3/4 | 1.750 | 3.000 | **TE12229213B** | Price |
| 3/4 | 1.750 | 3.000 | **TE12229213** | Price |
| 3/4 | 1.750 | 3.000 | **TE12229213FB** | Price |
| 3/4 | 1.750 | 3.000 | **TE12229213F** | Price |
| 3/4 | 1.750 | 3.500 | **TE1222921** | Price |

| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 3/4 | 1.750 | 4.000 | **TE12229214B** | Price |
| 3/4 | 1.750 | 5.000 | **TE12229215** | Price |
| 3/4 | 1.750 | 5.000 | **TE12229215F** | Price |
| 7/8 | 1.880 | 3.500 | **TE1222923** | Price |
| 1 | 2.000 | 1.750 | **TE1222925175F** | Price |
| 1 | 2.000 | 1.750 | **TE1222925A175** | Price |
| 1 | 2.000 | 3.000 | **TE12229253** | Price |
| 1 | 2.000 | 4.000 | **TE1222925** | Price |
| 1 | 2.000 | 4.000 | **TE1222925F** | Price |
| 1 | 2.000 | 4.000 | **TE1222925B** | Price |
| 1 | 2.000 | 4.000 | **TE1222925FB** | Price |
| 1 | 2.000 | 6.000 | **TE12229256** | Price |
| 1 | 2.500 | 6.000 | **TE12229276** | Price |
| 1-1/4 | 2.500 | 2.000 | **TE1222927A2** | Price |
| 1-1/4 | 2.500 | 4.000 | **TE12229274** | Price |
| 1-1/4 | 2.500 | 4.600 | **TE1222927F** | Price |
| 1-1/4 | 2.500 | 4.600 | **TE1222927** | Price |
| 1-1/2 | 2.500 | 4.500 | **TE1222929** | Price |
| 1-1/2 | 2.500 | 4.500 | **TE1222929F** | Price |
| 6mm | 25mm | 2.500 | **TE1222963** | Price |
| 8mm | 28mm | 2.500 | **TE1222965** | Price |
| 10mm | 35mm | 2.500 | **TE1222967** | Price |
| 12mm | 42mm | 2.500 | **TE1222969** | Price |
| 16mm | 48mm | 2.500 | **TE1222971** | Price |
| 20mm | 52mm | 3.000 | **TE1222973** | Price |
| 25mm | 65mm | 4.000 | **TE1222975** | Price |
| 32mm | 72mm | 4.000 | **TE1222977** | Price |

## CAT40 V-Flange End Mill Holders

- Run out accuracy .0002
- Taper class AT3
- Hardness 58-60 HRc
- N5 Taper Finish



| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 3/16 | .875 | 2.500 | **GM60314003** | Price |
| 1/4 | 1.000 | 2.500 | **GM604501458** | Price |
| 3/8 | 1.250 | 2.500 | **GM60314006** | Price |
| 3/8 | 1.500 | 1.750 | **GM604501467** | Price |
| 1/2 | 1.500 | 1.750 | **GM60314208** | Price |
| 1/2 | 1.750 | 2.620 | **GM60314008** | Price |
| 1/2 | 1.750 | 2.625 | **GM604505423** | Price |
| 5/8 | 1.500 | 1.750 | **GM60314210** | Price |
| 5/8 | 1.750 | 3.750 | **GM60314010** | Price |
| 3/4 | 1.750 | 1.750 | **GM60314212** | Price |
| 3/4 | 1.750 | 3.750 | **GM604501644** | Price |

| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 3/4 | 1.750 | 3.750 | **GM60314012** | Price |
| 7/8 | 2.062 | 4.000 | **GM60314014** | Price |
| 1 | 2.000 | 1.750 | **GM60314216** | Price |
| 1 | 2.000 | 1.750 | **GM604506553** | Price |
| 1 | 2.500 | 4.000 | **GM60314016** | Price |
| 1 | 2.550 | 4.000 | **GM604501610** | Price |
| 1-1/4 | 2.250 | 2.000 | **GM60314220** | Price |
| 1-1/4 | 2.750 | 4.250 | **GM604501611** | Price |
| 1-1/4 | 2.750 | 4.250 | **GM60314020** | Price |
| 1-1/2 | 3.150 | 4.620 | **GM60314024** | Price |
| 1-1/2 | 3.150 | 4.625 | **GM604501645** | Price |

## RAPIDHOLD™ CAT50 V-Flange End Mill Holders

- Produced according to AT3 specifications
- Tools are made of a high quality alloy steel
- End mill socket T.I.R. .0002”
- Through the spindle coolant capability
- Hole diameters are made in H5 class
- Dynamically balanced to G6.3 @ 20,000 RPM
- All balanced tools are supplied with QA certificate



| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 1 | 2.000 | 4 | **RH2622119R** | Price |
| 1 | 2.000 | 6 | **RH2622120R** | Price |
| 1 | 2.000 | 8 | **RH2622150R** | Price |
| 1/2 | 1.380 | 2.62 | **RH2622110R** | Price |
| 1/2 | 1.380 | 4.62 | **RH2622111R** | Price |
| 1/2 | 1.380 | 6.62 | **RH2622112R** | Price |
| 1/2 | 1.380 | 8 | **RH2622141R** | Price |
| 1/4 | .780 | 4.5 | **RH2622104R** | Price |
| 1/4 | .780 | 8 | **RH2622135R** | Price |
| 1/4 | 1.000 | 2.5 | **RH2622103R** | Price |
| 1-1/2 | 2.750 | 4.62 | **RH2622123R** | Price |
| 1-1/2 | 2.750 | 6.62 | **RH2622124R** | Price |
| 1-1/2 | 2.750 | 8 | **RH2622156R** | Price |
| 1-1/4 | 2.500 | 4.25 | **RH2622121R** | Price |
| 1-1/4 | 2.500 | 6.25 | **RH2622122R** | Price |
| 1-1/4 | 2.500 | 8 | **RH2622153R** | Price |
| 2 | 3.940 | 5.62 | **RH2622125R** | Price |
| 2 | 3.940 | 8 | **RH2622159R** | Price |

| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 3/16 | .690 | 2.5 | **RH2622101R** | Price |
| 3/16 | .690 | 4.5 | **RH2622102R** | Price |
| 3/4 | 1.750 | 3.75 | **RH2622115R** | Price |
| 3/4 | 1.750 | 5.75 | **RH2622116R** | Price |
| 3/4 | 1.750 | 8 | **RH2622147R** | Price |
| 3/8 | 1.000 | 2.5 | **RH2622106R** | Price |
| 3/8 | 1.000 | 4.5 | **RH2622107R** | Price |
| 3/8 | 1.000 | 6.5 | **RH2622108R** | Price |
| 3/8 | 1.000 | 8 | **RH2622138R** | Price |
| 5/16 | 1.000 | 4.5 | **RH2622105R** | Price |
| 5/8 | 1.630 | 8 | **RH2622144R** | Price |
| 5/8 | 1.633 | 3.75 | **RH2622113R** | Price |
| 5/8 | 1.633 | 5.75 | **RH2622114R** | Price |
| 7/16 | 1.250 | 1.75 | **RH2622126R** | Price |
| 7/16 | 1.250 | 4.5 | **RH2622109R** | Price |
| 7/8 | 2.000 | 4 | **RH2622117R** | Price |
| 7/8 | 2.000 | 6 | **RH2622118R** | Price |

## CAT50 V-Flange End Mill Holders

- Precision machined to an Industry Leading H5 standard I.D. hole tolerance
- Balanced to 15,000 RPM to save spindle bearing life and the Taper is ground to AT3 standard for maximum spindle contact
- Each holder is lab certified with an individual report to ensure quality



| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 9/16 | 1.500 | 1.440 | **TE1222939916144** | Price |
| 9/16 | 1.500 | 3.000 | **TE12229399163** | Price |
| 1/4 | .780 | 2.500 | **TE122293125B** | Price |
| 1/4 | .780 | 4.000 | **TE1222931** | Price |
| 1/4 | .780 | 4.000 | **TE1222931B** | Price |
| 1/4 | .780 | 4.000 | **TE1222931F** | Price |
| 1/4 | .780 | 6.000 | **TE12229316B** | Price |
| 1/4 | .780 | 6.500 | **TE122293165RR** | Price |
| 1/4 | .984 | 2.500 | **TE1222931212** | Price |
| 5/16 | .880 | 4.000 | **TE1222933** | Price |
| 3/8 | 1.000 | 2.500 | **TE122293525B** | Price |
| 3/8 | 1.000 | 4.000 | **TE1222935** | Price |
| 3/8 | 1.000 | 4.000 | **TE1222935F** | Price |
| 3/8 | 1.000 | 4.000 | **TE1222935B** | Price |
| 3/8 | 1.000 | 6.000 | **TE12229356B** | Price |
| 3/8 | 1.000 | 6.000 | **TE12229356** | Price |
| 3/8 | 1.000 | 6.500 | **TE122293565RR** | Price |
| 3/8 | 1.000 | 8.000 | **TE12229358B** | Price |
| 3/8 | 1.000 | 8.000 | **TE12229368** | Price |
| 3/8 | 1.250 | 2.500 | **TE1222935212** | Price |
| 1/2 | 1.250 | 2.625 | **TE12229372625B** | Price |
| 1/2 | 1.250 | 4.000 | **TE1222937** | Price |
| 1/2 | 1.250 | 4.000 | **TE1222937B** | Price |
| 1/2 | 1.250 | 4.000 | **TE1222937F** | Price |
| 1/2 | 1.250 | 6.000 | **TE12229376B** | Price |
| 1/2 | 1.250 | 6.000 | **TE12229376F** | Price |
| 1/2 | 1.250 | 6.000 | **TE12229376** | Price |
| 1/2 | 1.250 | 8.000 | **TE12229378** | Price |
| 1/2 | 1.250 | 8.000 | **TE12229378B** | Price |
| 1/2 | 1.250 | 8.000 | **TE12229378F** | Price |
| 1/2 | 1.380 | 6.500 | **TE122293765RR** | Price |
| 1/2 | 1.500 | 2.670 | **TE1222937258** | Price |
| 5/8 | 1.500 | 1.440 | **TE1222939144** | Price |
| 5/8 | 1.500 | 3.000 | **TE12229393B** | Price |
| 5/8 | 1.500 | 3.000 | **TE12229393** | Price |
| 5/8 | 1.500 | 4.000 | **TE1222939** | Price |
| 5/8 | 1.500 | 4.000 | **TE1222939B** | Price |
| 5/8 | 1.500 | 4.000 | **TE1222939F** | Price |
| 5/8 | 1.500 | 7.250 | **TE1222939725RR** | Price |
| 5/8 | 1.500 | 8.000 | **TE12229398** | Price |
| 3/4 | 1.750 | 1.440 | **TE1222941144B** | Price |
| 3/4 | 1.750 | 1.440 | **TE1222941144** | Price |
| 3/4 | 1.750 | 3.000 | **TE12229413** | Price |
| 3/4 | 1.750 | 3.000 | **TE12229413F** | Price |
| 3/4 | 1.750 | 3.000 | **TE12229413B** | Price |
| 3/4 | 1.750 | 4.000 | **TE1222941** | Price |

| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 3/4 | 1.750 | 4.000 | **TE1222941F** | Price |
| 3/4 | 1.750 | 4.000 | **TE1222941B** | Price |
| 3/4 | 1.750 | 5.750 | **TE1222941575** | Price |
| 3/4 | 1.750 | 6.000 | **TE12229416** | Price |
| 3/4 | 1.750 | 6.000 | **TE12229416B** | Price |
| 3/4 | 1.750 | 7.250 | **TE1222941725RR** | Price |
| 3/4 | 1.750 | 8.000 | **TE12229418B** | Price |
| 3/4 | 1.750 | 8.000 | **TE12229418** | Price |
| 7/8 | 1.880 | 4.000 | **TE1222943** | Price |
| 7/8 | 1.880 | 6.000 | **TE12229436** | Price |
| 7/8 | 1.880 | 6.000 | **TE12229436B** | Price |
| 7/8 | 2.000 | 8.000 | **TE12229438B** | Price |
| 1 | 2.000 | 2.625 | **TE1222945262** | Price |
| 1 | 2.000 | 2.625 | **TE1222945262F** | Price |
| 1 | 2.000 | 4.000 | **TE1222945** | Price |
| 1 | 2.000 | 4.000 | **TE1222945F** | Price |
| 1 | 2.000 | 4.000 | **TE1222945B** | Price |
| 1 | 2.000 | 6.000 | **TE12229456B** | Price |
| 1 | 2.000 | 6.000 | **TE12229456** | Price |
| 1 | 2.000 | 8.000 | **TE12229468B** | Price |
| 1 | 2.000 | 8.000 | **TE12229458RR** | Price |
| 1 | 2.000 | 8.000 | **TE12229468** | Price |
| 1-1/4 | 2.500 | 2.625 | **TE1222947262** | Price |
| 1-1/4 | 2.500 | 2.625 | **TE1222947262B** | Price |
| 1-1/4 | 2.500 | 4.600 | **TE1222947** | Price |
| 1-1/4 | 2.500 | 4.600 | **TE1222947F** | Price |
| 1-1/4 | 2.500 | 4.600 | **TE1222947B** | Price |
| 1-1/4 | 2.500 | 6.000 | **TE12229476B** | Price |
| 1-1/4 | 2.500 | 6.000 | **TE12229476** | Price |
| 1-1/4 | 2.500 | 8.000 | **TE12229478B** | Price |
| 1-1/4 | 2.500 | 8.000 | **TE12229478** | Price |
| 1-1/2 | 2.500 | 4.600 | **TE1222949** | Price |
| 1-1/2 | 2.500 | 4.600 | **TE1222949F** | Price |
| 1-1/2 | 2.500 | 4.600 | **TE1222949B** | Price |
| 1-1/2 | 2.750 | 2.000 | **TE12229492** | Price |
| 2 | 3.750 | 6.000 | **TE1222951** | Price |
| 2 | 3.750 | 6.000 | **TE1222951B** | Price |
| 6mm | 25mm | 4.000 | **TE1222981** | Price |
| 8mm | 28mm | 4.000 | **TE1222983** | Price |
| 10mm | 35mm | 4.000 | **TE1222985** | Price |
| 12mm | 42mm | 4.000 | **TE1222987** | Price |
| 16mm | 48mm | 4.000 | **TE1222989** | Price |
| 20mm | 52mm | 3.000 | **TE1222990** | Price |
| 25mm | 65mm | 4.000 | **TE1222993** | Price |
| 32mm | 72mm | 4.600 | **TE1222996** | Price |

## CAT50 V-Flange End Mill Holders

- Run out accuracy .0002
- Taper class AT3
- Hardness 58-60 HRc
- N5 Taper Finish



| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 5/8 | 1.500 | 1.750 | **GM60314210** | Price |
| 1/4 | 1.000 | 2.500 | **GM604501502** | Price |
| 1/4 | 1.000 | 4.500 | **GM604501510** | Price |
| 1/4 | 1.000 | 6.250 | **GM604501519** | Price |
| 3/8 | 1.250 | 2.500 | **GM60315006** | Price |
| 3/8 | 1.250 | 4.500 | **GM60315106** | Price |
| 3/8 | 1.250 | 6.500 | **GM60315206** | Price |
| 1/2 | 1.750 | 2.620 | **GM60315008** | Price |
| 1/2 | 1.750 | 4.620 | **GM60315108** | Price |
| 1/2 | 1.750 | 6.625 | **GM604501521** | Price |
| 5/8 | 1.750 | 3.750 | **GM60315010** | Price |
| 5/8 | 1.750 | 3.750 | **GM604503852** | Price |
| 5/8 | 1.750 | 5.750 | **GM60315110** | Price |
| 5/8 | 1.750 | 7.750 | **GM60315210** | Price |
| 3/4 | 1.750 | 3.750 | **GM60315012** | Price |

| Size (in.) | Nose (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 3/4 | 1.750 | 5.750 | **GM60315112** | Price |
| 3/4 | 1.750 | 7.750 | **GM60315212** | Price |
| 3/4 | 1.770 | 3.750 | **GM604501667** | Price |
| 7/8 | 2.000 | 3.750 | **GM60315014** | Price |
| 1 | 2.500 | 4.000 | **GM60315016** | Price |
| 1 | 2.500 | 6.000 | **GM60315116** | Price |
| 1 | 2.500 | 8.000 | **GM60315216** | Price |
| 1 | 2.550 | 4.000 | **GM604501612** | Price |
| 1-1/4 | 2.750 | 4.000 | **GM604501613** | Price |
| 1-1/4 | 2.750 | 6.000 | **GM60315120** | Price |
| 1-1/4 | 2.750 | 8.000 | **GM60315220** | Price |
| 1-1/2 | 3.150 | 4.000 | **GM604501614** | Price |
| 1-1/2 | 3.150 | 4.000 | **GM60315024** | Price |
| 1-1/2 | 3.150 | 6.000 | **GM60315124** | Price |
| 2 | 3.750 | 5.620 | **GM60315032** | Price |

## PARLEC CAT50 V-Flange End Mill Holders



- Endmill Holder
- Constructed of alloy steel for long, durable service life
- Hardened to RC 56-60 for long service life
- End mill socket T.I.R. greater than .0002”

| Size (in.) | Nose | Gage Length | Order No. | Price |
|---|---|---|---|---|
| 1/8 | .690 | 2.500 | **GM96C5001EM2** | Price |
| 3/16 | .690 | 2.500 | **GM96C5018EM2** | Price |
| 1/4 | .880 | 2.500 | **GM96C5002EM2** | Price |
| 5/16 | 1.000 | 2.500 | **GM96C5031EM2** | Price |
| 3/8 | 1.000 | 2.500 | **GM96C5037EM2** | Price |
| 3/8 | 1.000 | 4.500 | **GM96C5037EM4** | Price |
| 3/8 | 1.000 | 6.500 | **GM96C5037EM6** | Price |
| 3/8 | 1.000 | 8.000 | **GM96C5037EM8** | Price |
| 7/16 | 1.250 | 2.620 | **GM96C5043EM2** | Price |
| 1/2 | 1.250 | 2.620 | **GM96C5050EM2** | Price |
| 1/2 | 1.250 | 4.620 | **GM96C5050EM4** | Price |
| 1/2 | 1.250 | 6.620 | **GM96C5050EM6** | Price |
| 1/2 | 1.250 | 8.000 | **GM96C5050EM8** | Price |
| 9/16 | 1.500 | 2.620 | **GM96C5056EM2** | Price |
| 5/8 | 1.500 | 3.750 | **GM96C5062EM3** | Price |
| 5/8 | 1.500 | 5.750 | **GM96C5062EM5** | Price |
| 5/8 | 1.500 | 7.750 | **GM96C5062EM7** | Price |
| 3/4 | 1.750 | 3.750 | **GM96C5075EM3** | Price |
| 3/4 | 1.750 | 5.750 | **GM96C5075EM5** | Price |
| 3/4 | 1.750 | 7.750 | **GM96C5075EM7** | Price |
| 3/4 | 2.750 | 1.620 | **GM96C5075EM1** | Price |
| 7/8 | 1.880 | 3.750 | **GM96C5087EM3** | Price |
| 7/8 | 1.880 | 5.750 | **GM96C5087EM5** | Price |
| 7/8 | 1.880 | 7.750 | **GM96C5087EM7** | Price |
| 1 | 2.000 | 4.000 | **GM96C5010EM4** | Price |
| 1 | 2.000 | 6.000 | **GM96C5010EM6** | Price |
| 1 | 2.000 | 8.000 | **GM96C5010EM8** | Price |
| 1 | 2.750 | 1.620 | **GM96C5010EM1** | Price |
| 1-1/4 | 2.500 | 4.000 | **GM96C5012EM4** | Price |
| 1-1/4 | 2.500 | 6.000 | **GM96C5012EM6** | Price |
| 1-1/4 | 2.500 | 8.000 | **GM96C5012EM8** | Price |
| 1-1/4 | 2.750 | 2.620 | **GM96C5012EM2** | Price |
| 1-1/2 | 2.750 | 2.620 | **GM96C5015EM2** | Price |
| 1-1/2 | 2.750 | 4.000 | **GM96C5015EM4** | Price |
| 1-1/2 | 2.750 | 6.000 | **GM96C5015EM6** | Price |
| 1-1/2 | 2.750 | 8.000 | **GM96C5015EM8** | Price |
| 2 | 3.750 | 5.620 | **GM96C5020EM5** | Price |
| 10mm | 1.000 | 2.500 | **GM96C50M10EM2** | Price |
| 12mm | 1.250 | 2.620 | **GM96C50M12EM2** | Price |
| 16mm | 1.500 | 3.750 | **GM96C50M16EM3** | Price |
| 20mm | 1.750 | 3.750 | **GM96C50M20EM3** | Price |
| 25mm | 2.000 | 4.000 | **GM96C50M25EM4** | Price |
| 32mm | 2.500 | 4.000 | **GM96C50M32EM4** | Price |

## WORLD CLASS QUALITY NST / NMTB40 Endmill Holders

- Precision End Mill Holders
- Accepts single or double end end mills except where noted



| Shank - NST40 | | | | |
|---|---|---|---|---|
| Size (in.) | Nose | Gage Length | Order No. | Price |
| 3/16 | .688 | 2.312 | **GM5140316** | Price |
| 3/8 | 1.000 | 2.312 | **GM514038** | Price |
| 1/2 | 1.578 | 2.312 | **GM514012** | Price |
| 5/8 | 1.578 | 2.312 | **GM514058** | Price |
| 3/4 | 1.578 | 2.312 | **GM514034** | Price |
| 7/8 | 2.484 | 2.937 | **GM514078** | Price |
| 1 | 2.484 | 2.937 | **GM51401** | Price |
| 1-1/4 | 2.484 | 2.937 | **GM5140114†** | Price |
| 1-1/2 | 2.953 | 3.062 | **GM5140112†** | Price |

| Shank - NST50 | | | | |
|---|---|---|---|---|
| Size (in.) | Nose | Gage Length | Order No. | Price |
| 3/16 | .875 | 2.297 | **GM5150316** | Price |
| 3/8 | 1.070 | 2.797 | **GM515038** | Price |
| 1/2 | 1.578 | 2.797 | **GM515012** | Price |
| 5/8 | 1.578 | 2.797 | **GM515058** | Price |
| 3/4 | 1.656 | 2.797 | **GM515034** | Price |
| 7/8 | 1.875 | 2.797 | **GM515078** | Price |
| 1 | 2.375 | 2.797 | **GM51501** | Price |
| 1-1/4 | 2.484 | 2.797 | **GM5150114†** | Price |
| 1-1/2 | 2.828 | 2.797 | **GM5150112†** | Price |
| 2 | 3.843 | 3.984 | **GM51502†** | Price |
| 2-1/2 | 4.922 | 4.765 | **GM5150212†** | Price |

**† Single End Endmills only**

## Briney NMTB End Mill Adapters



- Tru Position Design - A special eccentric grind technique reduces runout to .0002” when tool is installed into holder
- Twice the tool life you can get with any other end mill holder, plus half the tooling replacemnet expense because tools last longer due to even chip load and less chatter due to Briney`s special grind process
- Fewer passes to mill slots because of improved on-center rotation, saving time and improving machining quality
- Black oxide prior to finish grind

| Shank - NMTB30 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Model No. | Bore ID (in.) | Nose Dia. (in.) | Gage Length (in.) | OAI (in.) | Pull Stud Thread | Order No. | Price |
| NMTB30E-018-175 | 3/16 | .688 | 1.750 | 4.438 | 1/2-13 UNC-2B | **GM30NMTB30E018** | Price |
| NMTB30E-025-175 | 1/4 | .875 | 1.750 | 4.438 | 1/2-13 UNC-2B | **GM30NMTB30E025** | Price |
| NMTB30E-038-175 | 3/8 | 1.000 | 1.750 | 4.438 | 1/2-13 UNC-2B | **GM30NMTB30E038** | Price |
| NMTB30E-050-175 | 1/2 | 1.250 | 1.750 | 4.438 | 1/2-13 UNC-2B | **GM30NMTB30E050** | Price |
| NMTB30E-062-175 | 5/8 | 1.440 | 1.750 | 4.438 | 1/2-13 UNC-2B | **GM30NMTB30E062** | Price |
| NMTB30E-075-213 | 3/4 | 1.750 | 2.125 | 4.813 | 1/2-13 UNC-2B | **GM30NMTB30E075** | Price |
| NMTB30E-100-275 | 1 | 2.000 | 2.750 | 5.438 | 1/2-13 UNC-2B | **GM30NMTB30E100** | Price |

| Shank - NMTB40 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Model No. | Bore ID (in.) | Nose Dia. (in.) | Gage Length (in.) | OAI (in.) | Pull Stud Thread | Order No. | Price |
| NMTB40E-018-231 | 3/16 | .688 | 2.312 | 6.000 | 5/8-11 UNC-2B | **GM30NMTB40E018** | Price |
| NMTB40E-025-231 | 1/4 | .875 | 2.312 | 6.000 | 5/8-11 UNC-2B | **GM30NMTB40E025** | Price |
| NMTB40E-038-231 | 3/8 | 1.000 | 2.312 | 6.000 | 5/8-11 UNC-2B | **GM30NMTB40E038** | Price |
| NMTB40E-050-231 | 1/2 | 1.250 | 2.312 | 6.000 | 5/8-11 UNC-2B | **GM30NMTB40E050** | Price |
| NMTB40E-062-231 | 5/8 | 1.500 | 2.312 | 6.000 | 5/8-11 UNC-2B | **GM30NMTB40E062** | Price |
| NMTB40E-075-231 | 3/4 | 1.750 | 2.312 | 6.000 | 5/8-11 UNC-2B | **GM30NMTB40E075** | Price |
| NMTB40E-100-300 | 1 | 1.900 | 3.000 | 6.688 | 5/8-11 UNC-2B | **GM30NMTB40E100** | Price |
| NMTB40E-125-306 | 1-1/4 | 2.500 | 3.062 | 6.750 | 5/8-11 UNC-2B | **GM30NMTB40E125** | Price |

| Shank - NMTB50 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Model No. | Bore ID (in.) | Nose Dia. (in.) | Gage Length (in.) | OAI (in.) | Pull Stud Thread | Order No. | Price |
| NMTB50E-038-275 | 3/8 | 1.000 | 2.750 | 7.750 | 1-8 UNC-2B | **GM30NMTB50E038** | Price |
| NMTB50E-050-275 | 1/2 | 1.250 | 2.750 | 7.750 | 1-8 UNC-2B | **GM30NMTB50E050** | Price |
| NMTB50E-062-275 | 5/8 | 1.500 | 2.750 | 7.750 | 1-8 UNC-2B | **GM30NMTB50E062** | Price |
| NMTB50E-075-275 | 3/4 | 1.750 | 2.750 | 7.750 | 1-8 UNC-2B | **GM30NMTB50E075** | Price |
| NMTB50E-100-275 | 1 | 2.000 | 2.750 | 7.750 | 1-8 UNC-2B | **GM30NMTB50E100** | Price |
| NMTB50E-125-275 | 1-1/4 | 2.500 | 2.750 | 7.750 | 1-8 UNC-2B | **GM30NMTB50E125** | Price |
| NMTB50E-150-350 | 1-1/2 | 2.750 | 3.500 | 8.500 | 1-8 UNC-2B | **GM30NMTB50E150** | Price |
| NMTB50E-200-475 | 2 | 3.750 | 4.750 | 9.750 | 1-8 UNC-2B | **GM30NMTB50E200** | Price |

## RAPIDHOLD™ CAT V-Flange Jacobs Taper Arbors

- Produced according to AT3 specifications
- Tools are made of high quality steel
- Balanced by design
- Not coolant thru capable
- Jacobs taper T.I.R. 0.0002”



| | | CAT40 | | CAT50 | |
|---|---|---|---|---|---|
| Chuck Taper | Gage Length (in.) | Order No. | Price | Order No. | Price |
| 2JT | 1.5 | **RH2322650** | Price | **RH2322655** | Price |
| 2JT | 2.5 | **RH2321604** | Price | **-** | - |
| 33JT | 1.5 | **RH2322652** | Price | **RH2322657** | Price |
| 33JT | 2.5 | **RH2321606** | Price | **RH2322607** | Price |
| 3JT | 1.5 | **RH2322651** | Price | **RH2322656** | Price |
| 3JT | 2.8 | **RH2321605** | Price | **RH2322606** | Price |
| 4JT | 1.5 | **RH2322653** | Price | **RH2322658** | Price |
| 4JT | 2.5 | **RH2321607** | Price | **RH2322608** | Price |
| 5JT | 1.5 | **-** | - | **RH2322659** | Price |
| 6JT | 1.5 | **RH2322654** | Price | **RH2322660** | Price |
| 6JT | 2.5 | **RH2321608** | Price | **-** | - |

## TECHNIKS CAT V-Flange Jacobs Taper Arbors

- Taper ground to AT3 Accuracy
- The holders are low cost and offer superior accuracy



| | | CAT40 | | CAT50 | |
|---|---|---|---|---|---|
| Chuck Taper | Gage Length (in.) | Order No. | Price | Order No. | Price |
| 2JT | 1.57 | **TE1222511** | Price | **TE1222521** | Price |
| 33JT | 1.57 | **TE1222515** | Price | **TE1222525** | Price |
| 3JT | 1.57 | **TE1222512** | Price | **TE1222527** | Price |
| 4JT | 1.57 | **-** | - | **TE1222529** | Price |
| 5JT | 1.57 | **-** | - | **TE1222531** | Price |
| 6JT | 1.57 | **TE1222513** | Price | **TE1222523** | Price |

## PARLEC CAT V-Flange Jacobs Taper Arbors

- Constructed of alloy steel for long, durable service life
- Hardened to RC 56-60 for long service life
- Shiny taper with black oxide finish
- Taper T.I.R. ≤ .0004″
- Parsymmetry™ design for high-speed operation



| | | CAT40 | | CAT50 | |
|---|---|---|---|---|---|
| Chuck Taper | Gage Length (in.) | Order No. | Price | Order No. | Price |
| 2JT | 1.5 | **GM96C4002JT1** | Price | **GM96C5002JT1** | Price |
| 33JT | 1.5 | **GM96C4033JT1** | Price | **GM96C5033JT1** | Price |
| 3JT | 1.5 | **GM96C4003JT1** | Price | **GM96C5003JT1** | Price |
| 4JT | 1.5 | **GM96C4004JT1** | Price | **GM96C5004JT1** | Price |
| 6JT | 1.5 | **-** | - | **GM96C5006JT1** | Price |

## Briney NMTB Jacobs Taper Adapters

- Built from certified materials that can be traced backed to the mill
- The tapers are gournd to an AT2 to AT3 resuling in maximum spindle contact
- Long life due to internal specialized heat treat processess
- ISO 9001:2008 policies and practices
- .0002” concentricty or less from taper shank to arbor diameter
- Black oxide prior to finish grind



| Mount | Nose Dia. (in.) | Flange Dia. (in.) | Flange Thickness (in.) | Thread | Order No. | Price |
|---|---|---|---|---|---|---|
| NMTB30 | .488 | 1.810 | .344 | 1/2-13 UNC-2B | **GM30NTMB30JT2** | Price |
| NMTB30 | .561 | 1.810 | .344 | 1/2-13 UNC-2B | **GM30NTMB30JT33** | Price |
| NMTB30 | .746 | 1.810 | .344 | 1/2-13 UNC-2B | **GM30NTMB30JT3** | Price |
| NMTB40 | .488 | 2.500 | .313 | 5/8-11 UNC-2B | **GM30NMTB40JT2** | Price |
| NMTB40 | .561 | 2.500 | .313 | 5/8-11 UNC-2B | **GM30NMTB40JT33** | Price |
| NMTB40 | .624 | 2.500 | .313 | 5/8-11 UNC-2B | **GM30NMTB40JT6** | Price |
| NMTB40 | .746 | 2.500 | .313 | 5/8-11 UNC-2B | **GM30NMTB40JT3** | Price |
| NMTB40 | 1.037 | 2.500 | .313 | 5/8-11 UNC-2B | **GM30NMTB40JT4** | Price |
| NMTB50 | .488 | 3.500 | .453 | 1-8 UNC-2B | **GM30NMTB50JT2** | Price |
| NMTB50 | .561 | 3.500 | .453 | 1-8 UNC-2B | **GM30NMTB50JT33** | Price |
| NMTB50 | .624 | 3.500 | .453 | 1-8 UNC-2B | **GM30NMTB50JT6** | Price |
| NMTB50 | 1.037 | 3.500 | .453 | 1-8 UNC-2B | **GM30NMTB50JT4** | Price |

## RAPIDHOLD™ V-Flange Morse Taper Adapters

- Balanced by design
- No thru coolant capability
- Recommended for tools with a Morse taper and tang



| | CAT40 | | | CAT50 | | |
|---|---|---|---|---|---|---|
| Inside Taper | Gage Length (in.) | Order No. | Price | Gage Length (in.) | Order No. | Price |
| 1MT | 1.7500 | **RH2421609** | Price | - | **-** | - |
| 2MT | 2.4400 | **RH2421610** | Price | 2.0000 | **RH2422610** | Price |
| 3MT | 3.0000 | **RH2421611** | Price | 2.5000 | **RH2422611** | Price |
| 4MT | 3.8800 | **RH2421612** | Price | 3.3800 | **RH2422612** | Price |
| 5MT | - | **-** | - | 3.7500 | **RH2422613** | Price |

## TECHNIKS V-Flange Morse Taper Adapters

- Taper ground to AT3 accuracy or better
- .0002" runout from taper to tool pocket
- Each holder lab certified for accuracy



| | CAT40 | | | CAT50 | | |
|---|---|---|---|---|---|---|
| Inside Taper | Gage Length (in.) | Order No. | Price | Gage Length (in.) | Order No. | Price |
| 1MT | 1.7500 | **TE1222611** | Price | - | **-** | - |
| 2MT | 2.0000 | **TE1222613** | Price | 2.3622 | **TE1222623** | Price |
| 3MT | 2.7500 | **TE1222615** | Price | 2.5600 | **TE1222625** | Price |
| 4MT | 3.7500 | **TE1222617** | Price | 3.7500 | **TE1222627** | Price |
| 5MT | - | **-** | - | 4.1300 | **TE1222629** | Price |

## PARLEC V-Flange Morse Taper Adapters

- Constructed of alloy steel
- Hardened to RC 56-60
- Shiny taper with black oxide finish
- Taper T.I.R. .0002"
- Parsymmetry™ design for high-speed operation
- Plastic bumper protects spindle and holder during tool changes - Available on NMTB 40 and 50 holders only



| | CAT40 | | | CAT50 | | |
|---|---|---|---|---|---|---|
| Inside Taper | Gage Length | Order No. | Price | Gage Length | Order No. | Price |
| 1MT | 1.7500 | **GM96C4001MT1** | Price | 1.5000 | **GM96C5001MT1** | Price |
| 2MT | 1.7500 | **GM96C4002MT1** | Price | 1.7500 | **GM96C5002MT1** | Price |
| 3MT | 2.5000 | **GM96C4003MT2** | Price | 2.5000 | **GM96C5003MT2** | Price |
| 4MT | 3.5000 | **GM96C4004MT3** | Price | 3.1800 | **GM96C5004MT3** | Price |
| 5MT | - | **-** | - | 4.7500 | **GM96C5005MT4** | Price |

## V-Flange Morse Taper Adapters

- Taper T.I.R. .0002"
- Hardened to RC 56-60



| | CAT40 | | | CAT50 | | |
|---|---|---|---|---|---|---|
| Inside Taper | Gage Length (in.) | Order No. | Price | Gage Length (in.) | Order No. | Price |
| 1MT | 1.7500 | **GM62334001** | Price | 1.5000 | **GM62335001** | Price |
| 2MT | 2.2500 | **GM62334002** | Price | 2.0000 | **GM62335002** | Price |
| 3MT | 2.7500 | **GM62334003** | Price | 2.5000 | **GM62335003** | Price |
| 4MT | 3.6300 | **GM62334004** | Price | 3.3800 | **GM62335004** | Price |
| 5MT | - | **-** | - | 3.7500 | **GM62335005** | Price |

## Briney V-Flange Morse Taper Adapters

- .0002" concentricty or less from taper shank to test diameter
- Certified with actual dimensions etched on the test bar
- For inspection of machine spindle runout
- Ships in wooden storage case



| | NMTB40 | | | NMTB50 | | |
|---|---|---|---|---|---|---|
| Inside Taper | Gage Length | Order No. | Price | Gage Length | Order No. | Price |
| 2MT | 1.250 | **GM30NMTB40MT2** | Price | 2.440 | **GM30NMTB50MT2** | Price |
| 3MT | 1.620 | **GM30NMTB40MT3** | Price | 1.625 | **GM30NMTB50MT3** | Price |
| 4MT | 3.500 | **GM30NMTB40MT4** | Price | 3.750 | **GM30NMTB50MT4** | Price |

## BT30 V-Flange Shell Mill Holders

- Offers H6 arbor tolerance for less chatter and better tool life
- Lab certified for dimensional accuracy
- The taper is ground to AT3 tolerance for maximum spindle contact



| Pilot Dia. (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|
| 3/4 | 1.18 | **TE1216611** | Price |
| 1 | 1.77 | **TE1216612** | Price |
| 1-1/4 | 1.77 | **TE1216614** | Price |

## BT40 V-Flange Shell Mill Holders

- Offers H6 arbor tolerance for less chatter and better tool life
- Lab certified for dimensional accuracy
- The taper is ground to AT3 tolerance for maximum spindle contact



| Pilot Dia. (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|
| 3/4 | 1.00 | **TE121661534** | Price |
| 3/4 | 4.00 | **TE12166154** | Price |
| 3/4 | 6.00 | **TE12166156** | Price |
| 1 | 1.77 | **TE1216615** | Price |
| 1 | 3.54 | **TE1216617** | Price |
| 1-1/4 | 1.77 | **TE1216620** | Price |
| 1-1/2 | 2.36 | **TE1216626** | Price |
| 1-1/4 | 4.00 | **TE12166204** | Price |

## BT50 V-Flange Shell Mill Holders

- Offers H6 arbor tolerance for less chatter and better tool life
- Lab certified for dimensional accuracy
- The taper is ground to AT3 tolerance for maximum spindle contact



| Pilot Dia. (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|
| 1 | 1.77 | **TE1216639** | Price |
| 1-1/2 | 1.77 | **TE1216645** | Price |
| 1 | 3.00 | **TE12166393** | Price |
| 1-1/4 | 1.77 | **TE1216642** | Price |
| 2 | 2.95 | **TE1216648** | Price |

## RAPIDHOLD BT40 V-Flange Shell Mill Holders

- Produced according to AT3 specifications
- Tools are made of high quality alloy steel
- Shell end mill pilot T.I.R. ≤ .0002”
- Thru the spindle coolant capability (Except R8 Style)
- Constructed of alloy steel



| Pilot Dia. (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|
| 1 | 1.77 | **RH2524502R** | Price |
| 1-1/2 | 2.36 | **RH2524504R** | Price |
| 1-1/4 | 2.36 | **RH2524503R** | Price |
| 3/4 | 1.77 | **RH2524501R** | Price |
| 3/4 | 1.77 | **RH2524505R** | Price |

## RAPIDHOLD BT50 V-Flange Shell Mill Holders

- Produced according to AT3 specifications
- Tools are made of high quality alloy steel
- Shell end mill pilot T.I.R. ≤ .0002”
- Thru the spindle coolant capability (Except R8 Style)
- Constructed of alloy steel



| Pilot Dia. (in.) | Gage Length (in.) | Order No. | Price |
|---|---|---|---|
| 1 | 1.77 | **RH2525502R** | Price |
| 1 | 4.00 | **RH2525503R** | Price |
| 1-1/2 | 1.77 | **RH2525505R** | Price |
| 1-1/2 | 4.00 | **RH2525506R** | Price |
| 1-1/4 | 4.00 | **RH2525504R** | Price |
| 2 | 2.36 | **RH2525507R** | Price |
| 2 | 4.00 | **RH2525508R** | Price |
| 3/4 | 4.00 | **RH2525501R** | Price |

## CAT40 & CAT50 V-Flange Shell Mill Holders

- Nose configuration does not conform to ANSI specifications
- Tool Holder designed for Fadal machining center



| Shank - CAT40 | | | |
|---|---|---|---|
| Pilot Dia. (in.) | Gage Length (in.) | Order No. | Price |
| 1/2 | 1.38 | **GM62324008** | Price |
| 3/4 | 1.38 | **GM62324012** | Price |
| 1 | 2.00 | **GM62324016** | Price |
| 1-1/2 | 2.41 | **GM62324024** | Price |

| Shank - CAT50 | | | |
|---|---|---|---|
| Pilot Dia. (in.) | Gage Length (in.) | Order No. | Price |
| 3/4 | 1.50 | **GM62325012** | Price |
| 1 | 4.00 | **GM62325116** | Price |
| 1-1/4 | 1.50 | **GM62325020** | Price |
| 1-1/4 | 3.50 | **GM62325120** | Price |
| 1-1/2 | 2.41 | **GM62325024** | Price |
| 2 | 2.41 | **GM62325032** | Price |
| 2-1/2 | 2.41 | **GM62325040** | Price |

## RAPIDHOLD™ CAT40 & CAT50 V-Flange Shell Mill Holders

- Produced according to AT3 specifications
- Tools are made of high quality alloy steel
- Shell end mill pilot T.I.R. ≤ .0002”
- Thru the spindle coolant capability (Except R8 Style)
- Constructed of alloy steel



| Shank - CAT40 | | | |
|---|---|---|---|
| Pilot Dia. (in.) | Gage Length (in.) | Order No. | Price |
| 1 | 2.06 | **RH2521504R** | Price |
| 1 | 4.00 | **RH2521505R** | Price |
| 1/2 | 1.38 | **RH2521501R** | Price |
| 1-1/2 | 2.42 | **RH2521508R** | Price |
| 1-1/2 | 4.00 | **RH2521509R** | Price |
| 1-1/4 | 2.13 | **RH2521506R** | Price |
| 1-1/4 | 4.00 | **RH2521507R** | Price |
| 3/4 | 1.38 | **RH2521502R** | Price |
| 3/4 | 3.50 | **RH2521503R** | Price |

| Shank - CAT50 | | | |
|---|---|---|---|
| Pilot Dia. (in.) | Gage Length (in.) | Order No. | Price |
| 1 | 2.06 | **RH2522506R** | Price |
| 1 | 4.00 | **RH2522507R** | Price |

| Shank - CAT50 | | | |
|---|---|---|---|
| Pilot Dia. (in.) | Gage Length (in.) | Order No. | Price |
| 1 | 6.00 | **RH2522508R** | Price |
| 1/2 | 1.38 | **RH2522501R** | Price |
| 1/2 | 3.50 | **RH2522502R** | Price |
| 1-1/2 | 2.41 | **RH2522512R** | Price |
| 1-1/2 | 4.00 | **RH2522513R** | Price |
| 1-1/2 | 6.00 | **RH2522514R** | Price |
| 1-1/4 | 2.12 | **RH2522509R** | Price |
| 1-1/4 | 4.00 | **RH2522510R** | Price |
| 1-1/4 | 6.00 | **RH2522511R** | Price |
| 3/4 | 1.38 | **RH2522503R** | Price |
| 3/4 | 3.50 | **RH2522504R** | Price |
| 3/4 | 6.00 | **RH2522505R** | Price |

## CAT40 & CAT50 V-Flange Shell Mill Holders

- Offers H6 arbor tolerance for less chatter and better tool life
- Lab certified for dimensional accuracy
- The taper is ground to AT3 tolerance for maximum spindle contact



| Shank - CAT40 | | | |
|---|---|---|---|
| Pilot Dia. (in.) | Gage Length (in.) | Order No. | Price |
| 1/2 | 1.38 | **TE1222709** | Price |
| 1/2 | 4.00 | **TE12227094** | Price |
| 3/4 | 1.38 | **TE1222711** | Price |
| 3/4 | 4.00 | **TE12227114** | Price |
| 3/4 | 6.00 | **TE12227116** | Price |
| 1 | 2.00 | **TE1222713** | Price |
| 1 | 4.00 | **TE12227134** | Price |
| 1 | 6.00 | **TE12227136** | Price |
| 1-1/4 | 2.21 | **TE1222715** | Price |
| 1-1/4 | 4.00 | **TE12227154** | Price |
| 1-1/4 | 6.00 | **TE12227156** | Price |
| 1-1/2 | 2.21 | **TE1222717** | Price |
| 1-1/2 | 4.00 | **TE12227174** | Price |

| Shank - CAT50 | | | |
|---|---|---|---|
| Pilot Dia. (in.) | Gage Length (in.) | Order No. | Price |
| 1/2 | 1.50 | **TE1222719** | Price |
| 3/4 | 1.50 | **TE1222721** | Price |
| 3/4 | 3.50 | **TE122272135** | Price |

| Shank - CAT50 | | | |
|---|---|---|---|
| Pilot Dia. (in.) | Gage Length (in.) | Order No. | Price |
| 3/4 | 5.50 | **TE122272155** | Price |
| 3/4 | 8.00 | **TE12227218** | Price |
| 3/4 | 10.0 | **TE122272110** | Price |
| 1 | 2.00 | **TE1222723** | Price |
| 1 | 4.00 | **TE12227234** | Price |
| 1 | 6.00 | **TE12227236** | Price |
| 1 | 8.00 | **TE12227238** | Price |
| 1 | 10.0 | **TE122272310** | Price |
| 1-1/4 | 1.50 | **TE1222725** | Price |
| 1-1/4 | 3.50 | **TE122272535** | Price |
| 1-1/4 | 6.00 | **TE12227256** | Price |
| 1-1/4 | 8.00 | **TE12227258** | Price |
| 1-1/2 | .94 | **TE12227278** | Price |
| 1-1/2 | 2.41 | **TE1222727** | Price |
| 1-1/2 | 4.00 | **TE12227274** | Price |
| 1-1/2 | 6.00 | **TE12227276** | Price |
| 2 | 2.41 | **TE1222729** | Price |
| 2 | 4.00 | **TE12227294** | Price |

## PARLEC CAT40 & CAT50 V-Flange Shell Mill Holders

- Shiney taper with black oxide finish
- Parsymmetry™ design for high speed operation



| Shank - CAT40 | | | |
|---|---|---|---|
| Pilot Dia. (in.) | Gage Length (in.) | Order No. | Price |
| - | 1.00 | **GM96C4010SM1** | Price |
| - | 1.38 | **GM96C4075SM1** | Price |
| - | 1.50 | **GM96C4075SM2** | Price |
| - | 1.62 | **GM96C4012SM1** | Price |
| - | 2.00 | **GM96C4010SM2** | Price |
| - | 2.41 | **GM96C4015SM2** | Price |
| - | 4.00 | **GM96C4010SM4** | Price |
| - | 4.00 | **GM96C4012SM4** | Price |
| - | 4.00 | **GM96C4015SM4** | Price |
| - | 4.00 | **GM96C4075SM4** | Price |

| Shank - CAT50 | | | |
|---|---|---|---|
| Pilot Dia. (in.) | Gage Length (in.) | Order No. | Price |
| - | 1.50 | **GM96C5012SM1** | Price |
| - | 1.50 | **GM96C5075SM1** | Price |

| Shank - CAT50 | | | |
|---|---|---|---|
| Pilot Dia. (in.) | Gage Length (in.) | Order No. | Price |
| - | 2.00 | **GM96C5010SM2** | Price |
| - | 2.41 | **GM96C5015SM2** | Price |
| - | 2.41 | **GM96C5020SM2** | Price |
| - | 2.41 | **GM96C5025SM2** | Price |
| - | 3.50 | **GM96C5012SM3** | Price |
| - | 3.50 | **GM96C5075SM3** | Price |
| - | 4.00 | **GM96C5015SM4** | Price |
| - | 4.00 | **GM96C5020SM4** | Price |
| - | 4.00 | **GM96C5025SM4** | Price |
| - | 5.50 | **GM96C5012SM5** | Price |
| - | 5.50 | **GM96C5075SM5** | Price |
| - | 6.00 | **GM96C5010SM6** | Price |
| - | 6.00 | **GM96C5015SM6** | Price |
| - | 6.00 | **GM96C5020SM6** | Price |
| - | 6.00 | **GM96C5025SM6** | Price |

## WORLD CLASS QUALITY NST / NMTB V-Flange Shell Mill Holders

- Quality Import standard grade for most shop requirements both styles are hardened & ground



| Shank - NST / NMTB40 | | | |
|---|---|---|---|
| Pilot Dia. (in.) | Gage Length (in.) | Order No. | Price |
| 3/4 | 1.52 | **GL504034C58** | Price |
| 1 | 1.60 | **GL5041C78** | Price |
| 1-1/2 | 2.11 | **GL504112C78** | Price |
| 1-1/4 | 2.11 | **GL504114C78** | Price |

| Shank - NST / NMTB50 | | | |
|---|---|---|---|
| Pilot Dia. (in.) | Gage Length (in.) | Order No. | Price |
| 3/4 | 1.66 | **GL505034C58** | Price |
| 1 | 1.74 | **GL5051C78** | Price |
| 1-1/4 | 2.25 | **GL505114C78** | Price |
| 1-1/2 | 2.25 | **GL505112C78** | Price |
| 2-1/2 | 2.09 | **GL505212C78** | Price |
| 2 | 3.12 | **GL5052C78** | Price |

## Briney NMTB Shell Mill Holders

- .0002" concentricty or less from taper shank to arbor diameter
- Black oxide prior to finish grind
- Holder is drilled thru for thru coolant - recommend screw from facemill manufacturer for proper plumbing if coolant needs to be plumbed thru cutter



| Shank - NMTB30 | | | | |
|---|---|---|---|---|
| Pilot Dia. (in.) | Gage Length (in.) | Thread Size | Order No. | Price |
| 1 | 1.312 | 1/2-13 UNC-2B | **GM30NMTB30SM100** | Price |
| 3/4 | 1.312 | 1/2-13 UNC-2B | **GM30NMTB30SM075** | Price |

| Shank - NMTB40 | | | | |
|---|---|---|---|---|
| Pilot Dia. (in.) | Gage Length (in.) | Thread Size | Order No. | Price |
| 1 | 1.500 | 5/8-11 UNC-2B | **GM30NMTB40SM100** | Price |
| 1-1/2 | 2.400 | 5/8-11 UNC-2B | **GM30NMTB40SM150** | Price |
| 1-1/4 | 1.500 | 5/8-11 UNC-2B | **GM30NMTB40SM125** | Price |
| 3/4 | 1.500 | 5/8-11 UNC-2B | **GM30NMTB40SM075** | Price |

| Shank - NMTB50 | | | | |
|---|---|---|---|---|
| Pilot Dia. (in.) | Gage Length (in.) | Thread Size | Order No. | Price |
| 1 | 1.500 | 1-8 UNC-2B | **GM30NMTB50SM100** | Price |
| 1-1/2 | 2.400 | 1-8 UNC-2B | **GM30NMTB50SM150** | Price |
| 1-1/4 | 1.500 | 1-8 UNC-2B | **GM30NMTB50SM125** | Price |
| 2 | 2.400 | 1-8 UNC-2B | **GM30NMTB50SM200** | Price |
| 3/4 | 1.500 | 1-8 UNC-2B | **GM30NMTB50SM075** | Price |

## Shell End Mill Arbor Screws

- Compatible with all face mills
- Coolant thru screws up to 1500 PSI



| Type - Shell End Mill Replacement Screw | | | | |
|---|---|---|---|---|
| | | | Quality Import | |
| For Pilot Dia. (in.) | Thread Size (in.) | Head Dia. (in.) | Order No. | Price |
| 1/2 | 1/4-28 | 5/8 | **GR5201** | Price |
| 3/4 | 3/8-24 | 7/8 | **GR5202** | Price |
| 1 | 1/2-20 | 1-3/16 | **GR5203** | Price |
| 2 | 1-14 | 2.50 | **GR5206** | Price |
| 1-1/2 | 3/4-16 | 1-7/8 | **GR5205** | Price |
| 1-1/4 | 5/8-18 | 1.50 | **GR5204** | Price |

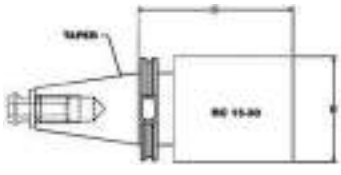
| Type - Shell Mill Arbor Screw | | | | |
|---|---|---|---|---|
| | | | Techniks | |
| For Pilot Dia. (in.) | Thread Size (in.) | Head Dia. (in.) | Order No. | Price |
| 1 | 1/2-20 | 1-3/16 | **TE12WF1** | Price |
| 1/2 | 1/4-28 | 5/8 | **TE12WF05** | Price |
| 1-1/2 | 3/4-16 | 1-7/8 | **TE12WF15** | Price |
| 1-1/4 | 5/8-18 | 1-1/2 | **TE12WF125** | Price |

| Type - Shell Mill Arbor Screw | | | | |
|---|---|---|---|---|
| | | | Techniks | |
| For Pilot Dia. (in.) | Thread Size (in.) | Head Dia. (in.) | Order No. | Price |
| 1-1/4 | 5/8-18 | 1-7/8 | **TE12WF1254** | Price |
| 2 | 1-14 | 2 | **TE12WF2** | Price |
| 2-1/2 | 1-14 | 2-1/2 | **TE12WF25** | Price |
| 3/4 | 3/8-24 | 7/8 | **TE12WF075** | Price |

| Type - Shell Mill Arbor Screw - Coolant Thru | | | | |
|---|---|---|---|---|
| | | | Techniks | |
| For Pilot Dia. (in.) | Thread Size (in.) | Head Dia. (in.) | Order No. | Price |
| 1 | 1/2-20 | 1-3/16 | **TE12WFC11** | Price |
| 1/2 | 1/4-28 | 5/8 | **TE12WFC105** | Price |
| 1-1/2 | 3/4-16 | 1-7/8 | **TE12WFC115** | Price |
| 1-1/4 | 5/8-18 | 1-1/2 | **TE12WFC1125** | Price |
| 2 | 1-14 | 2-1/2 | **TE12WFC12** | Price |
| 2-1/2 | 1-14 | 3-1/8 | **TE12WFC125** | Price |
| 3/4 | 3/8-24 | 7/8 | **TE12WFC1075** | Price |

## PARLEC CAT V-Flange Blank Bars

- Constructed of ANSI 8620 steel for long, durable service life
- Taper hardened to RC 56-60 for long service life
- Body hardened to RC 15-30 to allow for machining
- Shiny taper with black oxide finish for the best combination of accuracy and durability
- Parsymmetry™ design for high-speed operation





| Nose Dia. B (in.) | Gage Length C (in.) | Order No. | Price |
|---|---|---|---|
| 2.75 | 8.0000 | **GM96C5027BB8** | Price |
| 4 | 7.0000 | **GM96C5040BB7** | Price |
| 4 | 11.0000 | **GM96C5040BB1** | Price |
| 6.12 | 7.0000 | **GM96C5061BB7** | Price |

## Briney Precision Test Bars

- .0002" concentricty or less from taper shank to test diameter
- Certified with actual dimensions etched on the test bar
- For inspection of machine spindle runout
- Ships in wooden storage case



| Model No. | Outside Dia. (in.) | Gage Length (in.) | OAL (in.) | Taper | Order No. | Price |
|---|---|---|---|---|---|---|
| BT30PTB-150-800 | 1.50 | 8.00 | 9.906 | BT30 | **GM30PTB150800** | Price |
| BT50PTB-200-1200 | 2.00 | 12.00 | 16.008 | BT50 | **GM30BT50PTB200** | Price |
| V40PTB-200-1000 | 2.00 | 10.00 | 12.687 | CAT40 | **GM30V40PTB20010** | Price |
| V50PTB-200-1200 | 2.00 | 12.00 | 16.000 | CAT50 | **GM30PTB2001200** | Price |
| HSK50APTB-150--800 | 1.50 | 8.00 | 8.980 | HSK50A | **GM30APTB150800** | Price |
| HSK63APTB-200-1000 | 2.00 | 10.00 | 11.256 | HSK63A | **GM30HSK63APTB20** | Price |
| HSK80APTB-200-1000 | 2.00 | 10.00 | 11.571 | HSK80A | **GM30HSK80APTB20** | Price |
| HSK100APTB-200-1200 | 2.00 | 12.00 | 13.965 | HSK100A | **GM30HSK100APTB2** | Price |

## Capto-Compatible ER Chucks

- Balance to 25,000 RPM at G2.5
- T.I.R. 0.0001" or better
- PowerCOAT Nut Included
- Compatible with the Capto tool system
- Techniks products are not affiliated with or endorsed by Sandvik AB

New!

- Handles a wide range of machining tasks without having to buy dedicated toolholders
- Simply choose the right size collet for the job, set tool depth, and tighten the collet nut and pull stud to the proper torque using a torque wrench and tightening fixutre
- Certified for accuracy and balance
- Each holder comes with a complete lab report



| Model No. | Collet Series | Gage Length | Nose Dia. | Order No. | Price |
|---|---|---|---|---|---|
| 143.123.08.600 | ER8 | 6 | 12mm | **TE1214312308600** | Price |
| 143.123.11.600 | ER11 | 6 | 19mm | **TE1214312311600** | Price |
| 141.122.16.070 | ER16 | 70mm | 28mm | **TE1214112216070** | Price |
| 142.122.16.100 | ER16 | 100mm | 28mm | **TE1214212216100** | Price |
| 143.123.16.600 | ER16 | 6 | 22mm | **TE1214312316600** | Price |
| 143.122.16.100 | ER16 | 100mm | 28mm | **TE1214312216100** | Price |
| 143.123.20.600 | ER20 | 6 | 28mm | **TE1214312320600** | Price |

| Model No. | Collet Series | Gage Length | Nose Dia. | Order No. | Price |
|---|---|---|---|---|---|
| 141.122.25.052 | ER25 | 52mm | 42mm | **TE1214112225052** | Price |
| 142.122.25.055 | ER25 | 55mm | 42mm | **TE1214212225055** | Price |
| 143.122.25.060 | ER25 | 60mm | 42mm | **TE1214312225060** | Price |
| 141.122.32.054 | ER32 | 54mm | 50mm | **TE1214112232054** | Price |
| 142.122.32.057 | ER32 | 57mm | 50mm | **TE1214212232057** | Price |
| 143.122.32.070 | ER32 | 70mm | 50mm | **TE1214312232070** | Price |
| 143.122.40.065 | ER40 | 65mm | 63mm | **TE1214312240065** | Price |

## C4 & C6 End Mill Holders

- For turn/mill machines that accept "C" style toolholders
- Balanced to 15,000 RPM at G6.3 tolerance
- Each holder is individually lab tested and certified for quality and accuracy and comes with it's own report
- Coolant-thru spindle is a standard feature



New!

| Mount - C4 | | | | |
|---|---|---|---|---|
| Description (in.) | Nose Diameter (in.) | Bore ID (in.) | Order No. | Price |
| C4 x SLB 5/16 - 1.97 | .88 | .3125 | **TE1214165355197** | Price |
| C4 x SLN 1/2 - 2.17 | 1.25 | .5 | **TE1214165358217** | Price |
| C4 x SLN 1/4 - 1.97 | .78 | .25 | **TE1214165354197** | Price |
| C4 x SLN 3/8 - 1.97 | 1 | .375 | **TE1214165356197** | Price |
| C4 x SLN 5/8 - 2.17 | 1.5 | .625 | **TE1214165361217** | Price |

| Mount - C6 | | | | |
|---|---|---|---|---|
| Description (in.) | Nose Diameter (in.) | Bore ID (in.) | Order No. | Price |
| C6 x SLN 1 - 3.15 | 2 | 1 | **TE1214365368315** | Price |
| C6 x SLN 1/2 - 2.36 | 1.25 | .5 | **TE1214365358236** | Price |
| C6 x SLN 1/4 - 2.16 | .78 | .25 | **TE1214365354217** | Price |
| C6 x SLN 3/4 - 2.56 | 1.75 | .75 | **TE1214365364256** | Price |
| C6 x SLN 3/8 - 2.36 | 1 | .375 | **TE1214365356236** | Price |
| C6 x SLN 5/16 - 2.17 | .88 | .3125 | **TE1214365355217** | Price |
| C6 x SLN 5/8 - 2.56 | 1.5 | .625 | **TE1214365361256** | Price |

## C4 & C6 SlimFit Holders

- For turn/mill machines that accept "C" style toolholders
- Balanced to 25,000 RPM at G2.5 tolerance
- T.I.R. is 0.0001" or better
- Nose diameter is only 0.55" for better performance in tight spaces
- Each holder is individually lab tested and certified for quality and accuracy and comes with it's own report
- Coolant-thru is a standard feature



| Model No. | Description | Nose Dia. (in.) | Order No. | Price |
|---|---|---|---|---|
| 141.648.06.075 | C4 x SBL 6-75mm | .55 | **TE1214164806075** | Price |
| 143.648.06.080 | C6 x SBL 6-80mm | .55 | **TE1214364806080** | Price |

## Capto Face Mill Arbor

- For turn/mill machines that accept "C" style toolholders
- Techniks Certified for accuracy & balance and backed by performance guarantee
- Compatible with coolant-thru face mills
- H6 arbor tolerance for less chatter and better cutter life



| Model No. | Description (in.) | Nose Dia. (in.) | Order No. | Price |
|---|---|---|---|---|
| 141.151.64.100 | C4 x FMA 3/4-1 | .88 | **TE1214115164100** | Price |
| 142.151.68.157 | C5 x FMA 1 - 1.57 | 1.24 | **TE1214215168157** | Price |
| 143.151.64.100 | C6 x FMA 3/4 - 1 | .88 | **TE1214315164100** | Price |
| 143.151.68.200 | C6 x FMA 1 - 2 | 1.24 | **TE1214315168200** | Price |
| 143.151.72.200 | C6 x FMA 1-1/4 - 2 | 1.614 | **TE1214315172200** | Price |

## Capto C6 Turning Tools

- High accuracy for best repeatability
- Turning, boring, threading, grooving
- Recommend LT1000 grade inserts



| Mount - C6, MCLN | | | | | | | |
|---|---|---|---|---|---|---|---|
| Model No. | Description | Nose Dia. | Projection length | OAL | Insert | Order No. | Price |
| 143.475.12L.065 | C6-MCLNL-DX12 | 63mm | 65mm | 103mm | CN__43_ | **TE1214347512L06** | Price |
| 143.475.12R.065 | C6-MCLNR-DX12 | 63mm | 65mm | 103mm | CN__43_ | **TE1214347512R06** | Price |

| Mount - C6, MDJN | | | | | | | |
|---|---|---|---|---|---|---|---|
| Model No. | Description | Nose Dia. | Projection length | OAL | Insert | Order No. | Price |
| 143.476.15L.075 | C6-MDJNL-EX15 | 63mm | 75mm | 113mm | DN__43_ | **TE1214347615L07** | Price |
| 143.476.15R.075 | C6-MDJNR-EX15 | 63mm | 75mm | 113mm | DN__43_ | **TE1214347615R07** | Price |

| Mount - C6, MDNN | | | | | | | |
|---|---|---|---|---|---|---|---|
| Model No. | Description | Nose Dia. | Projection length | OAL | Insert | Order No. | Price |
| 143.481.15N.100 | C6-MDNNN-H15 | 63mm | 100mm | 138mm | DN__43_ | **TE1214348115N10** | Price |

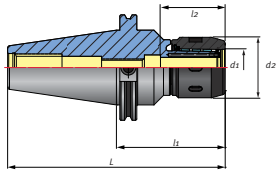
| Mount - C6, MVLN | | | | | | | |
|---|---|---|---|---|---|---|---|
| Model No. | Description | Nose Dia. | Projection length | OAL | Insert | Order No. | Price |
| 143.479.16L.075 | C6-MVLNL-EX16 | 63mm | 75mm | 113mm | VN__33_ | **TE1214347916L07** | Price |
| 143.479.16R.075 | C6-MVLNR-EX16 | 63mm | 75mm | 113mm | VN__33_ | **TE1214347916R07** | Price |

| Mount - C6, MWLN | | | | | | | |
|---|---|---|---|---|---|---|---|
| Model No. | Description | Nose Dia. | Projection length | OAL | Insert | Order No. | Price |
| 143.478.08L.065 | C6-MWLNL-DX08 | 63mm | 65mm | 103mm | WN__43_ | **TE1214347808L06** | Price |
| 143.478.08R.065 | C6-MWLNR-DX08 | 63mm | 65mm | 103mm | WN__43_ | **TE1214347808R06** | Price |

## CAT40 & CAT50 High Performance Milling Chucks

- Grips shank up to 5X tighter than ER40 holders
- Nut seals against the flange when properly tightened (prevents overtightening)
- CoolBLAST coolant-thru is standard on all milling chucks

New!





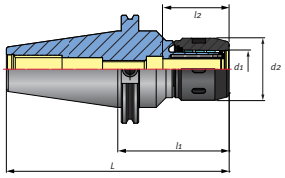

| Shank Size - CAT40 | | | | | | | |
|---|---|---|---|---|---|---|---|
| "L" (in.) | "L1" (in.) | "L2" ((in.) | Sleeve O.D (in.) | "D2" (in.) | Holding Power | Order No. | Price |
| 6.69 | 4 | 2.38 | 3/4 | 2.24 | 350 ft/lbs | **TE1223202G** | Price |
| 6.89 | 4.2 | 2.38 | 1-1/4 | 2.8 | 500 ft/lbs | **TE1223210G** | Price |

| Shank Size - CAT50 | | | | | | | |
|---|---|---|---|---|---|---|---|
| "L" (in.) | "L1" (in.) | "L2" ((in.) | Sleeve O.D (in.) | "D2" (in.) | Holding Power | Order No. | Price |
| 8 | 4 | 2.38 | 3/4 | 2.24 | 350 ft/lbs | **TE1223214G** | Price |
| 8.13 | 4.13 | 2.38 | 1-1/4 | 2.8 | 500 ft/lbs | **TE1223222G** | Price |

## CAT40 & CAT50 Dual Drive Milling Chucks

- One-piece design for Dual-contact spindles
- Grips shank up to 5X tighter than ER40 holders
- Nut seals against the flange when properly tightened (prevents overtightening)

New!






| Shank - CAT40 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Model No. | OAL (in.) | Gage Length (in.) | Dim. L1 (in.) | Dim. D1 (in.) | Nose Dia. (in.) | Order No. | Price |
| 43.463G.64.400 | 6.69 | 4.00 | 2.38 | .75 | 2.24 | **TE1273202G** | Price |
| 43.463G.72.420 | 6.89 | 4.20 | 2.38 | 1.25 | 2.80 | **TE1273210G** | Price |

| Shank - CAT50 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Model No. | OAL (in.) | Gage Length (in.) | Dim. L1 (in.) | Dim. D1 (in.) | Nose Dia. (in.) | Order No. | Price |
| 44.463G.64.400 | 8.00 | 4.00 | 2.38 | .75 | 2.24 | **TE1273214G** | Price |
| 44.463G.72.413 | 8.13 | 4.13 | 2.38 | 1.25 | 2.80 | **TE12472413G** | Price |

## Reduction Sleeves

- For inch and metric shanks
- T.I.R. only .0001”
- All surfaces precision ground for maximum accuracy

New!



| Sleeve OD (in.) - 3/4 | | |
|---|---|---|
| Size (in./mm) | Order No. | Price |
| 1/8 | **TE128412618** | Price |
| 3/16 | **TE1284126316** | Price |
| 1/4 | **TE1284126250** | Price |
| 17/64 | **TE12841261764** | Price |
| 5/16 | **TE1284126516** | Price |
| 3/8 | **TE128412638** | Price |
| 7/16 | **TE1284126716** | Price |
| 1/2 | **TE1284126500** | Price |
| 9/16 | **TE1284126916** | Price |
| 5/8 | **TE128412658** | Price |
| 11/32 | **TE12841261132** | Price |
| 25/64 | **TE12841262564** | Price |
| 15/32 | **TE12841261532** | Price |
| 37/64 | **TE12841263764** | Price |
| 6mm | **TE128412606** | Price |
| 7mm | **TE128412607** | Price |
| 8mm | **TE128412608** | Price |
| 10mm | **TE128412610** | Price |
| 11mm | **TE128412611** | Price |
| 10.5mm | **TE1284126105** | Price |
| 12mm | **TE128412612** | Price |
| 13mm | **TE128412613** | Price |

| Sleeve OD (in.) - 3/4 | | |
|---|---|---|
| Size (in./mm) | Order No. | Price |
| 14mm | **TE128412614** | Price |
| 16mm | **TE128412616** | Price |

| Sleeve OD (in.) - 1-1/4 | | |
|---|---|---|
| Size (in./mm) | Order No. | Price |
| 1/8 | **TE1284127125** | Price |
| 3/16 | **TE1284127316** | Price |
| 1/4 | **TE1284127250** | Price |
| 5/16 | **TE1284127516** | Price |
| 3/8 | **TE128412738** | Price |
| 7/16 | **TE1284127716** | Price |
| 1/2 | **TE1284127500** | Price |
| 9/16 | **TE1284127916** | Price |
| 5/8 | **TE128412758** | Price |
| 11/16 | **TE12841271116** | Price |
| 23/32 | **TE12841272332** | Price |
| 3/4 | **TE128412734** | Price |
| 13/16 | **TE12841271316** | Price |
| 7/8 | **TE128412778** | Price |
| 1.0 | **TE12841271** | Price |
| 8mm | **TE128412708** | Price |
| 10mm | **TE128412710** | Price |
| 12mm | **TE128412712** | Price |
| 14mm | **TE128412714** | Price |
| 15mm | **TE128412715** | Price |
| 16mm | **TE128412716** | Price |
| 18mm | **TE128412718** | Price |
| 20mm | **TE128412720** | Price |
| 21mm | **TE128412721** | Price |
| 23mm | **TE128412723** | Price |
| 25mm | **TE128412725** | Price |

## HAIMER Power Collet Chucks

- Chuck body fine balanced G2.5, 25,000 1 / Min
- All functional surfaces fine-machined
- Taper tolerance AT3
- Coolant Supply Form ADB
- High runout accuracy .003mm at 3xD with Haimer Power Collets
- Also for Standard ER ISO 15488 / DIN 6499
- Note: When using standard ER collet gage length will get longer



| Mount - CAT40 | | | |
|---|---|---|---|
| Collet Style | Gage Length (in.) | Order No. | Price |
| ER16 | 2.76 | **HA7040720163** | Price |
| ER16 | 3.94 | **HA7040721163** | Price |
| ER16 | 6.3 | **HA7040722163** | Price |
| ER25 | 2.76 | **HA7040720253** | Price |
| ER25 | 3.94 | **HA7040721253** | Price |
| ER25 | 6.3 | **HA7040722253** | Price |
| ER32 | 2.76 | **HA7040720323** | Price |
| ER32 | 3.94 | **HA7040721323** | Price |
| ER32 | 6.3 | **HA7040722323** | Price |

| Mount - CAT50 | | | |
|---|---|---|---|
| Collet Style | Gage Length (in.) | Order No. | Price |
| ER16 | 2.76 | **HA7050720163** | Price |
| ER16 | 3.94 | **HA7050721163** | Price |
| ER16 | 5.12 | **HA7050724163** | Price |
| ER16 | 6.3 | **HA7050722163** | Price |
| ER25 | 2.76 | **HA7050720253** | Price |
| ER25 | 3.94 | **HA7050721253** | Price |

| Mount - CAT50 | | | |
|---|---|---|---|
| Collet Style | Gage Length (in.) | Order No. | Price |
| ER25 | 5.12 | **HA7050724253** | Price |
| ER25 | 6.3 | **HA7050722253** | Price |
| ER32 | 2.76 | **HA7050720323** | Price |
| ER32 | 3.94 | **HA7050721323** | Price |
| ER32 | 5.12 | **HA7050724323** | Price |
| ER32 | 6.3 | **HA7050722323** | Price |

| Mount - HSK-A63 | | | |
|---|---|---|---|
| Collet Style | Gage Length (in.) | Order No. | Price |
| ER16 | 3.94 | **HA70A63020163** | Price |
| ER25 | 3.94 | **HA70A63020253** | Price |
| ER32 | 3.94 | **HA70A63020323** | Price |

## HAIMER Power Collets for Power Chucks

- High runout accuracy .00012” at 3xD
- Superior clamping strength
- Fits Haimer Power Collet Chucks
- For cylindrical shanks with tolerance h10



| Collet Style - ER16 | | |
|---|---|---|
| ID/Square (in./mm) | Order No. | Price |
| 1/4 | **HA708116314Z** | Price |
| 1/8 | **HA708116318Z** | Price |
| 10mm | **HA708116310** | Price |
| 2mm | **HA708116302** | Price |
| 3/16 | **HA7081163316Z** | Price |
| 3/8 | **HA708116338Z** | Price |
| 3mm | **HA708116303** | Price |
| 4.5mm | **HA7081163045** | Price |
| 4mm | **HA708116304** | Price |
| 5/16 | **HA7081163516Z** | Price |
| 5mm | **HA708116305** | Price |
| 6mm | **HA708116306** | Price |
| 8mm | **HA708116308** | Price |

| Collet Style - ER25 | | |
|---|---|---|
| ID/Square (in./mm) | Order No. | Price |
| 1/2 | **HA708125312Z** | 189.00 |
| 1/4 | **HA708125314Z** | 189.00 |
| 1/8 | **HA708125318Z** | 189.00 |
| 10mm | **HA708125310** | 189.00 |
| 12mm | **HA708125312** | 189.00 |
| 14mm | **HA708125314** | 189.00 |
| 16mm | **HA708125316** | 189.00 |
| 2mm | **HA708125302** | 189.00 |
| 3/16 | **HA7081253316Z** | 189.00 |
| 3/8 | **HA708125338Z** | 189.00 |
| 3mm | **HA708125303** | 189.00 |
| 4mm | **HA708125304** | 189.00 |
| 5/16 | **HA7081253516Z** | 189.00 |
| 5/8 | **HA708125358Z** | 189.00 |
| 5mm | **HA708125305** | 189.00 |
| 6mm | **HA708125306** | 189.00 |

| Collet Style - ER25 | | |
|---|---|---|
| ID/Square (in./mm) | Order No. | Price |
| 7/16 | **HA7081253716Z** | 189.00 |
| 8mm | **HA708125308** | 189.00 |
| 9/16 | **HA7081253916Z** | 189.00 |

| Collet Style - ER32 | | |
|---|---|---|
| ID/Square (in./mm) | Order No. | Price |
| 1/2 | **HA708132312Z** | Price |
| 1/4 | **HA708132314Z** | Price |
| 1/8 | **HA708132318Z** | Price |
| 10mm | **HA708132310** | Price |
| 12mm | **HA708132312** | Price |
| 14mm | **HA708132314** | Price |
| 16mm | **HA708132316** | Price |
| 18mm | **HA708132318** | Price |
| 20mm | **HA708132320** | Price |
| 2mm | **HA708132302** | Price |
| 3/16 | **HA7081323316Z** | Price |
| 3/4 | **HA708132334Z** | Price |
| 3/8 | **HA708132338Z** | Price |
| 3mm | **HA708132303** | Price |
| 4mm | **HA708132304** | Price |
| 5/16 | **HA7081323516Z** | Price |
| 5/8 | **HA708132358Z** | Price |
| 5mm | **HA708132305** | Price |
| 6mm | **HA708132306** | Price |
| 7/16 | **HA7081323716Z** | Price |
| 8mm | **HA708132308** | Price |
| 9/16 | **HA7081323916Z** | Price |

## HAIMER Power Collets with Safe-Lock

| Collet Style - ER25 | | |
|---|---|---|
| ID/Square (in./mm) | Order No. | Price |
| 1/2 | **HA708125312Z7** | Price |
| 10mm | **HA7081253107** | Price |
| 12mm | **HA7081253127** | Price |
| 14mm | **HA7081253147** | Price |
| 16mm | **HA7081253167** | Price |
| 3/8 | **HA708125338Z7** | Price |
| 5/8 | **HA708125358Z7** | Price |
| 6mm | **HA7081253067** | Price |
| 8mm | **HA7081253087** | Price |

| Collet Style - ER32 | | |
|---|---|---|
| ID/Square (in./mm) | Order No. | Price |
| 1/2 | **HA708132312Z7** | Price |
| 10mm | **HA7081323107** | Price |
| 12mm | **HA7081323127** | Price |
| 14mm | **HA7081323147** | Price |



| Collet Style - ER32 | | |
|---|---|---|
| ID/Square (in./mm) | Order No. | Price |
| 16mm | **HA7081323167** | Price |
| 18mm | **HA7081323187** | Price |
| 20mm | **HA7081323207** | Price |
| 3/4 | **HA708132334Z7** | Price |
| 3/8 | **HA708132338Z7** | Price |
| 5/8 | **HA708132358Z7** | Price |
| 6mm | **HA7081323067** | Price |
| 8mm | **HA7081323087** | Price |

## HAIMER Power Collet Sets

- 3-micron accuracy
- Superior Clamping Strength
- Fits HAIMER Power collet chucks



| Collet Style | Size Range | Order No. | Price |
|---|---|---|---|
| ER16 | 2mm - 10mm | **HA708116300** | Price |
| ER25 | 2mm - 16mm | **HA708125300** | Price |
| ER32 | 2mm - 20mm | **HA708132300** | Price |

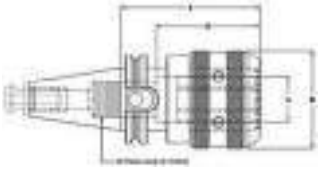
## HAIMER Power Chuck Wrenches



| For Collet Type | Order No. | Price |
|---|---|---|
| ER16 | **HA708465016** | Price |
| ER25 | **HA708465025** | Price |
| ER32 | **HA708465032** | Price |

## PARLEC V-Flange Power Milling Chucks

- Constructed of alloy steel for long, durable service life
- Hardened to RC 56-60 for long service life
- Shiny taper with black oxide finish for the best combination of accuracy and durability
- End mill socket T.I.R.≤.0002”
- Through-spindle coolant capability
- Parsymmetry™ design for high-speed operation
- Flange-entry coolant is available on request





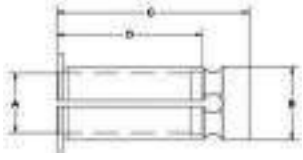
| Shank Size - CAT40 | | | | | |
|---|---|---|---|---|---|
| A (in.) | Nose-B (in.) | Projection-C (in.) | Bushing Used | Order No. | Price |
| 3/4 | 2.1900 | 2.4800 | 75MC | **GM97C4075MC2** | Price |
| 3/4 | 2.1900 | 3.7100 | 75MC | **GM97C4075MC3** | Price |
| 1-1/4 | 2-3/4 | 4.1300 | 12MC | **GM97C4012MC4** | Price |

| Shank Size - CAT50 | | | | | |
|---|---|---|---|---|---|
| A (in.) | Nose-B (in.) | Projection-C (in.) | Bushing Used | Order No. | Price |
| 1-1/4 | 2-3/4 | 4.1300 | 12MC | **GM97C5012MC4** | Price |
| 1-1/4 | 2-3/4 | 6.0000 | 12MC | **GM97C5012MC6** | Price |

## PARLEC Power Milling Chuck Bushings



12MCRB-100



| Sleeve - 12MC | | | | |
|---|---|---|---|---|
| Sleeve ID-A (in.) | Sleeve OD-B (in.) | C (in.) | Order No. | Price |
| 1/8 | 1-1/4 | 2-3/4 | **GM9712MCRB188** | Price |
| 1/4 | 1-1/4 | 2-3/4 | **GM9712MCRB250** | Price |
| 5/16 | 1-1/4 | 2-3/4 | **GM9712MCRB313** | Price |
| 3/8 | 1-1/4 | 2-3/4 | **GM9712MCRB375** | Price |
| 1/2 | 1-1/4 | 2-3/4 | **GM9712MCRB500** | Price |
| 9/16 | 1-1/4 | 2-3/4 | **GM9712MCRB563** | Price |
| 5/8 | 1-1/4 | 2-3/4 | **GM9712MCRB625** | Price |
| 3/4 | 1-1/4 | 2-3/4 | **GM9712MCRB750** | Price |
| 7/8 | 1-1/4 | 2-3/4 | **GM9712MCRB875** | Price |
| 1 | 1-1/4 | 2-3/4 | **GM9712MCRB100** | Price |

| Sleeve - 75MC | | | | |
|---|---|---|---|---|
| Sleeve ID-A (in.) | Sleeve OD-B (in.) | C (in.) | Order No. | Price |
| 3/16 | 3/4 | 2 | **GM9775MCRB188** | Price |
| 1/4 | 3/4 | 2 | **GM9775MCRB250** | Price |
| 5/16 | 3/4 | 2 | **GM9775MCRB313** | Price |
| 3/8 | 3/4 | 2 | **GM9775MCRB375** | Price |
| 1/2 | 3/4 | 2 | **GM9775MCRB500** | Price |
| 9/16 | 3/4 | 2 | **GM9775MCRB563** | Price |
| 5/8 | 3/4 | 2 | **GM9775MCRB625** | Price |

## SCHUNK Milling Chuck Holders

**TENDO Benifits:**

- Maximum true running and repeat accuracy greater than 0.003 mm
- Excellent vibration damping
- Improved surface quality
- Prevents chipping of tool cutting edge
- Versatile clamping range thanks to intermediate sleeves
- Accurate length presetting axially or radially
- Easy handling - without peripheral equipment tools are changed within seconds
- Precision-balanced as standard G 2.5 / 25000 1/min.

**SINO Benefits:**

- Universal toolholders is designed for multi-purpose use based on the expansion technology
- Vibration-damping design
- Micro-blowouts at the lip of the tool are reduced to a minimum.
- Improved surface quality of the workpiece
- Flexible clamping range due to use of intermediate sleeves
- Concentricity 0.005 mm measured in the clamping bore
- Precision-balanced as standard G 6.3 / 15000 1/min

Sino





Tendo

| Type - SINO-R, Universal Holder | | | | | |
|---|---|---|---|---|---|
| Shank Size (in.) | Sleeve (in.) | Nose Dia. (in.) | Projection (in.) | Order No. | Price |
| CAT40 | 1/2 | 1.54 | 73.1mm | **HF80209612** | Price |
| CAT40 | 3/4 | 1.91 | 78mm | **HF80209614** | Price |
| CAT40 | 1 | 1.91 | 100mm | **HF80209613** | Price |
| CAT40 | 1-1/4 | 2.5600 | 115mm | **HF80209615** | Price |
| CAT50 | 3/4 | 1.91 | 95mm | **HF80209634** | Price |
| CAT50 | 1 | 1.91 | 95mm | **HF80209635** | Price |
| CAT50 | 1-1/4 | 2.5600 | 90mm | **HF80209636** | Price |

| Type - TENDO-EC, Hydraulic Holder | | | | | |
|---|---|---|---|---|---|
| Shank Size (in.) | Sleeve (in.) | Nose Dia. (in.) | Projection (in.) | Order No. | Price |
| BT40 | 12mm | 1.65 | 58mm | **HF80206434** | Price |
| BT40 | 20mm | 1.94 | 72.5mm | **HF80206436** | Price |
| BT50 | 12mm | 1.65 | 69mm | **HF80206444** | Price |
| BT50 | 20mm | 1.94 | 83.5mm | **HF80206446** | Price |
| BT50 | 32mm | 2.8300 | 90mm | **HF80206448** | Price |
| CAT40 | 3/4 | 1.94 | 64.5mm | **HF80206466** | Price |
| CAT50 | 1-1/4 | 2.8400 | 81mm | **HF80203947** | Price |
| CAT40 | 20mm | 1.94 | 64.5mm | **HF80206486** | Price |
| CAT50 | 32mm | 2.8400 | 81mm | **HF80203988** | Price |

## SCHUNK Milling Chuck Sleeves

**Sealed Intermediate Sleeves:**

- For internal coolant supply
- Closed Collar
- Coolant proof up to Max. 80 bar

**Slotted Intermediate Sleeves:**

- Peripheral Cooling
- Collar Slotted
- Not coolant proof

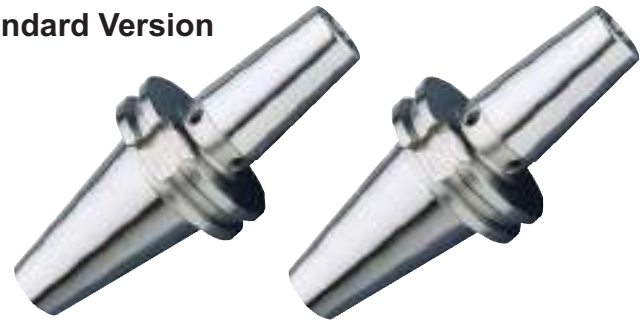




| Type - Sealed | | | | |
|---|---|---|---|---|
| Model No. | Sleeve ID (in./mm) | Sleeve OD (in.) | Order No. | Price |
| 224386 | 1/8 | 3/4 | **HF80224386** | Price |
| 224387 | 3/16 | 3/4 | **HF80224387** | Price |
| 224388 | 1/4 | 3/4 | **HF80224388** | Price |
| 224389 | 5/16 | 3/4 | **HF80224389** | Price |
| 224390 | 3/8 | 3/4 | **HF80224390** | Price |
| 224391 | 7/16 | 3/4 | **HF80224391** | Price |
| 224392 | 1/2 | 3/4 | **HF80224392** | Price |
| 224393 | 9/16 | 3/4 | **HF80224393** | Price |
| 224394 | 5/8 | 3/4 | **HF80224394** | Price |
| 224395 | 3mm | 3/4 | **HF80224395** | Price |
| 224396 | 4mm | 3/4 | **HF80224396** | Price |
| 224397 | 5mm | 3/4 | **HF80224397** | Price |
| 224398 | 6mm | 3/4 | **HF80224398** | Price |
| 224399 | 8mm | 3/4 | **HF80224399** | Price |
| 224400 | 10mm | 3/4 | **HF80224400** | Price |
| 224401 | 12mm | 3/4 | **HF80224401** | Price |
| 224402 | 14mm | 3/4 | **HF80224402** | Price |
| 224404 | 1/4 | 1-1/4 | **HF80224404** | Price |
| 224405 | 5/16 | 1-1/4 | **HF80224405** | Price |
| 224406 | 3/8 | 1-1/4 | **HF80224406** | Price |
| 224407 | 7/16 | 1-1/4 | **HF80224407** | Price |
| 224408 | 1/2 | 1-1/4 | **HF80224408** | Price |
| 224409 | 9/16 | 1-1/4 | **HF80224409** | Price |
| 224410 | 5/8 | 1-1/4 | **HF80224410** | Price |
| 224411 | 11/16 | 1-1/4 | **HF80224411** | Price |
| 224412 | 3/4 | 1-1/4 | **HF80224412** | Price |
| 224414 | 7/8 | 1-1/4 | **HF80224414** | Price |
| 224415 | 15/16 | 1-1/4 | **HF80224415** | Price |
| 224416 | 1 | 1-1/4 | **HF80224416** | Price |
| 224421 | 8mm | 1-1/4 | **HF80224421** | Price |
| 224422 | 10mm | 1-1/4 | **HF80224422** | Price |
| 224423 | 12mm | 1-1/4 | **HF80224423** | Price |
| 224424 | 14mm | 1-1/4 | **HF80224424** | Price |
| 224425 | 16mm | 1-1/4 | **HF80224425** | Price |
| 224426 | 18mm | 1-1/4 | **HF80224426** | Price |
| 224427 | 20mm | 1-1/4 | **HF80224427** | Price |
| 224428 | 25mm | 1-1/4 | **HF80224428** | Price |

| Type - Slotted | | | | |
|---|---|---|---|---|
| Model No. | Sleeve ID (in./mm) | Sleeve OD (in.) | Order No. | Price |
| 217960 | 1/8 | 3/4 | **HF80217960** | Price |
| 217961 | 3/16 | 3/4 | **HF80217961** | Price |
| 217962 | 1/4 | 3/4 | **HF80217962** | Price |
| 217963 | 5/16 | 3/4 | **HF80217963** | Price |
| 217964 | 3/8 | 3/4 | **HF80217964** | Price |
| 217965 | 7/16 | 3/4 | **HF80217965** | Price |
| 217966 | 1/2 | 3/4 | **HF80217966** | Price |
| 217967 | 9/16 | 3/4 | **HF80217967** | Price |
| 217968 | 5/8 | 3/4 | **HF80217968** | Price |
| 217969 | 3mm | 3/4 | **HF80217969** | Price |
| 217970 | 4mm | 3/4 | **HF80217970** | Price |
| 217972 | 6mm | 3/4 | **HF80217972** | Price |
| 217973 | 8mm | 3/4 | **HF80217973** | Price |
| 217974 | 10mm | 3/4 | **HF80217974** | Price |
| 217975 | 12mm | 3/4 | **HF80217975** | Price |
| 217976 | 14mm | 3/4 | **HF80217976** | Price |
| 217980 | 1/4 | 1-1/4 | **HF80217980** | Price |
| 217981 | 5/16 | 1-1/4 | **HF80217981** | Price |
| 217982 | 3/8 | 1-1/4 | **HF80217982** | Price |
| 217984 | 1/2 | 1-1/4 | **HF80217984** | Price |
| 217985 | 9/16 | 1-1/4 | **HF80217985** | Price |
| 217986 | 5/8 | 1-1/4 | **HF80217986** | Price |
| 217987 | 11/16 | 1-1/4 | **HF80217987** | Price |
| 217988 | 3/4 | 1-1/4 | **HF80217988** | Price |
| 217990 | 7/8 | 1-1/4 | **HF80217990** | Price |
| 217992 | 1 | 1-1/4 | **HF80217992** | Price |
| 218010 | 20mm | 1-1/4 | **HF80218010** | Price |
| 218011 | 25mm | 1-1/4 | **HF80218011** | Price |

# HAIMER CAT40, CAT50 Shrink Chucks - Standard Version



- Shrink fit chuck suitable to all kind of shrink fit units
- Fine balanced to G2.5 at 25,000 RPM
- Certified AT3 Taper
- High runout accuracy 3µm
- Heat resistant hot-working steel
- Hardened 54-2 HRC
- For HSS and solid carbide tools
- Shank tolerance h6
- With threaded holes in order to balance with balancing screws
- Cool Jet coolant bores that can be sealed included
- Made in Germany

| Shank - CAT40 | | | |
|---|---|---|---|
| Bore Dia. (in./mm) | Gage Length (in./mm) | Order No. | Price |
| 1/8 | 3.15 | **HA714084018Z** | Price |
| 3/16 | 3.15 | **HA7140840316Z** | Price |
| 1/4 | 3.15 | **HA714084014Z4** | Price |
| 1/4 | 5.12 | **HA714084414Z4** | Price |
| 1/4 | 6.3 | **HA714084214Z4** | Price |
| 5/16 | 3.15 | **HA7140840516Z4** | Price |
| 5/16 | 5.12 | **HA7140844516Z4** | Price |
| 5/16 | 6.3 | **HA7140842516Z4** | Price |
| 3/8 | 3.15 | **HA714084038Z4** | Price |
| 3/8 | 5.12 | **HA714084438Z4** | Price |
| 3/8 | 6.3 | **HA714084238Z4** | Price |
| 7/16 | 3.15 | **HA7140840716Z4** | Price |
| 7/16 | 5.12 | **HA7140844716Z4** | Price |
| 7/16 | 6.3 | **HA7140842716Z4** | Price |
| 1/2 | 3.15 | **HA714084012Z4** | Price |
| 1/2 | 5.12 | **HA714084412Z4** | Price |
| 1/2 | 5.12 | **HA714084412Z36** | Price |
| 1/2 | 6.3 | **HA714084212Z4** | Price |
| 5/8 | 3.15 | **HA714084058Z4** | Price |
| 5/8 | 5.12 | **HA714084458Z4** | Price |
| 5/8 | 6.3 | **HA714084258Z4** | Price |
| 3/4 | 3.15 | **HA714084034Z4** | Price |
| 3/4 | 5.12 | **HA714084434Z4** | Price |
| 3/4 | 5.12 | **HA714084434Z36** | Price |
| 3/4 | 6.3 | **HA714084234Z4** | Price |
| 7/8 | 3.15 | **HA714084078Z4** | Price |
| 7/8 | 5.12 | **HA714084478Z4** | Price |
| 7/8 | 6.3 | **HA714084278Z4** | Price |
| 1 | 3.94 | **HA71408401Z4** | Price |
| 1 | 5.12 | **HA71408441Z4** | Price |
| 1 | 6.3 | **HA71408421Z4** | Price |
| 1-1/4 | 5.12 | **HA7140844114Z4** | Price |
| 1-1/4 | 6.3 | **HA7140842114Z4** | Price |
| 1-1/4 | 3.94 | **HA7140840114Z4** | Price |
| 3mm | 80mm | **HA714084003** | Price |
| 4mm | 80mm | **HA714084004** | Price |
| 5mm | 80mm | **HA714084005** | Price |
| 6mm | 80mm | **HA7140840064** | Price |
| 6mm | 130mm | **HA7140844064** | Price |
| 6mm | 160mm | **HA7140842064** | Price |
| 8mm | 80mm | **HA7140840084** | Price |
| 8mm | 130mm | **HA7140844084** | Price |
| 8mm | 160mm | **HA7140842084** | Price |
| 10mm | 80mm | **HA7140840104** | Price |
| 10mm | 160mm | **HA7140842104** | Price |
| 12mm | 80mm | **HA7140840124** | Price |
| 12mm | 130mm | **HA7140844124** | Price |
| 12mm | 160mm | **HA7140842124** | Price |
| 14mm | 80mm | **HA7140840144** | Price |
| 14mm | 130mm | **HA7140844144** | Price |
| 14mm | 160mm | **HA7140842144** | Price |
| 16mm | 80mm | **HA7140840164** | Price |

| Shank - CAT40 | | | |
|---|---|---|---|
| Bore Dia. (in./mm) | Gage Length (in./mm) | Order No. | Price |
| 16mm | 130mm | **HA7140844164** | Price |
| 16mm | 160mm | **HA7140842164** | Price |
| 20mm | 80mm | **HA7140840204** | Price |
| 20mm | 130mm | **HA7140844204** | Price |
| 20mm | 160mm | **HA7140842204** | Price |
| 25mm | 100mm | **HA7140840254** | Price |
| 25mm | 130mm | **HA7140844254** | Price |
| 25mm | 160mm | **HA7140842254** | Price |
| 32mm | 100mm | **HA7140840324** | Price |
| 32mm | 130mm | **HA7140844324** | Price |

| Shank - CAT50 | | | |
|---|---|---|---|
| Bore Dia. (in./mm) | Gage Length (in./mm) | Order No. | Price |
| 1/4 | 3.15 | **HA715084014Z4** | Price |
| 1/4 | 5.12 | **HA715084414Z4** | Price |
| 1/4 | 6.3 | **HA715084214Z4** | Price |
| 5/16 | 3.15 | **HA7150840516Z3** | Price |
| 5/16 | 3.15 | **HA7150840516Z26** | Price |
| 5/16 | 3.15 | **HA7150840516Z4** | Price |
| 5/16 | 5.12 | **HA7150844516Z4** | Price |
| 5/16 | 6.3 | **HA7150842516Z4** | Price |
| 3/8 | 3.15 | **HA715084038Z4** | Price |
| 3/8 | 3.15 | **HA715084038Z3** | Price |
| 3/8 | 3.15 | **HA715084038Z36** | Price |
| 3/8 | 5.12 | **HA715084438Z4** | Price |
| 3/8 | 6.3 | **HA715084238Z4** | Price |
| 7/16 | 3.15 | **HA7150840716Z4** | Price |
| 7/16 | 5.12 | **HA7150844716Z4** | Price |
| 7/16 | 6.3 | **HA7150842716Z4** | Price |
| 1/2 | 3.15 | **HA715084012Z4** | Price |
| 1/2 | 5.12 | **HA715084412Z4** | Price |
| 1/2 | 6.3 | **HA715084212Z4** | Price |
| 5/8 | 3.15 | **HA715084058Z4** | Price |
| 5/8 | 3.15 | **HA715084058Z3** | Price |
| 5/8 | 3.15 | **HA715084058Z36** | Price |
| 5/8 | 3.15 | **HA715084058Z37** | Price |
| 5/8 | 5.12 | **HA715084458Z4** | Price |
| 5/8 | 6.3 | **HA715084258Z4** | Price |
| 3/4 | 3.15 | **HA715084034Z26** | Price |
| 3/4 | 3.15 | **HA715084034Z4** | Price |
| 3/4 | 5.12 | **HA715084434Z4** | Price |
| 3/4 | 6.3 | **HA715084234Z4** | Price |
| 7/8 | 5.12 | **HA715084478Z4** | Price |
| 7/8 | 6.3 | **HA715084278Z4** | Price |
| 1 | 3.94 | **HA71508401Z4** | Price |
| 1 | 5.12 | **HA71508441Z4** | Price |
| 1 | 6.3 | **HA71508421Z4** | Price |
| 1-1/4 | 3.54 | **HA7150850114Z67** | Price |
| 1-1/4 | 3.54 | **HA7150850114Z6** | Price |
| 1-1/4 | 3.94 | **HA7150840114Z4** | Price |
| 1-1/4 | 5.12 | **HA7150844114Z4** | Price |
| 1-1/4 | 6.3 | **HA7150842114Z4** | Price |
| 1-1/2 | 3.94 | **HA7150850112Z6** | Price |
| 1-1/2 | 3.94 | **HA7150850112Z67** | Price |

**F.O.B. Factory**

## HAIMER CAT40, CAT50 Power Shrink Chucks

The Power Shrink Chuck is the shrink fit chuck for highest machining capacity in high-speed manufacturing. The optimized design combines high rigidity with dampening vibrations, therefore giving more protection to machines, spindles and tools.

- Shrink fit chuck suitable to all inductive shrink fit units
- Precesion AT3 Tolerance Shank
- Balanced to G2.5 at 25,000 RPM or U



| Shank - CAT40 | | | |
|---|---|---|---|
| Bore Dia. (in./mm) | Gage Length (in./mm) | Order No. | Price |
| 1/4 | 2.56 | **HA714084514Z3** | Price |
| 1/4 | 2.56 | **HA714084514Z36** | Price |
| 1/4 | 5.12 | **HA714084414Z3** | Price |
| 1/4 | 6.3 | **HA714084214Z3** | Price |
| 5/16 | 2.56 | **HA7140845516Z3** | Price |
| 5/16 | 5.12 | **HA7140844516Z3** | Price |
| 5/16 | 6.3 | **HA7140842516Z3** | Price |
| 3/8 | 2.56 | **HA714084538Z3** | Price |
| 3/8 | 2.56 | **HA714084538Z36** | Price |
| 3/8 | 5.12 | **HA71408438Z3** | Price |
| 3/8 | 6.3 | **HA714084238Z36** | Price |
| 3/8 | 6.3 | **HA714084238Z3** | Price |
| 1/2 | 2.56 | **HA714084512Z3** | Price |
| 1/2 | 2.56 | **HA714084512Z37** | Price |
| 1/2 | 2.56 | **HA714084512Z36** | Price |
| 1/2 | 3.15 | **HA714084012Z26** | Price |
| 1/2 | 5.12 | **HA714084412Z3** | Price |
| 1/2 | 5.12 | **HA714084412Z37** | Price |
| 1/2 | 6.3 | **HA714084212Z37** | Price |
| 1/2 | 6.3 | **HA71408212Z3** | Price |
| 1/2 | 6.3 | **HA714084212Z26** | Price |
| 5/8 | 2.56 | **HA714084558Z37** | Price |
| 5/8 | 2.56 | **HA714084558Z3** | Price |
| 5/8 | 5.12 | **HA714084458Z37** | Price |
| 5/8 | 5.12 | **HA71408458Z3** | Price |
| 5/8 | 6.3 | **HA714084258Z37** | Price |
| 3/4 | 2.56 | **HA714084534Z37** | Price |
| 5/8 | 6.3 | **HA7140842583** | Price |
| 3/4 | 2.56 | **HA71408453Z3** | Price |
| 3/4 | 2.56 | **HA714084534Z36** | Price |
| 3/4 | 5.12 | **HA714084434Z37** | Price |
| 3/4 | 5.12 | **HA714084434Z3** | Price |
| 3/4 | 6.3 | **HA714084234Z36** | Price |
| 3/4 | 6.3 | **HA714084234Z37** | Price |
| 3/4 | 6.3 | **HA71408423Z3** | Price |
| 1 | 2.56 | **HA71408451Z37** | Price |
| 6mm | 65mm | **HA7140845063** | Price |
| 6mm | 130mm | **HA7140844063** | Price |
| 6mm | 160mm | **HA7140842063** | Price |
| 8mm | 65mm | **HA7140845083** | Price |
| 8mm | 130mm | **HA7140844083** | Price |
| 10mm | 65mm | **HA7140845103** | Price |
| 10mm | 130mm | **HA7140844103** | Price |
| 8mm | 160mm | **HA7140842083** | Price |
| 10mm | 130mm | **HA7140844104** | Price |
| 10mm | 160mm | **HA7140842103** | Price |
| 12mm | 65mm | **HA7140845123** | Price |
| 12mm | 65mm | **HA71408451237** | Price |
| 12mm | 130mm | **HA7140844123** | Price |
| 12mm | 130mm | **HA71408441237** | Price |
| 12mm | 160mm | **HA71408421237** | Price |
| 12mm | 160mm | **HA7140842123** | Price |
| 16mm | 65mm | **HA7140845163** | Price |
| 16mm | 65mm | **HA71408451637** | Price |
| 16mm | 130mm | **HA71408441637** | Price |
| 16mm | 130mm | **HA7140844163** | Price |
| 16mm | 160mm | **HA71408421637** | Price |
| 16mm | 160mm | **HA7140842163** | Price |
| 20mm | 65mm | **HA71408452037** | Price |
| 20mm | 65mm | **HA7140845203** | Price |
| 20mm | 130mm | **HA71408442037** | Price |
| 20mm | 130mm | **HA7140844203** | Price |

| Shank - CAT40 | | | |
|---|---|---|---|
| Bore Dia. (in./mm) | Gage Length (in./mm) | Order No. | Price |
| 20mm | 160mm | **HA7140842203** | Price |
| 20mm | 160mm | **HA71408422037** | Price |
| 25mm | 75mm | **HA71408452537** | Price |
| 25mm | 75mm | **HA7140845253** | Price |

| Shank - CAT50 | | | |
|---|---|---|---|
| Bore Dia. (in./mm) | Gage Length (in./mm) | Order No. | Price |
| 3/4 | 7.87 | **HA715084634Z3** | Price |
| 1/4 | 3.15 | **HA715084014Z26** | Price |
| 1/4 | 3.15 | **HA715084014Z3** | Price |
| 1/4 | 3.15 | **HA715084014Z36** | Price |
| 1/4 | 6.3 | **HA715084214Z3** | Price |
| 1/4 | 6.3 | **HA715084214Z36** | Price |
| 1/4 | 7.87 | **HA715084614Z3** | Price |
| 5/16 | 6.3 | **HA7150842516Z3** | Price |
| 3/8 | 6.3 | **HA715084238Z3** | Price |
| 3/8 | 7.87 | **HA715084638Z3** | Price |
| 1/2 | 3.15 | **HA715084012Z3** | Price |
| 1/2 | 3.15 | **HA715084012Z36** | Price |
| 1/2 | 3.15 | **HA715084012Z37** | Price |
| 1/2 | 6.3 | **HA715084212Z37** | Price |
| 1/2 | 6.3 | **HA715084212Z36** | Price |
| 1/2 | 6.3 | **HA715084212Z3** | Price |
| 1/2 | 7.87 | **HA715084612Z37** | Price |
| 1/2 | 7.87 | **HA715084612Z3** | Price |
| 1/2 | 7.87 | **HA715084612Z38** | Price |
| 1/2 | 7.87 | **HA715084612Z36** | Price |
| 5/8 | 6.3 | **HA715084258Z37** | Price |
| 5/8 | 6.3 | **HA715084258Z3** | Price |
| 5/8 | 6.3 | **HA715084238Z36** | Price |
| 5/8 | 6.3 | **HA715084258Z36** | Price |
| 5/8 | 7.87 | **HA715084658Z37** | Price |
| 5/8 | 7.87 | **HA715084658Z3** | Price |
| 3/4 | 3.15 | **HA715085058Z6** | Price |
| 3/4 | 3.15 | **HA715084034Z36** | Price |
| 3/4 | 3.15 | **HA715084034Z3** | Price |
| 3/4 | 3.15 | **HA715084034Z37** | Price |
| 3/4 | 3.15 | **HA715084034Z38** | Price |
| 3/4 | 3.35 | **HA715085034Z6** | Price |
| 3/4 | 3.35 | **HA715085034Z67** | Price |
| 3/4 | 6.3 | **HA715084234Z37** | Price |
| 3/4 | 6.3 | **HA715084234Z36** | Price |
| 3/4 | 6.3 | **HA715084234Z3** | Price |
| 3/4 | 6.3 | **HA715084234Z38** | Price |
| 3/4 | 7.87 | **HA715084634Z37** | Price |
| 3/4 | 7.87 | **HA715084634Z36** | Price |
| 1 | 3.54 | **HA71508501Z6** | Price |
| 1 | 3.54 | **HA71508501Z67** | Price |
| 1 | 3.94 | **HA71508401Z37** | Price |
| 1 | 3.94 | **HA71508401Z3** | Price |
| 1 | 6.3 | **HA71508421Z3** | Price |
| 1 | 6.3 | **HA71508421Z37** | Price |
| 1 | 7.87 | **HA715084613** | Price |
| 1 | 7.87 | **HA71508461Z37** | Price |
| 2 | 5.51 | **HA71508502Z6** | Price |
| 2 | 5.51 | **HA71508502Z67** | Price |
| 20mm | 85mm | **HA7150850206** | Price |

# Briney Shrink Fit Tool Holders

One of the original pioneers that introduced Shrink-Fit Tool Holders to the world now offer you choices. Whichever it may be, the original USA-ANSI Design Shrink-Fit Tool Holder or the newer European-DIN Design Shrink-Fit Tool Holder.

By Manufacturing both designs, Briney is instantly compatiable with our competitor's induction units and accessories.



**USA-ANSI Standard**

- 3° Nose angle
- Shorter bearing surface
- No back-up screw
- Superior holding force
- Consistent wall thickness throughout entire design
- **DIN Standard Available**

MADE IN THE USA

| Shank - CAT 40 | | | | |
|---|---|---|---|---|
| Bore Dia. (in./mm) | Gage Length (in.) | Standard | Order No. | Price |
| 1/8 | 2.750 | ANSI | **GM3012275** | Price |
| 1/8 | 4.000 | ANSI | **GM3012400** | Price |
| 3/16 | 2.950 | ANSI | **GM3018275** | Price |
| 3/16 | 4.000 | ANSI | **GM3018400** | Price |
| 3/16 | 6.000 | ANSI | **GM3018600** | Price |
| 1/4 | 2.750 | ANSI | **GM3025275** | Price |
| 1/4 | 4.000 | ANSI | **GM3025400** | Price |
| 1/4 | 6.000 | ANSI | **GM3025600** | Price |
| 5/16 | 2.750 | ANSI | **GM3031275** | Price |
| 5/16 | 4.000 | ANSI | **GM3031400** | Price |
| 5/16 | 6.000 | ANSI | **GM3031600** | Price |
| 3/8 | 2.750 | ANSI | **GM3038275** | Price |
| 3/8 | 4.000 | ANSI | **GM3038400** | Price |
| 3/8 | 6.000 | ANSI | **GM3038600** | Price |
| 1/2 | 2.750 | ANSI | **GM3050275** | Price |
| 1/2 | 4.000 | ANSI | **GM3050400** | Price |
| 1/2 | 6.000 | ANSI | **GM3050600** | Price |
| 5/8 | 2.750 | ANSI | **GM3062275** | Price |
| 5/8 | 4.000 | ANSI | **GM3062400** | Price |
| 5/8 | 6.000 | ANSI | **GM3062600** | Price |
| 3/4 | 2.750 | ANSI | **GM3075275** | Price |
| 3/4 | 4.000 | ANSI | **GM3075400** | Price |
| 3/4 | 6.000 | ANSI | **GM3075600** | Price |
| 7/8 | 2.750 | ANSI | **GM3088275** | Price |
| 7/8 | 6.000 | ANSI | **GM3088600** | Price |
| 1 | 2.750 | ANSI | **GM30100275** | Price |
| 1 | 4.000 | ANSI | **GM30100400** | Price |
| 1 | 6.000 | ANSI | **GM30100600** | Price |
| 1-1/4 | 2.750 | ANSI | **GM30125275** | Price |
| 1-1/4 | 4.000 | ANSI | **GM30125400** | Price |
| 1-1/4 | 6.000 | ANSI | **GM30125600** | Price |
| 6mm | 2.756 | ANSI | **GM306M70** | Price |
| 6mm | 3.937 | ANSI | **GM306M100** | Price |
| 8mm | 2.756 | ANSI | **GM308M70** | Price |
| 8mm | 3.937 | ANSI | **GM308M100** | Price |
| 10mm | 2.756 | ANSI | **GM3010M70** | Price |
| 10mm | 3.937 | ANSI | **GM3010M100** | Price |
| 12mm | 2.756 | ANSI | **GM3012M70** | Price |
| 12mm | 3.937 | ANSI | **GM3012M100** | Price |
| 14mm | 2.756 | ANSI | **GM3014M70** | Price |
| 14mm | 3.937 | ANSI | **GM3014M100** | Price |
| 16mm | 2.756 | ANSI | **GM3016M70** | Price |
| 16mm | 3.937 | ANSI | **GM3016M100** | Price |
| 18mm | 2.756 | ANSI | **GM3018M70** | Price |
| 18mm | 3.937 | ANSI | **GM3018M100** | Price |
| 20mm | 2.756 | ANSI | **GM3020M70** | Price |
| 20mm | 3.937 | ANSI | **GM3020M100** | Price |

| Shank - CAT 40 | | | | |
|---|---|---|---|---|
| Bore Dia. (in./mm) | Gage Length (in.) | Standard | Order No. | Price |
| 32mm | 2.756 | ANSI | **GM3032M70** | Price |
| 32mm | 3.937 | ANSI | **GM3032M100** | Price |

| Shank - CAT 50 | | | | |
|---|---|---|---|---|
| Bore Dia. (in./mm) | Gage Length (in.) | Standard | Order No. | Price |
| 1/8 | 3.000 | ANSI | **GM3012300** | Price |
| 1/8 | 4.000 | ANSI | **GM301240050** | Price |
| 3/16 | 3.000 | ANSI | **GM3018300** | Price |
| 3/16 | 4.000 | ANSI | **GM301840050** | Price |
| 3/16 | 5.000 | ANSI | **GM3018500** | Price |
| 3/16 | 7.000 | ANSI | **GM3018700** | Price |
| 1/4 | 3.000 | ANSI | **GM3025300** | Price |
| 1/4 | 4.000 | ANSI | **GM302540050** | Price |
| 1/4 | 5.000 | ANSI | **GM3025500** | Price |
| 1/4 | 7.000 | ANSI | **GM3025700** | Price |
| 5/16 | 3.000 | ANSI | **GM3031300** | Price |
| 3/8 | 4.000 | ANSI | **GM303840050** | Price |
| 3/8 | 5.000 | ANSI | **GM3038500** | Price |
| 3/8 | 7.000 | ANSI | **GM3038700** | Price |
| 1/2 | 3.000 | ANSI | **GM3050300** | Price |
| 1/2 | 4.000 | ANSI | **GM305040050** | Price |
| 1/2 | 5.000 | ANSI | **GM3050500** | Price |
| 1/2 | 7.000 | ANSI | **GM3050700** | Price |
| 5/8 | 3.000 | ANSI | **GM3062300** | Price |
| 5/8 | 4.000 | ANSI | **GM306240050** | Price |
| 5/8 | 5.000 | ANSI | **GM3062500** | Price |
| 5/8 | 7.000 | ANSI | **GM3062700** | Price |
| 3/4 | 3.000 | ANSI | **GM3075300** | Price |
| 3/4 | 4.000 | ANSI | **GM307540050** | Price |
| 3/4 | 5.000 | ANSI | **GM3075500** | Price |
| 3/4 | 7.000 | ANSI | **GM3075700** | Price |
| 7/8 | 3.000 | ANSI | **GM3088300** | Price |
| 7/8 | 7.000 | ANSI | **GM3088700** | Price |
| 1 | 3.000 | ANSI | **GM30100300** | Price |
| 1 | 4.000 | ANSI | **GM3010040050** | Price |
| 1 | 5.000 | ANSI | **GM30100500** | Price |
| 1 | 7.000 | ANSI | **GM30100700** | Price |
| 1-1/4 | 3.000 | ANSI | **GM30125300** | Price |
| 1-1/4 | 4.000 | ANSI | **GM3012540050** | Price |
| 1-1/4 | 5.000 | ANSI | **GM30125500** | Price |
| 1-1/4 | 7.000 | ANSI | **GM30125700** | Price |
| 1-1/2 | 3.000 | ANSI | **GM30150300** | Price |
| 1-1/2 | 4.000 | ANSI | **GM30150400** | Price |
| 1-1/2 | 5.000 | ANSI | **GM30150500** | Price |
| 1-1/2 | 7.000 | ANSI | **GM30150700** | Price |
| 6mm | 2.950 | ANSI | **GM306M75** | Price |
| 6mm | 3.937 | ANSI | **GM306M10050** | Price |
| 8mm | 2.950 | ANSI | **GM308M75** | Price |
| 8mm | 3.937 | ANSI | **GM308M10050** | Price |
| 10mm | 2.950 | ANSI | **GM3010M75** | Price |
| 10mm | 3.937 | ANSI | **GM3010M10050** | Price |
| 12mm | 2.950 | ANSI | **GM3012M75** | Price |
| 12mm | 3.937 | ANSI | **GM3012M10050** | Price |
| 14mm | 2.950 | ANSI | **GM3014M75** | Price |
| 14mm | 3.937 | ANSI | **GM3014M10050** | Price |
| 16mm | 2.750 | ANSI | **GM3016M75** | Price |
| 16mm | 3.937 | ANSI | **GM3016M10050** | Price |
| 18mm | 2.950 | ANSI | **GM3018M75** | Price |
| 18mm | 3.937 | ANSI | **GM3018M10050** | Price |
| 20mm | 2.950 | ANSI | **GM3020M75** | Price |
| 20mm | 3.937 | ANSI | **GM3020M10050** | Price |
| 25mm | 2.950 | ANSI | **GM3025M75** | Price |
| 25mm | 3.937 | ANSI | **GM3025M100** | Price |
| 32mm | 2.950 | ANSI | **GM3032M75** | Price |
| 32mm | 3.937 | ANSI | **GM3032M10050** | Price |

# PARLEC Shrink Fit Tool Holders

- Improved concentricity
- Improved balance design with no moving pieces
- Low Centrifugal Forces due to low holder mass
- For maximum gripping power with exceptional concentricity
- Concentricity of ≤.0001" with tool shrunk in holder
- Chip load distributed evenly along cutting edge of tool which results in longer tool life
- Constructed of double tempered Tool Steel for exceptional durability and cycle life. With proper use, toolholder life should exceed that of standard end mill holders
- Tool is gripped 360° along the entire length of bore resulting in an evenly distributed clamping force
- Short projections are possible because no mechanical clamping devices are used. This results in greater rigidity and resistance to bending
- Simple and fast to use. The total time elapsed to remove one cutting tool and insert another is less than 10 seconds
- Through-spindle coolant capability
- Coolant through holders require no special backup screws or seals. The interference fit between the ID of the tool holder and cutting tool shank forms the seal, preventing the coolant from flowing anywhere else except through the coolant grooves
- The use of Heat Shrink Tooling allows for greater speeds and feeds, better finishes, increased tool life, and increased productivity due to its High Speed Machining capability and simplicity of use



| Shank - BT40 | | | |
|---|---|---|---|
| Bore Diameter A (in./mm) | Gage Length B (in./mm) | Order No. | Price |
| 1 | 3.940 | **GM94BT40103949** | Price |
| 1 | 6.300 | **GM94BT40106309** | Price |
| 1/2 | 3.540 | **GM94BT40503549** | Price |
| 1/2 | 6.300 | **GM94BT40506309** | Price |
| 1/4 | 3.540 | **GM94BT40253549** | Price |
| 1/4 | 6.300 | **GM94BT40256309** | Price |
| 1/8 | 3.540 | **GM94BT40013549** | Price |
| 1-1/4 | 3.940 | **GM94BT40123949** | Price |
| 1-1/4 | 6.300 | **GM94BT40126309** | Price |
| 3/16 | 3.540 | **GM94BT40183549** | Price |
| 3/4 | 3.540 | **GM94BT40753549** | Price |
| 3/4 | 6.300 | **GM94BT40756309** | Price |
| 3/8 | 3.540 | **GM94BT40383549** | Price |
| 3/8 | 6.300 | **GM94BT40386309** | Price |
| 5/16 | 3.540 | **GM94BT40313549** | Price |
| 5/16 | 6.300 | **GM94BT40316309** | Price |
| 5/8 | 3.540 | **GM94BT40623549** | Price |
| 5/8 | 6.300 | **GM94BT40626309** | Price |
| 7/16 | 3.540 | **GM94BT40433549** | Price |
| 7/16 | 6.300 | **GM94BT40436309** | Price |
| 7/8 | 3.540 | **GM94BT40883549** | Price |
| 7/8 | 6.300 | **GM94BT40886309** | Price |

| Shank - CAT40 | | | |
|---|---|---|---|
| Bore Diameter A (in./mm) | Gage Length B (in./mm) | Order No. | Price |
| 1 | 3.940 | **GM94C40103949** | Price |
| 1 | 6.300 | **GM94C40106309** | Price |
| 1/2 | 3.150 | **GM94C40503159** | Price |
| 1/2 | 6.300 | **GM94C40506309** | Price |
| 1/4 | 3.150 | **GM94C40253159** | Price |
| 1/4 | 6.300 | **GM94C40256309** | Price |
| 1/8 | 3.150 | **GM94C40013159** | Price |
| 1-1/4 | 3.940 | **GM94C40123949** | Price |
| 1-1/4 | 6.300 | **GM94C40126309** | Price |
| 16mm | 80mm | **GM94C40M16809** | Price |
| 25mm | 100mm | **GM94C40M251009** | Price |
| 3/16 | 3.150 | **GM94C40183159** | Price |
| 3/4 | 3.150 | **GM94C40753159** | Price |
| 3/4 | 6.300 | **GM94C40756309** | Price |
| 3/8 | 3.150 | **GM94C40383159** | Price |
| 3/8 | 6.300 | **GM94C40386309** | Price |
| 32mm | 100mm | **GM94C40M321009** | Price |

| Shank - CAT40 | | | |
|---|---|---|---|
| Bore Diameter A (in./mm) | Gage Length B (in./mm) | Order No. | Price |
| 5/16 | 3.150 | **GM94C40313159** | Price |
| 5/16 | 6.300 | **GM94C40316309** | Price |
| 5/8 | 3.150 | **GM94C40623159** | Price |
| 5/8 | 6.300 | **GM94C40626309** | Price |
| 6mm | 80mm | **GM94C40M06809** | Price |

| Shank - CAT50 | | | |
|---|---|---|---|
| Bore Diameter A (in./mm) | Gage Length B (in./mm) | Order No. | Price |
| 1 | 3.940 | **GM94C50103949** | Price |
| 1 | 6.300 | **GM94C50106309** | Price |
| 1/2 | 3.150 | **GM94C50503159** | Price |
| 1/2 | 6.300 | **GM94C50506309** | Price |
| 1/4 | 3.150 | **GM94C50253159** | Price |
| 1/4 | 6.300 | **GM94C50256309** | Price |
| 10mm | 160mm | **GM94C50M101609** | Price |
| 1-1/4 | 3.940 | **GM94C50123949** | Price |
| 1-1/4 | 6.300 | **GM94C50126309** | Price |
| 12mm | 160mm | **GM94C50M121609** | Price |
| 12mm | 80mm | **GM94C50M12809** | Price |
| 3/4 | 3.150 | **GM94C50753159** | Price |
| 3/4 | 6.300 | **GM94C50756309** | Price |
| 3/8 | 3.150 | **GM94C50383159** | Price |
| 3/8 | 6.300 | **GM94C50386309** | Price |
| 5/16 | 3.150 | **GM94C50313159** | Price |
| 5/16 | 6.300 | **GM94C50316309** | Price |
| 5/8 | 3.150 | **GM94C50623159** | Price |
| 5/8 | 6.300 | **GM94C50626309** | Price |
| 8mm | 80mm | **GM94C50M08809** | Price |

## HAIMER UNO Tool Presetters

New!







| Type - UNO Tool Presetter Premium | | | | | | | |
|---|---|---|---|---|---|---|---|
| Model No. | Max. Tool Dia. (in.) | Max. Snap Gauge Tool Dia. (in.) | Max. Tool Length Z-Axis (in.) | Max. Tool Weight | Weight | Order No. | Price |
| M-G1120.US | 15.75 | 3.93 | 15.75 / 27.56 | 66 lbs | 562 lbs | **HA72MG1120US** | Price |

| Type - UNO Tool Presetter Smart | | | | | | | |
|---|---|---|---|---|---|---|---|
| Model No. | Max. Tool Dia. (in.) | Max. Snap Gauge Tool Dia. (in.) | Max. Tool Length Z-Axis (in.) | Max. Tool Weight | Weight | Order No. | Price |
| M-G1110.US | 15.75 | - | 15.75 / 27.56 | 66 lbs | 562 lbs | **HA72MG1110US** | Price |

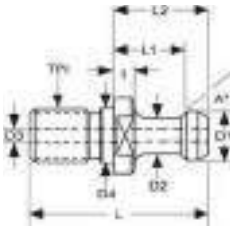
| Type - UNO Tool Pressetter Automatic Drive | | | | | | | |
|---|---|---|---|---|---|---|---|
| Model No. | Max. Tool Dia. (in.) | Max. Snap Gauge Tool Dia. (in.) | Max. Tool Length Z-Axis (in.) | Max. Tool Weight | Weight | Order No. | Price |
| M-G1160.US | 15.75 | 3.93 | 15.75 / 27.56 | 66 lbs | 562 lbs | **HA72MG1160US** | Price |

**F.O.B. Villa Park, IL • Ships by Truck**

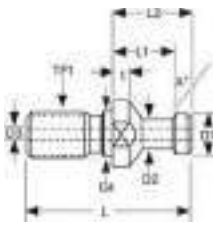
## RAPIDHOLD Retention Knobs

- Our retention knobs are made out of 8620 Alloy Steel
- Hardened to 60HRC
- Black Oxide coating for rust protection
- All contact surfaces are precision ground

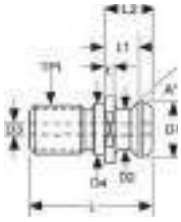
New!



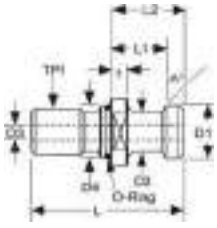
Style 1



Style 2



Style 4



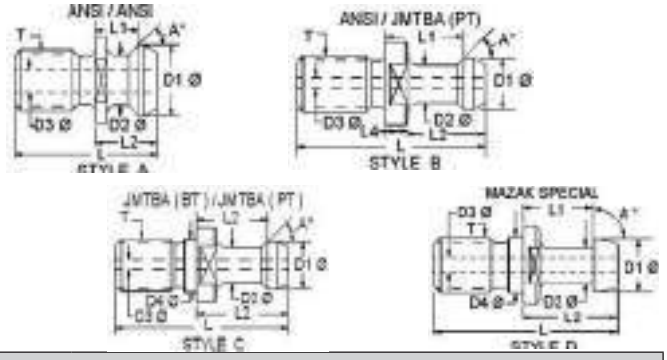

Style 4

| Toolholder - CAT40 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Use With | Thru Coolant | Style | TPI | Angle | Knob Dia. (in.) | Neck Dia. (in.) | Hole Dia. (in.) | Pilot Dia. (in.) | OAL (in.) | Dim. L1 (in.) | Dim. L2 (in.) | Order No. | Price |
| BRIDGEPORT, LEADWELL | NA | 1 | 5/8-11 | 45° | .589 | .392 | - | .636 | 2.250 | .988 | 1.264 | **HF6047305** | Price |
| FADAL, DMG, HURCO | Coolant | 4 | 5/8-11 | 45° | .740 | .490 | .281 | .636 | 1.620 | .440 | .640 | **HF6047286** | Price |
| HAAS, CHEVALIER, FEELER, FRYER, JOHNFORD | Coolant | 1 | 5/8-11 | 45° | .589 | .392 | .200 | .636 | 2.250 | .988 | 1.264 | **HF6047313** | Price |
| HAAS, CHEVALIER, FEELER, FRYER, JOHNFORD | NA | 1 | 5/8-11 | 45° | .589 | .392 | - | .636 | 2.250 | .988 | 1.264 | **HF6047304** | Price |
| KITAMURA, DOOSAN, HYUNDAI KIA | Coolant | 2 | 5/8-11 | 15° | .747 | .549 | .281 | .641 | 2.004 | .787 | 1.024 | **HF6047343** | Price |
| MAKINO | Coolant | 5 | 5/8-11 | 15° | .746 | .549 | .236 | .641 | 2.008 | .792 | 1.028 | **HF6047359** | Price |
| MAKINO, MITSUBISHI, ENSHU, HITACHI, KIRA, OKUMA, MILLTRONICS | NA | 1 | 5/8-11 | 60° | .589 | .392 | - | .636 | 2.250 | .988 | 1.264 | **HF6047386** | Price |
| MAZAK, FADAL, DMG, HURCO | Coolant | 4 | 5/8-11 | 45° | .740 | .490 | .280 | .641 | 1.620 | .440 | .640 | **HF6047288** | Price |
| MAZAK, FADAL, DMG, HURCO | NA | 4 | 5/8-11 | 45° | .740 | .490 | - | .636 | 1.620 | .440 | .640 | **HF6047287** | Price |
| MORI SEIKI | Coolant | 2 | 5/8-11 | 15° | .747 | .548 | .281 | .641 | 2.004 | .787 | 1.024 | **HF6047387** | Price |
| MORI SEIKI, OKK, KIRA | NA | 1 | 5/8-11 | 90° | .589 | .392 | - | .636 | 2.250 | .988 | 1.264 | **HF6047831** | Price |

| Toolholder - CAT50 | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For Use With | Thru Coolant | Style | TPI | Angle | Knob Dia. (in.) | Neck Dia. (in.) | Hole Dia. (in.) | Pilot Dia. (in.) | OAL (in.) | Dim. L1 (in.) | Dim. L2 (in.) | Order No. | Price |
| DOOSAN, HYUNDAI KIA | Coolant | 1 | 1-8 | 45° | .903 | .668 | .390 | 1.026 | 3.355 | 1.384 | 1.778 | **HF6047317** | Price |
| HAAS, MILLTRONICS, VIPER, ENSHU, AWEA | Coolant | 1 | 1-8 | 45° | .903 | .668 | .312 | 1.026 | 3.355 | 1.384 | 1.778 | **HF6047308** | Price |
| HAAS, MILLTRONICS, VIPER, ENSHU, AWEA | NA | 1 | 1-8 | 45° | .903 | .668 | - | 1.026 | 3.355 | 1.384 | 1.778 | **HF6047309** | Price |
| MAKINO | Coolant | 1 | 1-8 | 45° | .903 | .668 | .236 | 1.026 | 3.353 | 1.384 | 1.778 | **HF6047318** | Price |
| MAZAK, DMG, G&L, HURCO, FADAL | Coolant | 4 | 1-8 | 45° | 1.14 | .820 | .468 | 1.026 | 2.575 | .700 | 1.000 | **HF6047291** | Price |
| MAZAK, DMG, G&L, HURCO, FADAL, WALTER GRINDERS | NA | 4 | 1-8 | 45° | 1.14 | .820 | - | 1.026 | 2.575 | .700 | 1.000 | **HF6047292** | Price |
| MORI SEIKI, OKK, YANG | NA | 1 | 1-8 | 90° | .903 | .668 | - | 1.026 | 3.350 | 1.384 | 1.778 | **HF6047389** | Price |
| OKK | Coolant | 1 | 1-8 | 90° | .903 | .668 | .250 | 1.026 | 3.350 | 1.384 | 1.778 | **HF6047320** | Price |
| OKUMA, HITACHI, SNK, TOSHIBA | Coolant | 1 | 1-8 | 60° | .903 | .668 | .335 | 1.026 | 3.355 | 1.384 | 1.778 | **HF6047319** | Price |
| OKUMA, HITACHI, SNK, TOSHIBA | NA | 1 | 1-8 | 60° | .903 | .668 | - | 1.026 | 3.355 | 1.384 | 1.778 | **HF6047306** | Price |
| TOYODA | Coolant | 1 | 1-8 | 45° | .903 | .668 | .236 | 1.030 | 3.353 | 1.384 | 1.778 | **HF6047388** | Price |

## Retention Knobs

- High Torque (HT) and High Torque High Strength (HTHS0 retention knobs will increase production 10 to 40%, reduce set-up times, reduce polishing times, increase spindle life, improve finishes and increase tool life
- HT knobs are manufactured from AISI 8620H material
- HS and HTSHS knobs are made from AISI 9310H
- HT and HTHS knobs will fit any toolholder made to industry standards
- HT and HTHS retentionknbos should be installed according to the manufacturer's torque chart provided with each knob using a retention knob socket and torque wrench
- Marked with serieal numbers




| Tool Shank - BT30 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Style | TPI | Angle (Deg.) | Knob Dia. (in.) | Hole (in.) | Pilot (in.) | Shoulder (in.) | Dim. L1 (in.) | Dim. L2 (in.) | Flange (in.) | Socket No. | Order No. | Price |
| B | M12 x 1.75 | 45 | .431 | - | .492 | .648 | .707 | .904 | .195 | RKW30M | **GM8531109HTHS** | Price |
| B | M12 x 1.75 | 45 | .431 | .098 | .492 | .648 | .707 | .904 | .195 | RKW30M | **GM8531109CHTHS** | Price |
| B | M12 x 1.75 | 60 | .431 | - | .492 | .648 | .707 | .904 | .195 | RKW30M | **GM8525084AHTHS** | Price |
| B | M12 x 1.75 | 60 | .431 | - | .492 | .648 | .707 | .904 | .195 | RKW30M | **GM8531109AHTHS** | Price |
| B | M12 x 1.75 | 60 | .431 | .098 | .492 | .648 | .707 | .904 | .195 | RKW30M | **GM8525084ACHTHS** | Price |
| B | M12 x 1.75 | 60 | .431 | .098 | .492 | .648 | .707 | .904 | .195 | RKW30M | **GM8531109ACHTHS** | Price |

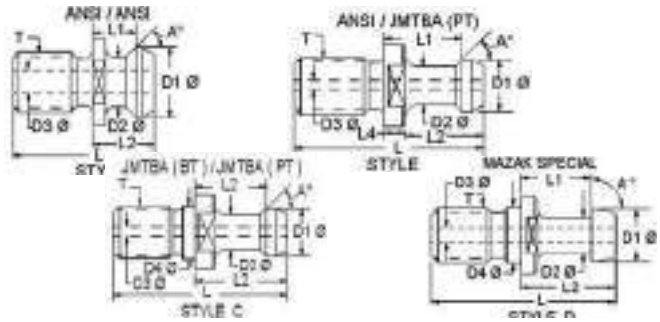
| Tool Shank - BT40 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Style | TPI | Angle (Deg.) | Knob Dia. (in.) | Hole (in.) | Pilot (in.) | Shoulder (in.) | Dim. L1 (in.) | Dim. L2 (in.) | Flange (in.) | Socket No. | Order No. | Price |
| A | M16 x 2.0 | 45 | .74 | .217 | .669 | .93 | .552 | .752 | .234 | RKW40 | **GM8511126AHTHS** | Price |
| A | M16 x 2.0 | 45 | .74 | .236 | .669 | .93 | .440 | .640 | .12 | RKW40 | **GM8511122AHTHS** | Price |
| B | M16 x 2.0 | 45 | .589 | - | .669 | .923 | 1.1 | 1.376 | .234 | RKW40 | **GM8531113HTHS** | Price |
| B | M16 x 2.0 | 45 | .589 | .157 | .669 | .923 | 1.1 | 1.376 | .234 | RKW40 | **GM8531113DHTHS** | Price |
| B | M16 x 2.0 | 60 | .589 | - | .669 | .923 | 1.1 | 1.376 | .234 | RKW40 | **GM8531113AHTHS** | Price |
| B | M16 x 2.0 | 60 | .589 | .157 | .669 | .923 | 1.1 | 1.376 | .234 | RKW40 | **GM8531113EHTHS** | Price |
| B | M16 x 2.0 | 90 | .589 | - | .669 | .923 | 1.1 | 1.376 | .234 | RKW40 | **GM8531113BHTHS** | Price |
| B | M16 x 2.0 | 90 | .589 | .157 | .669 | .923 | 1.1 | 1.376 | .234 | RKW40 | **GM8531113FHTHS** | Price |
| D | M16 x 2.0 | 15 | .746 | .236 | .669 | .903 | .904 | 1.14 | .274 | RKW40 | **GM8531677HTHS** | Price |
| D | M16 x 2.0 | 15 | .746 | .236 | .669 | .903 | .904 | 1.14 | .274 | RKW40 | **GM8532913HTHS** | Price |

| Tool Shank - BT50 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Style | TPI | Angle (Deg.) | Knob Dia. (in.) | Hole (in.) | Pilot (in.) | Shoulder (in.) | Dim. L1 (in.) | Dim. L2 (in.) | Flange (in.) | Socket No. | Order No. | Price |
| A | M24 x 3.0 | 45 | 1.14 | .468 | .984 | 1.43 | .700 | 1 | .2 | RKW50 | **GM8511144AHT** | Price |
| B | M24 x 3.0 | 45 | .903 | - | .94 | 1.492 | 1.376 | 1.77 | .392 | RKW50M | **GM8531117HT** | Price |
| B | M24 x 3.0 | 45 | .903 | .236 | .984 | 1.492 | 1.376 | 1.77 | .392 | RKW50M | **GM8531643HT** | Price |
| B | M24 x 3.0 | 60 | .903 | - | .984 | 1.492 | 1.376 | 1.77 | .392 | RKW50M | **GM8531117AHT** | Price |
| B | M24 x 3.0 | 60 | .903 | - | .984 | 1.492 | 1.376 | 1.77 | .392 | RKW50M | **GM8531117AHTHS** | Price |
| B | M24 x 3.0 | 60 | .903 | .312 | .984 | 1.492 | 1.376 | 1.77 | .392 | RKW50M | **GM8531843HT** | Price |
| B | M24 x 3.0 | 60 | .903 | .312 | .984 | 1.492 | 1.376 | 1.77 | .392 | RKW50M | **GM8531843HTHS** | Price |
| B | M24 x X3.0 | 90 | .903 | - | .984 | 1.492 | 1.376 | 1.77 | .392 | RKW50M | **GM8531117BHT** | Price |
| C | M24 x 3.0 | 15 | 1.101 | .453 | .983 | 1.413 | .984 | 1.339 | .196 | RKW50M | **GM8571144HT** | Price |

| Tool Shank - CAT40 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Style | TPI | Angle (Deg.) | Knob Dia. (in.) | Hole (in.) | Pilot (in.) | Shoulder (in.) | Dim. L1 (in.) | Dim. L2 (in.) | Flange (in.) | Socket No. | Order No. | Price |
| A | 5/8 - 11 | 45 | .74 | - | .636 | .944 | .440 | .640 | .12 | RKW40 | **GM8511123HTHS** | Price |
| A | 5/8 - 11 | 45 | .74 | .156 | .64 | .862 | .44 | .64 | .118 | RKW40 | **GM8532760HTHS** | Price |
| A | 5/8 - 11 | 45 | .74 | .236 | .636 | .944 | .440 | .640 | .12 | RKW40 | **GM8511122HTHS** | Price |
| A | 5/8 - 11 | 45 | .74 | .236 | .64 | .862 | .440 | .640 | .12 | RKW40 | **GM8531226HTHS** | Price |
| B | 5/8 - 11 | 45 | .588 | - | .641 | .938 | .988 | 1.264 | .124 | RKW40 | **GM8532114HTHS** | Price |
| B | 5/8 - 11 | 45 | .588 | .116 | 0.61 | .903 | .988 | 1.264 | .124 | RKW40 | **GM8532130HTHS** | Price |
| B | 5/8 - 11 | 45 | .588 | .157 | .641 | .938 | .988 | 1.264 | .124 | RKW40 | **GM8532114CHTHS** | Price |
| B | 5/8 - 11 | 45 | .589 | .157 | .636 | .938 | .988 | 1.264 | .234 | RKW40 | **GM8531514HTHS** | Price |
| B | 5/8 - 11 | 45 | .594 | - | .64 | .875 | 1.139 | 1.438 | .187 | RKW40M | **GM8517122HTHS** | Price |
| B | 5/8 - 11 | 45 | .594 | .157 | .64 | .875 | 1.139 | 1.438 | .187 | RKW40M | **GM8517123HTHS** | Price |
| B | 5/8 - 11 | 60 | .589 | - | .636 | .903 | .988 | 1.264 | .234 | RKW40 | **GM8531114AHTHS** | Price |
| B | 5/8 - 11 | 60 | .589 | .138 | .636 | .903 | .988 | 1.264 | .234 | RKW40 | **GM8531814AHTHS** | Price |
| B | 5/8 - 11 | 90 | .589 | - | .636 | .903 | .988 | 1.264 | .234 | RKW40 | **GM8531114BHTHS** | Price |
| B | 5/8 - 11 | 90 | .589 | - | .636 | .938 | .707 | .982 | .194 | RKW40 | **GM8532414BHTHS** | Price |
| B | 5/8 - 11 | 90 | .589 | .157 | .636 | .938 | .988 | 1.264 | .234 | RKW40 | **GM8535030HTHS** | Price |
| C | 5/8 - 11 | 15 | .747 | .236 | .605 | .902 | .787 | 1.024 | .157 | RKW40 | **GM8571123HTHS** | Price |
| C | 5/8 - 11 | 15 | .747 | .236 | .641 | .902 | .787 | 1.024 | .157 | RKW40 | **GM8575022HTHS** | Price |
| D | 5/8 - 11 | 15 | .746 | - | .641 | .903 | .792 | 1.028 | .276 | RKW40 | **GM8531616HTHS** | Price |
| D | 5/8 - 11 | 15 | .746 | .217 | .641 | .902 | .787 | 1.024 | .158 | RKW40 | **GM8551023HTHS** | Price |
| D | 5/8 - 11 | 15 | .746 | .236 | .641 | .903 | .792 | 1.028 | .276 | RKW40 | **GM8531617HTHS** | Price |

## Retention Knobs

- High Torque (HT) and High Torque High Strength (HTHS0 retention knobs will increase production 10 to 40%, reduce set-up times, reduce polishing times, increase spindle life, improve finishes and increase tool life
- HT knobs are manufactured from AISI 8620H material
- HS and HTSHS knobs are made from AISI 9310H
- HT and HTHS knobs will fit any toolholder made to industry standards
- HT and HTHS retentionknbos should be installed according to the manufacturer's torque chart provided with each knob using a retention knob socket and torque wrench
- Marked with serieal numbers

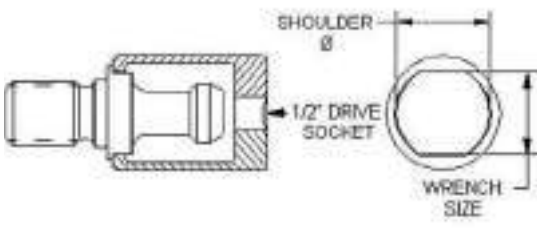



| Tool Shank - CAT50 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Style | TPI | Angle (Deg.) | Knob Dia. (in.) | Hole (in.) | Pilot (in.) | Shoulder (in.) | Dim. L1 (in.) | Dim. L2 (in.) | Flange (in.) | Socket No. | Order No. | Price |
| A | 1-8 | 45 | 1.14 | - | 1.036 | 1.438 | .700 | 1 | .2 | RKW50 | **GM8511146HT** | Price |
| A | 1-8 | 45 | 1.14 | .39 | 1.036 | 1.43 | .700 | 1 | .2 | RKW50 | **GM8531275HT** | Price |
| A | 1-8 | 45 | 1.14 | .468 | 1.036 | 1.43 | .700 | 1 | .2 | RKW50 | **GM8511144HT** | Price |
| A | 1-8 | 45 | 1.14 | .468 | 1.036 | 1.43 | .700 | 1 | .2 | RKW50 | **GM8511144HTHS** | Price |
| B | 1-8 | 45 | .903 | - | 1.026 | 1.438 | 1.384 | 1.778 | .392 | RKW50 | **GM8531118HTHS** | Price |
| B | 1-8 | 45 | .903 | .236 | 1.026 | 1.438 | 1.384 | 1.778 | .392 | RKW50 | **GM8531647HT** | Price |
| B | 1-8 | 45 | .903 | .236 | 1.026 | 1.438 | 1.384 | 1.778 | .392 | RKW50 | **GM8531647HTHS** | Price |
| B | 1-8 | 45 | .903 | .236 | 1.031 | 1.438 | 1.384 | 1.778 | .4 | RKW50 | **GM8531553HT** | Price |
| B | 1-8 | 45 | .903 | .236 | 1.031 | 1.438 | 1.384 | 1.778 | .4 | RKW50 | **GM8531553HTHS** | Price |
| B | 1-8 | 45 | .903 | .312 | 1.026 | 1.438 | 1.384 | 1.778 | .392 | RKW50 | **GM8531118DHTHS** | Price |
| B | 1-8 | 45 | .903 | .39 | 1.026 | 1.438 | 1.384 | 1.778 | .392 | RKW50 | **GM8531645HTHS** | Price |
| B | 1-8 | 60 | .903 | - | 1.026 | 1.438 | 1.384 | 1.778 | .392 | RKW50 | **GM8531118AHT** | Price |
| B | 1-8 | 60 | .903 | .236 | 1.023 | 1.438 | 1.384 | 1.778 | .392 | RKW50 | **GM8532749HT** | Price |
| B | 1-8 | 60 | .903 | .236 | 1.023 | 1.438 | 1.384 | 1.778 | .392 | RKW50 | **GM8532749HTHS** | Price |
| B | 1-8 | 60 | .903 | .335 | 1.026 | 1.438 | 1.384 | 1.778 | .392 | RKW50 | **GM8531844AHTHS** | Price |
| B | 1-8 | 90 | .903 | - | 1.026 | 1.438 | 1.384 | 1.778 | .392 | RKW50 | **GM8531118BHT** | Price |
| B | 1-8 | 90 | .903 | - | 1.026 | 1.438 | 1.384 | 1.778 | .392 | RKW50 | **GM8531118BHTHS** | Price |
| B | 1-8 | 90 | .903 | .25 | 1.026 | 1.438 | 1.384 | 1.778 | .392 | RKW50 | **GM8534218BHTHS** | Price |
| B | 1-8 | 90 | .903 | .315 | 1.03 | 1.438 | 1.384 | 1.778 | .392 | RKW50 | **GM8534275HTHS** | Price |
| B | 1-8 | 90 | .942 | - | N/A | 1.415 | .903 | 1.218 | .197 | RKW50M | **GM8532418BHT** | Price |
| B | 1-8 | 90 | .942 | .25 | N/A | 1.415 | .903 | 1.218 | .197 | RKW50M | **GM8532419BHT** | Price |
| C | 1-8 | 15 | 1.101 | .455 | 1.031 | 1.413 | .984 | 1.338 | .197 | RKW50M | **GM8571145HT** | Price |
| C | 1-8 | 15 | 1.101 | .455 | 1.031 | 1.413 | .984 | 1.338 | .197 | RKW50M | **GM8571145HTHS** | Price |
| D | 1-8 | 15 | 1.1 | .392 | 1.031 | 1.438 | .99 | 1.344 | .274 | RKW50 | **GM8531558HT** | Price |
| D | 1-8 | 15 | 1.1 | .392 | 1.031 | 1.438 | .99 | 1.344 | .274 | RKW50 | **GM8531558HTHS** | Price |

## Retention Knob Sockets

MADE IN THE USA

- Sockets aid in the installation and removal of Retention Knobs
- Ideal tightness is achieved, without rounding off the corners of the Retention Knob
- Note: Some Retention Knobs have mixed standards - Check the shoulder and Wrench Sizes carefully when selecting a Socket to fit other Retention Knobs not listed above
- Lifetime Guarantee
- Saves Time
- Sockets have 1/2" drive – ideal tightness is achieved




| Max. Flat (in.) | Max. Torque (ft./lb.) | Order No. | Price |
|---|---|---|---|
| .511 | 40 | **GM85RKW30M** | Price |
| .535 | 40 | **GM85RKW30** | Price |
| .556 | 40 | **GM85RKW30D** | Price |
| .711 | 85 | **GM85RKW40M** | Price |
| .755 | 85 | **GM85RKW40** | Price |

| Max. Flat (in.) | Max. Torque (ft./lb.) | Order No. | Price |
|---|---|---|---|
| .95 | 100 | **GM85RKW45M** | Price |
| 1.004 | 100 | **GM85RKW45** | Price |
| 1.185 | 110 | **GM85RKW50M** | Price |
| 1.255 | 110 | **GM85RKW50** | Price |

## Toolholder Vises

- Mounts horizontal or vertical
- Access both ends of toolholder
- Solid vise type grip
- Durable anodize finish
- Mounts to bench or toolcart
- Will not damage toolholder
- Handle ratchets for convenience

MADE IN THE USA



| Use with Taper | Order No. | Price |
|---|---|---|
| BT40 | **GM68MM40BT** | Price |
| BT50 | **GM68MM50BT** | Price |
| CAT40 | **GM68MM40V** | Price |
| CAT50 | **GM68MM50V** | Price |

## Rotary Tool Clamps

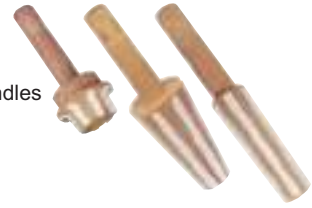
- 6-Position 45° Mounting Fixture
- Multiple use on ISO, Caterpillar and BT shanks
- Easy access for combined assembly of cutting tool and pull stud in one position
- Hardened and ground internal taper
- Tool holder secured by safety clamp screw
- Compact design for easy mounting on work table or tool cart



| For | Order No. | Price |
|---|---|---|
| 40 Taper | **GM68499540** | Price |
| 50 Taper | **GM68499550** | Price |

## Spindle Cleaners

- Plastic molded handle
- Cleaning strips resist oil and grease
- Cleans oil and grease build up in spindles
- Easy to use



| Taper Size | Order No. | Price |
|---|---|---|
| #30, R8 | **GK35230** | Price |
| #40, 5C | **GK35240** | Price |
| #50 | **GK35250** | Price |
| HSK63 | **GK35H063** | Price |

## SpinLMate® Taper Socket Cleaning Tools

- Quickest, surest safest method available for cleaning spindle and adapter sockets, tool presetter sockets and tool storage pockets
- It cleans the entire length of the taper socket in 3 seconds or less and insures a solid, concentric, repeatable cutting tool to spindle connection
- Complete tool includes 1 'ST' Blade Set and 1 'VR' Blade Set

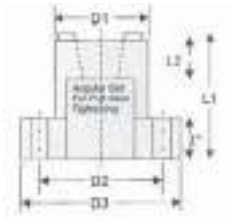
MADE IN THE USA



| Taper | Order No. | Price |
|---|---|---|
| #30, R8 | **GK4555090** | Price |
| #40, 5C | **GK4555110** | Price |
| #50 | **GK4555150** | Price |

## RAPIDHOLD™ CNC Tightening Fixtures

- Multiple usage on toolholder shank CAT, BT, NMTB & ISO
- Enables strong gripping power of cutting tools
- Access both ends of toolholders simultaneously
- Secures maximum protection of toolholder
- Tools can be mounted in vertical and horizontal positions
- High quality compact and rigid design for mounting on work table or tool cart

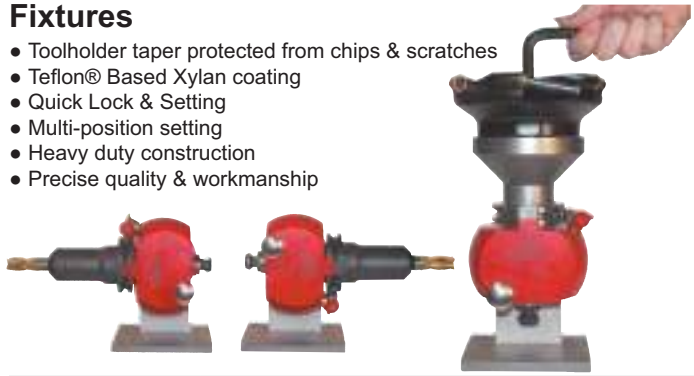





| Collet Style | D1 (in.) | D2 PCD (in.) | Flange Dia. D3 (in.) | Flange Thickness | Total Hgt. L1 (in.) | L2 (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| CAT/BT30 | 3.50 | 4.25 | 5 | 1.00 | 4.50 | 1.55 | **TS1029901** | Price |
| CAT/BT40 | 3.50 | 4.25 | 5 | 1.00 | 5.5 | 2.15 | **TS1029902** | Price |
| CAT/BT50 | 5.25 | 6.00 | 6 | 1.00 | 7.5 | 3.50 | **TS1029903** | Price |

## Smart Tool-Setter Tightening Fixtures

- Toolholder taper protected from chips & scratches
- Teflon® Based Xylan coating
- Quick Lock & Setting
- Multi-position setting
- Heavy duty construction
- Precise quality & workmanship



| Model No. | ID of Liners | Order No. | Price |
|---|---|---|---|
| DSTSCH-030 | BT-30 | **GG3536000** | Price |
| DSTSCH-040 | CAT40/BT40 | **GG3536001** | Price |
| DSTSCH-050 | CAT50/BT50 | **GG3536002** | Price |
| DSTSCH-063 | HSK-063 | **GG3536003** | Price |
| DSTSCH-100 | HSK-100 | **GG3536004** | Price |

## Replacement Blades

MADE IN THE USA

| Color - Black For Use With - 'ST' Standard Use | | |
|---|---|---|
| **Taper** | **Order No.** | **Price** |
| #30, R8 | **GK4572340** | Price |
| #40, 5C | **GK4572360** | Price |
| #50 | **GK4572460** | Price |

| Color - Red For Use With - 'EP' Polishing | | |
|---|---|---|
| **Taper** | **Order No.** | **Price** |
| #30, R8 | **GK4574340** | Price |
| #40, 5C | **GK4574360** | Price |
| #50 | **GK4574460** | Price |

| Color - Yellow For Use With - 'VR' Shredding | | |
|---|---|---|
| **Taper** | **Order No.** | **Price** |
| #30, R8 | **GK4573340** | Price |
| #40, 5C | **GK4573360** | Price |
| #50 | **GK4573460** | Price |

## Super-Precision Intro-Pro Sets

MADE IN THE USA



**The deluxe, affordable beginner's set built by the world's #1 quick change tool post manufacturer.**

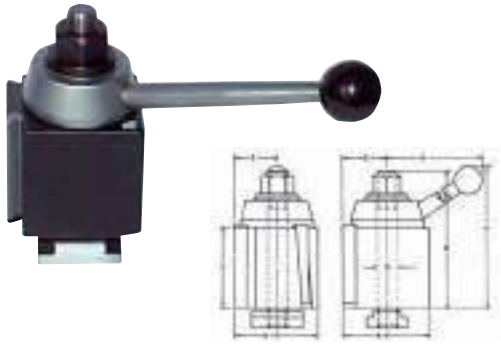
- Precision-engineered to ensure repetitive accuracy
- Advanced design provides built-in quick tool changing, versatility with positive rigidity to meet the most exacting working tolerances
- Quickly and easily installed on any engine lathe, bench or CNC lathe for a wide range of operations - from fine precision work to heavy duty cutting

**Set Includes:**

- Super Precision Tool Post
- #1 Turning & Facing Holder
- #2 Boring, Turning & Facing Holder

| Series | Swing | Holders Included | Order No. | Price |
|---|---|---|---|---|
| AXA | Up to 12 | AXA1, AXA2 | **GG30AXAIP** | Price |
| BXA | 10 to 15 | BXA1, BXA2 | **GG30BXAIP** | Price |
| CXA | 13 to 18 | CXA1, CXA2 | **GG30CXAIP** | Price |
| CA | 14 to 20 | CA1, CA2 | **GG30CAIP** | Price |
| DA | 17 to 48 | DA1, DA2 | **GG30DAIP** | Price |

## Super Precision Tool Posts



- Precision engineered to assure repetitive accuracy
- Advanced design provides built in quick tool changing versatility with positive rigidity to meet the most exacting working tolerances
- Quickly and easily installed on any engine lathe, bench or turret lathe, for a wide range of operations — from fine precision work to heavy duty cutting - Series AXA, BXA, CXA, CA, DA and EA

**Features:**

- Guaranteed lasting repetitive accuracy to within millionths
- Only a second to change tools
- Rugged — no chatter or vibration
- No time wasted with shims
- Unlimited versatility
- Safe and simple to operate

| Series | A (in.) | B (in.) | D (in.) | E (in.) | H (in.) | R (in.) | Swing (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| AXA | 2.500 | 3-7/8 | 9/16 | 1-3/4 | 4-11/16 | 5-3/4 | Up to 12 | **GG3010000** | Price |
| BXA | 3.000 | 4-5/8 | 5/8 | 1-5/8 | 5-9/16 | 7-5/16 | 10 to 15 | **GG3020000** | Price |
| CXA | 3.500 | 5-1/8 | 3/4 | 1-7/8 | 6-1/8 | 7-7/8 | 13 to18 | **GG3030000** | Price |
| CA | 4.000 | 6-1/4 | 7/8 | 2-1/8 | 7 | 9 | 14 to 20 | **GG3040000** | Price |
| DA | 5.000 | 7-1/8 | 1.000 | 2-11/16 | 8-3/4 | 10-7/8 | 17 to 48 | **GG3050000** | Price |
| EA | 6.000 | 8-1/2 | 1-1/4 | 3-1/8 | 10 | 13 | 25 to 48 | **GG3060000** | Price |

## Quick Change Tool Post & Four Holder Sets



AXA, BXA, CXA, CA, DA and EA Sets Include:

- 1 Tool post and 4 holders
- No. 1 turning and facing holder
- No. 2 boring, turning and facing holder
- No. 4 heavy-duty boring bar holder
- No. 7 universal parting blade holder

| Series | Swing (in.) | Order No. | Price |
|---|---|---|---|
| BXA | 10 to 15 | **GG3021000** | Price |
| CXA | 13 to 18 | **GG3031000** | Price |
| CA | 14 to 20 | **GG3041000** | Price |
| DA | 17 to 48 | **GG3051000** | Price |
| EA | 25 to 48 | **GG3061000** | Price |

## Quick Change Tool Post & Six Holder Sets



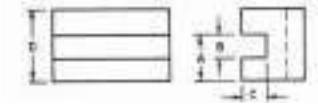
**AXA, BXA, CXA and CA Sets Include:**
- 1 Tool post and 6 holders
- No. 1 turning and facing holder
- No. 2 boring, turning and facing holder
- No. 4 heavy-duty boring bar holder
- No. 6 multiple tool holder
- No. 7 universal parting blade holder
- No. 8 threading holder

**DA Sets Include:**
- Holders No. 1, 2, 41, 6 and 8
- No. 16 turning and facing holder for carbide inserts

| Series | Swing (in.) | Order No. | Price |
|---|---|---|---|
| AXA | Up to 12 | **GG3011100** | Price |
| BXA | 10 to 15 | **GG3021100** | Price |
| CXA | 13 to 18 | **GG3031100** | Price |
| CA | 14 to 20 | **GG3041100** | Price |
| DA | 17 to 48 | **GG3051100** | Price |

**Set supplied with screw wrenches less cutting tools.**

## No. 1 Turning & Facing Holders

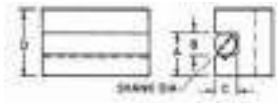




- Takes various sizes of bits
- Turning and facing tools can be locked in together
- Saves time and labor when changing operations

| Series | A (in.) | B (in.) | C (in.) | D (in.) | Tool Bit | Order No. | Price |
|---|---|---|---|---|---|---|---|
| MXA | 13/16 | 1/2 | 23/64 | 1-1/8 | 1/4 to 1/2 | **GG30MXA1** | Price |
| AXA-AX | 15/16 | 1/2 | 7/16 | 1-1/2 | 3/16 - 1/2 | **GG3010001** | Price |
| BXA-BX | 1-1/8 | 5/8 | 1/2 | 1-3/4 | 1/4 - 5/8 | **GG3020001** | Price |
| CXA-CX | 1-7/16 | 3/4 | 5/8 | 2-1/8 | 1/2 - 3/4 | **GG3030001** | Price |
| CA | 1-11/16 | 1 | 3/4 | 2-1/2 | 1/2 - 1 | **GG3040001** | Price |
| DA | 2-3/16 | 1-1/4 | 1 | 3-1/8 | 1/2 - 1-1/4 | **GG3050001** | Price |
| EA | 2-11/16 | 1-1/2 | 1-1/4 | 4 | 3/4 - 1-1/2 | **GG3060001** | Price |

## No. 2 Boring, Turning & Facing Holders

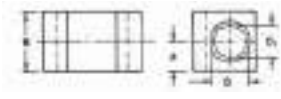




- "V" groove holds round shank boring bars and tools as well as square tool bits

| Series | A (in.) | B (in.) | Shank-C (in.) | D (in.) | Tool Bit | Order No. | Price |
|---|---|---|---|---|---|---|---|
| MXA | 13/16 | 1/2 | 23/64 | 1-1/8 | 1/4 to 1/2 | **GG30MXA2** | Price |
| AXA-AX | 15/16 | 1/2 | 7/16 | 1-1/2 | 3/16 - 1/2 | **GG3010002** | Price |
| BXA-BX | 1-1/8 | 5/8 | 1/2 | 1-3/4 | 1/4 - 5/8 | **GG3020002** | Price |
| CXA-CX | 1-7/16 | 3/4 | 3/4 | 2-1/8 | 1/2 - 3/4 | **GG3030002** | Price |
| CA | 1-11/16 | 1 | 13/16 | 2-1/2 | 1/2 - 1 | **GG3040002** | Price |
| DA | 2-3/16 | 1-1/4 | 1 | 3-1/8 | 1/2 - 1-1/4 | **GG3050002** | Price |
| EA | 2-11/16 | 1-1/2 | 1-1/4 | 4 | 3/4 - 1-1/2 | **GG3060002** | Price |

## No. 4 Heavy Duty Boring Bar Holders



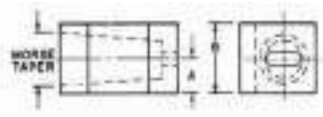


- Equipped with a split bushing to accommodate a boring bar of a smaller diameter
- It grips bar with extreme rigidity, cuts smoothly without chatter

| Series | A (in.) | B (in.) | D (in.) | D1 (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| MXA | 1/2 | 1-1/8 | 1/2 | - | **GG30MXA4** | Price |
| AXA-AX | 3/4 | 1-1/2 | 3/4 | 5/8 | **GG3010004** | Price |
| BXA-BX | 1 | 2 | 1 | 3/4 | **GG3020004** | Price |
| CXA-CX | 1 | 2 | 1 | 3/4 | **GG3030004** | Price |
| CA | 1-3/8 | 2-3/4 | 1-1/4 | 1 | **GG3040004** | Price |
| DA | 1-5/8 | 3-1/4 | 1-1/2 | 1-1/4 | **GG3050004** | Price |
| EA | 2-1/4 | 4-1/2 | 2-1/2 | 2 | **GG3060004** | Price |

## No. 5 Morse Taper Holders for Drilling

- Drills with carriage by using power feed instead of tail stock
- Easily centered

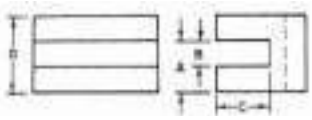





| Series | A (in.) | B (in.) | Taper Hole | Order No. | Price |
|---|---|---|---|---|---|
| AXA-AX | 3/4 | 1-1/2 | 2 MT | **GG3010005** | Price |
| BXA-BX | 7/8 | 1-3/4 | 2 MT | **GG3020005** | Price |
| CXA-CX | 1 | 2 | 3 MT | **GG3030005** | Price |
| CA | 1-1/4 | 2-1/2 | 3 MT | **GG3040005** | Price |
| DA | 1-9/16 | 3-1/8 | 4 MT | **GG3050005** | Price |
| EA | 1-5/8 | 3-1/4 | 5 MT | **GG3060005** | Price |

## No. 6 Multiple Tool Holders

- Versatile, ideal for repetitive work; for gang set-ups or form tools

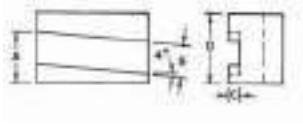





| Series | A (in.) | B (in.) | C (in.) | D (in.) | Tool Bit | Order No. | Price |
|---|---|---|---|---|---|---|---|
| AXA-AX | 1 | 1/2 | 1-1/8 | 1-9/16 | 1/4 - 1/2 | **GG3010006** | Price |
| BXA-BX | 1-1/16 | 1/2 | 1-9/16 | 1-3/4 | 1/4 - 1/2 | **GG3020006** | Price |
| CXA-CX | 1-5/16 | 5/8 | 1-7/16 | 2-1/8 | 3/8 - 5/8 | **GG3030006** | Price |
| CA | 1-9/16 | 3/4 | 1-7/8 | 2-1/2 | 1/2 - 3/4 | **GG3040006** | Price |
| DA | 2-1/8 | 1 | 2-1/8 | 3-1/4 | 1/2 - 1 | **GG3050006** | Price |
| EA | 2-5/8 | 1-1/4 | 2-5/8 | 4 | 3/4 - 1-1/4 | **GG3060006** | Price |

## No. 7 Universal Parting Blade Tool Holders

- For bevel and T-type blades
- Enables you to cut-off close to chuck
- Absence of vibration prevents breaking blades



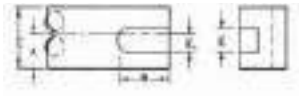



| Series | A (in.) | B (in.) | C (in.) | D (in.) | Blade Height | Order No. | Price |
|---|---|---|---|---|---|---|---|
| MXA | 23/32 | 1/2 | 1/8 | 1-3/8 | 1/2 | **GG30MXA7** | Price |
| AXA-AX | 13/16 | 1/2 | 3/16 | 1-1/2 | 1/2 | **GG3010007** | Price |
| BXA-BX | 1 | 11/16 | 3/16 | 1-3/4 | 11/16 | **GG3020007** | Price |
| CXA-CX | 1-3/16 | 3/4 | 3/16 | 2 | 3/4 | **GG3030007** | Price |
| CA | 1-7/16 | 7/8 | 1/4 | 2-1/2 | 7/8 | **GG3040007** | Price |
| DA | 1-3/4 | 1-1/8 | 1/4 | 2-3/4 | 1-1/8 | **GG3050007** | Price |
| EA | 1-7/8 | 1-1/8 | 1/4 | 3 | 1-1/8 | **GG3060007** | Price |

***No. 7 Holders are only for use with T-type blades; or with bevel (wedge shape) blades having parallel top and bottom edges**

## No. 10 Knurling, Turning & Facing Holders

- Supplied with a set of high speed precision ground and lapped medium diamond knurls






| Series | A (in.) | B (in.) | C (in.) | E (in.) | E1 (in.) | Tool Bit | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| MXA | 5/8 | 1-13/16 | 1-3/16 | 1/2 | 7/16 | 1/2 | **GG30MXA10** | Price |
| AXA-AX | 7/8 | 2-1/2 | 1-9/16 | 1/2 | 3/8 | 3/16 to 1/2 | **GG3010010** | Price |
| BXA-BX | 1 | 2-5/8 | 1-3/4 | 5/8 | 1/2 | 1/4 to 5/8 | **GG3020010** | Price |
| CXA-CX | 1-3/16 | 3-1/8 | 2 | 3/4 | 5/8 | 1/2 to 3/4 | **GG3030010** | Price |
| CA | 1-7/16 | 3-3/4 | 2-1/2 | 1 | 3/4 | 1/2 to 1 | **GG3040010** | Price |
| DA | 1-7/8 | 4-1/2 | 3-1/8 | 1-1/4 | 1 | 1/2 to 1-1/4 | **GG3050010** | Price |

## Tool Posts & Holders

| Description - No. 1 Turning Tool Holder | | | |
|---|---|---|---|
| **Tool Cap.** | **Swing** | **Order No.** | **Price** |
| 3/16 to 1/2 | Capacity-Up to 12" Swing | **GG55740101** | Price |
| 1/4 to 5/8 | Capacity-10 to 15" Swing | **GG55740201** | Price |
| 1/2 to 3/4 | Capacity-13 to 18" Swing | **GG55740301** | Price |
| 1/2 to 1 | Capacity-14 to 20" Swing | **GG55740401** | Price |

| Description - No. 2 Boring, Turning & Facing Tool Holder | | | |
|---|---|---|---|
| **Tool Cap.** | **Swing** | **Order No.** | **Price** |
| 3/16 to 1/2 | Capacity-Up to 12" Swing | **GG55740102** | Price |
| 1/4 to 5/8 | Capacity-10 to 15" Swing | **GG55740202** | Price |
| 1/2 to 3/4 | Capacity-13 to 18" Swing | **GG55740302** | Price |
| 1/2 to 1 | Capacity-14 to 20" Swing | **GG55740402** | Price |

| Description - No. 4 Boring Bar Tool Holder | | | |
|---|---|---|---|
| **Tool Cap.** | **Swing** | **Order No.** | **Price** |
| 5/8 x 3/4 | Capacity-Up to 12" Swing | **GG55740104** | Price |
| 3/4 x 1 | Capacity-10 to 15" Swing | **GG55740204** | Price |
| 3/4 x 1 | Capacity-13 to 18" Swing | **GG55740304** | Price |
| 1 x 1-1/4 | Capacity-14 to 20" Swing | **GG55740404** | Price |

| Description - No. 5 Morse Taper Tool Holder | | | |
|---|---|---|---|
| **Tool Cap.** | **Swing** | **Order No.** | **Price** |
| 2 MT | Capacity-Up to 12" Swing | **GG55740105** | Price |
| 2 MT | Capacity-10 to 15" Swing | **GG55740205** | Price |
| 3 MT | Capacity-13 to 18" Swing | **GG55740305** | Price |
| 3 MT | Capacity-14 to 20" Swing | **GG55740405** | Price |

| Description - No. 7 Universal Parting Blade Tool Holder | | | |
|---|---|---|---|
| **Tool Cap.** | **Swing** | **Order No.** | **Price** |
| 1/2 | Capacity-Up to 12" Swing | **GG55740107** | Price |
| 11/16 | Capacity-10 to 15" Swing | **GG55740207** | Price |
| 3/4 | Capacity-13 to 18" Swing | **GG55740307** | Price |
| 7/8 | Capacity-14 to 20" Swing | **GG55740407** | Price |

| Description - No. 10 Knurling, Facing, & Turning Tool Holder | | | |
|---|---|---|---|
| **Tool Cap.** | **Swing** | **Order No.** | **Price** |
| 3/16 x 1/2 | Capacity-Up to 12" Swing | **GG55740110** | Price |
| 1/4 x 5/8 | Capacity-10 to 15" Swing | **GG55740210** | Price |
| 1/2 x 3/4 | Capacity-13 to 18" Swing | **GG55740310** | Price |
| 1/2 x 1 | Capacity-14 to 20" Swing | **GG55740410** | Price |

| Description - No. 41 Boring Bar Tool Holder - Larger Capacity | | | |
|---|---|---|---|
| **Tool Cap.** | **Swing** | **Order No.** | **Price** |
| 3/4 x 1 | Capacity-Up to 12" Swing | **GG55740141** | Price |
| 1x 1-1/4 | Capacity-10 to 15" Swing | **GG55740241** | Price |
| 1x 1-1/4 | Capacity-13 to 18" Swing | **GG55740341** | Price |
| 1-1/4 x 1-1/2 | Capacity-14 to 20" Swing | **GG55740441** | Price |

| Description - No. 53 Morse Taper Tool Holder - Larger Taper | | | |
|---|---|---|---|
| **Tool Cap.** | **Swing** | **Order No.** | **Price** |
| 3 MT | Capacity-Up to 12" Swing | **GG55740153** | Price |
| 3 MT | Capacity-10 to 15" Swing | **GG55740253** | Price |
| 4 MT | Capacity-13 to 18" Swing | **GG55740354** | Price |
| 4 MT | Capacity-14 to 20" Swing | **GG55740454** | Price |

| Description - Piston Type Tool Post | | | |
|---|---|---|---|
| **Tool Cap.** | **Swing** | **Order No.** | **Price** |
| - | Capacity-Up to 12" Swing | **GG55740100** | Price |
| - | Capacity-10 to 15" Swing | **GG55740200** | Price |
| - | Capacity-13 to 18" Swing | **GG55740300** | Price |
| - | Capacity-14 to 20" Swing | **GG55740400** | Price |

| Description - Wedge Type Tool Post | | | |
|---|---|---|---|
| **Tool Cap.** | **Swing** | **Order No.** | **Price** |
| - | Capacity-Up to 12" Swing | **GG55740111** | Price |
| - | Capacity-10 to 15" Swing | **GG55740222** | Price |
| - | Capacity-13 to 18" Swing | **GG55740333** | Price |
| - | Capacity-14 to 20" Swing | **GG55740444** | Price |

**Piston Type Tool Post:**
- Instant changing from one operation to another.
- A knurled nut on each tool holder provides for exact height adjustment, entirely eliminating the use of shims.



**Wedge Type Tool Post:**
- Wedge type tool posts are precision engineered to assure repetitive accuracy.



**Interchangable with Aloris, Yuasa, and Phase II:**
- All working parts hardened & ground
- Maximum rigidity for chatter-free performance
- No time wasted with shims
- Increases productivity of all lathe operations
- Completely sealed for maintenance-free operation
- Change tools in seconds

**No. 1 Turning and Facing Tool Holder:**
- Takes various sizes of bits
- Turning and facing tools can be locked in together



**No. 2 Boring, Turning and Facing Tool Holder:**
- "V" groove holds round shank boring bars and tools, as well as square tool bits



**No. 4 & No. 41 Larger Capacity Heavy Duty Boring Bar Tool Holder:**
- Equipped with a split bushing to accommodate a boring bar of smaller diameter



**No. 5 & No. 53 Larger Taper Morse Taper Tool Holder:**
- Drills with carriage by using power feed instead of tailstock



**No. 7 Universal Parting Blade Tool Holder:**
- For bevel as well as T-cut Blades
- Enables you to cut-off close to chuck



**No. 10 Knurling, Facing and Turning Tool Holder:**
- For turning and facing, as well as knurling
- Supplied with a set of high speed medium diamond knurls

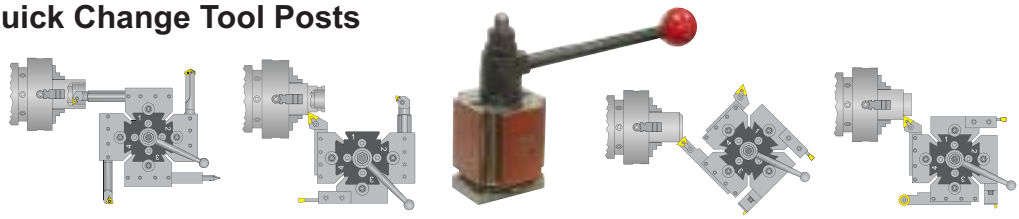


## Tool Posts & Holders (Sets)

| | | Capacity-Up to 12" Swing | | Capacity-10 to 15" Swing | | Capacity-13 to 18" Swing | | Capacity-14 to 20" Swing | |
|---|---|---|---|---|---|---|---|---|---|
| **Holders Included** | **Description** | **Order No.** | **Price** | **Order No.** | **Price** | **Order No.** | **Price** | **Order No.** | **Price** |
| Numbers 1, 2, 4, 7 & 10 | Piston Type Set | **GG55741100** | Price | **GG55741200** | Price | **GG55741300** | Price | **GG55741400** | Price |
| Numbers 1, 2, 4, 7 & 10 | Wedge Type Set | **GG55741111** | Price | **GG55741222** | Price | **GG55741333** | Price | **GG55741444** | Price |

## Quadra® Indexing Quick Change Tool Posts

- 4 Tool Holders Lock Simultaneously
- Indexing repeatability of .000005”
- Toolholder locking repeatability of .0001”
- Ideal for prototype or high production
- Ideal for roughing and finishing
- Indexes every 15°
- Quick and Versatile for any operation



| Lathe Swing Over Bed (in.) | A (in.) | B (in.) | D (in.) | T-Tool Capacity (in.) | Optimum C.H. (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| Up to 12 | 2.500 | 2.570 | .500 | 1/2 to 3/4 | 1.422 | **GG35QITP25** | Price |
| 13 to 15 | 3.000 | 3.205 | .500 | 5/8 to 1 | 1.747 | **GG35QITP30** | Price |
| 16 to 20 | 4.000 | 4.070 | .750 | 1 to 1-1/4 | 2.202 | **GG35QITP40** | Price |
| 17 to 32 | 5.000 | 5.230 | 1.000 | 1-1/4 to 1-1/2 | 2.995 | **GG35QITP50** | Price |
| Over 25 XHD | 6.000 | 5.615 | 1.125 | 1-1/2 | 3.440 | **GG35QITP60** | Price |

## Super Quick Change Standard Sets

- (1) Tool Post
- (4) Holders
- Tooling Not Included



| Lathe Swing (in.) | Set Includes | Order No. | Price |
|---|---|---|---|
| Up to 12 | Tool Post: SDN25AXA, Holders; D25AXA-1, D25AXA-2, D25AXA-4-CNC, D25 AXA-7-71C | **GG35SDN25AXASS** | Price |
| 13 to 15 | Tool Post; SDN30BXA, Holders; D30BXA-1, D30BXA-2, D30BXA-4-CNC, D30BXA-7-71C | **GG35SDN30BXASS** | Price |
| 14 to 17 | Tool Post; SDN35CXA, Holders; D35CXA-1, D35CXA-2, D35CXA-4-CNC, D35CXA-7-71C | **GG35SDN35CXASS** | Price |
| 16 to 20 | Tool Post; SDN40CA, Holders; D40CA-1, D40CA-2, D40CA-4-CNC, D40CA-7-71C | **GG35SDN40CASS** | Price |
| 17 to 32 | Tool Post; SDN50DA, Holders; D50DA-1, D50DA-2, D50DA-4-CNC, D50DA-7-71C | **GG35SDN50DASS** | Price |
| Over 25 | Tool Post; SDN60EA, Holders; D60EA-1, D60EA-2, D60EA-4-CNC, D60EA-7-71C | **GG35SDN60EASS** | Price |

## Super Quick Change Tool Post First Time Buyers Sets

- Zero Backlash
- Triple Action Wedge Style Locking System
- Precise Repeatability within .0001”
- 15° Locking Handle Position Adjustment
- Fully interchangeable with most industry standard tool posts

MADE IN THE USA



**Super Quick Change Tool Post First Time Buyers Set Includes:**

- Tool Post
- #1 Turning & Facing Holder
- #2 Turning, Facing & Boring Holder
- #7-71C Cut-Off Holder
- #881 Threading & Grooving Holder
- Also includes 1 Square Shank Tool, 1 Boring Bar, 1 Cut-off Blade, 1 Internal Threading Bar, and 5 inserts

**Tooling & Carbide Inserts Included**

| Lathe Swing (in.) | Set Includes | Order No. | Price |
|---|---|---|---|
| Up to 12 | No. 1, 2, 7-71C, 881 | **GG35SD25AXAFTB** | Price |
| 13 to 15 | No. 1, 2, 7-71C, 881 | **GG35SD30BXAFTB** | Price |

| Lathe Swing (in.) | Set Includes | Order No. | Price |
|---|---|---|---|
| 14 to 17 | No. 1, 2, 7-71C, 881 | **GG35SD35CXAFTB** | Price |
| 16 to 20 | No. 1, 2, 7-71C, 881 | **GG35SD40CAFTB** | Price |

**F.O.B. Factory**

## Quadra Index Tool Post First Time Buyer Sets

### For the Relentless Machinist Pursuing High Productivity and Accuracy

- Maintenance Free
- Absolute Zero Backlash
- Four Quick Change Tool Holders Locked Simultaneously
- Repetitive Accuracy within Millionths
- Patented Locking System Eliminates the Traditional Worm Gear and Gib



**Quadra Index Tool Post First Time Buyers Set Includes:**

- Tool Post
- #1 Turning & Facing Holder
- #2 Turning, Facing & Boring Holder
- # 7-71C Cut-Off Holder
- #881 Threading & Grooving Holder
- Also includes 1 Square Shank Tool, 1 Boring Bar, 1 Cut-off Blade, 1 Internal Threading Bar, and 5 inserts

**Tooling & Carbide Inserts Included**

| Swing (in.) | Set Includes | Order No. | Price |
|---|---|---|---|
| 13 to 15 | No. 1, 2, 7-71C, 881 | **GG35QITP30FTB** | Price |
| 14 to 17 | No. 1, 2, 7-71C, 881 | **GG35QITP35FTB** | Price |

| Swing (in.) | Set Includes | Order No. | Price |
|---|---|---|---|
| 16 to 20 | No. 1, 2, 7-71C, 881 | **GG35QITP40FTB** | Price |
| Up to 12 | No. 1, 2, 7-71C, 881 | **GG35QITP25FTB** | Price |

## Triple Action Wedge Lock Tool Posts



- Zero backlash
- Precise repeatablity within .0001
- 15° Locking handle position adjustment
- Industry standard interchangeable holders

| Swing (in.) | A (in.) | B (in.) | D (in.) | T - Tool Capacity (in.) | Optimum C.H. (in.) | Thread | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 25 & Up | 6.000 | 5.000 | 1.125 | 1-1/2 | 3.000 | 1-1/8-12 | **GG35SD60EA** | Price |
| Up to 12 | 2.625 | 2.500 | .500 | 1/2 - 3/4 | 1.250 | 1/2-20 | **GG35SD25AXA** | Price |
| 13 to 15 | 3.000 | 2.750 | .625 | 5/8 - 1 | 1.312 | 5/8-18 | **GG35SD30BXA** | Price |
| 14 to 17 | 3.500 | 3.250 | .750 | 3/4 - 1 | 1.625 | 3/4-16 | **GG35SD35CXA** | Price |
| 16 to 20 | 4.000 | 3.750 | .875 | 1 - 1-1/4 | 1.937 | 7/8-14 | **GG35SD40CA** | Price |
| 17 to 32 | 5.000 | 4.625 | 1.000 | 1-1/4 - 1-1/2 | 2.562 | 1-14 | **GG35SD50DA** | Price |

## Triple Action Wedge-Lock System

| Description - 5C Collet Holder | | | | |
|---|---|---|---|---|
| **Item** | **Tool Cap. (in.)** | **Series** | **Order No.** | **Price** |
|  | 5C Collet | D25AXA | **GG35D25AXA36** | Price |
| | 5C Collet | D30BXA | **GG35D30BXA36** | Price |
| | 5C Collet | D35CXA | **GG35D35CXA36** | Price |
| | 5C Collet | D40CA | **GG35D40CA36** | Price |

| Description - Dovetail Drill Chuck Holder | | | | |
|---|---|---|---|---|
| **Item** | **Tool Cap. (in.)** | **Series** | **Order No.** | **Price** |
|  | 0 - 12 | D25AXA | **GG35D25AXA35** | Price |
| | 0 - 12 | D30BXA | **GG35D30BXA35** | Price |
| | 0 - 12 | D35CXA | **GG35D35CXA35** | Price |
| | 0 - 12 | D40CA | **GG35D40CA35** | Price |

| Description - Extra HD Cut-Off Blade Toolholder | | | | |
|---|---|---|---|---|
| **Item** | **Tool Cap. (in.)** | **Series** | **Order No.** | **Price** |
|  | 19-2 Blade | D25AXA | **GG35D25AXA771C** | Price |
| | 19-2 Blade | D30BXA | **GG35D30BXA771C** | Price |
| | 26-2 to 26-6 Blades | D35CXA | **GG35D35CXA771C** | Price |
| | 26-2 to 26-6 Blades | D40CA | **GG35D40CA771C** | Price |
| | 32-3 to 32-9 Blades | D50DA | **GG35D50DA771C** | Price |
| | 32-3 to 32-9 Blades | D60EA | **GG35D60EA771C** | Price |

| Description - Extra Heavy Duty Boring | | | | |
|---|---|---|---|---|
| **Item** | **Tool Cap. (in.)** | **Series** | **Order No.** | **Price** |
|  | 1-1/4 | D35CXA | **GG35D35CXA41** | Price |
| | 1-1/2 | D40CA | **GG35D40CA41** | Price |
| | 2 | D50DA | **GG35D50DA41** | Price |
| | 2-1/2 | D60EA | **GG35D60EA41** | Price |

| Description - Heavy Duty Boring | | | | |
|---|---|---|---|---|
| **Item** | **Tool Cap. (in.)** | **Series** | **Order No.** | **Price** |
|  | 3/4 | D25AXA | **GG35D25AXA4** | Price |
| | 1 | D30BXA | **GG35D30BXA4** | Price |
| | 1 | D35CXA | **GG35D35CXA4** | Price |
| | 1-1/4 | D40CA | **GG35D40CA4** | Price |
| | 1-1/2 | D50DA | **GG35D50DA4** | Price |

| Description - ID & OD Threading | | | | |
|---|---|---|---|---|
| **Item** | **Tool Cap. (in.)** | **Series** | **Order No.** | **Price** |
|  | OnEdge | D25AXA | **GG35D25AXA881** | Price |
| | OnEdge | D30BXA | **GG35D30BXA881** | Price |
| | OnEdge | D35CXA | **GG35D35CXA881** | Price |
| | OnEdge | D40CA | **GG35D40CA881** | Price |

| Description - Morse Taper | | | | |
|---|---|---|---|---|
| **Item** | **Tool Cap. (in.)** | **Series** | **Order No.** | **Price** |
|  | 4 MT | D35CXA | **GG35D35CXA5** | Price |
| | 4 MT | D40CA | **GG35D40CA5** | Price |
| | 5 MT | D50DA | **GG35D50DA5** | Price |
| | 5 MT | D60EA | **GG35D60EA5** | Price |

| Description - Turning & Facing | | | | |
|---|---|---|---|---|
| **Item** | **Tool Cap. (in.)** | **Series** | **Order No.** | **Price** |
|  | 1/2 to 3/4 | D25AXA | **GG35D25AXA1** | Price |
| | 5/8 to 1 | D30BXA | **GG35D30BXA1** | Price |
| | 3/4 to 1 | D35CXA | **GG35D35CXA1** | Price |
| | 1 to 1-1/4 | D40CA | **GG35D40CA1** | Price |
| | 1-1/4 to 1-1/2 | D50DA | **GG35D50DA1** | Price |
| | 1-1/2 | D60EA | **GG35D60EA1** | Price |

| Description - Turning, Facing & Boring | | | | |
|---|---|---|---|---|
| **Item** | **Tool Cap. (in.)** | **Series** | **Order No.** | **Price** |
|  | 1/2 to 3/4 | D25AXA | **GG35D25AXA2** | Price |
| | 5/8 to 1 | D30BXA | **GG35D30BXA2** | Price |
| | 3/4 to 1 | D35CXA | **GG35D35CXA2** | Price |
| | 1 to 1-1/4 | D40CA | **GG35D40CA2** | Price |
| | 1-1/4 to 1-1/2 | D50DA | **GG35D50DA2** | Price |
| | 1-1/2 | D60EA | **GG35D60EA2** | Price |

## Modular Knurling Tools

**Cutting Type:**
- Exerts less pressure on the part
- Creates chips
- Runs at higher speeds and feeds than forming type knurling tools
- Use sharp corner knurl wheels
- For diamond patterns only

**Forming Type:**
- Exerts a lot of pressure on the part
- Displaces material to form the knurl
- Straddle type pinches the material with top and bottom wheels and eliminates side pressure
- Ideal for long slender, thin walled, unsupported or poorly supported parts; or whenever part deflection due to side pressure is a concern
- On all forming type knurling tools use beveled edge knurl wheels

**Warnings:**
- **SCKN, SSCK, SWFKT & HDSWFKT** - May cause deflections on small part diameters, and too much pressure on large diameters
- **KTW109 (Heavy Duty & Shoulder)** - This tool has the capability to adjust the wheels until they touch, but physically applying a knurl on small diameters may not be possible
- **KTO109-40 & KTW109-40** - Physically applying a knurl on small diameters may not be possible

**Style - Double Wheel Forming - Diameter Range Greater than 5/16" Includes - Set of Beveled diagonal high speed beveled TiN coated knurl wheels, 25 TPI for a male diamond pattern**

| Item | Description | Model No. | Shank Size | Knurl Wheel Type | Knurl Pin Set No. | Order No. | Price |
|---|---|---|---|---|---|---|---|
|  | CNC-75-4-M | 20646 | 3/4 | M | GG35KPS31125C | **GG35CNC754M** | Price |
| | CNC-100-4-M | 20648 | 1 | M | GG35KPS31125C | **GG35CNC1004M** | Price |
| | CNC-125-4-M | 20650 | 1-1/4 | M | GG35KPS31125C | **GG35CNC1254M** | Price |

**Style - Extra Heavy Duty 60° Diamond Cutting - Diameter Range Greater than 2" Includes - Set of Full Face straight high speed TiN coated knurl wheels, 25 TPI for a male diamond pattern**

| Item | Description | Model No. | Shank Size | Knurl Wheel Type | Knurl Pin Set No. | Order No. | Price |
|---|---|---|---|---|---|---|---|
|  | CNC-75-3-M | 20610 | 3/4 | MS | GG35KPS31100C | **GG35CNC753M** | Price |
| | CNC-100-3-M | 20620 | 1 x 1 | MS | GG35KPS31100C | **GG35CNC1003M** | Price |
| | CNC-125-3-M | 20630 | 1-1/4 | MS | GG35KPS31100C | **GG35CNC1253M** | Price |

**Style - Heavy Duty 60° Diamond Cutting - Diameter Range 1" to 5" Includes - Set of Full Faced straight high speed knurl wheels, 25 TPI for a male diamond pattern**

| Item | Description | Model No. | Shank Size | Knurl Wheel Type | Knurl Pin Set No. | Order No. | Price |
|---|---|---|---|---|---|---|---|
|  | CNC-75-2-R | 20510 | 3/4 | RS | GG35KPS2587C | **GG35CNC752R** | Price |
| | CNC-100-2-R | 20520 | 1 | RS | GG35KPS2587C | **GG35CNC1002R** | Price |
| | CNC-125-2-R | 20530 | 1-1/4 | RS | GG35KPS2587C | **GG35CNC1252R** | Price |

**Style - KTO109-40 - Heavy Duty Style Straddle Square Shank Includes - Set of Beveled diagonal high speed TiN coated knurl wheels for a male diamond pattern, 25 TPI**

| Item | Description | Model No. | Shank Size | Knurl Wheel Type | Knurl Pin Set No. | Order No. | Price |
|---|---|---|---|---|---|---|---|
|  | KTO109-100-40-P | 22869 | 1 x 4 | O* | - | **GG35KTO10910040** | Price |
| | KTO109-25-40-O | 22870 | 1-1/4 x 4 | O* | - | **GG35KTO10912540** | Price |

**Style - KTW109 - Heavy Duty Style Straddle Square Shank Includes - Set of Beveled diagonal high speed TiN coated knurl wheels for a male diamond pattern, 25 TPI**

| Item | Description | Model No. | Shank Size | Knurl Wheel Type | Knurl Pin Set No. | Order No. | Price |
|---|---|---|---|---|---|---|---|
|  | KTW109-100-15-M | 22816 | 1 x 1-1/2 | M* | - | **GG3522816** | Price |
| | KTW109-100-25-M | 22824 | 1 x 2-1/2 | M* | - | **GG35KTW10910025** | Price |
| | KTW109-125-15-M | 22818 | 1-1/4 x 1-1/2 | M* | - | **GG35KTW10912515** | Price |
| | KTW109-125-25-M | 22826 | 1-1/4 x 2-1/2 | M* | - | **GG35KTW10901252** | Price |
| | KTW109-75-15-M | 22814 | 3/4 x 1-1/2 | M* | - | **GG35KTW1097515M** | Price |
| | KTW109-75-25-M | 22823 | 3/4 x 2-1/2 | M* | - | **GG35KTW1097525M** | Price |

**Style - KTW109 - Shoulder Style Straddle Square Shank Forming Includes - Set of Beveled diagonal high speed TiN coated knurl wheels for a male diamond pattern, 25 TPI**

| Item | Description | Model No. | Shank Size | Knurl Wheel Type | Knurl Pin Set No. | Order No. | Price |
|---|---|---|---|---|---|---|---|
|  | KTW109-100-15-4 | 22833 | 1 x 1-1/2 | SW4* | - | **GG35KTW10910015** | Price |
| | KTW109-125-25-4 | 22843 | 1-1/4 x 2-1/2 | SW4* | - | **GG35KTW10912525** | Price |
| | KTW109-75-15-4 | 22832 | 3/4 x 1-1/2 | SW4* | - | **GG35KTW10975154** | Price |
| | KTW109-75-25-4 | 22841 | 3/4 x 2-1/2 | SW4* | - | **GG35KTW10975254** | Price |

**Style - KTW109-40 - Shoulder Style Straddle Square shank Includes - Set of Beveled diagonal high speed TiN coated knurl wheels for a male diamond pattern, 25 TPI**

| Item | Description | Model No. | Shank Size | Knurl Wheel Type | Knurl Pin Set No. | Order No. | Price |
|---|---|---|---|---|---|---|---|
|  | KTW109-100-40-4 | 22873 | 1 x 4 | SW4* | - | **GG35KTW10910040** | Price |
| | KTW109-125-40-4 | 22874 | 1-1/4 x 4 | SW4* | - | **GG35KTW10912540** | Price |

**Style - Light Duty 60° Diamond Cutting - Diameter Range 1/2" to 1-1/2" Includes - Set of Full Faced straight high speed TiN coated knurl wheels, 30 TPI for a male diamond pattern**

| Item | Description | Model No. | Shank Size | Knurl Wheel Type | Knurl Pin Set No. | Order No. | Price |
|---|---|---|---|---|---|---|---|
|  | CNC-75-1-2 | 20410 | 3/4 | SW2S | GG35PSW20S | **GG35CNC7512** | Price |
| | CNC-100-1-2 | 20420 | 1 | SW2S | GG35PSW20S | **GG35CNC10012** | Price |
| | CNC-125-1-2 | 20430 | 1-1/4 | SWS2 | GG35PSW20S | **GG35CNC12512** | Price |

## Modular Knurling Tools (cont.)

| Style - SCKN - Self Centering Includes - Set of beveled diagonal high speed knurl wheels, 30TIP*, 25 TPI** | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | Description | Model No. | Shank Size | Knurl Wheel Type | Knurl Pin Set No. | Order No. | Price |
|  | SCKN-125-DW-M | 22141 | 1-1/4 | M** | GG35KPS31100 | **GG35SCK125M** | Price |
| | SCKN-162-DW-D | 22115 | 5/8 | D* | GG35KPS1850 | **GG35SCKN162DWD** | Price |
| | SCKN-38-DW-D | 22151 | 3/8 | D* | GG35KPS1850 | **GG35SCKN38DWD** | Price |
| | SCKN-75-DW-M | 22121 | 3/4 | M** | GG35KPS1850 | **GG35SCK75M** | Price |
| | SCKN-100-DW-M | 22131 | 1 | M** | GG35KPS31100 | **GG35SCK100M** | Price |
| | SCKN-50-DW-D | 22111 | 1/2 | D* | GG35KPS1850 | **GG35SCK50D** | Price |

| Style - Shoulder Forming - Diameter Range Greater than 5/16" Includes - Set of Beveled diagonal high speed beveled TiN coated knurl wheels, 25 TPI for a male diamond pattern | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | Description | Model No. | Shank Size | Knurl Wheel Type | Knurl Pin Set No. | Order No. | Price |
|  | CNC-75-6-4 | 20780 | 3/4 | SW4 | GG35SW4OP2S | **GG35CNC7564** | Price |
| | CNC-100-6-4 | 20790 | 1 x 1 | SW4 | GG35SW4OP2S | **GG35CNC10064** | Price |
| | CNC-125-6-4 | 20800 | 1-1/4 | SW4 | GG35SW4OP2S | **GG35CNC12564** | Price |

| Style - Single Wheel Forming - Unlimited Diameter Range Includes - One Beveled straight high speed beveled TiN coated knurl wheel, 25 TPI for a straight pattern | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | Description | Model No. | Shank Size | Knurl Wheel Type | Knurl Pin Set No. | Order No. | Price |
|  | CNC-100-5-O | 20720 | 1 | O | GG35KPS31125C | **GG35CNC1005O** | Price |
| | CNC-125-5-O | 20730 | 1-1/4 | O | GG35KPS31125C | **GG35CNC1255O** | Price |
| | CNC-75-5-O | 20710 | 3/4 | O | GG35KPS31125C | **GG35CNC755O** | Price |

| Style - SSCK - Shoulder Self Centering Includes - Set of Beveled diagonal high speed TiN coated knurl wheels, 30 TPI*, 25 TPI** | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | Description | Model No. | Shank Size | Knurl Wheel Type | Knurl Pin Set No. | Order No. | Price |
|  | SSCK-125-DW-4 | 22260 | 1-1/4 | SW4** | GG35SW40P2S | **GG35SSCK1254** | Price |
| | SSCK-162-DW-2 | 22218 | 5/8 | SW2* | GG35SW20P2S | **GG35SSCK162DW2** | Price |
| | SSCK-38-DW-2 | 22210 | 3/8 | SW2* | GG35SW20P2S | **GG35SSCK382** | Price |
| | SSCK-50-DW-2 | 22220 | 1/2 | SW2* | GG35SW20P2S | **GG35SSCK502** | Price |
| | SSCK-75-DW-4 | 22240 | 3/4 | SW4** | GG35SW40P2S | **GG35SSCK754** | Price |
| | SSCK-100-DW-4 | 22250 | 1 | SW4** | GG35SW40P2S | **GG35SSCK1004** | Price |

| Style - Straddle Forming - Diameter Range up to 1" Includes - Set of Beveled diagonal high speed beveled TiN coated knurl wheels, 30 TPI for a male diamond pattern | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | Description | Model No. | Shank Size | Knurl Wheel Type | Knurl Pin Set No. | Order No. | Price |
|  | CNC-75-7-R | 20910 | 3/4 | R | GG35KPS2562C | **GG35CNC757R** | Price |
| | CNC-100-7-R | 20920 | 1 x 1 | R | GG35KPS2562C | **GG35CNC1007R** | Price |
| | CNC-125-7-R | 20930 | 1-1/4 | R | GG35KPS2562C | **GG35CNC1257R** | Price |

| Style - SWFKT & HDSWFKT - Single Wheel Fixed Forming Includes - One straight high speed beveled TiN coated knurl wheel, 30 TIP*, 25 TPI** | | | | | | | |
|---|---|---|---|---|---|---|---|
| Item | Description | Model No. | Shank Size | Knurl Wheel Type | Knurl Pin Set No. | Order No. | Price |
|  | DWFKT-38-D | 21720 | 3/8 | D* | GG35KPS1850 | **GG35SWFKT38D** | Price |
| | HDSWFKT-75-O | 21810 | 3/4 | O** | GG35KPS31100C | **GG3521810** | Price |
| | SWFKT-125-O | 21760 | 1-1/4 | O** | GG3528950 | **GG35SWFTK125O** | Price |
| | SWFKT-162-D | 21765 | 5/8 | D* | GG3528950 | **GG3521765** | Price |
| | SWFKT-50-D | 21730 | 1/2 | D* | GG35KPS1850 | **GG35SWFKT50D** | Price |
| | SWFKT-75-M | 21740 | 3/4 | M** | GG35KPS3175 | **GG35SWFKT75M** | Price |
| | SWFKT-100-O | 21750 | 1 x 1 | O** | GG35KPS3175 | **GG35SWFKT100O** | Price |

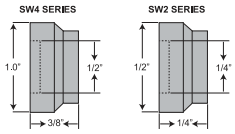
## Replacement Knurl Pin Sets

| Knurling Tool | Order No. | Price |
|---|---|---|
| GG35-CNC752R, GG35-CNC1002R, GG35-CNC1252R | **GG35KPS2587C** | Price |
| GG35-CNC753M, GG35-CNC1003M, GG35-CNC1253M | **GG35KPS31100C** | Price |
| GG35-CNC7564, GG35-CNC10064, GGET-CNC12564, GG35-SSCK754, GG35-SSCK1004 | **GG35SW40P2S** | Price |
| GG35-CNC757R, GGET-CNC1007R, GG35-CNC1257R | **GG35KPS2562C** | Price |
| GG35-SCK100M, GG35-3SHKT75M, GG35-3SHKT100M | **GG35KPS31100** | Price |
| GG35-SSCK502 | **GG35SW20P2S** | Price |
| GG35-SWFKT50D, GG35-SCK50D, GG35-3SHKT50D | **GG35KPS1850** | Price |
| GG35-SWFKT75M, GG35-SWFKT100O, GG35-SCK75M | **GG35KPS3175** | Price |

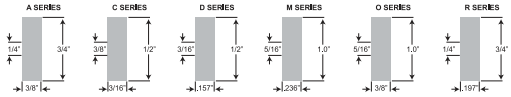
# Knurls

MADE IN THE USA








- "SW" knurling wheels are technically designed to knurl against a square shoulder
- With super precise workmanship, the wheels are made of heat treated High Cobalt Steel to withstand severe knurling operation
- Knurl wheels are Titanium Nitrating coated to reduce the co-efficient of friction when knurling, increasing the quality and the force of knurling as well as the life of the knurl wheels
- All SW Series knurl wheels are available only in cobalt and tin coated
- Tools Used On "SW2" Series: SCNC-37, 50, 162-1-2, CNC-75, 100, 125-1-2, SCNC-37K, 50, 162-6-2, SCNCKH-1-2, SCNCKH-6-2, CNCKH-1-2, SSCK38-2, SSCK-50-2
- Tools Used On "SW4" Series: SSCK-75-4, SSCK-100-4, SSCK-125-4, KTW109-75-2-4, KTW109-100-2-4, KTW109-100-3-4, KTW109-125-3-4
- Circular Pitch Knurls are made to extremely high standards from the finest materials available
- Knurls are individually hob cut and lapped to a smooth hard finish to give longer life and impart a smooth clean surface to the knurled part
- Knurls available in High Speed, Cobalt, TIC/N - Coated, beveled, and diametral pitch
- Tools Used On "D" Series: SCNC-37-7-D, SCNC-50-7-D, SCNC-162-7-3, SCNCKH-7-D, 3SHKT-50-D, 3SHKT-162-D, SCK5-50-D
- Tools Used On "M" Series: CNC-75, 100, 125-3-M, CNCKH-3-M, SCK-75, 100, 125-M, 3SHKT-75, 100, 125-M
- Tools Used On "O" Series: CNC-75-5-O, CNC-100-5-O, CNC-125-5-O, CNCKH-5-O
- Tools Used On "R" Series: CNC-75-2-4, CNC-100-2-4, CNC-125-2-4, CNCKH-2, CNC-75-7, CNC-100-7, CNC-125-7

**Series - D**

| | | Diagonal Left Circular | | Diagonal Right Circular | | Straight Circular | |
|---|---|---|---|---|---|---|---|
| Teeth Per In. TPI | Material | Order No. | Price | Order No. | Price | Order No. | Price |
| 16 | Cobalt | GG35DDL16CB | Price | GG35DDR16CB | Price | - | - |
| 16 | High Speed Steel | GG35DDL16HS | Price | GG35DDR16HS | Price | - | - |
| - | - | GG35DDL20HS | Price | GG35DDR20HS | Price | - | - |
| 25 | Cobalt | GG35DDL25CB | Price | GG35DDR25CB | Price | GG35DS25C | Price |
| 25 | High Speed Steel | GG35DDL25HS | Price | GG35DDR25HS | Price | GG35DS25HS | Price |
| 30 | Cobalt | GG3525143 | Price | GG3525089 | Price | GG35DS30C | Price |
| 30 | High Speed Steel | GG35DDL30HS | Price | GG35DDR30HS | Price | GG35DS30HS | Price |
| - | - | - | - | - | - | GG35DS35C | Price |
| 35 | High Speed Steel | GG35DDL35HS | Price | GG35DDR35HS | Price | - | - |
| 40 | High Speed Steel | GG35DDL40HS | Price | GG35DDR40HS | Price | - | - |

**Series - M**

| | | Diagonal Left Circular | | Diagonal Right Circular | | Straight Circular | |
|---|---|---|---|---|---|---|---|
| Teeth Per In. TPI | Material | Order No. | Price | Order No. | Price | Order No. | Price |
| 12 | Cobalt | GG35MDL12CB | Price | GG35MDR12CB | Price | GG35MS12C | Price |
| 12 | High Speed Steel | GG35MDL12HS | Price | GG35MDR12HS | Price | GG35MS12HS | Price |
| 14 | Cobalt | GG35MDL14CB | Price | GG35MDR14CB | Price | GG35MS14C | Price |
| 14 | High Speed Steel | GG35MDL14HS | Price | GG35MDR14HS | Price | GG35MS14HS | Price |
| 16 | Cobalt | GG35MDL16CB | Price | GG35MDR16CB | Price | GG35MS16C | Price |
| 16 | High Speed Steel | GG3525474 | Price | GG3525408 | Price | GG35MS16HS | Price |
| 20 | Cobalt | GG3525477 | Price | GG35MDR20CB | Price | GG35MS20C | Price |
| - | - | GG35MDL20HS | Price | GG35MDR20HS | Price | - | - |
| 25 | Cobalt | GG3525479 | Price | GG3525413 | Price | GG35MS25C | Price |
| 25 | High Speed Steel | GG3525478 | Price | GG3525412 | Price | GG35MS25HS | Price |
| 30 | Cobalt | GG35MDL30CB | Price | GG35MDR30CB | Price | GG35MS30C | Price |
| 30 | High Speed Steel | GG35MDL30HS | Price | GG35MDR30HS | Price | GG35MS30HS | Price |
| 35 | High Speed Steel | - | - | - | - | GG35MS35HS | Price |

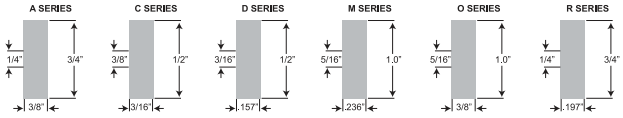
**Series - O**

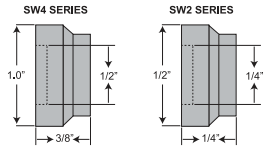
| | | Diagonal Left Circular | | Diagonal Right Circular | | Straight Circular | |
|---|---|---|---|---|---|---|---|
| Teeth Per In. TPI | Material | Order No. | Price | Order No. | Price | Order No. | Price |
| 12 | High Speed Steel | GG35ODL12HS | Price | GG35ODR12HS | Price | GG35OS12HS | Price |
| 14 | Cobalt | - | - | - | - | GG35OS14C | Price |
| 14 | High Speed Steel | - | - | - | - | GG35OS14HS | Price |
| 16 | Cobalt | - | - | - | - | GG35OS16C | Price |
| 16 | High Speed Steel | - | - | - | - | GG35OS16HS | Price |
| 20 | Cobalt | - | - | - | - | GG35OS20C | Price |
| - | - | GG35ODL20HS | Price | GG35ODR20HS | Price | GG35OS20HS | Price |
| 25 | Cobalt | GG35ODL25C | Price | GG35ODR25C | Price | GG35OS25C | Price |
| 25 | High Speed Steel | GG35ODL25HS | Price | GG35ODR25HS | Price | GG35OS25HS | Price |
| 30 | Cobalt | - | - | - | - | GG35OS30C | Price |
| 30 | High Speed Steel | - | - | - | - | GG35OS30HS | Price |
| - | - | - | - | - | - | GG35OS35C | Price |
| 35 | High Speed Steel | - | - | - | - | GG35OS35HS | Price |

## Knurls (cont.)

MADE IN THE USA






| Series - R | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Diagonal Left | | Diagonal Right | | Straight | |
| | | Circular | | Circular | | Circular | |
| Teeth Per In. TPI | Material | Order No. | Price | Order No. | Price | Order No. | Price |
| 12 | Cobalt | - | - | - | - | GG35RS12C | Price |
| 12 | High Speed Steel | - | - | - | - | GG35RS12HS | Price |
| 14 | Cobalt | - | - | - | - | GG35RS14C | Price |
| 14 | High Speed Steel | - | - | - | - | GG35RS14HS | Price |
| 16 | High Speed Steel | - | - | - | - | GG35RS16HS | Price |
| 16 | Cobalt | - | - | - | - | GG35RS16C | Price |
| 20 | Cobalt | - | - | - | - | GG35RS20C | Price |
| - | - | - | - | - | - | GG35RS20HS | Price |
| 25 | Cobalt | - | - | - | - | GG35RS25C | Price |
| 25 | High Speed Steel | GG35RDL25HSB | Price | - | - | - | - |
| 30 | Cobalt | - | - | - | - | GG35RS30C | Price |
| 30 | High Speed Steel | - | - | - | - | GG35RS30HS | Price |
| - | - | - | - | - | - | GG35RS35C | Price |
| 35 | High Speed Steel | - | - | - | - | GG35RS35HS | Price |
| - | - | - | - | - | - | GG35RS40C | Price |

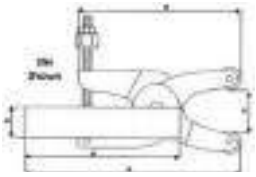
| Series - SW2 | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Diagonal Left | | Diagonal Right | | Straight | |
| | | Diametral | | Diametral | | Diametral | |
| Teeth Per In. TPI | Material | Order No. | Price | Order No. | Price | Order No. | Price |
| 16 | Cobalt | - | - | - | - | GG35SW2S16C | Price |
| 16 | High Speed Steel | - | - | - | - | GG35SW2S16HS | Price |
| 20 | Cobalt | GG35SW2L20CB | Price | GG35SW2R20CB | Price | GG35SW2S20C | Price |
| - | - | - | - | - | - | GG3527403 | Price |
| 25 | Cobalt | GG35SW2L25CB | Price | GG35SW2R25CB | Price | GG35SW2S25C | Price |
| 25 | High Speed Steel | GG35SW2L25HS | Price | GG35SW2R25HS | Price | GG35SW2S25HS | Price |
| 30 | Cobalt | GG35SW2L30CB | Price | GG35SW2R30CB | Price | GG35SW2S30C | Price |
| 30 | High Speed Steel | GG35SW2L30HS | Price | GG35SW2R30HS | Price | GG3527407 | Price |
| - | - | - | - | - | - | GG35SW2S35C | Price |
| - | - | - | - | - | - | GG35SW2S40C | Price |
| 40 | High Speed Steel | - | - | - | - | GG35SW2S40HS | Price |

| Series - SW4 | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Diagonal Left | | Diagonal Right | | Straight | |
| | | Diametral | | Diametral | | Diametral | |
| Teeth Per In. TPI | Material | Order No. | Price | Order No. | Price | Order No. | Price |
| 14 | Cobalt | GG35SW4L14CB | Price | GG35SW4R14CB | Price | GG35SW4S14C | Price |
| 14 | High Speed Steel | GG35SW4L14HS | Price | GG35SW4R14HS | Price | GG35SW4S14HS | Price |
| 16 | Cobalt | GG35SW4L16CB | Price | GG35SW4R16CB | Price | GG35SW4S16C | Price |
| 16 | High Speed Steel | GG35SW4L16HS | Price | GG35SW4R16HS | Price | GG35SW4S16HS | Price |
| 20 | Cobalt | GG35SW4L20CB | Price | GG35SW4R20CB | Price | GG35SW4S20C | Price |
| - | - | GG3528140 | Price | GG3528086 | Price | GG3528005 | Price |
| 25 | Cobalt | GG3528143 | Price | GG3528089 | Price | GG35SW4S25C | Price |
| 25 | High Speed Steel | GG3528142 | Price | GG3528088 | Price | GG3528007 | Price |
| 30 | Cobalt | GG35SW4L30CB | Price | GG35SW4R30CB | Price | GG35SW4S30C | Price |
| 30 | High Speed Steel | GG3528144 | Price | GG3528090 | Price | GG35SW4S30HS | Price |
| - | - | - | - | - | - | GG35SW4S35C | Price |
| - | - | - | - | - | - | GG35SW4S40C | Price |
| 40 | High Speed Steel | - | - | - | - | GG35SW4S40HS | Price |

## EAGLE ROCK The "New" Generation of Wettstein™ USA Scissor Type Knurling Tools

- Machine: Manual or CNC Lathe
- Capacity: 0-2-1/8"
- Knurl size: Style E 3/4" x 3/8" x 1/4"
- Knurl patterns: Straight (2 knurls AA) Diamond, Male (1 knurl BL, 1 knurl BR)
- Knurls included: 1 Set (1 knurl BL and 1 knurl BR) Medium pitch, Diamond pattern)





| Shank Style - Center | | | | | |
|---|---|---|---|---|---|
| Shank Size (a) (in.) | Shank Length (c) (in.) | OAL (d) (in.) | f (in.) | Order No. | Price |
| 5/8 | 3 | 6 | 3 | **GG40A1440625CE** | Price |

| Shank Style - Left Hand | | | | | |
|---|---|---|---|---|---|
| Shank Size (a) (in.) | Shank Length (c) (in.) | OAL (d) (in.) | f (in.) | Order No. | Price |
| 5/8 x 5/8 | 3 | 6 | 3 | **GG40A1440625LE** | Price |
| 3/4 x 3/4 | 5 | 7 | 3 | **GG40A1440750LE** | Price |
| 1 x 1 | 5 | 7 | 3 | **GG40A1441000LE** | Price |

| Shank Style - Right Hand | | | | | |
|---|---|---|---|---|---|
| Shank Size (a) (in.) | Shank Length (c) (in.) | OAL (d) (in.) | f (in.) | Order No. | Price |
| 5/8 x 5/8 | 3 | 6 | 3 | **GG40A1440625RE** | Price |
| 3/4 x 3/4 | 5 | 7 | 3 | **GG40A1440750RE** | Price |
| 1 x 1 | 5 | 7 | 3 | **GG40A1441000RE** | Price |

| Shank Style - Round | | | |
|---|---|---|---|
| Shank Size (a) (in.) | f (in.) | Order No. | Price |
| 3/4 | 7 | **GG40A1440750DE** | Price |
| 1 | 7 | **GG40A1441000DE** | Price |

## EAGLE ROCK Bump Type A1-30 Solid & Round Shank Knurling Tools

**A1-30 Solid, 1 Pc., CNC Shank Bump Type Knurling Tool:**

- Our exclusive offset shank allows for virtually no turret overhang of the knurls
- Since the knurl head is on the side of the holder, you can insert the tool in your turret with as little (or as much) overhang as you want
- Head is self-centering to accommodate for any misalignment
- Includes one set of a Medium pitch, Diamond pattern (BL and BR) knurls



**A1-30 Round CNC Shank Bump Type Knurling Tool:**

- Head is self-centering to accommodate for any misalignment
- Can also be used for Internal Knurling
- Includes one set of Medium pitch, Diamond pattern (BL and BR) knurls

| Shank Style - Left Hand | | | | |
|---|---|---|---|---|
| Shank Size (in.) | Knurl Wheel Size (in.) | OAL (in.) | Order No. | Price |
| 1/2 x 1 | B-1/2 x 3/16 x 3/16 | 5-3/4 | **GG40A1300500LB** | Price |
| 5/8 x 5/8 | C-5/8 x 1/4 x 1/4 | 5-3/4 | **GG40A1300625LC** | Price |
| 3/4 x 3/4 | E-3/4 x 3/8 x 1/4 | 5-3/4 | **GG40A1300750LE** | Price |
| 1 x 1 | E-3/4 x 3/8 x 1/4 | 5-3/4 | **GG40A1301000LE** | Price |

| Shank Style - Right Hand | | | | |
|---|---|---|---|---|
| Shank Size (in.) | Knurl Wheel Size (in.) | OAL (in.) | Order No. | Price |
| 1/2 x 1 | B-1/2 x 3/16 x 3/16 | 5-3/4 | **GG40A1300500RB** | Price |
| 5/8 x 5/8 | C-5/8 x 1/4 x 1/4 | 5-3/4 | **GG40A1300625RC** | Price |
| 3/4 x 3/4 | E-3/4 x 3/8 x 1/4 | 5-3/4 | **GG40A1300750RE** | Price |
| 1 x 1 | E-3/4 x 3/8 x 1/4 | 5-3/4 | **GG40A1301000RE** | Price |

| Shank Style - Round | | | | |
|---|---|---|---|---|
| Shank Size (in.) | Knurl Wheel Size (in.) | OAL (in.) | Order No. | Price |
| 1/2 | B-1/2 x 3/16 x 3/16 | 6 | **GG40A1300500B** | Price |
| 5/8 | C-5/8 x 1/4 x 1/4 | 6 | **GG40A1300625C** | Price |
| 3/4 | E-3/4 x 3/8 x 1/4 | 7 | **GG40A1300750E** | Price |
| 1 | E-3/4 x 3/8 x 1/4 | 7 | **GG40A1301000E** | Price |
| 1-1/4 | E-3/4 x 3/8 x 1/4 | 7 | **GG40A1301250E** | Price |
| 1-1/2 | E-3/4 x 3/8 x 1/4 | 7 | **GG40A1301500E** | Price |

## EAGLE ROCK Bump Type Knurling Tool With CNC Shanks

- Available in either left or right hand shanks
- Each holder includes on medium pitch, straight (AA) pattern knurl



| | | | Left | | Right | |
|---|---|---|---|---|---|---|
| Shank Size (in.) | Knurl Wheel Size (in.) | OAL (in.) | Order No. | Price | Order No. | Price |
| 5/16 x 3/8 | A-5/16 x 5/32 x 1/8 | 5 | **GG40A1290312LA** | Price | **GG40A1290312RA** | Price |
| 3/8 x 3/8 | A-5/16 x 5/32 x 1/8 | 3 | **GG40A1290375LA** | Price | **GG40A1290375RA** | Price |
| 1/2 x 1/2 | B-1/2 x 3/16 x 3/16 | 3-1/2 | **GG40A1290500LB** | Price | **GG40A1290500RB** | Price |
| 5/8 x 5/8 | C-5/8 x 1/4 x 1/2 | 4 | **GG40A1290625LC** | Price | **GG40A1290625RC** | Price |
| 3/4 x 3/4 | E-3/4 x 3/8 x 1/4 | 4-1/2 | **GG40A1290750LE** | Price | **GG40A1290750RE** | Price |
| 3/4 x 1 | G-3/4 x 1/2 x 1/4 | 4-1/2 | **GG40A1290750LG** | Price | **GG40A1290750RG** | Price |
| 1 x 1 | E-3/4 x 3/8 x 1/4 | 6 | **GG40A1291000LE** | Price | **GG40A1291000RE** | Price |
| 1 x 1 | K-1 x 3/8 x 5/16 | 6 | **GG40A1291000LK** | Price | **GG40A1291000RK** | Price |
| 1 x 1-1/4 | J-1-1/4 x 1/2 x 1/2 | 6 | **GG40A1291000LJ** | Price | **GG40A1291000RJ** | Price |

## EAGLE ROCK Swivel Head with 2 Knurls

- The A1-71 is arguably one of the most popular knurling tools in the world
- Guaranteed to outlive and outperform any of the imported knockoffs
- Each A1-71 includes (1) set Medium pitch, Diamond pattern (BL and BR) knurls

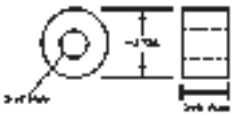


| Shank Size (in.) | Knurl Wheel Size | Order No. | Price |
|---|---|---|---|
| 5/16 x 3/4 | AJ- 5/8 x 5/16 x 7/32 | **GG40A1710750AJ** | Price |
| 3/8 x 7/8 | AJ- 5/8 x 5/16 x 7/32 | **GG40A1710875AJ** | Price |
| 1/2 x 1-1/8 | E- 3/4 x 3/8 x 1/4 | **GG40A1711125E** | Price |
| 5/8 x 1-3/8 | E- 3/4 x 3/8 x 1/4 | **GG40A1711375E** | Price |
| 7/8 x 1-3/4 | K- 1 x 3/8 x 5/16 | **GG40A1711750K** | Price |

## Circular Pitch Knurls

- The circular Pitch Knurl System is the older system and has been in use many years
- The spacing of the teeth is measured by the number of teeth per inch (TPI) around the circumference
- Knurling can be done with many types of holders made for knurling or with any holder (or machine) made for thread rolling

### EP Series



Right Hand 

Left Hand 

Straight 

| | | Left Hand Spiral | | Right Hand Spiral | | Straight | |
|---|---|---|---|---|---|---|---|
| Teeth Per Inch | Included Tooth Angle (deg.) | Order No. | Price | Order No. | Price | Order No. | Price |
| 16 | 90 | **SE40EPL216** | Price | **SE40EPR216** | Price | **SE40EPS216** | Price |
| 20 | 90 | **SE40EPL220** | Price | **SE40EPR220** | Price | **SE40EPS220** | Price |
| 25 | 90 | **SE40EPL225** | Price | **SE40EPR225** | Price | **SE40EPS225** | Price |
| 30 | 90 | **SE40EPL230** | Price | **SE40EPR230** | Price | **SE40EPS230** | Price |
| 35 | 90 | **SE40EPL235** | Price | **SE40EPR235** | Price | **SE40EPS235** | Price |

### KP Series



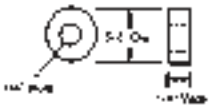
Right Hand 

Left Hand 

Straight 

| | | Left Hand Spiral | | Right Hand Spiral | | Straight | |
|---|---|---|---|---|---|---|---|
| Teeth Per Inch | Included Tooth Angle (deg.) | Order No. | Price | Order No. | Price | Order No. | Price |
| 12 | 90 | **SE40KPL212** | Price | **SE40KPR212** | Price | **SE40KPS212** | Price |
| 14 | 90 | **SE40KPL214** | Price | **SE40KPR214** | Price | **SE40KPS214** | Price |
| 16 | 90 | **SE40KPL216** | Price | **SE40KPR216** | Price | **SE40KPS216** | Price |
| 20 | 90 | **SE40KPL220** | Price | **SE40KPR220** | Price | **SE40KPS220** | Price |
| 21 | 90 | **SE40KPL221** | Price | **SE40KPR221** | Price | **SE40KPS221** | Price |
| 25 | 90 | **SE40KPL225** | Price | **SE40KPR225** | Price | **SE40KPS225** | Price |
| 30 | 90 | **SE40KPL230** | Price | **SE40KPR230** | Price | **SE40KPS230** | Price |
| 33 | 90 | **SE40KPL233** | Price | **SE40KPR233** | Price | **SE40KPS233** | Price |
| 35 | 90 | **SE40KPL235** | Price | **SE40KPR235** | Price | **SE40KPS235** | Price |
| 40 | 90 | **SE40KPL240** | Price | **SE40KPR240** | Price | **SE40KPS240** | Price |

### GK Series



Right Hand 

Left Hand 

Straight 

| | | Left Hand Spiral | | Right Hand Spiral | | Straight | |
|---|---|---|---|---|---|---|---|
| Teeth Per Inch | Included Tooth Angle (deg.) | Order No. | Price | Order No. | Price | Order No. | Price |
| 12 | 90 | **SE40GKL212** | Price | **SE40GKR212** | Price | **SE40GKS212** | Price |
| 16 | 90 | **SE40GKL216** | Price | **SE40GKR216** | Price | **SE40GKS216** | Price |
| 20 | 90 | **SE40GKL220** | Price | **SE40GKR220** | Price | **SE40GKS220** | Price |
| 25 | 90 | **SE40GKL225** | Price | **SE40GKR225** | Price | **SE40GKS225** | Price |
| 30 | 90 | **SE40GKL230** | Price | **SE40GKR230** | Price | **SE40GKS230** | Price |
| 35 | 90 | **SE40GKL235** | Price | **SE40GKR235** | Price | **SE40GKS235** | Price |
| 40 | 90 | **SE40GKL240** | Price | **SE40GKR240** | Price | **SE40GKS240** | Price |

## Model 14 - Tool Post Grinder with Integral Spindle 1/4HP

### Internal & External Grinding Capabilities

MADE IN THE USA

- Designed specifically for internal and external grinding on home-shop lathes
- Supplied with 1/8" chuck mounted wheels, pulley, belt, mounting post, tee-bolt, wheel collars, general purpose wheels and steel carrying case
- For lathes up to 7" swing
- Grinding speeds 10,000 RPM and 22,500 RPM
- External grinding capacity 1/8" - 2" diameter wheels
- Internal grinding capacity: 1/2" min., 2-1/4" max depth
- Tool Post Grinder complete, 115 V AC/DC



| Order No. | Price |
|---|---|
| **RL9514011** | Price |

## External & Internal Grinding Kit

**Kit Includes:**

- Tool post grinder
- 8 Insert Spindles: 5T-200, TX, TC, 5N-158, TN-3, TN-4, TN-5 & TN-6
- 3 External grinding wheels
- 4 Mounted wheels
- 2 Internal grinding wheels
- Diamond wheel dresser
- Pulleys
- Belts
- Carrying case

MADE IN THE USA



| Motor | Order No. | Price |
|---|---|---|
| 1/2 HP | **RL955750T** | Price |
| 3/4 HP | **RL955775T** | Price |

## External Grinding Kit

**Kit Includes:**

- Tool post grinder
- External 5X-350 grinding spindle
- 3 General purpose grinding wheels
- Diamond wheel dresser
- Pulleys
- Belts
- Carrying case

MADE IN THE USA



| Motor | Order No. | Price |
|---|---|---|
| 1/2 HP | **RL955750X** | Price |
| 3/4 HP | **RL955775X** | Price |

## Model 12 - Tool Post Grinder with Interchangeable Spindle - 1HP

MADE IN THE USA

- A natural for large heavy work and continuous operation
- Interchangeable spindles for external and internal grinding avaible
- 8” Diameter wheel capacity
- Flat-belt drive, vertical spindle adjustment
- Comes with pulleys, flat-belts, belt guard, mounting post, T-bolt, wheel guard and diamond dresser
- For lates with 20” or larger swing



| Description | Order No. | Price |
|---|---|---|
| 115V, 60Hz, Single Phace, AC Only | **RL9512011†** | Price |
| 220/440V, 50/60 Hz, 3PH, AC Only | **RL9512022†** | Price |

## Model 57 - Tool Post Grinder with Interchangeable Spindle - 1/2HP & 3/4HP

- 6” Diameter external grinding wheel
- Internal grinding up to 18” deep at 1-7/8” diameter
- Comes with belts, pulleys, belt guard, T-bolt, mounting post, diamond dresser, wrench set and carrying case
- For lathes with swings from 9” to 20”

MADE IN THE USA



| Style | Order No. | Price |
|---|---|---|
| 1/2 HP Induction Motor, 115V, 60 Hz, AC Only | **RL9557021** | Price |
| 3/4 HP Univeral Motor, 115V, AC/DC | **RL9557031** | Price |

## Model 25 - Tool Post Grinder with Interchangeable Spindle - 3HP

MADE IN THE USA

- Handles large external and surface grinding jobs by coverting any standard machine tool into a big capacity grinder
- Mounts on lathes 20” or larger, heavy duty milling machines, planers, boring mills, etc.
- Equipped with built-in magnetic starter, overload protector and grease-sealed bearings
- Holds up to 12” diameter wheels
- For internal grinding uses Series 12 spindles



| Style | Order No. | Price |
|---|---|---|
| 220V, 50/60 Hz, 3PH, AC Only | **RL9525022‡** | Price |

## Tool Post Spindles

- SPINDLE SELECTOR CHART (Must be ordered separately for Model 12, 25 & 57 Grinders)
- When ordering 12N internal and 12X external spindles for the Model 25 Grinder, order Adapter Kit Order No. 858-0035. Kit contains correct belts and pulleys.
- When ordering 25X external spindles for the Model 12 Grinder, order Adapter Kit Order No. 858-0034. Kit contains correct belts, pulleys and 12” wheel guard.

| Type - External Spindle | | | | | | |
|---|---|---|---|---|---|---|
| Style | For Grinder Series | Max. Recommended Speed | Max. Wheel Size | Wheel Bore | Order No. | Price |
| 2-BRG. EXT. | 12 & 25 | 8000 | 8 | .750 | **RL9512X350** | Price |
| 2-BRG. EXT. | 25 | 4000 | 12 | 1.250 | **RL9525X250** | Price |
| 2-BRG. EXT. | 57 | 15000 | - | 1.250 | **RL955X450** | Price |
| 2-BRG. EXT. | 57 | 15000 | 6 | .500 | **RL955X350** | Price |

| Type - Insert Spindle | | | | | | |
|---|---|---|---|---|---|---|
| Style | For Grinder Series | Max. Recommended Speed | Max. Wheel Size | Wheel Bore | Order No. | Price |
| - | 57 | 42500 | - | - | **RL955T200** | Price |
| Insert | 5T-200 | 15000 | 1 | .125 | **RL95TN4** | Price |
| Insert | 5T-200 | 15000 | 1 | .125 | **RL95TN6** | Price |
| Insert | 5T-200 | 15000 | 5 | .375 | **RL95TX** | Price |

| Type - Insert Spindle | | | | | | |
|---|---|---|---|---|---|---|
| Style | For Grinder Series | Max. Recommended Speed | Max. Wheel Size | Wheel Bore | Order No. | Price |
| Insert | 5T-200 | 32500 | 1-1/2 | .250 | **RL95TN158** | Price |
| Insert | 5T-200 | 42500 | 3/4 | 1/8 & 1/4 Shanks | **RL95TC** | Price |

| Type - Internal Spindle | | | | | | |
|---|---|---|---|---|---|---|
| Style | For Grinder Series | Max. Recommended Speed | Max. Wheel Size | Wheel Bore | Order No. | Price |
| 3-BRG. INT. | - | 8000 | 5 | .500 | **RL9512N308** | Price |
| 3-BRG. INT. | 57 | 15000 | 2-1/2 | .375 | **RL955N309** | Price |
| 3-BRG. INT. | 57 | 15000 | 2-1/2 | .375 | **RL955N315** | Price |

## Dumore Grinding Wheels

- General-purpose, for steels of hardness up to Rockwell C-45 (Other grades available for non-ferrous, stainless and for steels of RC-45 and higher. Price on Application)

| Dia. (in.) | Thickness (in.) | Arbor Hole (in.) | Recess | Grit | Order No. | Price |
|---|---|---|---|---|---|---|
| 5/8 | 1/4 | 1/8 | 1/4 x 1/8 | 60 | **RL957740005** | Price |
| 3/4 | 1/4 | 1/8 | 1/4 x 1/8 | 60 | **RL957740008** | Price |
| 3/4 | 1/2 | 1/4 | - | 46 | **RL957740010** | Price |
| 1 | 1/4 | 1/8 | 1/4 x 1/8 | 60 | **RL957740018** | Price |
| 1 | 1/4 | 1/4 | - | 46 | **RL957740019** | Price |
| 1 | 1 | 1/4 | 1/2 x 3/8 | 46 | **RL957740021** | Price |
| 1-1/4 | 1/4 | 1/4 | - | 46 | **RL957740024** | Price |
| 1-1/2 | 1/4 | 1/4 | - | 46 | **RL957740029** | Price |
| 1-1/2 | 1/2 | 1/4 | 5/8 x 1/4 | 46 | **RL957740031** | Price |
| 1-1/2 | 1 | 1/4 | 5/8 x 3/8 | 46 | **RL957740034** | Price |
| 2 | 1/4 | 1/4 | - | 54 | **RL957740040** | Price |
| 2 | 1/4 | 1/4 | - | 80 | **RL957740041** | Price |
| 2 | 3/8 | 3/8 | - | 46 | **RL957740047** | Price |
| 2 | 3/8 | 3/8 | - | 61 | **RL957740046** | Price |
| 2 | 1/2 | 3/8 | - | 54 | **RL957740050** | Price |
| 2 | 1 | 3/8 | 1-1/4 x 1/2 | 46 | **RL957740053** | Price |
| 2-1/2 | 1/4 | 1/4 | - | 46 | **RL957740061** | Price |
| 2-1/2 | 3/8 | 3/8 | - | 46 | **RL957740065** | Price |
| 2-1/2 | 1/2 | 1/2 | - | 46 | **RL957740066** | Price |



| Dia. (in.) | Thickness (in.) | Arbor Hole (in.) | Recess | Grit | Order No. | Price |
|---|---|---|---|---|---|---|
| 3 | 3/8 | 3/8 | - | 46 | **RL957740073** | Price |
| 3 | 1/2 | 3/8 | - | 46 | **RL957740078** | Price |
| 3 | 1/2 | 1/2 | - | 46 | **RL957740213** | Price |
| 3 | 3/4 | 1/2 | - | 46 | **RL957740083** | Price |
| 3 | 1 | 3/8 | 2 x 1/2 | 46 | **RL957740086** | Price |
| 4 | 1/2 | 3/8 | - | 46 | **RL957740098** | Price |
| 4 | 1/2 | 1/2 | - | 46 | **RL957740103** | Price |
| 5 | 3/8 | 3/8 | - | 46 | **RL957740110** | Price |
| 5 | 1/2 | 3/8 | - | 46 | **RL957740111** | Price |
| 5 | 1/2 | 1/2 | - | 46 | **RL957740117** | Price |
| 6 | 1/2 | 1/2 | - | 46 | **RL957740126** | Price |

## RAPIDHOLD™ Toolholder CNC Bushings

- **C Style Tool Holder Bushing:** Elongated slot, universal style, designed to fit all types of Set-screw configurations
- **J Style Tool Holder Bushing:** Two hole style requires precise alignment of set screws
- **B Style Tool Holder Bushing:** Split style, shorter length, clamp on flat; bushing collapses to hold tool
- **CV Style VDI Tool Holder Bushing:** Designed to fit the form E2 VDI boring bar holder
- Clearance holes to clamp directly on the tool
- Used to adapt drills, boring bars, and other tools


B Style


C Style


CV Style

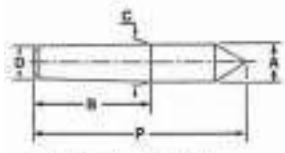

J Style

| | | B | | C | | CV | | DD | | J | | Z | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Outside Dia. (in) | Inside Dia. (in.) | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 3/4 | 3/8 | - | - | RH2180166 | Price | - | - | - | - | - | - | - | - |
| 3/4 | 1/2 | - | - | RH2180167 | Price | - | - | - | - | - | - | - | - |
| 1 | 3/8 | - | - | RH2180168 | Price | - | - | - | - | - | - | - | - |
| 1 | 1/2 | RH2180115 | Price | RH2180169 | Price | - | - | - | - | RH2180240 | Price | - | - |
| 1 | 5/8 | RH2180116 | Price | RH2180170 | Price | - | - | - | - | RH2180241 | Price | - | - |
| 1 | 3/4 | RH2180117 | Price | RH2180171 | Price | - | - | - | - | RH2180242 | Price | - | - |
| 1-1/4 | 1/4 | - | - | - | - | RH2180220 | Price | - | - | - | - | - | - |
| 1-1/4 | 3/8 | RH2180118 | Price | RH2180172 | Price | RH2180221 | Price | - | - | RH2180243 | Price | RH21Z1250375 | Price |
| 1-1/4 | 1/2 | RH2180119 | Price | RH2180173 | Price | RH2180222 | Price | - | - | RH2180244 | Price | RH21Z1250500 | Price |
| 1-1/4 | 5/8 | RH2180120 | Price | RH2180174 | Price | RH2180223 | Price | - | - | RH2180245 | Price | RH21Z1250625 | Price |
| 1-1/4 | 3/4 | RH2180121 | Price | RH2180175 | Price | RH2180224 | Price | - | - | RH2180246 | Price | RH21Z1250750 | Price |
| 1-1/4 | 7/8 | RH2180122 | Price | RH2180176 | Price | RH2180225 | Price | - | - | RH2180247 | Price | RH21Z1250875 | Price |
| 1-1/4 | 1 | RH2180123 | Price | RH2180177 | Price | RH2180226 | Price | - | - | RH2180248 | Price | RH21Z1251000 | Price |
| 1-1/2 | 1/4 | - | - | - | - | RH2180227 | Price | - | - | - | - | - | - |
| 1-1/2 | 3/8 | RH2180124 | Price | RH2180178 | Price | RH2180228 | Price | RH21DD1500375 | Price | RH2180249 | Price | RH21Z1500375 | Price |
| 1-1/2 | 1/2 | RH2180125 | Price | RH2180179 | Price | RH2180229 | Price | RH21DD1500500 | Price | RH2180250 | Price | RH21Z1500500 | Price |
| 1-1/2 | 5/8 | RH2180126 | Price | RH2180180 | Price | RH2180230 | Price | RH21DD1500625 | Price | RH2180251 | Price | RH21Z1500625 | Price |
| 1-1/2 | 3/4 | RH2180127 | Price | RH2180181 | Price | RH2180231 | Price | RH21DD1500750 | Price | RH2180252 | Price | RH21Z1500750 | Price |
| 1-1/2 | 1 | RH2180129 | Price | RH2180183 | Price | RH2180233 | Price | RH21DD1501000 | Price | RH2180254 | Price | RH21Z1501000 | Price |
| 1-1/2 | 7/8 | RH2180128 | Price | RH2180182 | Price | RH2180232 | Price | RH21DD1500875 | Price | RH2180253 | Price | RH21Z1500875 | Price |
| 1-1/2 | 1-1/4 | RH2180130 | Price | RH2180184 | Price | RH2180234 | Price | RH21DD1501250 | Price | RH2180255 | Price | RH21Z1501250 | Price |
| 1-3/4 | 1/2 | RH2180131 | Price | RH2180185 | Price | - | - | RH21DD1750500 | Price | RH2180256 | Price | RH21Z1750500 | Price |
| 1-3/4 | 5/8 | RH2180132 | Price | RH2180186 | Price | - | - | RH21DD1750625 | Price | RH2180257 | Price | RH21Z1750625 | Price |
| 1-3/4 | 3/4 | RH2180133 | Price | RH2180187 | Price | - | - | RH21DD1750750 | Price | RH2180258 | Price | RH21Z1750750 | Price |
| 1-3/4 | 7/8 | RH2180134 | Price | RH2180188 | Price | - | - | RH21DD1750875 | Price | RH2180259 | Price | - | - |
| 1-3/4 | 1 | RH2180135 | Price | RH2180189 | Price | - | - | RH21DD1751000 | Price | RH2180260 | Price | RH21Z1751000 | Price |
| 1-3/4 | 1-1/4 | RH2180136 | Price | RH2180190 | Price | - | - | RH21DD1751250 | Price | RH2180261 | Price | RH21Z1751250 | Price |
| 1-3/4 | 1-1/2 | RH2180137 | Price | RH2180191 | Price | - | - | RH21DD1751500 | Price | RH2180262 | Price | - | - |
| 2 | 1/2 | RH2180138 | Price | RH2180192 | Price | - | - | RH21DD2000500 | Price | RH2180263 | Price | RH21Z2000500 | Price |
| 2 | 5/8 | RH2180139 | Price | RH2180193 | Price | - | - | RH21DD2000625 | Price | RH2180264 | Price | - | - |
| 2 | 3/4 | RH2180140 | Price | RH2180194 | Price | - | - | RH21DD2000750 | Price | RH2180265 | Price | RH21Z2000750 | Price |
| 2 | 7/8 | RH2180141 | Price | RH2180195 | Price | - | - | RH21DD2000875 | Price | RH2180266 | Price | RH21Z2000875 | Price |
| 2 | 1 | RH2180142 | Price | RH2180196 | Price | - | - | RH21DD2001000 | Price | RH2180267 | Price | RH21Z2001000 | Price |
| 2 | 1-1/4 | RH2180143 | Price | RH2180197 | Price | - | - | RH21DD2001250 | Price | RH2180268 | Price | RH21Z2001250 | Price |
| 2 | 1-1/2 | RH2180144 | Price | RH2180198 | Price | - | - | RH21DD2001500 | Price | RH2180269 | Price | RH21Z2001500 | Price |
| 2 | 1-3/4 | RH2180145 | Price | RH2180199 | Price | - | - | RH21DD2001750 | Price | RH2180270 | Price | - | - |
| 2-1/2 | 1/2 | RH2180146 | Price | RH2180200 | Price | - | - | - | - | RH2180271 | Price | - | - |
| 2-1/2 | 5/8 | RH2180147 | Price | RH2180201 | Price | - | - | - | - | RH2180272 | Price | - | - |
| 2-1/2 | 3/4 | RH2180148 | Price | RH2180202 | Price | - | - | RH21DD2500750 | Price | RH2180273 | Price | - | - |
| 2-1/2 | 7/8 | RH2180149 | Price | RH2180203 | Price | - | - | RH21DD2500875 | Price | RH2180274 | Price | - | - |
| 2-1/2 | 1 | RH2180150 | Price | RH2180204 | Price | - | - | RH21DD2501000 | Price | RH2180275 | Price | - | - |
| 2-1/2 | 1-1/4 | RH2180151 | Price | RH2180205 | Price | - | - | RH21DD2501250 | Price | RH2180276 | Price | - | - |
| 2-1/2 | 1-1/2 | RH2180152 | Price | RH2180206 | Price | - | - | RH21DD2501500 | Price | RH2180277 | Price | - | - |
| 2-1/2 | 1-3/4 | RH2180153 | Price | RH2180207 | Price | - | - | RH21DD2501750 | Price | RH2180278 | Price | - | - |
| 2-1/2 | 2 | RH2180154 | Price | RH2180208 | Price | - | - | RH21DD2502000 | Price | RH2180279 | Price | - | - |
| 2-1/2 | 2-1/4 | RH2180155 | Price | RH2180209 | Price | - | - | - | - | RH2180280 | Price | - | - |

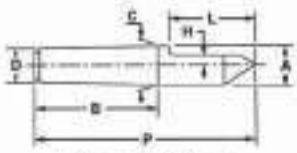
## High Speed & Carbide Tipped Dead Centers

- Accuracy guaranteed to ±.00005
- Through-harded to 61-63 Rc for extra reginds
- Carbide tipped dead centers are harrdened only on the knockout ends
- Riten full service, repair, and guarantee apply
- Applying a Moly EP632 grease on the point will reduce friction and wear

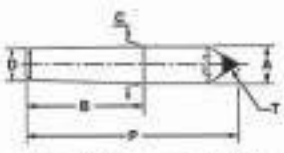




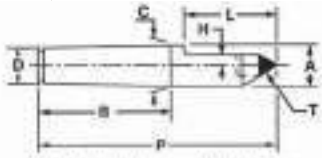
Style 1 - Steel Full Center



Style 2 - Steel Half Center



Style 3 - Carbide Tipped Full Center



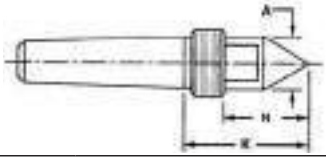
Style 4 - Carbide Tipped Half Center

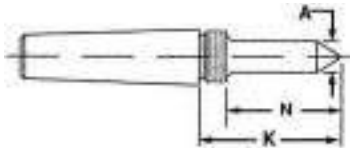
| Description - Morse Taper Style - Full | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Carbide Tipped | | High Speed | |
| Taper | P (in.) | B (in.) | C/A (in.) | D (in.) | T* (in.) | H (in.) | L (in.) | Order No. | Price | Order No. | Price |
| 1 MT | 3-5/16 | 2-1/8 | .475 | .369 | 1/4 | 1/8 | 1 | **HK2271013** | Price | **HK2271011** | Price |
| 2 MT | 4-3/16 | 2-9/16 | .700 | .572 | 3/8 | 3/16 | 1-3/8 | **HK2271023** | Price | **HK2271021** | Price |
| 3 MT | 5-1/4 | 3-3/16 | .938 | .778 | 1/2 | 1/4 | 1-11/16 | **HK2271033** | Price | **HK2271031** | Price |
| 4 MT | 6-3/4 | 4-1/16 | 1.231 | 1.020 | 1/2 | 1/4 | 2-1/4 | **HK2271043** | Price | **HK2271041** | Price |
| 5 MT | 8-1/2 | 5-3/16 | 1.748 | 1.475 | 5/8 | 3/8 | 2-3/4 | **HK2271053** | Price | **HK2271051** | Price |
| 6 MT | 11-1/2 | 7-1/4 | 2.494 | 2.116 | 7/8 | 1/2 | 3-1/2 | **HK2271063** | Price | **HK2271061** | Price |
| 7 MT | 15 | 10 | 3.270 | 2.750 | 1 | 3/4 | 4 | **-** | - | **HK2271071** | Price |

| Description - Morse Taper Style - Half | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Carbide Tipped | | High Speed | |
| Taper | P (in.) | B (in.) | C/A (in.) | D (in.) | T* (in.) | H (in.) | L (in.) | Order No. | Price | Order No. | Price |
| 1 MT | 3-5/16 | 2-1/8 | .475 | .369 | 1/4 | 1/8 | 1 | **HK2271014** | Price | **HK2271012** | Price |
| 2 MT | 4-3/16 | 2-9/16 | .700 | .572 | 3/8 | 3/16 | 1-3/8 | **HK2271024** | Price | **HK2271022** | Price |
| 3 MT | 5-1/4 | 3-3/16 | .938 | .778 | 1/2 | 1/4 | 1-11/16 | **HK2271034** | Price | **HK2271032** | Price |
| 4 MT | 6-3/4 | 4-1/16 | 1.231 | 1.020 | 1/2 | 1/4 | 2-1/4 | **HK2271044** | Price | **HK2271042** | Price |
| 5 MT | 8-1/2 | 5-3/16 | 1.748 | 1.475 | 5/8 | 3/8 | 2-3/4 | **HK2271054** | Price | **HK2271052** | Price |
| 6 MT | 11-1/2 | 7-1/4 | 2.494 | 2.116 | 7/8 | 1/2 | 3-1/2 | **HK2271064** | Price | **HK2271062** | Price |
| 7 MT | 15 | 10 | 3.270 | 2.750 | 1 | 3/4 | 4 | **-** | - | **HK2271072** | Price |

## High Speed Steel Tipped CNC Dead Centers

- Accuracy guaranteed to .0001 T.I.R.
- Through-hardened to 61-63 Rc.
- Works on all CNC machines.
- Meets the rigid requirements of CNC turning
- Riten full service, repair, and guarantee apply



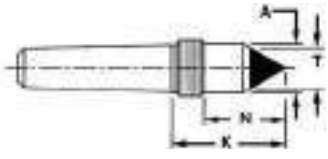



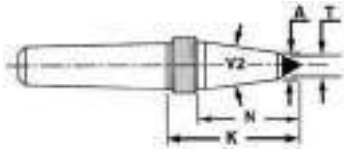

| Point Style - High Speed Type 1 | | | | | | |
|---|---|---|---|---|---|---|
| Taper | A (in.) | N (in.) | K (in.) | Threads | Order No. | Price |
| 2 MT | 3/8 | 1-1/4 | 1-11/16 | 7/8-14 | **HK2268102** | Price |
| 3 MT | 1/2 | 2 | 2-7/16 | 7/8-14 | **HK2268103** | Price |
| 3 MT | 3/4 | 2 | 2-7/16 | 7/8-14 | **HK2268123** | Price |
| 3 MT | 3/8 | 1-1/4 | 1-11/16 | 7/8-14 | **HK2268113** | Price |
| 4 MT | 1 | 2-1/4 | 2-7/8 | 1-1/8-12 | **HK2268124** | Price |
| 4 MT | 1/2 | 2 | 2-5/8 | 1-1/8-12 | **HK2268114** | Price |
| 4 MT | 5/8 | 2-1/4 | 2-7/8 | 1-1/8-12 | **HK2268104** | Price |
| 5 MT | 1/2 | 2 | 2-15/16 | 1-5/8-12 | **HK2268115** | Price |
| 5 MT | 1-1/4 | 2-1/2 | 3-7/16 | 1-5/8-12 | **HK2268125** | Price |
| 5 MT | 7/8 | 2-1/2 | 3-7/16 | 1-5/8-12 | **HK2268105** | Price |
| 6 MT | 1-3/4 | 3-11/16 | 5-5/16 | 2-1/2-12 | **HK2268106** | Price |

| Point Style - High Speed Type 2 | | | | | | |
|---|---|---|---|---|---|---|
| Taper | A (in.) | N (in.) | K (in.) | Threads | Order No. | Price |
| 3 MT | 1 | 1-5/8 | 2-3/8 | 1-1/8-12 | **HK2268603** | Price |
| 4 MT | 1-1/4 | 2-1/32 | 2-15/16 | 1-3/8-12 | **HK2268604** | Price |
| 5 MT | 1-3/4 | 2-15/32 | 3-5/8 | 1-7/8-12 | **HK2268605** | Price |
| 6 MT | 2-1/4 | 3-11/16 | 5-5/16 | 2-1/2-12 | **HK2268606** | Price |

## Carbide Tipped Morse Taper CNC Dead Centers

- Knockout ends are hardened on carbide tipped dead centers
- Applying a Moly EP632 grease on the point will reduce friction and wear
- Accuracy guaranteed to .0001 T.I.R.
- Meets the rigid requirements of CNC turning
- Works on all CNC machines
- Riten full service, repair, and guarantee apply




| Point Style - Carbide Tipped Type 3 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Taper | T* (in.) | A (in.) | N (in.) | K (in.) | V2 | Threads | Order No. | Price |
| 3 MT | 3/8 | 1/2 | 2 | 2-5/8 | 20 Degree | 1-1/8-12 | **HK2268923** | Price |
| 4 MT | 1/2 | 5/8 | 2-9/32 | 3-3/32 | 20 Degree | 1-3/8-12 | **HK2268924** | Price |
| 5 MT | 1/2 | 5/8 | 2-1/2 | 3-7/16 | 20 Degree | 1-5/8-12 | **HK2268925** | Price |

| Point Style - Carbide Tipped Type 4 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Taper | T* (in.) | A (in.) | N (in.) | K (in.) | V2 | Threads | Order No. | Price |
| 3 MT | 3/4 | 1 | 15/8 | 2-3/8 | - | 1-1/8-12 | **HK2268913** | Price |
| 4 MT | 1 | 1-1/4 | 2 | 2-29/32 | - | 1-3/8-12 | **HK2268914** | Price |
| 5 MT | 1-1/4 | 1-3/4 | 2- 1/2 | 3-21/32 | - | 1-7/8-12 | **HK2268915** | Price |

## CNC Dead Center Nuts

| Threads | Order No. | Price |
|---|---|---|
| 7/8-14 | **HK2281031** | Price |
| 1-1/8-12 | **HK2281041** | Price |
| 1-3/8-12 | **HK2286041** | Price |
| 1-5/8-12 | **HK2281051** | Price |
| 1-7/8-12 | **HK2286051** | Price |
| 2-1/2-12 | **HK2286061** | Price |

## Carbide Tipped Lathe Centers - Full Centers • Half Centers


Half Center

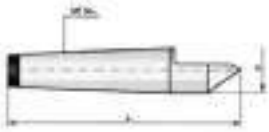

Full Center

| | | Full | | Half | |
|---|---|---|---|---|---|
| Taper | OAL (in.) | Order No. | Price | Order No. | Price |
| 1 MT | 3-5/16 | **GZ52M1** | Price | **GZ53MH1** | Price |
| 2 MT | 4-3/16 | **GZ52M2** | Price | **GZ53MH2** | Price |
| 3 MT | 5-1/4 | **GZ52M3** | Price | **GZ53MH3** | Price |
| 4 MT | 6-3/4 | **GZ52M4** | Price | **GZ53MH4** | Price |
| 5 MT | 8-1/2 | **GZ52M5** | Price | **GZ53MH5** | Price |
| 6 MT | 11-1/2 | **GZ52M6** | Price | - | - |

## Half Dead Centers

- T.I.R. 0.0002”
- Case hardened to 61-63HRC





New!



| Point Style - Carbide Tipped | | | | | |
|---|---|---|---|---|---|
| Taper | L (in.) | D (in.) | E (in.) | Order No. | Price |
| 1 MT | 3.15 | .48 | .28 | **HK313541001P** | Price |
| 2 MT | 3.94 | .71 | .28 | **HK313541002P** | Price |
| 3 MT | 4.92 | .95 | .43 | **HK313541003P** | Price |
| 4 MT | 6.30 | 1.24 | .55 | **HK313541004P** | Price |
| 5 MT | 7.87 | 1.76 | .71 | **HK313541005P** | Price |

| Point Style - Carbon Steel | | | | | |
|---|---|---|---|---|---|
| Taper | L (in.) | D (in.) | E (in.) | Order No. | Price |
| 2 MT | 3.94 | .71 | .28 | **HK313540002P** | Price |
| 3 MT | 4.92 | .95 | .43 | **HK313540003P** | Price |
| 4 MT | 6.30 | 1.24 | .55 | **HK313540004P** | Price |

## Lathe Centers

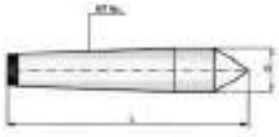
- 60° Point angle
- Precision made
- Hardened & ground to closest tolerances
- High speed steel



| Taper | OAL (in.) | Order No. | Price |
|---|---|---|---|
| 1 MT | 3-3/16 | **GZ51M1** | Price |
| 2 MT | 3-15/16 | **GZ51M2** | Price |
| 3 MT | 4-15/16 | **GZ51M3** | Price |
| 4 MT | 6-5/16 | **GZ51M4** | Price |
| 5 MT | 7-7/8 | **GZ51M5** | Price |
| 6 MT | 11 | **GZ51M6** | Price |

## Dead Centers

- T.I.R. 0.0002”
- Case hardened to 61-63HRC





New!



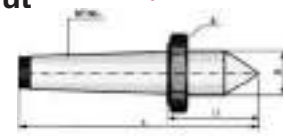
| - Ball Bearing Steel | | | | | |
|---|---|---|---|---|---|
| Taper | L (in.) | D (in.) | E (in.) | Order No. | Price |
| 1 MT | 3.15 | 0.48 | .28 | **HK313555005P** | Price |
| 2 MT | 3.94 | 0.71 | .28 | **HK313555010P** | Price |
| 3 MT | 4.92 | 0.95 | .43 | **HK313555015P** | Price |
| 4 MT | 6.3 | 1.24 | .55 | **HK313555020P** | Price |
| 5 MT | 7.87 | 1.76 | .71 | **HK313555025P** | Price |
| 6 MT | 10.63 | 2.51 | .71 | **HK313555030P** | Price |

| - Carbide Tipped | | | | | |
|---|---|---|---|---|---|
| Taper | L (in.) | D (in.) | E (in.) | Order No. | Price |
| 1 MT | 3.15 | 0.48 | .28 | **HK313550005P** | Price |
| 2 MT | 3.94 | 0.71 | .28 | **HK313550010P** | Price |
| 3 MT | 4.92 | 0.95 | .43 | **HK313550015P** | Price |
| 4 MT | 6.3 | 1.24 | .55 | **HK313550020P** | Price |
| 5 MT | 7.87 | 1.76 | .71 | **HK313550025P** | Price |
| 6 MT | 10.63 | 2.51 | .71 | **HK313550030P** | Price |

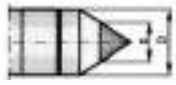
## Dead Centers with Nut

New!

- T.I.R. 0.0002”
- Case hardened to 61-63HRC
- Threaded and provided with the nut to remove the center from a tailstock





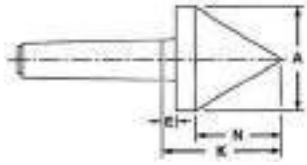


| Point Style - Alloy Steel | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mount | L (in.) | D (in.) | E (in.) | L1 (in.) | Threads | Order No. | Price |
| 3 MT | 5.43 | .95 | .43 | 1.95 | M27 x 1.5 Nut | **HK313545003P** | Price |
| 4 MT | 6.89 | 1.24 | .55 | 2.45 | M36 x 1.5 Nut | **HK313545004P** | Price |
| 5 MT | 8.54 | 1.76 | .71 | 3.05 | M48 x 1.5 Nut | **HK313545005P** | Price |
| 6 MT | 11.42 | 2.51 | .71 | 3.80 | M68 x 1.5 Nut | **HK313545006P** | Price |

| Point Style - Carbide Tipped | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mount | L (in.) | D (in.) | E (in.) | L1 (in.) | Threads | Order No. | Price |
| 3 MT | 5.43 | .95 | .43 | 1.95 | M27 x 1.5 Nut | **HK313546003P** | Price |
| 4 MT | 6.89 | 1.24 | .55 | 2.45 | M36 x 1.5 Nut | **HK313546004P** | Price |
| 5 MT | 8.54 | 1.76 | .71 | 3.05 | M48 x 1.5 Nut | **HK313546005P** | Price |
| 6 MT | 11.42 | 2.51 | .71 | 3.80 | M68 x 1.5 Nut | **HK313546006P** | Price |

## Morse Taper Pipe Nose Dead Centers

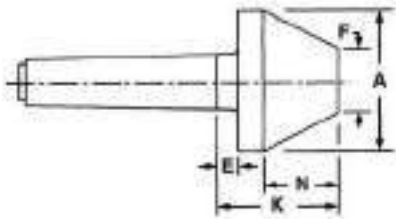
- Accuracy guaranteed to .0001 T.I.R.
- Through-hardened to 61-63 Rc.
- Riten full service, repair, and guarantee apply




| Taper | A (in.) | N (in.) | E (in.) | K (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 3 MT | 2-3/4 | 2.381 | 1/2 | 3.380 | **HK2266103** | Price |
| 4 MT | 2-3/4 | 2.381 | 1/2 | 3.380 | **HK2266104** | Price |
| 5 MT | 3-1/2 | 3.031 | 1/2 | 4.030 | **HK2266105** | Price |

## Morse Taper Bull Nose Dead Centers

- Guaranteed to .0001 T.I.R.
- Through-hardened to 61-63 Rc.
- Riten full service, repair, and guarantee apply

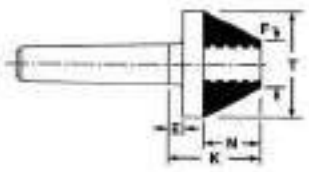



| Taper | A (in.) | F (in.) | N (in.) | E (in.) | K (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 2 MT | 2-1/8 | 1 | .974 | 1/2 | 1-31/32 | **HK2266602** | Price |
| 2 MT | 2-1/8 | 1/2 | 1.407 | 1/2 | 2-13/32 | **HK2266502** | Price |
| 3 MT | 2-3/4 | 1 | 1.515 | 1/2 | 2-33/64 | **HK2266603** | Price |
| 3 MT | 2-3/4 | 1/2 | 1.948 | 1/2 | 2-61/64 | **HK2266503** | Price |
| 3 MT | 2-3/4 | 1-1/2 | 1.082 | 1/2 | 2-5/64 | **HK2266703** | Price |
| 4 MT | 2-3/4 | 1 | 1.515 | 1/2 | 2-33/64 | **HK2266604** | Price |
| 4 MT | 2-3/4 | 1/2 | 1.948 | 1/2 | 2-15/16 | **HK2266504** | Price |
| 4 MT | 2-3/4 | 1-1/2 | 1.082 | 1/2 | 2-5/64 | **HK2266704** | Price |
| 5 MT | 3-1/2 | 1 | 2.165 | 1/2 | 3-11/64 | **HK2266505** | Price |
| 5 MT | 3-1/2 | 2 | 1.299 | 1/2 | 2-19/64 | **HK2266605** | Price |

## Fast Trak Special Carbide Bull Nose Dead Centers

- Accuracy guaranteed to.0001 T.I.R.
- Through-hardened to 61-63 Rc
- Other tapers available
- Both steel and carbide centers
- Hardened knockout ends
- Riten full service and repair
- Additional tapers and carbide tips are available from our semi-finished inventories

MADE IN THE USA

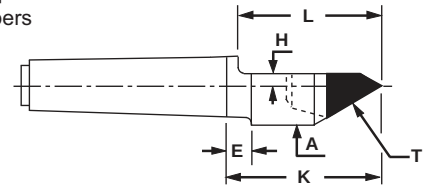





| Taper | T (in.) | F (in.) | N (in.) | E (in.) | K (in. ) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 3 MT | 1-3/4 | 3/4 | .87 | 1/2 | 1.86 | **HK2266901** | Price |
| 3 MT | 2 | 3/4 | 1.08 | 1/2 | 2.08 | **HK2266902** | Price |
| 3 MT | 2-1/2 | 1 | 1.30 | 1/2 | 2.30 | **HK2266903** | Price |
| 3 MT | 2-3/4 | 1 | 1.52 | 1/2 | 2.51 | **HK2266904** | Price |
| 4 MT | 1-3/4 | 3/4 | .87 | 1/2 | 1.86 | **HK2266905** | Price |
| 4 MT | 2 | 3/4 | 1.08 | 1/2 | 2.08 | **HK2266906** | Price |
| 4 MT | 2-1/2 | 1 | 1.30 | 1/2 | 2.30 | **HK2266907** | Price |
| 4 MT | 2-3/4 | 1 | 1.52 | 1/2 | 2.51 | **HK2266908** | Price |
| 5 MT | 1-3/4 | 3/4 | .87 | 1/2 | 2.64 | **HK2266909** | Price |
| 5 MT | 2 | 3/4 | 1.08 | 1/2 | 2.08 | **HK2266910** | Price |
| 5 MT | 2-1/2 | 1 | 1.30 | 1/2 | 2.30 | **HK2266911** | Price |
| 5 MT | 2-3/4 | 1 | 1.52 | 1/2 | 2.51 | **HK2266912** | Price |

## Large Carbide Point Imperial Half Dead Centers

- Accuracy guaranteed to ± .00005
- Covers the widest range of center hole sizes
- Eliminates the need for special centers
- Also availabe in other tapers

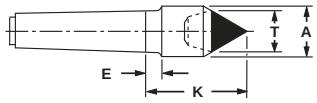





| Taper | H (in.) | L (in.) | Order No. | Price |
|---|---|---|---|---|
| 2 MT | 1/8 | 1-7/8 | **HK2269502** | Price |
| 3 MT | 1/8 | 1-11/16 | **HK2269503** | Price |
| 4 MT | 1/4 | 2-1/4 | **HK2269504** | Price |
| 5 MT | 1/4 | 2-3/4 | **HK2269505** | Price |

## Large Carbide Point Imperial Dead Centers

- Accuracy guaranteed to ±.00005
- Covers the widest range of center hole sizes
- Eliminates the need for special centers
- Increased center hole range
- Extra regrinds and longer wear
- Also available in other tapers



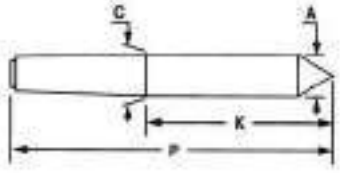



| Description - Morse Taper | | | | | | |
|---|---|---|---|---|---|---|
| Taper | T* (in.) | A (in.) | K (in.) | E (in.) | Order No. | Price |
| 2 MT | 15/16 | 1-3/16 | 2-3/8 | 3/8 | **HK2269102** | Price |
| 3 MT | 15/16 | 1-3/16 | 2-3/8 | 3/8 | **HK2269103** | Price |
| 4 MT | 1-1/4 | 1-3/4 | 2-11/16 | 1/2 | **HK2269104** | Price |
| 5 MT | 1-1/4 | 1-3/4 | 3-5/16 | - | **HK2269105** | Price |

***Carbide Diameter**

## Long Series Full Dead Centers - High Speed Steel

- Accuracy guaranteed to ± .00005
- Through-hardened to 61-63 Rc.
- Riten full service and repair
- Applying a Moly EP632 greas on the point will reduce friction and wear






| Description - Morse Taper | | | | | |
|---|---|---|---|---|---|
| Taper | P (in.) | K (in.) | C/A (in.) | Order No. | Price |
| 2 MT | 5-3/16 | 2-5/8 | .700 | **HK2264502** | Price |
| 2 MT | 6-3/4 | 4-3/16 | .700 | **HK2264602** | Price |
| 3 MT | 6-1/4 | 3-1/16 | .938 | **HK2264503** | Price |
| 3 MT | 6-3/4 | 3-9/16 | .938 | **HK2264603** | Price |
| 4 MT | 7-3/4 | 3-11/16 | 1.231 | **HK2264504** | Price |
| 4 MT | 8-1/4 | 4-3/16 | 1.231 | **HK2264604** | Price |
| 5 MT | 9-1/2 | 4-5/16 | 1.748 | **HK2264505** | Price |
| 5 MT | 10 | 4-3/16 | 1.748 | **HK2264605** | Price |
| 6 MT | 12-1/2 | 5-1/4 | 2.494 | **HK2264506** | Price |
| 6 MT | 13 | 5-3/4 | 2.494 | **HK2264606** | Price |

## Carriers for Grinding Machines & Light Lathes



- Made of malleable iron

| Individual Size (in.) | Order No. | Price |
|---|---|---|
| 1/4 | **SE51025** | Price |
| 3/8 | **SE51037** | Price |
| 1/2 | **SE51050** | Price |
| 5/8 | **SE51062** | Price |
| 3/4 | **SE51075** | Price |
| 1 | **SE51100** | Price |
| 1-1/4 | **SE51125** | Price |
| 1-1/2 | **SE51150** | Price |
| 1-3/4 | **SE51175** | Price |
| 2 | **SE51200** | Price |
| 2-1/2 | **SE51250** | Price |
| 3 | **SE51300** | Price |
| 3-1/2 | **SE51350** | Price |
| 4 | **SE51400** | Price |

## Grinding Carrier Sets



| Description | Sizes (in.) | Order No. | Price |
|---|---|---|---|
| Set of 6 Grinding Carriers | 1/4 to 1 | **SE51GD6** | Price |
| Set of 10 Grinding Carriers | 1/4 to 2 | **SE51GD10** | Price |

## Forged Lathe Dogs

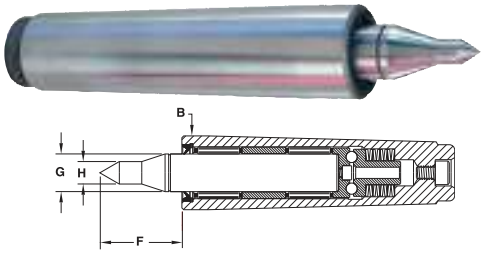
Available with bent dog or straight dog

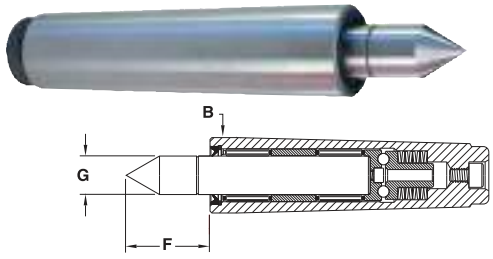


| Capacity (in.) | Order No. | Price |
|---|---|---|
| 1/2 | **SE52050** | Price |
| 3/4 | **SE52075** | Price |
| 1 | **SE52100** | Price |
| 1-1/4 | **SE52125** | Price |
| 1-1/2 | **SE52150** | Price |
| 1-3/4 | **SE52175** | Price |
| 2 | **SE52200** | Price |
| 2-1/2 | **SE52250** | Price |
| 3 | **SE52300** | Price |
| 4 | **SE52400** | Price |

## Spring Type Live Centers - Standard & CNC Point

- Unique spring-loaded point compensates for workpiece thermal expansion
- ±0.00005" TIR guaranteed
- Low-profile design provides outstanding tool clearance
- Heavy disc springs ensure that the point remains seated in the workpiece
- Point and shank are hardened for strength and durability




| Point Style - CNC | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Taper | B (in.) | Head Length-F (in.) | G (in.) | H (in.) | Spring Travel | Max. Suggested RPM | Weight of Workpiece | Thrust Load | Order No. | Price |
| 2 MT | .700 | 7/8 | 3/8 | 3/16 | 1/8 | 5000 | 150 lbs | 150 lbs | **HK2610532** | Price |
| 3 MT | .938 | 1-5/32 | 9/16 | 1/4 | 5/32 | 5000 | 260 lbs | 315 lbs | **HK2610533** | Price |
| 4 MT | 1.231 | 1-3/8 | 5/8 | 3/8 | 3/16 | 4500 | 580 lbs | 435 lbs | **HK2610534** | Price |
| 5 MT | 1.748 | 2 | 1-3/32 | 1/2 | 3/16 | 4500 | 1050 lbs | 785 lbs | **HK2610535** | Price |

| Point Style - Standard | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Taper | B (in.) | Head Length-F (in.) | G (in.) | H (in.) | Spring Travel | Max. Suggested RPM | Weight of Workpiece | Thrust Load | Order No. | Price |
| 2 MT | .700 | 7/8 | 3/8 | - | 1/8 | 5000 | 540 lbs | 150 lbs | **HK2610522** | Price |
| 3 MT | .938 | 1-5/32 | 9/16 | - | 5/32 | 5000 | 940 lbs | 315 lbs | **HK2610523** | Price |
| 4 MT | 1.231 | 1-3/8 | 5/8 | - | 3/16 | 4500 | 1400 lbs | 435 lbs | **HK2610524** | Price |
| 5 MT | 1.748 | 2 | 1-3/32 | - | 3/16 | 4500 | 2300 lbs | 785 lbs | **HK2610525** | Price |

## RAPIDHOLD™ Super Precision Live Center Sets, Heavy Duty

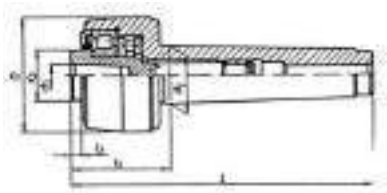


- Triple bearing heavy duty design
- All centers are provided with the precision bearings
- One piece body made of high quality of forged alloy steel, hardened to 60HRC and precisely ground
- Every set comes with the main body and 7 different shape inserts and ejecting wedge
- Complete with strong metal or plastic case
- .0002" T.I.R.

| Morse Taper No. | Head Dia. (in.) | Head Length (in.) | Max. RPM | Radial Load | OAL (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 2 MT | 1.417 | 2.700 | 5500 | 660 lbs | 4.331 | **HL2061011** | Price |
| 3 MT | 1.850 | 3.661 | 4500 | 880 lbs | 5.709 | **HL2061012** | Price |
| 4 MT | 2.165 | 4.094 | 4000 | 2640 lbs | 6.772 | **HL2061013** | Price |
| 5 MT | - | 5.295 | 3000 | 4400 lbs | 8.504 | **HL2061014** | Price |

## Live Center Sets

- Body of live centers and inserts are made of forgings, hardened and precisely ground
- Sets are provided with the main body and seven different style inserts in a wooden case
- Precision high quality bearings
- Special sealing ring protects the bearings from coolant and dust
- Inserts are easily interchangeable



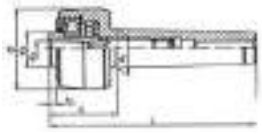


| Morse Taper | Max. RPM | Weight w/o Insert (Approx.) | Accuracy | Radial Load | L (in.) | L1 (in.) | L2 (in.) | D (in.) | d1 (in.) | d2 (in.) | d3 (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 MT | 5000 | .98 lbs | .0002 | 220 lbs | 4.055 | 1.540 | .177 | 1.570 | .700 | .710 | .280 | **HK30570002** | Price |
| 3 MT | 4000 | 2.02 lbs | .0008 | 440 lbs | 5.217 | 2.030 | .197 | 2.200 | .938 | .980 | .470 | **HK30570003** | Price |
| 4 MT | 3000 | 3.71 lbs | .0008 | 880 lbs | 6.220 | 2.190 | .217 | 2.520 | 1.231 | 1.100 | .590 | **HK30570004** | Price |
| 5 MT | 2500 | 8 lbs | .0012 | 1770 lbs | 7.815 | 2.720 | .256 | 3.350 | 1.748 | 1.610 | .870 | **HK30570005** | Price |
| 6 MT | 2000 | 25.4 lbs | .0012 | 3550 lbs | 10.846 | 3.700 | .256 | 5.120 | 2.494 | 2.480 | 1.89 | **HK30570006** | Price |

## Inserts For Live Centers

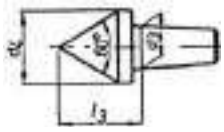
### Type No. 8847 - Body Only

| Taper | Order No. | Price |
|---|---|---|
| 2 MT | **HK30570102** | Price |
| 3 MT | **HK30570103** | Price |
| 4 MT | **HK30570104** | Price |
| 5 MT | **HK30570105** | Price |
| 6 MT | **HK30570106** | Price |



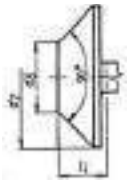
### Type No.8848 - 60° Extended Male Point

| Taper | L3 (in.) | d3 (in.) | d4 (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 2 MT | .750 | .280 | .590 | **HK30570202** | Price |
| 3 MT | .980 | .470 | .790 | **HK30570203** | Price |
| 4 MT | 1.180 | .590 | .980 | **HK30570204** | Price |
| 5 MT | 1.460 | .870 | 1.260 | **HK30570205** | Price |
| 6 MT | 1.730 | 1.890 | 1.420 | **HK30570206** | Price |



### Type No. 8850 - 90° Large Bull Nose Point

| Taper | d6 (in.) | L4 (in.) | D6 (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 2 MT | .510 | 1.500 | .710 | **HK30570402** | Price |
| 3 MT | .790 | 2.480 | 1.300 | **HK30570403** | Price |
| 4 MT | .910 | 2.760 | 1.380 | **HK30570404** | Price |
| 5 MT | 1.100 | 3.150 | 1.500 | **HK30570405** | Price |
| 6 MT | 1.340 | 3.940 | 1.970 | **HK30570406** | Price |



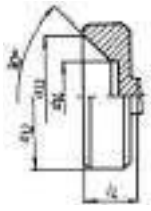
### Type No. 8851 - 90° Standard Female Point

| Taper | d5 (in.) | L4 (in.) | D6 (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 2 MT | .510 | .870 | .310 | **HK30570502** | Price |
| 3 MT | .790 | 1.420 | .470 | **HK30570503** | Price |
| 4 MT | .910 | 1.770 | .670 | **HK30570504** | Price |



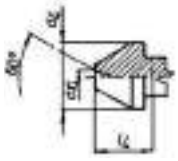
### Type No. 8852 - 90° Large Female Point

| Taper | d5 (in.) | L4 (in.) | D6 (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 2 MT | .510 | 1.180 | .590 | **HK30570602** | Price |
| 3 MT | .790 | 1.770 | .870 | **HK30570603** | Price |
| 4 MT | .910 | 2.480 | 1.180 | **HK30570604** | Price |
| 5 MT | 1.100 | 2.760 | 1.420 | **HK30570605** | Price |



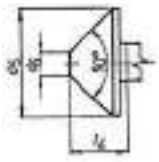
### Type No. 8853 - 60° Standard Male Point

| Taper | L4 (in.) | d16 (in.) | d4 (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 2 MT | .510 | .049 | .590 | **HK30570702** | Price |
| 3 MT | .790 | .049 | .790 | **HK30570703** | Price |
| 4 MT | .910 | .098 | .980 | **HK30570704** | Price |
| 5 MT | 1.100 | .098 | 1.260 | **HK30570705** | Price |



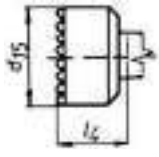
### Type No. 8849 - 90° Small Bull Nose Point

| Taper | d5 (in.) | L4 (in.) | D6 (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 2 MT | .510 | .870 | .120 | **HK30570302** | Price |
| 3 MT | .790 | 1.420 | .240 | **HK30570303** | Price |
| 4 MT | .910 | 1.770 | .390 | **HK30570304** | Price |



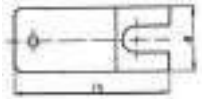
### Type No. 8854 - Flat Knurled Point

| Taper | L4 (in.) | d15 (in.) | Order No. | Price |
|---|---|---|---|---|
| 2 MT | .510 | .710 | **HK30570802** | Price |
| 3 MT | .790 | .980 | **HK30570803** | Price |
| 4 MT | .910 | 1.260 | **HK30570804** | Price |



### Type No. 8855 - Extractor

| Taper | L5 (in.) | B (in.) | Order No. | Price |
|---|---|---|---|---|
| 2 MT | 2.360 | .790 | **HK30570902** | Price |
| 3 MT | 3.150 | 1.18 | **HK30570903** | Price |
| 4 MT | 3.940 | 1.57 | **HK30570904** | Price |
| 5 MT | 4.720 | 1.97 | **HK30570905** | Price |
| 6 MT | 6.30 | 2.36 | **HK30570906** | Price |



## Double Bearing Live Centers

- 60° Included Angle
- Medium duty for general shop applications



| Morse Taper | Point Dia. (in.) | Load Capacity | Order No. | Price |
|---|---|---|---|---|
| 1 MT | 25/32 | 556 lbs | **HK28R1** | Price |
| 2 MT | 15/16 | 756 lbs | **HK28R2** | Price |
| 3 MT | 1-1/16 | 858 lbs | **HK28R3** | Price |
| 4 MT | 1-7/32 | 1051 lbs | **HK28R4** | Price |
| 5 MT | 1-1/2 | 1397 lbs | **HK28R5** | Price |

## Triple Bearing Live Centers

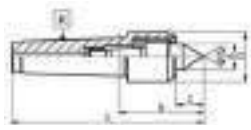
- Labyrinth packing and oil seal
- Preloaded triple bearings
- Running-in period of approximately 250 hours



| Morse Taper | Tip Dia. (in.) | Point Dia. (in.) | Max. RPM | Load Capacity | Order No. | Price |
|---|---|---|---|---|---|---|
| 1 MT | .670 | .669 | 6700 | 200 lbs | **HK28RM1** | Price |
| 2 MT | .870 | .870 | 6400 | 600 lbs | **HK28RM2** | Price |
| 3 MT | 1.18 | 1.180 | 5000 | 900 lbs | **HK28RM3** | Price |
| 4 MT | 1.38 | 1.370 | 4100 | 1800 lbs | **HK28RM4** | Price |
| 5 MT | 1.77 | 1.770 | 3400 | 3000 lbs | **HK28RM5** | Price |
| 6 MT | 2.36 | 2.36 | 2700 | 7500 lbs | **HK28RM6** | Price |

## Slim Casing Live Centers

- For counter-clamping workpieces on turning and grinding machines
- Suited for cramped work area between center point and workpiece
- Enlarged work area and better workpiece accessibility thanks to narrow casing diameter
- Maximum rigidity at high speeds
- Maximum concentricity deviation of 0.0002" for maximum precision





New!

| Style - Slim Casing | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Taper | L (in.) | A (in.) | B (in.) | C (in.) | D (in.) | Max. RPM | Order No. | Price |
| 2 MT | 4.9606 | .5906 | 2.4409 | .7087 | 1.2598 | 7000 | **HK313560002P** | Price |
| 3 MT | 5.6299 | .5906 | 2.4409 | .7087 | 1.3386 | 7000 | **HK313560003P** | Price |
| 4 MT | 7.0079 | .7874 | 2.9724 | .9843 | 1.6535 | 6300 | **HK313560004P** | Price |
| 5 MT | 9.1535 | 1.1811 | 4.0551 | 1.3386 | 2.2835 | 4300 | **HK313560005P** | Price |
| 6 MT | 12.7559 | 1.6535 | 5.5709 | 1.9291 | 3.1496 | 3000 | **HK313560006P** | Price |

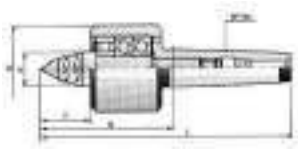
| Style - Slim Casing Ext Spindle | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Taper | L (in.) | A (in.) | B (in.) | C (in.) | D (in.) | Max. RPM | Order No. | Price |
| 2 MT | 5.3937 | .5906 | 2.8740 | 1.1417 | 1.2598 | 7000 | **HK313561002P** | Price |
| 3 MT | 6.1417 | .5906 | 2.9528 | 1.2205 | 1.2205 | 7000 | **HK313561003P** | Price |
| 4 MT | 7.5197 | .7874 | 3.4843 | 1.4961 | 1.4961 | 6300 | **HK313561004P** | Price |
| 5 MT | 9.8425 | 1.1811 | 4.7441 | 2.0276 | 2.0276 | 4300 | **HK313561005P** | Price |
| 6 MT | 13.6220 | 1.6535 | 6.4370 | 2.7953 | 2.7953 | 3000 | **HK313561006P** | Price |

## No Quad-Bearing Live Centers

- Heavy duty
- High speed
- T.I.R. 0.0002"



New!

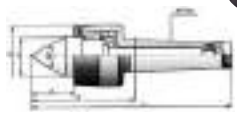


| Taper | L (in.) | A (in.) | B (in.) | C (in.) | D (in.) | Max. RPM | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 4 MT | 8.62 | 1.1 | 4.58 | 1.91 | 2.76 | 7000 | **HK313566004P** | Price |
| 5 MT | 11 | 1.57 | 5.87 | 2.64 | 3.47 | 6000 | **HK313566005P** | Price |

## Adjustable Live Centers

- Adjustable, ultra precision radial bearing reduces run out to minimum after much use
- Heavy duty
- Triple bearing
- T.I.R. 0.00012"





New!

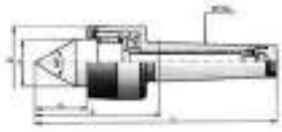
| Taper | L (in.) | A (in.) | B (in.) | C (in.) | D (in.) | Max. RPM | Thrust Load | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 2 MT | 5.41 | .91 | 2.87 | 1.02 | 1.73 | 8000 | 90 | **HK313567002P** | Price |
| 3 MT | 6.53 | 1.1 | 3.37 | 1.26 | 1.89 | 6000 | 170 | **HK313567003P** | Price |
| 4 MT | 7.89 | 1.53 | 3.88 | 1.69 | 2.36 | 4500 | 350 | **HK313567004P** | Price |
| 5 MT | 9.8 | 1.77 | 4.7 | 2.01 | 2.76 | 4000 | 550 | **HK313567005P** | Price |
| 6 MT | 12.64 | 2.4 | 5.47 | 2.44 | 3.7 | 3000 | 1200 | **HK313567006P** | Price |

## Precision Live Centers

New!

- Each center hardened and ground from one single piece of forging
- Spindles are made of high quality alloy steel, heat treated to RC 60-62
- Each live center provided with 3 selected heavy duty precision bearings
- Each bearing is specifically protected against dust and coolant





| Style - Precision | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Taper | L (in.) | A (in.) | B (in.) | C (in.) | D (in.) | Accuracy | Max. RPM | Order No. | Price |
| 1 MT | 4.07 | .59 | 1.97 | .7 | 1.5 | .0003 | 5000 | **HK313565001P** | Price |
| 2 MT | 4.74 | .7 | 2.22 | .87 | 1.57 | .0003 | 5000 | **HK313565002P** | Price |
| 3 MT | 6.14 | .98 | 2.95 | 1.12 | 2.2 | .0003 | 4000 | **HK313565003P** | Price |
| 4 MT | 7.24 | 1.1 | 3.21 | 1.24 | 2.52 | .0003 | 3000 | **HK313565004P** | Price |
| 5 MT | 9.33 | 1.61 | 4.23 | 1.77 | 3.35 | .0004 | 2500 | **HK313565005P** | Price |
| 6 MT | 13.13 | 2.48 | 5.96 | 2.52 | 5.12 | .0004 | 2000 | **HK313565006P** | Price |
| 7 MT | 17.6 | 2.95 | 7.74 | 2.89 | 5.91 | .0004 | 1000 | **HK313565007P** | Price |

| Style - Super Precision | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Taper | L (in.) | A (in.) | B (in.) | C (in.) | D (in.) | Accuracy | Max. RPM | Order No. | Price |
| 1 MT | 4.07 | .59 | 1.97 | .7 | 1.5 | .0002 | 5000 | **HK313565101P** | Price |
| 2 MT | 4.74 | .7 | 2.22 | .87 | 1.57 | .0001 | 5000 | **HK313565102P** | Price |
| 3 MT | 6.14 | .98 | 2.95 | 1.12 | 2.2 | .0001 | 4000 | **HK313565103P** | Price |
| 4 MT | 7.24 | 1.1 | 3.21 | 1.24 | 2.52 | .0001 | 3000 | **HK313565104P** | Price |
| 5 MT | 9.33 | 1.61 | 4.23 | 1.77 | 3.35 | .0002 | 2500 | **HK313565105P** | Price |
| 6 MT | 13.13 | 2.48 | 5.96 | 2.52 | 5.12 | .0002 | 2000 | **HK313565106P** | Price |

## RAPIDHOLD Super Precision Live Centers, Heavy Duty



- Triple bearing heavy duty design
- All centers are provided with the precision bearings
- One piece body made of high quality of forged alloy steel, hardened to 60HRC and precisely ground
- Bearings are protected by a special steel ring
- .0002" T.I.R.

| Morse Taper No. | Head Dia. (in.) | Tip Dia. (in.) | Point Length (in.) | OAL (in.) | Max. RPM | Head Length (in.) | Max. Load | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 MT | 1.338 | .709 | .866 | 4.48 | 6000 | 2.402 | 88 lbs | .64 lbs | **HL2061000** | Price |
| 2 MT | 1.417 | .866 | 1.024 | 4.941 | 5500 | 2.697 | 660 lbs | .88 lbs | **HL2061001** | Price |
| 3 MT | 1.850 | 1.181 | 1.378 | 6.516 | 4500 | 3.661 | 880 lbs | 1.94 lbs | **HL2061002** | Price |
| 4 MT | 2.283 | 1.378 | 1.575 | 7.736 | 4000 | 4.094 | 2640 lbs | 3.23 lbs | **HL2061003** | Price |
| 5 MT | 2.677 | 1.772 | 2.008 | 9.685 | 3000 | 5.295 | 4400 lbs | 6.86 lbs | **HL2061004** | Price |
| 6 MT | 3.543 | 2.362 | 2.559 | 12.64 | 2000 | 5.472 | 8800 lbs | 17.2 lbs | **HL2061005** | Price |

## ROYAL PRODUCTS Value-Turn™ Live Centers

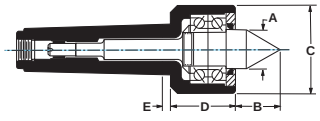
MADE IN THE USA

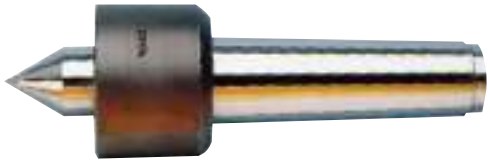


- A sturdy low-cost center designed for general medium-duty turning applications
- ±0.00005" T.I.R. guaranteed
- Precision three-bearing design enables the Royal Value-Turn® to achieve both high RPM's and solid load ratings
- Head is hardened for strength and durability

| Taper† | Head Dia. (in.) | Head Length (in.) | Point Length (in.) | Point Dia. (in.) | Max. RPM | Radial Load | Thrust Load | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 2 MT | 1-11/16 | 1-9/16 | 7/8 | 3/4 | 5000 | 390 lbs | 3730 lbs | **HK2610852** | Price |
| 3 MT | 1-11/16 | 1-9/16 | 7/8 | 3/4 | 5000 | 390 lbs | 3730 lbs | **HK2610853** | Price |
| 4 MT | 2-7/16 | 2-1/32 | 1-3/16 | 1-1/8 | 4500 | 750 lbs | 4990 lbs | **HK2610854** | Price |
| 5 MT | 2-7/16 | 2-1/32 | 1-3/16 | 1-1/8 | 4500 | 750 lbs | 4990 lbs | **HK2610855** | Price |

## Riten Live Standard Point Centers



- Accuracy guaranteed to ±.00005 T.I.R.
- Heavy duty bearing design
- Points are through-hardened to 61-63 Rc.
- Full length spindle for extra rigidity
- Bodies are heat treated for additional strength
- Double row of angular contact bearings for superior performance
- Riten full service, repair, and guarantee apply

| Taper | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | Max. RPM | Radial Load | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 2 MT | 1 | 1-1/4 | 2-3/8 | 1-3/4 | 1/4 | 4000 | 440 lbs | **HK2248602** | Price |
| 3 MT | 1 | 1-1/4 | 2-3/8 | 1-3/4 | 1/4 | 4000 | 1100 lbs | **HK2248603** | Price |
| 4 MT | 1-3/8 | 1-1/2 | 3 | 1-31/32 | 3/8 | 4000 | 2100 lbs | **HK2248604** | Price |
| 5 MT | 1-3/8 | 1-13/16 | 3-1/16 | 2-9/32 | 9/32 | 5000 | 2800 lbs | **HK2248605** | Price |

## ROHM Live Centers

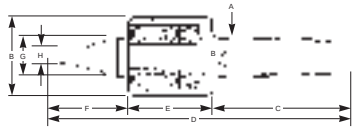


- High runout accuracy
- Triple bearing method
- Center hardened, repeated regrinding at will
- Long life due to splash water groove, improved life-time lubrication and closed toleranced bearing seat
- Lower itnerference shape due to slim housing

| Morse Taper | Head Length | Head Dia. | Point Length | Order No. | Price |
|---|---|---|---|---|---|
| 3 MT | 82,5mm | 55mm | 30,3mm | **HK801267217** | Price |
| 4 MT | 101,5mm | 68,5mm | 39,8mm | **HK801267218** | Price |
| 5 MT | 128mm | 88,5mm | 49,3mm | **HK801267219** | Price |

## Liberty & Watts CNC Live Centers Triple Bearing Type

- Triple bearing design helps overcome excessive thrust problems
- Accuracy: .0001 T.I.R.
- Points hardened and ground
- Specially designed point provides tool clearance often needed on N/C lathes




| Taper | B (in.) | C (in.) | D (in.) | E (in.) | G (in.) | H (in.) | Radial/Thrust Load | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 3 MT | 1-3/4 | 3-7/16 | 6-7/8 | 1-11/16 | 7/8 | 3/8 | 1110 lbs | **HK2612963** | Price |
| 4 MT | 2-1/2 | 4-7/16 | 9-5/8 | 2-11/16 | 1-1/4 | 1/2 | 1860 lbs | **HK2612964** | Price |
| 5 MT | 2-1/2 | 5-9/16 | 10-3/4 | 2-11/16 | 1-1/4 | 1/2 | 1860 lbs | **HK2612965** | Price |

## RAPIDHOLD Live Centers



**101 Series:**

- Machined from one piece of forging, hardened and precisely ground
- Three precision high-quality bearings are protected by a special Steel shield and neoprene seal
- Live centers are lubricated with a special grease and do not require any additional lubrication

**102 Series:**

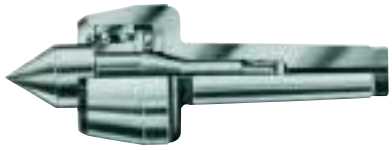
- Machined from one piece of forging, hardened and precisely ground
- Three precision, high-quality bearings are protected by a special Steel shield and neoprene seal
- Adjustable, ultra precision radial bearing reduces run out to minimum after much use
- Easy to adjust

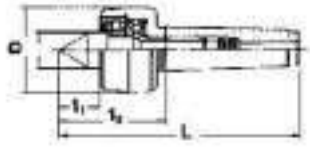
| Style - 101 Series Ball/Roller Bearing | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Morse Taper No. | OAL (in.) | Accuracy | Point Dia. (in.) | Head Length (in.) | Head Dia. (in.) | Point Length (in.) | Max. RPM | Radial Load | Order No. | Price |
| 1 MT | 4.055 | .0003 | .5906 | 1.260 | 1.4961 | .7087 | 5000 | 220 lbs | **HL2161050** | Price |
| 2 MT | 4.724 | .0002 | .7087 | 1.258 | 1.5748 | .8661 | 5000 | 462 lbs | **HL2161051** | Price |
| 3 MT | 6.142 | .0002 | .9843 | 1.681 | 2.2047 | 1.1220 | 4000 | 924 lbs | **HL2161052** | Price |
| 4 MT | 7.244 | .0002 | 1.2590 | 1.819 | 2.5197 | 1.2402 | 3000 | 1848 lbs | **HL2161053** | Price |
| 5 MT | 9.331 | .0002 | 1.6142 | 2.261 | 3.3465 | 1.7717 | 2500 | 4400 lbs | **HL2161054** | Price |
| 6 MT | 13.110 | .0003 | 2.4803 | 3.245 | 5.1181 | 2.5197 | 2000 | 7700 lbs | **HL2161055** | Price |

| Style - 102 Series Ball/Needle Bearing | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Morse Taper No. | OAL (in.) | Accuracy | Point Dia. (in.) | Head Length (in.) | Head Dia. (in.) | Point Length (in.) | Max. RPM | Radial Load | Order No. | Price |
| 2 MT | 5.3937 | .0003 | .9055 | 1.712 | 1.7323 | 1.0236 | 8000 | 220 lbs | **HL2161060** | Price |
| 3 MT | 6.5354 | .0002 | 1.1024 | 1.956 | 1.8898 | 1.2598 | 6000 | 440 lbs | **HL2161061** | Price |
| 4 MT | 7.7165 | .0002 | 1.3730 | 1.845 | 2.3622 | 1.6929 | 4500 | 880 lbs | **HL2161062** | Price |
| 5 MT | 9.6850 | .0002 | 1.9685 | 2.221 | 2.9528 | 2.1654 | 4000 | 1430 lbs | **HL2161063** | Price |
| 6 MT | 12.480 | .0002 | 2.4016 | 2.574 | 3.5433 | 2.4409 | 3000 | 3080 lbs | **HL2161064** | Price |

## Live Centers

- Made of hardened steel and ground for high accuracy
- Precision high quality bearings





| Taper | Accuracy | Radial Load | D (in.) | L (in.) | 1z (in.) | 1x (in.) | Max. RPM | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 1 MT | .0002 | 220 lbs | 1.500 | 4.07 | 0.67 | 1.95 | 5000 | **HK3088111** | Price |
| 2 MT | .0001 | 460 lbs | 1.570 | 4.74 | 0.85 | 2.220 | 5000 | **HK3088112** | Price |
| 3 MT | .0001 | 925 lbs | 2.200 | 6.14 | 1.08 | 2.950 | 4000 | **HK3088113** | Price |
| 4 MT | .0001 | 1850 lbs | 2.520 | 7.24 | 1.32 | 3.35 | 3000 | **HK3088114** | Price |
| 5 MT | .0002 | 4400 lbs | 3.350 | 9.33 | 1.73 | 4.25 | 2500 | **HK3088115** | Price |
| 6 MT | .0002 | 7700 lbs | 5.120 | 13.13 | 2.520 | 5.960 | 2000 | **HK3088116** | Price |

## ROHM Slim Standard, Slim Extended, Slim Extended Profiled Live Centers

- Splash water groove
- Close toleranced bearing seat
- Slim housing
- Body hardened and ground
- Center hardened
- Triple bearing method
- High runout accuracy
- Life-time lubrication
- Heavy duty



| Style - Slim Extended | | | | |
|---|---|---|---|---|
| Mount | Max. RPM | Max. Workpiece Weight (lbs) | Order No. | Price |
| 2 MT | 7000 | 170 | **HK80362080** | Price |
| 3 MT | 7000 | 340 | **HK80362081** | Price |
| 4 MT | 6300 | 700 | **HK80362082** | Price |
| 5 MT | 4300 | 1400 | **HK80362083** | Price |
| 6 MT | 3000 | 3000 | **HK80362084** | Price |

| Style - Slim Extended Profiled | | | | |
|---|---|---|---|---|
| Mount | Max. RPM | Max. Workpiece Weight (lbs) | Order No. | Price |
| 2 MT | 7000 | 50 | **HK801241695** | Price |
| 3 MT | 7000 | 100 | **HK801243505** | Price |

| Style - Slim Extended Profiled | | | | |
|---|---|---|---|---|
| Mount | Max. RPM | Max. Workpiece Weight (lbs) | Order No. | Price |
| 4 MT | 6300 | 150 | **HK801243507** | Price |
| 5 MT | 4300 | 180 | **HK801243509** | Price |

| Style - Slim Standard | | | | |
|---|---|---|---|---|
| Mount | Max. RPM | Max. Workpiece Weight (lbs) | Order No. | Price |
| 2 MT | 7000 | 200 | **HK805336** | Price |
| 3 MT | 7000 | 400 | **HK805429** | Price |
| 4 MT | 6300 | 800 | **HK805469** | Price |
| 5 MT | 4300 | 1600 | **HK805490** | Price |
| 6 MT | 3000 | 3500 | **HK805547** | Price |

## ROYAL PRODUCTS Heavy Duty Spindle Type Live Centers



- An excellent heavy-duty live center designed to handle most turning applications
- ±0.00005" T.I.R guaranteed
- Heavy-duty precision bearings provide exceptional thrust and radial load capacities
- The substantial point extends into the shank where it is supported by a large needle bearing for increased strength and rigidity
- Bearing life is significantly extended with the exclusive Royal Roto-Shield™ coolant slinger and upgraded, long-life, spring-loaded seal that is resistant to abrasion, high temperatures and virtually all metalworking fluids
- Body and point are hardened for strength and durability
- On the CNC model, the extended point provides great tool clearance





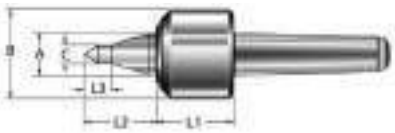
| Point Style - CNC | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Taper | Head Dia. (in.) | Head Length (in.) | Point Length (in.) | Point Dia. (in.) | Tip Dia. (in.) | Max. RPM | Radial Load | Thrust Load | Order No. | Price |
| 2 MT | 1-3/4 | 1-7/16 | 1-3/8 | 7/8 | 3/8 | 6000 | 375 lbs | 2360 lbs | **HK2610212** | Price |
| 3 MT | 2-3/8 | 1-3/4 | 1-7/8 | 1 | 3/8 | 5000 | 740 lbs | 3900 lbs | **HK2610213** | Price |
| 4 MT | 2-3/4 | 1-31/32 | 2-7/32 | 1-1/4 | 1/2 | 4500 | 1120 lbs | 4050 lbs | **HK2610214** | Price |
| 5 MT | 3-1/2 | 2-13/16 | 2-5/8 | 1-1/2 | 1/2 | 3500 | 1930 lbs | 5700 lbs | **HK2610215** | Price |

| Point Style - Standard | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Taper | Head Dia. (in.) | Head Length (in.) | Point Length (in.) | Point Dia. (in.) | Tip Dia. (in.) | Max. RPM | Radial Load | Thrust Load | Order No. | Price |
| 2 MT | 1-3/4 | 1-7/16 | 1-1/32 | 7/8 | - | 6000 | 725 lbs | 2360 lbs | **HK2610102** | Price |
| 3 MT | 2-3/8 | 1-3/4 | 1-1/4 | 1 | - | 5000 | 970 lbs | 3900 lbs | **HK2610103** | Price |
| 4 MT | 2-3/4 | 1-31/32 | 1-1/2 | 1-1/4 | - | 4500 | 1720 lbs | 4050 lbs | **HK2610104** | Price |
| 5 MT | 3-1/2 | 2-13/16 | 1-7/8 | 1-1/2 | - | 3500 | 3260 lbs | 5700 lbs | **HK2610105** | Price |
| 6 MT | 4-5/32 | 3-5/32 | 2-5/32 | 2 | - | 3500 | 4080 lbs | 6000 lbs | **HK2610106** | Price |

## DRIAN Perfetta™ Precision Live Centers with .00007" Max. Runout

### Finally, A Live Center With Taper Bearings!!!

- Taper bearings are used in the design of lathe headstocks to support the spindle
- Heavy-duty bearing type to support radial and axial forces

| Style - 60° Extended Medium Slim Steel Point | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | Description | A (in.) | B. (in.) | C (in.) | L1 (in.) | L2 (in.) | Morse Taper | Max. RPM | Max. Workpiece Weight (lbs.) | Thrust Load | Order No. | Price |
|  | PLC-PRE-EMSSP-MT2 | .87 | 1.89 | .31 | 1.65 | 1.26 | 2 MT | 6000 | 2200 | 792 lbs | **FL3248266** | Price |
| | PLC-PRE-EMSSP-MT4 | 1.14 | 2.40 | .47 | 2.00 | 1.97 | 4 MT | 4000 | 1078 | 1320 lbs | **FL3248268** | Price |
| | PLC-PRE-EMSSP-MTS | .87 | 2.17 | .39 | 1.69 | 1.57 | 3 MT | 5000 | 572 | 1144 lbs | **FL3248267** | Price |

| Style - 60° Standard Steel Point | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Item | Description | A (in.) | B. (in.) | C (in.) | L1 (in.) | L2 (in.) | Morse Taper | Max. RPM | Max. Workpiece Weight (lbs.) | Thrust Load | Order No. | Price |
|  | PLC-PRE-S60-MT1 | .63 | 1.49 | - | 1.45 | .79 | 1 MT | 8500 | 110 | 365 lbs | **GG3548200** | Price |
| | PLC-PRE-S60-MT2 | .87 | 1.89 | - | 1.65 | .98 | 2 MT | 6000 | 220 | 792 lbs | **GG3548201** | Price |
| | PLC-PRE-S60-MT3 | .87 | 2.17 | - | 1.69 | 1.06 | 3 MT | 5000 | 572 | 1144 lbs | **GG3548202** | Price |
| | PLC-PRE-S60-MT4 | 1.14 | 2.40 | - | 2.0 | 1.49 | 4 MT | 4000 | 1078 | 1320 lbs | **GG3548203** | Price |
| | PLC-PRE-S60-MT5 | 1.49 | 3.15 | - | 2.16 | 1.77 | 5 MT | 3000 | 1672 | 1430 lbs | **GG3548204** | Price |
| | PLC-PRE-S60-MT6 | 1.65 | 3.70 | - | 2.67 | 2.00 | 6 MT | 2500 | 3388 | 3300 lbs | **GG3548205** | Price |

## Perfetta™ Quattro Forte Heavy Duty Live Center

### Finally, A Live Center With Taper Bearings!!!

- Taper bearings are used in the design of lathe headstocks to support the spindle
- Heavy-duty bearing type to support radial and axial forces

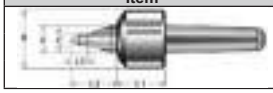
**Features:**

- Precision Concentricity T.I.R. .00015
- Heavy-duty precision quad bearings
- Bearings permanently lubricated
- Chromium-Molybdenum Alloy Steel
- Surface heat treated to 62Rc and precision ground manual lathes

**Style - 60° Extended Large Steel Point**

| Item | Description | A (in.) | B (in.) | C (in.) | L1 (in.) | L2 (in.) | Morse Taper | Max. RPM | Max. Workpiece Weight (lbs.) | Thrust Load (lbs.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | PLC-HAD-ELSP-MT5 | 1.50 | 3.15 | .47 | 2.32 | 2.68 | 5 MT | 4400 | 4400 | 2640 lbs | **FL3248279** | Price |
| | PLC-HAD-ELSP-MT6 | 1.65 | 4.26 | .63 | 3.47 | 2.76 | 6 MT | 10560 | 10560 | 3300 lbs | **FL3248280** | Price |
| | PLC-HDA-3LSP-MT4 | 1.14 | 2.40 | .31 | 2.01 | 1.97 | 4 MT | 3300 | 3300 | 1320 lbs | **FL3248278** | Price |
| | PLC-HDA-ELSP-MT3 | .87 | 2.17 | .23 | 1.69 | 1.57 | 3 MT | 2090 | 2090 | 1144 lbs | **FL3248277** | Price |

**Style - 60° Extended Medium Slim Steel Point**

| Item | Description | A (in.) | B (in.) | C (in.) | L1 (in.) | L2 (in.) | Morse Taper | Max. RPM | Max. Workpiece Weight (lbs.) | Thrust Load (lbs.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | PLC-HDA-EMSSP-MT4 | 1.14 | 2.40 | .47 | 2.01 | 1.97 | 4 MT | 3300 | 3300 | 1320 lbs | **FL3248274** | Price |
| | PLC-HDA-EMSSP-MT5 | 1.50 | 3.15 | .62 | 2.32 | 2.68 | 5 MT | 4400 | 4400 | 2640 lbs | **FL3248275** | Price |
| | PLC-HDA-EMSSP-MTS | .87 | 2.17 | .39 | 1.69 | 1.57 | 3 MT | 2090 | 2090 | 1144 lbs | **FL3248273** | Price |

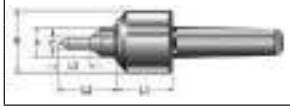
**Style - 60° Standard Steel Point**

| Item | Description | A (in.) | B (in.) | C (in.) | L1 (in.) | L2 (in.) | Morse Taper | Max. RPM | Max. Workpiece Weight (lbs.) | Thrust Load (lbs.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | PLC-HDA-S60-MT2 | .87 | 2.01 | - | 1.69 | .99 | 2 MT | 7500 | 506 | 1012 lbs | **GG3548206** | Price |
| | PLC-HDA-S60-MT3 | .87 | 2.17 | - | 1.69 | 1.10 | 3 MT | 6000 | 2090 | 1144 lbs | **GG3548207** | Price |
| | PLC-HDA-S60-MT4 | 1.14 | 2.40 | - | 2.01 | 1.50 | 4 MT | 4500 | 3300 | 1320 lbs | **GG3548208** | Price |
| | PLC-HDA-S60-MT5 | 1.50 | 3.15 | - | 2.32 | 1.85 | 5 MT | 2800 | 4400 | 2460 lbs | **GG3548209** | Price |
| | PLC-HDA-S60-MT6 | 1.65 | 4.26 | - | 3.47 | 2.17 | 6 MT | 2000 | 10560 | 3300 lbs | **GG3548210** | Price |
| | PLC-HDA-S60-MT6 | 2.36 | 5.44 | - | 4.57 | 2.40 | 6 MT | 1700 | 19800 | 6600 lbs | **GG3548211** | Price |

## CNC High Speed Heavy Duty Live Centers

- Precise Concentricity T.I.R. 0.0001
- High Speed Precision Bearings
- Three Permanently Lubricated Bearings
- Sealed with Lip Seal and Locked with a Flange Shield
- Chromium-Molybdenum Alloy Steel
- Surface Heat Treated to 62 Rc and Precision Ground

**Style - 60 Deg Extended Large Slim Steel or Carbide Point**

| Item | Description | A (in.) | B (in.) | C (in.) | L1 (in.) | L2 (in.) | Morse Taper | Max. RPM | Max. Workpiece Weight (lbs) | Thrust Load | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | PLC-CNC-ELSSP-MT3 | .87 | 2.17 | .47 | 1.85 | 1.65 | 3 MT | 7000 | 1386 | 1144 lbs | **FL3248608** | Price |
| | PLC-CNC-ELSSP-MT4 | 1.14 | 2.40 | .55 | 2.17 | 2.00 | 4 MT | 5500 | 1883 | 1438 lbs | **FL3248609** | Price |
| | PLC-CNC-ELSSP-MT5 | 1.50 | 3.15 | .70 | 2.48 | 2.20 | 5 MT | 4500 | 2860 | 2486 lbs | **FL3248610** | Price |
| | PLC-CNC-ELSSP-MT6 | 1.65 | 3.66 | .78 | 2.48 | 2.20 | 6 MT | 3200 | 3740 | 2508 lbs | **FL3248611** | Price |

**Style - 60 Deg Extended Medium Slim Steel or Carbide Point**

| Item | Description | A (in.) | B (in.) | C (in.) | L1 (in.) | L2 (in.) | Morse Taper | Max. RPM | Max. Workpiece Weight (lbs) | Thrust Load | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | PLC-CNC-EMSSP-MT4 | 1.14 | 2.40 | .47 | 2.17 | 2.01 | 4 MT | 55000 | 1883 | 1438 lbs | **FL3248283** | Price |
| | PLC-CNC-EMSSP-MT5 | 1.50 | 3.15 | .62 | 2.48 | 2.21 | 5 MT | 45000 | 2860 | 2486 lbs | **FL3248284** | Price |
| | PLC-CNC-EMSSP-MT6 | 1.65 | 3.66 | .70 | 3.46 | 3.07 | 6 MT | 3200 | 3740 | 2508 lbs | **FL3248285** | Price |
| | PLC-CNC-INT-MT3-SET MMP-MT3 | .87 | 2.17 | .39 | 1.85 | 1.65 | 3 MT | 7000 | 1386 | 1144 lbs | **FL3248282** | Price |

**Style - 60 Deg Extended Small Slim Steel or Carbide Point**

| Item | Description | A (in.) | B (in.) | C (in.) | L1 (in.) | L2 (in.) | Morse Taper | Max. RPM | Max. Workpiece Weight (lbs) | Thrust Load | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | PLC-CNC-ESSSP-MT3 | .87 | 2.17 | .27 | 1.85 | 1.65 | 3 MT | 7000 | 1386 | 1144 lbs | **FL3248600** | Price |
| | PLC-CNC-ESSSP-MT4 | 1.14 | 2.40 | .31 | 2.17 | 2.00 | 4 MT | 5500 | 1883 | 1438 lbs | **FL3248601** | Price |
| | PLC-CNC-ESSSP-MT5 | 1.50 | 3.15 | .39 | 2.48 | 2.24 | 5 MT | 4500 | 2860 | 2486 lbs | **FL3248602** | Price |
| | PLC-CNC-ESSSP-MT6 | 1.65 | 3.66 | .39 | 2.48 | 3.11 | 6 MT | 3200 | 3740 | 2508 lbs | **FL3248603** | Price |

**Style - 60 Deg Standard Steel or Carbide Point**

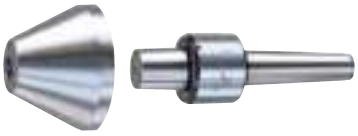
| Item | Description | A (in.) | B (in.) | C (in.) | L1 (in.) | L2 (in.) | Morse Taper | Max. RPM | Max. Workpiece Weight (lbs) | Thrust Load | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | PLC-CNC-S60-MT3 | .87 | 2.17 | - | 1.85 | 1.10 | 3 MT | 7000 | 1386 | 1144 lbs | **FL3248220** | Price |
| | PLC-CNC-S60-MT4 | 1.14 | 2.40 | - | 2.17 | 1.58 | 4 MT | 55000 | 1883 | 1438 lbs | **FL3248221** | Price |
| | PLC-CNC-S60-MT5 | 1.50 | 3.15 | - | 2.48 | 1.89 | 5 MT | 45000 | 2860 | 2486 lbs | **FL3248222** | Price |
| | PLC-CNC-S60-MT6 | 1.65 | 3.66 | - | 2.88 | 2.17 | 6 MT | 3200 | 3740 | 2508 lbs | **FL3248223** | Price |

**Style - 60° Exteded Large Steel or Carbide Point**

| Item | Description | A (in.) | B (in.) | C (in.) | L1 (in.) | L2 (in.) | Morse Taper | Max. RPM | Max. Workpiece Weight (lbs) | Thrust Load | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | PLC-CNC-ELSP-MT3 | .87 | 2.17 | .23 | 1.85 | 1.65 | 3 MT | 7000 | 1386 | 1386 lbs | **FL3248232** | Price |
| | PLC-CNC-ELSP-MT4 | 1.14 | 2.40 | .31 | 2.17 | 2.01 | 4 MT | 5500 | 1883 | 1883 lbs | **FL3248233** | Price |
| | PLC-CNC-ELSP-MT5 | 1.50 | 3.15 | .39 | 2.48 | 2.21 | 5 MT | 4500 | 2860 | 2860 lbs | **FL3248234** | Price |
| | PLC-CNC-ELSP-MT6 | 1.65 | 3.66 | .47 | 2.88 | 3.47 | 6 MT | 3200 | 3740 | 3740 lbs | **FL3248235** | Price |

**F.O.B. Factory**

## Extra Heavy Duty Modular Bull Nose Live Centers



- Precision Ground Taper Nose .0001" T.I.R. Between Nose and Morse Taper Shank
- High Precision Double Needle Bearings support the Extended Spindle Body
- Heavy Duty Thrus-Bearing for Heavy Axial Loads
- Lip Seal prevents coolant from entering the live center

| Model No. | Morse Taper | Max. RPM | Max. Workpiece Weight (lbs.) | Thrust Load | Order No. | Price |
|---|---|---|---|---|---|---|
| PLC-HDA-BN-MT3 | 3 MT | 6000 | 2090 | 1144 lbs | **FL3248400** | Price |
| PLC-HDA-BN-MT4 | 4 MT | 4500 | 3300 | 1320 lbs | **FL3248401** | Price |
| PLC-HDA-BN-MT5 | 5 MT | 2800 | 4400 | 2640 lbs | **FL3248402** | Price |
| PLC-HDA-BN-MT6 | 6 MT | 2000 | 10560 | 3300 lbs | **FL3248403** | Price |
| PLC-HDA-BN-MT6X | 6 MT | 1700 | 19800 | 6600 lbs | **FL3248404** | Price |

## CNC Modular Bull Nose Dead Centers



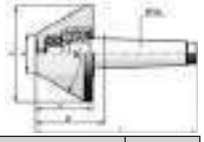
| Model No. | Morse Taper | Order No. | Price |
|---|---|---|---|
| PLC-CNC-BNDC-MT3 | 3 MT | **FL3248406** | Price |
| PLC-CNC-BNDC-MT4 | 4 MT | **FL3248407** | Price |
| PLC-CNC-BNDC-MT5 | 5 MT | **FL3248408** | Price |
| PLC-CNC-BNDC-MT6 | 6 MT | **FL3248409** | Price |

## Bull Nose Live Centers



- Centers are designed to hold pipe and hollow work
- Triple bearing design
- Three matched bearings are preloaded at the factory
- Good thrust and radial capabilities
- Bearings are protected by a special seal
- Head is made of high quality alloy steel and heat treated to RC 61-63
- 60 degree head angle

New!

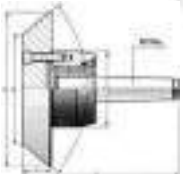


| Taper | L (in.) | A (in.) | B (in.) | C (in.) | D (in.) | Accuracy | Max. RPM | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 1 MT | 3.66 | 0.79 | 1.56 | 1.38 | 1.97 | .0003 | 5000 | **HK313575010P** | Price |
| 2 MT | 4.11 | 1.18 | 1.6 | 1.38 | 2.36 | .0003 | 5000 | **HK313575020P** | Price |
| 2 MT | 4.84 | 1.18 | 2.32 | 2.09 | 3.15 | .0003 | 4500 | **HK313575021P** | Price |
| 3 MT | 5.51 | 1.18 | 2.32 | 2.09 | 3.15 | .0003 | 4500 | **HK313575030P** | Price |
| 3 MT | 5.83 | 1.57 | 2.64 | 2.4 | 3.93 | .0003 | 3000 | **HK313575031P** | Price |
| 4 MT | 6.73 | 1.57 | 2.7 | 2.4 | 3.93 | .0003 | 3000 | **HK313575040P** | Price |
| 4 MT | 7.09 | 2.76 | 3.05 | 2.76 | 5.51 | .0004 | 3000 | **HK313575042P** | Price |
| 5 MT | 8.15 | 3.94 | 3.05 | 2.76 | 6.69 | .0008 | 2000 | **HK313575051P** | Price |
| 6 MT | 11.73 | 7.09 | 4.57 | 4.21 | 11.5 | .002 | 1000 | **HK313575060P** | Price |

## Pipe Live Centers with Interchangeable Heads



- Designed for using with intechangeable tapered heads or with 3", 4", and 5" front mounting, self-centering chucks
- Triple bearing design
- All parts are made of steel, hardened and precision ground

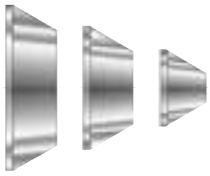


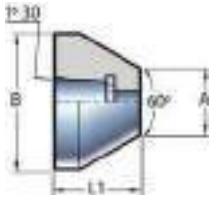
New!

| Taper | L (in.) | A (in.) | B (in.) | D (in.) | W (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 3 MT | 7.09 | 5.7 | 7.87 | 3.07 | 1.57 | **HK3135730302P** | Price |
| 4 MT | 8.11 | 3.74 | 5.9 | 3.86 | 1.57 | **HK3135730401P** | Price |
| 4 MT | 8.11 | 5.7 | 7.87 | 3.86 | 1.57 | **HK3135730402P** | Price |
| 4 MT | 8.11 | 7.68 | 9.84 | 3.86 | 1.57 | **HK3135730403P** | Price |
| 5 MT | 9.52 | 5.70 | 7.87 | 4.84 | 1.57 | **HK3135730502P** | Price |
| 5 MT | 9.52 | 7.68 | 9.84 | 4.84 | 1.57 | **HK3135730503P** | Price |
| 5 MT | 9.52 | 9.65 | 11.81 | 4.84 | 1.57 | **HK3135730504P** | Price |

## Modular Bull Nose Head Adapters

- 60° Nose Taper






| Description | Point Dia. (in.) | Head Dia. (in.) | Head Length (in.) | Order No. | Price |
|---|---|---|---|---|---|
| PLCBN-HA-0177-0386 | 1.77 | 3.86 | 2.17 | **FL3248420** | Price |
| PLCBN-HA-0374-0583 | 3.74 | 5.83 | 2.17 | **FL3248421** | Price |
| PLCBN-HA-0571-0780 | 5.71 | 7.80 | 2.17 | **FL3248422** | Price |
| PLCBN-HA-0768-0977 | 7.68 | 9.77 | 2.17 | **FL3248423** | Price |
| PLCBN-HA-0965-1174 | 9.65 | 11.74 | 2.17 | **FL3248424** | Price |
| PLCBN-HA-1162-1371 | 11.62 | 13.71 | 2.17 | **FL3248425** | Price |
| PLCBN-HA-1359-1568 | 13.59 | 15.68 | 2.17 | **FL3248426** | Price |
| PLCBN-HA-1556-1765 | 15.56 | 17.65 | 2.17 | **FL3248427** | Price |
| PLCBN-HA-1753-1962 | 17.53 | 19.62 | 2.17 | **FL3248428** | Price |
| PLCBN-HA-1950-2147 | 19.50 | 21.47 | 2.17 | **FL3248429** | Price |
| PLCBN-HA-2147-2364 | 21.47 | 23.64 | 2.17 | **FL3248430** | Price |

## Live Pipe Centers

- 60° Tip

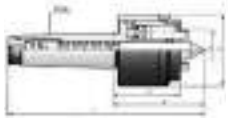


| Morse Taper | Max. RPM | Max. Workpiece Weight (lbs.) | Thrust Load | Order No. | Price |
|---|---|---|---|---|---|
| 4 MT | 4500 | 7700 | 3372 lbs | **GG3548390** | Price |
| 5 MT | 4500 | 7700 | 3372 lbs | **GG3548391** | Price |
| 6 MT | 4500 | 7700 | 3372 lbs | **GG3548392** | Price |

## Face Drivers

- Fully automatic

New!

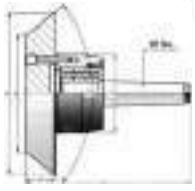




| Taper | L (in.) | A (in.) | B (in.) | D (in.) | D1 (in.) | Max. Workpiece Wt. (lbs) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 4 MT | 7.28 | 2.52 | 3.15 | 2.68 | 1.18 - 1.97 | 121 | **HK313590041P** | Price |
| 5 MT | 9.94 | 3.39 | 4.45 | 3.54 | 2.05 - 4.72 | 220 | **HK313590054P** | Price |

## Rotating Bodies

- Steel body construction with hardened and ground scroll and pinions
- Hardened and ground MT shank
- Sealed ball bearings, lubrication through roller





New!

| Taper | C (in.) | L (in.) | D (in.) | L3 (in.) | M | Accuracy | Max. RPM | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 2 MT | - | 6.41 | 3.07 | - | - | .002 | 4000 | **HK313573032P** | Price |
| 3 MT | - | 7.09 | 3.07 | - | - | .002 | 4000 | **HK313573033P** | Price |
| 3 MT | - | 7.2 | 3.85 | - | - | .002 | 3500 | **HK313573043P** | Price |
| 3 MT | - | 7.55 | 4.84 | - | - | .002 | 3200 | **HK313573053P** | Price |
| 4 MT | - | 8.11 | 3.86 | - | - | .002 | 3500 | **HK313573044P** | Price |
| 4 MT | - | 8.46 | 4.84 | - | - | .002 | 3200 | **HK313573054P** | Price |
| 5 MT | - | 6.3 | 9.52 | - | - | .002 | 3000 | **HK313573065P** | Price |
| 5 MT | - | 9.52 | 4.84 | - | - | .002 | 3200 | **HK313573055P** | Price |
| 5 MT | 0.138 | 8.386 | 7.874 | 3.032 | M10 | .001 | 2800 | **HK313573085P** | Price |
| 6 MT | 0.177 | 11.378 | 9.842 | 3.858 | M12 | .001 | 2500 | **HK313573106P** | Price |

## ROYAL PRODUCTS High Precision Quad Bearing Live Centers

- Great for grinding and tight tolerance turning
- ±0.00005" T.I.R. guaranteed
- Three precision angular contact bearings are secured to the point with a locknut to form a rigid, preloaded assembly
- The point extends into the body where it is supported by a needle roller bearing, which further increases rigidity, reduces point deflection, and dampens vibration
- Bearing life is significantly extended with the exclusive Royal Roto-Shield™ coolant slinger and upgraded, long-life, spring-loaded seal that is resistant to abrasion, high temperatures and virtually all metalworking fluids
- Low profile head provides excellent tool clearance
- Body and point are hardened for strength and durability


Standard


CNC

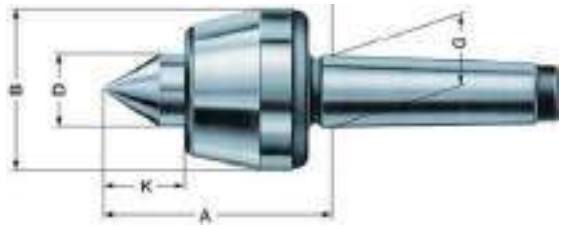
| Point Style - CNC | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Taper | Head Dia. (in.) | Head Length (in.) | Point Length (in.) | Point Dia. (in.) | Tip Dia. (in.) | Max. RPM | Radial Load | Thrust Load | Order No. | Price |
| 3 MT | 1.70 | 2.120 | 1.75 | .880 | .380 | 6000 | 465 lbs | 1270 lbs | **HK2610663** | Price |
| 4 MT | 2.45 | 2.780 | 2.35 | 1.250 | .500 | 5000 | 1230 lbs | 2150 lbs | **HK2610664** | Price |
| 5 MT | 2.45 | 2.780 | 2.35 | 1.250 | .500 | 5000 | 1230 lbs | 2150 lbs | **HK2610665** | Price |

| Point Style - Standard | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Taper | Head Dia. (in.) | Head Length (in.) | Point Length (in.) | Point Dia. (in.) | Tip Dia. (in.) | Max. RPM | Radial Load | Thrust Load | Order No. | Price |
| 3 MT | 1.70 | 2.120 | 1.07 | .880 | - | 6000 | 885 lbs | 1270 lbs | **HK2610413** | Price |
| 4 MT | 2.45 | 2.780 | 1.47 | 1.250 | - | 5000 | 2240 lbs | 2150 lbs | **HK2610414** | Price |
| 5 MT | 2.45 | 2.780 | 1.47 | 1.250 | - | 5000 | 2240 lbs | 2150 lbs | **HK2610415** | Price |
| 5 MT HD | 3.82 | 3.890 | 2.31 | 2.00 | - | 3000 | 5240 lbs | 5300 lbs | **HK2610445** | Price |

## ROHM Revolving Tailstock Centers

### Type 604 H body hardened and ground

- Triple bearing method
- High runout accuracy
- Heavy duty
- High speeds
- Long life




| Taper | Radial Load | Accuracy (in.) | Max. RPM | A (in.) | B (in.) | D (in.) | K (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 3 MT | 1100 lbs | .0002 | 5000 | 3.130 | 2.362 | .984 | 1.220 | **HK8042776** | Price |
| 4 MT | 1760 lbs | .0002 | 3800 | 4.035 | 2.756 | 1.260 | 1.614 | **HK8042175** | Price |
| 5 MT | 4400 lbs | .0002 | 3000 | 5.079 | 3.543 | 1.575 | 1.988 | **HK8042843** | Price |
| 6 MT | 7700 lbs | .0004 | 2600 | 5.984 | 4.134 | 1.969 | 2.264 | **HK8043532** | Price |

## ROHM Revolving Tailstock Centers

### Type 604 HVL with extended live center

- Triple bearing method
- High runout accuracy
- Heavy duty
- High speeds
- Long life

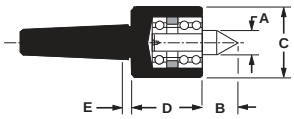


| Taper | Radial Load | Accuracy (in.) | Max. RPM | Head Length (in.) | Head Dia. (in.) | Tip Dia. (in.) | Point Length (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 3 MT | 880 lbs | .0002 | 5000 | 3.760 | 2.362 | .472 | 1.850 | **HK8058670** | Price |
| 4 MT | 1100 lbs | .0002 | 3800 | 4.508 | 2.756 | .551 | 2.087 | **HK8058671** | Price |
| 5 MT | 2640 lbs | .0002 | 3000 | 5.650 | 3.543 | .630 | 2.559 | **HK8058672** | Price |
| 6 MT | 5500 lbs | .0004 | 2600 | 6.791 | 4.134 | .709 | 3.071 | **HK8058673** | Price |

## Econo Tri Bearing Tracer Point Live Centers

- Accuracy guaranteed to ±.0002 T.I.R.
- Three rows of bearings
- Points are through-hardened to 61-63 Rc.
- Sealed bearings lubricated for life, protected against contaminants and coolant



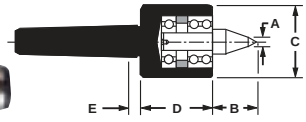



| Taper | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | Radial Load | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 2 MT | 3/8 | 1-1/4 | 1-5/8 | 1-5/8 | 1/4 | 300 lbs | **HK2244902** | Price |
| 3 MT | 3/8 | 1-1/2 | 2 | 1-15/16 | 1/4 | 300 lbs | **HK2244903** | Price |
| 4 MT | 1/2 | 2 | 2-3/8 | 2-1/4 | 1/4 | 900 lbs | **HK2244904** | Price |
| 5 MT | 1/2 | 2 | 2-3/8 | 2-1/4 | 1/4 | 900 lbs | **HK2244905** | Price |

## Econo Tri Bearing Standard Point Live Centers

- Accuracy guaranteed to ±.0002 T.I.R.
- Three rows of bearings
- Points are through-hardened to 61-63 Rc.
- Sealed bearings lubricated for life, protected against contaminants and coolant



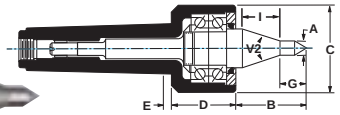



| Taper | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | Max. RPM | Radial Load | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 2 MT | 9/16 | 13/16 | 1-5/8 | 1-5/8 | 1/4 | 2500 | 300 lbs | **HK2244102** | Price |
| 3 MT | 13/16 | 1 | 2 | 1-15/16 | 1/4 | 2500 | 500 lbs | **HK2244103** | Price |
| 4 MT | 1 | 1-1/4 | 2-3/8 | 2-1/4 | 1/4 | 2500 | 1100 lbs | **HK2244104** | Price |
| 5 MT | 1 | 1-1/4 | 2-3/8 | 2-1/4 | 1/4 | 2500 | 1100 lbs | **HK2244105** | Price |

## Live Long Point Centers

- Accuracy guaranteed to ±.00005 T.I.R.
- Heavy duty bearing design
- Points are through-hardened to 61-63 Rc.
- Full length spindle for extra rigidity
- Bodies are heat treated for additional strength
- Double row of angular contact bearings for superior performance
- Riten full service, repair, and guarantee apply






| Taper | A (in.) | B (in.) | G (in.) | V2 | I | Radial Load | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 2 MT | 3/8 | 1-7/8 | 5/8 | 34 Degree | 1-21/32 | 310 lbs | **HK2248102** | Price |
| 3 MT | 3/8 | 1-7/8 | 5/8 | 34 Degree | 1-21/32 | 640 lbs | **HK2248103** | Price |
| 4 MT | 1/2 | 2-7/32 | 13/16 | 34 Degree | 2 | 1100 lbs | **HK2248104** | Price |
| 5 MT | 1/2 | 2-1/2 | 15/16 | 44 Degree | 2 | 1100 lbs | **HK2248105** | Price |

## Super Accurate Live Centers

- The ultimate live center for grinding is provided by Riten's unique design
- Ideal for precision grinding applications
- Accuracy guaranteed to ±.00005 T.I.R.
- Compact design
- Extended points available
- Ideal for grinding
- 1000 RPM maximum - For all Super Accurate
- Riten full service, repair, and guarantee apply

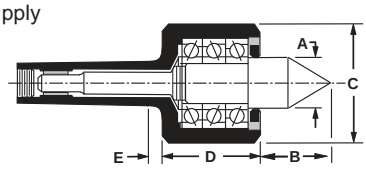


| Mount Type - Morse Taper | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Taper | Point Dia. (in.) | Point Length (in.) | Head Dia. (in.) | Head Length (in.) | Neck Width (in.) | Max. W.P. Weight | Order No. | Price |
| 2 MT | 3/4 | 13/16 | 1-1/4 | 3/4 | 3/32 | 400 lbs | **HK2212102** | Price |
| 3 MT | 7/8 | 1-1/16 | 1-11/16 | 15/16 | 3/16 | 1000 lbs | **HK2212103** | Price |
| 4 MT | 1 | 1 | 2-1/8 | 1-3/16 | 1/4 | 1800 lbs | **HK2212104** | Price |
| 6 MT | 2-1/8 | 2-1/8 | 4-3/16 | 2-1/2 | 5/16 | 6000 lbs | **HK2212106** | Price |

| Mount Type - Straight Shank | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Taper | Point Dia. (in.) | Point Length (in.) | Head Dia. (in.) | Head Length (in.) | Neck Width (in.) | Max. W.P. Weight | Order No. | Price |
| 1/2 SS | 1/2 | 9/16 | 1-1/4 | 3/4 | 2-1/4 | 100 lbs | **HK2212301** | Price |
| 3/4 SS | 1/2 | 9/16 | 1-1/4 | 3/4 | 2-3/4 | 440 lbs | **HK2212302** | Price |
| 1 SS | 7/8 | 1 | 1-11/16 | 15/16 | 5 | 1000 lbs | **HK2212304** | Price |
| 1-1/4 SS | 1 | 1 | 2-1/8 | 1-3/16 | 5 | 1800 lbs | **HK2212305** | Price |

## Advantage Live Centers

- Accuracy guaranteed to ±.00005 T.I.R.
- Heavy duty Tri-bearing design
- Points are through-hardened to 61-63 Rc.
- Three angular contact bearings for superior performance
- Full length spindle for extra rigidity
- Bodies are heat treated for additional strength
- Riten full service and repair supply






| Taper | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | Max. RPM | Radial Load | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 2 MT | 7/8 | 1-1/8 | 1-3/4 | 2-5/8 | 3/8 | 5000 | 880 lbs | **HK2251602** | Price |
| 3 MT | 7/8 | 1-1/8 | 1-3/4 | 2-5/8 | 3/8 | 5000 | 920 lbs | **HK2251603** | Price |
| 4 MT | 1-1/8 | 2 | 2-7/8 | 3-3/16 | 1/2 | 4200 | 2200 lbs | **HK2251604** | Price |
| 5 MT | 1-1/8 | 2 | 2-7/8 | 3-3/16 | 1/2 | 4200 | 4400 lbs | **HK2251605** | Price |
| 6 MT | 1-7/8 | 2-1/4 | 3-3/4 | 3-27/32 | 1/2 | 4000 | 6500 lbs | **HK2251606** | Price |

## ROYAL PRODUCTS Versa-Turn Live Centers

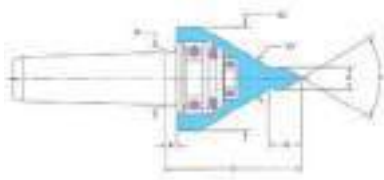
- A great multi-purpose live center designed to handle most common turning jobs
- Extended point provides good tool clearance
- Bull head is great for tubes and parts with large center holes
- ±0.00005" T.I.R. guaranteed on both sections of rotating point
- The Royal Versa-Turn is extremely free turning — excellent for thin parts that can't take high thrust loads
- Head and shank are hardened for strength and durability



| Taper | Head Dia. (in.) | Head Length (in.) | Point Length (in.) | Point Dia. (in.) | Max. RPM | Radial Load | Thrust Load | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 2 MT | 2-1/8 | 2-3/16 | 3/4 | 1/2 | 5000 | 330 lbs | 2160 lbs | **HK2610831** | Price |
| 3 MT | 2-1/8 | 2-3/16 | 3/4 | 1/2 | 5000 | 330 lbs | 2160 lbs | **HK2610832** | Price |
| 3 MT HD | 2-1/2 | 2-9/16 | 15/16 | 5/8 | 4000 | 685 lbs | 5000 lbs | **HK2610833** | Price |
| 4 MT | 2-1/2 | 2-9/16 | 15/16 | 5/8 | 4000 | 685 lbs | 5000 lbs | **HK2610834** | Price |
| 4 MT HD | 3-3/8 | 3-1/8 | 1-1/8 | 3/4 | 3500 | 1165 lbs | 5700 lbs | **HK2610835** | Price |
| 5 MT | 3-3/8 | 3-1/8 | 1-1/8 | 3/4 | 3500 | 1165 lbs | 5700 lbs | **HK2610836** | Price |

## Riten Multi-Use Live Centers

- Ideal for general machine shop use
- Can be used when machining thin-walled workpieces or general shaft work applications
- The versatility of this center makes it a "must have" tool when your center needs change frequently
- Accurate to ±.0001 T.I.R.
- Great for manual lathe applications
- Riten full service, repair, and guarantee apply



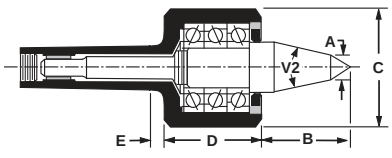


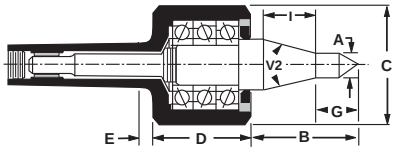
| Taper | A (in.) | A2 (in.) | F (in.) | G (in.) | K (in.) | V | Max. RPM | Radial Load | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 MT | 1/2 | 2-1/4 | 1/4 | 3/4 | 3-3/16 | 60 Degree | 5000 | 330 lbs | **HK2260222** | Price |
| 3 MT | 1/2 | 2-1/4 | 1/4 | 3/4 | 3-3/16 | 60 Degree | 5000 | 330 lbs | **HK2260223** | Price |
| 3 MT | 5/8 | 2-5/8 | 1/4 | 15/16 | 3-3/16 | 60 Degree | 4000 | 685 lbs | **HK2260263** | Price |
| 4 MT | 3/4 | 3-1/2 | 3/8 | 1-1/8 | 3-7/8 | 60 Degree | 3500 | 1165 lbs | **HK2260354** | Price |
| 4 MT | 5/8 | 2-5/8 | 3/8 | 15/16 | 3-7/8 | 60 Degree | 4000 | 685 lbs | **HK2260264** | Price |
| 5 MT | 3/4 | 3-1/2 | 3/8 | 1-1/8 | 4-5/8 | 60 Degree | 3500 | 1165 lbs | **HK2260355** | Price |

## Riten Advantage Live Centers - Tracer & Long Points

- Accuracy guaranteed to ± .00005
- Heavy-duty Tri-bearing design
- Points are through-hardened to 61-63 Rc
- Three angular contact bearings for superior performance
- Full length spindle for extra rigidity
- Bodies are heat treated for additional strength
- Riten full service and repair apply






| Point Style - Long Point | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Taper | A (in.) | B (in.) | C (in.) | D (in.) | I (in.) | V2 | Max. RPM | Radial Load | Order No. | Price |
| 2 MT | 3/8 | 2 | 3/4 | 2-5/8 | 1-11/16 | 30 Degree | - | 310 lbs | **HK2251102** | Price |
| 3 MT | 3/8 | 2 | 3/4 | 2-5/8 | 1-11/16 | 30 Degree | - | 310 lbs | **HK2251103** | Price |
| 4 MT | 1/2 | 2-1/2 | 15/16 | 3-3/16 | 2-1/16 | 30 Degree | - | 1100 lbs | **HK2251104** | Price |
| 5 MT | 1/2 | 2-1/2 | 15/16 | 3-3/16 | 2-1/16 | 39 Degree | - | 1100 lbs | **HK2251105** | Price |

| Point Style - Tracer | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Taper | A (in.) | B (in.) | C (in.) | D (in.) | I (in.) | V2 | Max. RPM | Radial Load | Order No. | Price |
| 2 MT | 3/8 | 1-3/4 | 1-3/4 | 2-5/8 | 3/8 | 30 Degree | 5000 | 750 lbs | **HK2251902** | Price |
| 3 MT | 3/8 | 1-3/4 | 1-3/4 | 2-5/8 | 3/8 | 30 Degree | 5000 | 750 lbs | **HK2251903** | Price |
| 4 MT | 9/16 | 2-1/16 | 2-7/8 | 3-3/16 | 1/2 | 30 Degree | 4200 | 1700 lbs | **HK2251904** | Price |
| 5 MT | 9/16 | 2-1/16 | 2-7/8 | 3-3/16 | 1/2 | 30 Degree | 4200 | 1700 lbs | **HK2251905** | Price |
| 6 MT | 5/8 | 2-25/32 | 3-3/4 | 3-27/32 | 1/2 | 30 Degree | 4000 | 7100 lbs | **HK2251906** | Price |

## ROHM Type 680-50 Face Drivers

- Basic body with Morse Taper Slip on driving discs
- Slip on driving discs
- Clamping diamter 0.315 to 3.150 inches
- All basic bodies without centers



| Taper | Weight (lbs.) | Order No. | Price |
|---|---|---|---|
| 3 MT | 3.52 | **HK8088173** | Price |
| 4 MT | 3.96 | **HK8088174** | Price |
| 5 MT | 6.16 | **HK8088175** | Price |

## ROHM Type 680-65 Face Drivers

- Basic body for clamping in lathe chuck
- With spring set
- Slip on driving discs
- All basic bodies without centers
- Clamping diameter 0.315 to 3.150 inches



| Dia. (in.) | Weight (lbs.) | Order No. | Price |
|---|---|---|---|
| 3.35 | 5.06 | **HK8088074** | Price |

## ROHM Type 688-87 Adapter Plates

- Adapter plates without spring set (for CoA, type 680-60 and CoK)
- Slip on driving discs
- All basic bodies without centers
- Clamping diameter 0.315 to 3.150 inches



| Taper | Weight | Order No. | Price |
|---|---|---|---|
| A5 | 4.5 kg | **HK8088485** | Price |
| A6 | 5.8 kg | **HK8088486** | Price |
| A8 | 10.7 kg | **HK8088487** | Price |
| A11 | 22 kg | **HK8088488** | Price |
| D1-6 | 5.8 kg | **HK8088496** | Price |
| D1-8 | 10.7 kg | **HK8088497** | Price |
| D1-11 | 22 kg | **HK8088498** | Price |

## ROHM Type 680-55 Face Drivers

- Basic body with Morse Taper
- Slip on driving discs
- All basic bodies without centers
- Clamping diameter 0.315 to 3.150 inches
- With draw-off nut



| Taper | Weight (lbs.) | Order No. | Price |
|---|---|---|---|
| 3 MT | 3.96 | **HK8088177** | Price |
| 4 MT | 4.84 | **HK8088178** | Price |
| 5 MT | 6.6 | **HK8088179** | Price |

## ROHM Type 681-85 Face Drivers

- Basic body with short taper
- Slip on driving discs
- All basic bodies without centers
- Clamping diameter 0.315 to 3.150 inches
- Mechanical compensation
- With spring set



| Taper | Weight (lbs.) | Order No. | Price |
|---|---|---|---|
| A5 | 14.3 | **HK80313905** | Price |
| A6 | 15.4 | **HK80313906** | Price |
| A8 | 17.82 | **HK80313907** | Price |

## ROHM Type 680-60 Flange Type

- Basic body flange type with cylindrical center mount
- Slip on driving discs
- All basic bodies without centers
- Clamping diameter 0.315 to 3.150 inches
- Dia. 3.937, with spring set



| Dia. (in.) | Weight (lbs.) | Order No. | Price |
|---|---|---|---|
| 3.937 | 16.06 | **HK8088046** | Price |

## DORIAN TOOL Positive Pipe Drivers

- Heat treated alloy steel
- Holds the driving blades with a positive rake
- Blade slots are 45° to maximize grip & driving force

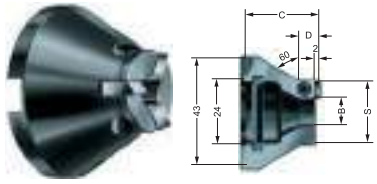


| Description | Dia. (in.) | Center Dia. (in.) | Clamping Dia. (in.) | Inside Dia. (in.) | No. of Blades Included | Order No. | Price |
|---|---|---|---|---|---|---|---|
| DPD045-150 | 5.91 | 1.77 | 2.76 | - | 6 | **GG3548540** | Price |
| DPD095-200 | 7.87 | 3.74 | 4.72 | 1.81 | 6 | **GG3548541** | Price |
| DPD195-300 | 11.81 | 7.68 | 7.76 | 4.06 | 9 | **GG3548542** | Price |
| DPD295-400 | 15.75 | 11.61 | 7.76 | 4.06 | 12 | **GG3548543** | Price |
| DPD395-500 | 19.69 | 15.55 | 11.69 | 7.99 | 12 | **GG3548544** | Price |
| DPD495-600 | 23.62 | 19.49 | 11.69 | 7.99 | 15 | **GG3548545** | Price |

## 680 Series Interchangeable Metal Driving Discs

### 6 x 3.2mm Plates

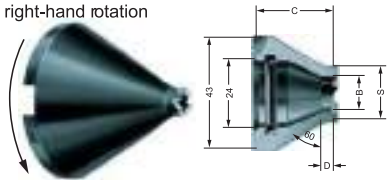
| | | | | | | LH Rotation Driving Disc | | RH Rotation Driving Disc | |
|---|---|---|---|---|---|---|---|---|---|
| Clamping Dia. (in.) | Turning Dia. (in.) | B (in.) | C (in.) | D (in.) | Center Dia. (in.) | Order No. | Price | Order No. | Price |
| .787 | .827 - 1.575 | .276 | 1.181 | .197 | .236 | **HK8089085** | Price | **HK8089065** | Price |
| .984 | 1.024 - 1.969 | .433 | 1.181 | .315 | .394 | **HK8089086** | Price | **HK8089066** | Price |
| 1.260 | 1.299 - 2.520 | .689 | 1.181 | .394 | .630 | **HK8089087** | Price | **HK8089067** | Price |




## 680 Series Integral Tooth Driving Discs

### One Piece Design

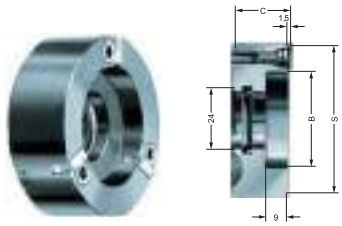
| | | | | | | LH Rotation Driving Disc | | RH Rotation Driving Disc | |
|---|---|---|---|---|---|---|---|---|---|
| Clamping Dia. (in.) | Turning Dia. (in.) | B (in.) | C (in.) | D (in.) | Center Dia. (in.) | Order No. | Price | Order No. | Price |
| .315 | .354 - .630 | .177 | 1.496 | .157 | .157 | **HK8088081** | Price | **HK8088061** | Price |
| .394 | .433 - .787 | .177 | 1.496 | .157 | .157 | **HK8088082** | Price | **HK8088062** | Price |
| .472 | .512 - .945 | .276 | 1.417 | .157 | .236 | **HK8088083** | Price | **HK8088063** | Price |
| .629 | .669 - 1.260 | .433 | 1.299 | .157 | .394 | **HK8088084** | Price | **HK8088064** | Price |
| .787 | .827 - 1.575 | .512 | 1.181 | .157 | .472 | **HK8088085** | Price | **HK8088065** | Price |
| .984 | 1.024 - 1.969 | .669 | 1.181 | .315 | .630 | **HK8088086** | Price | **HK8088066** | Price |
| 1.260 | 1.299 - 2.520 | .866 | 1.181 | .394 | .630 | **HK8088087** | Price | **HK8088067** | Price |



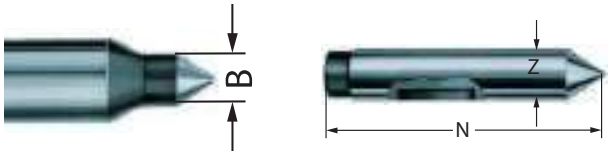

## 680 Series 4 Sided Interchangeable Driving Discs

### 9.5 x 3.2mm Plates

| | | | | | | LH Rotation Driving Disc | | RH Rotation Driving Disc | |
|---|---|---|---|---|---|---|---|---|---|
| Clamping Dia. (in.) | Turning Dia. (in.) | B (in.) | C (in.) | D (in.) | Center Dia. (in.) | Order No. | Price | Order No. | Price |
| 1.575 | 1.614 - 3.150 | .787 | .945 | .394 | .630 | **HK8088088** | Price | **HK8088068** | Price |
| 1.969 | 2.008 - 3.937 | 1.102 | .945 | - | .630 | **HK8088089** | Price | **HK8088069** | Price |
| 2.480 | 2.520 - 4.961 | 1.614 | .945 | - | .630 | **HK8088090** | Price | **HK8088070** | Price |
| 3.150 | 3.189 - 6.299 | 2.283 | .945 | - | .630 | **HK8088091** | Price | **HK8088071** | Price |

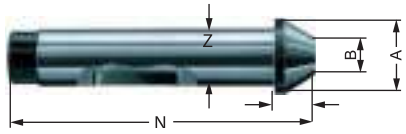



## Standard Centers for Face Drivers




| Series | Nose (B) | Center Dia. (Z) | Center Length (N) | Order No. | Price |
|---|---|---|---|---|---|
| 680-40 | .157 | .630 | 3.54 | **HK8088351** | Price |
| 680-40 | .236 | .630 | 3.54 | **HK8088352** | Price |
| 680-40 | .394 | .630 | 3.54 | **HK8088353** | Price |
| 680-40 | .472 | .630 | 3.54 | **HK8088354** | Price |
| 680-40 | .630 | .630 | 3.54 | **HK8088355** | Price |

## Standard Centers with Head for Face Drivers




| Series | Nose (B) | Taper (A) | Center Dia. (Z) | Center Length (N) | Order No. | Price |
|---|---|---|---|---|---|---|
| 680-45 | .394 | .827 | .630 | 3.54 | **HK8086619** | Price |
| 680-45 | .630 | 1.06 | .630 | 3.54 | **HK8086620** | Price |
| 680-45 | .905 | 1.34 | .630 | 3.54 | **HK80688878** | Price |
| 680-45 | 1.14 | 1.58 | .630 | 3.54 | **HK8086621** | Price |
| 680-45 | 1.46 | 1.89 | .630 | 3.54 | **HK80688880** | Price |

## Set Screws & O-Rings

| Type - Face Driver O-Ring | | |
|---|---|---|
| Size | Order No. | Price |
| 21.82 x 3.53mm | **HK806252** | Price |

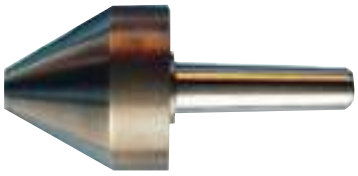
| Type - Face Driver Set Screw | | |
|---|---|---|
| Size | Order No. | Price |
| M4 x 6mm | **HK80234695** | Price |
| M5 x 8mm | **HK8048205** | Price |
| M5 x 8mm | **HK8088205** | Price |

## Replacement Drive Plates

| Size | Order No. | Price |
|---|---|---|
| 6 x 3.2mm | **HK8088810** | Price |
| 9.5 x 3.2mm | **HK8088209** | Price |

## Roughing Bull Nose Live Centers

- For heavy cuts
- Designed for working large piece parts, castings and forgings
- Large workpiece center holes



| Style - Extra Heavy Duty | | | | | | | |
|---|---|---|---|---|---|---|---|
| Taper | Head Dia. (in.) | Point Dia. (in.) | Neck Width (in.) | Head Length (in.) | Radial Load (lbs.) | Order No. | Price |
| 5 MT | 10-1/2 | 5 | 7/16 | 7-7/16 | 7000 lbs | **HK2256105** | Price |
| 5 MT | 9 | 4 | 15/32 | 6-5/8 | 7000 lbs | **HK2256945** | Price |
| 6 MT | 10-1/2 | 5 | 7/16 | 7-7/16 | 15000 lbs | **HK2256106** | Price |
| 6 MT | 12 | 6 | 7/16 | 7-7/16 | 15000 lbs | **HK2256126** | Price |
| 6 MT | 9 | 4 | 15/32 | 6-5/8 | 12000 lbs | **HK2256946** | Price |
| 7 MT | 10-1/2 | 5 | 7/16 | 7-7/16 | 15000 lbs | **HK2256107** | Price |
| 7 MT | 12 | 6 | 7/16 | 7-7/16 | 15000 lbs | **HK2256127** | Price |

| Style - Heavy Duty | | | | | | | |
|---|---|---|---|---|---|---|---|
| Taper | Head Dia. (in.) | Point Dia. (in.) | Neck Width (in.) | Head Length (in.) | Radial Load (lbs.) | Order No. | Price |
| 2 MT | 4 | 1 | 3/8 | 4-9/32 | 2000 lbs | **HK2256412** | Price |
| 3 MT | 4 | 1 | 3/8 | 4-9/32 | 3800 lbs | **HK2256413** | Price |
| 3 MT | 5 | 2 | 3/8 | 3-13/16 | 3800 lbs | **HK2256523** | Price |
| 3 MT | 6-1/2 | 3 | 3/8 | 3-29/32 | 3800 lbs | **HK2256633** | Price |
| 4 MT | 4 | 1 | 3/8 | 4-9/32 | 4800 lbs | **HK2256414** | Price |
| 4 MT | 5 | 2 | 3/8 | 3-13/16 | 4800 lbs | **HK2256524** | Price |
| 4 MT | 6-1/2 | 3 | 3/8 | 3-29/32 | 4800 lbs | **HK2256634** | Price |
| 5 MT | 4 | 1 | 3/8 | 4-9/32 | 4800 lbs | **HK2256415** | Price |
| 5 MT | 5 | 2 | 3/8 | 3-13/16 | 4800 lbs | **HK2256525** | Price |
| 5 MT | 6-1/2 | 3 | 3/8 | 3-29/32 | 4800 lbs | **HK2256635** | Price |
| 6 MT | 6-1/2 | 3 | 25/32 | 4-5/16 | 4800 lbs | **HK2256636** | Price |

## Heavy Duty Pipe Nose Live Centers

- Full 60° taper
- Hardened body, shaft and taper
- Heavy duty
- Combination live center and tube center
- High runout accuracy



| Taper | A (in.) | B (in.) | G (in.) | Radial Load | Order No. | Price |
|---|---|---|---|---|---|---|
| 2 MT | 2.402 | 1.654 | .700 | 440 lbs | **HK80010613** | Price |
| 3 MT | 3.110 | 2.205 | .938 | 880 lbs | **HK80010635** | Price |
| 4 MT | 3.937 | 2.520 | 1.231 | 1760 lbs | **HK80010638** | Price |
| 5 MT | 4.547 | 3.071 | 1.748 | 3520 lbs | **HK80010642** | Price |

## Heavy Duty Pipe Nose Live Centers

- One center fits a wide range of sizes
- For the best support and chatter-free parts, choose a center where the part will seat as close to the large diameter as possible
- Accuracy guaranteed to .00025 T.I.R.
- For use with pipe, tubing, and thin walled piece parts

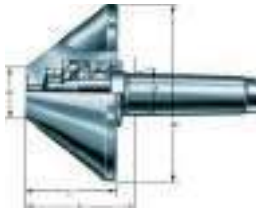


| Taper | Head Dia. (in.) | Neck Width (in.) | Head Length (in.) | Radial Load | Order No. | Price |
|---|---|---|---|---|---|---|
| 2 MT | 2-1/2 | 5/16 | 3-3/4 | 260 lbs | **HK2265252** | Price |
| 3 MT | 2-1/2 | 5/16 | 3-3/4 | 260 lbs | **HK2265253** | Price |
| 3 MT | 3-1/2 | 7/16 | 4-29/32 | 1500 lbs | **HK2265353** | Price |
| 3 MT | 4-1/2 | 7/16 | 4-7/8 | 1500 lbs | **HK2265453** | Price |
| 4 MT | 2-1/2 | 5/16 | 3-3/4 | 260 lbs | **HK2265254** | Price |
| 4 MT | 3-1/2 | 7/16 | 4-29/32 | 1500 lbs | **HK2265354** | Price |
| 4 MT | 4-1/2 | 7/16 | 4-7/8 | 1500 lbs | **HK2265454** | Price |
| 5 MT | 3-1/2 | 7/16 | 4-29/32 | 1500 lbs | **HK2265355** | Price |
| 5 MT | 4-1/2 | 7/16 | 4-7/8 | 1500 lbs | **HK2265455** | Price |
| 5 MT | 5-1/2 | 3/8 | 6-5/16 | 4500 lbs | **HK2265555** | Price |
| 6 MT | 5-1/2 | 3/8 | 6-5/16 | 4500 lbs | **HK2265556** | Price |

## Watts & Liberty Bull Nose Live Centers

### 60° and 75° Included Angle

- Heavy duty bearings for high load bearing capacity
- Hardened body, shaft and taper
- High runout accuracy
- Truncated 60° and 75° taper
- For machining of tubes and pipes



| Brand Name - Rohm Point Style - 60 Degree Bull Nose | | | | | | | |
|---|---|---|---|---|---|---|---|
| Taper | A ( in./ lbs.) | B (in.) | D (in.) | E (in.) | Radial Load (lbs.) | Order No. | Price |
| 2 MT | 2.559 lbs | 1.969 | .787 | 2.047 | 440 lbs | **HK80301616** | Price |
| 3 MT | 3.031 lbs | 3.150 | 1.181 | 2.520 | 880 lbs | **HK80301557** | Price |
| 3 MT | 3.799 lbs | 4.724 | 1.181 | 3.268 | 1320 lbs | **HK80221605** | Price |
| 4 MT | 3.091 lbs | 3.150 | 1.181 | 2.520 | 880 lbs | **HK80301558** | Price |
| 4 MT | 3.858 lbs | 4.724 | 1.181 | 3.268 | 1760 lbs | **HK80044023** | Price |
| 5 MT | 3.898 lbs | 4.724 | 1.181 | 3.268 | 1760 lbs | **HK80090483** | Price |

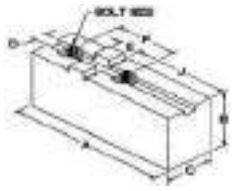
| Brand Name - Rohm Point Style - 75 Degree Bull Nose | | | | | | | |
|---|---|---|---|---|---|---|---|
| Taper | A ( in./ lbs.) | B (in.) | D (in.) | E (in.) | Radial Load (lbs.) | Order No. | Price |
| 4 MT | 4.213 lbs | 6.693 | 1.969 | 3.543 | 2640 lbs | **HK80062299** | Price |
| 5 MT | 4.173 lbs | 6.693 | 1.969 | 3.543 | 3520 lbs | **HK80063614** | Price |
| 5 MT | 5.768 lbs | 9.843 | 2.953 | 5.118 | 4400 lbs | **HK80063662** | Price |
| 6 MT | 7.244 lbs | 13.780 | 4.724 | 6.614 | 8800 lbs | **HK80063680** | Price |

| Brand Name - Royal Products Point Style - 75 Degree Bull Nose | | | | | | | |
|---|---|---|---|---|---|---|---|
| Taper | A ( in./ lbs.) | B (in.) | D (in.) | E (in.) | Radial Load (lbs.) | Order No. | Price |
| 6 MT | - | 10 | 4 | - | 6000 lbs | **HK2612949** | Price |

| Brand Name - Watts Point Style - 60 Degree Bull Nose | | | | | | | |
|---|---|---|---|---|---|---|---|
| Taper | A ( in./ lbs.) | B (in.) | D (in.) | E (in.) | Radial Load (lbs.) | Order No. | Price |
| 2 MT | 1500 lbs | - | 1-1/4 | 4 | 2740 lbs | **HK25B24** | Price |

## H&R Mfg. and Supply, Inc. Medium Duty Soft Top Jaws
## American Standard Tongue & Groove (A.S.T.G.)

MADE IN THE USA



- For Chucks Made by Bergman, Bison, Buck, Cushman, Huron, Rohm, Forkhardt, Pratt Burnerd America, SCA, SP, W&S, Nobel & Yuasa
- All Jaws are made from 1018 mild steel
- **PRICED EACH SOLD ONLY IN MATCHED SETS OF 3**

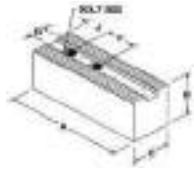
| Description - Extra Height | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chuck Size (in.) | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | Bolt (in.) | J (in.) | Style | Order No. | Price |
| - | 3-3/8 | 3-3/8 | 8 | .313 | .500 | 1.750 | - | 2-3/16 | - | HF70HR8MEH0P | Price |
| 12 | 5-3/8 | 3-7/8 | 12 | .500 | .750 | 2.500 | - | 3-1/8 | Medium Duty Soft Top Jaw | HF70HR12MEHO | Price |
| 12 | 5-3/8 | 3-7/8 | 1-3/4 | .500 | .750 | 2.500 | - | 3-1/8 | Medium Duty Soft Top Jaw | HF70HR12MEH0P | Price |
| 15 | 6-1/4 | 3-13/16 | 15 | .500 | .750 | 3.000 | - | 3-5/8 | Medium Duty Soft Top Jaw | HF70HR15MEHO | Price |
| 18 | 6-3/8 | 4-13/16 | 18 | .500 | .750 | 3.000 | - | 3-3/4 | Medium Duty Soft Top Jaw | HF70HR18MEHO | Price |
| 8 | 3-3/4 | 3-3/8 | 8 | .313 | .500 | 1.750 | - | 2-3/16 | Medium Duty Soft Top Jaw | HF70HR8MEHO | Price |
| 6 | 2-5/8 | 3-3/8 | 1-1/4 | .313 | .500 | 1.500 | 3/8 | 1-1/8 | Regular Jaw | HF70HR471 | Price |
| 6 | 3-3/16 | 3-3/8 | 1-1/4 | .313 | .500 | 1.500 | 3/8 | 1-11/16 | Pointed Jaw | HF70HR483P | Price |
| 8** | 3-1/2 | 3-3/8 | 1-1/4 | .313 | .500 | 1.750 | 3/8 | 1-5/8 | Regular Jaw | HF70HR474 | Price |
| 8** | 3-15/16 | 3-3/8 | 1-1/4 | .313 | .500 | 1.750 | 3/8 | 2-1/4 | Pointed Jaw | HF70HR486P | Price |
| 10** | 4-1/4 | 3-3/8 | 1-1/2 | .500 | .750 | 2.120 | 1/2 | 1-15/16 | Regular Jaw | HF70HR476 | Price |
| 10** | 4-13/16 | 3-3/8 | 1-1/2 | .500 | .750 | 2.120 | 1/2 | 2-11/16 | Pointed Jaw | HF70HR488P | Price |
| 12** | 4-7/8 | 3-7/8 | 1-3/4 | .500 | .750 | 2.500 | 1/2 | 2-5/16 | Regular Jaw | HF70HR478 | Price |
| 12** | 5-3/4 | 3-7/8 | 1-3/4 | .500 | .750 | 2.500 | 1/2 | 3-3/8 | Pointed Jaw | HF70HR490P | Price |
| 15*** | 7-1/4 | 3-13/16 | 2 | .500 | .750 | 3.000 | 5/8 | 4-1/2 | Pointed Jaw | HF70HR495P | Price |
| 18-21*** | 5-5/8 | 3-13/16 | 2 | .500 | .750 | 3.000 | 3/4 | 2-3/4 | Regular Jaw | HF70HR481† | Price |
| 15*** | 5-5/8 | 3-13/16 | 2 | .500 | .750 | 3.000 | 5/8 | 2-3/4 | Regular Jaw | HF70HR480 | Price |
| 18-21*** | 7-1/4 | 4-13/16 | 2-1/2 | .500 | .750 | 3.000 | 3/4 | 4-1/2 | Pointed Jaw | HF70HR520P† | Price |
| 24-36*** | 5-5/8 | 4-13/16 | 2-1/2 | .500 | .750 | 3.000 | 3/4 | 2-3/4 | Regular Jaw | HF70HR482† | Price |

| Description - Standard Height | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chuck Size (in.) | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | Bolt (in.) | J (in.) | Style | Order No. | Price |
| 10 | 3-5/16 | 1-7/8 | 10 | .500 | .750 | 2.125 | - | Center | Medium Duty Soft Top Jaw | HF70HR10MSH | Price |
| 12 | 4-1/2 | 2-1/8 | 12 | .500 | .750 | 2.500 | - | Center | Medium Duty Soft Top Jaw | HF70HR12MSH | Price |
| 12 | 5-3/8 | 2-1/8 | 12 | .500 | .750 | 2.500 | - | 3-1/8 | Medium Duty Soft Top Jaw | HF70HR12MSHO | Price |
| 12 | 5-3/8 | 2-1/8 | 1-3/4 | .500 | .750 | 2.500 | - | 3-1/8 | Medium Duty Soft Top Jaw | HF70HR12MSH0P | Price |
| 15 | 6-1/4 | 2-5/16 | 15 | .500 | .750 | 3.000 | - | 3-5/8 | Medium Duty Soft Top Jaw | HF70HR15MSHO | Price |
| 16-20 | 6-1/4 | 3.00 | 16-20 | 1.004 | - | 1.562 | - | 1-7/16 | Serrated Soft Top Jaw | HF70HR4016 | Price |
| 16-20 | 8 | 3.00 | 16-20 | 1.004 | - | 1.562 | - | 1-3/8 | Serrated Soft Top Jaw | HF70HR4216 | Price |
| 18 | 6-3/8 | 2-13-16 | 18 | .500 | .750 | 3.000 | - | 3-3/4 | Medium Duty Soft Top Jaw | HF70HR18MSHO | Price |
| 21 | 7 | 2-1/2 | 21 | .984 | - | 2.362 | - | 1.550 | Serrated Soft Top Jaw | HF70HR21325 | Price |
| 25-31 1/2 | 11 | 3-1/2 | 25-31 1/2 | 1.181 | - | 2.500 | - | 1.500 | Serrated Soft Top Jaw | HF70HR4225 | Price |
| 6 | 3-1/4 | 1-3/8 | 6 | .313 | .500 | 1.500 | - | 1-13/16 | Medium Duty Soft Top Jaw | HF70HR6MSHO | Price |
| 8 | 3-3/4 | 1-7/8 | 8 | .313 | .500 | 1.750 | - | 2-3/16 | Medium Duty Soft Jaws | HF70HR8MSH0P | Price |
| 8 | 3-3/4 | 1-7/8 | 8 | .313 | .500 | 1.750 | - | 2-3/16 | Medium Duty Soft Top Jaw | HF70HR8MSHO | Price |
| 6 | 2-5/8 | 1-5/8 | 1-1/4 | .313 | .500 | 1.500 | 3/8 | 1-1/8 | Regular Jaw | HF70HR447 | Price |
| 6 | 3-3/16 | 1-5/8 | 1-1/4 | .313 | .500 | 1.500 | 3/8 | 1-11/16 | Pointed Jaw | HF70HR459P | Price |
| 10** | 4-1/4 | 1-7/8 | 1-1/2 | .500 | .750 | 2.120 | 1/2 | 1-15/16 | Regular Jaw | HF70HR452 | Price |
| 10** | 4-13/16 | 1-7/8 | 1-1/2 | .500 | .750 | 2.120 | 1/2 | 2-11/16 | Pointed Jaw | HF70HR464P | Price |
| 12** | 4-7/8 | 2-3/8 | 1-3/4 | .500 | .750 | 2.500 | 1/2 | 2-5/16 | Regular Jaw | HF70HR454 | Price |
| 12** | 5-3/4 | 2-3/8 | 1-3/4 | .500 | .750 | 2.500 | 1/2 | 3-3/8 | Pointed Jaw | HF70HR466P | Price |
| 15*** | 5-5/8 | 2-5/16 | 2 | .500 | .750 | 3.000 | 5/8 | 2-3/4 | Regular Jaw | HF70HR456 | Price |
| 15*** | 7-1/4 | 2-5/16 | 2 | .500 | .750 | 3.000 | 5/8 | 4-1/2 | Pointed Jaw | HF70HR468P | Price |
| 18-21*** | 5-5/8 | 2-5/16 | 2 | .500 | .750 | 3.000 | 3/4 | 2-3/4 | Regular Jaw | HF70HR457† | Price |
| 18-21*** | 7-1/4 | 3-5/16 | 2-1/2 | .500 | .750 | 3.000 | 3/4 | 4-1/2 | Pointed Jaw | HF70HR519P† | Price |
| 24-36*** | 5-5/8 | 3-5/16 | 2-1/2 | .500 | .750 | 3.000 | 3/4 | 2-3/4 | Regular Jaw | HF70HR458† | Price |
| 8** | 3-1/2 | 1-5/8 | 1-1/4 | .313 | .500 | 1.750 | 3/8 | 1-5/8 | Regular Jaw | HF70HR450 | Price |
| 8** | 3-15/16 | 1-5/8 | 1-1/4 | .313 | .500 | 1.750 | 3/8 | 2-1/4 | Pointed Jaw | HF70HR462P | Price |

**P=Pointed Jaw **=1/8" Tongue Height ***=3/16" Tongue Height †Medium Duty and Heavy Duty Jaws are the Same**

## H&R Mfg. and Supply, Inc. Metric Serrated Square & Pointed Soft Jaws
### 1.5mm (.0591) @ 60 Degree Serration (2 Holes)





- For Chucks Made by Kitagawa, Matsumoto, Howa & Seike
- All Jaws are made from 1018 mild steel
- Acme and Square serrated keyed hard top jaws and soft jaws available
- **PRICED EACH SOLD ONLY IN MATCHED SETS OF 3**

| Style - Pointed Jaw | | | | | | |
|---|---|---|---|---|---|---|
| Chuck Size (in.) | B (in.) | C (in.) | J (in.) | Bolt | Order No. | Price |
| 10 | 2-1/2 | 10 | .650 | - | HF70HR82500P | Price |
| 15/18 | 2-1/2 | 15 | 1.400 | - | HF70HR15525OP | Price |
| 4 | 1 | 1 | .375 | 5mm | HF70HR4K10P | Price |
| 5 | 1-1/2 | 1 | - | 8mm | HF70HR13515P | Price |
| 6 | 1-1/2 | 1-1/4 | .438 | 10mm | HF70HR6K15P | Price |
| 6 | 2.00 | 1-1/4 | .438 | 10mm | HF70HR6K20P | Price |
| 6 | 3.00 | 1-1/4 | .438 | 10mm | HF70HR6K30P | Price |
| 6 | 1-1/2 | 1 | .438 | 8mm | HF70HR6B15P | Price |
| 6 | 2.00 | 1 | .438 | 8mm | HF70HR6B20P | Price |
| 8 | 2.00 | 1-1/2 | .781 | 1/2 | HF70HR149200P | Price |
| 10 | 2.00 | 1-3/4 | .650 | 1/2 | HF70HR8220OP | Price |
| 10 | 2-1/2 | 1-3/4 | .650 | 1/2 | HF70HR8225OP | Price |
| 12 | 2.00 | 2 | 1.188 | 9/16 | HF70HR108200P | Price |
| 12 | 2-1/2 | 2 | 1.188 | 16mm | HF70HR11225OP | Price |

| Style - Regular Jaw | | | | | | |
|---|---|---|---|---|---|---|
| Chuck Size (in.) | B (in.) | C (in.) | J (in.) | Bolt | Order No. | Price |
| 10 | 5 | 10 | .650 | - | HF70HR8250 | Price |
| 12 | 5 | 12 | - | - | HF70HR11250 | Price |
| 8 | 1-1/2 | 1-1/2 | .781 | 1/2 | HF70HR14915 | Price |
| 8 | 2.00 | 1-1/2 | .781 | 1/2 | HF70HR14920 | Price |

| Style - Regular Jaw | | | | | | |
|---|---|---|---|---|---|---|
| Chuck Size (in.) | B (in.) | C (in.) | J (in.) | Bolt | Order No. | Price |
| 8 | 2-1/2 | 1-1/2 | .781 | 1/2 | HF70HR14925 | Price |
| 8 | 3-1/2 | 1-1/2 | .781 | 1/2 | HF70HR14935 | Price |
| 12 | 2-1/2 | 2 | 1.190 | 5/8 | HF70HR14725 | Price |
| 10 | 2.00 | 1-3/4 | .650 | 1/2 | HF70HR8220 | Price |
| 10 | 2-1/2 | 1-3/4 | .650 | 1/2 | HF70HR8225 | Price |
| 10 | 3-1/2 | 1-3/4 | .650 | 1/2 | HF70HR8235 | Price |
| 12 | 2.00 | 2 | 1.188 | 9/16 | HF70HR10820 | Price |
| 12 | 2-1/2 | 2 | 1.188 | 9/16 | HF70HR10825 | Price |
| 12 | 3-1/2 | 2 | 1.188 | 9/16 | HF70HR10835 | Price |
| 12 | 5.00 | 2 | 1.188 | 9/16 | HF70HR10850 | Price |
| 15 | 2-1/2 | 2-1/2 | 1.400 | 20mm | HF70HR15525 | Price |
| 15 | 3-1/2 | 2-1/2 | 1.400 | 20mm | HF70HR15535 | Price |
| 15 | 5.00 | 2-1/2 | 1.400 | 20mm | HF70HR15550 | Price |
| 12 | 2-1/2 | 2 | 1.188 | 16mm | HF70HR11225 | Price |
| 12 | 3-1/2 | 2 | 1.188 | 16mm | HF70HR11235 | Price |

| Style - Serrated Soft Top Jaw | | | | | | |
|---|---|---|---|---|---|---|
| Chuck Size (in.) | B (in.) | C (in.) | J (in.) | Bolt | Order No. | Price |
| 15/18 | 2-1/2 | 15 | 1.250 | - | HF70HR15325 | Price |
| 15/18 | 5.00 | 15 | 1.250 | - | HF70HR15350 | Price |

**P=Pointed Jaw**

## DillonManufacturing, Inc. Metric Serrated Pointed Soft Jaws

## 1.5mm (0.591) @ 60 Degree Serration (2 Holes)




- For Chucks Made by Kitagawa, Matsumoto, Howa & Seike
- All Jaws are made from 1018 mild steel
- Acme and Square serrated keyed hard top jaws and soft jaws available
- **PRICED EACH SOLD ONLY IN MATCHED SETS OF 3**

| Chuck Size (in.) | A (in.) | B (in.) | C (in.) | F (in.) | Bolt | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 6 | 1.50 | .472 | 1.25 | .787 | M10 | **DM85KW6P** | Price |
| 6 | 3.00 | .472 | 1.25 | .787 | M10 | **DM85KW6HP** | Price |
| 6.5 | 1.50 | .433 | 1.25 | .984 | M8 | **DM85MK3NE65P** | Price |
| 6.5 | 3.00 | .433 | 1.25 | .984 | M8 | **DM85MK3NE65HP** | Price |
| 8 | 2.00 | .630 | 1.50 | .984 | M12 | **DM85HW27M8P** | Price |
| 8 | 3.00 | .551 | 1.50 | .984 | M12 | **DM85KW83HP** | Price |
| 8 | 4.00 | .630 | 1.50 | .984 | M12 | **DM85HW27M8HP** | Price |
| 10 | 2.00 | .709 | 1.75 | 1.181 | M14 | **DM85HW27M10P** | Price |
| 10 | 2.00 | .630 | 1.50 | 1.260 | M12 | **DM85MK4NE600P** | Price |
| 10 | 3.00 | .630 | 1.75 | 1.181 | M12 | **DM85KW103HP** | Price |
| 10 | 4.00 | .630 | 1.50 | 1.260 | M12 | **DM85MK4NE600HP** | Price |
| 12 | 2.00 | .709 | 2.00 | 1.181 | M14 | **DM85KW12P** | Price |
| 12 | 2.00 | .827 | 2.00 | 1.181 | M16 | **DM85KW12BP** | Price |
| 12 | 3.00 | .827 | 2.00 | 1.181 | M16 | **DM85KW12B3HP** | Price |
| 12 | 2.50 | .709 | 2.00 | 1.181 | M14 | **DM85KW1255LP** | Price |
| 12 | 2.50 | .827 | 2.00 | 1.377 | M16 | **DM85HW27M12P** | Price |
| 12 | 4.00 | .827 | 2.00 | 1.377 | M16 | **DM85HW27M12HP** | Price |
| 12 | 4.00 | .709 | 2.00 | 1.181 | M14 | **DM85KW12HP** | Price |
| 12 | 4.00 | .827 | 2.00 | 1.181 | M16 | **DM85KW12BHP** | Price |
| 12 | 4.00 | .709 | 2.00 | 1.181 | M14 | **DM85KW1255LHP** | Price |
| 15 | 2.50 | .866 | 2.50 | 1.690 | M20 | **DM85KW15K25HP** | Price |
| 15 | 3.00 | 1.004 | 2.50 | 1.690 | M20 | **DM85KW15BP** | Price |
| 15 | 3.00 | .866 | 2.50 | 1.690 | M20 | **DM85KW15KP** | Price |
| 15 | 4.00 | .866 | 2.50 | 1.690 | M20 | **DM85KW15K4HP** | Price |
| 15 | 4.00 | 1.004 | 2.50 | 1.690 | M20 | **DM85KW15B4HP** | Price |
| 15 | 5.00 | 1.004 | 2.50 | 1.690 | M20 | **DM85KW15BHP** | Price |
| 15 | 5.00 | .866 | 2.50 | 1.690 | M20 | **DM85KW15KHP** | Price |

## DillonManufacturing, Inc. Metric Serrated Square Soft Jaws

## 1.5mm (0.591) @ 60 Degree Serration (2 Holes)

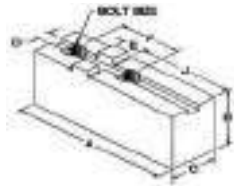



- For Chuck Brands Kitagawa, Samchully, Howa, Matsumoto (MMK), LMC and Autostrong
- All jaws made from1018 mild steel
- All jaws sold individually

| Chuck Size (in.) | A (in.) | B (in.) | C (in.) | F (in.) | Bolt | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 6 | 1.50 | .472 | 1.25 | .787 | M10 | **DM85KW6** | Price |
| 6 | 3.00 | .472 | 1.25 | .787 | M10 | **DM85KW6H** | Price |
| 6.5 | 1.50 | .433 | 1.25 | .984 | M8 | **DM85MK3NE65** | Price |
| 6.5 | 3.00 | .433 | 1.25 | .984 | M8 | **DM85MK3NE65H** | Price |
| 8 | 2.00 | .630 | 1.50 | .984 | M12 | **DM85HW27M8** | Price |
| 8 | 4.00 | .630 | 1.50 | .984 | M12 | **DM85HW27M8H** | Price |
| 8 | 2.00 | .551 | 1.50 | .984 | M12 | **DM85KW8** | Price |
| 8 | 3.00 | .551 | 1.50 | .984 | M12 | **DM85KW83H** | Price |
| 8 | 4.00 | .551 | 1.50 | .984 | M12 | **DM85KW8H** | Price |
| 10 | 2.00 | .709 | 1.75 | 1.181 | M14 | **DM85HW27M10** | Price |
| 10 | 4.00 | .709 | 1.75 | 1.181 | M14 | **DM85HW27M10H** | Price |
| 10 | 4.00 | .630 | 1.75 | 1.181 | M12 | **DM85KW10H** | Price |
| 10 | 3.00 | .630 | 1.75 | 1.181 | M12 | **DM85KW103H** | Price |
| 10 | 2.00 | .630 | 1.50 | 1.260 | M12 | **DM85MK4NE600** | Price |
| 10 | 4.00 | .630 | 1.50 | 1.260 | M12 | **DM85MK4NE600H** | Price |
| 12 | 2.50 | .827 | 2.00 | 1.377 | M16 | **DM85HW27M12** | Price |
| 12 | 4.00 | .827 | 2.00 | 1.377 | M16 | **DM85HW27M12H** | Price |
| 12 | 2.00 | .709 | 2.00 | 1.181 | M14 | **DM85KW12** | Price |
| 12 | 2.50 | .709 | 2.00 | 1.181 | M14 | **DM85KW1255L** | Price |
| 12 | 4.00 | .709 | 2.00 | 1.181 | M14 | **DM85KW1255LH** | Price |
| 12 | 2.00 | .827 | 2.00 | 1.181 | M16 | **DM85KW12B** | Price |
| 12 | 3.00 | .827 | 2.00 | 1.181 | M16 | **DM85KW12B3H** | Price |
| 12 | 2.50 | .827 | 2.00 | 1.181 | M16 | **DM85KW12B55L** | Price |
| 12 | 4.00 | .827 | 2.00 | 1.181 | M16 | **DM85KW12B55LH** | Price |
| 12 | 4.00 | .709 | 2.00 | 1.181 | M14 | **DM85KW12H** | Price |
| 15 | 3.00 | 1.004 | 2.50 | 1.690 | M20 | **DM85KW15B** | Price |
| 15 | 4.00 | 1.004 | 2.50 | 1.690 | M20 | **DM85KW15B4H** | Price |
| 15 | 5.00 | 1.004 | 2.50 | 1.690 | M20 | **DM85KW15BH** | Price |
| 15 | 3.00 | .866 | 2.50 | 1.690 | M20 | **DM85KW15K** | Price |
| 15 | 2.50 | .866 | 2.50 | 1.690 | M20 | **DM85KW15K25H** | Price |
| 15 | 4.00 | .866 | 2.50 | 1.690 | M20 | **DM85KW15K4H** | Price |
| 15 | 5.00 | .866 | 2.50 | 1.690 | M20 | **DM85KW15KH** | Price |

## H&R Mfg. and Supply, Inc. Heavy Duty Soft Top Jaws
## American Standard Tongue & Groove (A.S.T.G.)

MADE IN THE USA



- For Chucks Made by Bergman, Bison, Buck, Cushman, Huron, Rohm, Forkhardt, Pratt Burnerd America, SCA, SP, W&S, Nobel & Yuasa
- All Jaws are made from 1018 mild steel

**PRICED EACH SOLD ONLY IN MATCHED SETS OF 3**

| Description - Extra Height | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chuck Size (in.) | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | Bolt (in.) | J (in.) | Style | Order No. | Price |
| 10 | 4-5/8 | 3-7/8 | 10 | .500 | .750 | 2.125 | - | 2-5/8 | Heavy Duty Soft Top Jaw | **HF70HR10HEHO** | Price |
| 15 | 6-1/4 | 4-13/16 | 15 | .500 | .750 | 3.000 | - | 3-5/8 | Heavy Duty Soft Top Jaw | **HF70HR15HEHO** | Price |
| 21 | 6 | 3-5/16 | 3 | 1.250 | 1.531 | 3.000 | - | 2-5/8 | Pointed Jaw | **HF70HR21ACSH** | Price |
| 8 | 3-3/4 | 3-3/8 | 8 | .313 | .500 | 1.750 | - | 2-3/16 | Heavy Duty Soft Top Jaw | **HF70HR8HEHO** | Price |
| 18-21*** | 5-5/8 | 3-13/16 | 2 | .500 | .750 | 3.000 | 3/4 | 2-3/4 | Regular Jaw | **HF70HR481†** | Price |
| 10** | 4-1/2 | 3-7/8 | 1-3/4 | .500 | .750 | 2.120 | 5/8 | 1-15/16 | Regular Jaw | **HF70HR477** | Price |
| 10** | 4-13/16 | 3-7/8 | 1-3/4 | .500 | .750 | 2.120 | 5/8 | 2-11/16 | Pointed Jaw | **HF70HR489P** | Price |
| 12** | 4-7/8 | 3-7/8 | 2 | .500 | .750 | 2.500 | 5/8 | 2-5/16 | Regular Jaw | **HF70HR479** | Price |
| 12** | 5-3/4 | 3-7/8 | 2 | .500 | .750 | 2.500 | 5/8 | 3-3/8 | Pointed Jaw | **HF70HR491P** | Price |
| 15-36*** | 7-1/4 | 3-13/16 | 2 | .500 | .750 | 3.000 | 3/4 | 4-1/2 | Pointed Jaw | **HF70HR496P** | Price |
| 6** | 2-5/8 | 3-3/8 | 1-1/4 | .313 | .500 | 1.500 | 7/16 | 1-1/8 | Regular Jaw | **HF70HR472** | Price |
| 6** | 3-3/16 | 3-3/8 | 1-1/4 | .313 | .500 | 1.500 | 7/16 | 1-11/16 | Pointed Jaw | **HF70HR484P** | Price |
| 8** | 3-1/2 | 3-3/8 | 1-1/2 | .313 | .500 | 1.750 | 1/2 | 1-5/8 | Regular Jaw | **HF70HR475** | Price |
| 8** | 3-15/16 | 3-3/8 | 1-1/2 | .313 | .500 | 1.750 | 1/2 | 2-1/4 | Pointed Jaw | **HF70HR487P** | Price |

| Description - Standard Height | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chuck Size (in.) | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | Bolt (in.) | J (in.) | Style | Order No. | Price |
| 10 | 4-1/8 | 2-5/16 | 10 | .750 | 1.031 | 1.750 | - | 2-1/8 | Serrated Soft Top Jaw | **HF70HR10ACSH** | Price |
| 10 | 4-5/8 | 1-7/8 | 10 | .500 | .750 | 2.125 | - | 2-5/8 | Heavy Duty Soft Top Jaw | **HF70HR10HSHO** | Price |
| 12 | 5-1/8 | 2-5/16 | 12 | .875 | 1.031 | 2.000 | - | 2-7/8 | Serrated Soft Top Jaw | **HF70HR12ACSH** | Price |
| 12 | 5-3/8 | 2-1/8 | 12 | .500 | .750 | 2.500 | - | 3-1/8 | Heavy Duty Soft Top Jaw | **HF70HR12HSHO** | Price |
| 15 | 6 | 3-5/16 | 15/18 | 1.000 | 1.531 | 2.500 | - | 2-5/8 | Serrated Soft Top Jaw | **HF70HR15ACSH** | Price |
| 15 | 6-1/4 | 2-5/16 | 15 | .500 | .750 | 3.000 | - | 3-5/8 | Heavy Duty Soft Top Jaw | **HF70HR15HSHO** | Price |
| 18 | 6-3/8 | 2-13/16 | 18 | .500 | .750 | 3.000 | - | 3-3/4 | Heavy Duty Soft Top Jaw | **HF70HR18HSHO** | Price |
| 6 | 3-1/4 | 1-3/8 | 6 | .313 | .500 | 1.500 | - | 1-13/16 | Heavy Duty Soft Top Jaw | **HF70HR6HSHO** | Price |
| 10** | 4-1/2 | 2-3/8 | 1-3/4 | .500 | .750 | 2.120 | 5/8 | 1-15/16 | Regular Jaw | **HF70HR453** | Price |
| 10** | 4-13/16 | 2-3/8 | 1-3/4 | .500 | .750 | 2.120 | 5/8 | 2-11/16 | Pointed Jaw | **HF70HR465P** | Price |
| 12** | 4-7/8 | 2-3/8 | 2 | .500 | .750 | 2.500 | 5/8 | 2-5/16 | Regular Jaw | **HF70HR455** | Price |
| 12** | 5-3/4 | 2-3/8 | 2 | .500 | .750 | 2.500 | 5/8 | 3-3/8 | Pointed Jaw | **HF70HR467P** | Price |
| 15-36*** | 7-1/4 | 2-5/16 | 2 | .500 | .750 | 3.000 | 3/4 | 4-1/2 | Pointed Jaw | **HF70HR469P** | Price |
| 18-21*** | 5-5/8 | 2-5/16 | 2 | .500 | .750 | 3.000 | 3/4 | 2-3/4 | Regular Jaw | **HF70HR457†** | Price |
| 6** | 2-5/8 | 1-5/8 | 1-1/4 | .313 | .500 | 1.500 | 7/16 | 1-1/8 | Regular Jaw | **HF70HR448** | Price |
| 6** | 3-3/16 | 1-5/8 | 1-1/4 | .313 | .500 | 1.500 | 7/16 | 1-11/16 | Pointed Jaw | **HF70HR460P** | Price |
| 8** | 3-1/2 | 1-7/8 | 1-1/2 | .313 | .500 | 1.750 | 1/2 | 1-5/8 | Regular Jaw | **HF70HR451** | Price |
| 8** | 3-15/16 | 1-7/8 | 1-1/2 | .313 | .500 | 1.750 | 1/2 | 2-1/4 | Pointed Jaw | **HF70HR463P** | Price |

**P=Pointed Jaw **=1/8" Tongue Height ***=3/16" Tongue Height †Medium duty and heavy duty jaws are the same**

## Dillon Manufacturing, Inc. Full Wrap Aluminum Jaws

- For Chuck Brands Kitagawa, Samchully, Howa, Matsumoto (MMK), LMC and Autostrong
- All Full Grip jaws are sold in sets of three pieces

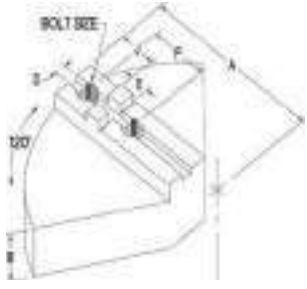


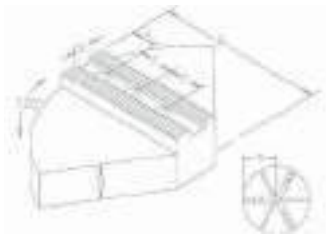
| Chuck Size (in.) | B (in.) | F (in.) | Order No. | Price |
|---|---|---|---|---|
| 6 | .472 | .787 | **DM85KW6FG** | Price |
| 6 | .472 | .787 | **DM85KW6HFG** | Price |
| 6.5 | .433 | .984 | **DM85MK3NE65FG** | Price |
| 6.5 | .433 | .984 | **DM85MK3NE65HFG** | Price |
| 8 | .551 | .984 | **DM85KW8HFG** | Price |
| 8 | .630 | .984 | **DM85HW27M8FG** | Price |
| 8 | .630 | .984 | **DM85HW27M8HFG** | Price |
| 10 | .630 | 1.181 | **DM85KW10HFG** | Price |
| 10 | .630 | 1.260 | **DM85MK4NE600FG** | Price |
| 10 | .630 | 1.260 | **DM85MK4NE600HFG** | Price |
| 10 | .709 | 1.181 | **DM85HW27M10FG** | Price |
| 10 | .709 | 1.181 | **DM85HW27M10HFG** | Price |
| 12 | .709 | 1.181 | **DM85KW12HFG** | Price |
| 12 | .709 | 1.181 | **DM85KW12FG** | Price |
| 12 | .827 | 1.181 | **DM85KW12BHFG** | Price |
| 12 | .827 | 1.377 | **DM85HW27M12FG** | Price |
| 12 | .827 | 1.377 | **DM85HW27M12HFG** | Price |
| 15 | .866 | 1.690 | **DM85KW15KFG** | Price |
| 15 | 1.004 | 1.690 | **DM85KW15BFG** | Price |
| 15 | 1.004 | 1.690 | **DM85KW15BHFG** | Price |
| 15 | .866 | 1.690 | **DM85KW15KHFG** | Price |

## H&R Mfg. and Supply, Inc. Full Wrap Aluminum Jaws

- Full wrap jaws are used for round and thin wall parts where pressure is applied around the entire part I.D. & O.D.
- They are NOT made out of castings, therefore there are NO sand pockets, resulting in a better quality product
- **1.5mm (.0591) @ 60° Serration for:** Kitagawa, Nikko, Matsumoto, Howa & Seike

**PRICED EACH SOLD ONLY IN MATCHED SETS OF 3**

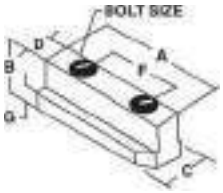


| Chuck Size (in.) | B (in.) | F (in.) | Order No. | Price |
|---|---|---|---|---|
| 6 | .433 | .969 | **HF70HR6B2AL** | Price |
| 6 | .475 | .787 | **HF70HR6K2AL** | Price |
| 8 | .551 | 1.000 | **HF70HR1492AL** | Price |
| 10 | .630 | 1.181 | **HF70HR822AL** | Price |
| 12 | .709 | 1.181 | **HF70HR1082AL** | Price |
| 12 | .827 | 1.181 | **HF70HR1122AL** | Price |

## Dillon Manufacturing, Inc. Jaw Nuts

- **PRICED EACH SOLD INDIVIDUALLY**
- Jaw Nuts comes with screws
- Made from 4140 PHT

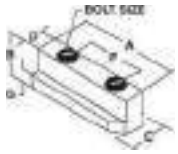



| Chuck Size | F (in.) | Order No. | Price |
|---|---|---|---|
| 6 | .787 | DM85KW6JN | Price |
| 6 | .787 | DM85KW6JN7 | Price |
| 6.5 | .984 | DM85MK3NE65JN | Price |
| 8 | .984 | DM85KW8JN | Price |
| 8 | .984 | DM85KW8JN9 | Price |
| 8 | .984 | DM85HW27M8JN | Price |
| 10 | 1.181 | DM85KW10JN | Price |
| 10 | 1.181 | DM85HW27M10JN | Price |
| 10 | 1.181 | DM85KW10JN11 | Price |
| 12 | 1.181 | DM85KW12JN | Price |
| 12 | 1.181 | DM85KW12BJN | Price |
| 10 | 1.260 | DM85MK4NE600JN | Price |
| 12 | 1.181 | DM85BB212JN | Price |
| 12 | 1.377 | DM85HW27M12JN | Price |
| 15 | 1.690 | DM85BB218JN | Price |
| 15 | 1.690 | DM85KW15BJN | Price |
| 15 | 1.690 | DM85KW15KJN | Price |

**Metric jaw nuts also available and in stock**

## H&R Mfg. and Supply, Inc. Jaw Nuts

- **PRICED EACH SOLD INDIVIDUALLY**

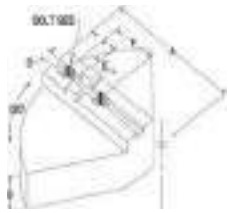



| Chuck Size (in.) | Dim. F (in.) | Order No. | Price |
|---|---|---|---|
| 6 | .787 | HF70HRJN206M | Price |
| 6 | .787 | HF70HRJN6KA | Price |
| 6 | .787 | HF70HRJN6KM | Price |
| 6 | .969 | HF70HRJN6BA | Price |
| 6 | .969 | HF70HRJN6BM | Price |
| 8 | 1.000 | HF70HRJN208A | Price |
| 8 | 1.000 | HF70HRJN208M | Price |
| 8 | 1.000 | HF70HRJN149A | Price |
| 8 | 1.000 | HF70HRJN149M | Price |
| 10 | .984 | HF70HRJN81M | Price |
| 10 | 1.181 | HF70HRJN210A | Price |
| 10 | 1.181 | HF70HRJN210M | Price |
| 10 | 1.181 | HF70HRJN82A | Price |
| 10 | 1.181 | HF70HRJN82M | Price |
| 10 | 1.578 | HF70HRJN95M | Price |
| 12 | 1.181 | HF70HRJN112A | Price |
| 12 | 1.181 | HF70HRJN112M | Price |
| 12 | 1.181 | HF70HRJN108A | Price |
| 12 | 1.181 | HF70HRJN108M | Price |
| 15 | 1.690 | HF70HRJN115M | Price |
| 15 | 1.690 | HF70HRJN115A | Price |
| 15 | 1.690 | HF70HRJN155M | Price |
| 15 | 1.690 | HF70HRJN155A | Price |

## H&R Mfg. and Supply, Inc. Full Wrap Jaws

MADE IN THE USA

### A.S.T.G. Medium Duty Full Wrap Alum Jaws Tongue & Groove (1/8" Tongue Height)



- For: Berman, Bison, Buck, Cushmen, Huron, Rohm,Forkhardt, Pratt Burnerd America, SCA, S.P., W&S, Nobel & Yuasa
- Full wrap jaws are used for round and thin wall parts where pressure is applied around the entire part I.D. & O.D.
- NOT made out of castings, therefore there are NO sand pockets, resulting in a better quality product
- Cast iron and steel available—Call for more information

**PRICED EACH SOLD ONLY IN MATCHED SETS OF 3**

| Chuck Size (in.) | A (in.) | B (in.) | D (in.) | J (in.) | F (in.) | E (in.) | Bolt (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 6 | 3 | 2.00 | .313 | Center | 1.500 | .500 | 3/8 | HF70HR6MSH2AL | Price |
| 8 | 4 | 2.00 | .313 | Center | 1.750 | .500 | 3/8 | HF70HR8MSH2AL | Price |
| 10 | 5 | 2.00 | .500 | 1-1/2 | 2.125 | .750 | 1/2 | HF70HR10MSH2AL | Price |
| 12 | 6 | 2.00 | .500 | 2 | 2.500 | .750 | 1/2 | HF70HR12MSH2AL | Price |

## H&R Mfg. and Supply, Inc. Serrated Soft Top Jaws Each 1/16" @ 90°

MADE IN THE USA

- For Cushman, Gamet, Erickson, Powerhold, Rohm, Forkhardt, Autoblok and SMW

**PRICED EACH SOLD ONLY IN MATCHED SETS OF 3**



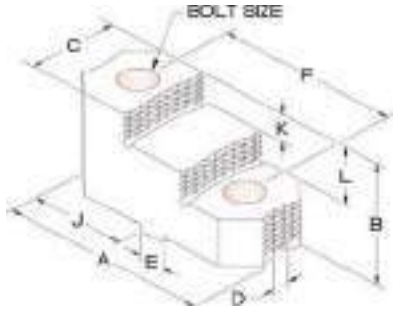
| No. of Holes - 2 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Chuck Size (in.) | A (in.) | B (in.) | C (in.) | D (in.) | F (in.) | Bolt Size (in.) | J (in.) | Order No. | Price |
| 11-12 | 4-3/4 | 3.00 | 11-12 | .827 | 1.125 | - | 1.187 | HF70HRWB12 | Price |
| 5-6 | 3-1/8 | 1-1/2 | 1-1/4 | .433 | .718 | 5/16 | .437 | HF70HR6JSH | Price |
| 5-6 | 3-1/8 | 3.00 | 1-1/4 | .433 | .718 | 5/16 | .437 | HF70HR6JEH | Price |

| No. of Holes - 3 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Chuck Size (in.) | A (in.) | B (in.) | C (in.) | D (in.) | F (in.) | Bolt Size (in.) | J (in.) | Order No. | Price |
| 8-10 | 4-1/4 | 2.00 | 1-1/2 | .551 | .875 | 3/8 | .562 | HF70HR10JSH | Price |
| 8-10 | 4-1/4 | 2.00 | 1-1/2 | .669 | .875 | 1/2 | .500 | HF701282P | Price |
| 8-10 | 4-1/4 | 3-1/2 | 1-1/2 | .551 | .875 | 3/8 | .562 | HF70HR10JEH | Price |
| 8-10 | 4-1/4 | 3-1/2 | 1-1/2 | .669 | .875 | 1/2 | .500 | HF7012835P | Price |
| 8-10 | 4-5/8 | 3-1/2 | 1-3/4 | .788 | 1.187 | 1/2 | .625 | HF70HR11JEH | Price |
| 8-10 | 4-5/8 | 2.00 | 1-3/4 | .788 | 1.187 | 1/2 | .625 | HF70HR11JSH | Price |
| 10-12.5 | 5-1/4 | 2-1/2 | 2 | .827 | 1.187 | 1/2 | .625 | HF701212525P | Price |
| 10-12.5 | 5-1/4 | 3-1/2 | 2 | .827 | 1.187 | 1/2 | .625 | HF701212535P | Price |
| 10-12.5 | 5-1/4 | 5.00 | 2 | .827 | 1.187 | 1/2 | .625 | HF70121255P | Price |
| 11-12 | 5-1/4 | 2-1/2 | 1-3/4 | .788 | 1.187 | 1/2 | .625 | HF70HR12JSH | Price |
| 11-12 | 5-1/4 | 3-1/2 | 1-3/4 | .788 | 1.187 | 1/2 | .625 | HF70HR12JEH | Price |
| 14-15 | 6-5/8 | 2-1/2 | 1-3/4 | .826 | 1.562 | 5/8 | .750 | HF70HR15JSH | Price |
| 14-15 | 6-5/8 | 3-1/2 | 1-3/4 | .826 | 1.562 | 5/8 | .750 | HF70HR15JEH | Price |

## H&R Mfg. and Supply, Inc. Medium & Heavy Duty Hard Top Jaws
## American Standard Tongue & Groove (A.S.T.G.)

- For Bergman, Bison, Buck, Cushman, Huron , Rohm, Forkhardt, Pratt Burnerd America, SCA, SP, W & S, Nobel & Yuasa
- † All "STGRT" Style Jaws have Horizontal Serrations only

**PRICED EACH SOLD ONLY IN MATCHED SETS OF 3**



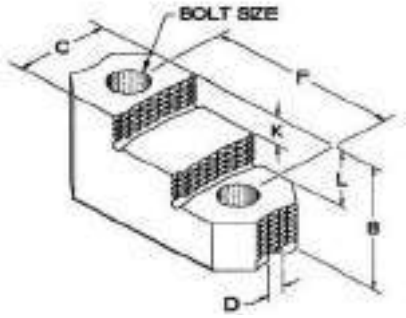

| Style - Heavy Duty 2-Step Rev Hard Jaw | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chuck Size (in.) | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | J (in.) | K (in.) | L (in.) | Bolt (in.) | Order No. | Price |
| 8 | 3.286 | 1.969 | 1-1/2 | .313 | .500 | 1.750 | 1.375 | .530 | .910 | 1/2 | **HF708HTGRJ** | Price |
| 10 | 3.920 | 2.469 | 1-3/4 | .500 | .750 | 2.125 | 1.563 | .650 | 1.300 | 5/8 | **HF7010HTGRJ** | Price |
| 12 | 4.550 | 2.469 | 1-3/4 | .500 | .750 | 2.500 | 1.875 | .650 | 1.300 | 5/8 | **HF7012HTGRJ** | Price |
| 15-24 | 5.350 | 3.469 | 2-1/2 | .500 | .750 | 3.000 | 2-1/4 | .950 | 1.900 | 3/4 | **HF7015HTGRJ** | Price |
| 24 - 36 | 6.942 | 3.969 | 3 | .500 | .750 | 3.000 | 3-3/4 | 1.000 | 2.000 | 3/4 | **HF7024HTGRJ** | Price |
| 24 - 36 | 6.942 | 3.969 | 3 | .500 | .750 | 3.000 | 3-3/4 | 1.000 | 2.000 | 7/8 | **HF7028HTGRJ** | Price |

| Style - Medium Duty 2-Step Rev Hard Jaw | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chuck Size (in.) | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | J (in.) | K (in.) | L (in.) | Bolt (in.) | Order No. | Price |
| 6 | 2.788 | 1.969 | 1-1/2 | .313 | .500 | 1.500 | 1.125 | .530 | 1.060 | 3/8 | **HF706MTGRJ** | Price |
| 8 | 3.270 | 1.625 | 1.000 | .313 | .500 | 1.750 | 1.375 | .375 | .750 | 3/8 | **HF708STGRJ†** | Price |
| 8 | 3.286 | 1.969 | 1-1/2 | .313 | .500 | 1.750 | 1.375 | .530 | 1.060 | 3/8 | **HF708MTGRJ** | Price |
| 10 | 3.750 | 2.000 | 1.250 | .500 | .750 | 2.125 | 1.563 | .500 | 1.000 | 1/2 | **HF7010STGRJ†** | Price |
| 10 | 3.920 | 2.469 | 1-3/4 | .500 | .750 | 2.125 | 1.563 | .650 | 1.300 | 1/2 | **HF7010MTGRJ** | Price |
| 12 | 4.550 | 2.250 | 1.250 | .500 | .750 | 2.500 | 1.875 | .625 | 1.250 | 1/2 | **HF7012STGRJ†** | Price |
| 12 | 4.550 | 2.469 | 1-3/4 | .500 | .750 | 2.500 | 1.875 | .650 | 1.300 | 1/2 | **HF7012MTGRJ** | Price |
| 15 & Up | 5.260 | 2.750 | 1.500 | .500 | .750 | 3.000 | 2-1/4 | .735 | 1.469 | 5/8 | **HF7015STGRJ†** | Price |
| 15 & Up | 5.350 | 3.469 | 2-1/2 | .500 | .750 | 3.000 | 2-1/4 | .950 | 1.900 | 5/8 | **HF7015MTGRJ** | Price |

## H&R Mfg. and Supply, Inc. Serrated Hard Top Jaws 1/16" @ 90°

- For Cushman, Gamet, Erickson, Power Hold, Rohm, Autoblok, Forkhardt, SMW and Pratt Burnerd

**PRICED EACH SOLD ONLY IN MATCHED SETS OF 3**




| Description - Hard Jaws | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Chuck Size (in.) | A (in.) | B (in.) | C (in.) | D (in.) | F (in.) | K (in.) | L (in.) | Bolt (in.) | Order No. | Price |
| 6-1/2 | 3 | 2.00 | 1-1/4 | .551 | .865 | 3/8 | 3/4 | 3/8 | **HF70HR1165RJ** | Price |
| 8 | 3-1/2 | 1-31/32 | 1-1/2 | .669 | .945 | .530 | 1.060 | 1/2 | **HF70HR118RJ** | Price |
| 10-12 | 4-7/8 | 2-15/32 | 1-3/4 | .827 | 1.181 | .650 | 1.300 | 1/2 | **HF70HR11125RJ** | Price |

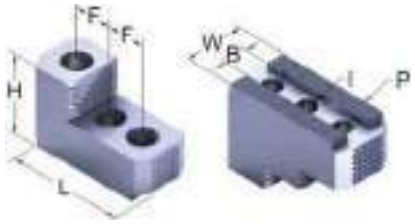
| Description - Others | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Chuck Size (in.) | A (in.) | B (in.) | C (in.) | D (in.) | F (in.) | K (in.) | L (in.) | Bolt (in.) | Order No. | Price |
| 5-6 | 3 | 2.00 | 1-1/4 | .433 | .719 | 1/2 | 1.000 | 5/16 | **HF70HR6JSHRJ** | Price |
| 8-10 | 3-1/2 | 2.00 | 1-1/2 | .551 | .875 | 1/2 | 1.000 | 3/8 | **HF70HR10JSHRJ** | Price |
| 11-12 | 4-1/4 | 2-15/32 | 1-3/4 | .788 | 1.181 | .650 | 1.300 | 1/2 | **HF70HR12JSHRJ** | Price |
| 14-15 | 4-7/8 | 2-15/32 | 1-3/4 | .827 | 1.562 | .650 | 1.300 | 5/8 | **HF70HR15JSHRJ** | Price |
| 18 | 6-1/2 | 3-15/32 | 2-1/2 | 1.181 | 1.970 | .950 | 1.900 | 3/4 | **HF70HR18HDRJ** | Price |

| Description - Pratt Burnerd | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Chuck Size (in.) | A (in.) | B (in.) | C (in.) | D (in.) | F (in.) | K (in.) | L (in.) | Bolt (in.) | Order No. | Price |
| 6-1/2 | 3 | 2.00 | 1-1/4 | .510 | .719 | 3/8 | 3/4 | 5/16 | **HF70HR1665RJ** | Price |
| 8 | 3-9/16 | 2.00 | 1-1/2 | .669 | .875 | 3/8 | 3/4 | 3/8 | **HF70HR168RJ** | Price |
| 10 | 4-1/4 | 2-1/2 | 1-1/2 | .827 | .980 | 1/2 | 1.000 | 1/2 | **HF70HR1610RJ** | Price |

## Dillon Manufacturing, Inc. Metric Serrated Single Step Reversible Hard Jaws

### 1.5mm (.0591) @ 60° Serration

- For Chucks Made by Kitagawa, Matsumoto, Howa & Seike, PBA, Autoblok, Schunk, Strong
- All Jaws are made from 1018 mild steel
- **PRICED EACH SOLD ONLY IN MATCHED SETS OF 3**

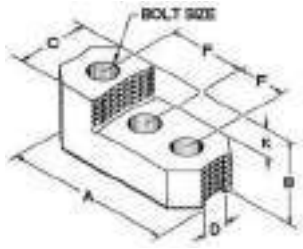



| Chuck Size (in.) | A (in.) | B (in.) | C (in.) | F (in.) | L (in.) | Bolt | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 6 | 1.50 | .472 | 1.25 | .787 | 2.750 | M10 | **DM85KW61RJ** | Price |
| 6 | 1.625 | .433 | 1.125 | .984 | 3.00 | M8 | **DM85MK3NE651RJ** | Price |
| 8 | 2.00 | .551 | 1.50 | .984 | 3.625 | M12 | **DM85KW81RJ** | Price |
| 8 | 2.00 | .630 | 1.50 | .984 | 3.25 | M12 | **DM85HW27M81RJ** | Price |
| 10 | 2.50 | .630 | 1.75 | 1.181 | 4.25 | M12 | **DM85KW101RJ** | Price |
| 10 | 3.00 | .630 | 1.50 | 1.260 | 4.213 | 1/2 | **DM85MK4NE6001RJ** | Price |
| 12 | 2.50 | .827 | 2.00 | 1.377 | 4.375 | M16 | **DM85HW27M121RJ** | Price |
| 12 | 2.50 | .709 | 2.00 | 1.181 | 4.25 | M14 | **DM85KW121RJ** | Price |
| 12 | 2.50 | .827 | 2.00 | 1.181 | 4.25 | M16 | **DM85KW12B1RJ** | Price |
| 15 | 3.50 | 1.004 | 2.50 | 1.690 | 5.875 | M20 | **DM85KW15B1RJ** | Price |
| 15 | 3.50 | .866 | 2.50 | 1.690 | 5.875 | M20 | **DM85KW15K1RJ** | Price |

## H&R Mfg. and Supply, Inc. Metric Serrated Single Step Reversible Hard Jaws

### 1.5mm (.0591) @ 60° Serration

- For Chucks Made by Kitagawa, Matsumoto, Howa & Seike, PBA, Autoblok, Schunk, Strong
- All Jaws are made from 1018 mild steel
- **PRICED EACH SOLD ONLY IN MATCHED SETS OF 3**



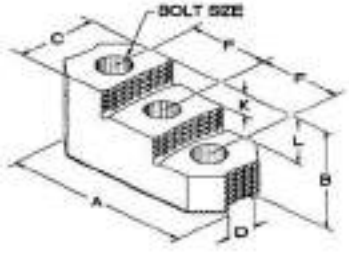

| Chuck Size | A (in.) | B (in.) | C (in.) | D (in.) | F (in.) | K (in.) | Bolt | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| 6" Matsumoto | 3 | 2.00 | 1-1/4 | .433 | .969 | 1.000 | 8mm | **HF70HR6BRJSS** | Price |
| 8" Kitagawa (208) | 3-1/2 | 2.00 | 1-1/4 | .551 | 1.000 | 1.030 | 12mm | **HF70HR149RJSS** | Price |
| B-10 Kitagawa | 4-1/4 | 2-1/2 | 1-3/4 | .630 | 1.181 | 1.250 | 12mm | **HF70HR82RJSS** | Price |
| 12" (B-12) | 4-7/8 | 2-1/2 | 2 | .710 | 1.181 | 1.300 | 14mm | **HF70HR108RJSS** | Price |
| 12" (B-212) | 4-7/8 | 2-1/2 | 2 | .827 | 1.181 | 1.300 | 16mm | **HF70HR112RJSS** | Price |
| 15" (B-15) | 5-1/2 | 3-1/2 | 2-1/2 | .866 | 1.690 | 1.900 | 20mm | **HF70HR155RJSS** | Price |
| 15" (B-215) | 5-1/2 | 3-1/2 | 2-1/2 | 1.000 | 1.690 | 1.900 | 20mm | **HF70HR115RJSS** | Price |

## H&R Mfg. and Supply, Inc. Metric Serrated Double Step Reversible Hard Jaws

### 1.5mm (.0591) @ 60° Serration

- For Chucks Mde by Kitagawa, Matsumoto, Howa & Seike, PBA, Autoblok, Schunk, Strong
- All Jaws are made from 1018 mild steel

**PRICED EACH SOLD ONLY IN MATCHED SETS OF 3**




| Chuck Size | A (in.) | B (in.) | C (in.) | D (in.) | F (in.) | K (in.) | L (in.) | Bolt | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| 6" Kitagawa | 3 | 2.00 | 1-1/4 | .472 | .787 | .500 | 1.000 | 10mm | **HF70HR6KRJ** | Price |
| 6" Matsumoto | 3 | 2.00 | 1-1/4 | .433 | .969 | .500 | 1.000 | 8mm | **HF70HR6BRJ** | Price |
| 8" Kitagawa (208) | 3-1/2 | 2.00 | 1-1/2 | .551 | 1.000 | .530 | 1.060 | 12mm | **HF70HR149RJ** | Price |
| B-10 Kitagawa | 4-1/4 | 2-1/2 | 1-3/4 | .630 | 1.181 | .650 | 1.300 | 12mm | **HF70HR82RJ** | Price |
| 12" (B-12) | 4-7/8 | 2-1/2 | 2 | .710 | 1.181 | .650 | 1.300 | 14mm | **HF70HR108RJ** | Price |
| 12" (B-212) | 4-7/8 | 2-1/2 | 2 | .827 | 1.181 | .650 | 1.300 | 16mm | **HF70HR112RJ** | Price |
| 15" (B-15) | 5-1/2 | 3-1/2 | 2-1/2 | .866 | 1.690 | .950 | 1.900 | 20mm | **HF70HR155RJ** | Price |
| 15" (B-215) | 5-1/2 | 3-1/2 | 2-1/2 | 1.000 | 1.690 | .950 | 1.900 | 20mm | **HF70HR115RJ** | Price |

## H&R Mfg. and Supply, Inc. A.S.T.G. Single Step Heavy Duty Reversible Hard Jaw

- For Bergman, Bison, Buck, Cushman, Huron, Rohm, Forkhardt, Pratt Burnerd America, SCA, SP, W & S, Nobel & Yuasa

**PRICED EACH SOLD ONLY IN MATCHED SETS OF 3**



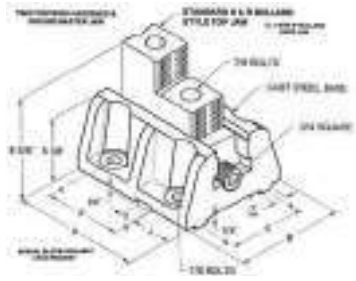
| Chuck Size (in.) | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | J (in.) | L (in.) | Bolt (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 4.550 | 2.469 | 2 | .500 | .750 | 2.500 | 1.875 | 1.262 | 5/8 | **HF7012HTGRJSS** | Price |
| 15-24 | 5.350 | 3.469 | 2-1/2 | .500 | .750 | 3.000 | 2-1/4 | 1.900 | 3/4 | **HF7015HTGRJSS** | Price |
| 24 - 36 | 6.960 | 3.750 | 3 | .500 | .750 | 3.000 | 3-3/4 | 2.000 | 3/4 | **HF7024HTGRJSS** | Price |
| 24 - 36 | 6.960 | 3.750 | 3 | .500 | .750 | 3.000 | 3-3/4 | 2.000 | 7/8 | **HF7028HTGRJSS** | Price |

## H&R Mfg. and Supply, Inc. 4 Pc. Boring Mill Jaws Set

### Replaceable Standard Top Jaws (Soft Jaws Available) - Bullard Tooling

- Hardened thrust bearing & operating screw for extended wear
- **SOLD ONLY IN MATCHED SETS OF 4**

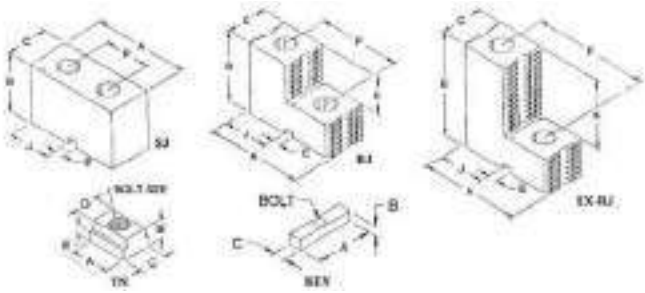
MADE IN THE USA



| Size A (in.) | B (in.) | C (in.) | F (in.) | J (in.) | Top Jaw Positions | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 8 | 8-5/8 | 6 | 4.000 | 3-1/2 | 1 | **HF70HRBM86TJ** | Price |
| 8 | 8-5/8 | 7 | 4.000 | 3-1/2 | 1 | **HF70HRBM87TJ** | Price |
| 10 | 8-5/8 | 6 | 6.000 | 3 | 2 | **HF70HRBM106TJ** | Price |
| 10 | 8-5/8 | 7 | 6.000 | 3 | 2 | **HF70HRBM107TJ** | Price |
| 12 | 10 | 6 | 7.000 | 3-1/2 | 2 | **HF70HRBM126TJ** | Price |
| 12 | 10 | 7 | 7.000 | 3-1/2 | 2 | **HF70HRBM127TJ** | Price |
| 14 | 12 | 6 | 9.000 | 3-1/2 | 3 | **HF70HRBM146TJ** | Price |
| 14 | 12 | 7 | 9.000 | 3-1/2 | 3 | **HF70HRBM147TJ** | Price |

## H&R Mfg. and Supply, Inc. Bullard Jaws

MADE IN THE USA



| A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | J (in.) | K (in.) | Bolt (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-3/4 | 1 | 1-1/2 | .975 | .520 | - | - | - | 7/8-9 | **HF70HRBULTN†** | Price |
| 2-5/8 | 1/2 | 5/8 | - | - | - | - | - | 5/16 | **HF70HRBULKEY††** | Price |
| 6-5/8 | 4.00 | 3 | - | 5/8 | 3.250 | 3 | 2 | 7/8 | **HF70HRBULRJ** | Price |
| 6-5/8 | 4.00 | 3 | - | 5/8 | 3.250 | Center | - | 7/8 | **HF70HRBULSJ** | Price |
| 6-5/8 | 6.00 | 3 | - | 5/8 | 3.250 | 3 | 4 | 7/8 | **HF70HRBULEHRJ** | Price |

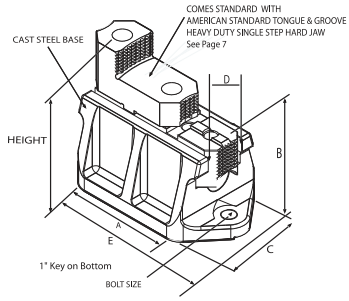
**†TNut ††Key**

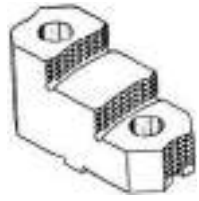
## H&R Mfg. and Supply, Inc. Steel Face Plate Jaws

### Steel Face Plate Includes Single Step Jaw

- Face plate jaws are special order only
- **SOLD ONLY IN MATCHED SETS OF 4**

MADE IN THE USA



| Size A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | Bolt Size (in.) | Bolt Centers (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 6 | 4.500 | 5.500 | 2.000 | 8.500 | 5/8 | 7.00 | **HF70FPJ6** | Price |
| 8 | 4.500 | 5.500 | 2.250 | 10.500 | 3/4 | 9.00 | **HF70FPJ8** | Price |

## Fine Adjustment Steel Body Chucks

**Bison Features:**
- .0004” Accuracy
- Scroll & Jaws hardened and ground
- Three hardened and ground pinions
- 4 Micro adjustment screws provide .0004 T.I.R. repeatability
- 15-3/4” & UP chucks have 8 micro adjustment screws
- Extremely high gripping concentricity
- 2 Pc. top jaws are American Standard Tongue & Groove.
- 4” HAS 2 SETS SOLID JAWS

**Toolmex Features:**
- .0006” T.I.R. Repeatability
- Fine adjustment with 4 micro adjustment screws
- 16”, 20” and 25” diameter chucks with 3 jaws and 6 jaws use 8 micro adjustment screws



TOOLMEX Industrial Solutions

| Number of Jaws - 3 | | | | | | |
|---|---|---|---|---|---|---|
| | | | TMX | | Bison | |
| Chuck Size (in.) | Hole Size (in.) | Max. RPM | Order No. | Price | Order No. | Price |
| 4 | .787 | 6300 | - | - | **HK308660400** | Price |
| 5 | 1.378 | 5500 | **HK3138660500P** | Price | **HK308660500** | Price |
| 6 | 1.654 | 4600 | **HK3138660600P** | Price | **HK308660600** | Price |
| 8 | 2.165 | 4000 | **HK3138660800P** | Price | **HK308660800** | Price |
| 10 | 2.992 | 3500 | **HK3138661000P** | Price | **HK308661000** | Price |
| 12 | 4.055 | 2800 | **HK3138661200P** | Price | **HK308661200** | Price |
| 16 | 5.354 | 2000 | **HK3138661600P** | Price | **HK308661600** | Price |
| 20 | 7.480 | 1300 | - | - | **HK308662000** | Price |
| 25 | 9.921 | 1000 | **HK3138662500P** | Price | **HK308662500** | Price |
| 20 | 7.48 | 1300 | **HK3138662000P** | Price | - | - |

TOOLMEX Industrial Solutions

| Number of Jaws - 4 | | | | |
|---|---|---|---|---|
| | | | TMX | |
| Chuck Size (in.) | Hole Size (in.) | Max. RPM | Order No. | Price |
| 6 | 1.654 | 4600 | **HK3138470600P** | Price |
| 8 | 2.165 | 4000 | **HK3138470800P** | Price |

TOOLMEX Industrial Solutions

| Number of Jaws - 4 | | | |
|---|---|---|---|
| | TMX | | |
| Chuck Size (in.) | Hole Size (in.) | Max. RPM | Order No. | Price |
| 10 | 2.992 | 3500 | **HK3138471000P** | Price |
| 12 | 4.055 | 2800 | **HK3138471200P** | Price |
| 16 | 5.354 | 2000 | **HK3138471600P** | Price |

TOOLMEX Industrial Solutions

| Number of Jaws - 6 | | | | | | |
|---|---|---|---|---|---|---|
| | | | TMX | | Bison | |
| Chuck Size (in.) | Hole Size (in.) | Max. RPM | Order No. | Price | Order No. | Price |
| 4 | .787 | 4000 | - | - | **HK308688040** | Price |
| 5 | 1.378 | 3800 | **HK3138680500P** | Price | **HK308680500** | Price |
| 6 | 1.654 | 3200 | **HK3138680600P** | Price | **HK308680600** | Price |
| 8 | 2.165 | 2800 | **HK3138680800P** | Price | **HK308680800** | Price |
| 10 | 2.992 | 2400 | **HK3138681000P** | Price | **HK308681000** | Price |
| 12 | 4.055 | 1900 | **HK3138681200P** | Price | **HK308681200** | Price |
| 16 | 5.354 | 1400 | **HK3138681600P** | Price | **HK308681600** | Price |
| 20 | 7.480 | 900 | - | - | **HK308682000** | Price |
| 25 | 9.921 | 700 | **HK3138682500P** | Price | **HK308682500** | Price |
| 20 | 7.48 | 900 | **HK3138682000P** | Price | - | - |

## Fine Adjustment Steel & Semi Steel Body Chucks

**Features:**
- .0005” Accuracy (BTC)
- Scroll & Jaws hardened and ground
- Three hardened and ground pinions
- 4 Micro adjustment screws provide .0004 T.I.R. repeatability
- 15-3/4” & UP chucks have 8 micro adjustment screws
- Extremely high gripping concentricity
- 2 Pc. top jaws are American Standard Tongue & Groove



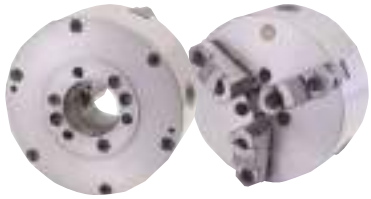
| No. of Jaws - 3 | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | Semi Steel Body | | Steel Body | |
| Chuck Size (in.) | Hole Size (in.) | Max. RPM | Weight | Order No. | Price | Order No. | Price |
| 4 | 1.024 | 4000 | 10 lbs | **HK151043** | Price | **HK15S1043** | Price |
| 5 | 1.299 | 3500 | 15 lbs | **HK151053R** | Price | **HK15S1053R** | Price |
| 6 | 1.535 | 3400 | 19 lbs | **HK151063R** | Price | **HK15S1063R** | Price |
| 8 | 2.264 | 3100 | 50 lbs | **HK151083R** | Price | **HK15S1083R** | Price |
| 10 | 2.835 | 2700 | 70 lbs | **HK151103R** | Price | **HK15S1103R** | Price |
| 12 | 3.268 | 2200 | 116 lbs | **HK151123R** | Price | **HK15S1123R** | Price |
| 15 | 4.252 | 1800 | 200 lbs | **HK151153R** | Price | **HK15S1153R** | Price |

| No. of Jaws - 6 | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | Semi Steel Body | | Steel Body | |
| Chuck Size (in.) | Hole Size (in.) | Max. RPM | Weight | Order No. | Price | Order No. | Price |
| 6 | 1.535 | 2500 | 19 lbs | **HK151066R** | Price | **HK15S1066R** | Price |
| 8 | 2.264 | 2200 | 50 lbs | **HK151086R** | Price | **HK15S1086R** | Price |
| 10 | 2.835 | 1900 | 70 lbs | **HK151106R** | Price | **HK15S1106R** | Price |
| 12 | 3.268 | 1500 | 116 lbs | **HK151126R** | Price | **HK15S1126R** | Price |
| 15 | 4.252 | 1300 | 200 lbs | **HK151156R** | Price | **HK15S1156R** | Price |

## 3-Jaw Type "A" Direct Mount Semi-Steel Lathe Chucks

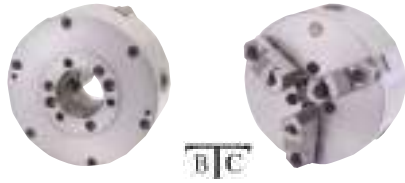
**BTC Features:**
- Master jaws and top jaws
- T-wrench
- Mounting screws
- Although an A1 type spindle nose has both inner and outer tapped holes, Style A1 chucks utilize the inner holes, and will NOT fit on an A2 type spindle.
- Style A2 chucks use the outer tapped holes, and WILL fit on either A1 or A2 type spindles

**Bison Features:**
- Steel body accuracy .0015
- Semi-Steel body accuracy .003
- 2 Pc. American jaws
- 2 Pc. Reversible jaws
- “A” Type mount shown



| | | | Bison | | BTC | |
|---|---|---|---|---|---|---|
| Chuck Size (in.) | Mount | Hole Size (in.) | Order No. | Price | Order No. | Price |
| 6 | A1-5 | 1.653 | **HK308010615** | Price | - | - |
| 8 | A1-5 | 1.575 | - | - | **HK156083A5R** | Price |

## 3-Jaw Type "A" Direct Mount Semi-Steel Lathe Chucks (cont.)



| | | | Bison | | BTC | |
|---|---|---|---|---|---|---|
| Chuck Size (in.) | Mount | Hole Size (in.) | Order No. | Price | Order No. | Price |
| 8 | A1-5 | 1.653 | **HK308010815** | Price | **-** | - |
| 8 | A1-6 | 2.165 | **HK308010816** | Price | **-** | - |
| 10 | A1-6 | 2.165 | **HK308011016** | Price | **HK156103A6R** | Price |
| 10 | A1-8 | 2.992 | **HK308011018** | Price | **-** | - |
| 10 | A2-5 | 2.992 | **HK308011015** | Price | **-** | - |
| 10 | A2-6 | 3.150 | **-** | - | **HK156103A26R** | Price |
| 12 | A1-6 | 2.165 | **-** | - | **HK156123A6R** | Price |
| 12 | A1-8 | 3.071 | **-** | - | **HK156123A8R** | Price |
| 12 | A1-8 | 3.150 | **HK308011218** | Price | **-** | - |
| 12 | A2-6 | 4.055 | **HK308011216** | Price | **-** | - |
| 15 | A2-8 | 5.315 | **-** | - | **HK156153A28R** | Price |
| 15 | A2-11 | 5.315 | **-** | - | **HK156153A211R** | Price |
| 16 | A1-11 | 5.110 | **HK308011619** | Price | **-** | - |
| 16 | A2-6 | 4.055 | **HK308011616** | Price | **-** | - |
| 16 | A2-8 | 5.340 | **HK308011618** | Price | **-** | - |
| 20 | A2-11 | 7.480 | **HK308012029** | Price | **HK156203A211R** | Price |
| 20 | A1-15 | 7.874 | **-** | - | **HK156203A15R** | Price |
| 20 | A2-8 | 5.354 | **-** | - | **HK156203A28R** | Price |
| 25 | A1-20 | 12.500 | **-** | - | **HK156253A20R** | Price |
| 25 | A2-11 | 7.500 | **HK308012511** | Price | **HK156253A211R** | Price |
| 25 | A2-15 | 9.920 | **HK308012515** | Price | **-** | - |
| 25 | A2-15 | 10.236 | **-** | - | **HK156253A215R** | Price |
| 32 | A2-20 | 12.500 | **HK308013220** | Price | **-** | - |

## 3-Jaw Type "D" Direct Mount Semi Steel Lathe Chucks

**BTC Features:**
- Master jaws and top jaws
- T-wrench
- Mounting screws

**Bison Features:**
- 2 Pc. Reversible jaws

**Toolmex Features:**
- Drop forged and hardened to 28HRc with jaws hardened to 50 HRc



| | | | BTC | | TMX | | Bison | |
|---|---|---|---|---|---|---|---|---|
| Chuck Size (in.) | Mount | Hole Size (in.) | Order No. | Price | Order No. | Price | Order No. | Price |
| 6 | D1-3 | 1.575 | **HK156063D3** | Price | **-** | - | **-** | - |
| 6 | D1-3 | 1.653 | **-** | - | **-** | - | **HK308030633** | Price |
| 6 | D1-4 | 1.575 | **HK156063D4** | Price | **-** | - | **-** | - |
| 6 | D1-4 | 1.653 | **-** | - | **-** | - | **HK308030634** | Price |
| 6 | D1-5 | 1.575 | **HK156063D5** | Price | **-** | - | **-** | - |
| 8 | D1-3 | 2.170 | **-** | - | **-** | - | **HK308030833** | Price |
| 8 | D1-4 | 1.969 | **HK156083D4** | Price | **-** | - | **-** | - |
| 8 | D1-4 | 2.170 | **-** | - | **HK3138230834P** | Price | **HK308030834** | Price |
| 8 | D1-5 | 1.969 | **HK156083D5** | Price | **-** | - | **-** | - |
| 8 | D1-5 | 2.165 | **-** | - | **-** | - | **HK308030835** | Price |
| 8 | D1-6 | 1.969 | **HK156083D6** | Price | **-** | - | **-** | - |
| 8 | D1-6 | 2.165 | **-** | - | **HK3138230836P** | Price | **HK308030836** | Price |
| 10 | D1-5 | 2.400 | **HK156103D5** | Price | **-** | - | **-** | - |
| 10 | D1-5 | 2.992 | **-** | - | **-** | - | **HK308031035** | Price |
| 10 | D1-6 | 2.756 | **HK156103D6** | Price | **-** | - | **-** | - |
| 10 | D1-6 | 2.992 | **-** | - | **HK3138231036P** | Price | **HK308031036** | Price |
| 10 | D1-8 | 2.992 | **-** | - | **HK3138231038P** | Price | **HK308031038** | Price |
| 10 | D1-8 | 3.150 | **HK156103D8** | Price | **-** | - | **-** | - |
| 12 | D1-6 | 3.937 | **HK156123D6** | Price | **-** | - | **-** | - |
| 12 | D1-6 | 4.055 | **-** | - | **HK3138231236P** | Price | **HK308031236** | Price |
| 12 | D1-8 | 3.937 | **HK156123D8** | Price | **-** | - | **-** | - |
| 12 | D1-8 | 4.173 | **-** | - | **HK3138231238P** | Price | **HK308031238** | Price |
| 12 | D1-11 | 3.937 | **HK156123D11** | Price | **-** | - | **-** | - |
| 12 | D1-11 | 4.055 | **-** | - | **HK3138231239P** | Price | **HK308031239** | Price |
| 15 | D1-8 | 5.118 | **HK156153D8** | Price | **-** | - | **-** | - |
| 15 | D1-11 | 5.315 | **HK156153D11** | Price | **-** | - | **-** | - |
| 16 | D1-6 | 5.340 | **-** | - | **-** | - | **HK308031636** | Price |
| 16 | D1-8 | 5.354 | **-** | - | **HK3138231638P** | Price | **HK308031638** | Price |
| 16 | D1-11 | 5.354 | **-** | - | **HK3138231639P** | Price | **HK308031639** | Price |
| 20 | D1-8 | 5.120 | **HK156203D8** | Price | **-** | - | **-** | - |
| 20 | D1-8 | 5.354 | **-** | - | **-** | - | **HK308032038** | Price |
| 20 | D1-11 | 7.480 | **HK156203D11** | Price | **HK3138232039P** | Price | **HK308032039** | Price |
| 20 | D1-15 | 8.268 | **HK156203D15** | Price | **-** | - | **-** | - |
| 25 | D1-8 | 5.120 | **HK156253D8** | Price | **-** | - | **-** | - |
| 25 | D1-11 | 7.480 | **HK156253D11** | Price | **-** | - | **-** | - |
| 25 | D1-11 | 7.600 | **-** | - | **HK3138232539P** | Price | **HK308032539** | Price |

## 3-Jaw Type "A" Direct Mount Steel Body Lathe Chucks



**BTC Features:**
- Master jaws and top jaws
- T-wrench
- Mounting screws
- Although an A1 type spindle nose has both inner and outer tapped holes, Style A1 chucks utilize the inner holes, and will NOT fit on an A2 type spindle
- Style A2 chucks use the outer tapped holes, and WILL fit on either A1 or A2 type spindles

**Bison Features:**
- Steel body accuracy .0015
- Semi-Steel body accuracy .003
- 2 Pc. American jaws
- 2 Pc. Reversible jaws
- "A" Type mount shown

| | | | BTC | | Bison | |
|---|---|---|---|---|---|---|
| Chuck Size (in.) | Mount | Hole Size (in.) | Order No. | Price | Order No. | Price |
| 6 | A1-5 | 1.653 | - | - | **HK308210615** | Price |
| 8 | A1-5 | 1.653 | - | - | **HK308210815** | Price |
| 8 | A1-6 | 2.170 | - | - | **HK308210816** | Price |
| 8 | A2-5 | 2.559 | **HK15S6083A25R** | Price | - | - |
| 8 | A2-6 | 2.559 | **HK15S6083A26R** | Price | - | - |
| 10 | A1-6 | 2.165 | **HK15S6103A16R** | Price | **HK308211016** | Price |
| 10 | A1-8 | 2.992 | - | - | **HK308211018** | Price |
| 12 | A1-6 | 2.165 | **HK15S6123A16R** | Price | - | - |
| 12 | A1-8 | 3.071 | **HK15S6123A18R** | Price | - | - |
| 12 | A1-8 | 3.150 | - | - | **HK308211228** | Price |
| 12 | A2-6 | 4.055 | - | - | **HK308211226** | Price |
| 15 | A2-8 | 5.315 | **HK15S6153A28R** | Price | - | - |
| 15 | A2-11 | 5.315 | **HK15S6153A211R** | Price | - | - |
| 16 | A1-11 | 5.110 | - | - | **HK308211629** | Price |
| 16 | A2-8 | 5.340 | - | - | **HK308211628** | Price |
| 20 | A1-15 | 5.354 | **HK15S6203A15R** | Price | - | - |
| 20 | A2-8 | 5.340 | **HK15S6203A28R** | Price | **HK308212028** | Price |
| 20 | A2-11 | 7.480 | **HK15S6203A211R** | Price | **HK308212029** | Price |
| 25 | A1-20 | 12.500 | **HK15S6253A120R** | Price | - | - |
| 25 | A2-11 | 7.480 | **HK15S6253A211R** | Price | **HK308212529** | Price |
| 25 | A2-15 | 9.921 | - | - | **HK308212530** | Price |
| 25 | A2-15 | 10.236 | **HK15S6253A215R** | Price | - | - |

## 3-Jaw Type "D" Direct Mount Steel Lathe Chucks



**BTC Features:**
- Master jaws and top jaws
- T-wrench
- Mounting screws

**Bison Features:**
- 2 Pc. Reversible jaws

| | | | BTC | | Bison | |
|---|---|---|---|---|---|---|
| Chuck Size (in.) | Mount | Hole Size (in.) | Order No. | Price | Order No. | Price |
| 6 | D1-3 | 1.653 | - | - | **HK308230633** | Price |
| 6 | D1-4 | 1.575 | **HK15S6063D4** | Price | - | - |
| 6 | D1-4 | 1.653 | - | - | **HK308230634** | Price |
| 8 | D1-4 | 1.969 | **HK15S6083D4** | Price | - | - |
| 8 | D1-5 | 2.170 | - | - | **HK308230835** | Price |
| 8 | D1-6 | 1.969 | **HK15S6083D6** | Price | - | - |
| 8 | D1-6 | 2.170 | - | - | **HK308230836** | Price |
| 10 | D1-6 | 2.756 | **HK15S6103D6** | Price | - | - |
| 10 | D1-6 | 2.992 | - | - | **HK308231036** | Price |
| 10 | D1-8 | 2.992 | - | - | **HK308231038** | Price |
| 10 | D1-8 | 3.150 | **HK15S6103D8** | Price | - | - |
| 12 | D1-6 | 3.937 | **HK15S6123D6** | Price | - | - |
| 12 | D1-6 | 4.055 | - | - | **HK308231236** | Price |
| 12 | D1-8 | 3.937 | **HK15S6123D8** | Price | - | - |
| 12 | D1-8 | 4.055 | - | - | **HK308231238** | Price |
| 12 | D1-11 | 4.055 | - | - | **HK308231239** | Price |
| 15 | D1-8 | 5.118 | **HK15S6153D8** | Price | - | - |
| 15 | D1-11 | 5.315 | **HK15S6153D11** | Price | - | - |
| 16 | D1-8 | 5.340 | - | - | **HK308231638** | Price |
| 16 | D1-11 | 5.340 | - | - | **HK308231639** | Price |
| 20 | D1-8 | 5.350 | **HK15S6203D8** | Price | - | - |
| 20 | D1-8 | 5.354 | - | - | **HK308232038** | Price |
| 20 | D1-11 | 7.480 | **HK15S6203D11** | Price | **HK308232039** | Price |
| 25 | D1-8 | 5.354 | - | - | **HK308232538** | Price |
| 25 | D1-11 | 7.480 | **HK15S6253D11** | Price | - | - |
| 25 | D1-11 | 7.600 | - | - | **HK308232539** | Price |

## ROHM 3-Jaw D1 Direct Mount Lathe Scroll Chucks ZSU



- Self-centering
- Jaws can be moved across the entire clamping range
- Workpieces with different diameters can be clamped without changing or shifting the jaws
- Vibration isolatin body made of steel
- Scroll drop-forged, balanced, hardened
- With base jaws and reversible hard top jaws

| Chuck Dia. (in.) | Mount | Hole Size (in.) | Max. RPM | Weight | Order No. | Price |
|---|---|---|---|---|---|---|
| 6 | D1-4 | 1.654 | 3600 | 18.9125 lbs | **HK80105882** | Price |
| 8 | D1-6 | 2.165 | 3000 | 34.4875 lbs | **HK80106346** | Price |
| 10 | D1-6 | 2.992 | 2500 | 66.75 lbs | **HK80106386** | Price |
| 10 | D1-8 | 2.992 | 2500 | 66.75 lbs | **HK80106402** | Price |
| 12-1/2 | D1-6 | 4.055 | 2000 | 112.25 lbs | **HK80106442** | Price |
| 12-1/2 | D1-8 | 4.055 | 2000 | 112.25 lbs | **HK80106458** | Price |

## BTC 3 Jaw Self Centering Scroll Chucks- Flatback Top Reversible Jaws



- American standard two-piece tongue and groove Jaws
- Scroll and jaws hardened and ground
- Top reversible jaws
- Semi-steel & steel body styles

**Supplied With:**
- Master jaws and top jaws
- T-wrench
- Mounting screws

| Description - Semi Steel Body | | | | |
|---|---|---|---|---|
| Chuck Size | Hole Size (in.) | Weight | Order No. | Price |
| 5 | 1.181 | 14 lbs | **HK153053R** | Price |
| 6 | 1.575 | 21 lbs | **HK153063R** | Price |
| 8 | 2.559 | 39 lbs | **HK153083R** | Price |
| 10 | 3.150 | 56 lbs | **HK153103R** | Price |
| 12 | 3.937 | 99 lbs | **HK153123R** | Price |
| 15 | 5.315 | 122 lbs | **HK153153R** | Price |
| 20 | 8.268 | 320 lbs | **HK153203R** | Price |
| 25 | 10.630 | 510 lbs | **HK153253R** | Price |
| 32 | 15.157 | 556 lbs | **HK153323R** | Price |

| Description - Steel Body | | | | |
|---|---|---|---|---|
| Chuck Size | Hole Size (in.) | Weight | Order No. | Price |
| 5 | 1.181 | 14 lbs | **HK15S3053R** | Price |
| 6 | 1.575 | 21 lbs | **HK15S3063R** | Price |
| 8 | 2.559 | 39 lbs | **HK15S3083R** | Price |
| 10 | 3.150 | 56 lbs | **HK15S3103R** | Price |
| 12 | 3.937 | 99 lbs | **HK15S3123R** | Price |
| 15 | 5.315 | 122 lbs | **HK15S3153R** | Price |
| 20 | 8.268 | 320 lbs | **HK15S3203R** | Price |
| 25 | 10.630 | 510 lbs | **HK15S3253R** | Price |
| 32 | 15.157 | 556 lbs | **HK15S3323R** | Price |

## BTC 3 Jaw Self Centering Scroll Chucks- Flatback Solid Hard Jaws



- Scroll and jaws hardened and ground
- Semi-steel body

**Supplied With:**
- 2 Sets of solid hard jaws (1 internal and 1 external)
- T-wrench
- Mounting screws

| Chuck Size | Hole Size (in.) | Weight | Order No. | Price |
|---|---|---|---|---|
| 3 | .630 | 5 lbs | **HK155033** | Price |
| 4 | .866 | 8 lbs | **HK155043** | Price |
| 5 | 1.181 | 14 lbs | **HK155053** | Price |
| 6 | 1.575 | 21 lbs | **HK155063** | Price |
| 8 | 2.559 | 36 lbs | **HK155083** | Price |
| 10 | 3.150 | 56 lbs | **HK155103** | Price |
| 12 | 3.937 | 109 lbs | **HK155123** | Price |
| 15 | 5.315 | 145 lbs | **HK155153** | Price |

## 3-Jaw Semi Steel Hardened & Solid Jaw Plain Back Chucks



**Features:**
- 1 Set of hard solid ID jaws
- 1 Set of hard solid OD jaws
- 1 Chuck wrench
- 1 Set of mounting bolts
- 2 Hex keys
- Eye bolts for chuck sizes 16” and larger
- Scroll and jaws hardened and precision ground
- Accuracy varies with size: 0.0006-0.003

| Chuck Size (in.) | Hole Size (in.) | Weight | Order No. | Price |
|---|---|---|---|---|
| 3 | .630 | 3.1 lbs | **HK308100300** | Price |
| 4 | .790 | 6 lbs | **HK308100400** | Price |
| 5 | 1.260 | 11 lbs | **HK308100500** | Price |
| 6 | 1.653 | 22 lbs | **HK308100600** | Price |
| 8 | 2.170 | 39 lbs | **HK308100800** | Price |

| Chuck Size (in.) | Hole Size (in.) | Weight | Order No. | Price |
|---|---|---|---|---|
| 10 | 2.992 | 64 lbs | **HK308101000** | Price |
| 12 | 4.055 | 111 lbs | **HK308101200** | Price |
| 16 | 5.340 | 188 lbs | **HK308101600** | Price |
| 20 | 7.480 | 320 lbs | **HK308102000** | Price |
| 25 | 9.921 | 551 lbs | **HK308102500** | Price |

## SAMCHULLY 3-Jaw Manual Chucks



- Front Mounting Scroll Design
- 2 Pc. Jaw Design
- External Clamping 4mm - 180mm
- Internal Clamping 56mm - 170mm
- 35000 Max RPM
- Handle Torque 107.9 Nm (11kgf)

| Chuck Dia. (in.) | Thru Hole Dia. (in.) | Grip Range Min. (in.) | Grip Range Max. (in.) | Max. Gripping Force (lbs) | Max. RPM | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 7.559 | 2.244 | 0.157 | 7.087 | 6969 | 3500 | **SC60FTC190CF** | Price |
| 9.134 | 2.953 | 0.197 | 8.661 | 8318 | 2900 | **SC60FTC230CF** | Price |
| 10.748 | 3.504 | 0.197 | 10.236 | 10341 | 2500 | **SC60FTC273CF** | Price |
| 12.205 | 3.937 | 0.394 | 11.811 | 12364 | 2200 | **SC60FTC310** | Price |
| 18.11 | 7.48 | 1.575 | 16.142 | 14612 | 1200 | **SC60FTC460** | Price |
| 24.016 | 10.827 | 5.118 | 22.677 | 17984 | 850 | **SC60FTC610** | Price |
| 31.89 | 14.764 | 10.63 | 31.89 | 24728 | 650 | **SC60FTC810** | Price |
| 39.37 | 22.835 | 13.386 | 38.976 | 24728 | 470 | **SC60FTC1000** | Price |

## 3-Jaw Semi Steel Plain Back Chucks



**Features:**
- 1 Set of hard master jaws
- 1 Set of hard top reversible jaws
- 1 Chuck wrench
- 1 Set of mounting bolts
- 2 Hex keys
- Eye bolts for chuck sizes 16” diameter and larger
- Scroll and jaws hardened and precision ground
- Accuracy varies with size: 0.0006-0.003

| Chuck Size (in.) | Hole Size (in.) | Order No. | Price |
|---|---|---|---|
| 5 | 1.260 | **HK308000500** | Price |
| 6 | 1.653 | **HK308000600** | Price |
| 8 | 2.170 | **HK308000800** | Price |
| 10 | 2.992 | **HK308001000** | Price |
| 12 | 4.060 | **HK308001200** | Price |
| 16 | 5.354 | **HK308001600** | Price |

| Chuck Size (in.) | Hole Size (in.) | Order No. | Price |
|---|---|---|---|
| 20 | 7.480 | **HK308002000** | Price |
| 25 | 9.920 | **HK308002500** | Price |
| 32 | 10.500 | **HK308003200** | Price |

## 3-Jaw Steel Plain Back Chucks



**Bison Features:**
- 1 Set of hard master jaws
- 1 Set of hard top reversible jaws
- 1 Chuck wrench
- 1 Set of mounting bolts
- 2 Hex keys
- Eye bolts for chuck sizes 16” diameter and larger
- Scroll and jaws hardened and precision ground
- Accuracy varies with size: 0.0006-0.0024

**Toolmex Features:**
- Statically balanced to ultra-high tolerance levels
- Chuck bodies are drop forged and hardened to 28 HRc with jaws hardenend to 50 HRc

TOOLMEX Industrial Solutions

| Chuck Size (in.) | Hole Size (in.) | TMX Order No. | TMX Price | Bison Order No. | Bison Price |
|---|---|---|---|---|---|
| 5 | 1.260 | - | - | **HK308200500** | Price |
| 6 | 1.654 | **HK3138200600P** | Price | **HK308200600** | Price |
| 8 | 2.170 | **HK3138200800P** | Price | **HK308200800** | Price |
| 10 | 2.992 | **HK3138201000P** | Price | **HK308201000** | Price |
| 12 | 4.055 | **HK3138201200P** | Price | **HK308201200** | Price |

TOOLMEX Industrial Solutions

| Chuck Size (in.) | Hole Size (in.) | TMX Order No. | TMX Price | Bison Order No. | Bison Price |
|---|---|---|---|---|---|
| 16 | 5.354 | **HK3138201600P** | Price | **HK308201600** | Price |
| 20 | 7.480 | **HK3138202000P** | Price | **HK308202000** | Price |
| 25 | 9.921 | **HK3138202500P** | Price | **HK308202500** | Price |
| 32 | 10.500 | - | - | **HK308203200** | Price |

## ROHM 3-Jaw Geared Scroll Chucks ZG

- Self-centering
- Jaws can be moved across the entire clamping range
- Workpieces with different diameters can be clamped without changing or shifting the jaws
- Vibration isolatin body made of iron cast
- Scroll drop-forged, balanced, hardened
- With one set of outward stepped jaws and one set of inward stepped jaws



| Chuck Dia. (in.) | Hole Size (in.) | Max. RPM | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 4 | .787 | 4500 | 6.4525 lbs | **HK80101781** | Price |
| 5 | 1.260 | 4000 | 10.0125 lbs | **HK80101628** | Price |
| 6 | 1.654 | 3600 | 18.245 lbs | **HK80100300** | Price |
| 8 | 2.165 | 3000 | 32.485 lbs | **HK80100000** | Price |
| 10 | 2.992 | 2500 | 57.1825 lbs | **HK80100200** | Price |
| 12-1/2 | 4.055 | 2000 | 124.6 lbs | **HK80101248** | Price |

## ROHM 3-Jaw Lathe Scroll Chucks ZSU

- Self-centering
- Jaws can be moved across the entire clamping range
- Workpieces with different diameters can be clamped without changing or shifting the jaws
- Vibration isolatin body made of steel
- Scroll drop-forged, balanced, hardened
- With base jaws and reversible hard top jaws



| Chuck Dia. (in.) | Hole Size | Max. RPM | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 4 | .787 | 4500 | 6.4525 lbs | **HK80101788** | Price |
| 5 | 1.260 | 4000 | 98.345 lbs | **HK80101678** | Price |
| 6 | 1.654 | 3600 | 18.245 lbs | **HK80100725** | Price |
| 8 | 2.165 | 3000 | 32.485 lbs | **HK80100189** | Price |
| 10 | 2.992 | 2500 | 57.1825 lbs | **HK80100541** | Price |
| 12-1/2 | 4.055 | 2000 | 98.345 lbs | **HK80101350** | Price |

## ROHM 4-Jaw Geared Scroll Chucks ZG

- Self-centering
- Jaws can be moved across the entire clamping range
- Workpieces with different diameters can be clamped without changing or shifting the jaws
- Vibration isolatin body made of iron cast
- Scroll drop-forged, balanced, hardened
- With one set of outward stepped jaws and one set of inward stepped jaws



| Chuck Dia. (in.) | Hole Size (in.) | Max. RPM | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 4 | .787 | 4500 | 6.4525 lbs | **HK80102129** | Price |
| 5 | 1.260 | 4000 | 10.0125 lbs | **HK80106074** | Price |
| 6 | 1.654 | 3600 | 18.245 lbs | **HK80100325** | Price |
| 8 | 2.165 | 3000 | 32.485 lbs | **HK80100465** | Price |
| 10 | 2.992 | 2500 | 57.1825 lbs | **HK80100834** | Price |
| 12-1/2 | 4.055 | 2000 | 98.345 lbs | **HK80101567** | Price |

## BTC 4 Jaw Semi Steel Self Centering Scroll Chucks

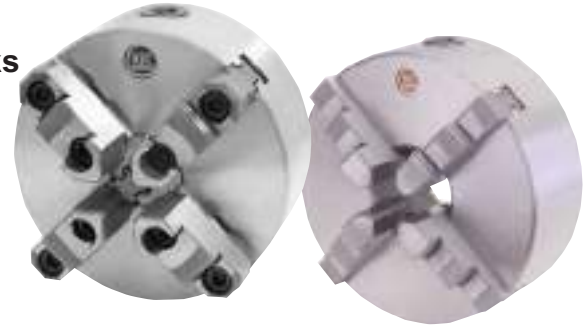
### Flatback Solid Jaws or Top Reversible Jaws

**CAUTION: Jaws can not be operated separately**

- These chucks have jaws that are operated on a scroll
- Not to be confused with four jaw independent chucks

**Supplied With:**

- 2 Sets of hard solid jaws (1 internal and 1 external) or top reversible jaws
- T-wrench
- Mounting screws



| Chuck Size (in.) | Hole Size (in.) | Weight | Order No. | Price |
|---|---|---|---|---|
| 5 | 1.181 | 18 lbs | **HK157054** | Price |
| 6 | 1.575 | 22 lbs | **HK157064** | Price |
| 6 | 1.575 | 22 lbs | **HK157064R** | Price |
| 8 | 2.559 | 34 lbs | **HK157084** | Price |
| 8 | 2.559 | 34 lbs | **HK157084R** | Price |
| 10 | 3.150 | 58 lbs | **HK157104** | Price |
| 10 | 3.150 | 51 lbs | **HK157104R** | Price |
| 12 | 3.937 | 104 lbs | **HK157124R** | Price |
| 15 | 5.315 | 140 lbs | **HK157154R** | Price |
| 20 | 8.268 | 265 lbs | **HK157204R** | Price |
| 25 | 10.630 | 467 lbs | **HK157254R** | Price |

## 4-Jaw Combination Flatback Top Reversible & Solid Jaw Chucks



- Semi steel
- Self centering and independent type enable the jaws to achieve a self centering clamping and be adjusted seperately
- T-wrench
- Mounting Screws

| | | | 4J Combination Chuck Solid Jaws | | 4J Combination Chuck Top Rev. Jaws | |
|---|---|---|---|---|---|---|
| Chuck Size (in.) | Hole Size (in.) | Weight | Order No. | Price | Order No. | Price |
| 6 | 1.654 | 37 lbs | **HK15F064** | Price | **HK15F064R** | Price |
| 8 | 2.559 | 45 lbs | **HK15F084** | Price | **HK15F084R** | Price |
| 10 | 3.15 | 68 lbs | **HK15F104** | Price | **-** | - |
| 12 | 3.937 | 106 lbs | **HK15F124** | Price | **HK15F124R** | Price |

## 4-Jaw Medium Duty Independent Lathe Chucks With Hardened Reversible Jaws

### Economy & Quality - Plain Back Chuck



- Cast iron body
- Thrust bearings and operating screws made of hardened steel
- All chucks come standard with 1 Set of solid reversible jaws and wrench
- † Steel Body †† Amer. Std. 2 Pc. jaw

| Chuck Dia. (in.) | Hole Size (in.) | Approx. Weight | Order No. | Price |
|---|---|---|---|---|
| 3-1/2 | .984 | 5 lbs | **HK308500300†** | Price |
| 5 | 1.023 | 8 lbs | **HK308500500†** | Price |
| 6 | 1.653 | 10 lbs | **HK308500600†** | Price |
| 8 | 1.968 | 31 lbs | **HK308500800** | Price |
| 10 | 2.559 | 55 lbs | **HK308501000** | Price |
| 12 | 3.149 | 86 lbs | **HK308501200** | Price |

| Chuck Dia. (in.) | Hole Size (in.) | Approx. Weight | Order No. | Price |
|---|---|---|---|---|
| 16 | 3.937 | 135 lbs | **HK308501600** | Price |
| 20 | 4.921 | 232 lbs | **HK308502000** | Price |
| 25 | 6.299 | 360 lbs | **HK308502500** | Price |
| 32 | 10.500 | 600 lbs | **HK308503300** | Price |
| 32 | 7.874 | 700 lbs | **HK308503200** | Price |
| 36 | 7.480 | 950 lbs | **HK308503622††** | Price |

## 4-Jaw Medium Duty Independent Lathe Chucks With Hardened Reversible Jaws

### Economy & Quality - Plain Back Chuck



**Bison Features:**

- Cast iron body
- Thrust bearings and operating screws made of hardened steel
- All chucks come standard with 1 Set of solid reversible jaws and wrench
- † Steel Body †† Amer. Std. 2 Pc. jaw

**Toolmex Features:**

- Forged steel bodies at 28 HRc
- Hard solid reversible jaws are made of alloy then hardened and ground
- Operating screws are hardened and ground
- Chucks 10” and larger have T-slots
- 1 Set of hard solid reversible jaws
- 1 Chuck wrench
- 1 Set of mounting bolts

TOOLMEX Industrial Solutions

| | | | TMX | | Bison | |
|---|---|---|---|---|---|---|
| Chuck Dia. (in.) | Hole Size (in.) | Approx. Weight | Order No. | Price | Order No. | Price |
| 3-1/2 | .984 | 5 lbs | **-** | - | **HK308500300†** | Price |
| 5 | 1.024 | 8 lbs | **HK3138550501P** | Price | **HK308500500†** | Price |
| 6 | 1.654 | 10 lbs | **HK3138550601P** | Price | **HK308500600†** | Price |
| 8 | 1.970 | 31 lbs | **HK3138550800P** | Price | **HK308500800** | Price |
| 10 | 2.560 | 55 lbs | **HK3138551000P** | Price | **HK308501000** | Price |
| 12 | 3.150 | 106 lbs | **HK3138551200P** | Price | **HK308501200** | Price |

TOOLMEX Industrial Solutions

| | | | TMX | | Bison | |
|---|---|---|---|---|---|---|
| Chuck Dia. (in.) | Hole Size (in.) | Approx. Weight | Order No. | Price | Order No. | Price |
| 16 | 3.940 | 188 lbs | **HK3138551600P** | Price | **HK308501600** | Price |
| 20 | 4.921 | 333 lbs | **HK3138552000P** | Price | **HK308502000** | Price |
| 25 | 6.300 | 360 lbs | **HK3138552500P** | Price | **HK308502500** | Price |
| 32 | 7.874 | 600 lbs | **-** | - | **HK308503300** | Price |
| 32 | 7.874 | 700 lbs | **-** | - | **HK308503200** | Price |
| 36 | 7.480 | 950 lbs | **-** | - | **HK308503622††** | Price |

## 4-Jaw Plain Back Chucks



**Bison Features:**

- 1 Set of hard master jaws
- 1 Set of hard top reversible jaws
- 1 Chuck wrench
- 1 Set of mounting bolts
- 2 Hex keys
- Eye bolts for chuck sizes 16” and larger

**Toolmex Features:**

- 1 Set of hard master jaws
- 1 Set of hard top reversible jaws
- 1 Chuck wrench
- 1 Set of mounting botls
- Eye bolts for chuck sizes 15-3/4” diameter and larger

| Type - Semi-Steel Lathe Chuck | | | |
|---|---|---|---|
| | | Bison | |
| Chuck Size (in.) | Hole Size (in.) | Order No. | Price |
| 5 | 1.260 | **HK308400500** | Price |
| 6 | 1.653 | **HK308400600** | Price |
| 8 | 2.165 | **HK308400800** | Price |
| 10 | 2.992 | **HK308401000** | Price |
| 12 | 4.060 | **HK308401200** | Price |
| 16 | 5.354 | **HK308401600** | Price |
| 20 | 7.480 | **HK308402000** | Price |

TOOLMEX Industrial Solutions

| Type - Steel Body Self-Centering Lathe Chuck | | | | | |
|---|---|---|---|---|---|
| | | Bison | | TMX | |
| Chuck Size (in.) | Hole Size (in.) | Order No. | Price | Order No. | Price |
| 6 | 1.653 | **HK308410600** | Price | **HK3138410600P** | Price |
| 10 | 2.992 | **HK308411000** | Price | **HK3138411000P** | Price |
| 12 | 4.055 | **HK308411200** | Price | **HK3138411200P** | Price |
| 16 | 5.354 | **HK308411600** | Price | **HK3138411600P** | Price |
| 20 | 7.480 | **HK308412000** | Price | **-** | - |
| 25 | 9.921 | **HK308412500** | Price | **-** | - |
| 5 | 1.260 | **-** | - | **HK3138410500P** | Price |
| 8 | 2.165 | **-** | - | **HK3138410800P** | Price |

## 4-Jaw Plain Back, Forged Steel Body Lathe Chuck

**Bison Features:**
- All chucks 10" and above have T-slots
- Forged steel body
- Heavy duty 4-jaw independent chucks are designed to grip round or odd shaped work

**Standard Accessories:**
- 2 Pc. reversible jaws (hard top jaws and hard master jaws)
- (1) Wrench
- (1) Set of clamping bolts

**Toolmex Features:**
- Forged steel bodies at 28 HRc for durability and rigidity
- 2 Pc. hard reversible American Standard Tonge and Groove jaws are made of high quality alloy then hardened and ground
- Chucks 10" and larger have T-slots

**Standard Accessories:**
- 2 Pc. reversible jaws (hard top jaws and hard master jaws)
- (1) Wrench
- (1) Set of mounting bolts



| | | Bison | | TMX | |
|---|---|---|---|---|---|
| Chuck Size (in.) | Hole Size (in.) | Order No. | Price | Order No. | Price |
| 8 | 1.970 | **HK308550800F** | Price | **HK3138550800P** | Price |
| 10 | 2.560 | **HK308551000F** | Price | **HK3138551000P** | Price |
| 12 | 3.150 | **HK308551200F** | Price | **HK3138551200P** | Price |
| 16 | 3.940 | **HK308551600F** | Price | **HK3138551600P** | Price |
| 20 | 4.921 | **HK308552000F** | Price | **HK3138552000P** | Price |

| | | Bison | | TMX | |
|---|---|---|---|---|---|
| Chuck Size (in.) | Hole Size (in.) | Order No. | Price | Order No. | Price |
| 25 | 6.300 | **HK308552500F** | Price | **HK3138552500P** | Price |
| 32 | 7.870 | **HK308553200F** | Price | **-** | - |
| 36 | 7.480 | **HK308553600F** | Price | **-** | - |
| 40 | 7.480 | **HK308554000F** | Price | **-** | - |
| 49 | 7.480 | **HK308554900F** | Price | **-** | - |

## 4-Jaw Independent Direct Mount Chuck Type D

### Forged Steel

- All chucks 10" and above have T-slots
- Forged steel body

**Standard Accessories:**
- 2 Pc. reversible jaws (hard top jaws and hard master jaws)
- (1) Wrench
- (1) Set of clamping bolts

**Toolmex Features:**
- Designed to grip round or odd shaped work pieces
- Hard top and master jaws are made of high quality alloy steel then hardened and ground
- All 4-Jaw independent chucks 10" and above have t-slots



| | | | Bison | | TMX | |
|---|---|---|---|---|---|---|
| Chuck Size (in.) | Hole Size (in.) | Mount | Order No. | Price | Order No. | Price |
| 8 | 1.968 | D1-3 | **-** | - | **HK3138570833P** | Price |
| 8 | 1.968 | D1-4 | **HK308570834F** | Price | **HK3138570834P** | Price |
| 8 | 1.968 | D1-5 | **HK308570835F** | Price | **-** | - |
| 8 | 1.968 | D1-6 | **HK308570836F** | Price | **-** | - |
| 10 | 2.560 | D1-5 | **HK308571035F** | Price | **-** | - |
| 10 | 2.560 | D1-6 | **HK308571036F** | Price | **HK3138571036P** | Price |
| 10 | 2.560 | D1-8 | **HK308571038F** | Price | **-** | - |
| 12 | 3.150 | D1-6 | **HK308571236F** | Price | **HK3138571236P** | Price |
| 12 | 3.150 | D1-8 | **HK308571238F** | Price | **HK3138571238P** | Price |
| 16 | 3.937 | D1-6 | **HK308571636F** | Price | **HK3138571636P** | Price |
| 16 | 3.937 | D1-8 | **HK308571638F** | Price | **HK3138571638P** | Price |

| | | | Bison | | TMX | |
|---|---|---|---|---|---|---|
| Chuck Size (in.) | Hole Size (in.) | Mount | Order No. | Price | Order No. | Price |
| 16 | 3.937 | D1-9 | **-** | - | **HK3138571639P** | Price |
| 16 | 3.937 | D1-11 | **HK308571639F** | Price | **-** | - |
| 20 | 4.921 | D1-8 | **HK308572038F** | Price | **HK3138572038P** | Price |
| 20 | 4.921 | D1-11 | **HK308572039F** | Price | **HK3138572039P** | Price |
| 25 | 4.921 | D1-8 | **HK308572538F** | Price | **-** | - |
| 25 | 6.300 | D1-8 | **-** | - | **HK3138572538P** | Price |
| 25 | 6.300 | D1-11 | **HK308572539F** | Price | **HK3138572539P** | Price |
| 25 | 6.300 | D1-15 | **HK308572540F** | Price | **-** | - |
| 32 | 7.560 | D1-11 | **HK308573239F** | Price | **-** | - |
| 32 | 7.480 | D1-15 | **HK308573240F** | Price | **-** | - |

## Self-Ejecting Lathe Chuck Keys

- Made to fit all makes of lathe chucks
- Meets all safety specificaions



| Size of Square (in.) | OAL (in.) | Handle Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 7/32 | 2-3/8 | 3-1/8 | **HK40125** | Price |
| 1/4 | 3-1/2 | 4 | **HK40126** | Price |
| 9/32 | 4-1/2 | 5 | **HK40128** | Price |
| 5/16 | 4-1/2 | 5 | **HK40128A** | Price |
| 3/8 | 3 | 6 | **HK40129** | Price |
| 3/8 | 5-1/2 | 6 | **HK40129A** | Price |
| 13/32 | 3-3/4 | 6 | **HK40130** | Price |
| 13/32 | 8-1/8 | 6 | **HK40131** | Price |
| 7/16 | 6 | 10 | **HK40132A** | Price |
| 15/32 | 8-1/16 | 10 | **HK40132B** | Price |
| 1/2 | 5-1/8 | 8 | **HK40133** | Price |
| 1/2 | 8-1/16 | 12 | **HK40134** | Price |

| Size of Square (in.) | OAL (in.) | Handle Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 1/2 | 11 | 11-1/2 | **HK40135** | Price |
| 1/2 | 14-5/8 | 11-1/2 | **HK40136** | Price |
| 1/2 | 18-1/2 | 11-1/2 | **HK40137** | Price |
| 9/16 | 5-1/8 | 12 | **HK40138** | Price |
| 9/16 | 8-9/16 | 11-1/2 | **HK40139** | Price |
| 9/16 | 9-7/16 | 14 | **HK40140** | Price |
| 9/16 | 11/16 | 11-1/2 | **HK40141** | Price |
| 9/16 | 13-13/16 | 11-1/2 | **HK40142** | Price |
| 9/16 | 17 | 18 | **HK40143** | Price |
| 5/8 | 10-1/4 | 20 | **HK40145** | Price |
| 11/16 | 12 | 14 | **HK40146** | Price |
| 3/4 | 9-7/8 | 18 | **HK40147** | Price |

## 4-Jaw Independent Chucks Direct Mount Type "D" Solid Jaws or Top Reversible Jaws

- Chucks have jaws that are operated individully to allow solid gripping of oddly shaped work pieces
- Semi-Steel or Steel Body Style

**Supplied With:**

- One piece solid reversible jaws or top reversible jaws
- T-Wrench
- Mounting screws
- T- Slots in 12” and larger



| Type - 4 Jaw Independent Direct Mount - Type D (Solid) | | | | | |
|---|---|---|---|---|---|
| Chuck Size (in.) | Mount | Hole Size (in.) | Weight | Order No. | Price |
| 6 | D1-3 | 1.772 | 23 lbs | **HK154064D3** | Price |
| 8 | D1-3 | 1.772 | 35 lbs | **HK154084D3** | Price |
| 8 | D1-4 | 2.205 | 35 lbs | **HK154084D4** | Price |
| 8 | D1-5 | 2.205 | 36 lbs | **HK154084D5** | Price |
| 8 | D1-6 | 1.812 | 37 lbs | **HK154084D6** | Price |
| 10 | D1-5 | 2.953 | 51 lbs | **HK154104D5** | Price |
| 10 | D1-6 | 2.953 | 51 lbs | **HK154104D6** | Price |
| 10 | D1-8 | 2.953 | 51 lbs | **HK154104D8** | Price |
| 12 | D1-6 | 3.740 | 100 lbs | **HK154124D6** | Price |
| 12 | D1-8 | 3.740 | 100 lbs | **HK154124D8** | Price |
| 14 | D1-6 | 3.740 | 125 lbs | **HK154144D6** | Price |
| 14 | D1-8 | 3.740 | 125 lbs | **HK154144D8** | Price |
| 16 | D1-6 | 3.740 | 139 lbs | **HK154164D6** | Price |
| 16 | D1-8 | 4.921 | 139 lbs | **HK154164D8** | Price |
| 16 | D1-11 | 4.921 | 139 lbs | **HK154164D11** | Price |
| 20 | D1-8 | 5.354 | 227 lbs | **HK154204D8** | Price |
| 20 | D1-11 | 6.300 | 227 lbs | **HK154204D11** | Price |
| 20 | D1-15 | 6.300 | 227 lbs | **HK154204D15** | Price |
| 25 | D1-8 | 7.087 | 358 lbs | **HK154254D8** | Price |
| 25 | D1-11 | 7.087 | 358 lbs | **HK154254D11** | Price |
| 25 | D1-15 | 7.087 | 358 lbs | **HK154254D15** | Price |

| Type - 4 Jaw Independent Direct Mount - Type D (Top Reversible) | | | | | |
|---|---|---|---|---|---|
| Chuck Size (in.) | Mount | Hole Size (in.) | Weight | Order No. | Price |
| 25 | D1-11 | 7.087 | 358 lbs | **HK15S4254D11R** | Price |
| 6 | D1-3 | 1.772 | 23 lbs | **HK154064D3R** | Price |
| 8 | D1-3 | 1.772 | 35 lbs | **HK154084D3R** | Price |
| 8 | D1-4 | 2.205 | 35 lbs | **HK15S4084D4R** | Price |
| 8 | D1-4 | 2.205 | 35 lbs | **HK154084D4R** | Price |

| Type - 4 Jaw Independent Direct Mount - Type D (Top Reversible) | | | | | |
|---|---|---|---|---|---|
| Chuck Size (in.) | Mount | Hole Size (in.) | Weight | Order No. | Price |
| 8 | D1-5 | 2.205 | 36 lbs | **HK154084D5R** | Price |
| 8 | D1-6 | 2.205 | 37 lbs | **HK154084D6R** | Price |
| 10 | D1-5 | 2.953 | 51 lbs | **HK154104D5R** | Price |
| 10 | D1-6 | 2.953 | 51 lbs | **HK15S4104D6R** | Price |
| 10 | D1-6 | 2.953 | 51 lbs | **HK154104D6R** | Price |
| 10 | D1-8 | 2.953 | 51 lbs | **HK15S4104D8R** | Price |
| 10 | D1-8 | 2.953 | 51 lbs | **HK154104D8R** | Price |
| 12 | D1-6 | 3.740 | 100 lbs | **HK15S4124D6R** | Price |
| 12 | D1-6 | 3.740 | 100 lbs | **HK154124D6R** | Price |
| 12 | D1-8 | 3.740 | 100 lbs | **HK15S4124D8R** | Price |
| 12 | D1-8 | 3.740 | 100 lbs | **HK154124D8R** | Price |
| 14 | D1-6 | 3.740 | 125 lbs | **HK154144D6R** | Price |
| 14 | D1-8 | 3.740 | 125 lbs | **HK154144D8R** | Price |
| 16 | D1-6 | 3.740 | 139 lbs | **HK15S4164D6R** | Price |
| 16 | D1-6 | 3.740 | 139 lbs | **HK154164D6R** | Price |
| 16 | D1-8 | 4.921 | 139 lbs | **HK15S4164D8R** | Price |
| 16 | D1-8 | 4.921 | 139 lbs | **HK154164D8R** | Price |
| 16 | D1-11 | 4.921 | 139 lbs | **HK15S4164D11R** | Price |
| 16 | D1-11 | 4.921 | 139 lbs | **HK154164D11R** | Price |
| 20 | D1-8 | 5.354 | 227 lbs | **HK15S4204D8R** | Price |
| 20 | D1-8 | 5.354 | 227 lbs | **HK154204D8R** | Price |
| 20 | D1-11 | 6.300 | 227 lbs | **HK15S4204D11R** | Price |
| 20 | D1-11 | 6.300 | 227 lbs | **HK154204D11R** | Price |
| 20 | D1-15 | 6.300 | 227 lbs | **HK154204D15R** | Price |
| 25 | D1-8 | 7.087 | 358 lbs | **HK154254D8R** | Price |
| 25 | D1-8 | 7.087 | 358 lbs | **HK15S4254D8R** | Price |
| 25 | D1-11 | 7.087 | 358 lbs | **HK154254D11R** | Price |
| 25 | D1-15 | 7.087 | 358 lbs | **HK154254D15R** | Price |

## 4-Jaw Independent Type "D1" Direct Mount Chucks - Hard Solid Reversible Jaws

**Bison Features:**

- Semi steel body
- Designed to grip round or odd shaped work
- Hard solid reversible jaws
- All chucks with diameters of 10” and larger have T-slots

**Standard Accessories:**

- (1) Set of hard solid reversible jaws
- (1) Wrench
- (1) Set of clamping bolts



| Chuck Size (in.) | Mount | Hole Size (in.) | Order No. | Price |
|---|---|---|---|---|
| 8 | D1-3 | 1.970 | **HK308530833** | Price |
| 8 | D1-4 | 1.970 | **HK308530834** | Price |
| 8 | D1-5 | 1.970 | **HK308530835** | Price |
| 10 | D1-4 | 2.360 | **HK308531034** | Price |
| 10 | D1-5 | 2.360 | **HK308531035** | Price |
| 10 | D1-6 | 2.360 | **HK308531036** | Price |
| 12 | D1-6 | 3.150 | **HK308531236** | Price |

| Chuck Size (in.) | Mount | Hole Size (in.) | Order No. | Price |
|---|---|---|---|---|
| 12 | D1-8 | 3.150 | **HK308531238** | Price |
| 16 | D1-6 | 3.940 | **HK308531636** | Price |
| 16 | D1-8 | 3.940 | **HK308531638** | Price |
| 16 | D1-11 | 3.940 | **HK308531639** | Price |
| 20 | D1-8 | 4.920 | **HK308532038** | Price |
| 20 | D1-11 | 4.920 | **HK308532039** | Price |
| 25 | D1-11 | 6.300 | **HK308532539** | Price |

## 4-Jaw Independent Chucks Direct Mount Type "A" Solid Jaws or Top Reversible Jaws

- Chucks have jaws that are operated individully to allow solid gripping of oddly shaped work pieces
- Steel Body



**Supplied With:**

- One piece solid reversible jaws or top reversible jaws
- T-Wrench
- Mounting screws
- T- Slots in 12” and larger

| Type - 4 Jaw Independent Direct Mount - Type A (Top Reversible) | | | | | |
|---|---|---|---|---|---|
| Chuck Size (in.) | Mount | Hole Size (in.) | Weight | Order No. | Price |
| 8 | A2-5 | 2.205 | 35 lbs | **HK15S4084A5R** | Price |
| 10 | A2-6 | 2.953 | 51 lbs | **HK15S4104A6R** | Price |
| 12 | A2-6 | 3.740 | 100 lbs | **HK15S4124A6R** | Price |
| 12 | A2-8 | 3.740 | 100 lbs | **HK15S4124A8R** | Price |
| 16 | A2-6 | 4.921 | 139 lbs | **HK15S4164A6R** | Price |
| 16 | A2-8 | 4.921 | 139 lbs | **HK15S4164A8R** | Price |

| Type - 4 Jaw Independent Direct Mount - Type A (Top Reversible) | | | | | |
|---|---|---|---|---|---|
| Chuck Size (in.) | Mount | Hole Size (in.) | Weight | Order No. | Price |
| 20 | A2-8 | 5.354 | 265 lbs | **HK15S4204A8R** | Price |
| 20 | A2-11 | 5.354 | 265 lbs | **HK15S4204A11R** | Price |
| 25 | A2-11 | 7.500 | 385 lbs | **HK15S4254A11R** | Price |
| 25 | A2-15 | 10.500 | 385 lbs | **HK15S4254A15R** | Price |
| 25 | A2-20 | 12.500 | 385 lbs | **HK15S4254A20R** | Price |
| 32 | A2-11 | 7.283 | 587 lbs | **HK15S4324A11R** | Price |
| 32 | A2-15 | 8.268 | 567 lbs | **HK15S4324A15R** | Price |

## 4-Jaw Independent Type "A" Direct Mount Hard Solid Reversible Jaws

**BTC Features:**
- Chucks have jaws that are operated individully to allow solid gripping of oddly shaped work pieces
- Semi-steel or Steel Body Styles

**Supplied With:**
- One piece solid reversible jaws or top reversible jaws
- T-Wrench
- Mounting screws
- T- Slots in 12” and larger

**Bison Features:**
- Semi steel body
- Type A2 spindle has a 1 bolt pattern, outside the taper, only an A2 chuck will fit
- All chucks 10” and above have T-slots

**Standard Accessories:**
- (1) Set of hard solid reversible jaws
- (1) Wrench
- (1) Set of clamping bolts



| | | Bison | | | BTC | | |
|---|---|---|---|---|---|---|---|
| Chuck Size (in.) | Mount | Hole Size | Order No. | Price | Hole Size | Order No. | Price |
| 8 | A2-4 | - | - | - | 2.205 | **HK154084A4** | Price |
| 8 | A2-5 | 1.969 | **HK308510815** | Price | - | - | - |
| 8 | A2-6 | 1.969 | **HK308510816** | Price | - | - | - |
| 10 | A2-5 | 2.559 | **HK308511025** | Price | 2.953 | **HK154104A5** | Price |
| 10 | A2-6 | 2.559 | **HK308511016** | Price | 2.953 | **HK154104A6** | Price |
| 10 | A2-8 | 2.559 | **HK308511018** | Price | - | - | - |
| 12 | A2-5 | 3.150 | **HK308511215** | Price | - | - | - |
| 12 | A2-6 | 3.150 | **HK308511226** | Price | 3.740 | **HK154124A6** | Price |
| 12 | A2-8 | 3.150 | **HK308511218** | Price | 3.740 | **HK154124A8** | Price |
| 16 | A2-5 | - | - | - | 3.110 | **HK154164A5** | Price |
| 16 | A2-6 | 3.937 | **HK308511626** | Price | 3.740 | **HK154164A6** | Price |
| 16 | A2-8 | 3.937 | **HK308511628** | Price | 4.921 | **HK154164A8** | Price |
| 16 | A2-11 | 3.937 | **HK308511619** | Price | - | - | - |
| 20 | A2-8 | - | - | - | 5.354 | **HK154204A8** | Price |
| 20 | A2-11 | 4.921 | **HK308512019** | Price | 6.299 | **HK154204A11** | Price |
| 25 | A2-11 | 6.299 | **HK308512519** | Price | 7.500 | **HK154254A11** | Price |
| 25 | A2-15 | - | - | - | 10.500 | **HK154254A15** | Price |
| 25 | A2-20 | - | - | - | 12.500 | **HK154254A20** | Price |
| 32 | A2-11 | 6.299 | **HK308513219** | Price | 7.283 | **HK154324A11** | Price |
| 32 | A2-15 | - | - | - | 8.268 | **HK154324A15** | Price |
| 32 | A2-20 | 12.500 | **HK308513220** | Price | - | - | - |

## 4-Jaw Independent Type "A" Direct Mount Chucks

**TMX Features:**
- Designed to grip round or odd shaped work pieces
- Hard top and master jaws are made of high quality alloy steel then hardened and ground
- All 4-Jaw independent chucks 10” and above have t-slots

**Supplied With:**
- Solid Jaws

**BTC Features:**
- Chucks have jaws that are operated individully to allow solid gripping of oddly shaped work pieces
- Semi-steel or Steel Body Styles

**Supplied With:**
- One piece solid reversible jaws or top reversible jaws
- T-Wrench
- Mounting screws
- T- Slots in 12” and larger

**Bison Features:**
- Forged steel body
- Type A1 spindle has a 2 bolt hole pattern, inside and outside the taper, either and A1 or A2 chuck will fit
- Type A2 spindle has a 1 bolt pattern, outside the taper, only an A2 chuck will fit
- All chucks 10” and above have T

**Bison Accessories:**
- 2 Pc. reversible jaws (hard top jaws and hard master jaws)
- (1) Wrench
- (1) Set of clamping bolts



| | | Bison | | | TMX | | | BTC | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Chuck Size (in.) | Mount | Hole Size (in.) | Order No. | Price | Hole Size (in.) | Order No. | Price | Hole Size (in.) | Order No. | Price |
| 8 | A2-4 | - | - | - | - | - | - | 2.205 | **HK154084A4R** | Price |
| 8 | A2-6 | 1.97 | **HK308560816F** | Price | 1.968 | **HK3138560816P** | Price | - | - | - |
| 10 | A2-5 | - | - | - | - | - | - | 2.953 | **HK154104A5R** | Price |
| 10 | A2-6 | 2.559 | **HK308561016F** | Price | 2.559 | **HK3138561016P** | Price | 2.953 | **HK154104A6R** | Price |
| 10 | A2-8 | 2.559 | **HK308561018F** | Price | 2.559 | **HK3138561018P** | Price | - | - | - |
| 12 | A2-5 | - | - | - | - | - | - | 3.110 | **HK154164A5R** | Price |
| 12 | A2-6 | 3.150 | **HK308561216F** | Price | 3.15 | **HK3138561216P** | Price | 3.740 | **HK154124A6R** | Price |
| 12 | A2-8 | 3.150 | **HK308561218F** | Price | 3.15 | **HK3138561218P** | Price | 3.740 | **HK154124A8R** | Price |
| 16 | A2-6 | 3.937 | **HK308561616F** | Price | 3.937 | **HK3138561616P** | Price | 3.740 | **HK154164A6R** | Price |
| 16 | A2-8 | 3.937 | **HK308561618F** | Price | 3.937 | **HK3138561618P** | Price | 4.921 | **HK154164A8R** | Price |
| 16 | A2-11 | 3.937 | **HK308561619F** | Price | 3.937 | **HK3138561619P** | Price | - | - | - |
| 20 | A2-8 | 4.921 | **HK308562018F** | Price | 4.921 | **HK3138562018P** | Price | 5.354 | **HK154204A8R** | Price |
| 20 | A2-11 | 4.921 | **HK308562019F** | Price | 4.921 | **HK3138562019P** | Price | 6.299 | **HK154204A11R** | Price |
| 20 | A2-15 | - | - | - | 4.921 | **HK3138562020P** | Price | - | - | - |
| 25 | A2-11 | 6.299 | **HK308562519F** | Price | 6.299 | **HK3138562519P** | Price | 7.500 | **HK154254A11R** | Price |
| 25 | A2-15 | 6.299 | **HK308562520F** | Price | 6.299 | **HK3138562520P** | Price | 10.500 | **HK154254A15R** | Price |
| 25 | A2-20 | - | - | - | - | - | - | 12.500 | **HK154254A20R** | Price |
| 32 | A2-11 | 7.87 | **HK308563219F** | Price | - | - | - | 7.283 | **HK154324A11R** | Price |
| 32 | A2-15 | 7.87 | **HK308563220F** | Price | - | - | - | 8.268 | **HK154324A15R** | Price |
| 32 | A2-20 | 7.87 | **HK308563229F** | Price | - | - | - | - | - | - |

## Front Mounting 3 & 4-Jaw Self-Centering Scroll Chucks



**Bison Features:**
- Two-piece hard reversible jaws
- Scroll and jaws are hardened and ground

**BTC Features:**
- American standard two-piece tongue and groove Jaws
- Scroll and jaws hardened and ground
- Top reversible jaws

**Supplied With:**
- Master jaws and top jaws
- T-wrench
- Mounting screws

**Toolmex Features:**
- Forged steel bodies for durability and rigidity
- Two-piece hard reversible American Standard Tongue and Groove jaws are made of high quality alloy steel then hardened and ground

| Number of Jaws - 3 Type - Semi-Steel Lathe Chuck | | | | | |
|---|---|---|---|---|---|
| | | BTC | | Bison | |
| Chuck Size (in.) | Hole Size (in.) | Order No. | Price | Order No. | Price |
| 5 | 1.259 | - | - | **HK308120500** | Price |
| 6 | 1.575 | **HK15F3063R** | Price | - | - |
| 6 | 1.654 | - | - | **HK308120600** | Price |
| 8 | 2.165 | **HK15F3083R** | Price | **HK308120800** | Price |
| 10 | 2.992 | **HK15F3103R** | Price | **HK308121000** | Price |
| 12 | 4.055 | **HK15F3123R** | Price | **HK308121200** | Price |
| 15 | 5.315 | **HK15F3153R** | Price | - | - |
| 16 | 5.354 | - | - | **HK308121600** | Price |
| 20 | 8.268 | **HK15F3203R** | Price | - | - |
| 25 | 10.630 | **HK15F3253R** | Price | - | - |

| Number of Jaws - 3 Type - Steel Body Lathe Chuck | | | | | |
|---|---|---|---|---|---|
| | | BTC | | TMX | |
| Chuck Size (in.) | Hole Size (in.) | Order No. | Price | Order No. | Price |
| 5 | 1.260 | - | - | **HK3138130500P** | Price |
| 6 | 1.575 | **HK15SF3063R** | Price | **HK3138130600P** | Price |
| 8 | 2.165 | **HK15SF3083R** | Price | **HK3138130800P** | Price |
| 10 | 2.992 | **HK15SF3103R** | Price | **HK3138131000P** | Price |
| 12 | 4.055 | **HK15SF3123R** | Price | **HK3138131200P** | Price |
| 15 | 5.315 | **HK15SF3153R** | Price | - | - |
| 16 | 5.354 | - | - | **HK3138131600P** | Price |
| 16 | 8.661 | - | - | **HK3138191600P** | Price |
| 20 | 8.268 | **HK15SF3203R** | Price | **HK3138132000P** | Price |
| 25 | 10.630 | **HK15SF3253R** | Price | **HK3138132500P** | Price |
| 21 | 12.598 | - | - | **HK3138192000P** | Price |

| Number of Jaws - 4 Type - Semi-Steel Lathe Chuck | | | |
|---|---|---|---|
| | | Bison | |
| Chuck Size (in.) | Hole Size (in.) | Order No. | Price |
| 5 | 1.259 | **HK308140500** | Price |
| 6 | 1.654 | **HK308140600** | Price |
| 8 | 2.165 | **HK308140800** | Price |
| 10 | 2.992 | **HK308141000** | Price |
| 12 | 4.055 | **HK308141200** | Price |
| 16 | 5.354 | **HK308141600** | Price |

| Number of Jaws - 4 Type - Steel Body Lathe Chuck | | | |
|---|---|---|---|
| | | TMX | |
| Chuck Size (in.) | Hole Size (in.) | Order No. | Price |
| 6 | 1.654 | **HK3138140600P** | Price |
| 8 | 2.165 | **HK3138140800P** | Price |
| 10 | 2.992 | **HK3138141000P** | Price |
| 12 | 4.055 | **HK3138141200P** | Price |
| 16 | 5.354 | **HK3138141600P** | Price |
| 20 | 7.480 | **HK3138142000P** | Price |

## 3-Jaw Semi Steel Body Front Mounting Chucks



**Features:**
- Can be mounted directly on 3/6 slot rotary tables or on a base plate when the rotary table has 3/6 or 4/8 T-slots
- Base plates are designed for use with all rotary tables and other devices where back mounting chucks cannot be used
- Can also be mounted to a rough machined backplate, but will require machining of bolt hold patterns and projections for finished assembly

**Supplied With:**
- 2 Pc. Jaw Chucks: 1 set each Hard Master and Reversible Hard Top Jaws
- Solid Jaw Chucks: 1 set each solid ID and OD jaws
- 1 Chuck wrench
- 1 Set of mounting bolts
- Eye bolts for chuck sizes 16” and largert

| | | Bison | | TMX | |
|---|---|---|---|---|---|
| Chuck Size (in.) | Hole Size (in.) | Order No. | Price | Order No. | Price |
| 3 | .630 | - | - | **HK3138130301P** | Price |
| 4 | .787 | **HK308110400** | Price | **HK3138130401P** | Price |
| 5 | 1.260 | **HK308110500** | Price | **HK3138130501P** | Price |
| 6 | 1.654 | **HK308110600** | Price | **HK3138130601P** | Price |
| 8 | 2.165 | **HK308110800** | Price | **HK3138130801P** | Price |
| 10 | 2.992 | **HK308111000** | Price | **HK3138131001P** | Price |
| 12 | 4.055 | **HK308111200** | Price | - | - |

## Fully Machined Adapters for Rotary Tables

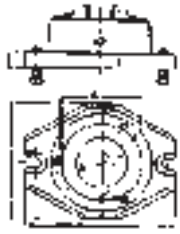
- **Standard:** For fixturing and mounting 3 & 4-jaw lathe chucks
- **Set-Tru:** for 3, 4 & 6-Jaw Set-Tru Chucks
- Supplied with 4 Mounting Bolts, T-Nuts and 1 Mt Pin



| | | Set-Tru | | Standard | |
|---|---|---|---|---|---|
| Chuck Size (in.) | Plate Thickness | Order No. | Price | Order No. | Price |
| 5 | .57 | **HK30872605** | Price | **HK30872305** | Price |
| 6 | .79 | **HK30872606** | Price | **HK30872306** | Price |
| 8 | .87 | **HK30872608** | Price | **HK30872308** | Price |
| 10 | .98 | **HK30872610** | Price | **HK30872310** | Price |
| 12 | 1.18 | **HK30872612** | Price | **HK30872312** | Price |
| 16 | 1.26 | **HK30872616** | Price | **HK30872316** | Price |

## Base Plates for Lathe Chucks

- Designed for use with Bison 2,3 & 4 Jaw, Set Tru Lathe Chucks (Back Mount Only) with a semi-steel or forged steel body
- Ideal for milling and drilling operations
- Supplied with two mounting bolts with T-nuts, two T-Slot keys and chuck wrench with sliding T-Bar
- Chucks are sold separately





### Set-Tru

| Chuck Size (in.) | A (in.) | B (in.) | h (in.) | D (in.) | E (in.) | F (in.) | d (in.) | Wt. (lbs.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 9.843 | 7.48 | 1.10 | 3.386 | 5.511 | 2.36 | .433 | 10.3 | **HK30630606** | Price |
| 8 | 11.81 | 9.252 | 1.26 | 4.331 | 6.929 | 2.76 | .433 | 16.2 | **HK30630608** | Price |
| 10 | 13.78 | 11.49 | 1.26 | 5.708 | 8.818 | 3.94 | .551 | 25 | **HK30630610** | Price |
| 12 | 16.77 | 14.25 | 1.57 | 7.087 | 11.259 | 4.72 | .669 | 35.3 | **HK30630612** | Price |
| 16 | 20.47 | 17.72 | 1.89 | 11.750 | 6.750 | 4.72 | .669 | 51.2 | **HK30630616** | Price |

### Standard

| Chuck Size (in.) | A (in,) | B (in.) | h (in.) | D (in.) | E (in.) | F (in.) | d (in.) | Wt. (lbs.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 9.843 | 7.48 | 1.10 | 4.921 | 5.512 | 3.15 | .433 | 10.3 | **HK30630006** | Price |
| 8 | 11.81 | 9.252 | 1.26 | 6.299 | 6.929 | 3.93 | .433 | 16.2 | **HK30630008** | Price |
| 10 | 13.78 | 11.49 | 1.26 | 7.874 | 8.819 | 3.93 | .551 | 25 | **HK30630010** | Price |
| 12 | 16.77 | 14.25 | 1.57 | 10.236 | 11.260 | 6.69 | .669 | 35.3 | **HK30630012** | Price |
| 16 | 20.47 | 17.72 | 1.89 | 12.992 | 12.992 | 14.25 | .669 | 51.2 | **HK30630016** | Price |

## 3-Jaw Scroll Chucks with 2 Sets of Solid Jaws

- Plain back
- New Surplus





| Chuck Size (in.) | Hole Size | Order No. | Price |
|---|---|---|---|
| 3 | .629 | **HK35303** | Price |
| 4 | .787 | **HK35304** | Price |
| 6 | 1.653 | **HK35306** | Price |
| 8 | 2.165 | **HK35308** | Price |

## 3-Jaw Scroll Chucks with 2 Pc. Top Reversible Jaws Flat (Plain) Back & Direct Mount

- New Surplus



| Chuck Size (in.) | Mount | Order No. | Price |
|---|---|---|---|
| 6 | Plain Back | **HK35306TJ** | Price |
| 8 | D-4 | **HK35308D4** | Price |
| 10 | Plain Back | **HK35310TJ** | Price |
| 12 | Plain Back | **HK35312TJ** | Price |
| 15 | Plain Back | **HK35315TJ** | Price |
| 20 | Plain Back | **HK35320TJ** | Price |

## 4-Jaw Self-Centering Machine Fixtures

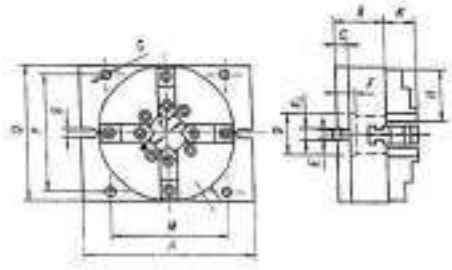
### Low Profile Forged Steel Body - Rectangular Base

- Ideal for all types of milling, grinding, drilling and tapping operations
- All surfaces are hardened and precision ground, square and parallel to an accuracy of 0.0008”
- Precision steel body 4-jaw Bison scroll chuck guarantees repeatability within 0.0004”
- American standard 2 Pc. Tongue & Groove jaws
- Ideal for pallet applications

**Standard Accessories:**

- 1 Set of two-piece reversible jaws (hard top & hard master jaws)
- 1 Ratchet wrench, 1 angled wrench
- 1 Set of mounting bolts with T-nuts





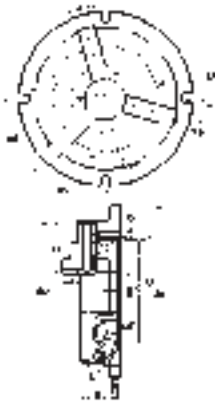
| Chuck Size (in.) | (A) (in.) | (Q) (in.) | (B) (in.) | (K) (in.) | (C) (in.) | (D) (in.) | (E) (in.) | (E1) (in.) | (F) (in.) | (G) (in.) | (H) (in.) | (M=P) (in.) | (S) (in.) | (T) (in.) | OD Clamping Range | ID Clamping Range | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 8.460 | 6.50 | 2.460 | 1.690 | 0.709 | 1.772 | .551 | .709 | 0.98 | .330 | 2.640 | 5.669 | .55 | 1.653 | .118 - 6.300 | 1.650 - 5.750 | **HK30640006** | Price |
| 8 | 9.840 | 7.87 | 2.840 | 1.770 | 7.09 | 0.709 | .551 | .709 | 1.06 | .551 | 3.150 | 6.850 | .55 | 2.170 | .157 - 7.870 | 1.970 - 7.480 | **HK30640008** | Price |
| 10 | 12.200 | 10.0 | 3.270 | 2.050 | 0.846 | 3.150 | .708 | .709 | 1.260 | .630 | 3.740 | 8.583 | .71 | 2.992 | .197 - 9.840 | 2.280 - 9.250 | **HK30640010** | Price |

## NBK Super Thin Round Chucks

### The Ultimate Low Profile 3-Jaw Universal Chuck

- Three operating pinions positioned at a 45° angle for easier operation
- Sizes available: 6, 8, 10 and 12 inch diameter
- Easy installation with flange type mounting
- Accurate - .001” repetability on duplicate parts using the nominated pinion
- Ideal for Drill Presses, Standard Mills, Vertical Machining Centers, Angle Plates, Tombstones and Grinding Machines
- American Standard hard top and master jaws
- 1 Year Warranty

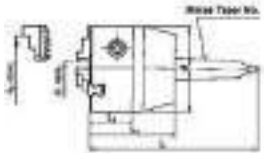




| Chuck Size (in.) | Gripping Cap. External | Gripping Cap. Internal | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 6 | Min. .31 / Max 6.30 | Min. 1.89 / Max. 5.91 | 27 lbs | **HF50NBK6** | Price |
| 8 | Min. .43 / Max. 7.87 | Min. 2.44 / Max. 7.48 | 42 lbs | **HF50NBK8** | Price |
| 10 | Min. .47 / Max. 9.84 | Min. 2.83 / Max. 9.41 | 64 lbs | **HF50NBK10** | Price |
| 12 | Min. .59 / Max. 11.81 | Min. 3.38 / Max. 11.41 | 103 lbs | **HF50NBK12** | Price |

## 3-Jaw Self-Centering Rotating Chucks with Morse Taper Shanks

- These chucks are used in tailstocks for jobs where centers cannot be used (ex.—machining of tube)
- Steel body
- Hardened and ground scroll and pinions
- Hardened and ground MT spindle
- Sealed ball bearings: lubrication through oiler
- **Standard Accessories:** 2 sets of hard solid jaws/ inside and outside/1 wrench



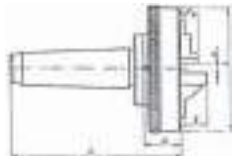




| Chuck Size (in.) | Morse Taper No. | dz min. (in.) | dx max. (in.) | L (in.) | Lz (in.) | Lx (in.) | C (in.) | Max. Speed RPM | Weight | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 2MT | .080 | 2.800 | 9.63 | 3.540 | 1.730 | 5.040 | 4000 | 8 lbs | **HK308600300** | Price |
| 4 | 3MT | .120 | 3.660 | 8.09 | 3.980 | 2.000 | 6.020 | 3500 | 13.5 lbs | **HK308600400** | Price |
| 5 | 4MT | .120 | 4.920 | 9.45 | 4.570 | 2.200 | 7.320 | 3200 | 24.5 lbs | **HK308600500** | Price |
| 6 | 5MT | .120 | 6.300 | 11.77 | 5.240 | 2.560 | 9.307 | 3000 | 33.7 lbs | **HK308600600** | Price |
| 5* | 4MT | .120 | 4.920 | 9.63 | 4.570 | 2.200 | 7.320 | 3200 | 24.5 lbs | **HK308650500** | Price |

## Morse Taper Adapters for Bison Quick Clamping Scroll Chucks

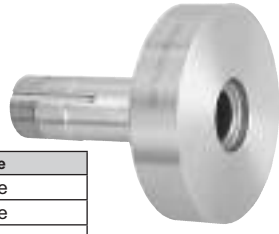
- T.I.R. for 4" .001" for 5" & 6" .0006"
- Diam. 5" & 6" with adjustable body





| Mount | Chuck Dia. D (in.) | L (in.) | H (in.) | Draw Bar Threads | 3-Jaw F (in.) | 6- Jaw E (in.) | 3-Jaw d min-max (in.) | 6-Jaw d min-max (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 MT | 4 | 5.51 | 1.57 | 3/8-16 | .67 | .98 | .0787-1.22 | .0591-1.22 | **HK30913403** | Price |
| 3 MT | 5 | 5.60 | 1.89 | 3/8-16 | .79 | 1.42 | .0984-1.46 | .0787-1.46 | **HK30913503** | Price |
| 4 MT | 4 | 6.41 | 1.57 | 1/2-13 | .67 | .98 | .0787-1.22 | .0591-1.22 | **HK30913404** | Price |
| 4 MT | 5 | 6.50 | 1.89 | 1/2-13 | .79 | 1.42 | .0984-1.46 | .0787-1.46 | **HK30913504** | Price |
| 5 MT | 6 | 7.68 | 2.05 | 5/8-11 | 1.30 | 1.42 | .0984-2.00 | .1181-2.00 | **HK30913605** | Price |

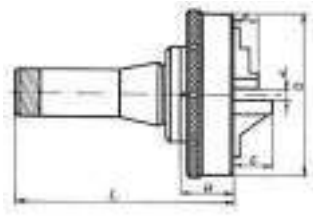
## 5C Soft Blank Adapters



| Total Length (in.) | Flange Dia. (in.) | Flange Thickness (in.) | Hole Dia. (in.) | Order No. | Price |
|---|---|---|---|---|---|
| 4.41 | 4 | 1.00 | .866 | **HK30909304** | Price |
| 4.41 | 5 | 1.00 | .866 | **HK30909305** | Price |
| 4.41 | 6 | 1.22 | .866 | **HK30909306** | Price |

## 5C Adapter for 3 & 6-Jaw Quick Clamping Chucks

- T.I.R. 3" & 4" 0.001"
- 5" & 6" 0.0006"
- Adapters & Chucks Sold Separately
- Diam. 5" & 6" with adjustable body Thru-Hole Diam. .866"



| Chuck Diam. D (in.) | L (in.) | H (in.) | 3-Jaw F (in.) | 6-Jaw E (in.) | 3-Jaw d min-max (in.) | 6-Jaw d min-max (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|
| 5 | 5.74 | 1.89 | .79 | 1.42 | .0984-1.46 | .0787-1.46 | **HK30910605** | Price |
| 6 | 5.82 | 2.05 | 1.30 | 1.42 | .0984-2.00 | .1181-2.00 | **HK30910606** | Price |

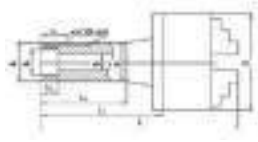
## 5C Precision Chucks

### 3 & 4 Jaw

- 5C Precision chucks eliminate the problem of having to tear down a collet set-up
- Easily switch to a 3 or 4 jaw chuck when collets aren't applicable
- Works with any 5C tooling
- Semi-steel

**Supplied With:**

- 2 Sets of hard jaws (3-Jaw chucks)
- 1 Set reversible jaws (4-Jaw chucks)
- T-wrench





| Chuck Style - Four Jaw Independent Chucks | | | | |
|---|---|---|---|---|
| Chuck Size (in.) | D3 (in.) | Weight | Order No. | Price |
| 3 | .765 | 6 lbs | **HK155C034** | Price |
| 4 | .765 | 12 lbs | **HK155C044** | Price |

| Chuck Style - Three Jaw Scroll Chucks | | | | |
|---|---|---|---|---|
| Chuck Size (in.) | D3 (in.) | Weight | Order No. | Price |
| 3 | .765 | 7 lbs | **HK155C033** | Price |
| 4 | .765 | 11 lbs | **HK155C043** | Price |

## 5C Fixture Adapters for SET-TRU Chucks

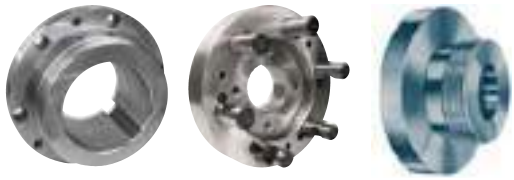
- Back plates and SET-TRU chucks sold separately



| Chuck Dia. D (in.) | L (in.) | H (in.) | E (in.) | M min-max (in.) | N max (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|
| 4 | 7.29 | 2.68 | .67 | .12-1.30 | 3.66 | **HK30912304** | Price |
| 5 | 7.12 | 2.362 | 1.58 | .12-1.97 | 4.92 | **HK30912305** | Price |
| 6 | 7.95 | 2.677 | 1.71 | .12-2.52 | 6.30 | **HK30912306** | Price |

## Steel Adapter Plates for Adjustable Chucks

- Fully Finished Precision Steel Adapters, No Machining Required
- Generic USA machined to fit Bison
- Bison adapters are interchangeable
- BTC adapters for BTC, Buck and PBA Chucks
- BPA adapters for PBA Setrite and Atlas easy set chucks



| Mount - 1-1/2-8 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 4 | Bison | **HK30876042** | Price |
| 5 | Bison | **HK30876052** | Price |
| 5 | PBA | **HF500505041** | Price |
| 6 | Bison | **HK30876062** | Price |
| 6 | BTC | **HK16TH950** | Price |
| 6 | PBA | **HF500605041** | Price |
| 8 | Bison | **HK30876082** | Price |
| 8 | PBA | **HF500805041** | Price |

| Mount - 1-3/4-8 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 5 | PBA | **HF500505042** | Price |
| 6 | PBA | **HF500605042** | Price |
| 8 | PBA | **HF500805042** | Price |

| Mount - 2-1/4-8 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 5 | Bison | **HK30876056** | Price |
| 5 | PBA | **HF500505043** | Price |
| 6 | Bison | **HK30876066** | Price |
| 6 | BTC | **HK16TH955** | Price |
| 6 | PBA | **HF500605043** | Price |
| 8 | Bison | **HK30876083** | Price |
| 8 | PBA | **HF500805043** | Price |
| 8-1/4 | BTC | **HK16TH985** | Price |
| 10 | BTC | **HK16TH994** | Price |

| Mount - 2-3/16-10 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 5 | Bison | **HK30876054** | Price |
| 5 | BTC | **HK16HS120** | Price |
| 5 | Generic USA | **HK16MH055** | Price |
| 5 | PBA | **HF500505045** | Price |
| 6 | Bison | **HK30876064** | Price |
| 6 | BTC | **HK16HS276** | Price |
| 6 | Generic USA | **HK16MH065** | Price |
| 6 | PBA | **HF500605045** | Price |

| Mount - 2-3/8-6 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 6 | BTC | **HK16TH958** | Price |
| 6 | PBA | **HF500605046** | Price |
| 8 | Bison | **HK30876084** | Price |
| 8 | PBA | **HF500805046** | Price |
| 8-1/4 | BTC | **HK16TH986** | Price |
| 10 | BTC | **HK16TH995** | Price |
| 12 | BTC | **HK16TH997** | Price |

| Mount - 4° Taper | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 5 | BTC | **HK16HS790** | Price |
| 5 | Generic USA | **HK16MH054** | Price |
| 5 | PBA | **HF500505044** | Price |
| 6 | BTC | **HK16HS357** | Price |
| 6 | Generic USA | **HK16MH064** | Price |
| 6 | PBA | **HF500605044** | Price |

| Mount - A-11 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 12 | Bison | **HK30874129** | Price |
| 12 | BTC | **HK16AS317** | Price |
| 12 | SCA | **HK1612GSA11** | Price |
| 15 | BTC | **HK16AS349** | Price |
| 15 | PBA | **HF501505013** | Price |
| 15 - 18 | SCA | **HK161518GSA11** | Price |
| 16 | Bison | **HK30874169** | Price |
| 18 | PBA | **HF501805013** | Price |
| 20 | Bison | **HK30874209** | Price |
| 21 | BTC | **HK15AS350** | Price |
| 24 | PBA | **HF502405013** | Price |
| 25 | Bison | **HK30874259** | Price |

| Mount - A-15 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 15 | BTC | **HK16AS350** | Price |
| 15 | SCA | **HK161518GSA15** | Price |

| Mount - A-15 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 20 | Bison | **HK30874215** | Price |
| 21 | SCA | **HK162124GSA15** | Price |
| 24 | PBA | **HF502405014** | Price |
| 25 | Bison | **HK30874260** | Price |

| Mount - A-20 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 21 - 24 | SCA | **HK162124GSA20** | Price |
| 25 | Bison | **HK30874265** | Price |

| Mount - A2-11 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 12 | TMX | **HK313874129P** | Price |
| 16 | TMX | **HK313874169P** | Price |
| 20 | TMX | **HK313874209P** | Price |
| 25 | TMX | **HK313874259P** | Price |

| Mount - A2-15 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 20 | TMX | **HK313874215P** | Price |
| 25 | TMX | **HK313874260P** | Price |

| Mount - A2-4 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 5 | TMX | **HK313874054P** | Price |

| Mount - A2-5 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 10 | TMX | **HK313874105P** | Price |
| 5 | TMX | **HK313874055P** | Price |
| 6 | TMX | **HK313874065P** | Price |
| 8 | TMX | **HK313874085P** | Price |

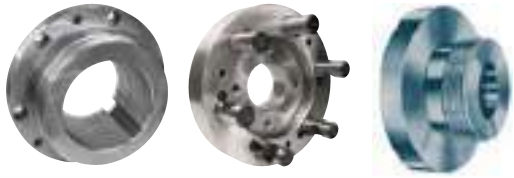
| Mount - A2-6 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 10 | TMX | **HK313874106P** | Price |
| 12 | TMX | **HK313874126P** | Price |
| 16 | TMX | **HK313874166P** | Price |
| 5 | TMX | **HK313874056P** | Price |
| 6 | TMX | **HK313874066P** | Price |
| 8 | TMX | **HK313874086P** | Price |

| Mount - A2-8 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 10 | TMX | **HK313874108P** | Price |
| 12 | TMX | **HK313874128P** | Price |
| 16 | TMX | **HK313874168P** | Price |
| 20 | TMX | **HK313874208P** | Price |
| 25 | TMX | **HK313874258P** | Price |

| Mount - A-4 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 5 | Bison | **HK30874054** | Price |
| 6 | BTC | **HK16AS301** | Price |
| 6 | PBA | **HF500605009** | Price |
| 6 | SCA | **HK166GSA4** | Price |

| Mount - A-5 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 5 | Bison | **HK30874055** | Price |
| 6 | Bison | **HK30874065** | Price |
| 6 | BTC | **HK16AS302** | Price |
| 6 | PBA | **HF500605010** | Price |
| 6 | SCA | **HK166GSA5** | Price |
| 8 | Bison | **HK30874085** | Price |
| 8 | PBA | **HF500805010** | Price |
| 8 | SCA | **HK168GSA5** | Price |
| 8-1/4 | BTC | **HK16AS307** | Price |
| 10 | Bison | **HK30874105** | Price |
| 10 | BTC | **HK16AS311** | Price |
| 10 | PBA | **HF501005010** | Price |
| 10 | SCA | **HK1610GSA5** | Price |

## Steel Adapter Plates for Adjustable Chucks (cont.)



| Mount - A-6 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 5 | Bison | **HK30874056** | Price |
| 6 | Bison | **HK30874066** | Price |
| 6 | BTC | **HK16AS303** | Price |
| 8 | Bison | **HK30874086** | Price |
| 8 | PBA | **HF500805011** | Price |
| 8 | SCA | **HK168GSA6** | Price |
| 8-1/4 | BTC | **HK16AS308** | Price |
| 10 | Bison | **HK30874106** | Price |
| 10 | BTC | **HK16AS312** | Price |
| 10 | PBA | **HF501005011** | Price |
| 10 | SCA | **HK1610GSA6** | Price |
| 12 | Bison | **HK30874126** | Price |
| 12 | BTC | **HK16AS315** | Price |
| 12 | PBA | **HF501205011** | Price |
| 12 | SCA | **HK1612GSA6** | Price |
| 15 | BTC | **HK16AS343** | Price |
| 15 - 18 | SCA | **HK161518GSA6** | Price |
| 16 | Bison | **HK30874166** | Price |

| Mount - A-8 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 6 | BTC | **HK16AS336** | Price |
| 8-1/4 | BTC | **HK16AS309** | Price |
| 10 | Bison | **HK30874108** | Price |
| 10 | BTC | **HK16AS313** | Price |
| 10 | PBA | **HF501005012** | Price |
| 10 | SCA | **HK1610GSA8** | Price |
| 12 | Bison | **HK30874128** | Price |
| 12 | BTC | **HK16AS316** | Price |
| 12 | PBA | **HF501205012** | Price |
| 12 | SCA | **HK1612GSA8** | Price |
| 15 | BTC | **HK16AS344** | Price |
| 15 | PBA | **HF501505012** | Price |
| 15 - 18 | SCA | **HK161518GSA8** | Price |
| 16 | Bison | **HK30874168** | Price |
| 18 | PBA | **HF501805012** | Price |
| 20 | Bison | **HK30874208** | Price |
| 25 | Bison | **HK30874258** | Price |

| Mount - Blank | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 5 | PBA | **HF500505040** | Price |
| 6 | PBA | **HF500605040** | Price |
| 8 | PBA | **HF500805040** | Price |
| 10 | PBA | **HF501005040** | Price |
| 12 | PBA | **HF501205040** | Price |

| Mount - D-11 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 12 | Bison | **HK30875129** | Price |
| 12 | BTC | **HK16CD273** | Price |
| 12 | PBA | **HF501205025** | Price |
| 12 | SCA | **HK1612GSD11** | Price |
| 15 | BTC | **HK16CD266** | Price |
| 15 | PBA | **HF501505025** | Price |
| 15 - 18 | SCA | **HK161518GSD11** | Price |
| 16 | Bison | **HK30875169** | Price |
| 18 | PBA | **HF501805025** | Price |
| 20 | Bison | **HK30875209** | Price |
| 21 | BTC | **HK16CD272** | Price |
| 21 - 24 | SCA | **HK162124GSD11** | Price |
| 24 | PBA | **HF502405025** | Price |
| 25 | Bison | **HK30875259** | Price |

| Mount - D1-11 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 12 | TMX | **HK313875129P** | Price |
| 16 | TMX | **HK313875169P** | Price |
| 20 | TMX | **HK313875209P** | Price |
| 25 | TMX | **HK313875259P** | Price |

| Mount - D1-15 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 20 | TMX | **HK313875215P** | Price |

| Mount - D1-3 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 5 | TMX | **HK313875053P** | Price |
| 6 | TMX | **HK313875063P** | Price |
| 8 | TMX | **HK313875083P** | Price |

| Mount - D1-4 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 10 | TMX | **HK313875104P** | Price |
| 5 | TMX | **HK313875054P** | Price |
| 6 | TMX | **HK313875064P** | Price |
| 8 | TMX | **HK313875084P** | Price |

| Mount - D-15 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 20 | Bison | **HK30875215** | Price |
| 21 | BTC | **HK16CD274** | Price |
| 21 - 24 | SCA | **HK162124GSD15** | Price |

| Mount - D1-5 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 10 | TMX | **HK313875105P** | Price |
| 5 | TMX | **HK313875055P** | Price |
| 6 | TMX | **HK313875065P** | Price |
| 8 | TMX | **HK313875085P** | Price |

| Mount - D1-6 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 10 | TMX | **HK313875106P** | Price |
| 12 | TMX | **HK313875126P** | Price |
| 16 | TMX | **HK313875166P** | Price |
| 5 | TMX | **HK313875056P** | Price |
| 6 | TMX | **HK313875066P** | Price |
| 8 | TMX | **HK313875086P** | Price |

| Mount - D1-8 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 10 | TMX | **HK313875108P** | Price |
| 12 | TMX | **HK313875128P** | Price |
| 16 | TMX | **HK313875168P** | Price |
| 20 | TMX | **HK313875208P** | Price |
| 25 | TMX | **HK313875258P** | Price |
| 5 | TMX | **HK313875058P** | Price |
| 6 | TMX | **HK313875068P** | Price |
| 8 | TMX | **HK313875088P** | Price |

| Mount - D-3 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 4 | Bison | **HK30875043** | Price |
| 5 | Bison | **HK30875053** | Price |
| 6 | Bison | **HK30875063** | Price |
| 6 | BTC | **HK16CD203** | Price |
| 6 | PBA | **HF500605020** | Price |
| 8 | Bison | **HK30875083** | Price |
| 8 | PBA | **HF500805020** | Price |
| 8-1/4 | BTC | **HK16CD220** | Price |

| Mount - D-4 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 4 | Bison | **HK30875044** | Price |
| 5 | Bison | **HK30875054** | Price |
| 6 | Bison | **HK30875064** | Price |
| 6 | BTC | **HK16CD201** | Price |
| 6 | PBA | **HF500605021** | Price |
| 8 | Bison | **HK30875084** | Price |
| 8 | PBA | **HF500805021** | Price |
| 8 | SCA | **HK168GSD4** | Price |
| 8-1/4 | BTC | **HK16CD204** | Price |
| 10 | Bison | **HK30875104** | Price |
| 10 | BTC | **HK16CD219** | Price |
| 10 | PBA | **HF501005021** | Price |
| 10 | SCA | **HK1610GSD4** | Price |

## Steel Adapter Plates for Adjustable Chucks (cont.)



| Mount - D-5 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 5 | Bison | **HK30875055** | Price |
| 6 | Bison | **HK30875065** | Price |
| 6 | BTC | **HK16CD202** | Price |
| 6 | PBA | **HF500605022** | Price |
| 8 | Bison | **HK30875085** | Price |
| 8 | PBA | **HF500805022** | Price |
| 8 | SCA | **HK168GSD5** | Price |
| 8-1/4 | BTC | **HK16CD208** | Price |
| 10 | Bison | **HK30875105** | Price |
| 10 | BTC | **HK16CD210** | Price |
| 10 | PBA | **HF501005022** | Price |
| 10 | SCA | **HK1610GSD5** | Price |
| 12 | BTC | **HK16CD213** | Price |
| 12 | SCA | **HK1612GSD5** | Price |

| Mount - D-6 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 5 | Bison | **HK30875056** | Price |
| 6 | Bison | **HK30875066** | Price |
| 6 | BTC | **HK16CD206** | Price |
| 8 | Bison | **HK30875086** | Price |
| 8 | PBA | **HF500805023** | Price |
| 8 | SCA | **HK168GSD6** | Price |
| 8-1/4 | BTC | **HK16CD209** | Price |
| 10 | Bison | **HK30875106** | Price |
| 10 | BTC | **HK16CD211** | Price |
| 10 | PBA | **HF501005023** | Price |
| 10 | SCA | **HK1610GSD6** | Price |
| 12 | Bison | **HK30875126** | Price |
| 12 | BTC | **HK16CD214** | Price |
| 12 | PBA | **HF501205023** | Price |
| 15 | BTC | **HK16CD238** | Price |
| 15 | PBA | **HF501505023** | Price |
| 16 | Bison | **HK30875166** | Price |

| Mount - D-8 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 5 | Bison | **HK30875058** | Price |
| 6 | BTC | **HK16CD247** | Price |
| 8 | Bison | **HK30875088** | Price |
| 8-1/4 | BTC | **HK16CD207** | Price |
| 10 | Bison | **HK30875108** | Price |
| 10 | BTC | **HK16CD212** | Price |
| 10 | PBA | **HF501005024** | Price |
| 10 | SCA | **HK1610GSD8** | Price |
| 12 | Bison | **HK30875128** | Price |
| 12 | BTC | **HK16CD215** | Price |
| 12 | PBA | **HF501205024** | Price |
| 15 | BTC | **HK16CD267** | Price |
| 15 | PBA | **HF501505024** | Price |
| 15 - 18 | SCA | **HK161518GSD8** | Price |
| 16 | Bison | **HK30875168** | Price |
| 20 | Bison | **HK30875208** | Price |
| 21 | BTC | **HK16CD271** | Price |
| 21 - 24 | SCA | **HK162124GSD8** | Price |
| 24 | PBA | **HF502405024** | Price |
| 25 | Bison | **HK30875258** | Price |

| Mount - DIN11 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 16 | Bison | **HK30920169** | Price |
| 20 | Bison | **HK30920209** | Price |
| 25 | Bison | **HK30920259** | Price |

| Mount - DIN6 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 6 | Bison | **HK30920066** | Price |
| 8 | Bison | **HK30920086** | Price |
| 10 | Bison | **HK30920106** | Price |

| Mount - DIN8 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 12 | Bison | **HK30920128** | Price |
| 16 | Bison | **HK30920168** | Price |

| Mount - L0 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 6 | Bison | **HK308799062** | Price |
| 6 | BTC | **HK16LT101** | Price |

| Mount - L0 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 6 | PBA | **HF500605032** | Price |
| 8 | PBA | **HF500805032** | Price |
| 8-1/4 | BTC | **HK16LT109** | Price |
| 10 | Bison | **HK308799102** | Price |
| 10 | BTC | **HK16LT112** | Price |
| 10 | PBA | **HF501005032** | Price |
| 12 | Bison | **HK308799122** | Price |
| 12 | BTC | **HK16LT115** | Price |
| 12 | PBA | **HF501205032** | Price |
| 12 | SCA | **HK1612GSL0** | Price |

| Mount - L00 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 5 | Bison | **HK308799051** | Price |
| 6 | Bison | **HK308799061** | Price |
| 6 | BTC | **HK16LT100** | Price |
| 6 | PBA | **HF500605031** | Price |
| 8 | Bison | **HK308799081** | Price |
| 8 | PBA | **HF500805031** | Price |
| 8-1/4 | BTC | **HK16LT108** | Price |
| 10 | Bison | **HK308799101** | Price |
| 10 | BTC | **HK16LT111** | Price |
| 10 | PBA | **HF501005031** | Price |

| Mount - L1 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 8 | Bison | **HK308799083** | Price |
| 8 | PBA | **HF500805033** | Price |
| 8-1/4 | BTC | **HK16LT110** | Price |
| 10 | Bison | **HK308799103** | Price |
| 10 | BTC | **HK16LT113** | Price |
| 10 | PBA | **HF501005033** | Price |
| 10 | SCA | **HK1610GSL1** | Price |
| 12 | Bison | **HK308799123** | Price |
| 12 | BTC | **HK16LT116** | Price |
| 12 | PBA | **HF501205033** | Price |
| 12 | SCA | **HK1612GSL1** | Price |
| 15 | BTC | **HK16LT176** | Price |
| 15 | PBA | **HF501505033** | Price |
| 15 - 18 | SCA | **HK161518GSL1** | Price |
| 16 | Bison | **HK308799163** | Price |
| 18 | PBA | **HF501805033** | Price |
| 24 | PBA | **HF502405033** | Price |

| Mount - L2 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 10 | BTC | **HK16LT114** | Price |
| 10 | PBA | **HF501005034** | Price |
| 10 | SCA | **HK1610GSL2** | Price |
| 12 | PBA | **HF501205034** | Price |
| 12 | SCA | **HK1612GSL2** | Price |
| 15 | BTC | **HK16LT177** | Price |
| 15 | PBA | **HF501505034** | Price |
| 15 - 18 | SCA | **HK161518GSL2** | Price |
| 16 | Bison | **HK308799164** | Price |
| 18 | PBA | **HF501805034** | Price |
| 20 | Bison | **HK308799264** | Price |
| 21 - 24 | SCA | **HK162124GSL2** | Price |
| 24 | PBA | **HF502405034** | Price |

| Mount - L3 | | | |
|---|---|---|---|
| Chuck Size (in.) | Brand Name | Order No. | Price |
| 15 | BTC | **HK16LT178** | Price |
| 15 | PBA | **HF501505035** | Price |
| 15 - 18 | SCA | **HK161518GSL3** | Price |
| 16 | Bison | **HK308799165** | Price |
| 18 | PBA | **HF501805035** | Price |
| 21 - 24 | SCA | **HK162124GSL3** | Price |
| 24 | PBA | **HF502405035** | Price |

# Adapter Plates for 3 & 4-Jaw Plain Back Scroll & Independent Chucks

- Generic USA Type D & A-1 standard without Thru-Hole



| To Fit Spindle - 1-1/2-8 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 6 | Generic USA | **HK160600THD** | Price |
| 8 | Generic USA | **HK160800150B** | Price |

| To Fit Spindle - 2-1/4-8 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 8 | Generic USA | **HK160800225B** | Price |
| 10 | Generic USA | **HK161000225B** | Price |

| To Fit Spindle - 2-3/16-10 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 5 | Generic USA | **HK16MH055B** | Price |
| 6 | Generic USA | **HK16MH065B** | Price |

| To Fit Spindle - 2-3/16-10 Hardinge | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 6 | Generic USA | **HK160600HT** | Price |

| To Fit Spindle - 4° Taper | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 5 | Generic USA | **HK16MH054B** | Price |
| 6 | Generic USA | **HK16MH064B** | Price |

| To Fit Spindle - 4° Taper Hardinge | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 6 | Generic USA | **HK1606004D** | Price |

| To Fit Spindle - A-11 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 12-1/2 | Generic USA | **HK16MA060** | Price |
| 15-3/4 | Generic USA | **HK16MA075** | Price |
| 18 | Generic USA | **HK16MA111** | Price |
| 20-1/2 | Generic USA | **HK16MA119** | Price |
| 25 | Generic USA | **HK16MA211** | Price |

| To Fit Spindle - A-15 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 15-3/4 | Generic USA | **HK16MA095** | Price |
| 18 | Generic USA | **HK16MA115** | Price |
| 20-1/2 | Generic USA | **HK16MA121** | Price |
| 25 | Generic USA | **HK16MA215** | Price |

| To Fit Spindle - A-20 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 20-1/2 | Generic USA | **HK16MA120** | Price |
| 25 | Generic USA | **HK16MA220** | Price |

| To Fit Spindle - A2-11 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 16 | TMX | **HK313873169P** | Price |
| 20 | TMX | **HK313873209P** | Price |

| To Fit Spindle - A2-15 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 20 | TMX | **HK313873215P** | Price |
| 25 | TMX | **HK313873260P** | Price |

| To Fit Spindle - A2-5 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 8 | TMX | **HK313873085P** | Price |

| To Fit Spindle - A2-6 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 10 | TMX | **HK313873106P** | Price |
| 12 | TMX | **HK313873126P** | Price |
| 16 | TMX | **HK313873166P** | Price |
| 8 | TMX | **HK313873086P** | Price |

| To Fit Spindle - A2-8 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 12 | TMX | **HK313873128P** | Price |
| 16 | TMX | **HK313873168P** | Price |
| 20 | TMX | **HK313873208P** | Price |

| To Fit Spindle - A-4 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 6 | Generic USA | **HK16MA005** | Price |

| To Fit Spindle - A-5 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 6 | Generic USA | **HK16MA010** | Price |
| 8-1/4 | Generic USA | **HK16MA025** | Price |
| 10-1/2 | Generic USA | **HK16MA039** | Price |

| To Fit Spindle - A-6 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 8-1/4 | Generic USA | **HK16MA035** | Price |
| 10-1/2 | Generic USA | **HK16MA040** | Price |
| 12-1/2 | Generic USA | **HK16MA050** | Price |
| 15-3/4 | Generic USA | **HK16MA069** | Price |

| To Fit Spindle - A-8 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 10-1/2 | Generic USA | **HK16MA045** | Price |
| 12-1/2 | Generic USA | **HK16MA055** | Price |
| 15-3/4 | Generic USA | **HK16MA070** | Price |
| 18 | Generic USA | **HK16MA108** | Price |
| 20-1/2 | Generic USA | **HK16MA118** | Price |
| 25 | Generic USA | **HK16MA208** | Price |

| To Fit Spindle - D-11 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 12 | Bison | **HK30878129F** | Price |
| 12-1/2 | Generic USA | **HK16MD060** | Price |
| 15-3/4 | Generic USA | **HK16MD075** | Price |
| 16 | Bison | **HK30878169F** | Price |
| 20 | Generic USA | **HK16MD085** | Price |
| 25 | Bison | **HK30878259F** | Price |
| 25 | Generic USA | **HK16MD095** | Price |

| To Fit Spindle - D1-11 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 12 | TMX | **HK313878129P** | Price |
| 16 | TMX | **HK313878169P** | Price |
| 20 | TMX | **HK313878209P** | Price |
| 25 | TMX | **HK313878259P** | Price |

| To Fit Spindle - D1-15 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 25 | TMX | **HK313878265P** | Price |

| To Fit Spindle - D1-3 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 6 | TMX | **HK313878063P** | Price |

| To Fit Spindle - D1-4 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 6 | TMX | **HK313878064P** | Price |
| 8 | TMX | **HK313878084P** | Price |
| 8 | TMX | **HK3138789084P** | Price |

## Adapter Plates for 3 & 4-Jaw Plain Back Scroll & Independent Chucks (cont.)



| To Fit Spindle - D-15 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 15-3/4 | Generic USA | **HK16MD079** | Price |
| 20 | Generic USA | **HK16MD089** | Price |
| 25 | Generic USA | **HK16MD099** | Price |
| 25 | Bison | **HK30878265F** | Price |

| To Fit Spindle - D1-5 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 10 | TMX | **HK313878105P** | Price |
| 6 | TMX | **HK313878065P** | Price |
| 8 | TMX | **HK313878085P** | Price |

| To Fit Spindle - D1-6 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 10 | TMX | **HK313878106P** | Price |
| 10 | TMX | **HK3138789106P** | Price |
| 12 | TMX | **HK313878126P** | Price |
| 16 | TMX | **HK313878166P** | Price |
| 6 | TMX | **HK313878066P** | Price |
| 8 | TMX | **HK313878086P** | Price |

| To Fit Spindle - D1-8 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 10 | TMX | **HK313878108P** | Price |
| 12 | TMX | **HK313878128P** | Price |
| 16 | TMX | **HK313878168P** | Price |
| 20 | TMX | **HK313878208P** | Price |
| 25 | TMX | **HK313878258P** | Price |

| To Fit Spindle - D-3 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 6 | Generic USA | **HK16MD003** | Price |
| 8 | Bison | **HK30878083F** | Price |
| 8-1/4 | Generic USA | **HK16MD015** | Price |
| 10-1/2 | Generic USA | **HK16MD300** | Price |

| To Fit Spindle - D-4 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 6 | Bison | **HK30878064F** | Price |
| 6 | Generic USA | **HK16MD005** | Price |
| 8 | Bison | **HK30878084F** | Price |
| 8-1/4 | Generic USA | **HK16MD020** | Price |
| 10-1/2 | Generic USA | **HK16MD400** | Price |

| To Fit Spindle - D-5 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 6 | Bison | **HK30878065F** | Price |
| 6 | Generic USA | **HK16MD010** | Price |
| 8 | Bison | **HK30878085F** | Price |
| 8-1/4 | Generic USA | **HK16MD025** | Price |
| 10 | Bison | **HK30878105F** | Price |
| 10-1/2 | Generic USA | **HK16MD035** | Price |
| 12-1/2 | Generic USA | **HK16MD049** | Price |

| To Fit Spindle - D-6 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 8 | Bison | **HK30878086F** | Price |
| 8-1/4 | Generic USA | **HK16MD030** | Price |
| 10 | Bison | **HK30878106F** | Price |
| 10-1/2 | Generic USA | **HK16MD040** | Price |
| 12 | Bison | **HK30878126F** | Price |

| To Fit Spindle - D-6 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 12-1/2 | Generic USA | **HK16MD050** | Price |
| 15-3/4 | Generic USA | **HK16MD065** | Price |
| 16 | Bison | **HK30878166F** | Price |

| To Fit Spindle - D-8 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 10 | Bison | **HK30878108F** | Price |
| 10-1/2 | Generic USA | **HK16MD045** | Price |
| 12 | Bison | **HK30878128F** | Price |
| 12-1/2 | Generic USA | **HK16MD055** | Price |
| 15-3/4 | Generic USA | **HK16MD070** | Price |
| 16 | Bison | **HK30878168F** | Price |
| 20 | Bison | **HK30878208F** | Price |
| 20 | Generic USA | **HK16MD080** | Price |
| 25 | Bison | **HK30878258F** | Price |
| 25 | Generic USA | **HK16MD090** | Price |

| To Fit Spindle - DIN11 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 12-1/2 | Generic USA | **HK1612DIN11** | Price |
| 15-3/4 | Generic USA | **HK1615DIN11** | Price |

| To Fit Spindle - DIN5 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 8-1/4 | Generic USA | **HK168DIN5** | Price |

| To Fit Spindle - DIN6 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 8-1/4 | Generic USA | **HK168DIN6** | Price |
| 10-1/2 | Generic USA | **HK1610DIN6** | Price |
| 12-1/2 | Generic USA | **HK1612DIN6** | Price |

| To Fit Spindle - DIN8 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 10-1/2 | Generic USA | **HK1610DIN8** | Price |
| 12-1/2 | Generic USA | **HK1612DIN8** | Price |
| 15-3/4 | Generic USA | **HK1615DIN8** | Price |

| To Fit Spindle - L0 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 10-1/2 | Generic USA | **HK16ML040** | Price |

| To Fit Spindle - L00 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 10-1/2 | Generic USA | **HK16ML035** | Price |

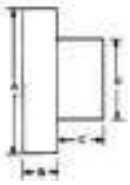
| To Fit Spindle - L1 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 8-1/4 | Generic USA | **HK16ML030** | Price |
| 12-1/2 | Generic USA | **HK16ML060** | Price |
| 15-3/4 | Generic USA | **HK16ML075** | Price |

| To Fit Spindle - L2 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 10-1/2 | Generic USA | **HK16ML050** | Price |
| 12-1/2 | Generic USA | **HK16ML065** | Price |
| 15-3/4 | Generic USA | **HK16ML080** | Price |
| 20 | Generic USA | **HK16ML090** | Price |
| 25 | Generic USA | **HK16ML100** | Price |

| To Fit Spindle - L3 | | | |
|---|---|---|---|
| Chuck Dia. (in.) | Brand Name | Order No. | Price |
| 20 | Generic USA | **HK16ML095** | Price |
| 25 | Generic USA | **HK16ML105** | Price |

## Machineable Cast Iron Adapter Plates for 3-Jaw & 4-Jaw Lathe Chucks

### Rough Casting Adapters





| Plate Dia. (A) (in.) | Plate Thk. (B) (in.) | Flange Depth (C) (in.) | Spindle Dia. (D) (in.) | Thru Hole | Order No. | Price |
|---|---|---|---|---|---|---|
| 5-3/8 | 7/8 | 2-1/4 | 3-3/8 | 5/8 | **HK30870105** | Price |
| 6-3/4 | 1 | 2-1/4 | 3-3/8 | 1 | **HK30870106** | Price |
| 8-1/4 | 1 | 2-1/2 | 3-3/4 | 1 | **HK30870108** | Price |
| 10-1/4 | 1-1/4 | 3-5/8 | 4-3/8 | 1-1/2 | **HK30870110** | Price |
| 12-3/4 | 1-1/4 | 4 | 6-1/2 | 2 | **HK30870112** | Price |
| 16-1/8 | 2-1/8 | 5-1/8 | 9 | 2-3/4 | **HK30870116** | Price |

## Machineable Cast Iron Adapter Plates for 3-Jaw & 4-Jaw Lathe Chucks

### Threaded Adapters

- Semi-finished for plain back lathe chucks

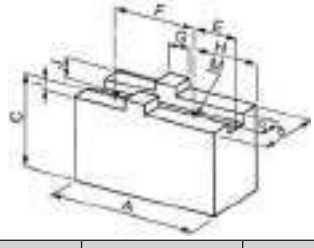


| Thd. Size (in.) | Plate Dia. (A) (in.) | Plate Thk. (B) (in.) | Flange Depth (C) (in.) | Spindle Dia. (D) (in.) | Order No. | Price |
|---|---|---|---|---|---|---|
| 1-10 | 4 | 5/8 | 3/4 | 2-5/8 | **HK30871041** | Price |
| 1-10 | 5 | 5/8 | 3/4 | 2-5/8 | **HK30871051** | Price |
| 1-1/2-8 | 4 | 5/8 | 3/4 | 2-5/8 | **HK30871042** | Price |
| 1-1/2-8 | 5 | 5/8 | 3/4 | 2-5/8 | **HK30871052** | Price |
| 1-1/2-8 | 6-1/2 | 11/16 | 21/32 | 3-5/32 | **HK30871062** | Price |
| 1-1/2-8 | 8 | 25/32 | 63/64 | 3-5/8 | **HK30871082** | Price |
| 2-1/4-8 | 6-1/2 | 11/16 | 21/32 | 3-5/32 | **HK30871063** | Price |
| 2-1/4-8 | 8 | 25/32 | 63/64 | 3-5/8 | **HK30871083** | Price |
| 2-1/4-8 | 10 | 29/32 | 1-3/32 | 4-1/8 | **HK30871103** | Price |
| 2-3/8-6 | 12-27/64 | 1-7/64 | 1-11/64 | 6-1/2 | **HK30871124** | Price |
| 2-3/8-6 | 8 | 25/32 | 63/64 | 3-5/8 | **HK30871084** | Price |
| 2-3/8-6 | 10 | 29/32 | 1-3/32 | 4-1/8 | **HK30871104** | Price |

## Soft Top Jaws for Scroll / Independent Chucks

- Sold as each
- Made in Poland

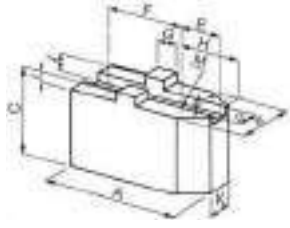




| Chuck Size (in.) | No. of Jaws | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | G (in.) | H (in.) | I (in.) | J (in.) | K (in.) | M (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 3 or 4 | 2.52 | .866 | 1.52 | .313 | 0.591 | 1-1/4 | .50 | 1 | .126 | .283 | – | 5/16 - 18 | **HK313884305P** | Price |
| 6 | 3 or 4 | 3.071 | 1 | 1.634 | .313 | 0.839 | 1-1/2 | .50 | 1.339 | .126 | .283 | .118 | 3/8 - 16 | **HK313884306P** | Price |
| 8 | 3 or 4 | 3.543 | 1.063 | 1.713 | .313 | 0.949 | 1-3/4 | .50 | 1.575 | .126 | .283 | .197 | 3/8 - 16 | **HK313884308P** | Price |
| 10 | 3 or 4 | 4.173 | 1.28 | 2.028 | .500 | 1.083 | 2-1/8 | .75 | 1.772 | .126 | .283 | .315 | 1/2 - 13 | **HK313884310P** | Price |
| 12 | 3 or 4 | 4.724 | 1.457 | 2.165 | .500 | 1.209 | 2-1/2 | .75 | 2.087 | .248 | .283 | .394 | 1/2 - 13 | **HK313884312P** | Price |
| 16 | 3 or 4 | 5.512 | 1.654 | 2.539 | .500 | 1.344 | 3 | .75 | 2.48 | .248 | .406 | .512 | 5/8 - 11 | **HK313884316P** | Price |
| 20 | 3 or 4 | 5.512 | 1.654 | 2.933 | .500 | 1.354 | 3 | .75 | 2.48 | .248 | .406 | .59 | 3/4 - 10 | **HK313884320P** | Price |
| 25 | 3 or 4 | 6.299 | 2.047 | 3.288 | .500 | 1.354 | 3 | .75 | 2.48 | .248 | .406 | .669 | 3/4 - 10 | **HK313884325P** | Price |
| 36-49 | N/A | 6.299 | 2.047 | 3.288 | .500 | 1.354 | 3 | .75 | 2.48 | .248 | .406 | - | 3/4-10 | **HK313884332P** | Price |

## Soft Top Jaws for Scroll Chucks

- Sold as each
- Soft Top Jaws for 6-Jaw Chucks
- Made in Poland





| Chuck Size (in.) | No. of Jaws | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | G (in.) | H (in.) | I (in.) | J (in.) | K (in.) | M (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 6 | 3.071 | 1 | 1.634 | .313 | .839 | 1-1/2 | .50 | 1.339 | .126 | .283 | .118 | 3/8 - 16 | **HK313884606P** | Price |
| 8 | 6 | 3.543 | 1.063 | 1.713 | .313 | .949 | 1-3/4 | .50 | 1.575 | .126 | .283 | .197 | 3/8 - 16 | **HK313884608P** | Price |
| 10 | 6 | 4.173 | 1.28 | 2.028 | .500 | 1.083 | 2-1/8 | .75 | 1.772 | .126 | .283 | .315 | 1/2 - 13 | **HK313884610P** | Price |
| 12 | 6 | 4.724 | 1.457 | 2.165 | .500 | 1.209 | 2-1/2 | .75 | 2.087 | .248 | .283 | .394 | 1/2 - 13 | **HK313884612P** | Price |
| 16 | 6 | 5.512 | 1.654 | 2.539 | .500 | 1.344 | 3 | .75 | 2.48 | .248 | .406 | .512 | 5/8 - 11 | **HK313884616P** | Price |
| 20 | 6 | 5.512 | 1.654 | 2.933 | .500 | 1.354 | 3 | .75 | 2.48 | .248 | .406 | .59 | 3/4 - 10 | **HK313884620P** | Price |
| 25 | 6 | 6.299 | 2.047 | 3.288 | .500 | 1.354 | 3 | .75 | 2.48 | .248 | .406 | .669 | 3/4 - 10 | **HK313884625P** | Price |

## Hard Top Jaws for Scroll Chucks

New!

- American Standard Tongue and Groove Jaws
- Jaws are made of high quality alloy steel then hardened and ground
- Sold as Set Only
- Hardened to 50 HRc
- Made In Europe





**No. of Jaws - 3**

| Chuck Size (in.) | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | G (in.) | H (in.) | J (in.) | K (in.) | M (in.) | N (in.) | O (in.) | P (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 2.205 | .866 | 1.516 | .313 | 0.157 | 0.126 | .50 | 57/64 | .350 | .59 | 5/8 | .315 | .57 | 1.38 | **HK313883305P** | Price |
| 6 | 2.638 | .984 | 1.634 | .313 | 0.157 | 0.126 | .50 | 1-1/8 | .430 | .71 | 3/4 | .335 | .71 | 1.63 | **HK313883306P** | Price |
| 8 | 3.174 | 1.063 | 1.713 | .313 | 0.157 | 0.126 | .50 | 1-3/8 | .430 | .71 | 7/8 | .374 | .85 | 2.01 | **HK313883308P** | Price |
| 10 | 3.74 | 1.28 | 2.023 | .500 | 0.157 | 0.126 | .75 | 1-9/16 | .550 | .78 | 1-1/16 | .472 | .96 | 2.32 | **HK313883310P** | Price |
| 12 | 4.331 | 1.457 | 2.165 | .500 | 0.157 | 0.126 | .75 | 1-7/8 | .550 | .78 | 1-1/4 | .512 | 1.04 | 2.68 | **HK313883312P** | Price |
| 16 | 5 | 1.654 | 2.539 | .500 | 0.157 | 0.248 | .75 | 2-1/4 | .710 | 1 | 1-1/2 | .532 | 1.06 | 3.01 | **HK313883316P** | Price |
| 20 | 5 | 1.654 | 2.933 | .500 | 0.157 | 0.248 | .75 | 2-1/4 | .870 | 1.3 | 1-1/2 | .689 | 1.97 | 3.46 | **HK313883320P** | Price |
| 25 | 5 | 2.047 | 3.228 | .500 | 0.157 | 0.248 | .75 | 2-1/4 | .870 | 1.3 | 1-1/2 | .827 | 2.01 | 3.5 | **HK313883325P** | Price |

**No. of Jaws - 4**

| Chuck Size (in.) | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | G (in.) | H (in.) | J (in.) | K (in.) | M (in.) | N (in.) | O (in.) | P (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 2.205 | .866 | 1.516 | .313 | 0.157 | 0.126 | .50 | 57/64 | .350 | .59 | 5/8 | .315 | .57 | 1.38 | **HK313883405P** | Price |
| 6 | 2.638 | .984 | 1.634 | .313 | 0.157 | 0.126 | .50 | 1-1/8 | .430 | .71 | 3/4 | .335 | .71 | 1.63 | **HK313883406P** | Price |
| 8 | 3.174 | 1.063 | 1.713 | .313 | 0.157 | 0.126 | .50 | 1-3/8 | .430 | .71 | 7/8 | .374 | .85 | 2.01 | **HK313883408P** | Price |
| 10 | 3.74 | 1.28 | 2.023 | .500 | 0.157 | 0.126 | .75 | 1-9/16 | .550 | .78 | 1-1/16 | .472 | .96 | 2.32 | **HK313883410P** | Price |
| 12 | 4.331 | 1.457 | 2.165 | .500 | 0.157 | 0.126 | .75 | 1-7/8 | .550 | .78 | 1-1/4 | .512 | 1.04 | 2.68 | **HK313883412P** | Price |
| 16 | 5 | 1.654 | 2.539 | .500 | 0.157 | 0.248 | .75 | 2-1/4 | .710 | 1 | 1-1/2 | .532 | 1.06 | 3.01 | **HK313883416P** | Price |
| 20 | 5 | 1.654 | 2.933 | .500 | 0.157 | 0.248 | .75 | 2-1/4 | .870 | 1.3 | 1-1/2 | .689 | 1.97 | 3.46 | **HK313883420P** | Price |
| 25 | 5 | 2.047 | 3.228 | .500 | 0.157 | 0.248 | .75 | 2-1/4 | .870 | 1.3 | 1-1/2 | .827 | 2.01 | 3.5 | **HK313883425P** | Price |

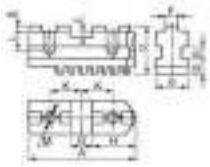
**No. of Jaws - 6**

| Chuck Size (in.) | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | G (in.) | H (in.) | J (in.) | K (in.) | M (in.) | N (in.) | O (in.) | P (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 2.205 | .866 | 1.516 | .313 | 0.157 | 0.126 | .50 | 57/64 | .350 | .59 | 5/8 | .315 | .57 | 1.38 | **HK313883605P** | Price |
| 6 | 2.638 | .984 | 1.634 | .313 | 0.157 | 0.126 | .50 | 1-1/8 | .430 | .71 | 3/4 | .335 | .71 | 1.63 | **HK313883606P** | Price |
| 8 | 3.174 | 1.063 | 1.713 | .313 | 0.157 | 0.126 | .50 | 1-3/8 | .430 | .71 | 7/8 | .374 | .85 | 2.01 | **HK313883608P** | Price |
| 10 | 3.74 | 1.28 | 2.023 | .500 | 0.157 | 0.126 | .75 | 1-9/16 | .550 | .78 | 1-1/16 | .472 | .96 | 2.32 | **HK313883610P** | Price |
| 12 | 4.331 | 1.457 | 2.165 | .500 | 0.157 | 0.126 | .75 | 1-7/8 | .550 | .78 | 1-1/4 | .512 | 1.04 | 2.68 | **HK313883612P** | Price |
| 16 | 5 | 1.654 | 2.539 | .500 | 0.157 | 0.248 | .75 | 2-1/4 | .710 | 1 | 1-1/2 | .532 | 1.06 | 3.01 | **HK313883616P** | Price |
| 20 | 5 | 1.654 | 2.933 | .500 | 0.157 | 0.248 | .75 | 2-1/4 | .870 | 1.3 | 1-1/2 | .689 | 1.97 | 3.46 | **HK313883620P** | Price |
| 25 | 5 | 2.047 | 3.228 | .500 | 0.157 | 0.248 | .75 | 2-1/4 | .870 | 1.3 | 1-1/2 | .827 | 2.01 | 3.5 | **HK313883625P** | Price |

## Hard Master Jaws for Scroll Chucks

New!

- American Standard Tongue & Groove Jaws
- Hardened to 50 HRc
- Sold in Sets Only
- Made in Poland







**No. of Jaws - 2**

| Chuck Size (in.) | A (in.) | B (in.) | D (in.) | E (in.) | F (in.) | G (in.) | H (in.) | J (in.) | K (in.) | L (in.) | M (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 2.559 | 0.787 | .315 | .315 | 5/16 | .50 | 1-1/8 | .158 | 3/4 | .551 | 3/8 - 16 | **HK313885206P** | Price |
| 8 | 3.110 | 0.984 | .354 | .394 | 5/16 | .50 | 1-3/8 | .158 | 7/8 | .551 | 3/8 - 16 | **HK313885208P** | Price |
| 10 | 3.622 | 1.102 | .433 | .472 | 1/2 | .75 | 1-9/16 | .158 | 1-1/16 | .630 | 1/2 - 13 | **HK313885210P** | Price |
| 12 | 4.331 | 1.26 | .500 | .472 | 1/2 | .75 | 1-7/8 | .158 | 1-1/4 | .630 | 1/2 - 13 | **HK313885212P** | Price |
| 16 | 5.118 | 1.417 | .591 | .551 | 1/2 | .75 | 2-1/4 | .284 | 1-1/2 | .866 | 5/8 - 11 | **HK313885216P** | Price |

**No. of Jaws - 3**

| Chuck Size (in.) | A (in.) | B (in.) | D (in.) | E (in.) | F (in.) | G (in.) | H (in.) | J (in.) | K (in.) | L (in.) | M (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 2.126 | 0.787 | .315 | .315 | 5/16 | .50 | 57/64 | .158 | 5/8 | .472 | 5/16 - 18 | **HK313885305P** | Price |
| 6 | 2.559 | 0.787 | .315 | .315 | 5/16 | .50 | 1-1/8 | .158 | 3/4 | .551 | 3/8 - 16 | **HK313885306P** | Price |
| 8 | 3.110 | 0.984 | .354 | .394 | 5/16 | .50 | 1-3/8 | .158 | 7/8 | .551 | 3/8 - 16 | **HK313885308P** | Price |
| 10 | 3.622 | 1.102 | .433 | .472 | 1/2 | .75 | 1-9/16 | .158 | 1-1/16 | .630 | 1/2 - 13 | **HK313885310P** | Price |
| 12 | 4.331 | 1.26 | .500 | .472 | 1/2 | .75 | 1-7/8 | .158 | 1-1/4 | .630 | 1/2 - 13 | **HK313885312P** | Price |
| 16 | 5.118 | 1.417 | .591 | .551 | 1/2 | .75 | 2-1/4 | .284 | 1-1/2 | .866 | 5/8 - 11 | **HK313885316P** | Price |
| 20 | 6.535 | 1.575 | .630 | .551 | 1/2 | .75 | 2-1/4 | .284 | 1-1/2 | 1.26 | 3/4 - 10 | **HK313885320P** | Price |
| 25 | 8.268 | 1.968 | .630 | .551 | 1/2 | .75 | 2-1/4 | .284 | 1-1/2 | 1.26 | 3/4 - 10 | **HK313885325P** | Price |

**No. of Jaws - 4**

| Chuck Size (in.) | A (in.) | B (in.) | D (in.) | E (in.) | F (in.) | G (in.) | H (in.) | J (in.) | K (in.) | L (in.) | M (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 2.126 | 0.787 | .315 | .315 | 5/16 | .50 | 57/64 | .158 | 5/8 | .472 | 5/16 - 18 | **HK313885405P** | Price |
| 6 | 2.559 | 0.787 | .315 | .315 | 5/16 | .50 | 1-1/8 | .158 | 3/4 | .551 | 3/8 - 16 | **HK313885406P** | Price |
| 8 | 3.110 | 0.984 | .354 | .394 | 5/16 | .50 | 1-3/8 | .158 | 7/8 | .551 | 3/8 - 16 | **HK313885408P** | Price |
| 10 | 3.622 | 1.102 | .433 | .472 | 1/2 | .75 | 1-9/16 | .158 | 1-1/16 | .630 | 1/2 - 13 | **HK313885410P** | Price |
| 12 | 4.331 | 1.26 | .500 | .472 | 1/2 | .75 | 1-7/8 | .158 | 1-1/4 | .630 | 1/2 - 13 | **HK313885412P** | Price |
| 16 | 5.118 | 1.417 | .591 | .551 | 1/2 | .75 | 2-1/4 | .284 | 1-1/2 | .866 | 5/8 - 11 | **HK313885416P** | Price |
| 20 | 6.535 | 1.575 | .630 | .551 | 1/2 | .75 | 2-1/4 | .284 | 1-1/2 | 1.26 | 3/4 - 10 | **HK313885420P** | Price |
| 25 | 8.268 | 1.968 | .630 | .551 | 1/2 | .75 | 2-1/4 | .284 | 1-1/2 | 1.26 | 3/4 - 10 | **HK313885425P** | Price |

**No. of Jaws - 6**

| Chuck Size (in.) | A (in.) | B (in.) | D (in.) | E (in.) | F (in.) | G (in.) | H (in.) | J (in.) | K (in.) | L (in.) | M (in.) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 2.126 | 0.787 | .315 | .315 | 5/16 | .50 | 57/64 | .158 | 5/8 | .472 | 5/16 - 18 | **HK313885605P** | Price |
| 6 | 2.559 | 0.787 | .315 | .315 | 5/16 | .50 | 1-1/8 | .158 | 3/4 | .551 | 3/8 - 16 | **HK313885606P** | Price |
| 8 | 3.110 | 0.984 | .354 | .394 | 5/16 | .50 | 1-3/8 | .158 | 7/8 | .551 | 3/8 - 16 | **HK313885608P** | Price |
| 10 | 3.622 | 1.102 | .433 | .472 | 1/2 | .75 | 1-9/16 | .158 | 1-1/16 | .630 | 1/2 - 13 | **HK313885610P** | Price |
| 12 | 4.331 | 1.26 | .500 | .472 | 1/2 | .75 | 1-7/8 | .158 | 1-1/4 | .630 | 1/2 - 13 | **HK313885612P** | Price |
| 16 | 5.118 | 1.417 | .591 | .551 | 1/2 | .75 | 2-1/4 | .284 | 1-1/2 | .866 | 5/8 - 11 | **HK313885616P** | Price |
| 20 | 6.535 | 1.575 | .630 | .551 | 1/2 | .75 | 2-1/4 | .284 | 1-1/2 | 1.26 | 3/4 - 10 | **HK313885620P** | Price |
| 25 | 8.268 | 1.968 | .630 | .551 | 1/2 | .75 | 2-1/4 | .284 | 1-1/2 | 1.26 | 3/4 - 10 | **HK313885625P** | Price |

## Spare Parts for Bison Self-Centering Chucks

### Scroll & Pinion for Standard Steel Body or Set -Tru Chucks





- For Bison Chucks only
- Sold by the piece

| | Pinion (Standard) | | Pinion (Steel) | | Scroll (Standard) | | Scroll (Steel) | |
|---|---|---|---|---|---|---|---|---|
| Chuck Size (in.) | Order No. | Price | Order No. | Price | Order No. | Price | Order No. | Price |
| 3 | **HK30886303** | Price | **-** | - | **HK30887303** | Price | **-** | - |
| 4 | **HK30886304** | Price | **-** | - | **HK30887304** | Price | **-** | - |
| 5 | **HK30886305** | Price | **HK30886505** | Price | **HK30887305** | Price | **HK30887505** | Price |
| 6 | **HK30886306** | Price | **HK30886506** | Price | **HK30887306** | Price | **HK30887506** | Price |
| 8 | **HK30886308** | Price | **HK30886508** | Price | **HK30887308** | Price | **HK30887508** | Price |
| 10 | **HK30886310** | Price | **HK30886510** | Price | **HK30887310** | Price | **HK30887510** | Price |
| 12 | **HK30886312** | Price | **HK30886512** | Price | **HK30887312** | Price | **HK30887512** | Price |
| 16 | **HK30886316** | Price | **HK30886516** | Price | **HK30887316** | Price | **HK30887516** | Price |
| 20 | **HK30886320** | Price | **HK30886520** | Price | **HK30887320** | Price | **HK30887520** | Price |
| 25 | **HK30886325** | Price | **HK30886525** | Price | **HK30887325** | Price | **HK30887525** | Price |
| 32 | **HK30886332** | Price | **-** | - | **HK30887332** | Price | **-** | - |

## Spare Parts for Bison Self-Centering Chucks

### Hard Master Jaws for 3-Jaw



- For Bison Chucks Only
- Sold in Sets of 3

| Chuck Size (in.) | Order No. | Price |
|---|---|---|
| 5 | **HK30885305** | Price |
| 6 | **HK30885306** | Price |
| 8 | **HK30885308** | Price |
| 10 | **HK30885310** | Price |
| 12 | **HK30885312** | Price |
| 16 | **HK30885316** | Price |
| 20 | **HK30885320** | Price |
| 25 | **HK30885325** | Price |

## Spare Parts for Bison Self-Centering Chucks

### Hard Master Jaws for 6-Jaw



- For Bison Chucks Only
- Sold in Sets of 6

| Chuck Size (in.) | Order No. | Price |
|---|---|---|
| 5 | **HK30885605** | Price |
| 6 | **HK30885606** | Price |
| 8 | **HK30885608** | Price |
| 10 | **HK30885610** | Price |
| 12 | **HK30885612** | Price |
| 16 | **HK30885616** | Price |
| 20 | **HK30885620** | Price |
| 25 | **HK30885625** | Price |

## Operating Screws



- For Bison Independent Chucks

| Chuck Size (in.) | Order No. | Price |
|---|---|---|
| 3 | **HK30890603** | Price |
| 5 - 6 | **HK30890606** | Price |
| 8 | **HK30890608** | Price |
| 10 | **HK30890610** | Price |
| 12 | **HK30890612** | Price |
| 16 | **HK30890616** | Price |
| 20 | **HK30890620** | Price |
| 25 | **HK30890625** | Price |
| 32 | **HK30890632** | Price |
| 36 | **HK30890636** | Price |
| 40 | **HK30890640** | Price |
| 49 | **HK30890649** | Price |

## Spare Parts for Bison Self-Centering Chucks

### Lathe Chuck Wrench



Sold by the piece

| Chuck Size (in.) | Size of Square | Order No. | Price |
|---|---|---|---|
| 2 | - | **HK30889002** | Price |
| 3 & 3-1/2 | 0.24 | **HK30889003** | Price |
| 4 - 5 | 0.35 | **HK30889005** | Price |
| 6 - 8 | 0.43 | **HK30889008** | Price |
| 10 - 12 | 0.55 | **HK30889012** | Price |
| 16 | 0.67 | **HK30889016** | Price |
| 20 - 25 | 0.75 | **HK30889025** | Price |
| 32 | 0.75 | **HK30889032** | Price |

## Self-Ejecting Lathe Chuck Keys



- Made to fit all makes of lathe chucks
- Meets all safety specificaions

| Size of Square (in.) | OAL (in.) | Handle Length (in.) | Order No. | Price |
|---|---|---|---|---|
| 7/32 | 2-3/8 | 3-1/8 | **HK40125** | Price |
| 1/4 | 3-1/2 | 4 | **HK40126** | Price |
| 9/32 | 4-1/2 | 5 | **HK40128** | Price |
| 5/16 | 4-1/2 | 5 | **HK40128A** | Price |
| 3/8 | 3 | 6 | **HK40129** | Price |
| 3/8 | 5-1/2 | 6 | **HK40129A** | Price |
| 13/32 | 3-3/4 | 6 | **HK40130** | Price |
| 13/32 | 8-1/8 | 6 | **HK40131** | Price |
| 7/16 | 6 | 10 | **HK40132A** | Price |
| 15/32 | 8-1/16 | 10 | **HK40132B** | Price |
| 1/2 | 5-1/8 | 8 | **HK40133** | Price |
| 1/2 | 8-1/16 | 12 | **HK40134** | Price |
| 1/2 | 11 | 11-1/2 | **HK40135** | Price |
| 1/2 | 14-5/8 | 11-1/2 | **HK40136** | Price |
| 1/2 | 18-1/2 | 11-1/2 | **HK40137** | Price |
| 9/16 | 5-1/8 | 12 | **HK40138** | Price |
| 9/16 | 8-9/16 | 11-1/2 | **HK40139** | Price |
| 9/16 | 9-7/16 | 14 | **HK40140** | Price |
| 9/16 | 11/16 | 11-1/2 | **HK40141** | Price |
| 9/16 | 13-13/16 | 11-1/2 | **HK40142** | Price |
| 9/16 | 17 | 18 | **HK40143** | Price |
| 5/8 | 10-1/4 | 20 | **HK40145** | Price |
| 11/16 | 12 | 14 | **HK40146** | Price |
| 3/4 | 9-7/8 | 18 | **HK40147** | Price |

## Chuck Grease



- 1/2 lbs. container
- For Bison Manual and Power Chucks

| Order No. | Price |
|---|---|
| **HK30799025** | Price |

**Hazard Code: 58**

## H&R Mfg. and Supply, Inc. Square End Chuck Wrenches with Handle

- Handle lengths are designed for maximum twisting load
- WARRANTY IS VOID if handle extension (Cheater Pipe) is used or has been used with wrenches and/or any modification made to wrench



| Type - Square Double End Lathe Chuck Wrench | | | | | |
|---|---|---|---|---|---|
| Square (in) | Handle Dia. (in.) | Handle Length (in.) | Head Length (in) | Order No. | Price |
| 5/8 | 3/4 | 18 | 5 | **HF70625500B** | Price |
| 3/4 | 1 | 24 | 6 | **HF70750600B** | Price |
| 7/8 | 1 | 24 | 6-1/2 | **HF70875650B** | Price |
| 1 | 1 | 24 | 6-1/2 | **HF701000650B** | Price |

| Type - Square End Lathe Chuck Wrench | | | | | |
|---|---|---|---|---|---|
| Square (in) | Handle Dia. (in.) | Handle Length (in.) | Head Length (in) | Order No. | Price |
| 1/4 | 1/2 | 7 | 3-1/2 | **HF70250350A** | Price |
| 1/4 | 1/2 | 7 | 7 | **HF70250700A** | Price |
| 5/16 | 1/2 | 7 | 4 | **HF70312400A** | Price |
| 5/16 | 1/2 | 7 | 8 | **HF70312800A** | Price |
| 3/8 | 1/2 | 7 | 4 | **HF70375400A** | Price |
| 3/8 | 1/2 | 7 | 8 | **HF70375800A** | Price |
| .400 | 1/2 | 10 | 4 | **HF70400400A** | Price |
| .400 | 1/2 | 10 | 8 | **HF70400800A** | Price |
| 7/16 | 1/2 | 12 | 4 | **HF70438400A** | Price |
| 7/16 | 1/2 | 12 | 8 | **HF70438800A** | Price |
| 1/2 | 3/4 | 18 | 5 | **HF70500500A** | Price |
| 1/2 | 3/4 | 18 | 7-1/2 | **HF70500750A** | Price |
| 1/2 | 3/4 | 18 | 10 | **HF705001000A** | Price |
| 9/16 | 3/4 | 18 | 5 | **HF70563500A** | Price |
| 9/16 | 3/4 | 18 | 7-1/2 | **HF70563750A** | Price |
| 9/16 | 3/4 | 18 | 10 | **HF705631000A** | Price |

## Hard Solid ID Jaws

- For Bison scroll chucks



| For Chuck Size (in.) | Order No. | Price |
|---|---|---|
| 8 | **HK30881308** | Price |
| 10 | **HK30881310** | Price |
| 12 | **HK30881312** | Price |
| 16 | **HK30881316** | Price |
| 20 | **HK30881320** | Price |
| 25 | **HK30881325** | Price |

## Soft Solid Jaws

- Blank jaws for Bison scroll chucks



| For Chuck Size (in.) | Order No. | Price |
|---|---|---|
| 5 | **HK30882405** | Price |
| 6 | **HK30882406** | Price |
| 8 | **HK30882408** | Price |
| 10 | **HK30882410** | Price |
| 12 | **HK30882312** | Price |
| 12 | **HK30882412** | Price |
| 16 | **HK30882316** | Price |
| 16 | **HK30882416** | Price |
| 20 | **HK30882420** | Price |
| 25 | **HK30882425** | Price |

## OD Hard Solid Jaws for 3 Jaw Chucks

- Sold in sets



| For Chuck Size (in.) | Weight | Order No. | Price |
|---|---|---|---|
| 5 | 1.2 lbs | **HK30880305** | Price |
| 6 | 2.4 lbs | **HK30880306** | Price |
| 8 | 3.2 lbs | **HK30880308** | Price |
| 12 | 8.7 lbs | **HK30880312** | Price |
| 16 | 15.65 lbs | **HK30880316** | Price |
| 20 | 22.8 lbs | **HK30880320** | Price |
| 25 | 41.8 lbs | **HK30880325** | Price |

## Bison Hard Solid Reversible Jaw Sets

- For Bison 4-Jaw Independent Chucks
- Priced each



| Chuck Size (in.) | Order No. | Price |
|---|---|---|
| 3 | **HK308901030** | Price |
| 5-6 | **HK308901060** | Price |
| 10 | **HK308901100** | Price |
| 12 | **HK308901120** | Price |

| Chuck Size (in.) | Order No. | Price |
|---|---|---|
| 16 | **HK308901160** | Price |
| 20 | **HK308901200** | Price |
| 25 | **HK308901250** | Price |
| 32 | **HK308901320** | Price |

| Type - Square End Lathe Chuck Wrench | | | | | |
|---|---|---|---|---|---|
| Square (in) | Handle Dia. (in.) | Handle Length (in.) | Head Length (in) | Order No. | Price |
| 5/8 | 3/4 | 18 | 5 | **HF70625500A** | Price |
| 5/8 | 3/4 | 18 | 7-1/2 | **HF70625750A** | Price |
| 5/8 | 3/4 | 18 | 10 | **HF706251000A** | Price |
| 11/16 | 3/4 | 18 | 5 | **HF70688500A** | Price |
| 11/16 | 3/4 | 18 | 7-1/2 | **HF70688750A** | Price |
| 11/16 | 3/4 | 18 | 10 | **HF706881000A** | Price |
| 3/4 | 1 | 24 | 5 | **HF70750500A** | Price |
| 3/4 | 1 | 24 | 7-1/2 | **HF70750750A** | Price |
| 3/4 | 1 | 24 | 10 | **HF708501000A** | Price |
| 7/8 | 1 | 24 | 5 | **HF70875500A** | Price |
| 7/8 | 1 | 24 | 7-1/2 | **HF70875750A** | Price |
| 1 | 1 | 24 | 5 | **HF701000500A** | Price |
| 1 | 1 | 24 | 7-1/2 | **HF701000750A** | Price |
| 1 | 1 | 24 | 10 | **HF7010001000A** | Price |

| Type - Square Hex End Lathe Chuck Wrench | | | | | |
|---|---|---|---|---|---|
| Square (in) | Handle Dia. (in.) | Handle Length (in.) | Head Length (in) | Order No. | Price |
| 1/2 | 3/4 | 18 | 10 | **HF705001000C** | Price |
| 9/16 | 3/4 | 18 | 10 | **HF705631000C** | Price |
| 5/8 | 3/4 | 18 | 5 | **HF7062500C** | Price |
| 3/4 | 1 | 24 | 10 | **HF707501000C** | Price |
| 7/8 | 1 | 24 | 5 | **HF70875500C** | Price |

## Hard Top and Master Jaws

- For Bison Independent Chucks
- Priced each





| | Hard Top Jaw | | Master Jaw | |
|---|---|---|---|---|
| Chuck Size (in.) | Order No. | Price | Order No. | Price |
| 8 | **HK30890208** | Price | **HK30890308** | Price |
| 10 | **HK30890210** | Price | **HK30890310** | Price |
| 12 | **HK30890212** | Price | **HK30890312** | Price |
| 16 | **-** | - | **HK30890316** | Price |
| 20 | **HK30890220** | Price | **HK30890320** | Price |
| 25 | **HK30890225** | Price | **HK30890325** | Price |
| 32 | **-** | - | **HK30890332** | Price |
| 36, 40, 49 | **-** | - | **HK30890336** | Price |

## Soft Solid Jaw Sets

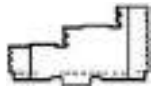
- 4 Jaws per set
- For Bison Combination Chucks



| Chuck Size (in.) | Order No. | Price |
|---|---|---|
| 8 | **HK30891308** | Price |
| 10 | **HK30891310** | Price |
| 12 | **HK30891312** | Price |
| 16 | **HK30891316** | Price |
| 20 | **HK30891320** | Price |
| 25 | **HK30891325** | Price |

## Hard Top Jaws for 3 & 6-Jaw Chucks

### American Standard Medium Duty



- 3-Jaw sold in sets of 3
- 6-Jaw sold in set of 6

| | 3-Jaw | | 6-Jaw | |
|---|---|---|---|---|
| Chuck Size (in.) | Order No. | Price | Order No. | Price |
| 5 | **HK30883305** | Price | **HK30883605** | Price |
| 6 | **HK30883306** | Price | **HK30883606** | Price |
| 8 | **HK30883308** | Price | **HK30883608** | Price |
| 10 | **HK30883310** | Price | **HK30883610** | Price |
| 12 | **HK30883312** | Price | **HK30883612** | Price |
| 16 | **HK30883316** | Price | **HK30883616** | Price |
| 20 | **HK30883320** | Price | **HK30883620** | Price |
| 25 | **-** | - | **HK30883625** | Price |
| 25 and 32 | **HK30883325** | Price | **-** | - |

## Large Through-Hole 3-Jaw Self-Centering Scroll Chucks

### Light to Medium Duty

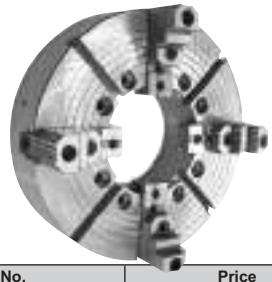


**Features:**
- Two-piece reversible American Standard Tongue and Groove Jaws
- Designed for pipe machining or pope welding cut-off operations
- Used on lathes, rotary tables and welding devices
- Jaws, scroll plate and three pinions carefully heat treated and ground
- Balanced scroll

**Standard Accessories:**
- 1 Set of master jaws
- 1 Wrench
- 1 Set of mounting bolts

| Chuck Size (in.) | Hole Size (in.) | Max. RPM | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 16 | 8.660 | 500 | 127 lbs | **HK308191600** | Price |
| 20 | 12.600 | 350 | 167 lbs | **HK308192000** | Price |
| 26 | 15.980 | 250 | 285 lbs | **HK308192600** | Price |

## Extra Heavy Duty 4-Jaw Independent Chucks



**Features:**
- 1 Set of two-piece reversible jaws
- 1 Wrench
- 1 Set of mounting bolts
- 2 Allen keys
- Eye bolts

| Chuck Size (in.) | Mount | Hole Size (in.) | Weight | Order No. | Price |
|---|---|---|---|---|---|
| 20 | A15 | 8.000 | 414 lbs | **HK308592043** | Price |
| 25 | A15 | 10.500 | 684 lbs | **HK308592543** | Price |
| 25 | A20 | 12.550 | 662 lbs | **HK308592555** | Price |
| 28 | A15 | 10.500 | 915 lbs | **HK308592845** | Price |
| 28 | A20 | 12.550 | 873 lbs | **HK308592853** | Price |
| 28 | D11 | 7.500 | 993 lbs | **HK308596839** | Price |

## 3-Jaw Quick Change Jaw Power Chucks



- Change all 3 Jaws in less than One Minute
- Built In Safetly Mechanism prevents Jaw Movement
- High Alloy Steel Material
- High T.I.R. Accuracy

| Model No. | Chuck Dia. (in.) | Jaw Stroke (in.) | Plunger Stroke (in.) | Max. Gripping Force (lbs) | Max. Speed (RPM) | No. of Jaws | Net Weight (lbs) | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|
| QJC206 | 6.496 | 0.449 | .449 | 10116 | 6000 | 3 | 29 | **SC60QJC206** | Price |
| QJC206A5 | 6.496 | 0.449 | .449 | 10116 | 6000 | 3 | 33 | **SC60QJC206A5** | Price |
| QJC208 | 8.465 | 0.567 | .567 | 22480 | 5500 | 3 | 53 | **SC60QJC208** | Price |
| QJC208A6 | 8.465 | 0.567 | .567 | 22480 | 5500 | 3 | 56 | **SC60QJC208A6** | Price |
| QJC210 | 10.236 | 0.63 | .630 | 25852 | 4000 | 3 | 93 | **SC60QJC210** | Price |
| QJC210A6 | 10.236 | 0.63 | .630 | 25852 | 4000 | 3 | 108 | **SC60QJC210A6** | Price |
| QJC210A8 | 10.236 | 0.63 | .630 | 25852 | 4000 | 3 | 105 | **SC60QJC210A8** | Price |
| QJC212 | 12.402 | 0.63 | .630 | 35968 | 3600 | 3 | 146 | **SC60QJC212** | Price |
| QJC212A6 | 12.402 | 0.63 | .630 | 35968 | 3600 | 3 | 172 | **SC60QJC212A6** | Price |
| QJC212A8 | 12.402 | 0.63 | .630 | 35968 | 3600 | 3 | 165 | **SC60QJC212A8** | Price |
| QJC215 | 15.748 | 0.669 | .669 | 53952 | 3500 | 3 | 240 | **SC60QJC215** | Price |
| QJC215A11 | 15.748 | 0.669 | .669 | 53952 | 3500 | 3 | 256 | **SC60QJC215A11** | Price |
| QJC215A8 | 15.748 | 0.669 | .669 | 53952 | 3500 | 3 | 271 | **SC60QJC215A8** | Price |
| QJC220 | 19.685 | 0.787 | .787 | 53952 | 2200 | 3 | 496 | **SC60QJC220** | Price |
| QJC220A11 | 19.685 | 0.787 | .787 | 53952 | 2200 | 3 | 534 | **SC60QJC220A11** | Price |
| QJC220A15 | 19.685 | 0.787 | .787 | 53952 | 2200 | 3 | 553 | **SC60QJC220A15** | Price |

## SAMCHULLY 3-Jaw Hydraulic Chuck

- Standard high-speed 3-jaw wedge-style open-center power chuck
- Direct replacement for Kitagawa Model B-208



| Model No. | Chuck Dia. (in.) | Grip Range Min. (in.) | Grip Range Max. (in.) | Jaw Stroke Dia. (in.) | Plunger Stroke (in.) | Thru Hole Dia. (in.) | Max. Gripping Force (lbs) | Max. RPM | Max. Hydraulic Pressure | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HS05 | 5.315 | 0.472 | 5.315 | 0.213 | .394 | 1.299 | 8092 | 7000 | 3.43(35.0) | **SC60HS05** | Price |
| HS05 | 5.315 | 0.472 | 5.315 | 0.213 | .394 | 1.299 | 8092 | 7000 | 3.43(35.0) | **SC60HS05** | Price |
| HS06 | 6.654 | 0.591 | 6.654 | 0.217 | .472 | 1.811 | 12813 | 6000 | 2.8(28.6) | **SC60HS06** | Price |
| HS06 | 6.654 | 0.591 | 6.654 | 0.217 | .472 | 1.811 | 12813 | 6000 | 2.8(28.6) | **SC60HS06** | Price |
| HS06A5 | 6.654 | 0.591 | 6.654 | 0.217 | .472 | 1.811 | 12813 | 6000 | - | **SC60HS06A5** | Price |
| HS06A5 | 6.654 | 0.591 | 6.654 | 0.217 | .472 | 1.811 | 12813 | 6000 | - | **SC60HS06A5** | Price |
| HS08 | 8.268 | 0.512 | 8.268 | 0.291 | .630 | 2.047 | 19332 | 5000 | 2.65(27) | **SC60HS08** | Price |
| HS08 | 8.268 | 0.512 | 8.268 | 0.291 | .630 | 2.047 | 19332 | 5000 | 2.65(27) | **SC60HS08** | Price |
| HS08A6 | 8.268 | 0.512 | 8.268 | 0.291 | .630 | 2.047 | 19332 | 5000 | - | **SC60HS08A6** | Price |
| HS08A6 | 8.268 | 0.512 | 8.268 | 0.291 | .630 | 2.047 | 19332 | 5000 | - | **SC60HS08A6** | Price |
| HS10 | 10 | 1.22 | 10 | 0.346 | .748 | 3.031 | 24952 | 4200 | 2.7(27.5) | **SC60HS10** | Price |
| HS10 | 10 | 1.22 | 10 | 0.346 | .748 | 3.031 | 24952 | 4200 | 2.7(27.5) | **SC60HS10** | Price |
| HS10A6 | 10 | 1.22 | 10 | 0.346 | .748 | 3.031 | 24952 | 4200 | - | **SC60HS10A6** | Price |
| HS10A6 | 10 | 1.22 | 10 | 0.346 | .748 | 3.031 | 24952 | 4200 | - | **SC60HS10A6** | Price |
| HS10A8 | 10 | 1.22 | 10 | 0.346 | .748 | 3.031 | 24952 | 4200 | - | **SC60HS10A8** | Price |
| HS10A8 | 10 | 1.22 | 10 | 0.346 | .748 | 3.031 | 24952 | 4200 | - | **SC60HS10A8** | Price |
| HS12 | 11.969 | 1.339 | 11.969 | 0.417 | .906 | 3.583 | 32371 | 3300 | 2.7(27.5) | **SC60HS12** | Price |
| HS12 | 11.969 | 1.339 | 11.969 | 0.417 | .906 | 3.583 | 32371 | 3300 | 2.7(27.5) | **SC60HS12** | Price |
| HS12A6 | 11.969 | 1.339 | 11.969 | 0.417 | .906 | 3.583 | 32371 | 3300 | - | **SC60HS12A6** | Price |
| HS12A6 | 11.969 | 1.339 | 11.969 | 0.417 | .906 | 3.583 | 32371 | 3300 | - | **SC60HS12A6** | Price |
| HS12A8 | 11.969 | 1.339 | 11.969 | 0.417 | .906 | 3.583 | 32371 | 3300 | - | **SC60HS12A8** | Price |
| HS12A8 | 11.969 | 1.339 | 11.969 | 0.417 | .906 | 3.583 | 32371 | 3300 | - | **SC60HS12A8** | Price |

## SAMCHULLY 3-Jaw Wedge Style Power Chucks

- Open Center Design
- Replaces Kitigawa B-16
- A11 Spindle Adapter



| Model No. | Chuck Dia. (in.) | Grip Range Min. (in.) | Thru Hole Dia. (in.) | Grip Range Max. (in.) | Jaw Stroke Dia. (in.) | Plunger Stroke (in.) | Max. Gripping Force (lbs) | Max. RPM | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|
| HCH15 | 15 | 1.181 | 4.626 | 15 | 0.417 | .906 | 40464 | 2500 | **SC60HCH15** | Price |
| HCH15A8 | 15 | 1.181 | 4.626 | 15 | 0.417 | .906 | 40464 | 2500 | **SC60HCH15A8** | Price |
| HCH15A11 | 15 | 1.181 | 4.626 | 15 | 0.417 | .906 | 40464 | 2500 | **SC60HCH15A11** | Price |
| HCH18 | 17.717 | 1.181 | 4.626 | 17.717 | 0.417 | .906 | 40464 | 2000 | **SC60HCH18** | Price |
| HCH18A11 | 17.717 | 1.181 | 4.626 | 17.717 | 0.417 | .906 | 40464 | 2000 | **SC60HCH18A11** | Price |

## SAMCHULLY Hard & Soft Jaws for HS & HCH Power Chucks



| Type - Hard Jaws | | |
|---|---|---|
| **Description** | **Order No.** | **Price** |
| For HCH-15 B-15 Power Chuck | **SC60HB15A1** | Price |
| For HCH-21 B-21 Power Chuck | **SC60HB18B2** | Price |
| For HS-06 B-206 Power Chuck | **SC60HB06A1** | Price |
| For HS-08 B-208 Power Chuck | **SC60HB08A1** | Price |
| For HS-10 B-210 Power Chuck | **SC60HB10A1** | Price |
| For HS-12 B-212 Power Chuck | **SC60HB12N1** | Price |

| Type - Soft Jaws | | |
|---|---|---|
| **Description** | **Order No.** | **Price** |
| For HCH-15 B-15 Power Chuck | **SC60SB15C1** | Price |
| For HCH-21 B-21 Power Chuck | **SC60SB18A2** | Price |
| For HS-12 B-212 Power Chuck | **SC60SB12N1** | Price |

## TOOLMEX Industrial Solutions 3-Jaw Closed Center Direct Mount Power Chucks



- Supplied with spindle mounting plate, set of soft top jaws, set of t-nuts, wrenches for chuck installation and operation
- Low cost direct replacement for major OE brands
- High performance and great value
- Use existing top jaws 1.5mm x 60° serrations
- Hardened and ground critical surfaces for long life and high accuracy
- 1 Year Warranty

| Chuck Dia. (in.) | Jaw Stroke (in.) | Plunger Stroke (in.) | Max. Gripping Force (lbs) | Max. Speed (RPM) | Net Weight (lbs) | Spindle Nose | Gripping Range Min. (in.) | Gripping Range Max. (in.) | Chuck Height | No. of Jaws | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | .362 | .787 | 14167 | 6000 | 200 | A2-5 | .748 | 6.490 | 3.300 | 3 | **HK3137610605** | Price |
| 8 | .346 | .827 | 17990 | 4800 | 200 | A2-6 | .906 | 8.268 | 3.810 | 3 | **HK3137610806** | Price |
| 10 | .346 | .984 | 25861 | 4100 | 200 | A2-8 | .944 | 10.000 | 4.010 | 3 | **HK3137611008** | Price |
| 12 | .413 | 1.180 | 35306 | 3400 | 200 | A2-8 | 1.020 | 11.968 | 4.640 | 3 | **HK3137611208** | Price |
| 15 | .732 | 1.378 | 32797 | 2100 | 250 | A2-11 | 2.360 | 15.000 | 4.920 | 3 | **HK3137611511** | Price |
| 18 | .732 | 1.378 | 32797 | 1700 | 350 | A2-11 | 2.360 | 17.990 | 4.920 | 3 | **HK3137611811** | Price |
| 21 | .732 | 1.378 | 43283 | 1500 | 500 | A2-15 | 4.331 | 20.866 | 5.510 | 3 | **HK3137612115** | Price |
| 24 | .732 | 1.378 | 43283 | 1200 | 700 | A2-15 | 4.331 | 24.000 | 5.510 | 3 | **HK3137612415** | Price |

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## TOOLMEX Industrial Solutions 3-Jaw Direct Mount Power Chuck



- Supplied with spindle mounting plate, Semi-finished draw nut, draw nut wrench, set of soft top jaws, set of t-nuts, wrenches for chuck installation and operation.
- Low cost direct replacement for major OE brands
- High performance and great value
- Use existing top jaws 1.5mm x 60° serrations
- Hardened and ground critical surfaces for long life and high accuracy
- Large thru hole
- 1 Year Warranty

| Chuck Dia. (in.) | Through Hole Dia. (in.) | Jaw Stroke Dia. (in.) | Plunger Stroke | Max. Gripping Force (lbs) | Max. Speed (RPM) | Net Weight (lbs) | Spindle Nose | Gripping Range Min. (in.) | Gripping Range Max. (in.) | Chuck Height (in.) | No. of Jaws | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 1.811 | .216 | .512 | 14167 | 6000 | 33.8 | A2-5 | .512 | 6.654 | 3.543 | 3 | **HK3137810650** | Price |
| 8 | 2.047 | .299 | .709 | 21159 | 5000 | 58.1 | A2-6 | .433 | 8.268 | 4.055 | 3 | **HK3137810860** | Price |
| 10 | 3.032 | .335 | .787 | 28088 | 4200 | 90 | A2-6 | 1.220 | 10.000 | 4.449 | 3 | **HK3137811060** | Price |
| 10 | 3.032 | .335 | .787 | 28088 | 4200 | 95 | A2-8 | 1.220 | 10.000 | 4.449 | 3 | **HK3137811080** | Price |
| 12 | 3.583 | .402 | .945 | 33071 | 3300 | 149 | A2-8 | 1.339 | 11.968 | 5.000 | 3 | **HK3137811280** | Price |
| 15 | 4.646 | .417 | .906 | 40467 | 2500 | 296 | A2-11 | 1.181 | 15.000 | 5.866 | 3 | **HK3137811511** | Price |
| 18 | 4.646 | .417 | .906 | 40467 | 2000 | 400 | A2-11 | 1.181 | 17.716 | 5.866 | 3 | **HK3137811811** | Price |
| 21 | 5.512 | .417 | .906 | 52606 | 1700 | 650 | A2-15 | 3.425 | 20.866 | 6.339 | 3 | **HK3137812115** | Price |
| 24 | 6.496 | .409 | .906 | 52606 | 1400 | 800 | A2-15 | 4.331 | 24.016 | 6.693 | 3 | **HK3137812415** | Price |

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## TOOLMEX Industrial Solutions 3-Jaw Extra Large Hole Direct Mount Power Chuck



- Supplied with spindle mounting plate, semi-finished draw nut, draw nut wrench, set of soft top jaws, set of t-nuts, wrenches for chuck installation and operation
- Low cost direct replacement for major OE brands
- High performance and great value
- Use existing top jaws 1.5mm x 60° serrations
- Hardened and ground critical surfaces for long life and high accuracy
- Large thru hole
- 1 Year Warranty

| Chuck Dia. (in.) | Through Hole Dia. (in.) | Jaw Stroke Dia. (in.) | Plunger Stroke (in.) | Max. Gripping Force (lbs) | Max. Speed (RPM) | Net Weight (lbs) | Spindle Nose | Gripping Range Min. (in.) | Gripping Range Max. (in.) | Chuck Height (in.) | No. of Jaws | Order No. | Price |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 2.590 | .299 | .709 | 21159 | 5000 | 61.7 | A2-6 | .433 | 8.268 | 4.370 | 3 | **HK3137710860** | Price |
| 10 | 3.220 | .334 | .787 | 26986 | 4200 | 85 | A2-6 | 1.220 | 10.000 | 4.449 | 3 | **HK3137711060** | Price |
| 10 | 3.220 | .334 | .787 | 26986 | 4200 | 98 | A2-8 | 1.220 | 10.000 | 4.449 | 3 | **HK3137711080** | Price |

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