

# Milling Vise

## Milling Accessories



**G101-G188**

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Milling Vise



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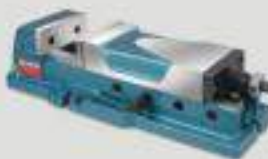
65210 G121



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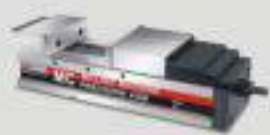
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## Milling Vise



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65986 G188

# Milling Machine Accessories

**65086**

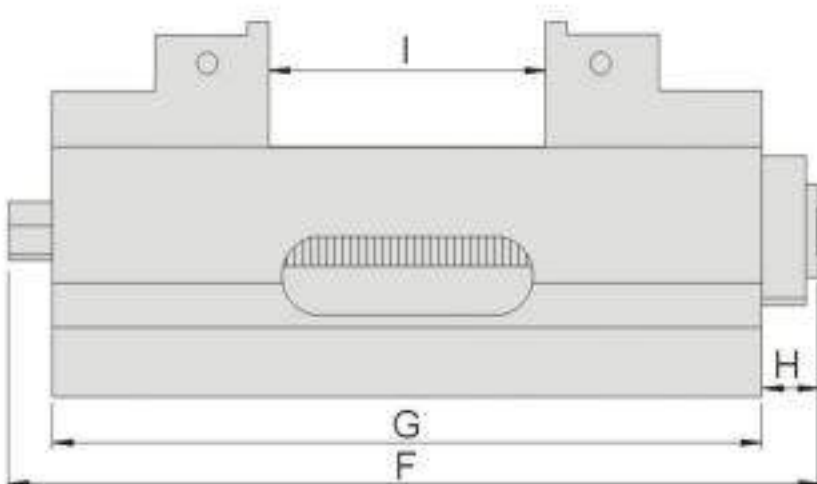
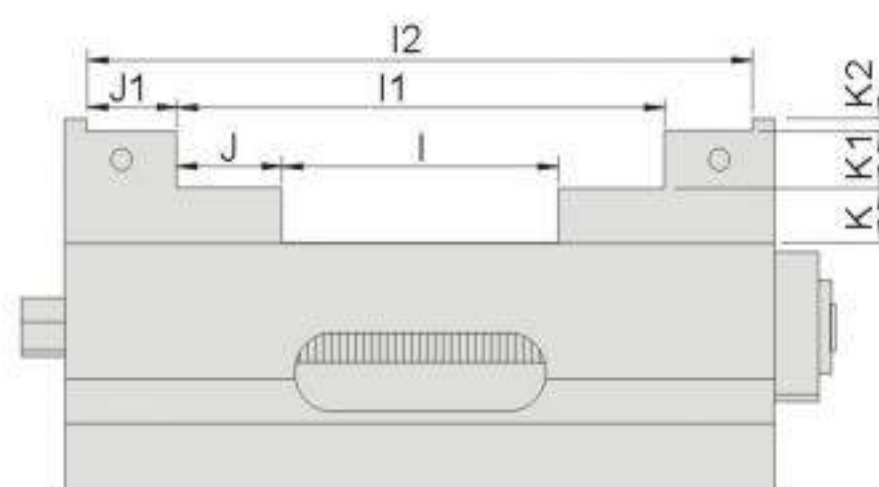
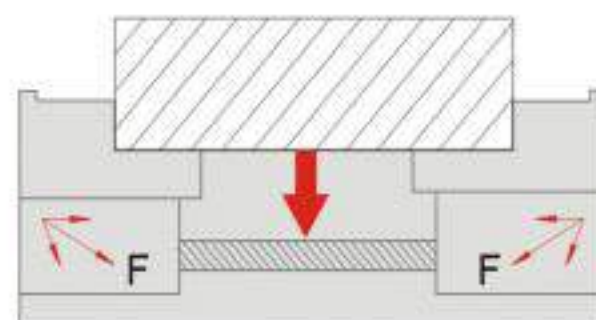
**scv**

**Self Centering Vise**

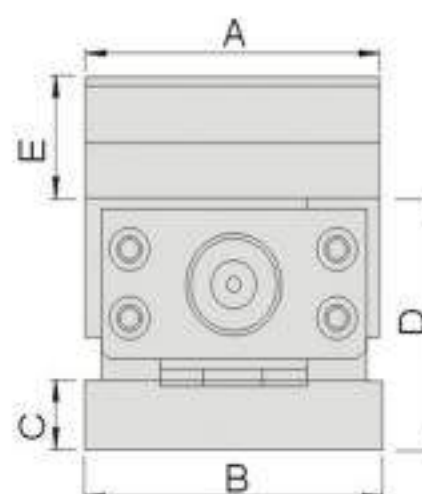
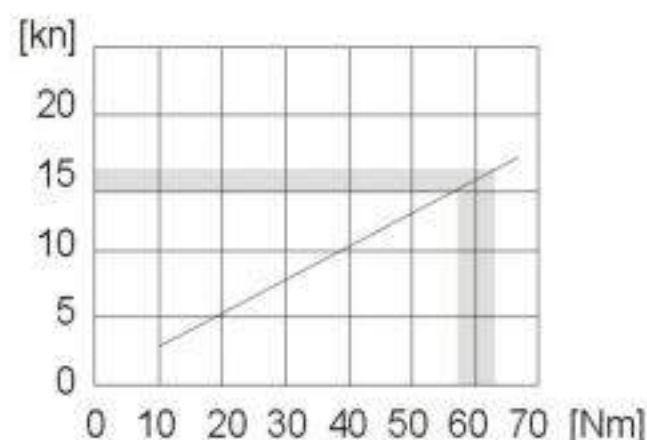


## Features:

- ▶ Suitable for 4<sup>th</sup>, 5<sup>th</sup> axis, CNC rotary table and horizontal/vertical CNC milling machine.
- ▶ Repeating center accuracy is  $\pm 0.01\text{mm}$ .
- ▶ Body is made of FCD60 and the rail is with high frequency heat treatment above HRC45° which achieve high wear resistance.
- ▶ Jaw face adopting full steel with heat treatment reach over HRC 55°, interchangeability is flexible.
- ▶ Lock tight system to prevent floating for better efficiency.



CLAMPING CURVE



| Order No. | Model  | A   | B   | C  | D   | E  | F   | G   | H  | I     | I1     | I2      | J    | J1 | K    | K1   | K2 | N.W.   |
|-----------|--------|-----|-----|----|-----|----|-----|-----|----|-------|--------|---------|------|----|------|------|----|--------|
| 65086-01  | SCV60  | 59  | 60  | 18 | 60  | 25 | 143 | 120 | 13 | 0~50  | 38~85  | --      | 17.5 | -- | 12.5 | 12.5 | -- | 4.5kg  |
| 65086-02  | SCV100 | 100 | 101 | 22 | 80  | 40 | 260 | 240 | 20 | 0~90  | 70~160 | 134~222 | 35   | 31 | 18   | 18   | 4  | 17.5kg |
| 65086-03  | SCV160 | 160 | 161 | 22 | 105 | 55 | 440 | 370 | 70 | 0~200 | 86~285 | --      | 42.5 | -- | 27.5 | 27.5 | -- | 47.5kg |

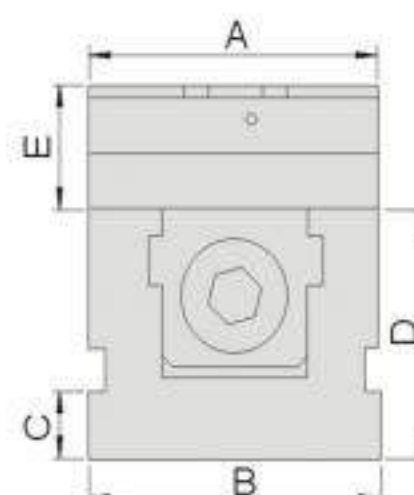
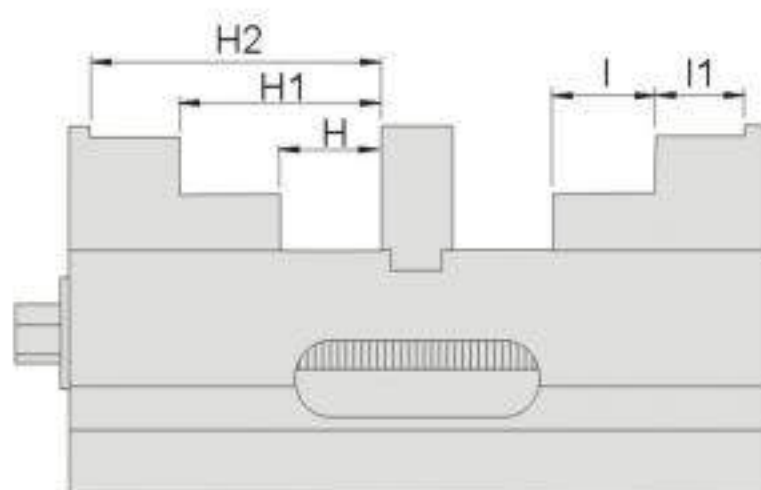
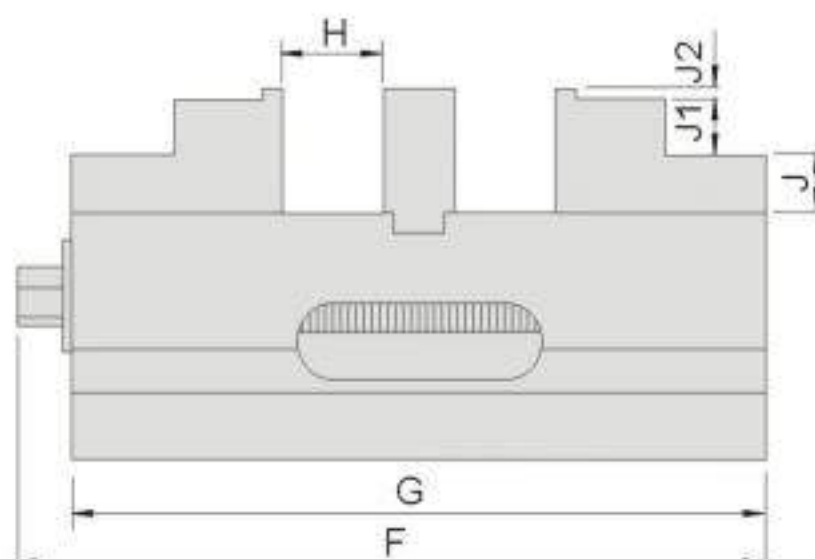
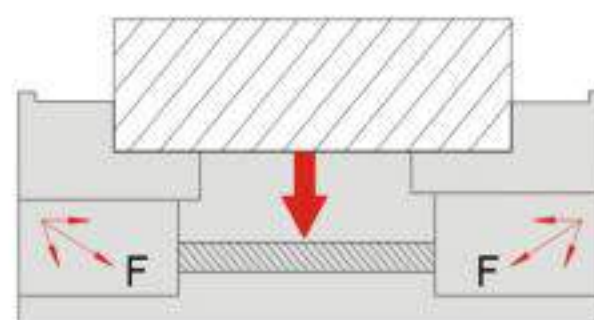
Unit:mm

# 65087 SDV100 Double-Lock Mechanical Vise



## Features:

- ▶ Capable of clamping two different sizes workpieces at the same time.
- ▶ Fixed block in the middle can be dismantled for clamping larger workpiece.
- ▶ Suitable on small CNC machining center.
- ▶ Special angle lock design and effectively reduce the workpiece floating.
- ▶ Optional soft jaws are available on request.



Unit:mm

| Order No. | Model  | A   | B   | C  | D  | E  | F   | G   | H    | H1    | H2     | I  | I1 | J  | J1 | J2 | N.W.   |
|-----------|--------|-----|-----|----|----|----|-----|-----|------|-------|--------|----|----|----|----|----|--------|
| 65087     | SDV100 | 100 | 101 | 22 | 80 | 40 | 260 | 240 | 0~35 | 35~70 | 66~100 | 35 | 31 | 18 | 18 | 4  | 18.5kg |

# Milling Machine Accessories

**65000**

LK

LK Tool Machine Vise

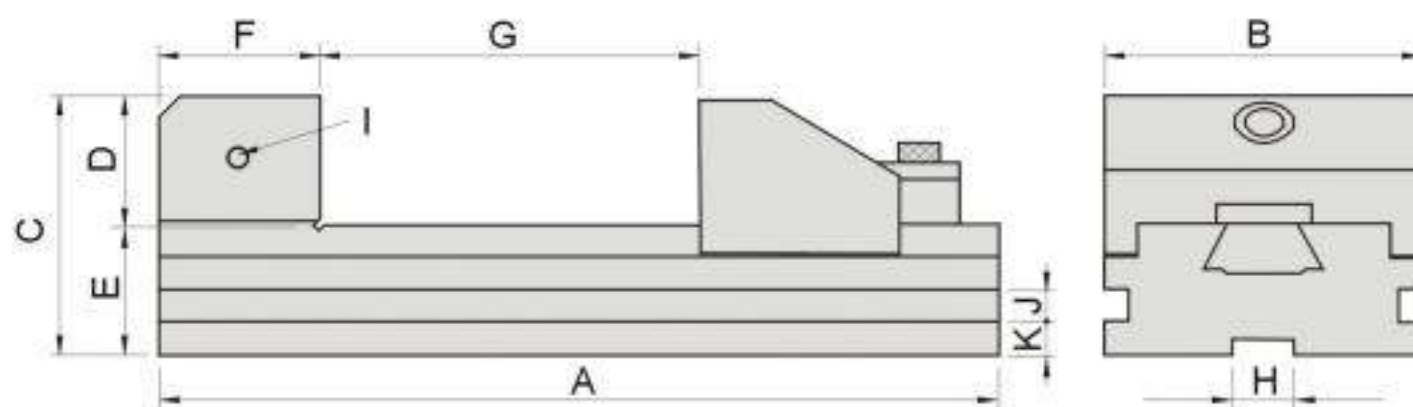
PAT: 170861  
ZL 99 2 48851.6



## Features:

- ▶ Adopting new structure and high rigidity design.
- ▶ Powerful clamping force.
- ▶ Suitable for CNC machines.
- ▶ Material: Tool Steel
- ▶ Hardness: HRC55°-60°
- ▶ Parallelism: 0.003mm/100mm
- ▶ Squareness: 0.004mm/100mm

## Applications:



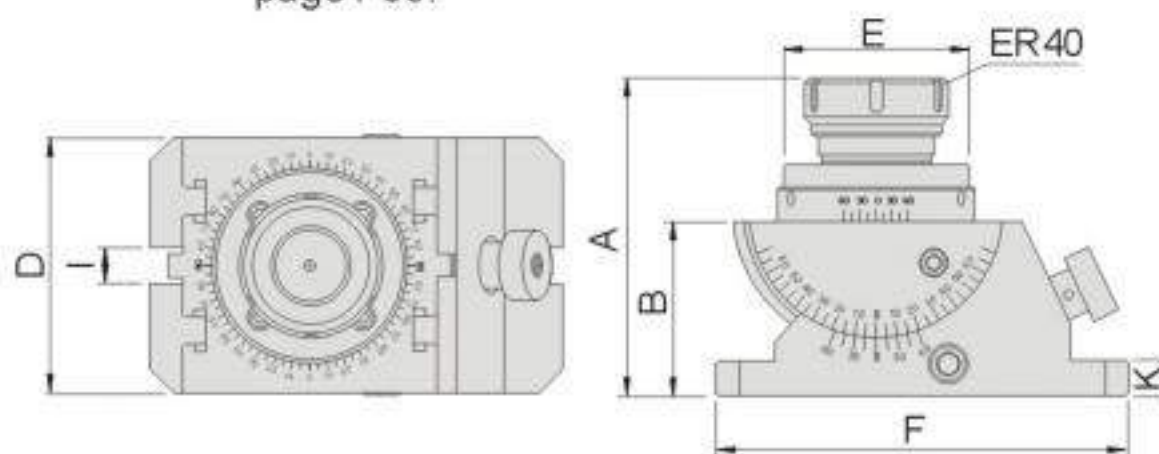
Unit:mm

| Order No.        | Model | A   | B   | C  | D  | E  | F  | G     | H  | I  | J  | K   | N.W.   |
|------------------|-------|-----|-----|----|----|----|----|-------|----|----|----|-----|--------|
| <b>65000-60</b>  | LK60  | 180 | 60  | 55 | 27 | 28 | 35 | 0-80  | 14 | M6 | 6  | 7.5 | 3.0kg  |
| <b>65000-80</b>  | LK80  | 205 | 80  | 64 | 32 | 32 | 40 | 0-100 | 14 | M6 | 8  | 8   | 4.9kg  |
| <b>65000-100</b> | LK100 | 250 | 96  | 82 | 40 | 42 | 45 | 0-125 | 14 | M6 | 10 | 12  | 9.7kg  |
| <b>65000-125</b> | LK125 | 310 | 125 | 88 | 43 | 45 | 50 | 0-150 | 16 | M6 | 12 | 12  | 16.5kg |

**65006**
**CHM-ER40**
**Precision Universal ER Chuck**


### Features:

- ▶ This fixture is composed of two parts: a precision ER collet chuck and a swivel angle plate base, ER collet chuck is capable of revolving 360°.
- ▶ Suitable for applying on milling, grinding and engraving...etc
- ▶ For more info on ER40 collet chuck, please refer to page F85.



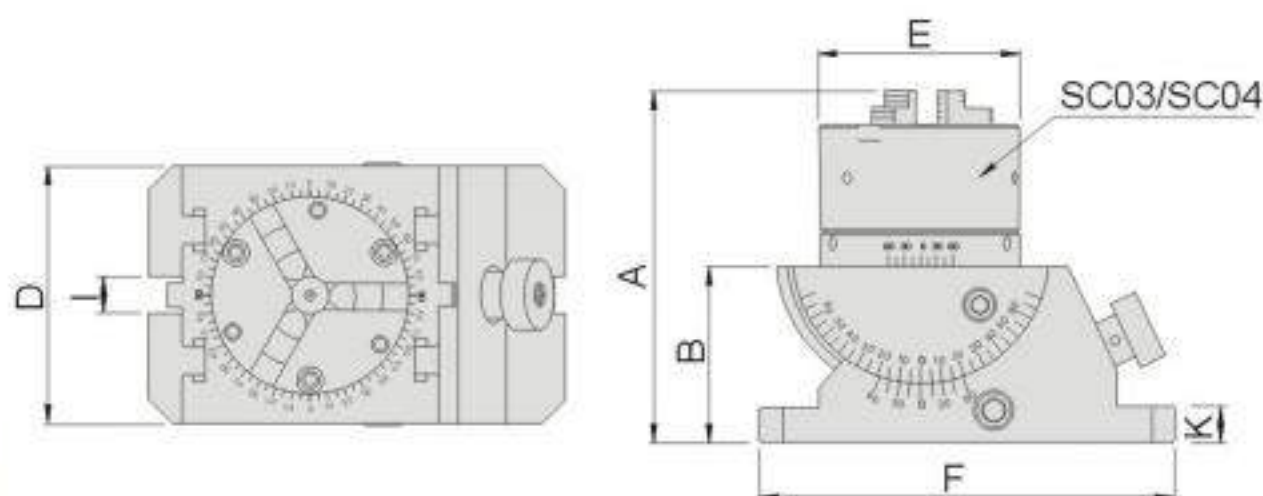
Unit:mm

| Order No. | Model    | A   | B  | D   | E   | F   | I  | K  | N.W. |
|-----------|----------|-----|----|-----|-----|-----|----|----|------|
| 65006     | CHM-ER40 | 138 | 75 | 110 | Ø80 | 178 | 16 | 15 | 11kg |

**65008**
**CHM-SC**
**Precision Universal 3-Jaws Chuck**
**CHM-SC03**


### Features:

- ▶ This fixture is composed of two parts: a 3-Jaw chuck and a swivel angle plate base, 3-Jaw chuck is capable of revolving 360°.
- ▶ Suitable for applying on milling, grinding and engraving...etc
- ▶ For more info on 3-Jaw Chuck, please refer to page H01.

**CHM-SC04**


Unit:mm

| Order No. | Model    | A   | B  | D   | E    | F   | I  | K  | N.W. |
|-----------|----------|-----|----|-----|------|-----|----|----|------|
| 65008-01  | CHM-SC03 | 151 | 75 | 110 | Ø85  | 178 | 16 | 15 | 12kg |
| 65008-02  | CHM-SC04 | 182 | 75 | 110 | Ø112 | 178 | 16 | 15 | 13kg |

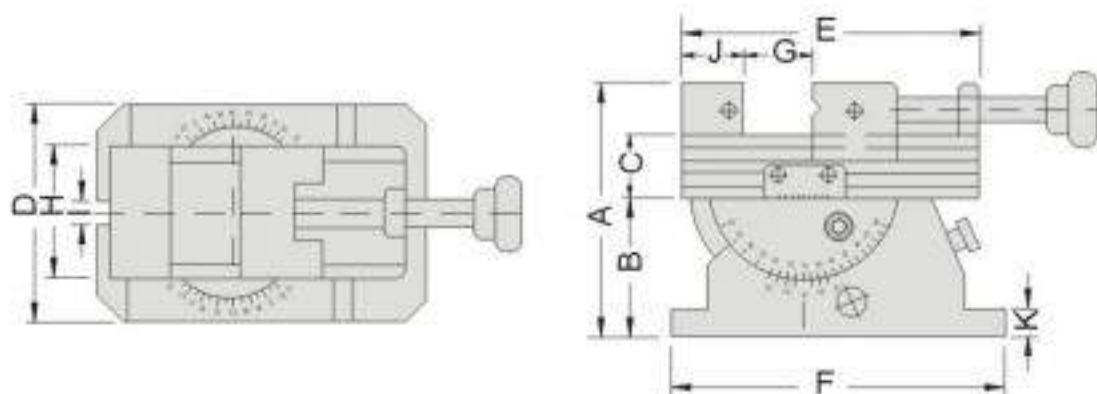
# Milling Machine Accessories

## 65010-80 CHM80 Precision Universal Vise



### Features:

- ▶ This fixture is composed of two parts: a precision vise and a swivel angle plate base, the vise is capable of revolving  $360^{\circ}$ .
- ▶ Tilting angle  $45^{\circ}$  vertically.
- ▶ Suitable for inclined surface, angular drilling machining on various machine applications.



Unit:mm

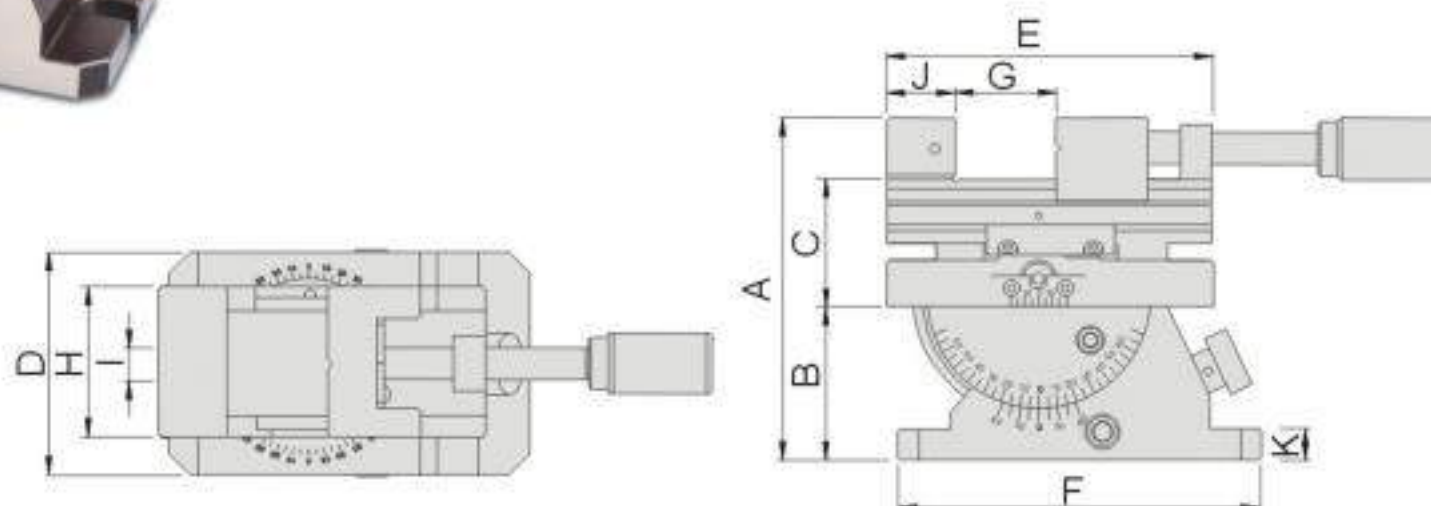
| Order No. | Model | A   | B  | C  | D   | E   | F   | G    | H  | I  | J  | K  | N.W. |
|-----------|-------|-----|----|----|-----|-----|-----|------|----|----|----|----|------|
| 65010-80  | CHM80 | 138 | 75 | 32 | 110 | 160 | 178 | 0~80 | 70 | 16 | 33 | 15 | 14kg |

## 65010-100 CHML50 Precision 3D Universal Vise



### Features:

- ▶ This fixture is composed of two parts: a precision sine vise and a swivel angle plate base, the vise is capable of revolving  $360^{\circ}$ .
- ▶ Tilting angle  $45^{\circ}$  vertically.
- ▶ Suitable for inclined surface, angular drilling machining on various machine applications.
- ▶ With compound sine vise, it can be used for 3D machining.



Unit:mm

| Order No. | Model  | A   | B  | C  | D   | E   | F   | G    | H  | I  | J  | K  | N.W. |
|-----------|--------|-----|----|----|-----|-----|-----|------|----|----|----|----|------|
| 65010-100 | CHML50 | 169 | 75 | 63 | 110 | 160 | 178 | 0~80 | 73 | 16 | 33 | 15 | 16kg |

**65010-125**
**CHM125**
**Precision Universal Vice**

CHM125

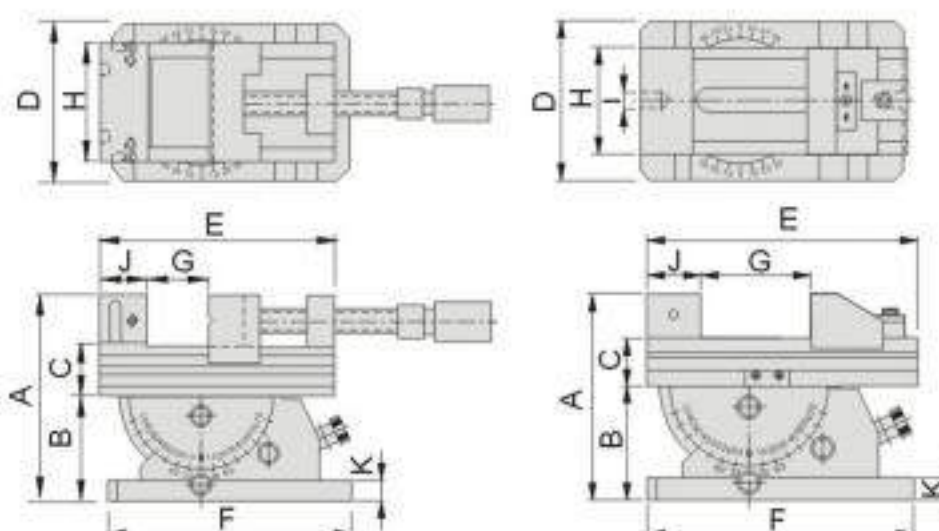


CHM-PGV125



### Features:

- ▶ This fixture is composed of two parts: a precision vise and a swivel angle plate base, the vise is capable of revolving 360°.
- ▶ Tilting angle 45° vertically.
- ▶ Suitable for inclined surface, angular drilling
- ▶ machining on various machine applications.



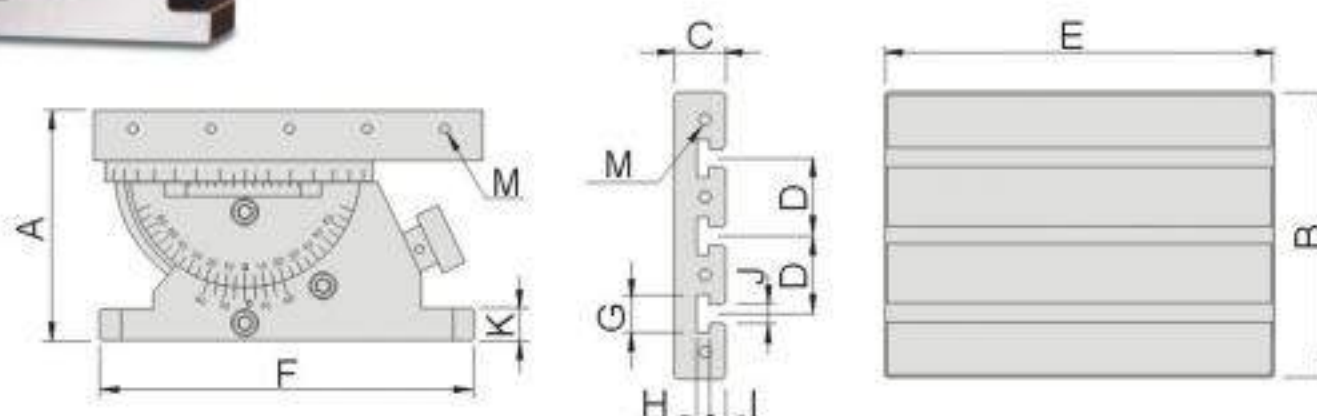
Unit:mm

| Order No.  | Model      | A   | B   | C  | D   | E   | F   | G     | H   | I  | J  | K  | N.W. |
|------------|------------|-----|-----|----|-----|-----|-----|-------|-----|----|----|----|------|
| 65010-125  | CHM125     | 216 | 128 | 45 | 180 | 310 | 300 | 0~150 | 125 | 18 | 50 | 25 | 53kg |
| 65010-125A | CHM-PGV125 | 218 | 128 | 50 | 180 | 300 | 300 | 0~165 | 125 | 18 | 60 | 25 | 57kg |

**65010-300**
**CHM-HT300**
**Precision Universal Tilting Table**


### Features:

- ▶ This fixture is composed of two parts: a table with T-slot and a swivel angle plate base, the table is capable of revolving 360°.
- ▶ Table with T-slot assembly with swivel base for rotation and angle adjustment.
- ▶ Suitable for inclined surface, angular drilling machining on various machine applications.



Unit:mm

| Order No. | Model     | A   | B   | C  | D  | E   | F   | G  | H  | I  | J  | K  | M  | Clamp | N.W. |
|-----------|-----------|-----|-----|----|----|-----|-----|----|----|----|----|----|----|-------|------|
| 65010-300 | CHM-HT300 | 183 | 220 | 40 | 60 | 300 | 300 | 28 | 10 | 12 | 14 | 25 | M8 | M16   | 47kg |

# Milling Machine Accessories

**65040**

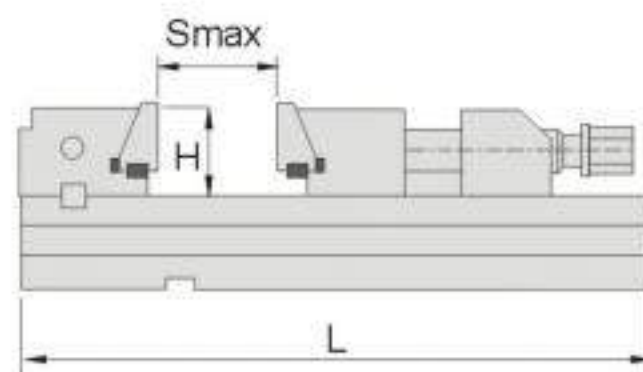
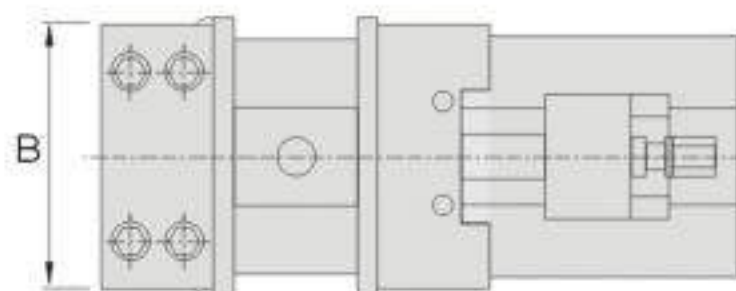
GL

Precision Modular Vice



## Features:

- ▶ Modular design with quick change in components.
- ▶ Widely used in machining centers.
- ▶ Material : Alloy Steel, HRC58°-62°
- ▶ Parallelism: within 0.005/100mm
- ▶ Squareness: within 0.005/100mm
- ▶ Swivel base is optional.



Unit:mm

| Order No. | Model    | B   | H  | Smax | L    | Clamping force (Kg) |
|-----------|----------|-----|----|------|------|---------------------|
| 65040-01  | GL100-I  | 100 | 30 | 100  | 270  | 3000                |
| 65040-02  | GL125-I  | 125 | 40 | 150  | 345  | 3000                |
| 65040-03  | GL150A-I | 150 | 50 | 200  | 420  | 5000                |
| 65040-04  | GL150B-I | 150 | 50 | 300  | 520  | 5000                |
| 65040-05  | GL150C-I | 150 | 50 | 400  | 620  | 5000                |
| 65040-06  | GL175A-I | 175 | 60 | 200  | 455  | 6000                |
| 65040-07  | GL175B-I | 175 | 60 | 300  | 555  | 6000                |
| 65040-08  | GL175C-I | 175 | 60 | 400  | 655  | 6000                |
| 65040-09  | GL175D-I | 175 | 60 | 500  | 755  | 6000                |
| 65040-10  | GL175E-I | 175 | 60 | 600  | 855  | 6000                |
| 65040-11  | GL200A-I | 200 | 65 | 200  | 495  | 10000               |
| 65040-12  | GL200B-I | 200 | 65 | 300  | 595  | 10000               |
| 65040-13  | GL200C-I | 200 | 65 | 400  | 695  | 10000               |
| 65040-14  | GL200D-I | 200 | 65 | 500  | 795  | 10000               |
| 65040-15  | GL200E-I | 200 | 65 | 600  | 895  | 10000               |
| 65040-16  | GL300A-I | 300 | 80 | 200  | 535  | 12000               |
| 65040-17  | GL300B-I | 300 | 80 | 300  | 635  | 12000               |
| 65040-18  | GL300C-I | 300 | 80 | 400  | 735  | 12000               |
| 65040-19  | GL300D-I | 300 | 80 | 500  | 835  | 12000               |
| 65040-20  | GL300E-I | 300 | 80 | 600  | 935  | 12000               |
| 65040-21  | GL300F-I | 300 | 80 | 700  | 1035 | 12000               |
| 65040-22  | GL300G-I | 300 | 80 | 800  | 1135 | 12000               |

65060/1/2

GQ

Separate Precision Modular Vises

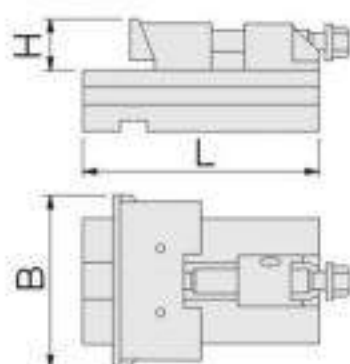


### Features:

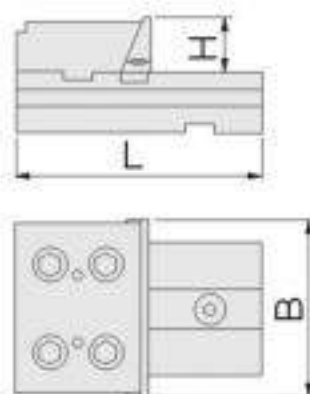
- Widely used in machining centers, CNC milling machine, grinding machines.
- Suitable for clamping large workpiece or adjusts the position of clamping, according to the sizes of the workpiece.
- Material: High Quality Alloy Steel, HRC58°-62°
- Parallelism: within 0.005/100mm
- Sqaureness: within 0.005/100mm



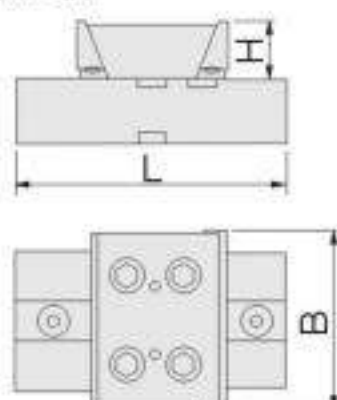
GQ-I  
MOVABLE JAW SECTION



GQ-II  
FIXED JAW SECTION



GQ-III  
DOUBLE FIXED JAW SECTION



Unit:mm

| Order No. | Model     | L   | B   | H  |
|-----------|-----------|-----|-----|----|
| 65060-01  | GQ84100-I | 140 | 100 | 30 |
| 65060-02  | GQ84125-I | 160 | 125 | 40 |
| 65060-03  | GQ84150-I | 230 | 150 | 50 |
| 65060-04  | GQ84175-I | 240 | 175 | 60 |
| 65060-05  | GQ84200-I | 300 | 200 | 65 |

Unit:mm

| Order No. | Model      | L   | B   | H  |
|-----------|------------|-----|-----|----|
| 65061-01  | GQ84100-II | 140 | 100 | 30 |
| 65061-02  | GQ84125-II | 160 | 125 | 40 |
| 65061-03  | GQ84150-II | 230 | 150 | 50 |
| 65061-04  | GQ84175-II | 240 | 175 | 60 |
| 65061-05  | GQ84200-II | 300 | 200 | 65 |

Unit:mm

| Order No. | Model       | L   | B   | H  |
|-----------|-------------|-----|-----|----|
| 65062-01  | GQ84100-III | 140 | 100 | 30 |
| 65062-02  | GQ84125-III | 160 | 125 | 40 |
| 65062-03  | GQ84150-III | 230 | 150 | 50 |
| 65062-04  | GQ84175-III | 240 | 175 | 60 |
| 65062-05  | GQ84200-III | 300 | 200 | 65 |

# Milling Machine Accessories

**65080**

**SCV90**

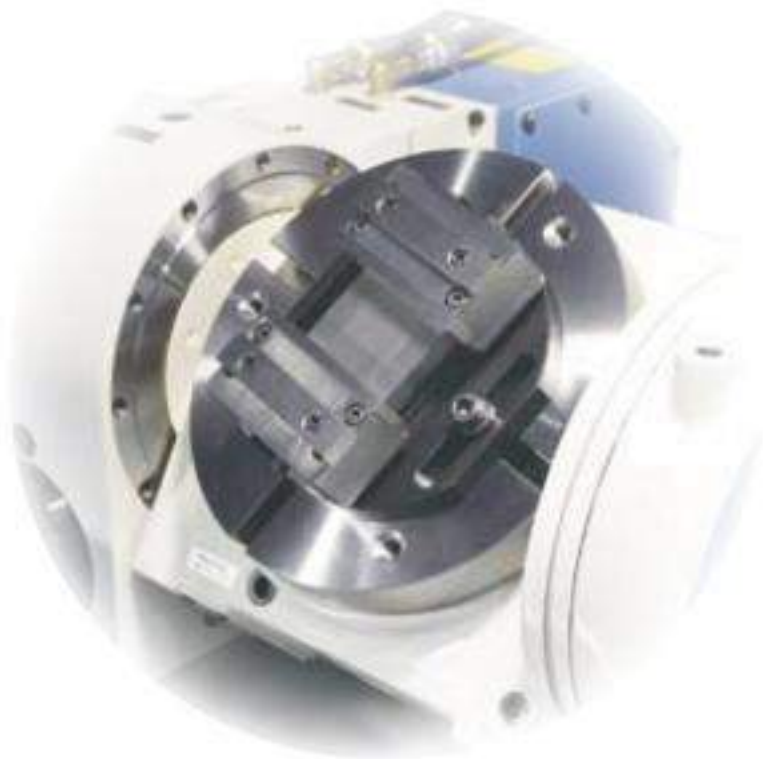
**Self Centering Vise**



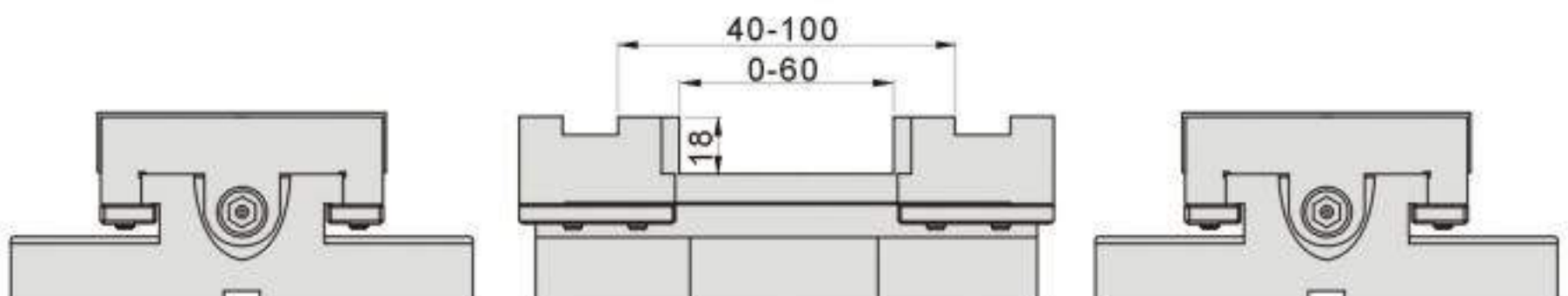
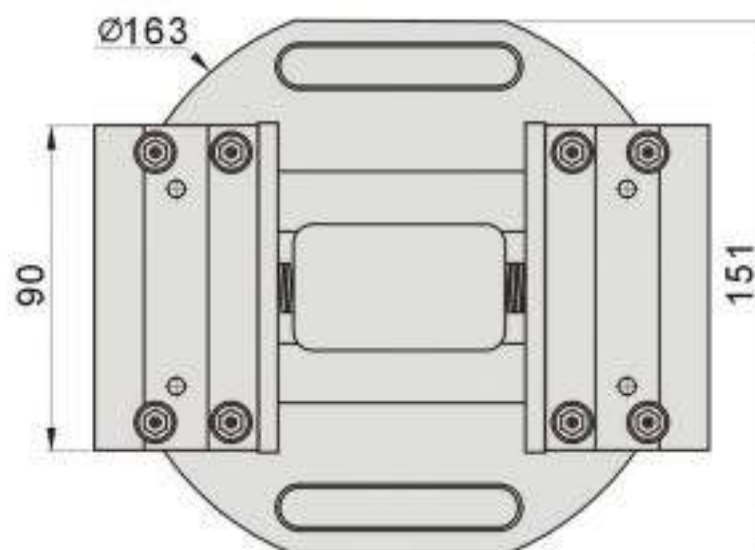
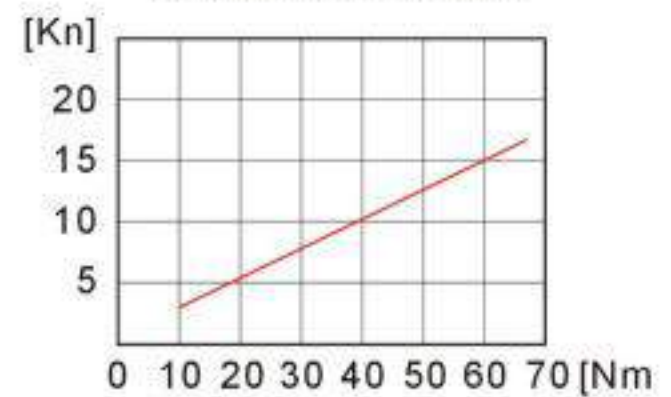
N.W.8kg

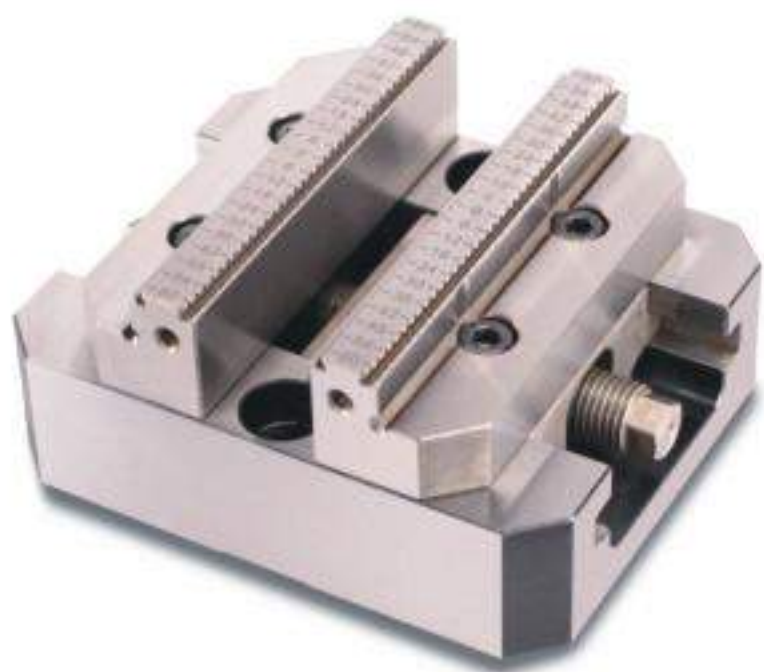
## Features:

- ▶ Suitable for 4<sup>th</sup>, 5<sup>th</sup> axis, CNC rotary table and horizontal/vertical CNC milling machine.
- ▶ Repeating center accuracy is  $\pm 0.01\text{mm}$ .
- ▶ Body is made of alloy steel and the rail is with high frequency heat treatment above HRC45° which achieve high wear resistance.
- ▶ Jaw face adopting full steel with heat treatment reach over HRC 55°, interchangeability is flexible.
- ▶ Lock tight system to prevent floating for better efficiency.



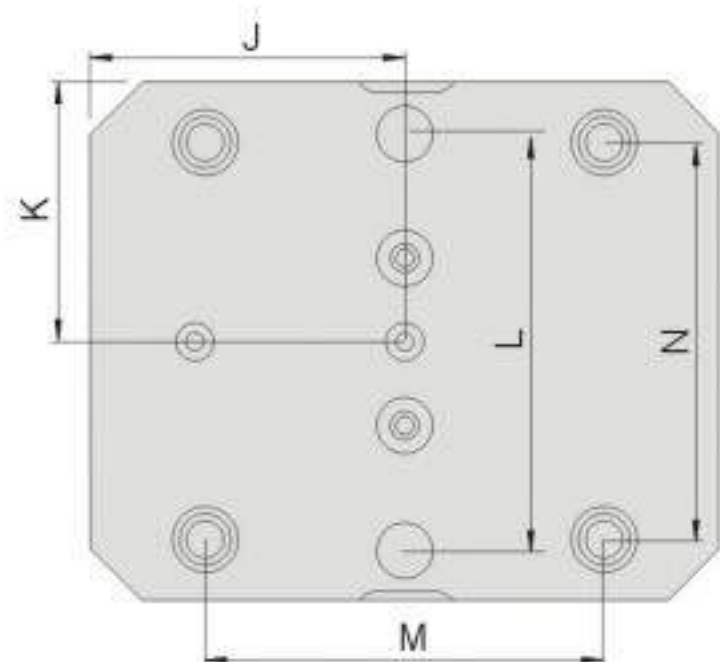
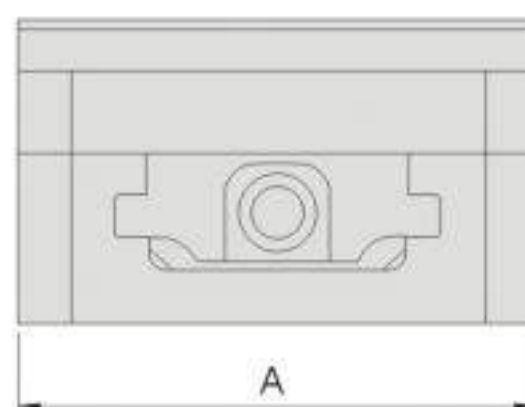
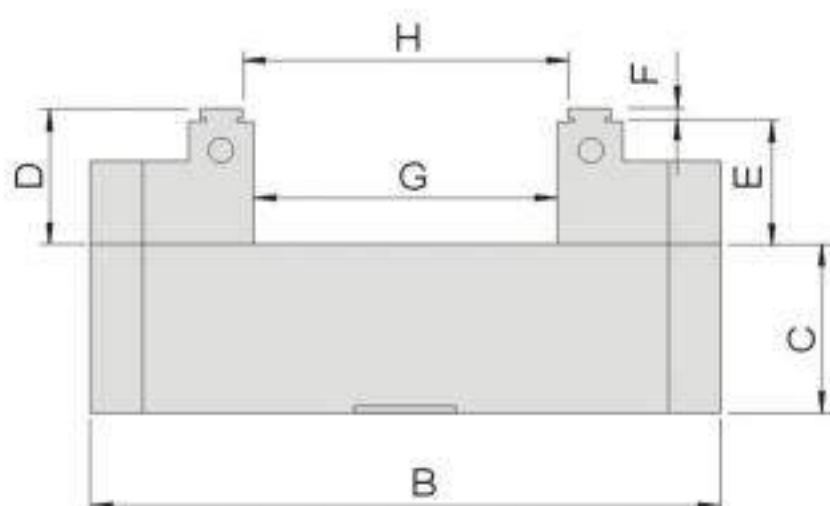
CLAMPING CURVE



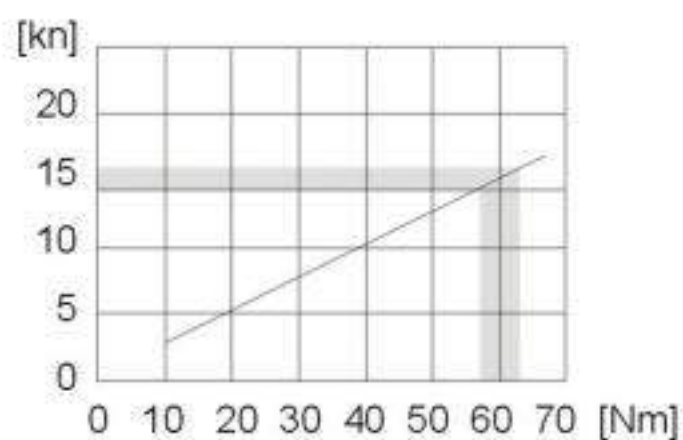
**65085**
**scv**
**Self Centering Vise**


### Features:

- ▶ Suitable for 4<sup>th</sup>, 5<sup>th</sup> axis, CNC rotary table and horizontal/vertical CNC milling machine.
- ▶ Repeating center accuracy is  $\pm 0.01\text{mm}$ .
- ▶ Body is made of alloy steel and the rail is with high frequency heat treatment above HRC45° which achieve high wear resistance.
- ▶ Jaw face adopting full steel with heat treatment reach over HRC 55°, interchangeability is flexible.
- ▶ Lock tight system to prevent floating for better efficiency.



CLAMPING CURVE



Unit:mm

| Order No. | Model    | A   | B   | C  | D  | E  | F | G   | H   | J     | K    | L   | M  | N  | N.W. |
|-----------|----------|-----|-----|----|----|----|---|-----|-----|-------|------|-----|----|----|------|
| 65085-01  | SCV1275  | 127 | 127 | 42 | 33 | 30 | 3 | 46  | 51  | 63.5  | 63.5 | 101 | 96 | 96 | 7kg  |
| 65085-02  | SCV1276  |     | 153 |    |    |    |   | 72  | 79  | 76.5  |      |     |    |    | 8kg  |
| 65085-03  | SCV1278  |     | 210 |    |    |    |   | 129 | 135 | 105   |      |     |    |    | 9kg  |
| 65085-04  | SCV12710 |     | 255 |    |    |    |   | 175 | 182 | 127.5 |      |     |    |    | 10kg |

# Milling Machine Accessories

**65086**

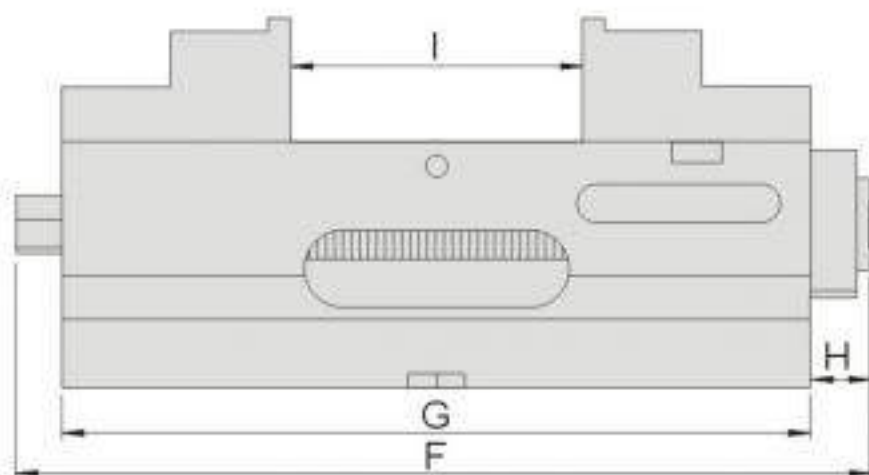
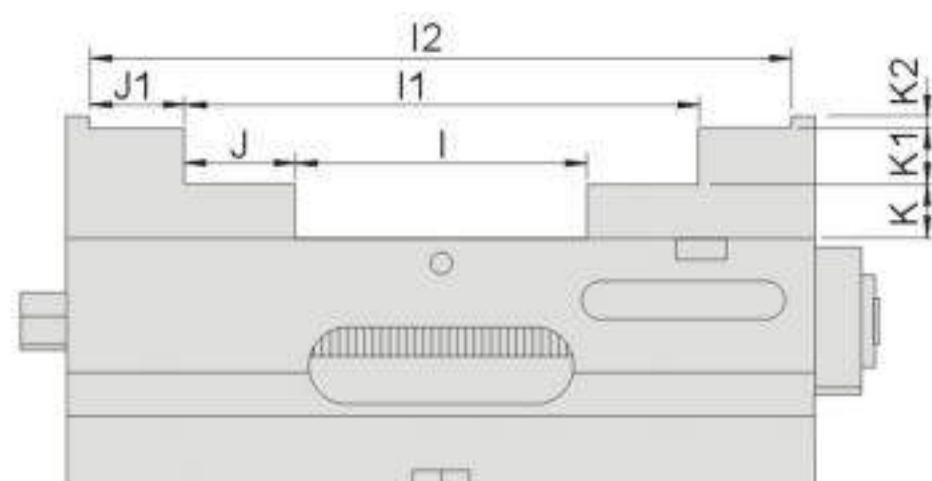
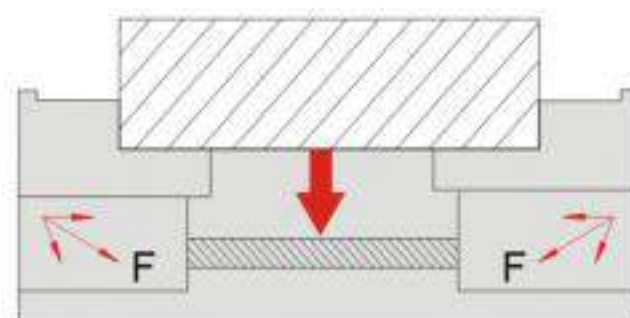
scv

Self Centering Vise

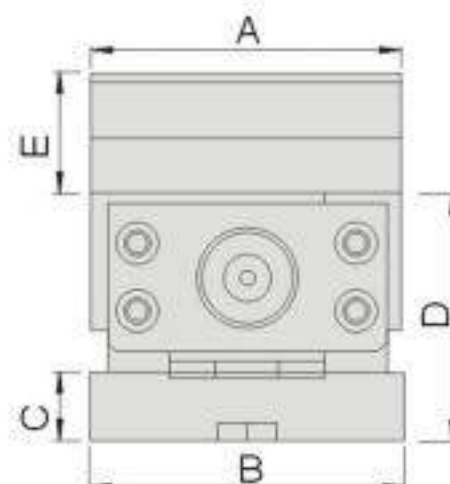
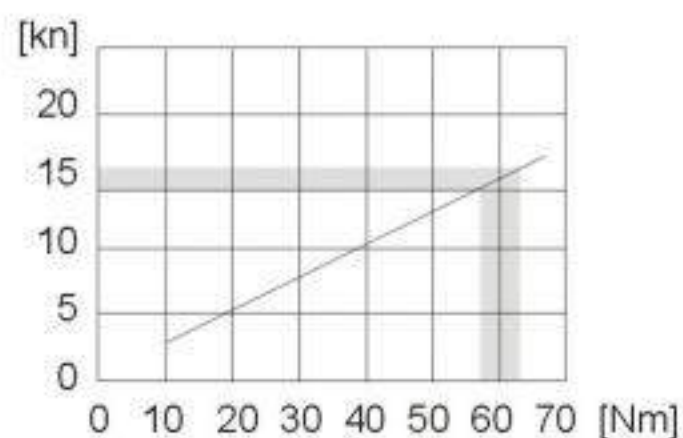


## Features :

- ▶ Suitable for 4<sup>th</sup>, 5<sup>th</sup> axis, CNC rotary table and horizontal/vertical CNC milling machine.
- ▶ Repeating center accuracy is  $\pm 0.01\text{mm}$ .
- ▶ Body is made of FCD60 and the rail is with high frequency heat treatment above HRC45° which achieve high wear resistance.
- ▶ Jaw face adopting full steel with heat treatment reach over HRC 55°, interchangeability is flexible.
- ▶ Lock tight system to prevent floating for better efficiency.



CLAMPING CURVE



Unit:mm

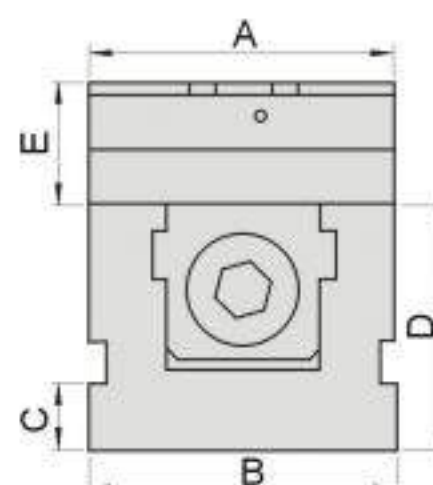
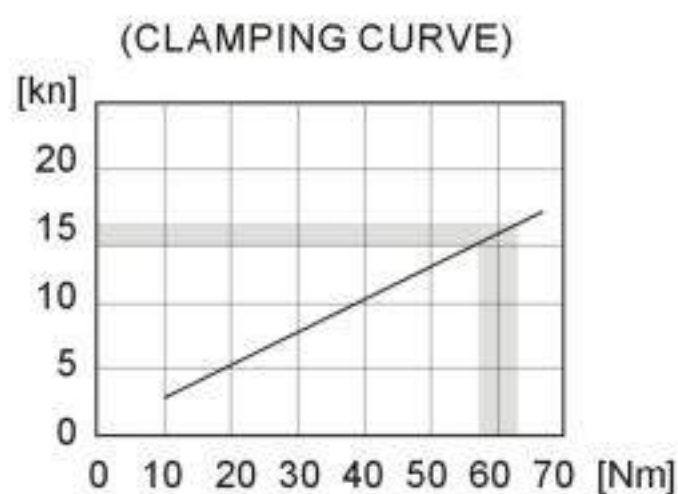
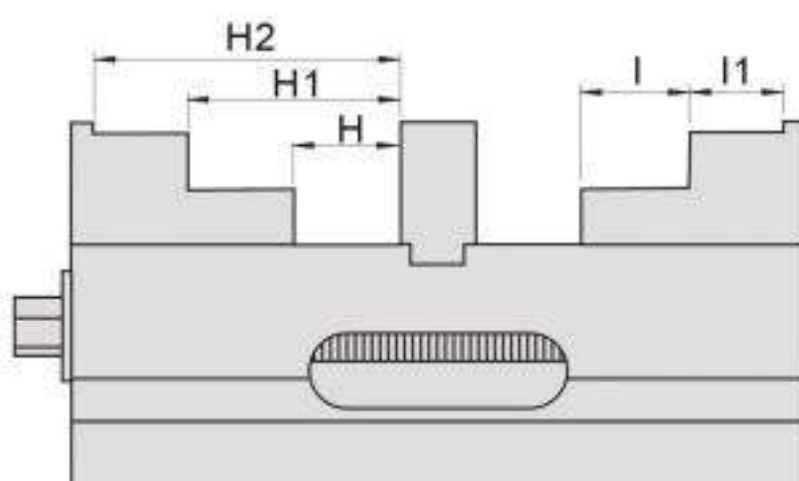
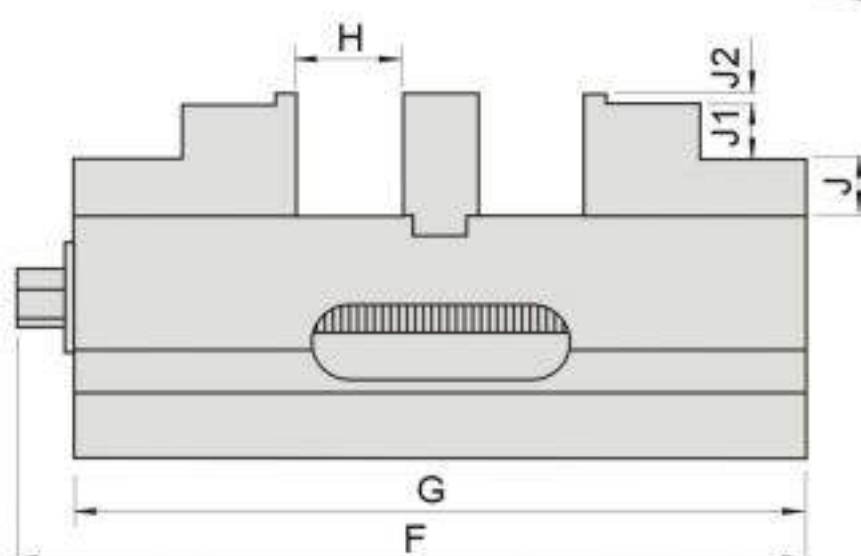
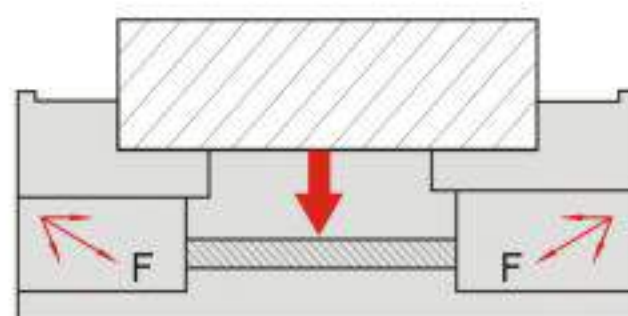
| Order No. | Model  | A   | B   | C  | D   | E  | F   | G   | H  | I     | I1     | I2      | J    | J1 | K    | K1   | K2 | N.W.   |
|-----------|--------|-----|-----|----|-----|----|-----|-----|----|-------|--------|---------|------|----|------|------|----|--------|
| 65086-01  | SCV60  | 59  | 60  | 18 | 60  | 25 | 143 | 120 | 13 | 0~50  | 38~85  | --      | 17.5 | -- | 12.5 | 12.5 | -- | 4.5kg  |
| 65086-02  | SCV100 | 100 | 101 | 22 | 80  | 40 | 260 | 240 | 20 | 0~90  | 70~160 | 134~222 | 35   | 31 | 18   | 18   | 4  | 17.5kg |
| 65086-03  | SCV160 | 160 | 161 | 22 | 105 | 55 | 440 | 370 | 70 | 0~200 | 86~285 | --      | 42.5 | -- | 27.5 | 27.5 | -- | 47.5kg |

# 65087 SDV100 Double-Lock Mechanical Vise



## Features:

- ▶ Capable of clamping two different sizes workpieces at the same time.
- ▶ Fixed block in the middle can be dismantled for clamping larger workpiece.
- ▶ Suitable on small CNC machining center.
- ▶ Special angle lock design and effectively reduce the workpiece floating.
- ▶ Optional soft jaws are available on request.



Unit:mm

| Order No. | Model  | A   | B   | C  | D  | E  | F   | G   | H    | H1    | H2     | I  | I1 | J  | J1 | J2 | N.W.   |
|-----------|--------|-----|-----|----|----|----|-----|-----|------|-------|--------|----|----|----|----|----|--------|
| 65087     | SDV100 | 100 | 101 | 22 | 80 | 40 | 260 | 240 | 0~35 | 35~70 | 66~100 | 35 | 31 | 18 | 18 | 4  | 18.5kg |

# Milling Machine Accessories

**65088**

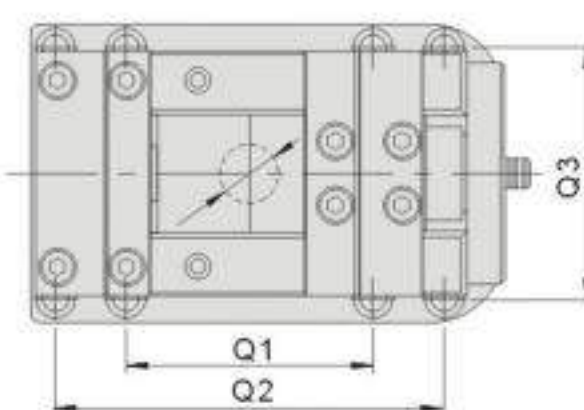
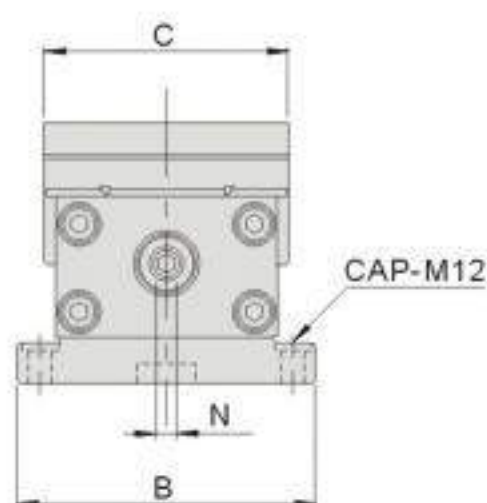
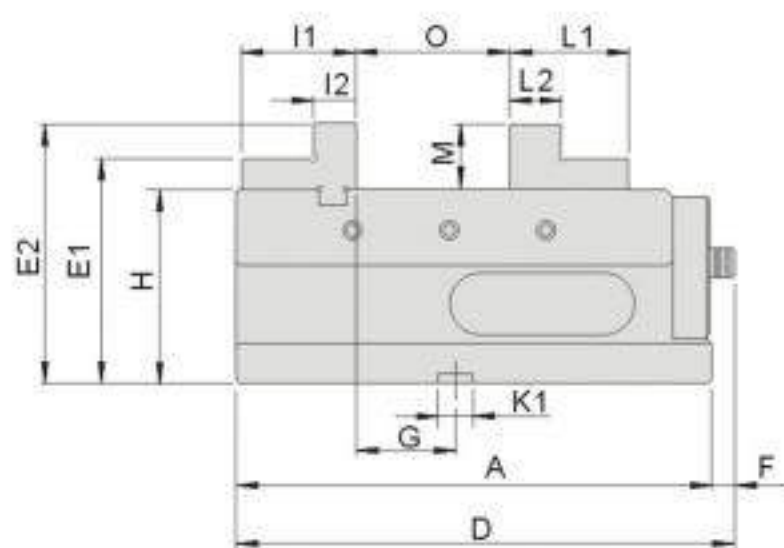
**GEX-125**

**5-Axis Mechanical Power Vice**



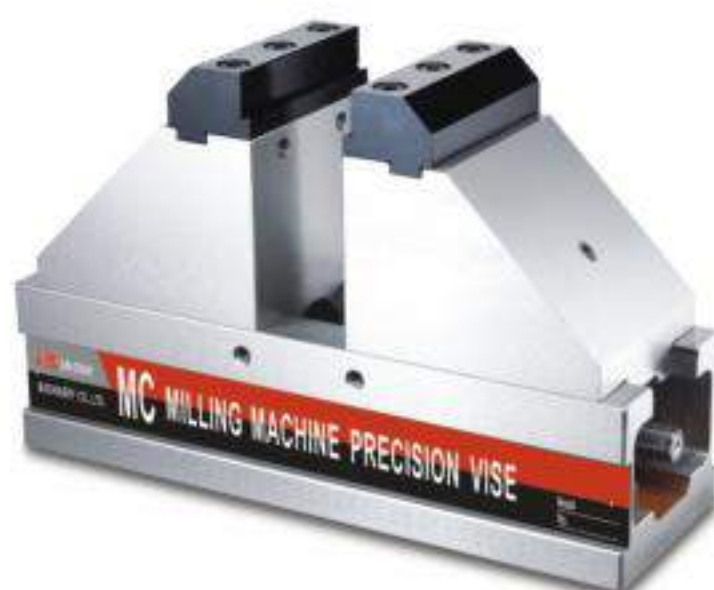
## Features:

- ▲ Built-in mechanical booster, maximum steady clamping force up to 40KN, suitable for working on all kinds of hard and soft workpiece.
- ▲ Compact size well fit with 5-Axis MC machine center, horizontal and vertical machine center. It can also work with rotary device and relevant machine.
- ▲ Patented Mechanical Booster is fully sealed against dust, chips and cutting fluid for increasing durability.
- ▲ Unique Anti-Lift mechanism ensures the workpiece does not deflect and lift.
- ▲ SKS3 steel has applied to the body and the slide face is with high frequency heat treatment with above Hs60° in order to enhance the accuracy and the wear resistance.
- ▲ Jaw is made of S50C with carburising heat treated the hardness is above HRC54°.



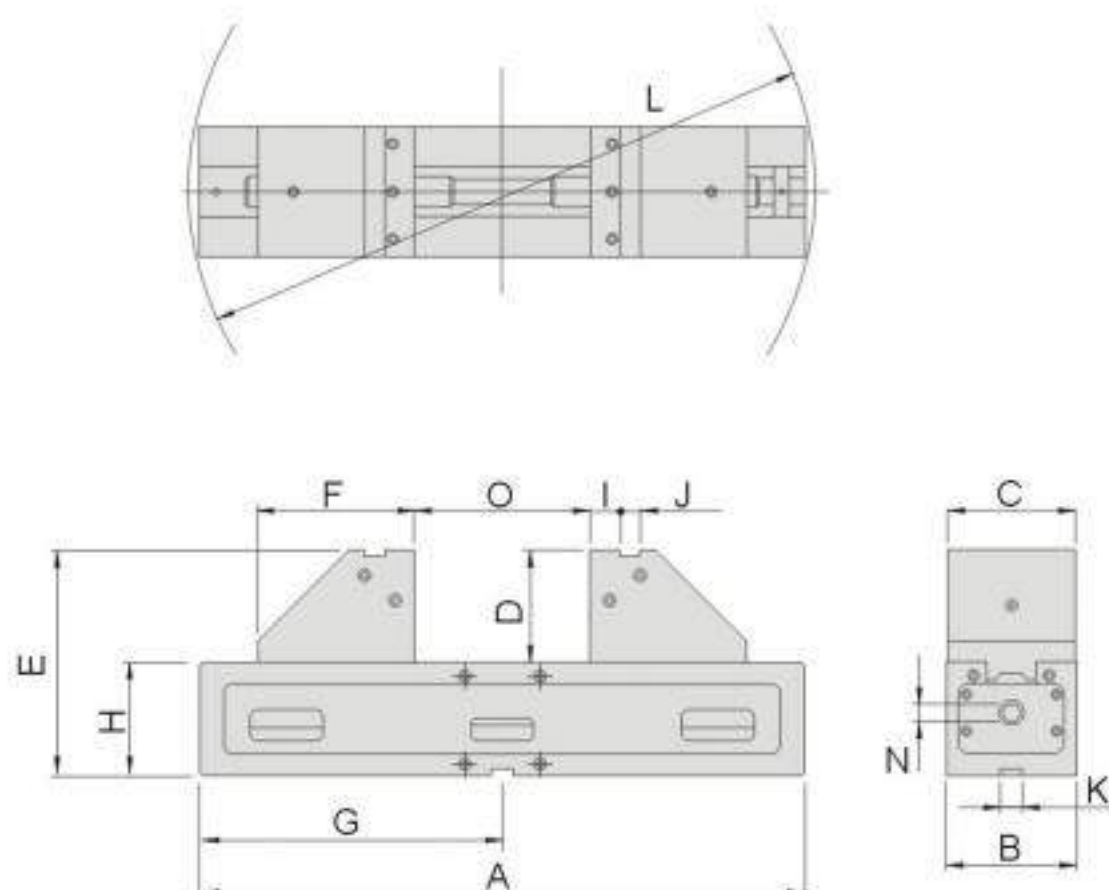
| Unit:mm   |         |     |     |     |     |    |    |    |     |    |    |    |
|-----------|---------|-----|-----|-----|-----|----|----|----|-----|----|----|----|
| Order No. | Model   | A   | B   | C   | D   | E  | F  | G  | H   | I1 | I2 | K1 |
| 65088     | GEX-125 | 245 | 154 | 126 | 257 | 34 | 12 | 51 | 100 | 59 | 22 | 18 |

| Order No. | Model   | K2  | L1 | L2 | N  | O   | Q1  | Q2  | Q2  | Clamping Force | N.W. |
|-----------|---------|-----|----|----|----|-----|-----|-----|-----|----------------|------|
| 65088     | GEX-125 | Ø30 | 61 | 26 | 10 | 102 | 127 | 200 | 130 | 40KN           | 20kg |

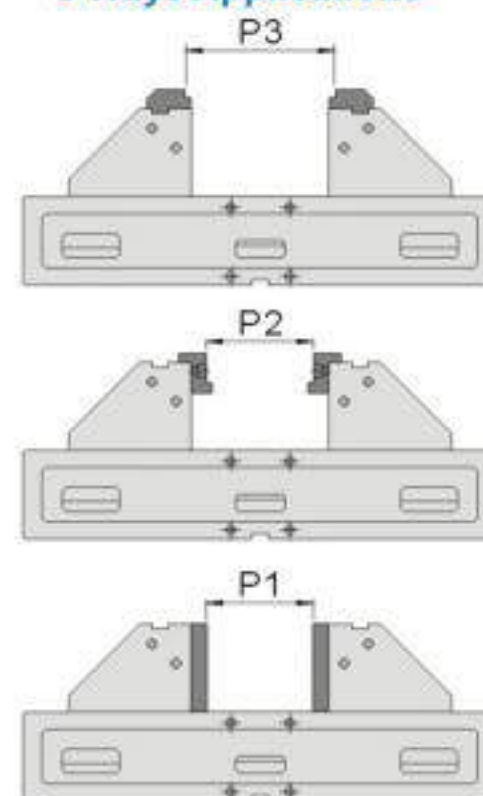
**65089**
**ALT**
**Anit-lift 5-Axis Machine Vise**


### Features:

- ▶ Speically designed for 5-axis machining center and with higher structure to avoid interference of spindle.
- ▶ Anti-Lift mechanism & semi-spherical segment ensures workpiece does not lift and prevent workpiece loose from machining vibration.
- ▶ Both jaws are able to move simultaneously to shorten the distance.
- ▶ Rigid structure: FCD60 (vise body), & Alloy steel (Jaws) & slide surface is well hardened to maintain the accuracy as well as the wear resistance.
- ▶ Tolerance of center of workpiece clamp position and vise body within 0.01mm.



### 3 Ways Applications



| Model    | P1    | P2     | P3     |
|----------|-------|--------|--------|
| ALT-100S | -     | -      | 10~40  |
| ALT-100M | 0~44  | 12~44  | 10~84  |
| ALT-100L | 0~200 | 12~200 | 10~210 |

Unit:mm

| Order No. | Model    | A   | B   | C   | D  | E   | F   | G   | H  | I  | J  | K  | L   | N  | O      | Force | N.W. |
|-----------|----------|-----|-----|-----|----|-----|-----|-----|----|----|----|----|-----|----|--------|-------|------|
| 65089-01  | ALT-100S | 284 |     |     |    | 175 |     | 140 | 85 |    |    |    | 300 |    | 0~30   |       | 17kg |
| 65089-02  | ALT-100M | 324 | 104 | 102 | 90 | 175 | 125 | 162 | 85 | 24 | 16 | 18 | 350 | 14 | 0~74   | 20KN  | 20kg |
| 65089-03  | ALT-100L | 484 |     |     |    | 180 |     | 242 | 90 |    |    |    | 500 |    | 10~232 |       | 30kg |

# Milling Machine Accessories

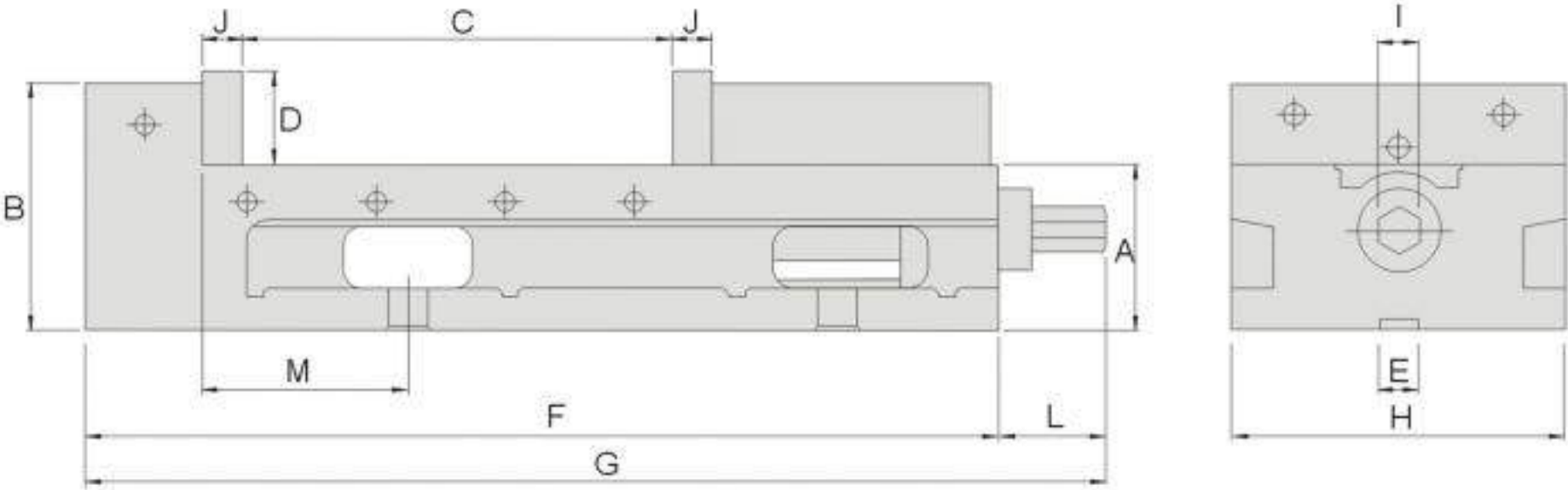
65100

GH

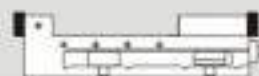
Super-open Angle Vice

### Features :

- ▶ Large opening design.
- ▶ One piece body design with precisely ground on both sides.
- ▶ Angle lock design ensure no floating when clamping.
- ▶ Fixed height and capable for simultaneously application.



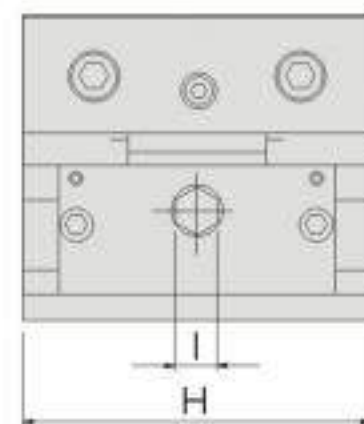
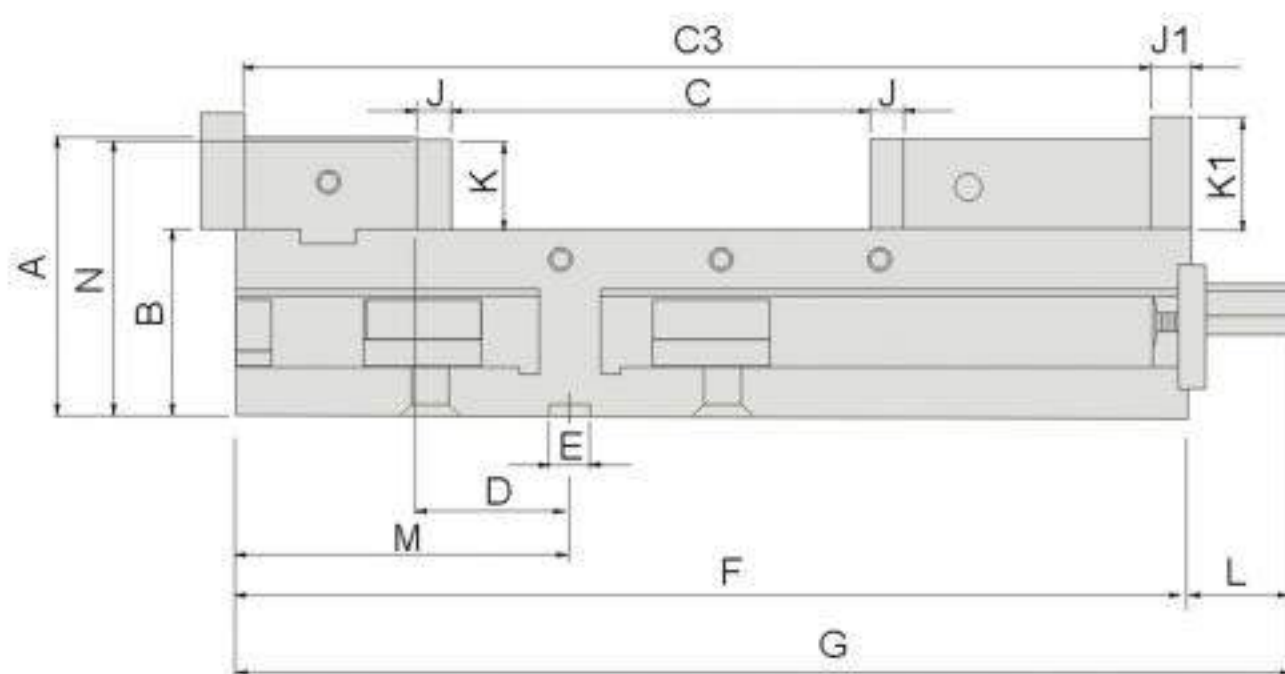
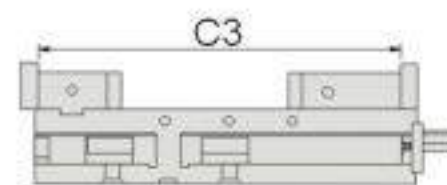
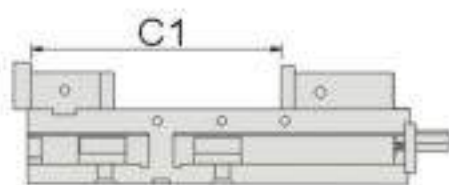
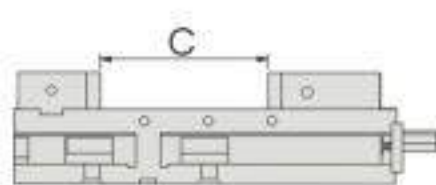
|           |                      |     |     |     |    |    |     |     |     |    |    |    |     | Unit:mm |
|-----------|----------------------|-----|-----|-----|----|----|-----|-----|-----|----|----|----|-----|---------|
| Order No. | Model                | A   | B   | C   | D  | E  | F   | G   | H   | I  | J  | L  | M   | N.W.    |
| 65100-01  | GH-6" Super-Open 8"  | 121 | 115 | 205 | 44 | 18 | 425 | 475 | 156 | 19 | 18 | 50 | 95  | 30kg    |
| 65100-02  | GH-8" Super-Open 12" | 120 | 145 | 310 | 63 | 18 | 560 | 610 | 202 | 19 | 18 | 50 | 100 | 60kg    |

| Order No. | Model                |  |    |  |                      |  |                     |  |                     |
|-----------|----------------------|-------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------|---------------------|
| 65100-01  | GH-6" Super-Open 8"  | 200                                                                                 | 8  | 273                                                                                   | 102 <sup>23/25</sup> | 348                                                                                   | 13 <sup>23/25</sup> | 421                                                                                   | 16 <sup>21/25</sup> |
| 65100-02  | GH-8" Super-Open 12" | 300                                                                                 | 12 | 393                                                                                   | 15 <sup>3/4</sup>    | 462                                                                                   | 14 <sup>12/25</sup> | 555                                                                                   | 22 <sup>1/5</sup>   |

**65110**
**HVG**
**Super Precision Machine Vise**

### Features :

- ▶ Large opening design.
- ▶ Made FCD60 Ductile Iron with higher accuracy.
- ▶ Angle lock design ensure no floating when clamping.
- ▶ Fixed height and capable for simultaneously application.
- ▶ Suitable for conventional milling machine and CNC milling machine.



Unit:mm

| Order No. | Model  | A   | B  | C   | C1  | C2  | C3  | D  | E  | F   | G   |
|-----------|--------|-----|----|-----|-----|-----|-----|----|----|-----|-----|
| 65110-01  | HVG-6" | 120 | 80 | 187 | 276 | 307 | 397 | 68 | 18 | 419 | 463 |
| 65110-02  | HVG-8" | 136 | 84 | 325 | 430 | 460 | 550 | 76 | 18 | 556 | 622 |

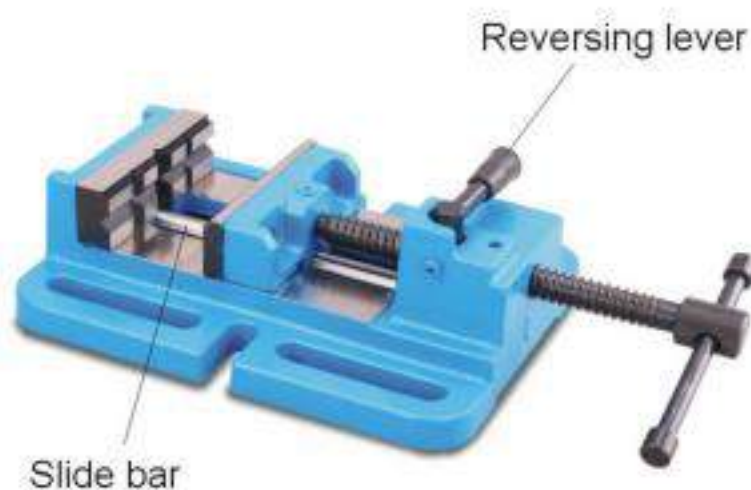
| Order No. | Model  | H   | I  | J  | J1 | K    | K1 | L  | M   | N     | N.W. |
|-----------|--------|-----|----|----|----|------|----|----|-----|-------|------|
| 65110-01  | HVG-6" | 154 | 19 | 15 | 18 | 39.5 | 50 | 44 | 154 | 119.5 | 37kg |
| 65110-02  | HVG-8" | 202 | 19 | 18 | 21 | 51.5 | 60 | 66 | 168 | 135.5 | 60kg |

# Milling Machine Accessories

**65118**

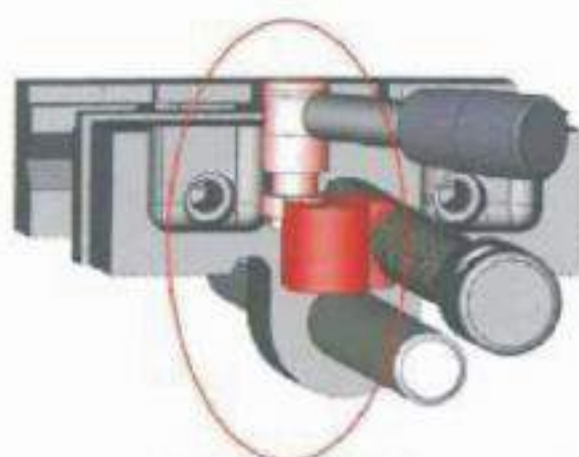
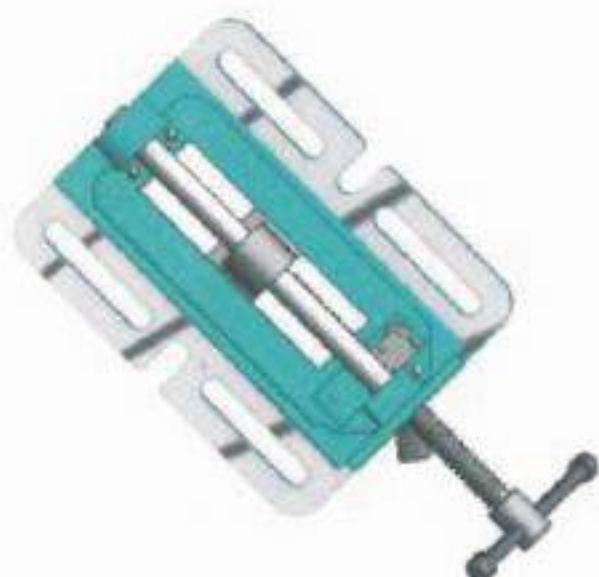
**HDC100**

**Super Quick Jaw Vise**

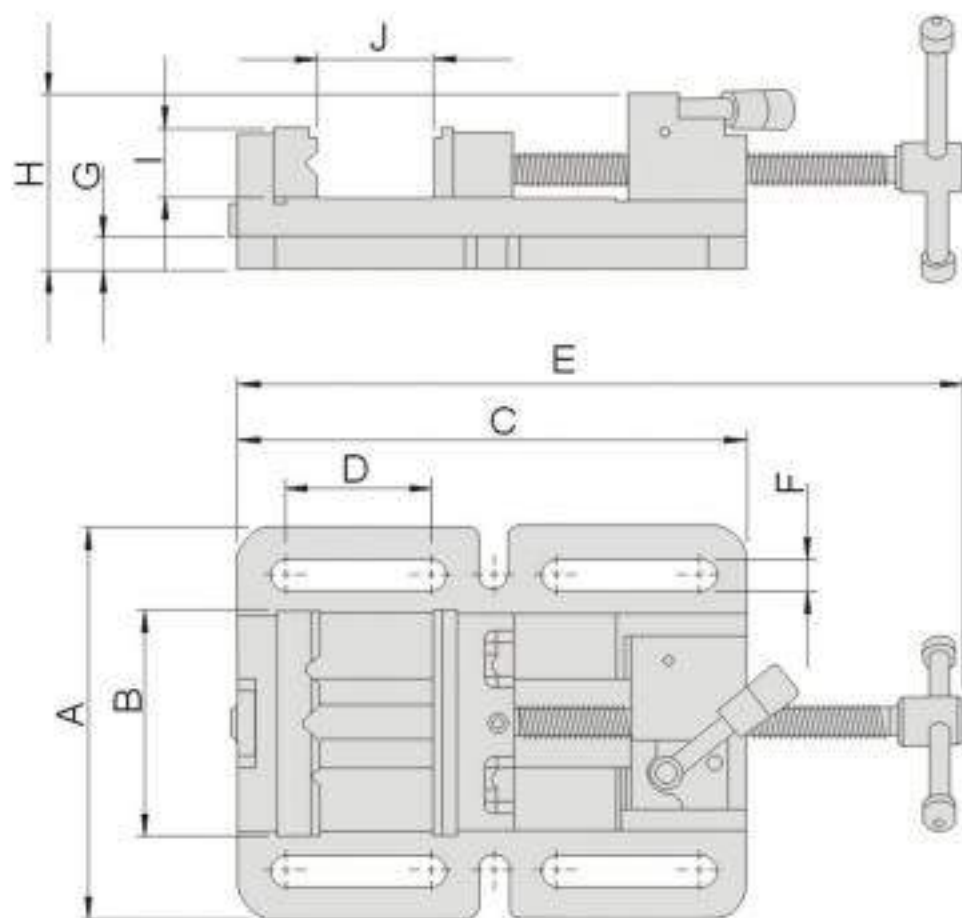


## Features:

- ▶ Suitable for clamping work piece on drill press machine or milling machine.
- ▶ Quick motion mechanism design makes clamping and releasing work piece promptly by swiveling the reversing lever.
- ▶ Slide bar design makes work piece is firmly fixed by jaw pair without any inclined situation of the jaws.
- ▶ Designed with solid structure, main body is made of FC15, assemble a pair of heat treated steel jaws with hardness HRC45°~50°.
- ▶ Jaw pair and handle are surface treated by oxide finish.
- ▶ Front fixed prismatic jaw with cross V-grooves is designed for clamping work piece firmly in both vertical & horizontal directions.



Quick motion mechanism



| Order No. | Model  | A   | B   | C   | D    | E   | F  | G    | H  | I  | J   | Max.clamping force | N.W.  |
|-----------|--------|-----|-----|-----|------|-----|----|------|----|----|-----|--------------------|-------|
| 65118     | HDC100 | 180 | 104 | 235 | 66.5 | 390 | 14 | 16.5 | 73 | 32 | 105 | 1000kgs            | 6.5kg |

Unit:mm

# Milling Machine Accessories

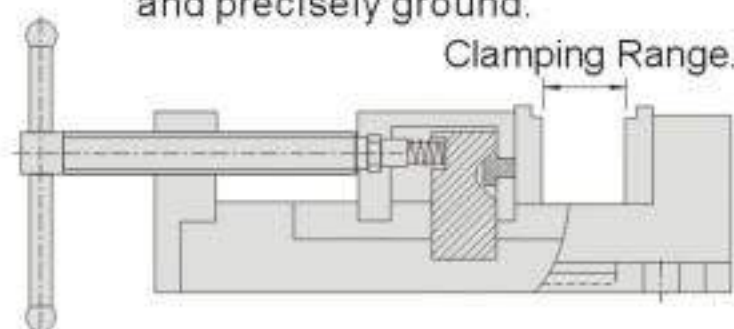
**65120**

**HDV**

**Angle Lock Drill Press Vise**

## Features:

- ▶ Angle Lock Mechanism produces downward pressure on Jaw during clamping, ensuring that both jaws are parallel and workpiece is held accurately.
- ▶ Made of high tensile FCD55 Ductile Iron.
- ▶ Slideway and underside of vice are precisely ground.
- ▶ The Stepped Jaw Plates are hardened to HRC 50° and precisely ground.



Unit:mm

| Order No. | Model   | Jaw Plate Height | Jaw Plate Width | Clamping Range. | N.W.  |
|-----------|---------|------------------|-----------------|-----------------|-------|
| 65120-100 | HDV-100 | 43               | 100             | 0~90            | 6.6kg |
| 65120-130 | HDV-130 | 43               | 130             | 0~90            | 8.2kg |

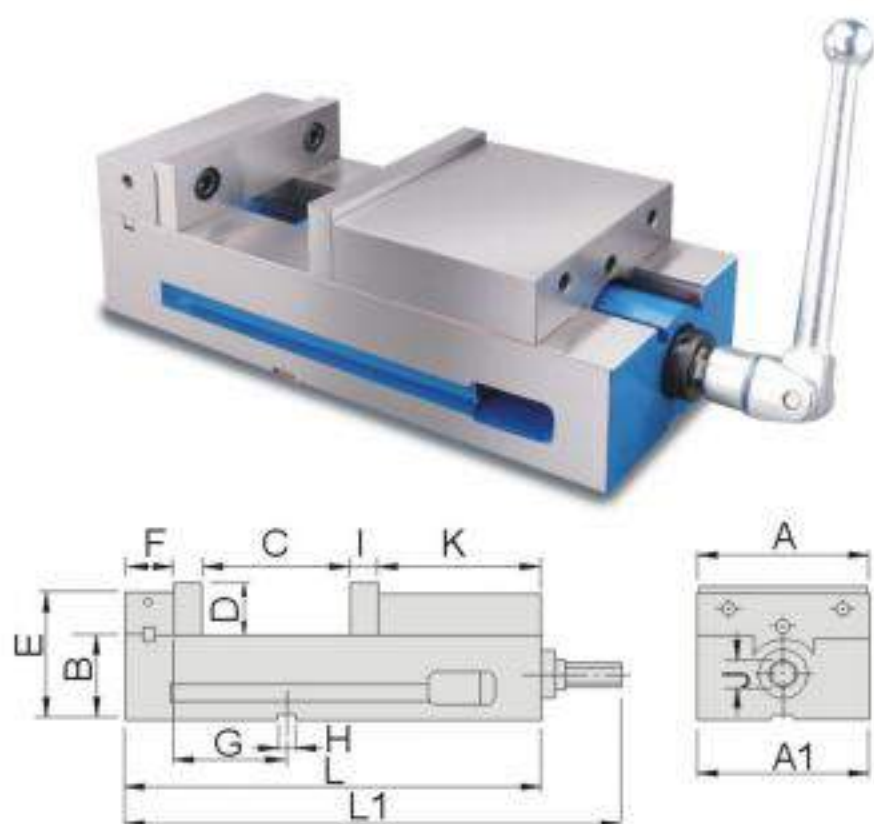
**65130**

**HLG**

**Lock-Tight Precision Machine Vise**

## Features:

- ▶ Lock-tight system ensures the workpiece does not lift.
- ▶ 80,000 PSI (FCD60) Ductile Iron body, HRC 45° hardened.
- ▶ Sealed bearing system reduces clamping pressure and increase bearings life.
- ▶ Clamping force reaches 8,200lbs (37800N)
- ▶ Angle Lock Mechanism produces downward pressure on Jaw during clamping, ensuring that both jaws are parallel and workpiece.
- ▶ Horizontal/Vertical dual-use type is optional.



Unit:mm

| Order No. | Model   | A   | A1  | B  | C   | D    | E   | F  | G    | H  | I  | J  | K   | L   | L1  | N.W.   |
|-----------|---------|-----|-----|----|-----|------|-----|----|------|----|----|----|-----|-----|-----|--------|
| 65130-40  | HLG40H  | 102 | 105 | 68 | 125 | 40   | 100 | 47 | 82.6 | 18 | 21 | 14 | 106 | 330 | 372 | 21kg   |
| 65130-50  | HLG50H  | 127 | 128 | 70 | 158 | 38   | 104 | 45 | 73   | 18 | 17 | 19 | 117 | 360 | 410 | 26kg   |
| 65130-60  | HLG60H  | 153 | 154 | 73 | 150 | 44.5 | 111 | 57 | 123  | 18 | 18 | 19 | 140 | 390 | 455 | 36.5kg |
| 65130-60L | HLG60HL | 150 | 152 | 92 | 280 | 44   | 138 | 46 | 84   | 18 | 18 | 19 | 125 | 485 | 540 | 41kg   |

# Milling Machine Accessories

## 65136/38 HMG/HMR Versatile Milling Vise

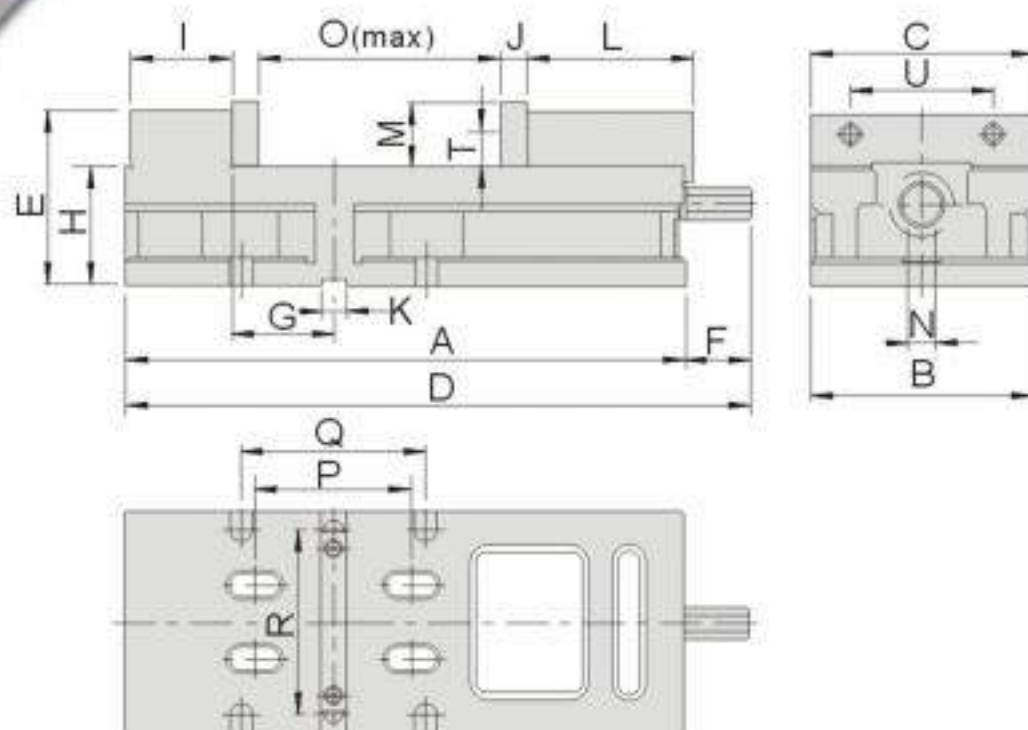
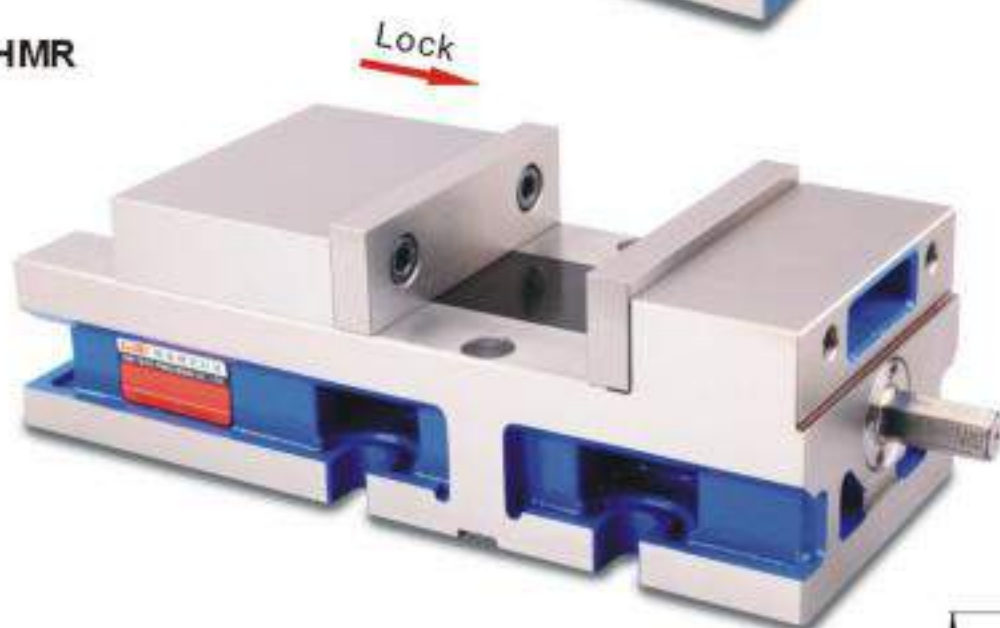
### HMG



### Features:

- ▶ Prevents lift of workpiece and high accuracy.
- ▶ All faces are precisely ground and so triple usage; vertical & horizontal and side ways.
- ▶ Material of FCD60(80,000PSI) Ductile Iron body with hardened HRC45°.

### HMR



| Order No. | Model |
|-----------|-------|
| 65136-40  | HMG40 |
| 65136-60  | HMG60 |
| 65138-40  | HMR40 |
| 65138-60  | HMR60 |

Unit:mm

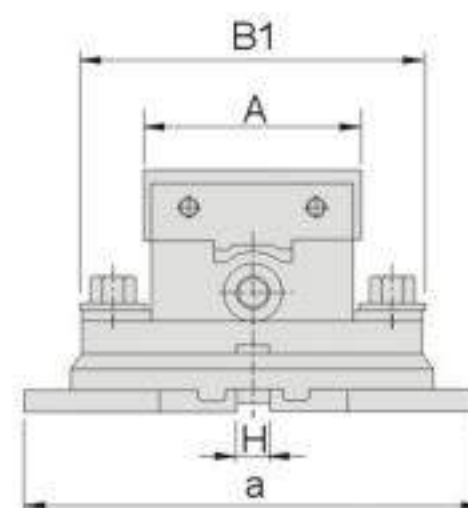
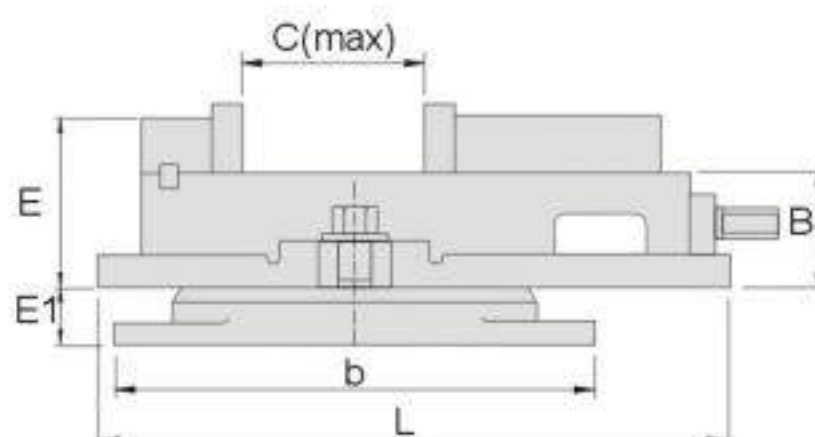
| Model       | A   | B      | C   | D     | E     | F    | G     | H    | I    | J  |
|-------------|-----|--------|-----|-------|-------|------|-------|------|------|----|
| HMG / HMR40 | 316 | 104    | 102 | 344   | 91.5  | 28   | 63.5  | 63.5 | 50.8 | 15 |
| HMG / HMR60 | 385 | 152.45 | 151 | 431.8 | 118.7 | 46.8 | 69.84 | 81   | 69.9 | 18 |

| Model       | K    | L     | M    | N  | O   | P      | Q     | R   | T    | U    | N.W. |
|-------------|------|-------|------|----|-----|--------|-------|-----|------|------|------|
| HMG / HMR40 | 12.7 | 100   | 35   | 14 | 130 | 85     | 101.6 | 80  | 17.5 | 63.5 | 20kg |
| HMG / HMR60 | 18   | 114.3 | 44.5 | 19 | 163 | 107.95 | 127   | 127 | 23.8 | 98.4 | 31kg |

**65140**
**HLV**
**Precision Angle Lock Machine Vise**

### Features:

- ▶ Economic type.
- ▶ Jaw perpendicularity and parallelism with in 0.05mm
- ▶ Induction and Flame Hardening Processes, HRC40°-45°
- ▶ Angle design for the slide, 45° down force when clamped.
- ▶ Graduation reading on the base 360° swivel.
- ▶ Vise and base can be ordered separately.



Unit:mm

| Order No. | Model |     |     |     |     | N.W.   |
|-----------|-------|-----|-----|-----|-----|--------|
| 65140-40  | HLV40 | 107 | 154 | 220 | 271 | 19.0kg |
| 65140-50  | HLV50 | 110 | 163 | 249 | 304 | 28.9kg |
| 65140-60  | HLV60 | 150 | 220 | 305 | 368 | 38.0kg |
| 65140-80  | HLV80 | 198 | 264 | 402 | 476 | 69.5kg |

| Order No. | Model | A   | a   | B  | B1  | b   | C   | E   | E1 | H  | L   |
|-----------|-------|-----|-----|----|-----|-----|-----|-----|----|----|-----|
| 65140-40  | HLV40 | 103 | 230 | 58 | 172 | 242 | 107 | 87  | 30 | 14 | 318 |
| 65140-50  | HLV50 | 133 | 256 | 66 | 210 | 280 | 110 | 98  | 32 | 14 | 355 |
| 65140-60  | HLV60 | 150 | 300 | 72 | 238 | 326 | 150 | 110 | 39 | 24 | 418 |
| 65140-80  | HLV80 | 210 | 380 | 85 | 301 | 420 | 200 | 136 | 45 | 24 | 555 |

# Milling Machine Accessories

**65150**

**HAT**

**Precision Angle Lock Machine Vise**

HAT-660

6.0" Opening

HAT-675

7.5" Opening

HAT-689

8.9" Opening

Spindle nut does not protrude over the end of body.

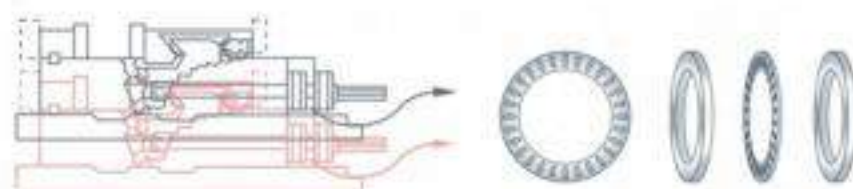
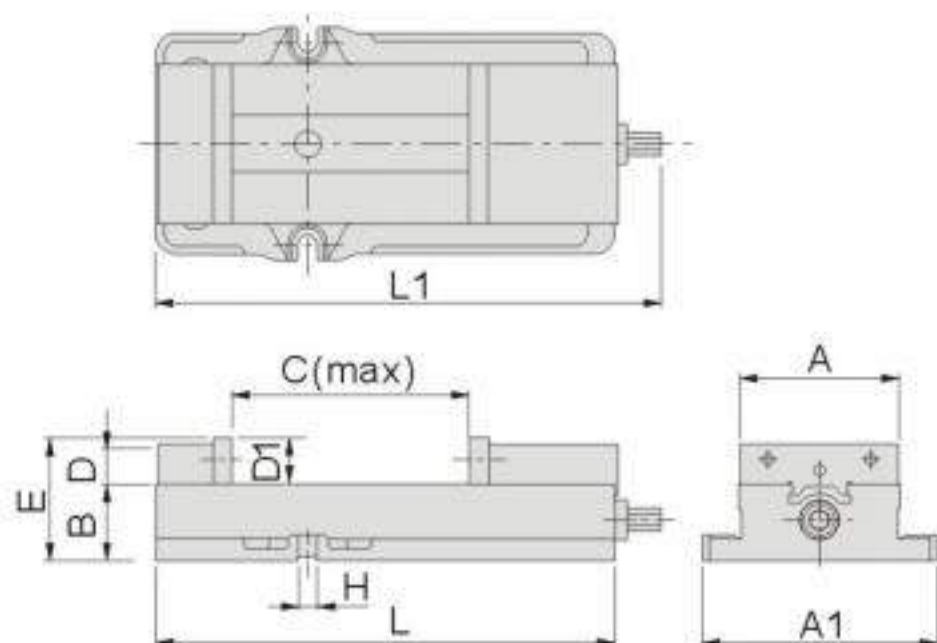
HAT-810

10" Opening

Clamping Force: 11,600IBS.

## Features:

- ▶ Ultra-precision in datum sliding surface, parallelism and perpendicularity.
- ▶ Anti-floating structure, reduce the floating when clamping.
- ▶ 80,000PSI FCD-60 Ductile Iron body with hardened HRC45°.
- ▶ Standard distance from T-slot to fixed Jaw.
- ▶ Sealed bearing system reduces clamping force and increases bearings life.
- ▶ Fixed jaw has machined T-slot for alignment of the vise and in
- ▶ Clamping Force 8200lbs (37800N)
- ▶ Jaw plate perpendicularity and parallelism is within 0.03mm.



8200lbs Clamping Force

Anti-floating System

Sealed Bearing System

Ductile Iron Body.



Unit:mm

| Order No. | Model  | A   | A1  | B      | C   | D  | D1   | E       | H  | L   | L1  | N.W.   |
|-----------|--------|-----|-----|--------|-----|----|------|---------|----|-----|-----|--------|
| 65150-660 | HAT660 | 152 | 238 | 72     | 156 | 38 | 44.5 | 114.0   | 18 | 405 | 435 | 28.4kg |
| 65150-675 | HAT675 | 152 | 235 | 73.025 | 192 | 38 | 44.5 | 117.525 | 18 | 432 | 485 | 32.3kg |
| 65150-689 | HAT689 | 152 | 222 | 73.025 | 226 | 38 | 44.5 | 117.525 | 18 | 437 | 481 | 34.3kg |
| 65150-810 | HAT810 | 203 | 295 | 84.074 | 265 | 50 | 56   | 140.074 | 21 | 555 | 585 | 66.4kg |

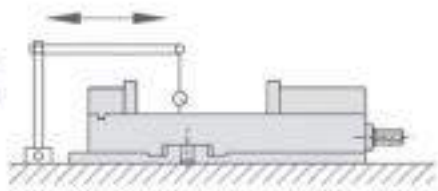
**65150**

**HAT**

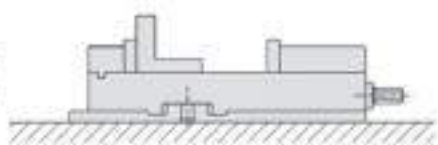
**Precision Angle Lock Machine Vise**

**Static**

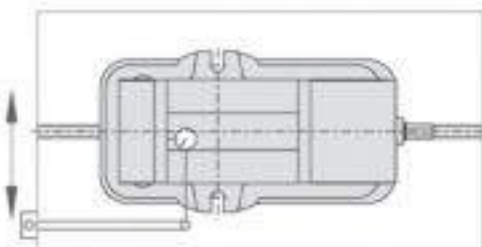
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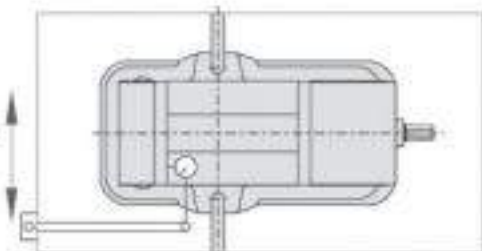
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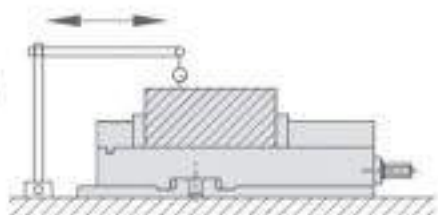
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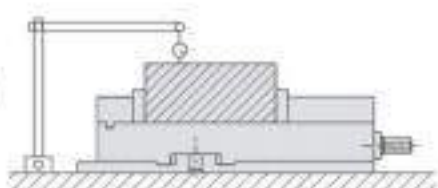
4



5



6



**HAT660**



**HAT675**

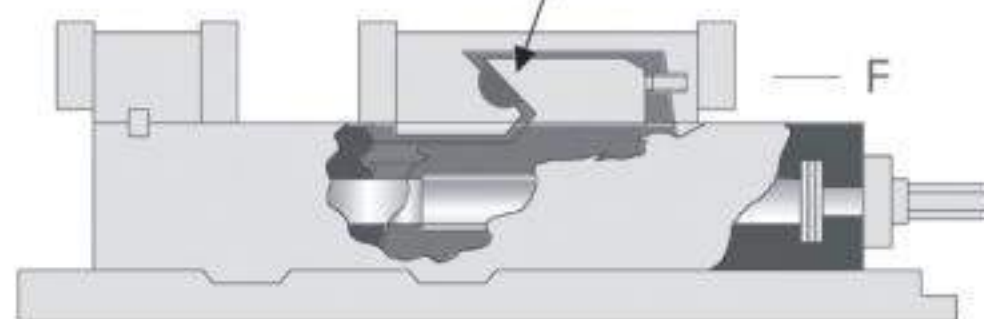
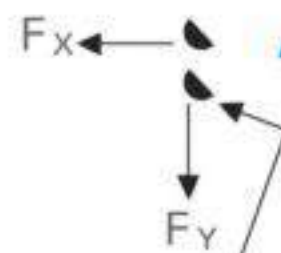


**HAT689**

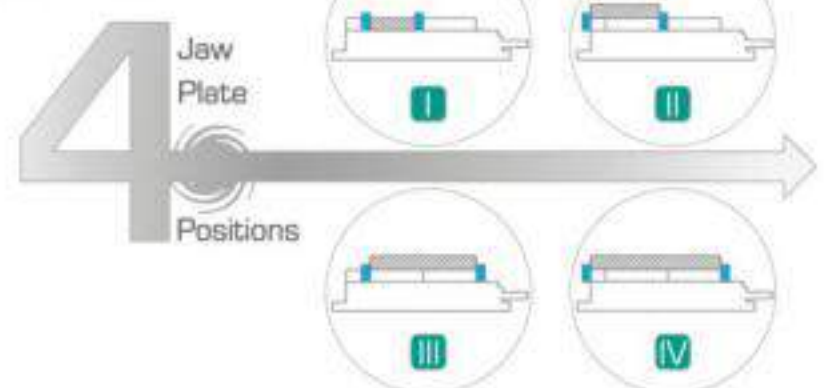


**HAT810**

**Anti-floating System**



**Four types applications**

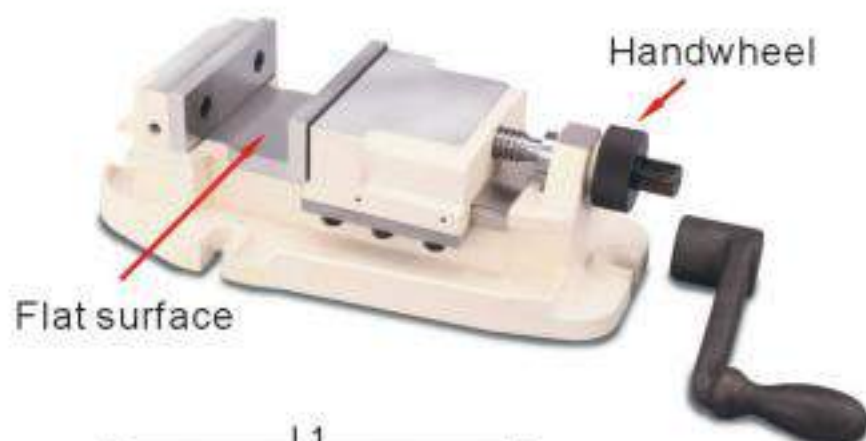


# Milling Machine Accessories

**65155**

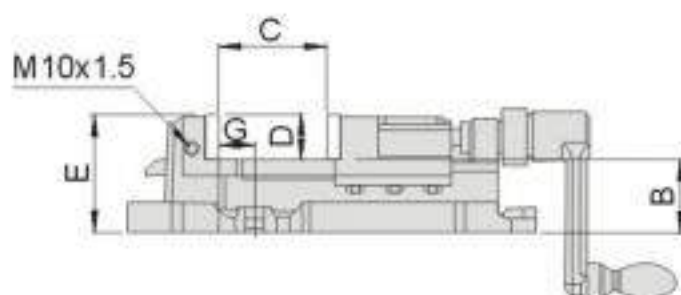
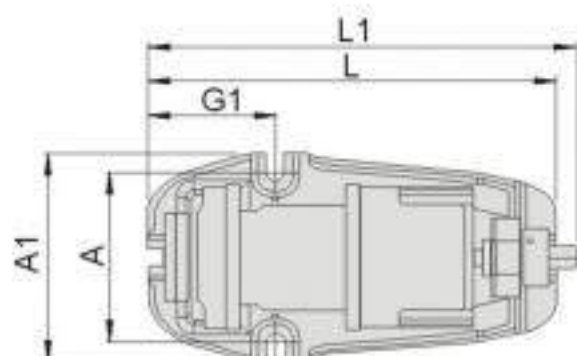
**MBV**

**Precision Machine Vise**



## Features:

- ▶ Flat surface no slot between slide guide rail preventing chip burr go inside.
- ▶ Material of 80,000PSI FCD-60 Ductile Iron body with hardened HRC45°.
- ▶ Special design of handwheel at the end of screw rod shaft for fast operation.



Unit:mm

| Order No. | Model  | A   | A1  | B  | C    | D  | E   | G  | G1  | L   | L1    | N.W. |
|-----------|--------|-----|-----|----|------|----|-----|----|-----|-----|-------|------|
| 65155-125 | MBV125 | 130 | 184 | 65 | 93.9 | 40 | 105 | 31 | 111 | 358 | 375.9 | 21kg |
| 65155-150 | MBV150 | 150 | 214 | 70 | 117  | 45 | 115 | 40 | 145 | 467 | 489   | 28kg |

**65158**

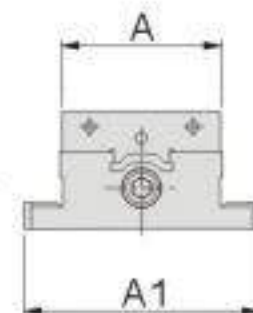
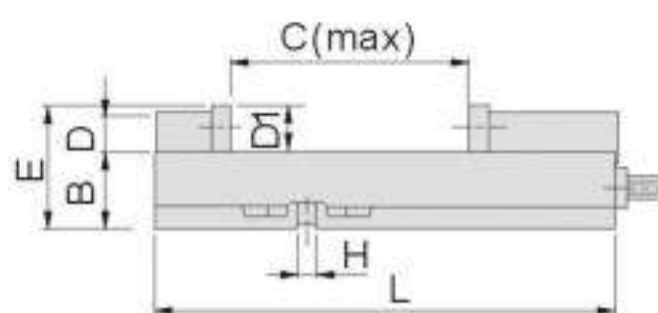
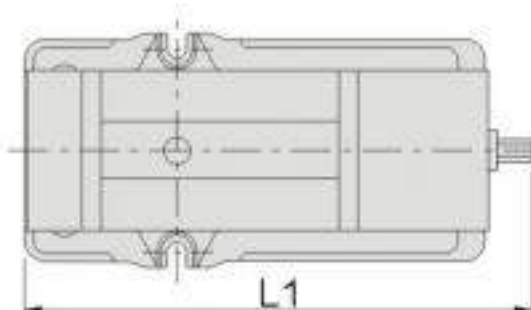
**EAT690**

**Precision Angle Lock Machine Vise**



## Features:

- ▶ Adopting high-frequency induction heating with HRC40°~45°.
- ▶ Angle lock design, it has clamping 45 downforce preventing workpiece lifting.
- ▶ Jaw plate perpendicularity and parallelism is within 0.05mm.



Unit:mm

| Order No. | Model  | A   | A1  | B  | C   | D  | D1 | E   | H  | L   | L1  | N.W.   |
|-----------|--------|-----|-----|----|-----|----|----|-----|----|-----|-----|--------|
| 65158     | EAT690 | 152 | 225 | 73 | 229 | 37 | 45 | 118 | 18 | 440 | 495 | 34.3kg |

# Milling Machine Accessories

**65160**

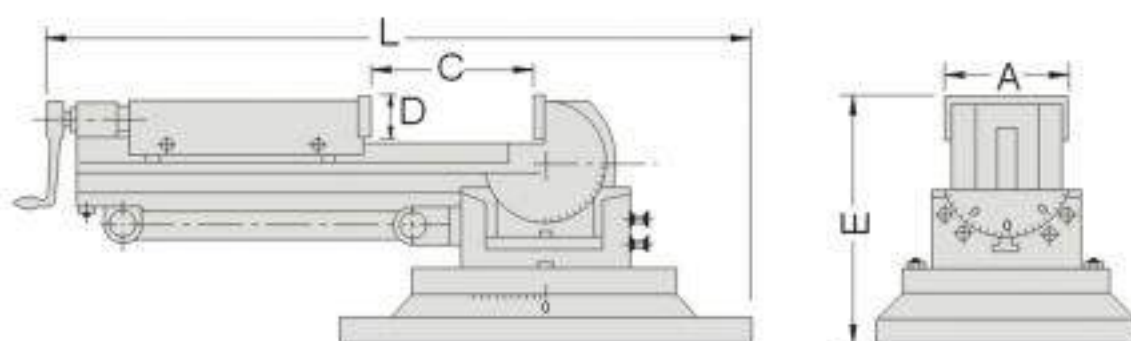
**VW**

**Universal 3-way Angle Vise**



## Features:

- ▲ Angles can be set in three dimensions.
- ▲ 360° swivel base with graduation.
- ▲ Can tilt up to 90° from horizontal to vertical, 45° incline for left & right.
- ▲ Safety lock for three way setting.



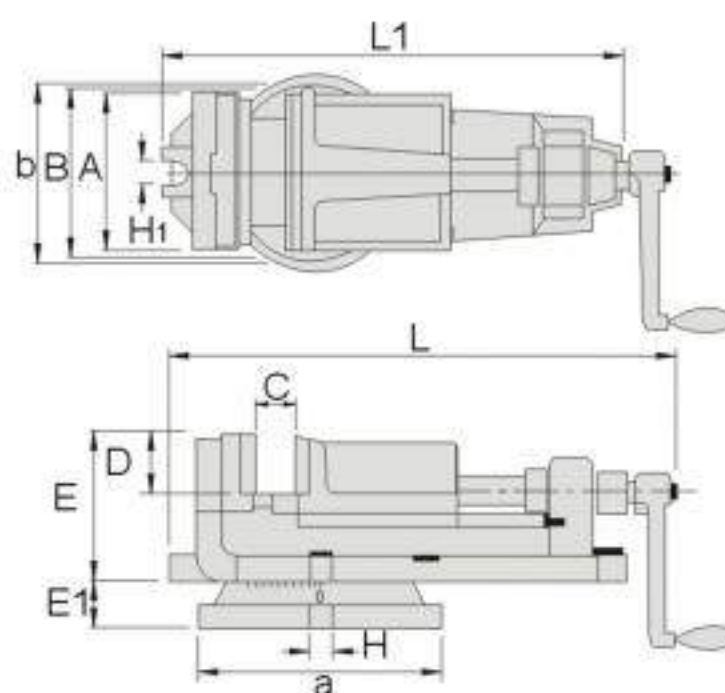
Unit:mm

| Order No. | Model | A   | C     | D  | E   | L   | Vertical Height | N.W.   |
|-----------|-------|-----|-------|----|-----|-----|-----------------|--------|
| 65160-03  | VW3   | 80  | 0-90  | 30 | 150 | 396 | 386             | 14.5kg |
| 65160-04  | VW4   | 106 | 0-105 | 38 | 172 | 460 | 470             | 32.7kg |
| 65160-05  | VW5   | 132 | 0-140 | 40 | 205 | 625 | 590             | 49.6kg |

**65170**

**HK**

**K-type Machine Vise**



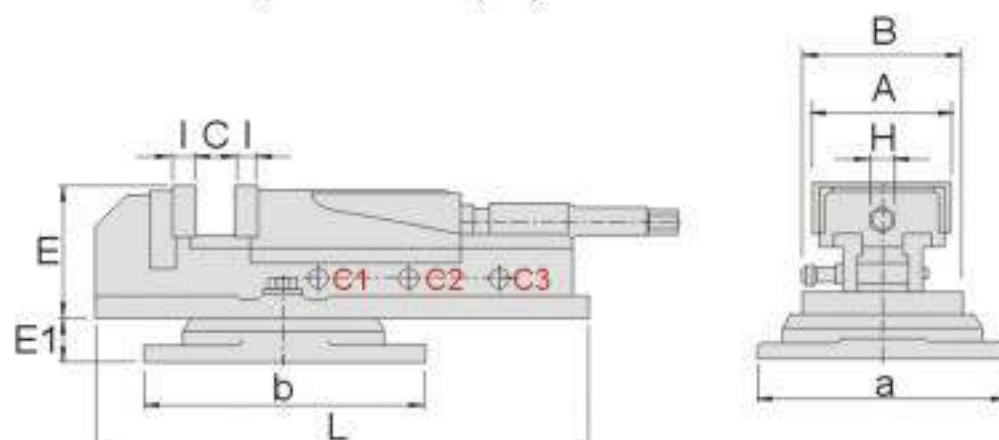
Unit:mm

| Order No. | Model | A   | a   | B   | b   | C     | D  | E   | E1 | H  | H1 | L   | L1  | N.W.   |
|-----------|-------|-----|-----|-----|-----|-------|----|-----|----|----|----|-----|-----|--------|
| 65170-15  | HK150 | 150 | 245 | 160 | 175 | 0-114 | 40 | 105 | 40 | 13 | 13 | 462 | 421 | 26kg   |
| 65170-20  | HK200 | 200 | 340 | 215 | 230 | 0-150 | 58 | 144 | 45 | 17 | 17 | 620 | 576 | 54.7kg |

**65180**
**HH**
**Super-open Milling Vise**

### Features:

- ▶ Made of hardened Alloy Steel and precisely ground.
- ▶ Except for the hydraulic system, other features are same as (65200 HVA) Hydraulic vise.



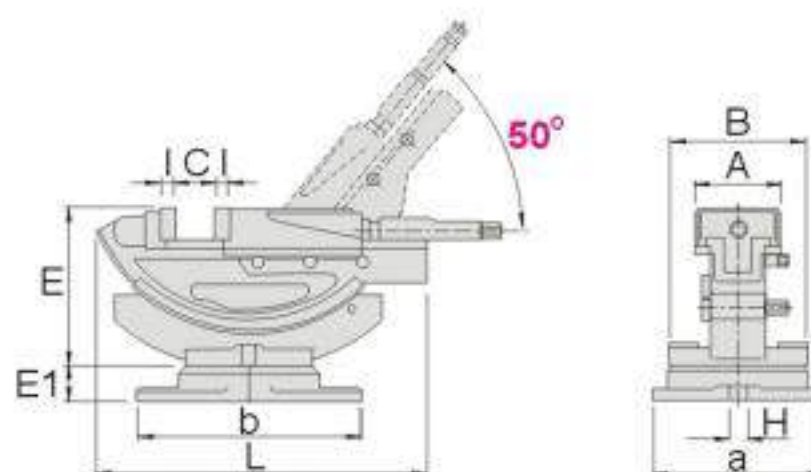
Unit:mm

| Order No. | Model | A   | a   | B   | b   | Clamping Range |       |         |         | E   | E1 | H  | I  | L   | N.W.   |
|-----------|-------|-----|-----|-----|-----|----------------|-------|---------|---------|-----|----|----|----|-----|--------|
|           |       |     |     |     |     | C              | C1    | C2      | C3      |     |    |    |    |     |        |
| 65180-400 | HH400 | 102 | 204 | 148 | 224 | 0-200          | 0-67  | 65-133  | 130-200 | 105 | 35 | 19 | 15 | 394 | 22.7kg |
| 65180-600 | HH600 | 148 | 256 | 200 | 280 | 0-275          | 0-92  | 90-183  | 180-275 | 142 | 32 | 19 | 15 | 535 | 44.3kg |
| 65180-800 | HH800 | 210 | 300 | 250 | 336 | 0-336          | 0-112 | 110-224 | 220-336 | 144 | 40 | 19 | 15 | 605 | 67.8kg |

**65190**
**HHY**
**Tilting Super-open Vise**

### Features:

- ▶ Tilt up and down with swivel base 360°.
- ▶ High quality casting with ground finish.
- ▶ Simple operation, 4 holes can be firmly & rapidly clamped.
- ▶ HHY150 with jaw opening 310mm which 2 times larger than the normal milling vise.
- ▶ Except for the hydraulic system, other features are same as (65210 HVW) Hydraulic vise.



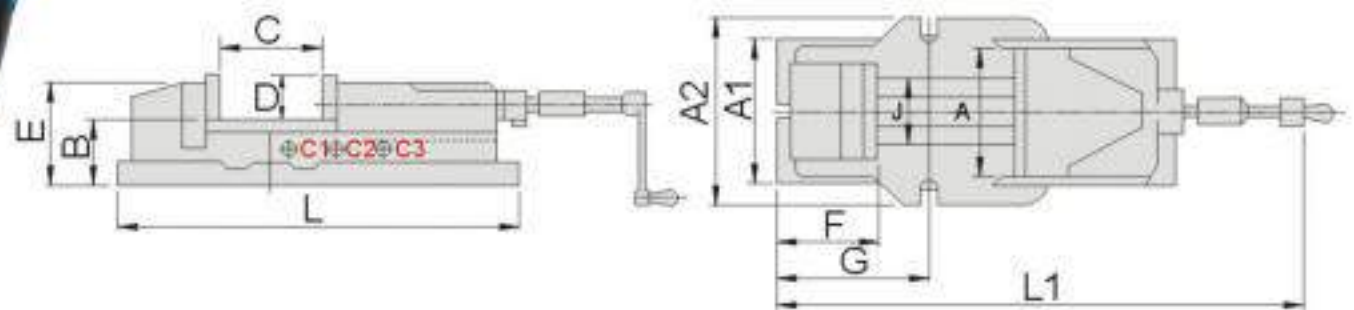
Unit:mm

| Order No. | Model  | A   | a   | B   | b   | Clamping Range |       |        |         | E   | E1 | H  | I  | L   | N.W.   |
|-----------|--------|-----|-----|-----|-----|----------------|-------|--------|---------|-----|----|----|----|-----|--------|
|           |        |     |     |     |     | C              | C1    | C2     | C3      |     |    |    |    |     |        |
| 65190-100 | HHY100 | 105 | 228 | 168 | 270 | 0-170          | 0-57  | 55-114 | 110-170 | 195 | 42 | 19 | 15 | 405 | 29kg   |
| 65190-150 | HHY150 | 154 | 300 | 238 | 336 | 0-310          | 0-100 | 98-200 | 198-300 | 214 | 40 | 19 | 15 | 485 | 56.9kg |

**65200**
**HVA**
**Hydraulic Machine Vise**


### Features:

- ▶ Made of hardened Alloy Steel and precisely ground.
- ▶ With hydraulic system, workpieces are easily clamped.



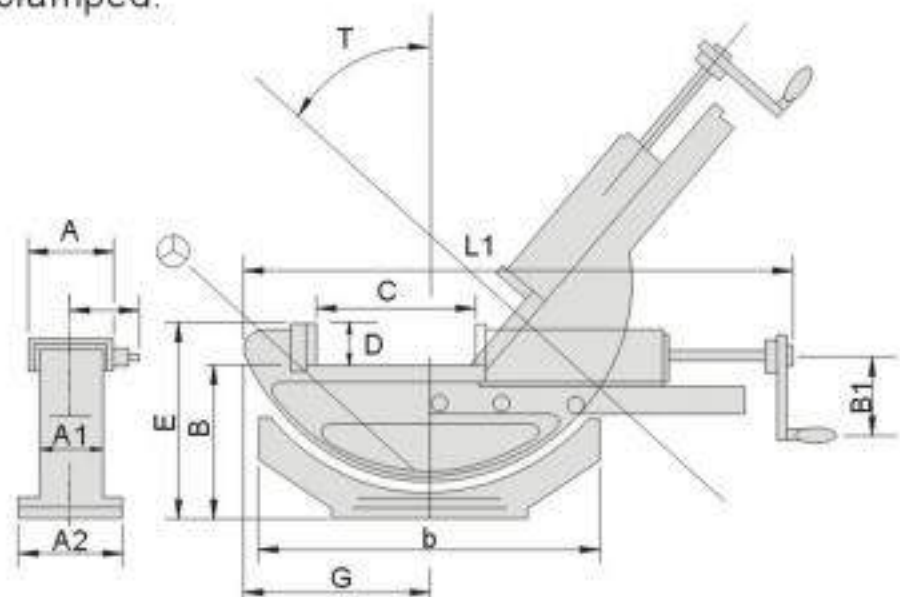
Unit:mm

| Order No. | Model  | A   | A1  | A2  | B    | Clamping Range |       |        |         | D  | E   | F   | G   | J   | L   | L1  | Force   | Body (N.W.) | Base (N.W.) |
|-----------|--------|-----|-----|-----|------|----------------|-------|--------|---------|----|-----|-----|-----|-----|-----|-----|---------|-------------|-------------|
|           |        |     |     |     |      | C              | C1    | C2     | C3      |    |     |     |     |     |     |     |         |             |             |
| 65200-100 | HVA100 | 105 | 135 | 170 | 58   | 0-170          | 0-57  | 55-114 | 112-170 | 36 | 95  | 95  | 147 | 80  | 440 | 525 | 2500kgf | 21kg        | 7kg         |
| 65200-125 | HVA125 | 130 | 175 | 207 | 70.5 | 0-220          | 0-73  | 72-146 | 145-220 | 48 | 120 | 107 | 195 | 97  | 550 | 670 | 3000kgf | 38kg        | 8kg         |
| 65200-150 | HVA150 | 150 | 182 | 225 | 82.5 | 0-300          | 0-100 | 98-200 | 198-300 | 53 | 135 | 117 | 240 | 116 | 620 | 800 | 4500kgf | 53kg        | 11kg        |
| 65200-200 | HVA200 | 200 | 260 | 280 | 100  | 0-300          | 0-100 | 99-200 | 198-300 | 62 | 162 | 150 | 260 | 160 | 680 | 900 | 8000kgf | 95kg        | 13kg        |

**65210**
**HVW**
**Tilting Hydraulic Machine Vise**


### Features:

- ▶ Tilt up and down with swivel base 360°.
- ▶ High quality casting with ground finish.
- ▶ With hydraulic system, workpieces are easily clamped.



Unit:mm

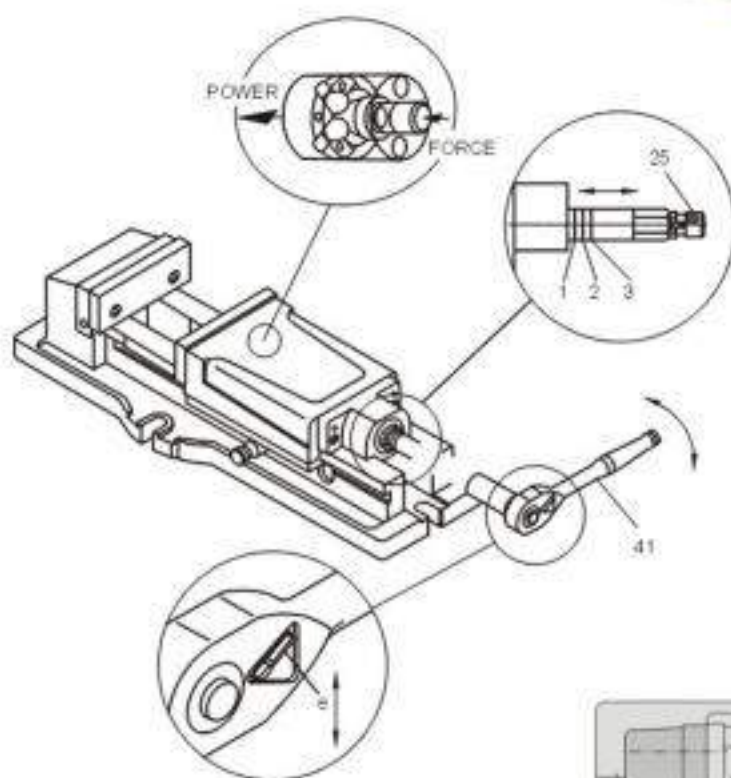
| Order No. | Model  | A   | A1 | A2  | B   | B1  | b   | Clamping Range |       |        |         | D  | E   | G   | L1  | T   | Body (N.W.) | Base (N.W.) |
|-----------|--------|-----|----|-----|-----|-----|-----|----------------|-------|--------|---------|----|-----|-----|-----|-----|-------------|-------------|
|           |        |     |    |     |     |     |     | C              | C1    | C2     | C3      |    |     |     |     |     |             |             |
| 65210-100 | HVW100 | 100 | 65 | 160 | 141 | 80  | 325 | 0-170          | 0-57  | 55-114 | 110-170 | 36 | 177 | 170 | 505 | 50° | 22.5kg      | 4.0kg       |
| 65210-150 | HVW150 | 150 | 95 | 240 | 186 | 100 | 410 | 0-300          | 0-100 | 98-200 | 198-300 | 51 | 237 | 200 | 775 | 50° | 68.5kg      | 10.0kg      |

# Milling Machine Accessories

**65220**

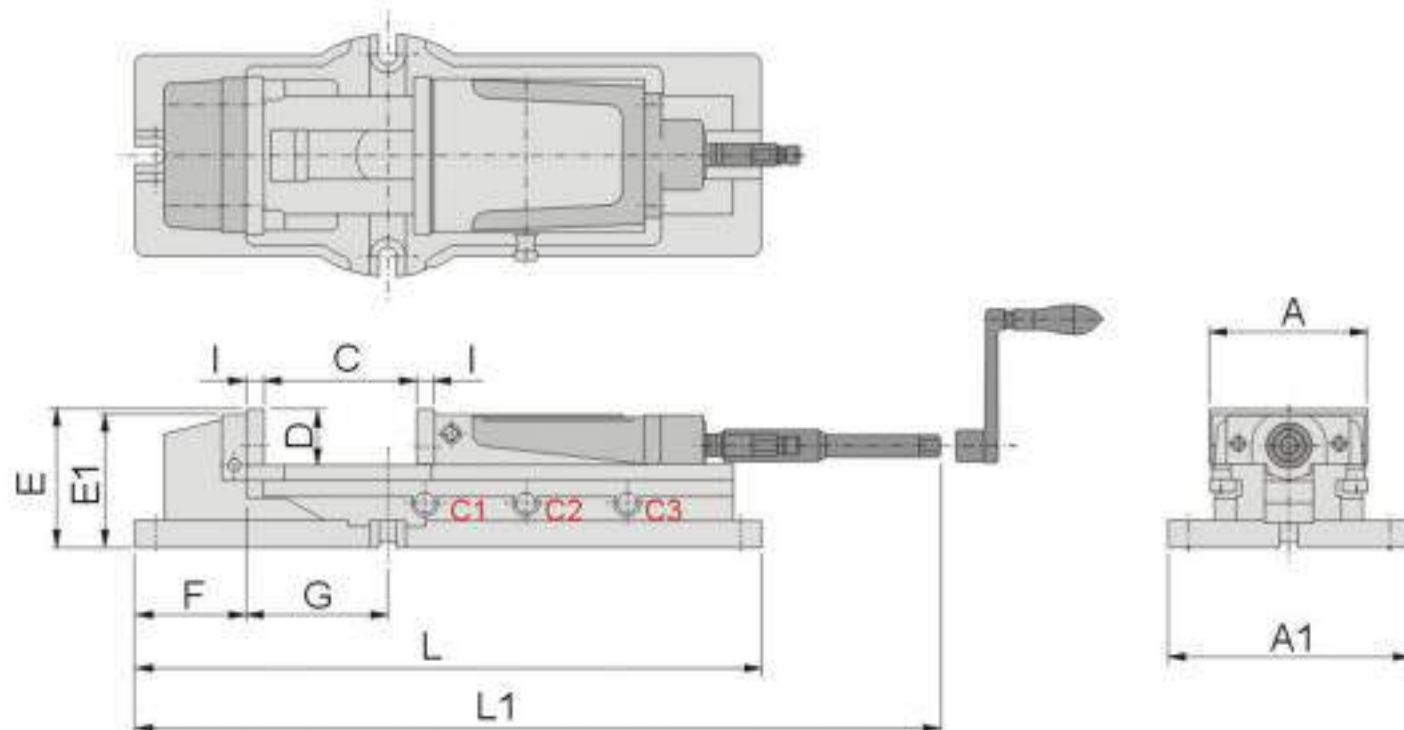
**HMP**

**Mechanical Power Machine Vise**



## Features:

- ▶ Unique ball design structure to provide superb clamping force with holding strength to enhance the processing accuracy.
- ▶ Many tones of pressure can be applied to workpieces with little effort while operating the
- ▶ HMP vise, which will never loosen the grip on a workpiece by itself. Loosen can be done manually.
- ▶ Suitable for milling, grinding, drilling, shaping and production as any other types of usage.



Unit:mm

| Order No. | Model | Clamping Range |       |        |         |
|-----------|-------|----------------|-------|--------|---------|
|           |       | C              | C1    | C2     | C3      |
| 65220-50  | HMP50 | 0-220          | 0~72  | 70~140 | 135~220 |
| 65220-60  | HMP60 | 0-300          | 0~100 | 98~200 | 195~300 |
| 65220-80  | HMP80 | 0-300          | 0~100 | 98~200 | 195~300 |

| Order No. | Model | A   | A1  | D  | E   | E1  | F   | G   | I  | L   | L1  | N.W.   |
|-----------|-------|-----|-----|----|-----|-----|-----|-----|----|-----|-----|--------|
| 65220-50  | HMP50 | 130 | 185 | 46 | 118 | 117 | 105 | 82  | 15 | 538 | 670 | 37.9kg |
| 65220-60  | HMP60 | 154 | 225 | 54 | 133 | 132 | 100 | 140 | 17 | 620 | 800 | 56.8kg |
| 65220-80  | HMP80 | 206 | 280 | 62 | 162 | 160 | 135 | 118 | 21 | 700 | 900 | 96.3kg |

**65230**
**GPHV**
**Hydraulic Power Machine Vise**

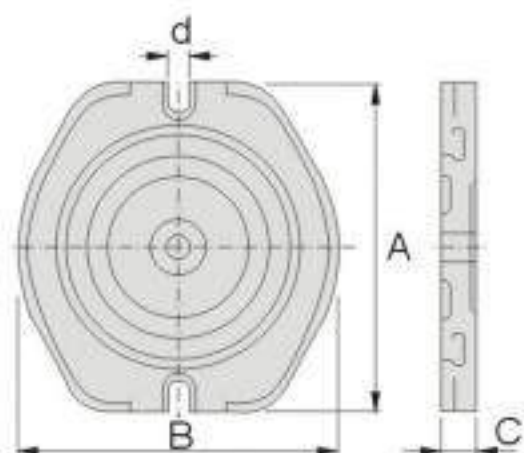
### Features:

- Hydraulic power can be applied separately, both also can be used at the same time with max clamping force 6,000 kg
- Down thrust semi-sphere segment mechanism eliminates jaw lifting and work tilt.
- Slide and the surface are precision ground.
- Made of Ductile Iron FCD60.
- Vise bed flange hardened to HRC 45° to ensure long lasting wear-resistance and accuracy.
- Most suitable for milling processing, molding purposes.



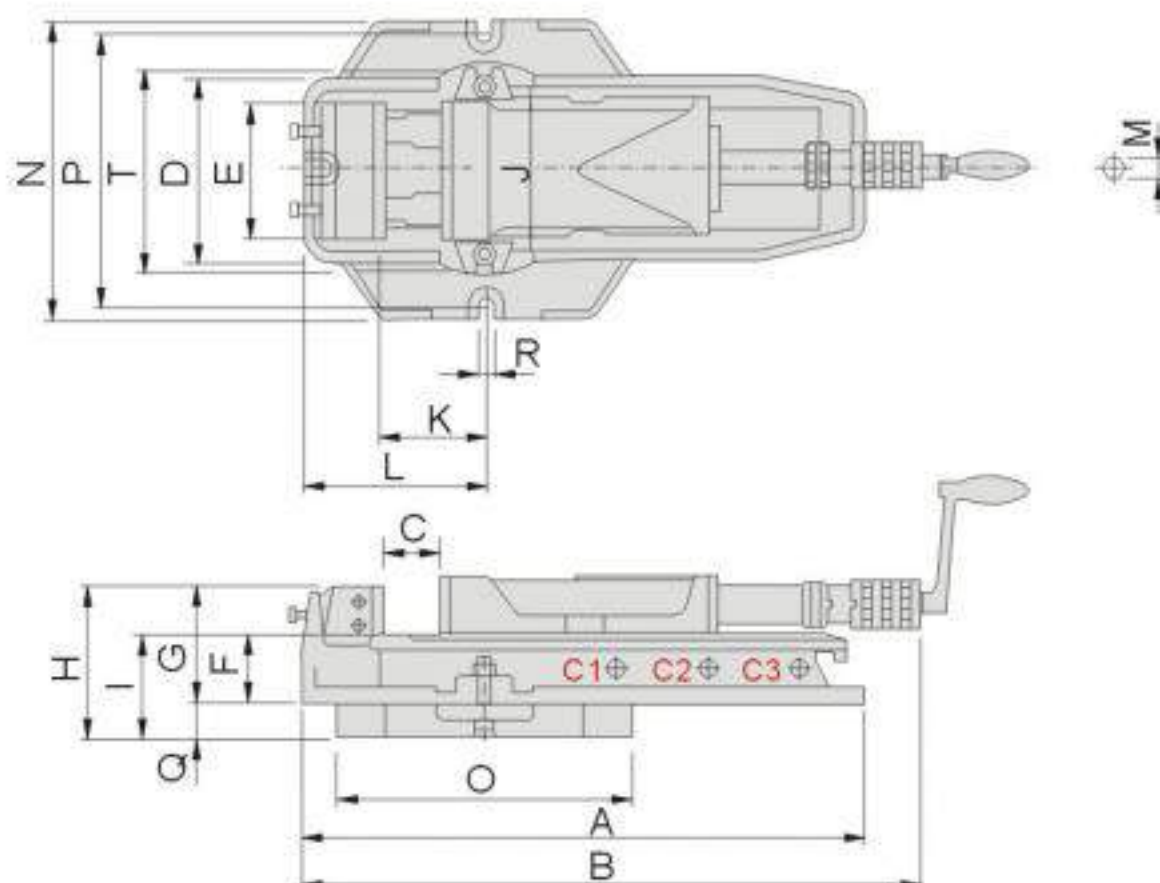
MILLING MACHINE  
ACCESSORIES

Swivel Base (Optional)



單位:mm

| Order No. | A   | B   | C  | Weight(kg) |
|-----------|-----|-----|----|------------|
| GPHV-125  | 280 | 266 | 32 | 12         |
| GPHV-160  | 330 | 310 | 35 | 16         |
| GPHV-200  | 375 | 355 | 40 | 16         |



Unit:mm

| Order No. | Model    | A   | B    |      | Clamping Range |       |         |         | D   | E   | F   | G   | H   | I   | J   | L   | M  | N   | O   | P   | Q  | R  | T   | Force (kgf) | N.W.  |
|-----------|----------|-----|------|------|----------------|-------|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|----|-----|-------------|-------|
|           |          |     | Min. | Max. | C              | C1    | C2      | C3      |     |     |     |     |     |     |     |     |    |     |     |     |    |    |     |             |       |
| 65230-01  | GPHV-125 | 505 | 570  | 795  | 0~220          | 0~72  | 70~140  | 135~220 | 170 | 130 | 72  | 127 | 160 | 106 | 75  | 180 | 14 | 280 | 266 | 260 | 32 | 16 | 190 | 3500        | 40kg  |
| 65230-02  | GPHV-160 | 605 | 625  | 935  | 0~310          | 0~102 | 100~205 | 200~310 | 210 | 160 | 82  | 140 | 192 | 117 | 101 | 195 | 14 | 334 | 320 | 310 | 35 | 18 | 240 | 4000        | 70kg  |
| 65230-03  | GPHV-200 | 700 | 725  | 1035 | 0~310          | 0~102 | 100~205 | 200~310 | 240 | 200 | 100 | 163 | 240 | 146 | 115 | 265 | 14 | 420 | 420 | 390 | 50 | 18 | 280 | 6000        | 115kg |

# Milling Machine Accessories

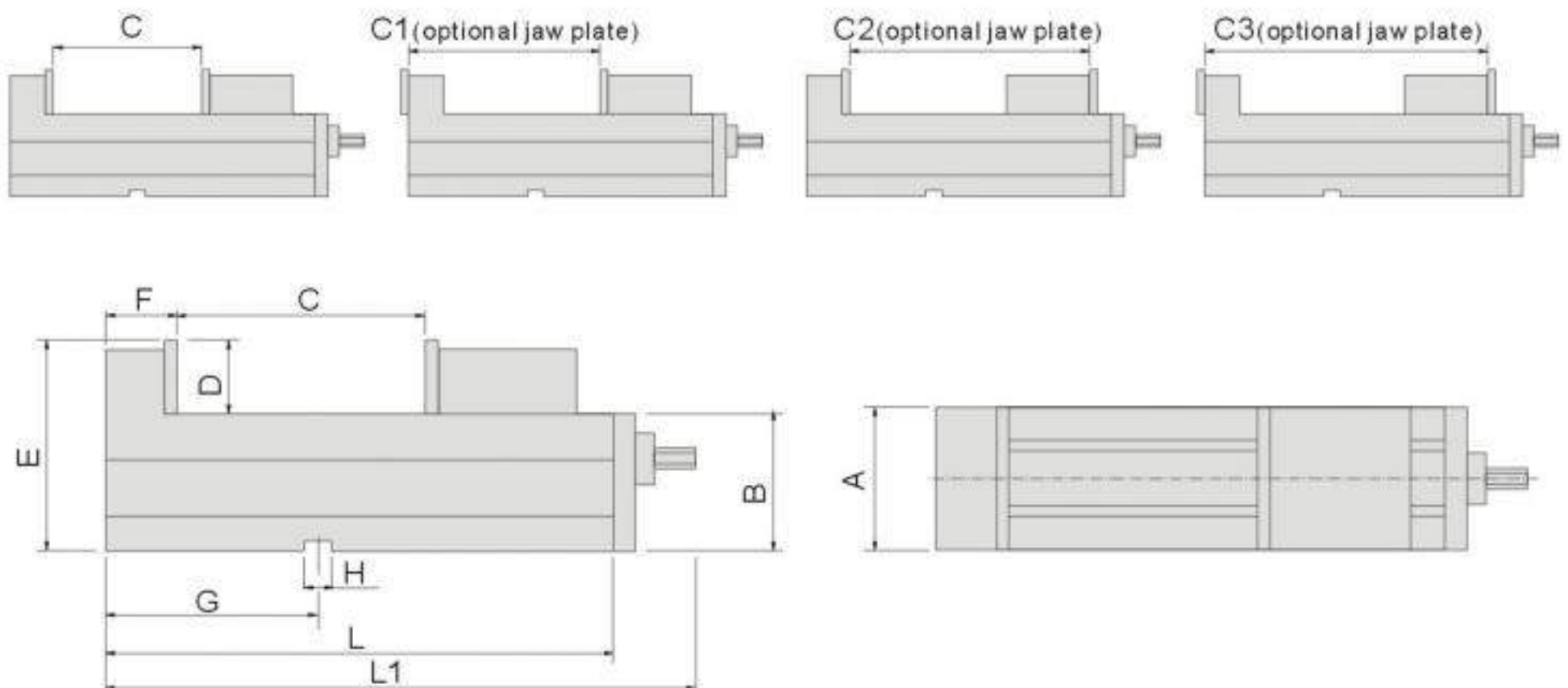
**65270**

**GCV**

**Precision Mechanical Machine Vise**

## Features :

- ▶ Mechanical constructure.
- ▶ Suitable for vertical/horizontal milling machine, can be applied parallel.
- ▶ Down thrust semi-sphere segment mechanism eliminates jaw lifting and work tilt.
- ▶ Slide and the surface are precision ground.
- ▶ Made of Ductile Iron FCD60 JIS (60kgs/mm<sup>2</sup> / 80000psi).
- ▶ Vise bed flame hardened to HRC 45 °to ensure long lasting wear-resistance and accuracy.



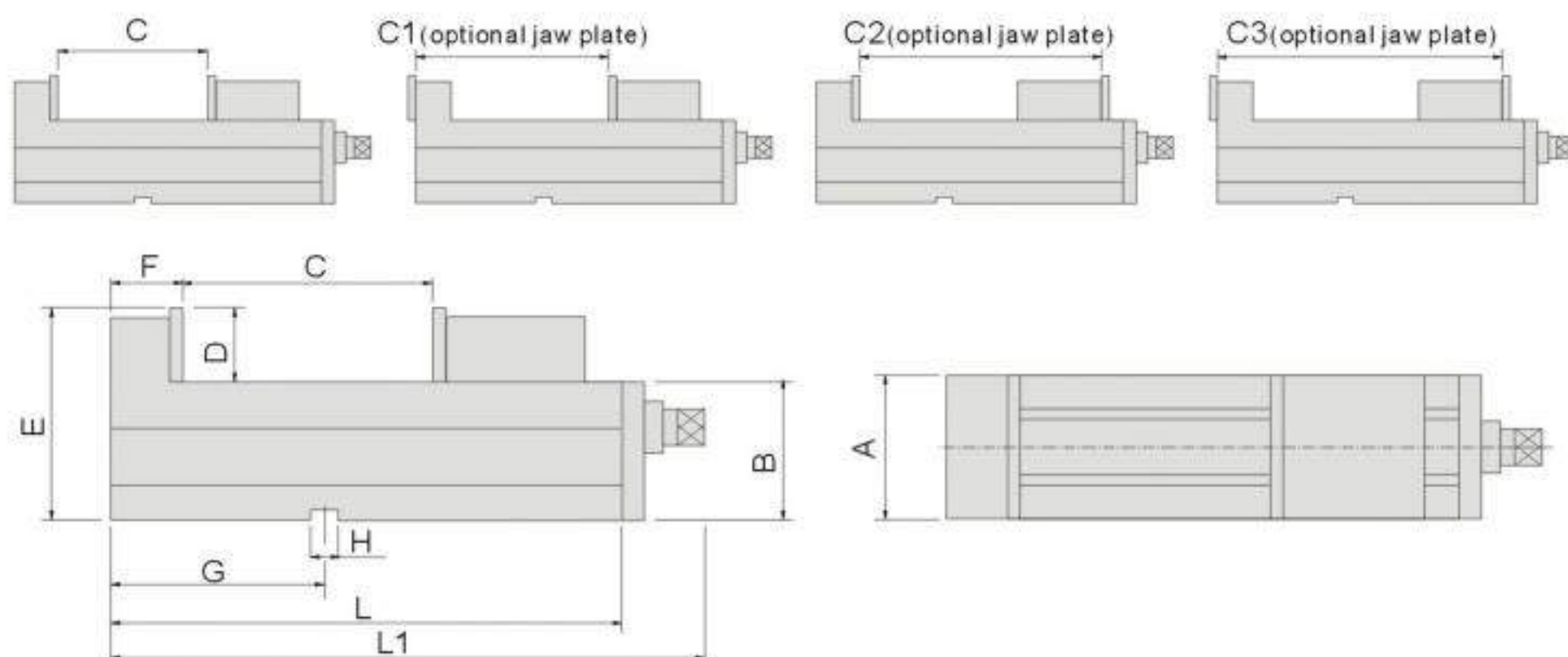
Unit:mm

| Order No. | Model   | A   | B   | Clamping Range |     |     |     | D  | E   | F   | G   | H  | L   | L1  | N.W. |
|-----------|---------|-----|-----|----------------|-----|-----|-----|----|-----|-----|-----|----|-----|-----|------|
|           |         |     |     | C              | C1  | C2  | C3  |    |     |     |     |    |     |     |      |
| 65270-01  | GCV-100 | 101 | 85  | 125            | 190 | 230 | 320 | 48 | 133 | 80  | 125 | 16 | 340 | 470 | 26kg |
| 65270-02  | GCV-130 | 131 | 95  | 180            | 240 | 290 | 380 | 55 | 150 | 85  | 150 | 18 | 405 | 535 | 39kg |
| 65270-03  | GCV-160 | 161 | 105 | 240            | 320 | 360 | 470 | 58 | 163 | 100 | 165 | 18 | 495 | 625 | 57kg |
| 65270-04  | GCV-200 | 201 | 110 | 280            | 360 | 420 | 540 | 63 | 173 | 108 | 190 | 18 | 570 | 700 | 86kg |

**65280**
**GCHV**
**Precision Hydraulic Machine Vise**


### Features:

- Hydraulic constructure.
- Suitable for vertical/horizontal milling machine, can be applied parallel.
- Down thrust semi-sphere segment mechanism eliminates jaw lifting and work tilt.
- Slide and the surface are precision ground.
- Made of Ductile Iron FCD60 JIS (60kgs/mm<sup>2</sup> / 80000psi).
- Vise bed flame hardened to HRC 45 ° to ensure long lasting wear-resistance and accuracy.



Unit:mm

| Order No. | Model    | A   | B   | Clamping Range |     |     |     | D  | E   | F   | G   | H  | L   | L1  | Force (kgf) | N.W. |
|-----------|----------|-----|-----|----------------|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-------------|------|
|           |          |     |     | C              | C1  | C2  | C3  |    |     |     |     |    |     |     |             |      |
| 65280-01  | GCHV-100 | 101 | 85  | 125            | 190 | 230 | 320 | 48 | 133 | 80  | 125 | 16 | 340 | 470 | 4000        | 27kg |
| 65280-02  | GCHV-130 | 131 | 95  | 180            | 240 | 290 | 380 | 55 | 150 | 85  | 150 | 18 | 405 | 535 | 4000        | 40kg |
| 65280-03  | GCHV-160 | 161 | 105 | 240            | 320 | 360 | 470 | 58 | 163 | 100 | 165 | 18 | 495 | 625 | 5500        | 58kg |
| 65280-04  | GCHV-200 | 201 | 110 | 280            | 360 | 420 | 540 | 63 | 173 | 108 | 190 | 18 | 570 | 700 | 6900        | 87kg |

# Milling Machine Accessories

**65290**

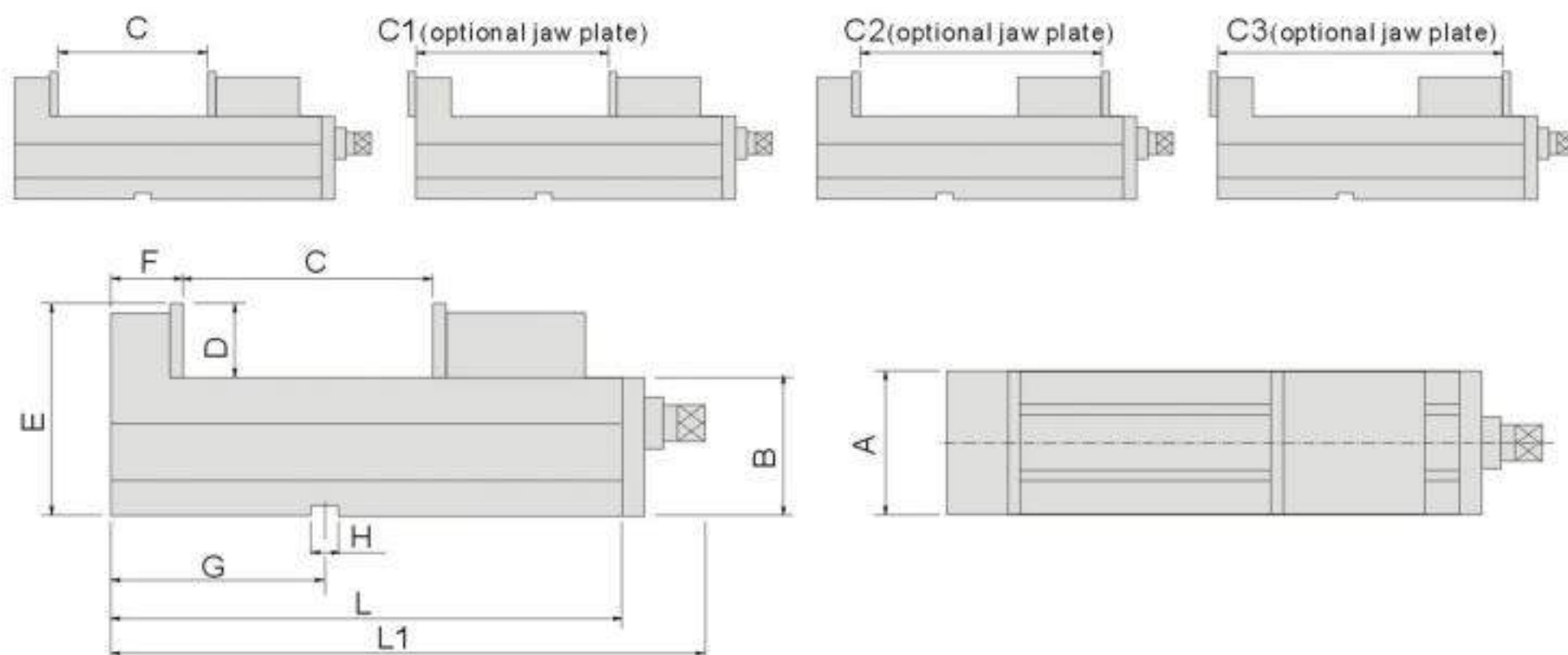
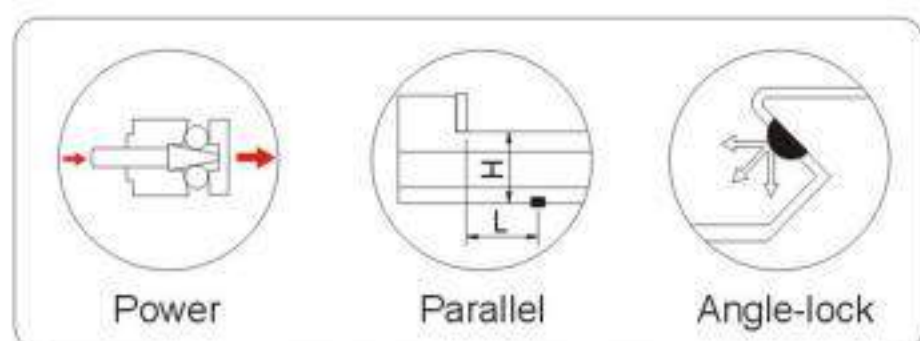
**GMV**

**Precision Machine Vise**



## Features:

- ▶ Mechanical power can be applied separately, both also can be used at same time and can be applied in parallel.
- ▶ Down thrust semi-sphere segment mechanism eliminates jaw lifting and work tilt.
- ▶ Slide and the surface are precision ground.
- ▶ Made of Ductile Iron FCD60 JIS (60kgs/mm<sup>2</sup> / 80000psi).
- ▶ Vise bed flame hardened to HRC 45 ° to ensure long lasting wear-resistance and accuracy.



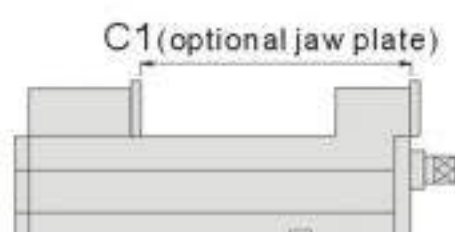
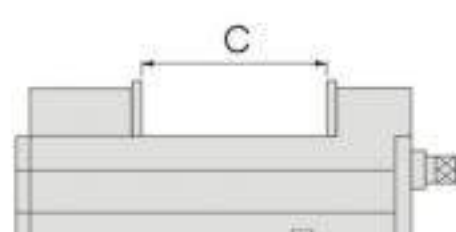
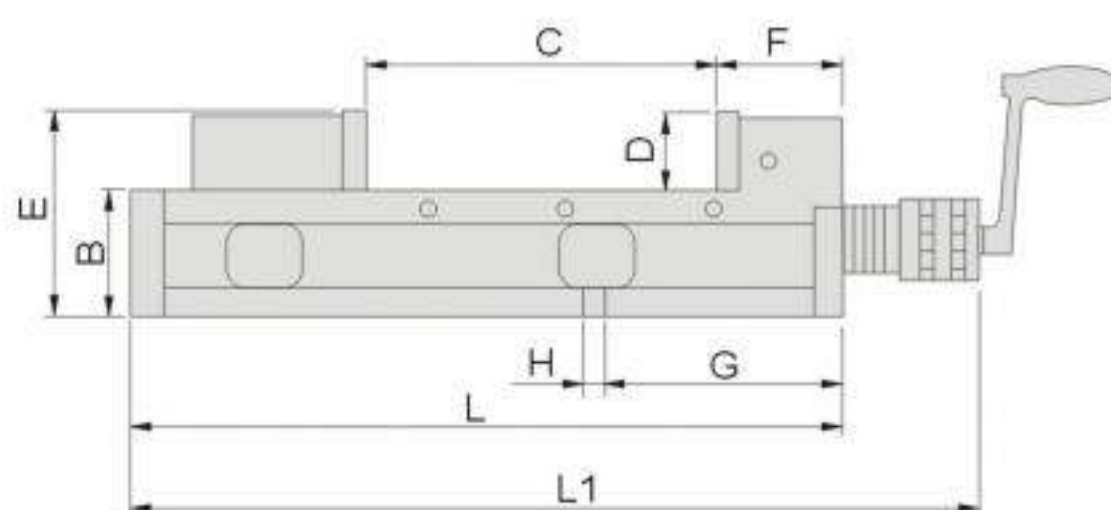
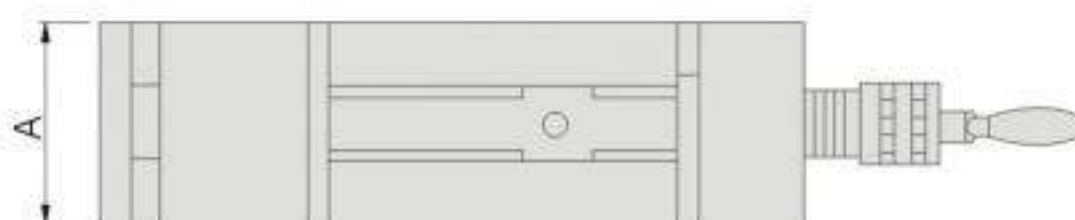
Unit:mm

| Order No. | Model   | A   | B   | Clamping Range |     |     |     | D  | E   | F   | G   | H  | L   | L1  | Force (kgf) | N.W. |
|-----------|---------|-----|-----|----------------|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-------------|------|
|           |         |     |     | C              | C1  | C2  | C3  |    |     |     |     |    |     |     |             |      |
| 65290-01  | GMV-100 | 101 | 85  | 145            | 190 | 230 | 320 | 48 | 133 | 80  | 125 | 16 | 340 | 470 | 3500        | 27kg |
| 65290-02  | GMV-130 | 131 | 95  | 220            | 240 | 290 | 380 | 55 | 150 | 85  | 150 | 18 | 405 | 535 | 4000        | 40kg |
| 65290-03  | GMV-160 | 161 | 105 | 300            | 330 | 370 | 480 | 58 | 163 | 100 | 165 | 18 | 505 | 635 | 4000        | 58kg |
| 65290-04  | GMV-200 | 201 | 110 | 340            | 370 | 430 | 550 | 63 | 173 | 108 | 190 | 18 | 580 | 710 | 4500        | 87kg |

**65320**
**GAHV**
**Precision Hydraulic & Angle Look Vise**

### Features:

- ▶ Adopting fixed jaw on near side of the operator, makes easier for loading & unloading, increase efficiency and less fatigue.
- ▶ Made of Ductile Iron FCD60 JIS (60kgs/mm<sup>2</sup>). Anti-float structure, suitable for applying heavy duty milling job in machining center...



Unit:mm

| Order No. | Model    | A   | B   | Clamping Range |     |     |     | D  | E   | F   | G   | H  | L   | L1  | Force (kgf) | N.W. |
|-----------|----------|-----|-----|----------------|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-------------|------|
|           |          |     |     | C              | C1  | C2  | C3  |    |     |     |     |    |     |     |             |      |
| 65320     | GAHV-160 | 160 | 100 | 280            | 380 | 450 | 550 | 60 | 160 | 100 | 200 | 18 | 570 | 647 | 5000        | 90kg |

# Milling Machine Accessories

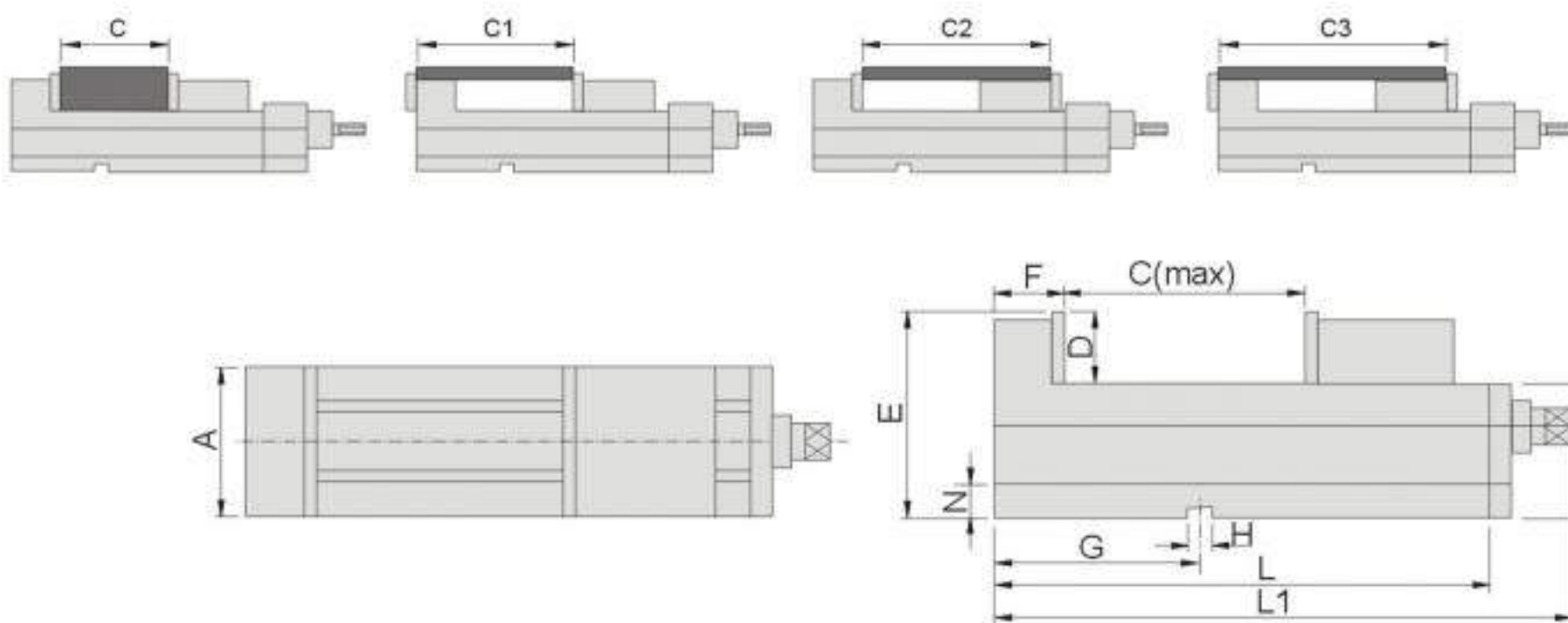
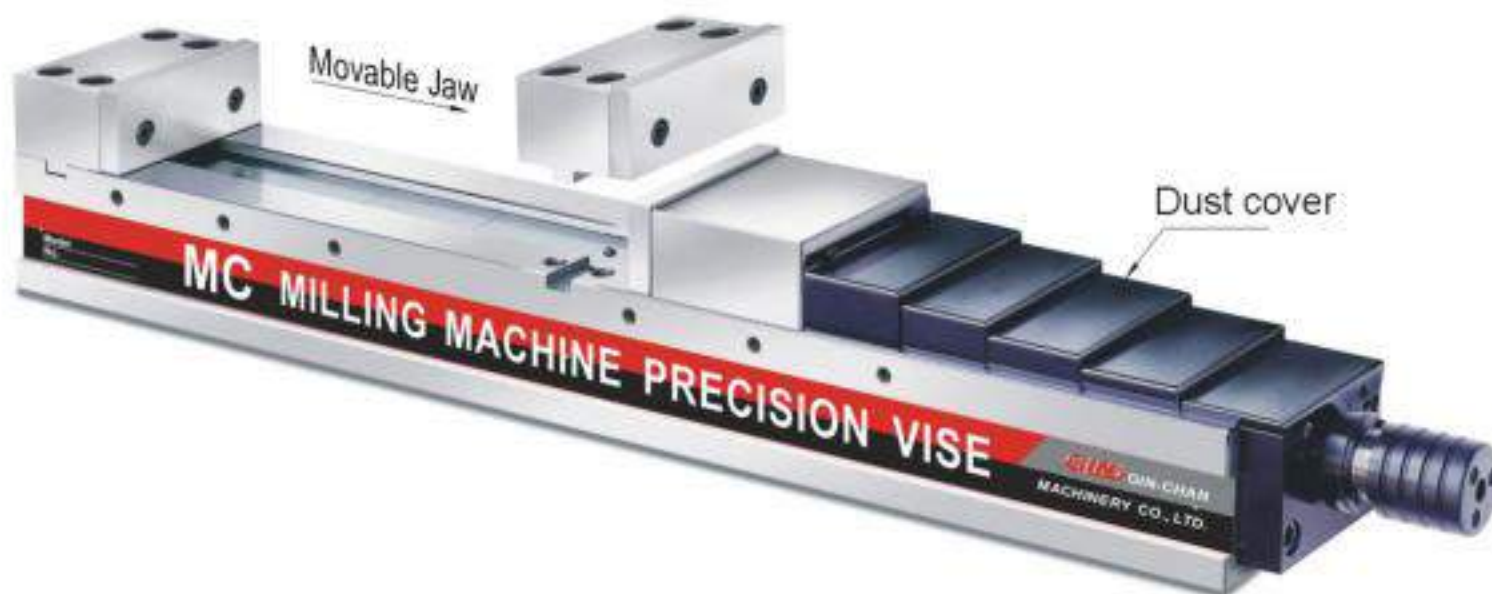
**65330**

**MHV**

**Precision Hydraulic Vise (Long Opening)**

## Features :

- ▶ Long opening design.
- ▶ Made of Ductile Iron FCD60 JIS (60kgs/mm<sup>2</sup>).



NOTE: Remove the dust cover to extend 90mm clamping range.

Unit:mm

| Order No. | Model     | Clamping Range |     |     |     |
|-----------|-----------|----------------|-----|-----|-----|
|           |           | C              | C1  | C2  | C3  |
| 65330-01  | MHV-160LS | 0~400          | 495 | 510 | 615 |
| 65330-02  | MHV-200LS | 0~490          | 590 | 605 | 715 |
| 65330-03  | MHV-160L  | 300~650        | 745 | 760 | 865 |
| 65330-04  | MHV-200L  | 400~730        | 830 | 845 | 955 |

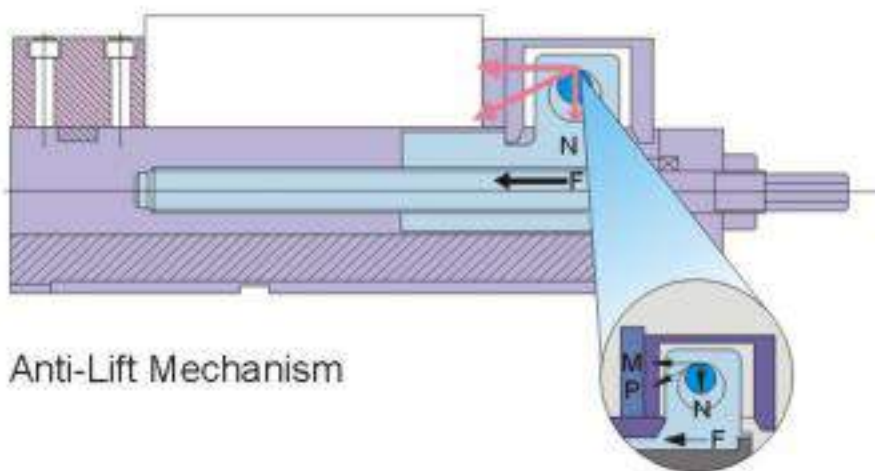
| Order No. | Model     | A   | B   | D  | E   | F   | G   | H  | L    | L1   | N  | Force (kgf) | N.W.  |
|-----------|-----------|-----|-----|----|-----|-----|-----|----|------|------|----|-------------|-------|
| 65330-01  | MHV-160LS | 160 | 105 | 60 | 165 | 103 | 100 | 18 | 725  | 860  | 23 | 4400        | 80kg  |
| 65330-02  | MHV-200LS | 200 | 110 | 60 | 170 | 108 | 220 | 18 | 835  | 970  | 23 | 5500        | 100kg |
| 65330-03  | MHV-160L  | 160 | 105 | 60 | 165 | 103 | 100 | 18 | 1000 | 1130 | 23 | 4400        | 90kg  |
| 65330-04  | MHV-200L  | 200 | 110 | 60 | 170 | 108 | 220 | 18 | 1100 | 1230 | 23 | 5500        | 130kg |

Movable Jaw needs to be moved when clamping 0~400mm range for model 160L & 200L.

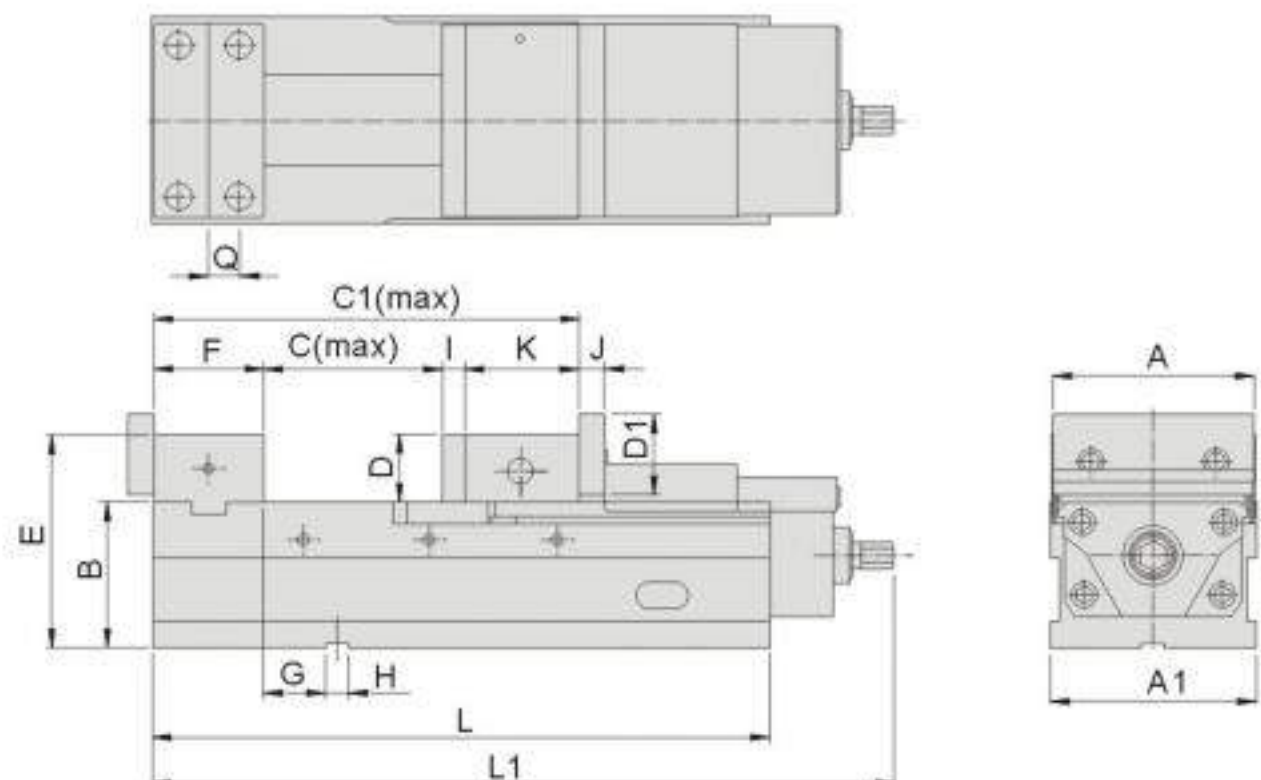
**65340**
**HVL**
**Precision Super Vise**


### Features:

- ▶ Specially made for milling and cutting machining, adopting Anti-Lift mechanism.
- ▶ Particularly design for workpiece that needs high precision.
- ▶ Max. clamping force 2000kg/cm<sup>2</sup>.
- ▶ Bed height deviation: within  $\pm 0.01$ mm.
- ▶ Distance from keyway to fixed jaw deviation: within  $\pm 0.01$ mm
- ▶ Horizontal / Vertical dual usage, side use is capable, accuracy within  $\pm 0.01$ mm.



Anti-Lift Mechanism



Unit:mm

| Order No. | Model  | A     | A1  | B   | Clamping Range |       | D  | D1 | E   | F  | G  | H  | I  | J  | K    | L   | L1  | Q    | N.W. |
|-----------|--------|-------|-----|-----|----------------|-------|----|----|-----|----|----|----|----|----|------|-----|-----|------|------|
|           |        |       |     |     | C              | C1    |    |    |     |    |    |    |    |    |      |     |     |      |      |
| 65340-40  | HVL100 | 102   | 104 | 85  | 140            | 314.5 | 45 | 55 | 130 | 73 | 32 | 18 | 15 | 17 | 86.5 | 324 | 437 | 20   | 27kg |
| 65340-50  | HVL125 | 124.7 | 127 | 100 | 201            | 381.5 | 53 | 63 | 153 | 78 | 57 | 18 | 15 | 20 | 87.5 | 390 | 480 | 22.5 | 43kg |
| 65340-60  | HVL160 | 159.2 | 161 | 115 | 295            | 479   | 53 | 63 | 168 | 86 | 49 | 18 | 18 | 20 | 80   | 485 | 625 | 25   | 67kg |

# Milling Machine Accessories

**65350**

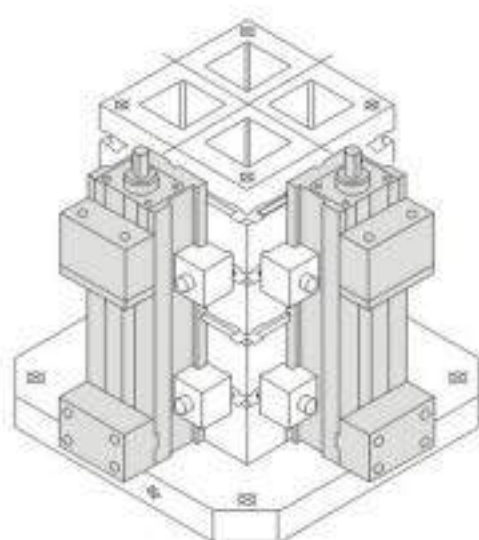
**HVQ**

**Mechanical Power Machine Vise**

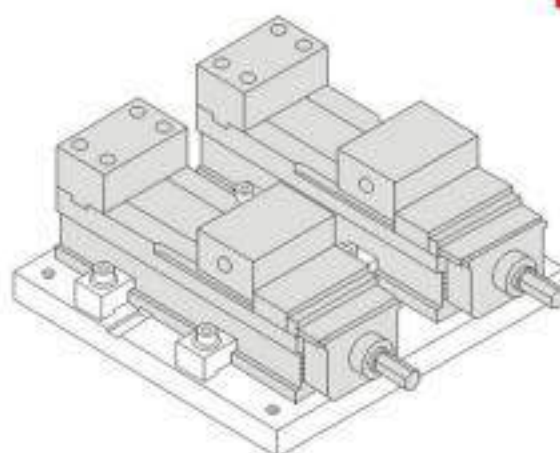


## Features:

- ▶ Unique Out-Jaw design increase the clamping capacity.
- ▶ Anti-Lift mechanism to ensure the workpiece does not lift during processing.
- ▶ Mechanical booster provides a steady clamping force against shocks and vibrations during operation by using "Disc-spring" mounted inside.
- ▶ Improved dust and water resistance which increase durability.
- ▶ Bed height deviation: within  $\pm 0.01\text{mm}$ .
- ▶ Distance from keyway to fixed jaw deviation: within  $\pm 0.01\text{mm}$ .
- ▶ Capable of vertical and lateral application and perform, accuracy within  $\pm 0.01\text{mm}$ .
- ▶ Made of Ductile Iron FCD60 JIS (80000psi).



Mechanical Booster



## Jaw Opening:

HVQ100, max. 140mm

HVQ125, max. 201mm

HVQ160, max. 295mm

HVQ200, max. 320mm

## Extended Opening:

HVQ160L, max. 330mm

HVQ200L, max. 367.5mm

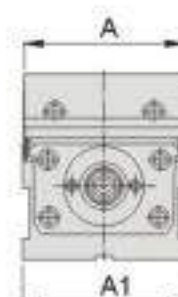
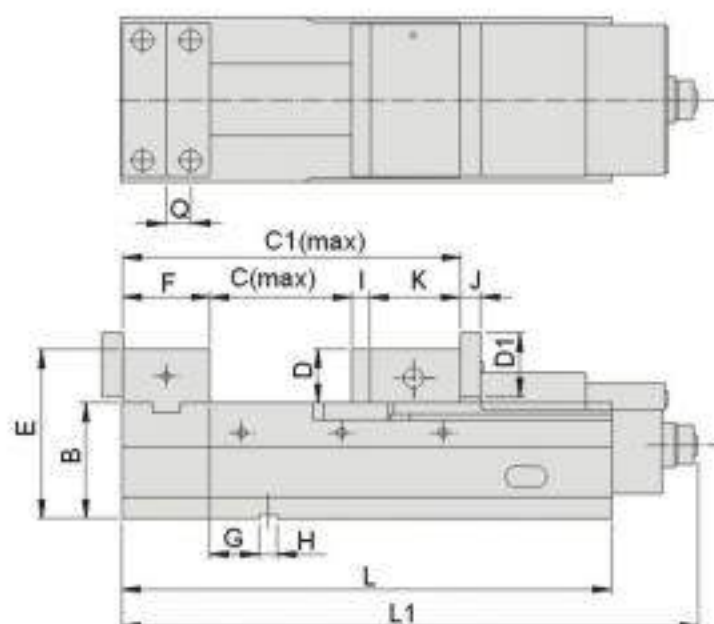
## Clamping force is adjustable with graduation lines:

HVQ100-4, max. 500kg/cm<sup>2</sup>

HVQ125-5, max. 000kg/cm<sup>2</sup>

HVQ160-5, max. 500kg/cm<sup>2</sup>

HVQ200-6, max. 500kg/cm<sup>2</sup>



Unit:mm

| Order No. | Model   | A     | A1  | B   | Clamping Range |       | D  | D1 | E   | F   | G  | H  | I  | J  | K    | L   | L1  | Q    | N.W.   |
|-----------|---------|-------|-----|-----|----------------|-------|----|----|-----|-----|----|----|----|----|------|-----|-----|------|--------|
|           |         |       |     |     | C              | C1    |    |    |     |     |    |    |    |    |      |     |     |      |        |
| 65350-40  | HVQ100  | 102   | 104 | 85  | 140            | 314.5 | 45 | 55 | 130 | 73  | 32 | 18 | 15 | 17 | 86.5 | 324 | 428 | 20   | 28.4kg |
| 65350-50  | HVQ125  | 124.7 | 127 | 100 | 201            | 381.5 | 53 | 63 | 153 | 78  | 57 | 18 | 15 | 20 | 87.5 | 390 | 495 | 22.5 | 46.0kg |
| 65350-60  | HVQ160  | 159.2 | 161 | 115 | 295            | 479   | 53 | 63 | 168 | 86  | 49 | 18 | 18 | 20 | 80   | 485 | 605 | 25   | 71.0kg |
| 65350-60L | HVQ160L | 159.2 | 161 | 115 | 330            | 514   | 53 | 63 | 168 | 86  | 67 | 18 | 18 | 20 | 80   | 515 | 635 | 25   | 76.0kg |
| 65350-80  | HVQ200  | 199.5 | 202 | 120 | 320            | 534   | 58 | 73 | 178 | 101 | 66 | 18 | 18 | 20 | 95   | 535 | 655 | 31   | 100kg  |
| 65350-80L | HVQ200L | 200   | 202 | 120 | 367.5          | 581.5 | 58 | 73 | 178 | 101 | 84 | 18 | 18 | 20 | 95   | 585 | 713 | 31   | 108kg  |

# Milling Machine Accessories

**65360**

**HPAC**

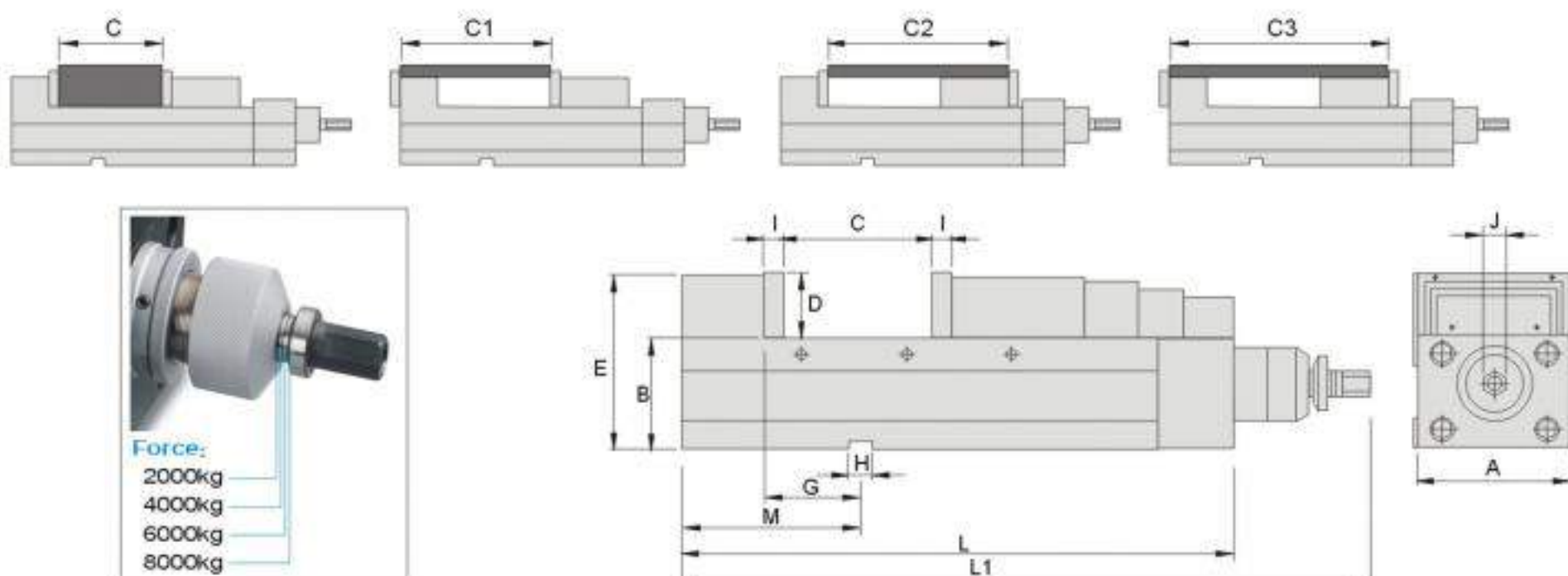
**Multi-Power CNC Precision Fixed Angle Vise**



Mechanical Booster makes repeat clamp accurately and max. clamping force up to 8000kgf

## Features :

- ▲ Made of Ductile Iron FCD60 JIS (80000psi) with one-piece body structure, the distortion volume is less than 0.01mm when bearing pressure 4500kg.
- ▲ Slide ways are hardened to HRC50° to enhance the wear-resistance and maintain same bed height each purchase.
- ▲ Angle-Lock design to ensure workpiece does not lift. Four datum design, the vise can be mounted both horizontally and vertically.
- ▲ Multi-Power System with built-in high grade bearing steel to double the clamping force. With the first half a turn, 2500kg force is delivered, then a second half turn will generate 4500kg force.
- ▲ Adjustable Stop Ring, simple and effective presetting the vise to present desire clamping force and it repeats accurately each time.



**SPECIFICATIONS** (Material: FCD 60, Ductile Iron, Hardness: HRC50°)

Unit:mm

| Order No. | Model   | A   | B<br>±0.01 | Clamping Range |        |         |         | D  | E   | G<br>±0.02 |
|-----------|---------|-----|------------|----------------|--------|---------|---------|----|-----|------------|
|           |         |     |            | C              | C1     | C2      | C3      |    |     |            |
| 65360-130 | HPAC130 | 131 | 95         | 0-190          | 70-260 | 115-305 | 185-375 | 55 | 147 | 80         |
| 65360-160 | HPAC160 | 161 | 105        | 0-250          | 85-325 | 140-375 | 220-460 | 58 | 160 | 80         |
| 65360-200 | HPAC200 | 201 | 110        | 0-290          | 90-380 | 155-440 | 240-530 | 63 | 170 | 100        |

| Order No. | Model   | H  | I  | J  | L   | L1  | M   | N.W.   |
|-----------|---------|----|----|----|-----|-----|-----|--------|
| 65360-130 | HPAC130 | 18 | 15 | 19 | 475 | 583 | 150 | 44.4kg |
| 65360-160 | HPAC160 | 18 | 15 | 19 | 560 | 670 | 165 | 65kg   |
| 65360-200 | HPAC200 | 18 | 18 | 19 | 635 | 743 | 197 | 95kg   |

**65370**
**HPAQ**
**Multi-Power CNC Precision Fixed Angle Vise**

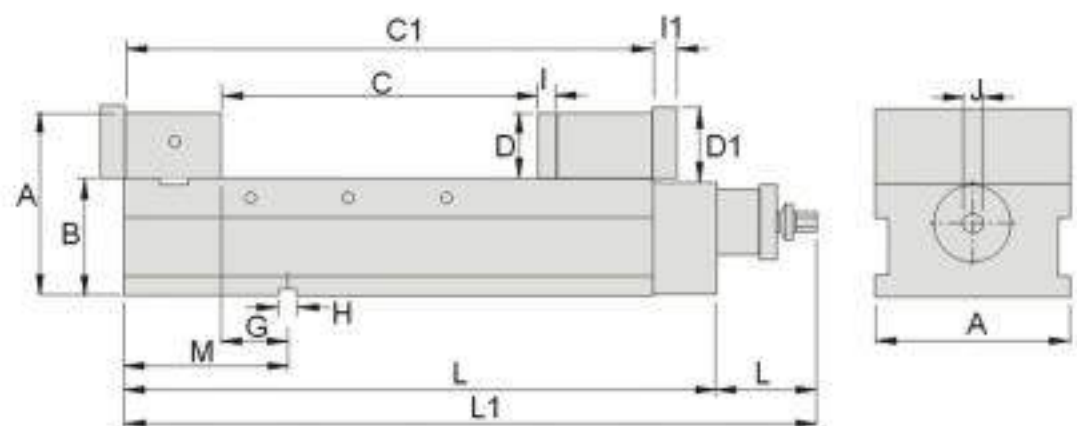

Mechanical Booster makes repeat clamp accurately and max. clamping force up to 8000kgf

The Multi-Power System built of high grade bearing steel provides consistent clamping pressure and eliminates all leakage and maintenance problems with hydraulic vises.



### Features :

- ▶ Made of Ductile Iron FCD60 JIS (80000psi) with one-piece body structure, the distortion volume is less than 0.01mm when bearing pressure 4500kg.
- ▶ Fixed Jaw is made by high quality steel and hardened to HRC55°.
- ▶ Slide ways are hardened to HRC50° to enhance the wear-resistance and maintain same bed height each purchase.
- ▶ Angle-Lock design to ensure workpiece does not lift.
- ▶ Four datum design, the vise can be mounted both horizontally and vertically.
- ▶ Multi-Power System with built-in high grade bearing steel to double the clamping force.
- ▶ With the first half a turn, 2500kg force is delivered, then a second half turn will generate 4500kg force.
- ▶ Adjustable Stop Ring, simple and effective presetting the vise to present desire clamping force and it repeats accurately each time.



Unit:mm

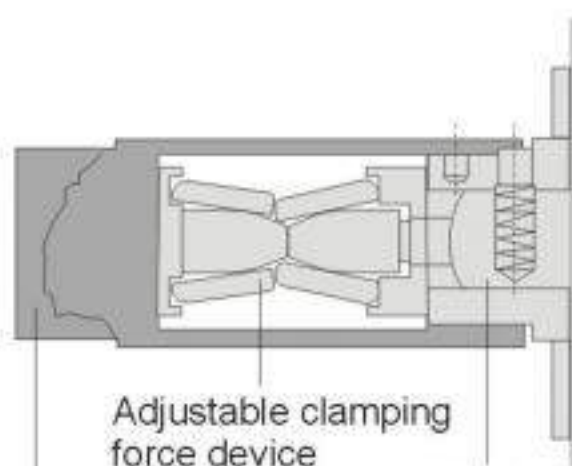
| Order No. | Model   | A   | B<br>±0.01 | Clamping Range |         | D  | D1 | E   | G<br>±0.02 |
|-----------|---------|-----|------------|----------------|---------|----|----|-----|------------|
|           |         |     |            | C              | C1      |    |    |     |            |
| 65370-160 | HPAQ160 | 160 | 115        | 0-300          | 195-490 | 53 | 63 | 168 | 57         |
| 65370-200 | HPAQ200 | 200 | 120        | 0-320          | 220-540 | 66 | 75 | 187 | 66         |
| 65370-250 | HPAQ250 | 250 | 120        | 0-350          | 220-580 | 66 | 75 | 187 | 66         |

| Order No. | Model   | H  | I  | I1 | J  | L   | L1  | M   | Max.Force | N.W.  |
|-----------|---------|----|----|----|----|-----|-----|-----|-----------|-------|
| 65370-160 | HPAQ160 | 18 | 15 | 21 | 19 | 560 | 677 | 145 | 8000kg    | 73kg  |
| 65370-200 | HPAQ200 | 18 | 18 | 25 | 19 | 637 | 754 | 168 | 8000kg    | 113kg |
| 65370-250 | HPAQ250 | 18 | 18 | 25 | 19 | 646 | 763 | 168 | 8000kg    | 156kg |

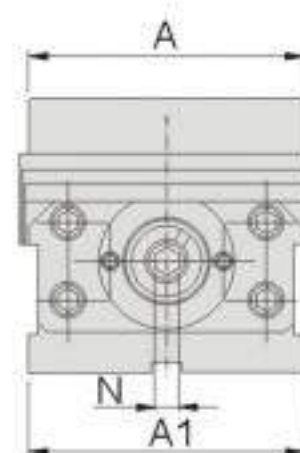
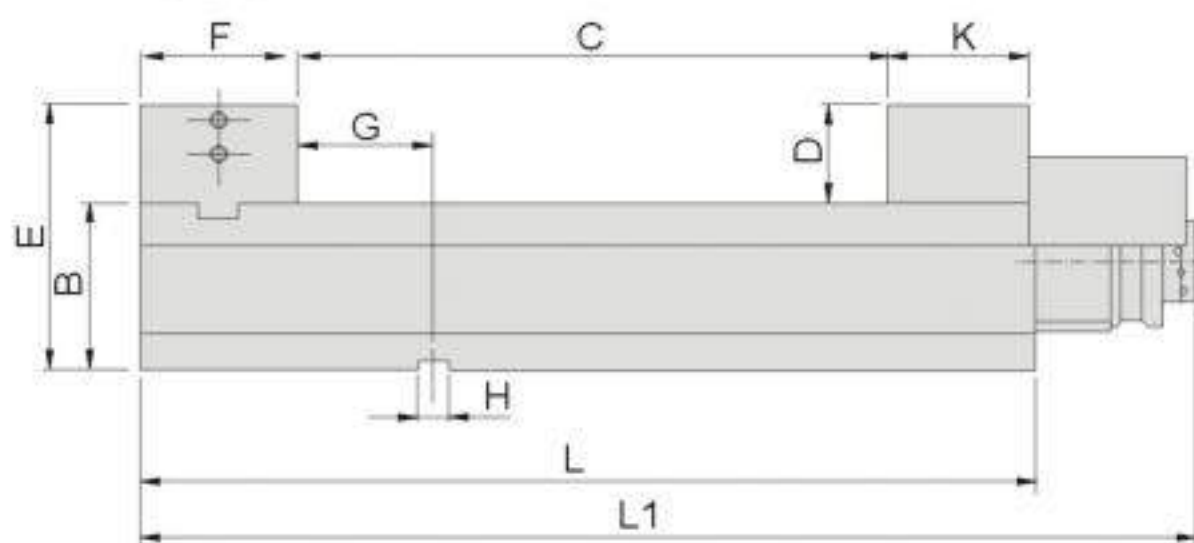
**65380**
**JQV**
**Ultra-low Height Mechanical Power Vise**


### Features :

- ▶ Low bed height and large opening design. Made of Ductile Iron FCD60 JIS (80000psi) with one-piece body structure, the distortion volume is minimum.
- ▶ Slide way is high frequency inducted hardened HS65°.
- ▶ Special Anti-Lift mechanism, prevent any lifting while clamping.
- ▶ Jaw plate is made of S50C and hardened to HRC50° to enhance the wear-resistance and maintain same bed height each purchase.
- ▶ Angle-Lock design to ensure workpiece does not lift.
- ▶ The vise can be mounted both horizontally and vertically.
- ▶ Dust cover is provided for protection.



Adjustable clamping force device  
Clamping Collar      Driving device



Unit:mm

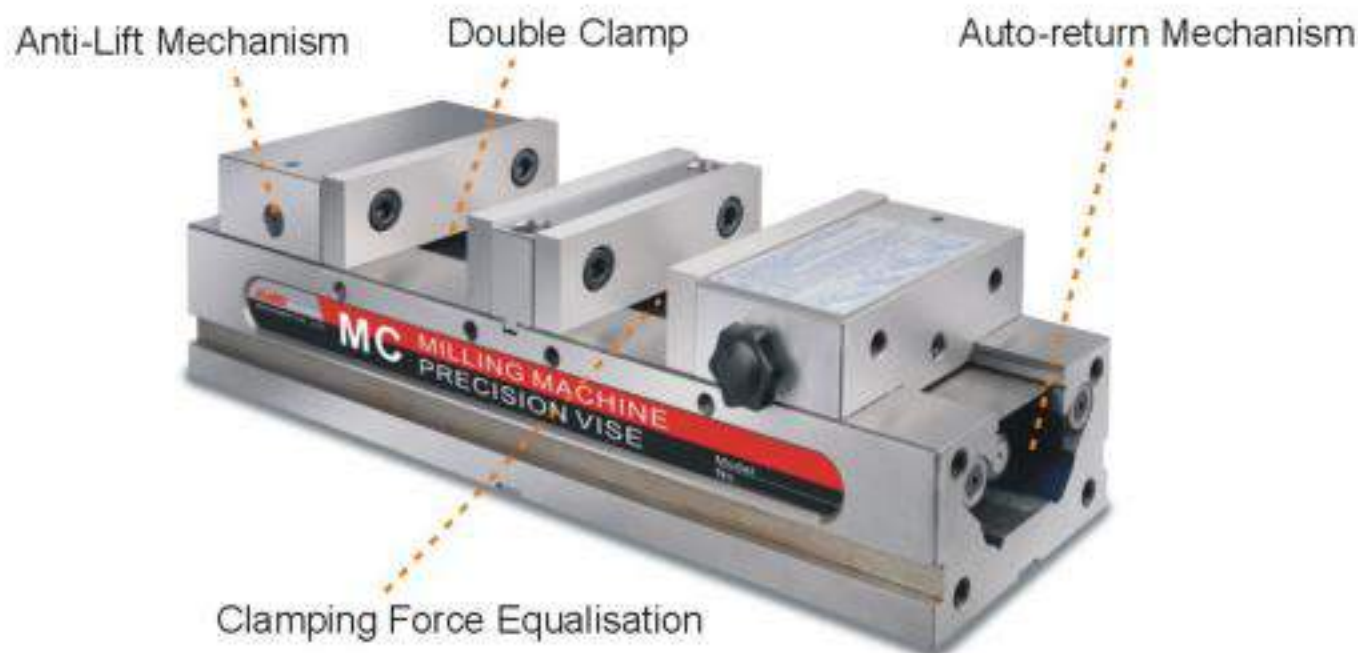
| Order No. | Model   | A     | A1  | B   | C   | D  | E   | F  | G  | H  | K  | L   | L1  | N  | Force  | N.W. |
|-----------|---------|-------|-----|-----|-----|----|-----|----|----|----|----|-----|-----|----|--------|------|
| 65380-01  | JQV160S | 159.5 | 161 | 105 | 235 | 60 | 165 | 86 | 59 | 18 | 86 | 416 | 515 | 14 | 5000kg | 55kg |
| 65380-02  | JQV160M | 159.5 | 161 |     | 275 |    | 165 | 86 | 59 | 18 | 86 | 456 | 555 |    |        | 57kg |
| 65380-03  | JQV160L | 159.5 | 161 | 100 | 305 |    | 160 | 86 | 59 | 18 | 86 | 486 | 585 |    |        | 60kg |

# Milling Machine Accessories

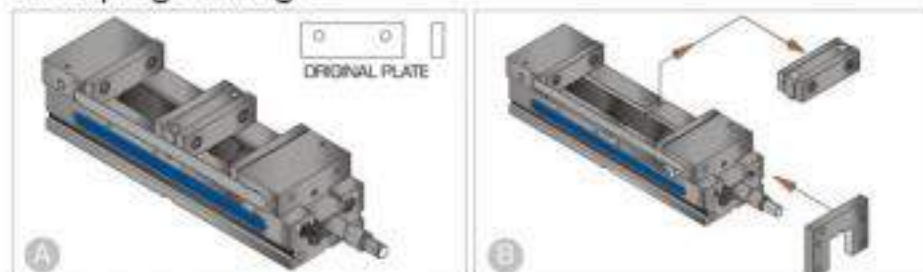
**65390**

**TLD**

**Precision Super Vise**



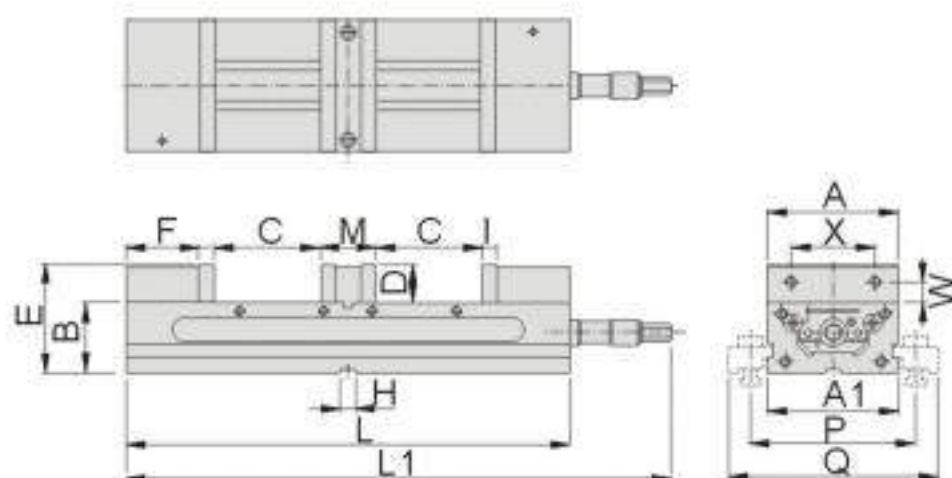
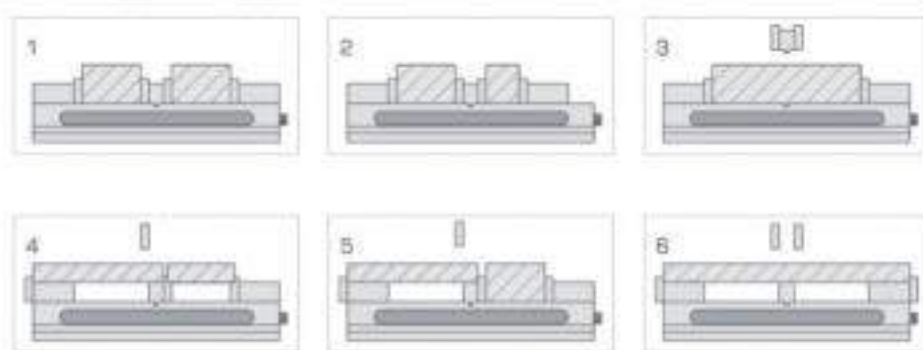
## Clamping Change



Original clamp can hold 0-125mm & 0-90mm workpiece.

Remove the middle jaw and lock the plate to fixed one movable jaw, then the other movable jaw can hold workpiece 125-135mm.

## Four types applications



## Features:

- ▶ Clamping force equalisation: same force to two workpiece in different size.
- ▶ Anti-lift mechanism: ensure the workpiece does not lift during operation.
- ▶ Double clamp makes different size of workpieces can be clamped at the same time.
- ▶ Made of Ductile Iron FCD60 JIS (80,000psi), high-frequency flame hardened Hs65°.
- ▶ Jaw plate is made of S50C and hardened to HRC45° to enhance the wear-resistance.
- ▶ Repeat accuracy to  $V1 \pm 0.015\text{mm}$

Unit:mm

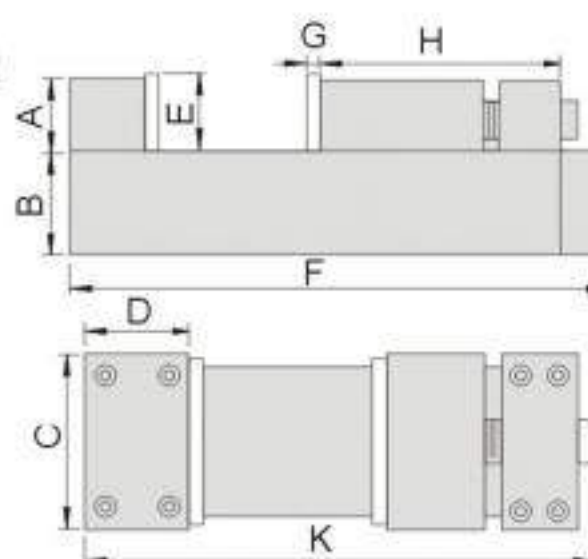
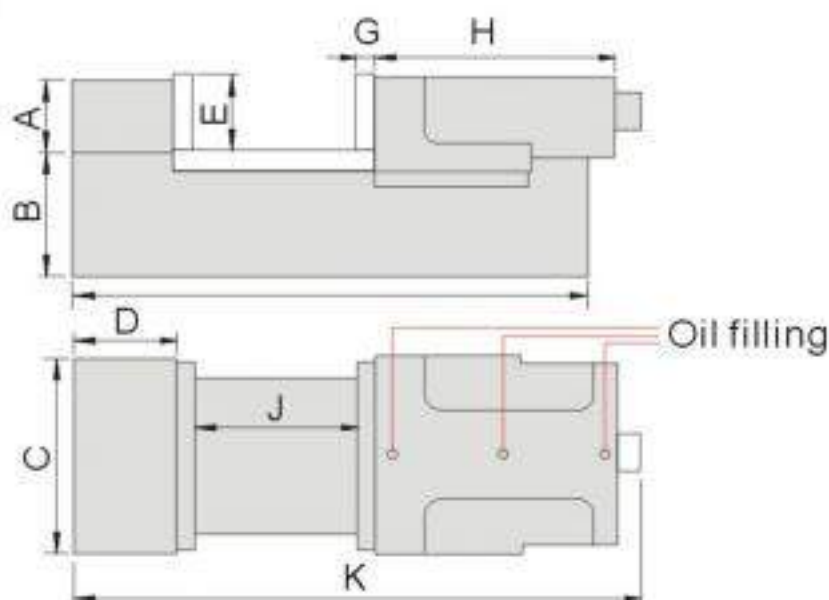
| Order No. | Model | A   | A1  | B     | C     | D    | E   | F    | H  | I  | L   | L1  | M  | P   | Q   | W    | X    | N.W. |
|-----------|-------|-----|-----|-------|-------|------|-----|------|----|----|-----|-----|----|-----|-----|------|------|------|
| 65390-40  | TLD40 | 102 | 104 | 63.5  | 0-90  | 38   | 101 | 69   | 18 | 15 | 405 | 459 | 55 | 143 | 195 | 17.5 | 63.5 | 20kg |
| 65390-60  | TLD60 | 152 | 154 | 82.55 | 0-125 | 44.5 | 127 | 86.5 | 18 | 18 | 520 | 536 | 66 | 193 | 245 | 23.8 | 98.4 | 52kg |

**65410**
**LY**
**MC Pneumatic Power Vise**
**LY1212**

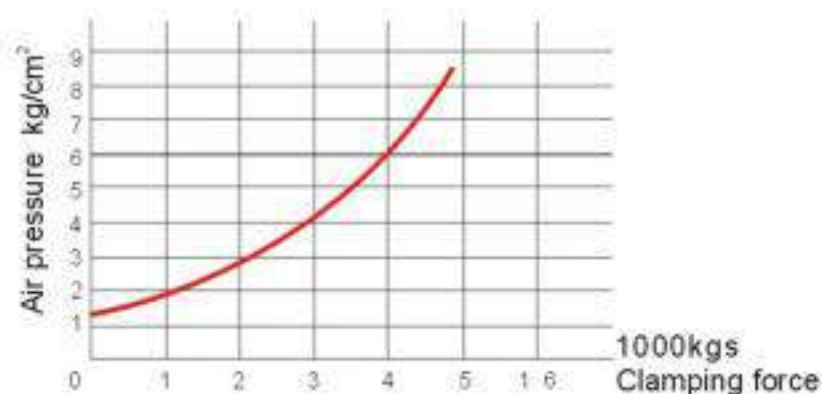
**LY1621**


### Features:

- ▶ Special 5 times booster with lever, only take 0.5 second to clamp off.
- ▶ Design with check valve design avoiding air pressure lost increasing safety.
- ▶ Flat surface no slot between slide guide rail preventing chip and burr go inside.
- ▶ Made of quality FCD-65 Ductile Iron body with hardened HRC50° and ground precisely with durability.

**LY1212**

**LY1621**


Air pressure 2~7kg/cm<sup>2</sup> Clamping force 400~4000kgs



| Order No. | Model  | A  | B   | C   | D  | E  | F   | G  | H   | J   | K   | Clamping force(kg) | Safety range | N.W. |
|-----------|--------|----|-----|-----|----|----|-----|----|-----|-----|-----|--------------------|--------------|------|
| 65410-01  | LY1212 | 50 | 105 | 120 | 60 | 53 | 453 | 15 | 190 | 127 | 424 | 200~3000           | 5mm          | 35kg |
| 65410-02  | LY1621 | 60 | 105 | 160 | 85 | 60 | 480 | 15 | 335 | 210 | 685 | 400~4000           | 5mm          | 55kg |

Unit:mm

# Milling Machine Accessories

**65430**

GPV

**MC Precision Super Hi-pressure Rapid Vise**



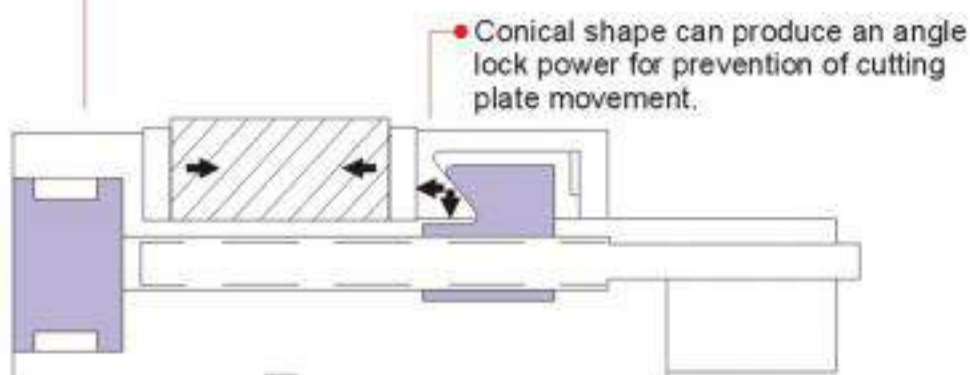
## Features:

- ▶ The principle of this vise is adopting the reciprocating pneu. motor(pat. structure) which R&D by inhouse and that employs an air actuated cylinder. Circuiting progressively to make automation, no need the R.F.L. unit to filter the moisture, The sole character is superior than any brand in domestic & international market.
- ▶ **Super hi-gripping force**  
Even the air source at low pressure  $8\text{kg/cm}^2$  which can be achieved super hi-gripping force  $9000\text{kgf}$ . and the  $0-9000\text{kgf}$  gripping force can be adjusted freely by pressure regulator.
- ▶ **Seeking the highest air source automatically.**  
When processed copper, aluminium etc, non-iron workpiece or raw cast iron etc., making heavy cutting which can be made adaptable gripping force to ensure work piece clamping and with auto compensating & retaining pressure etc., functions.
- ▶ **The biggest safety clamping range:**  
The shifting speed is only  $1.5\text{sec}$ . with safety cange:  $8\text{mm}$ , and can be visible the clamped work piece safety range is exceeded or not.
- ▶ **Triple usage of vertical. side. horizontal:**  
Six faces If vise body be super grinding & pre-setting holding slot, and can be processed vertically without jig fixture.
- ▶ **Super rugged material:**  
The vise body is sdopted hi-tensile graphite casting iron (FCD-60) .On-piece design and harden heat-treatment (HRC 45) at two slidaway which ensured hi-precision, hi-durability & hi-tensile.
- ▶ **Submersed angle fixed pressed down structure**

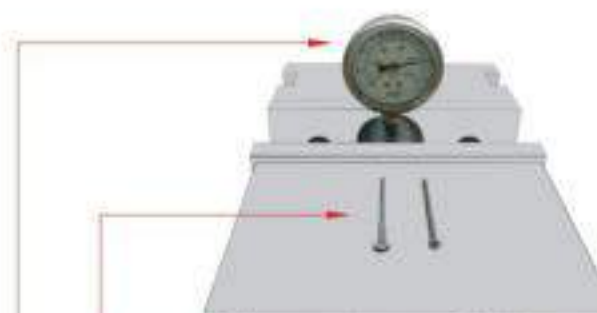


Booster

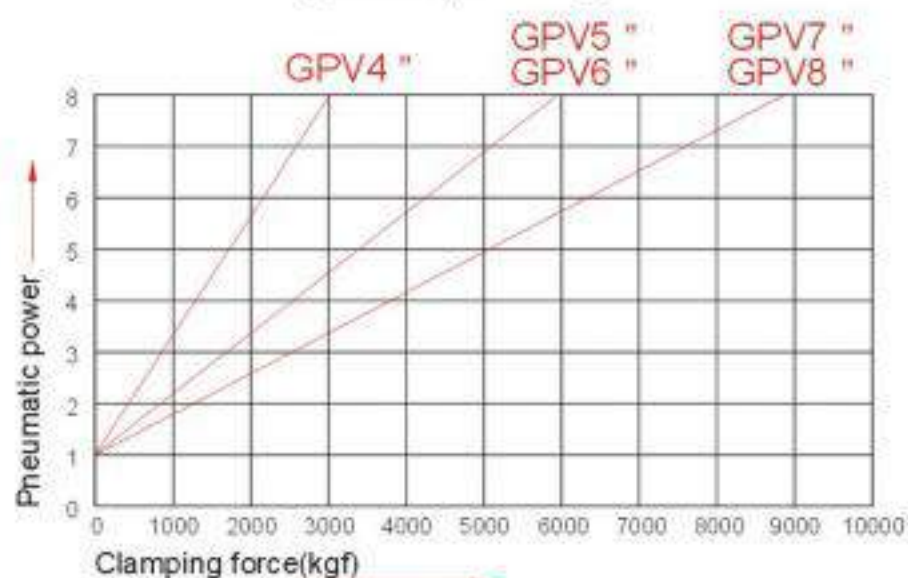
- Forward output pressure can product two-way power for reducing main body from becoming deformed and working parts will be more accurate.

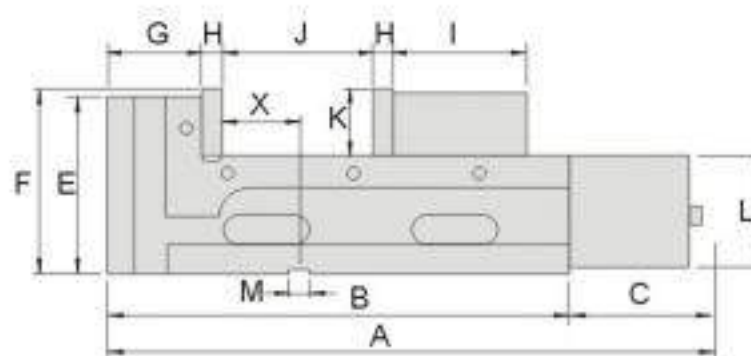


- Conical shape can produce an angle lock power for prevention of cutting plate movement.

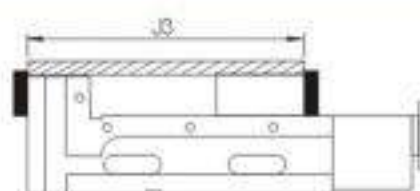
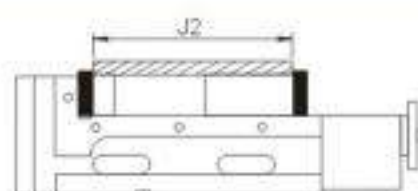
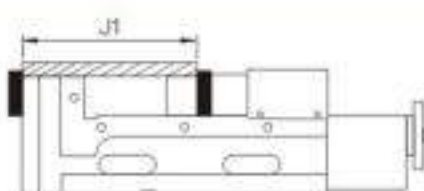
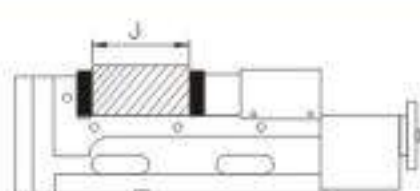


Only way to press flat type nails is the automatic pressure compensate system.  
 $8\text{kg/cm}^2$  low pressure former can holding very high force up to  $9000\text{kgf}$ .



**65430**
**GPV**
**MC Precision Super Hi-pressure Rapid Vice**


## FOUR DIFFERENT CLAMPING APPROACHES



| No. | INSPECTION ITEMS                                                            | 100mm | GUARANTEED | 1 | 5 |
|-----|-----------------------------------------------------------------------------|-------|------------|---|---|
| 1   | The levelness of this vice's bottom with sliding face.                      |       | 0.015mm    |   |   |
| 2   | The verticality of the end of clamp with bottom.                            |       | -0.02mm    |   |   |
| 3   | The verticality of side with sliding face.                                  |       | 0.02mm     |   |   |
| 4   | The level of vice opening with the T-type flute of this unit's bottom.      |       | 0.02mm     |   |   |
| 5   | The verticality of vice opening with the T-type flute of this unit's bottom |       | 0.02mm     |   |   |
| 6   | The level of the top clamped test block with this unit's bottom.            |       | 0.02mm     |   |   |
| 7   | The excess amount of clamped test block to this unit's bottom.              |       | 0.02mm     |   |   |
| 8   | The right angle of this vertical unit to bottom of this unit.               |       | 0.02mm     |   |   |

| Unit:mm   |             |     |     |     |     |     |     |    |    |     |       |         |         |         |    |     |    |    |          |      |
|-----------|-------------|-----|-----|-----|-----|-----|-----|----|----|-----|-------|---------|---------|---------|----|-----|----|----|----------|------|
| Order No. | Model       | A   | B   | C   | D   | E   | F   | G  | H  | I   | J     | J1      | J2      | J3      | K  | L   | M  | X  | Gripping | N.W. |
| 65430-01  | GPV4 " -100 | 435 | 320 | 125 | 100 | 145 | 148 | 85 | 15 | 100 | 0-100 | 95-220  | 100-200 | 200-300 | 48 | 100 | 16 | 45 | 3200     | 27kg |
| 65430-02  | GPV5 " -150 | 505 | 380 | 125 | 130 | 157 | 160 | 85 | 15 | 110 | 0-150 | 95-250  | 110-275 | 200-380 | 55 | 105 | 18 | 45 | 6000     | 38kg |
| 65430-03  | GPV6 " -160 | 525 | 400 | 125 | 160 | 160 | 163 | 85 | 15 | 120 | 0-160 | 95-260  | 120-295 | 210-400 | 58 | 105 | 18 | 45 | 6000     | 48kg |
| 65430-04  | GPV6 " -250 | 615 | 490 | 125 | 160 | 160 | 163 | 85 | 15 | 120 | 0-250 | 95-350  | 120-395 | 210-490 | 58 | 105 | 18 | 45 | 6000     | 52kg |
| 65430-05  | GPV7 " -200 | 585 | 460 | 125 | 180 | 170 | 173 | 90 | 18 | 130 | 0-200 | 100-300 | 130-350 | 220-460 | 63 | 110 | 18 | 72 | 9000     | 65kg |
| 65430-06  | GPV8 " -200 | 595 | 470 | 125 | 200 | 170 | 173 | 90 | 18 | 140 | 0-200 | 100-310 | 140-360 | 230-470 | 63 | 110 | 18 | 72 | 9000     | 70kg |
| 65430-07  | GPV8 " -300 | 695 | 570 | 125 | 200 | 170 | 173 | 90 | 18 | 140 | 0-300 | 100-410 | 140-460 | 230-570 | 63 | 110 | 18 | 72 | 9000     | 79kg |

# Milling Machine Accessories

**65440**

GPS

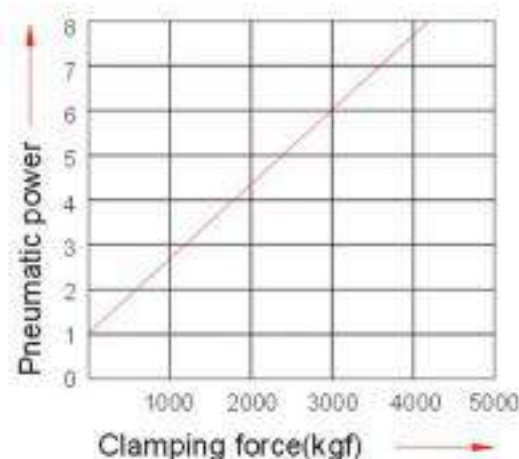
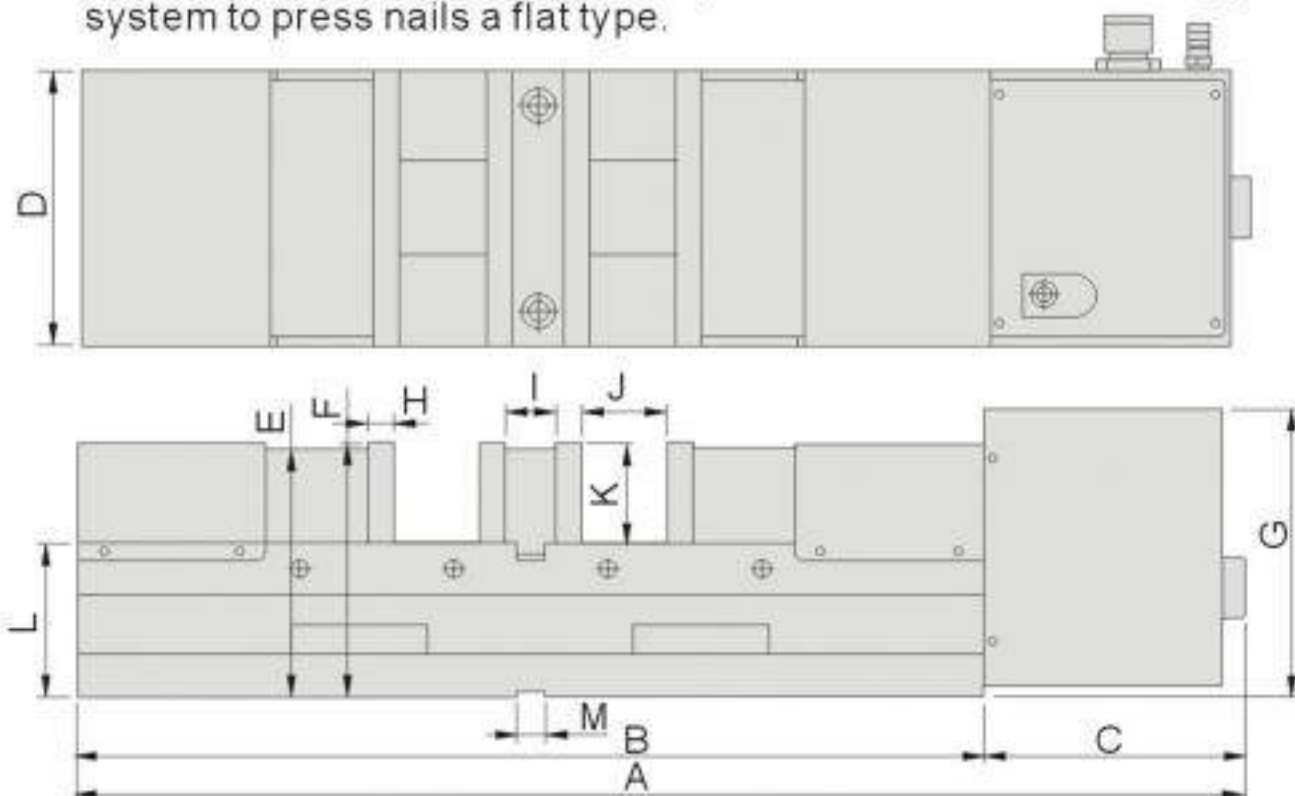
MC Super Hi-Pressure Double Vice



Only need 8kg/cm<sup>2</sup> of low air-pressure source to achieve 4000kgf of super hi-gripping force



By using automatic pressure compensate system to press nails a flat type.



## Features:

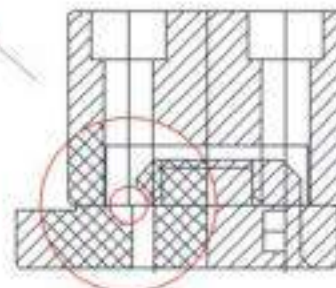
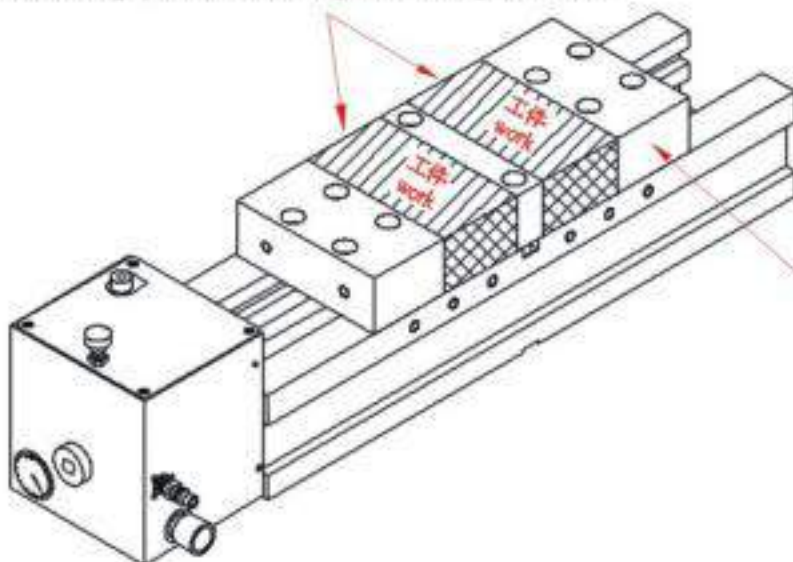
- ▶ This outstanding vice is adopt the reciprocating pneu. Motor(pat.structure)which is researched and developed by ourselves to push oil circuit in an air.pressure actuating manner,thus obtaining automation without the R.F.L unit to filter the moisture. So,such a characteristic is unique and distinctive in domestic and international market.
- ▶ **Super hi-gripping force**  
Only need 8kg/cm<sup>2</sup> of low air-pressure source to achieve 4000kgf of super hi-gripping force,and this gripping force can be adjusted within 0-4000kgf by using a pressure regulator.
- ▶ **Search the highest compressed air source automatically.**  
When processed copper, aluminium or heav machining castiron workpiece or raw cast iron,the pressure regulator can be set at a desired pressure without losing pressure.Besides,the gripping force can be kept to clamp the workpiece securly in auto compensating and pressure stabilizing functions.
- ▶ **The biggest safety clamping range:**  
The shifting speed is only 1.5sec.the double vise mechanism can be adjusted automatically and can simultaneously clamp two different workpieces in less than 5mm of size.
- ▶ **Super rugged material:**  
The body of the vice is integrally made of hi-tensile graphite casting iron(FCD-60).and is harden heat-treatment ( HRC 45)at its two slideway, thereby ensuring hi-precision,hi-durability & hi-tensile.
- ▶ **Submersed angle fixed pressed down structure**  
Submersed angle pressed structure in a semi-sphere shape to produce an angle lock power,thus preventing the cutting plate from movement.

Unit:mm

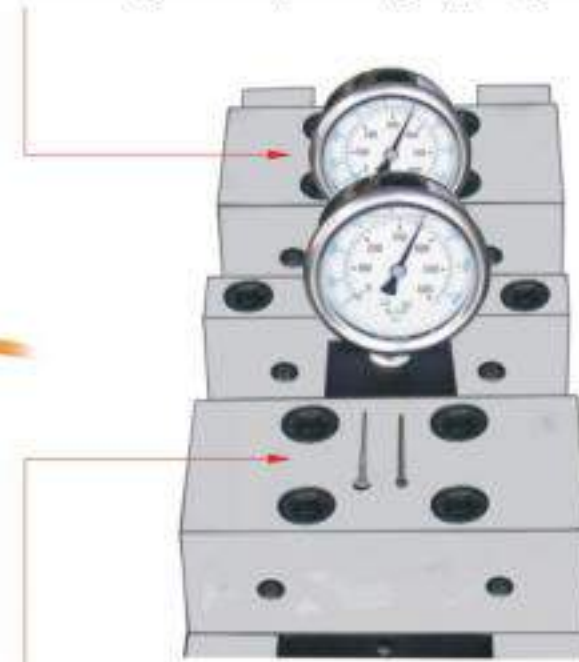
| Order No. | Model        | A   | B   | C   | D   | E   | F   | G   | H  | I  | J     | K  | L  | M  | Gripping | N.W. |
|-----------|--------------|-----|-----|-----|-----|-----|-----|-----|----|----|-------|----|----|----|----------|------|
| 65440     | GPS-6 " -100 | 682 | 530 | 152 | 160 | 145 | 148 | 168 | 15 | 30 | 0-100 | 58 | 90 | 18 | 4000     | 63kg |

**65450**
**GPQ**
**MC Super Hi-pressure Double Vise**

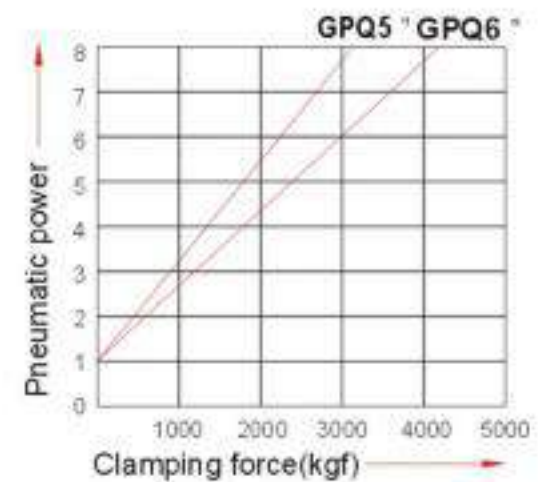

Please note that two workpieces, size difference shall be within 15mm avoiding possible tightening issue.



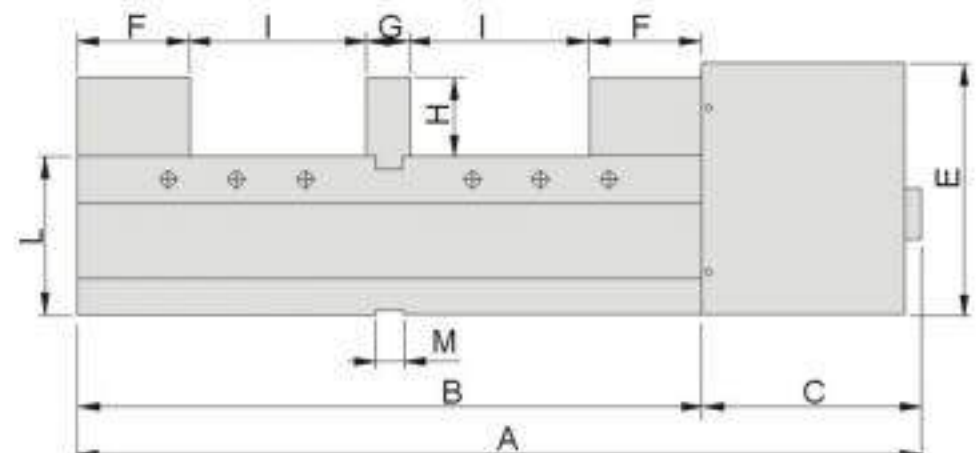
Only need 8kg/cm<sup>2</sup> of low air-pressure source to achieve 4000kgf of super hi-gripping force



By using automatic pressure compensate system to press nails a flat type.



Having built in floating pressing structure to provide downward lockce force to eliminate flotation of vise jaw and operational slope(patented structure)  
(locking slidable block of vise from upper screw, and no pressing force occurs)



單位:mm

| 訂購編號<br>Order No. | 型號<br>Model  | A   | B   | C   | D   | E   | F  | G  | H  | I     | L   | M  | 夾持力<br>Gripping | 重量<br>N.W. |
|-------------------|--------------|-----|-----|-----|-----|-----|----|----|----|-------|-----|----|-----------------|------------|
| 65450-01          | GPQ-5 " -110 | 556 | 410 | 146 | 130 | 166 | 74 | 30 | 52 | 0-110 | 105 | 18 | 3200            | 42kg       |
| 65450-02          | GPQ-6 " -150 | 656 | 510 | 146 | 160 | 168 | 82 | 30 | 55 | 0-150 | 105 | 18 | 4000            | 67kg       |

# Simple Indexing Spacer

**65500**

**BS**

**Semi-universal Center (Dividing Head)**



## Features:

- ▶ Plain type of Universal Index Center and can be applied for direct or indirect dividing.
- ▶ No accessories needed for the differential dividing & spiral work.
- ▶ Same construction of the dividing head & tailstock as the Universal type ones.
- ▶ 24 holes on the direct index plate allows direct dividing in 2,3,4,6,8,12 & 24.
- ▶ Three plates for indirect dividing in any number from 2 to 50 and uncertain numbers up to 380. Are standard accessories
- ▶ Operation and service manual included with each package.

## Application:



Optional Accessory:  
4" or 5" 3-Jaw (Order no.66800 for BS0)  
5" or 6" 3-Jaw (Order no.66800 for BS1)

## SEMI-UNIVERSAL INDEX CENTER (DIVIDING HEAD) SPECIFICATION

Unit:mm

| Order No. | Model | A   | B   | C   | D   | E  | F   | G   | N.W. |
|-----------|-------|-----|-----|-----|-----|----|-----|-----|------|
| 65500-01  | BS0   | 189 | 160 | 100 | 173 | 16 | 91  | 140 | 22kg |
| 65500-02  | BS1   | 293 | 210 | 128 | 220 | 16 | 114 | 156 | 36kg |

## TAILSTOCK SPECIFICATION

Unit:mm

| Order No. | a   | b   | c  | d   | e   | f   | Center Taper | Diameter of Spindle hole |
|-----------|-----|-----|----|-----|-----|-----|--------------|--------------------------|
| BS0       | 90  | 105 | 16 | 100 | 166 | 127 | B&S No.7     | 18                       |
| BS1       | 108 | 134 | 16 | 128 | 184 | 150 | B&S No.9     | 20                       |

## No. of holes of dividing plate (worm gear reduction ratio 1:40)

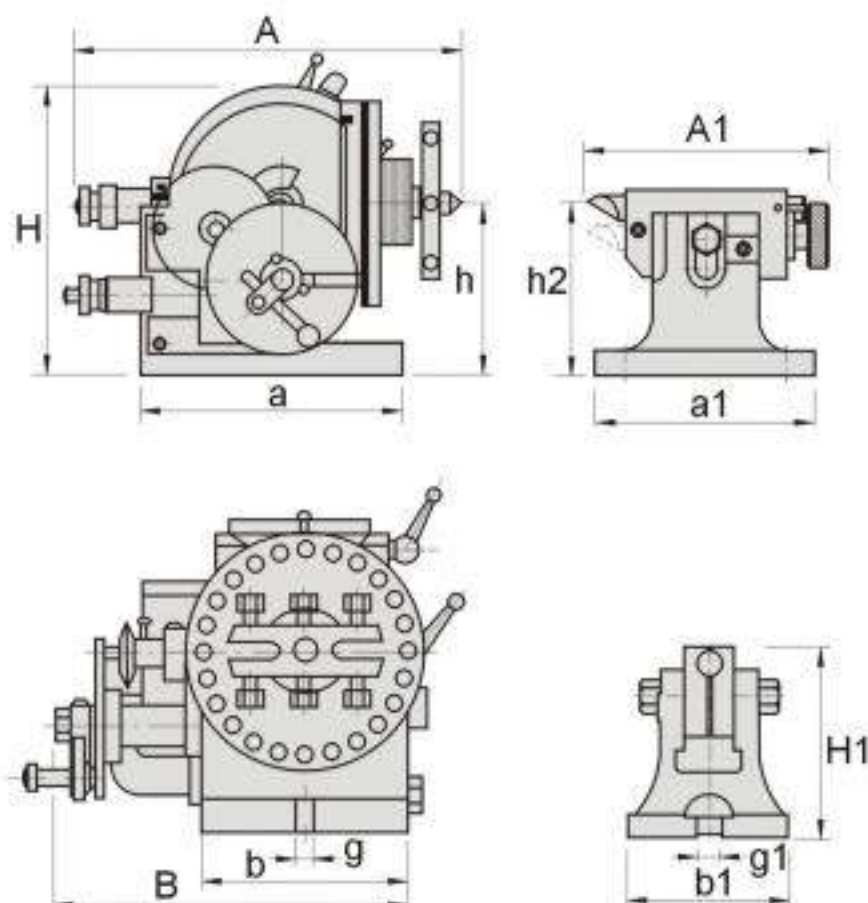
Unit:mm

| No. of Holes | Plate A | 15 | 16 | 17 | 18 | 19 | 20 |
|--------------|---------|----|----|----|----|----|----|
|              | Plate B | 21 | 23 | 27 | 29 | 31 | 33 |
|              | Plate C | 37 | 39 | 41 | 43 | 47 | 49 |

**65510**
**BS2**
**Universal Center (Dividing Head)**


### Features :

- ▶ Designed for carrying out all types of gear cutting. Precision dividing and spiral work are more efficient than ever.
- ▶ The center face can be tilted from a horizontal position of  $90^\circ$  down to  $-10^\circ$  from vertical with graduation reading in degrees.
- ▶ The ratio of worm to gear is 1:40.
- ▶ Fully inspected and tested to assure.
- ▶ Operation and service manual included with each package.



### Application:



Optional Accessory:  
6" or 7" or 8" 3-Jaw (Order no. 66800 for BS2)

### SEMI-UNIVERSAL INDEX CENTER (DIVIDING HEAD) SPECIFICATION

Unit:mm

| Order No. | Model | A   | B   | H   | h     | a   | b   | g  | Center Taper |
|-----------|-------|-----|-----|-----|-------|-----|-----|----|--------------|
| 65510     | BS2   | 365 | 272 | 236 | 132.7 | 213 | 134 | 16 | B&S NO 10    |

### TAILSTOCK SPECIFICATION

Unit:mm

|     | A1  | a1  | b1  | g1 | H1  | Center Height<br>h2 |      | N.W. |
|-----|-----|-----|-----|----|-----|---------------------|------|------|
| BS2 | 194 | 177 | 125 | 16 | 147 | Max.                | Min. | 73kg |
|     |     |     |     |    |     | 138                 | 115  |      |

### No. of holes of dividing plate (worm gear reduction ratio 1:40)

Unit:mm

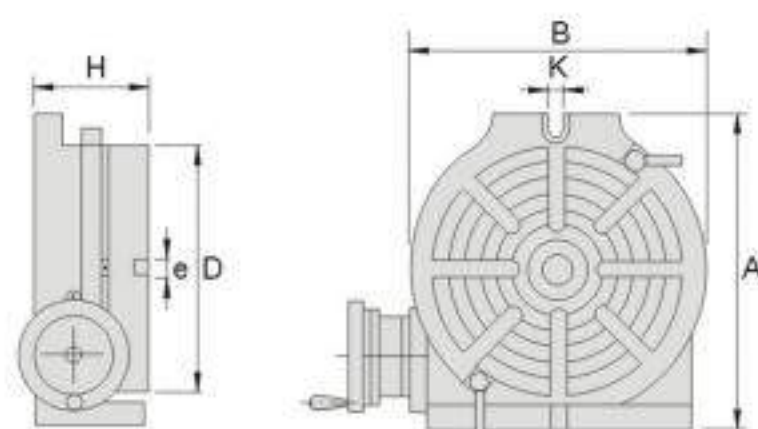
| No. of Holes | Plate A | 15 | 16 | 17 | 18 | 19 | 20 |
|--------------|---------|----|----|----|----|----|----|
|              | Plate B | 21 | 23 | 27 | 29 | 31 | 33 |
|              | Plate C | 37 | 39 | 41 | 43 | 47 | 49 |

# Simple Indexing Spacer

**65520**

**HV**

**HV Horizontal & Vertical Rotary Table**



## Optional Accessories:

- Tailstock(Order no.65530)
- Dividing Plate Set(Order no.65570)
- 3-Jaw Chuck(Order no.66800)

Unit:mm

| Order No. | Model | Table |     | Base |     | Bolt Slots | T-Slots | Center Sleeve | Worm Gear Ratio | Vertical Load Weight (kg) | Horizontal Load Weight (kg) | N.W.  |
|-----------|-------|-------|-----|------|-----|------------|---------|---------------|-----------------|---------------------------|-----------------------------|-------|
|           |       | D     | H   | A    | B   |            |         |               |                 |                           |                             |       |
| 65520-15  | HV150 | 150   | 92  | 220  | 160 | 18         | 11      | MT-2          | 90 : 1          | 20                        | 39                          | 13kg  |
| 65520-20  | HV200 | 200   | 120 | 310  | 225 | 18         | 13      | MT-3          |                 | 44                        | 87                          | 29kg  |
| 65520-25  | HV250 | 250   | 120 | 320  | 280 | 18         | 13      | MT-3          |                 | 62                        | 123                         | 41kg  |
| 65520-30  | HV300 | 300   | 140 | 410  | 325 | 18         | 16      | MT-4          |                 | 98                        | 195                         | 65kg  |
| 65520-35  | HV350 | 350   | 140 | 460  | 380 | 18         | 16      | MT-4          |                 | 147                       | 294                         | 98kg  |
| 65520-40  | HV400 | 400   | 140 | 510  | 435 | 18         | 16      | MT-5          |                 | 195                       | 390                         | 130kg |

**65530**

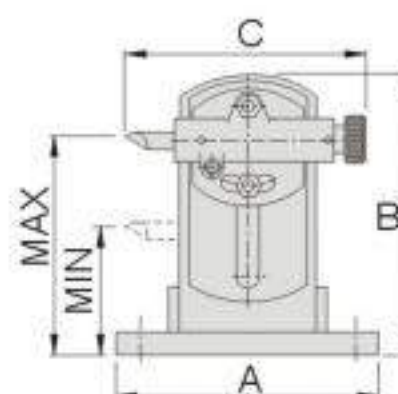
**TS**

**TS Tailstock**



## Features :

- Suitable for HV Series rotary table for accurate centering when up-right position, adjustable height on demand.



Unit:mm

| Order No. | Model | Compatible. | A   | B   | C   | Center Height |      | N.W. |
|-----------|-------|-------------|-----|-----|-----|---------------|------|------|
|           |       |             |     |     |     | Max.          | Min. |      |
| 65530-00  | TS150 | HV150       | 127 | 110 | 116 | 113           | 100  | 5kg  |
| 65530-01  | TS1   | HV200 / 250 | 230 | 247 | 210 | 190           | 110  | 13kg |
| 65530-02  | TS2   | HV300       | 230 | 280 | 210 | 220           | 140  | 15kg |
| 65530-03  | TS3   | HV350 / 400 | 230 | 330 | 210 | 264           | 184  | 17kg |

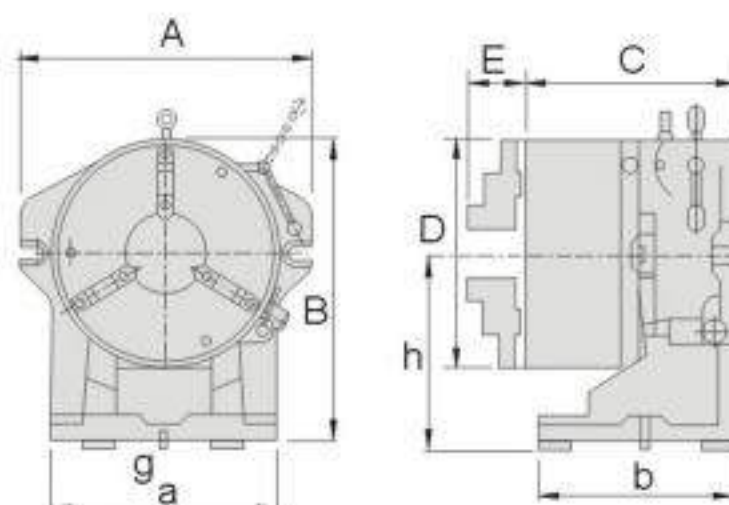
**65540**
**CC**
**CC Simple Indexing Spacer**

**Optional:**

Tailstock: see order no. 65550

**Features:**

- ▶ Suitable for applying on milling, drilling and other machine tools where indexing function is required. Can be used both laterally and up-right.
- ▶ The master indexing plate has built-in 24 divisions, for divisions of 2, 3, 4, 6, 8, 12 & 24 can also be achieved by apply the sub-plates.



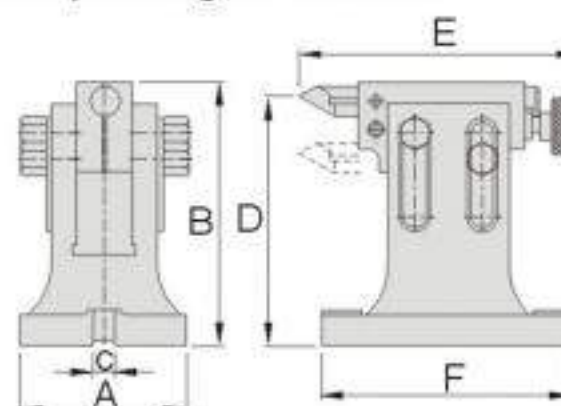
Unit:mm

| Order No. | Model | A   | B   | C   | D   | E  | a   | b   | h   | g  | Clamping Range | Thru.Hole Dia. |       | N.W. |
|-----------|-------|-----|-----|-----|-----|----|-----|-----|-----|----|----------------|----------------|-------|------|
|           |       |     |     |     |     |    |     |     |     |    |                | Plate          | Chuck |      |
| 65540-06  | CC6"  | 260 | 218 | 133 | 167 | 27 | 190 | 110 | 125 | 16 | ∅ 4~160        | 44             | 45    | 32   |
| 65540-08  | CC8"  | 312 | 270 | 157 | 210 | 28 | 220 | 135 | 150 | 16 | ∅ 4~180        | 63             | 58    | 55   |

**65550**
**TS**
**TS Tailstock**

**Features:**

- ▶ Support the workpiece and ensure accurate alignment when apply vertically.
- ▶ Tailstock height and live center distance can be adjusted depending on demand.



Unit:mm

| Order No. | Model | Compatible. | A   | B   | C  | Center Height |      | E   | F   | N.W. |
|-----------|-------|-------------|-----|-----|----|---------------|------|-----|-----|------|
|           |       |             |     |     |    | Max.          | Min. |     |     |      |
| 65550-04  | TS4   | CC6" & CS6" | 125 | 147 | 16 | 138           | 115  | 194 | 177 | 8.2  |
| 65550-05  | TS5   | CC8" & CS8" | 123 | 194 | 16 | 170           | 130  | 204 | 184 | 8.6  |

# Simple Indexing Spacer

**65560**

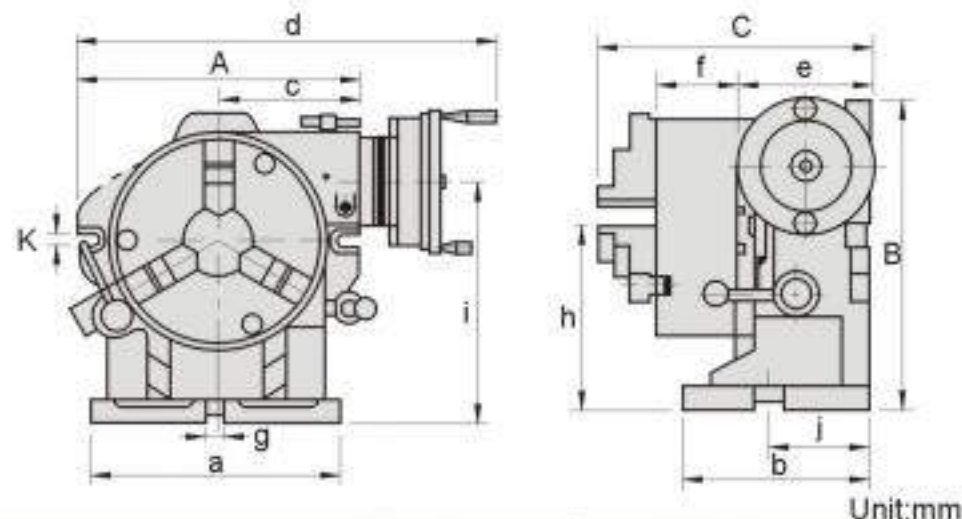
**CS**

**Super Index Spacer**



## Features :

- ▶ Plain type Indexing Spacer is suitable for applying on milling, grinding and other machines which requires indexing facility.
- ▶ The master indexing plate has built-in 24 divisions, for divisions of 2,3,4,6,8, and 12 can also be achieved by apply the sub-plates.



Unit:mm

| Order No. | Model | Dividable Number | Chuck          |           |           |           | Face Plate |           |
|-----------|-------|------------------|----------------|-----------|-----------|-----------|------------|-----------|
|           |       |                  | Outer Diameter | Inner Jaw | Outer Jaw | Inner Jaw | Outer Jaw  | Thickness |
| 65560-05  | CS6"  | 2,3,4,6          | 167            | 4-42      | 10-155    | 44        | 203        | 50        |
| 65560-15  | CS8"  | 8,12,24          | 210            | 4-62      | 10-180    | 63        | 254        | 58        |

| Model | A   | B   | C   | a   | b   | c   | d   | e   | f  | g  | h   | i   | j  | k  | N.W.   |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|----|----|--------|
| CS6"  | 250 | 224 | 190 | 190 | 140 | 117 | 420 | 97  | 65 | 16 | 130 | 198 | 84 | 18 | 49.1kg |
| CS8"  | 310 | 295 | 212 | 225 | 160 | 142 | 460 | 108 | 76 | 16 | 160 | 245 | 95 | 18 | 68kg   |

**65570**

**DP**

**Dividing Plate Set**



## FEATURES:

When using the Dividing plates (Dividing Mechanism) device, the indexing of 2 to 99 positions can be carried out accurately and rapidly with the use of two index plates, sector, crank handle, Etc.

No. of holes for DP-1:

|         |                   |
|---------|-------------------|
| Plate A | 15,16,17,18,19,20 |
| Plate B | 21,23,27,29,31,33 |
| Plate C | 37,39,41,43,47,49 |

No. of holes for DP-1,2,3 & 4:

|         |                                                       |
|---------|-------------------------------------------------------|
| Plate A | 26,28,30,32,34,37,38,39,41,43,44,46,47,49,51,53,57,59 |
| Plate B | 61,63,67,69,71,73,77,79,81,83,87,89,91,93,97,99       |

Unit:mm

| Order No. | Model | Dividing plate set screw | Inner diameter of sector arm | Outer diameter of spring clip | Groove width in handle plate | Suitable for  | N.W. |
|-----------|-------|--------------------------|------------------------------|-------------------------------|------------------------------|---------------|------|
| 65570-01  | DP1   | PCD $\phi$ 32            | 21                           | 18                            | 9                            | HV-150        | 2.5  |
| 65570-02  | DP2   | PCD(3holes)              | 29                           | 23                            | 10                           | HV200/250     | 4    |
| 65570-03  | DP3   | PCD(3holes)              | 33                           | -                             | 12                           | HV300/350/400 | 4    |
| 65570-04  | DP4   | PCD(3holes)              | 29                           | 44                            | 10                           | CS6"          | 4    |
| 65570-05  | DP5   | PCD(3holes)              | 29                           | 44                            | 10                           | CS8"          | 4    |

**65580**
**HCM-2**
**HCM Superior Universal Dividing Head**

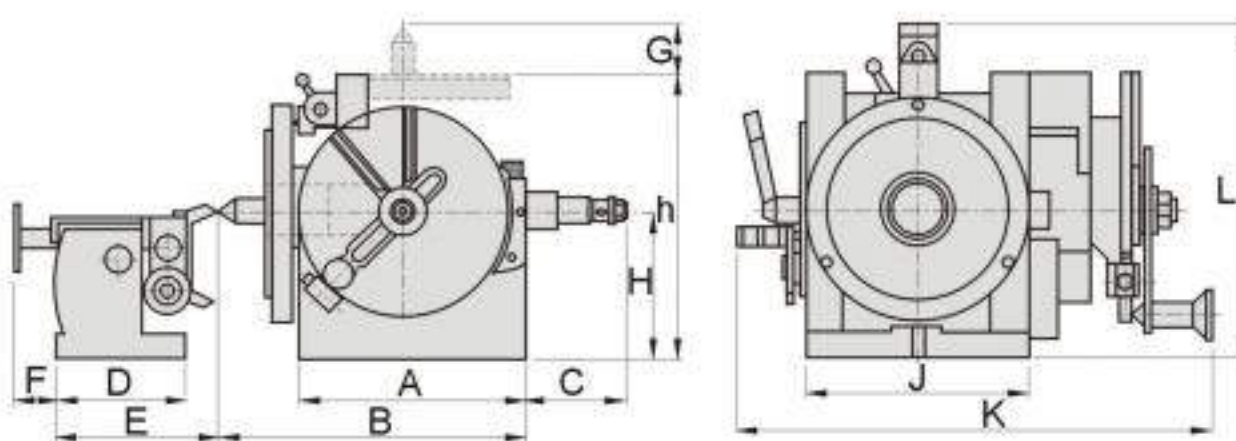

#### Application:



#### Optional Accessory:

7 " 3-Jaw Chuck(Order No.66800-07)

8 " 3-Jaw Chuck(Order No.66800-08)

 Tailstock Center Height  
 Max. 165mm  
 Min. 38mm


#### Features :

- ▶ Can be used for simple dividing and also for producing worms by utilizing the change gears and quadrant.
- ▶ 55.5mm though hole and MT6 Taper, it can also be tilted from 0 to 90°.
- ▶ The Spindle, Worm and Gear are made of high grade steel, hardened and preicison ground.
- ▶ The Tailstock is designed with a dovetail construction for high alignment accuracy and adjustment.
- ▶ Reduction ratio of 40:1, side index plate provides the unit.
- ▶ Providing divisions on face A of 24,25,28,30,34, 37,39,41,42&43.
- ▶ Providing divisions on face B of 46,47,49,51,53, 54,57,58,59,62,&66.
- ▶ Spiral shifting can provide 24,28,32,38,40,44,48, 56,64,82,86 and 100 teeth which is wide range to function.
- ▶ Each set consists of Center, Gear Quadrant,
- ▶ Change Gear Set, Tailstock and Dividing Plate.

 SIMPLE INDEXING  
 SPACER

| Order No. | Model | A   | B   | C   | D   | E   | F  | G  |
|-----------|-------|-----|-----|-----|-----|-----|----|----|
| 65580     | HCM-2 | 245 | 322 | 152 | 166 | 198 | 50 | 52 |

Unit:mm

| Order No. | Model | H   | h   | J   | K   | L   | N.W.  |
|-----------|-------|-----|-----|-----|-----|-----|-------|
| 65580     | HCM-2 | 143 | 278 | 194 | 465 | 290 | 132kg |

# Simple Indexing Spacer

**65590**

**SD7**

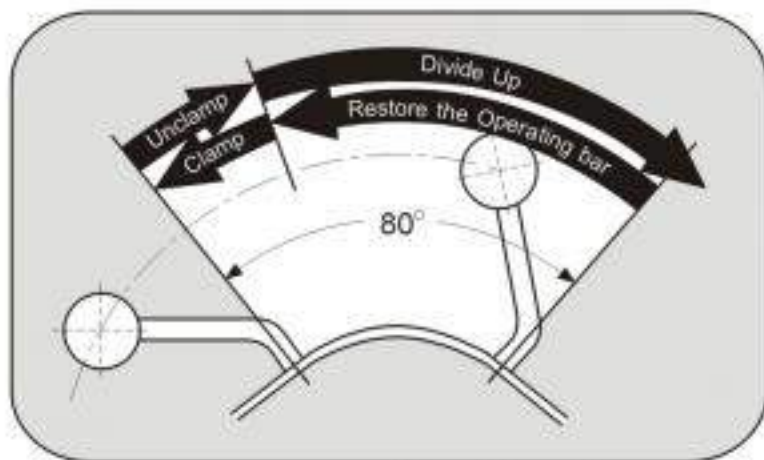
**Super Divider**



N.W. 32kg

## OPTIONAL ACCESSORY:

- 7"-Jaw Chuck.



ø192 3-Jaw

3-Jaw Chuck Range  
Inner Jaw... ø3.0~ø53mm  
Outer Jaw... ø73~ø146mm



## Caution:

1. Do not move the Lever until the Divider has been fitted on the machine table. The Lever can only be operated once the unit is clamped firmly on the machine.
2. Always return the Lever to the clamped position after each movement to prevent jamming
3. Do not force the Lever if it should be jammed through mis-operation, simply turn the Selector Pin to the passing position in order to free the Lever.
4. Do not commence machining until the plunger has stopped the Table from rotating and the Lever has been returned to the clamped position.

## SPECIFICATIONS:

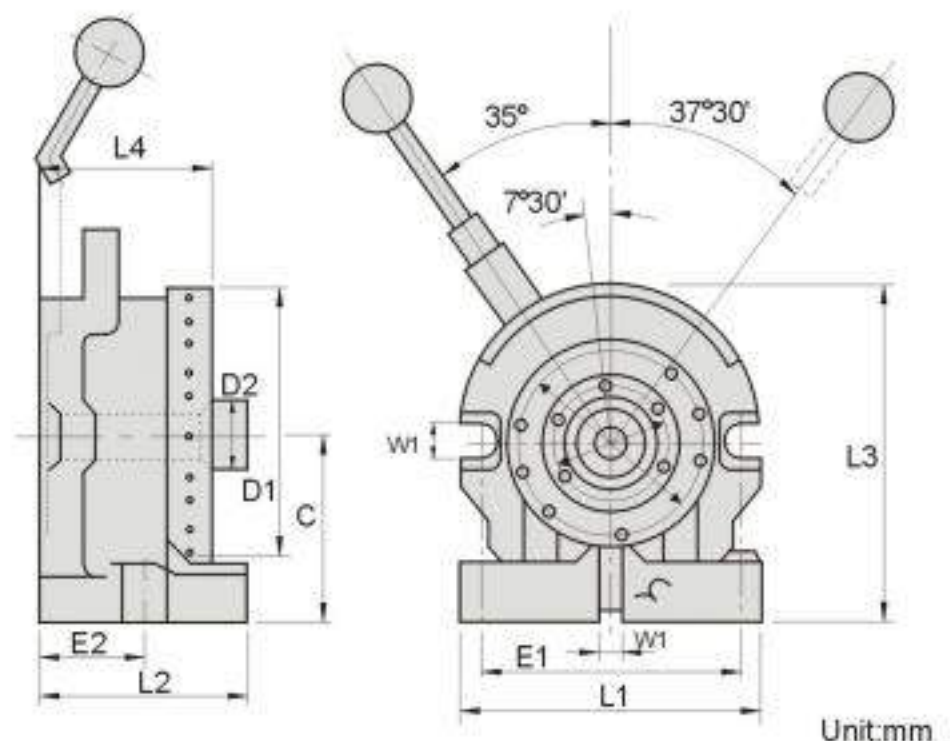
| Order No. | Model | C   | D1  | E1  | E2 | W1 |
|-----------|-------|-----|-----|-----|----|----|
| 65590     | SD7   | 138 | 192 | 230 | 80 | 16 |

| Model | L1  | L2  | L3  | L4  | Loading Capacity | N.W. |
|-------|-----|-----|-----|-----|------------------|------|
| SD7   | 260 | 160 | 273 | 132 | Max.50kg         | 32kg |

## Features:

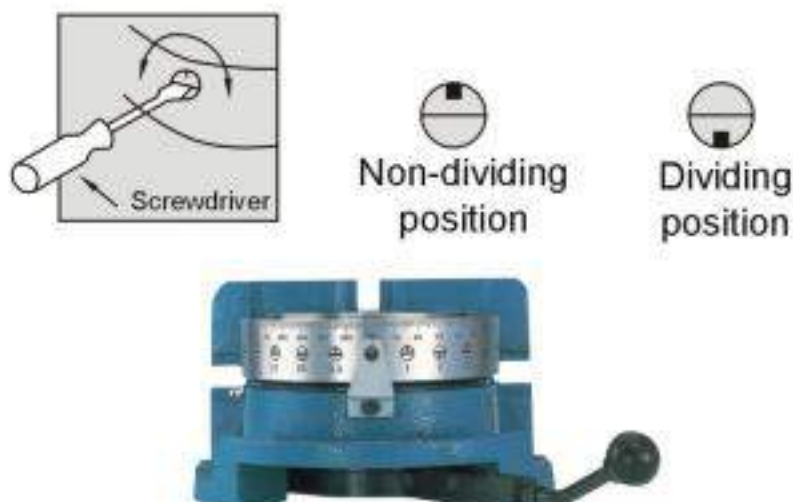
- ▶ The total operating process can be completed by using the Operating Bar.  
The procedure is "unclamp" - "divide up" - "Restore the Operating Bar Automatic clamping", which can be finished at one step.  
The Super Divider has sufficient and more powerful clamping force than that of conventional Divider.
- ▶ When dividing job is required, only turn the Select Pin at the side of circumference in the table by driver. It can be repeated several thousands times for continuous operation.
- ▶ Our Super Divider is especially designed to achieve smooth, efficient operation. It has been designed with new mechanism, not the traditional idea or theory.
- ▶ The Super Divider has dividing capability of 24 equal parts 2,3,6,8,12,24 and unequal dividing in 15 unit.



Unit:mm

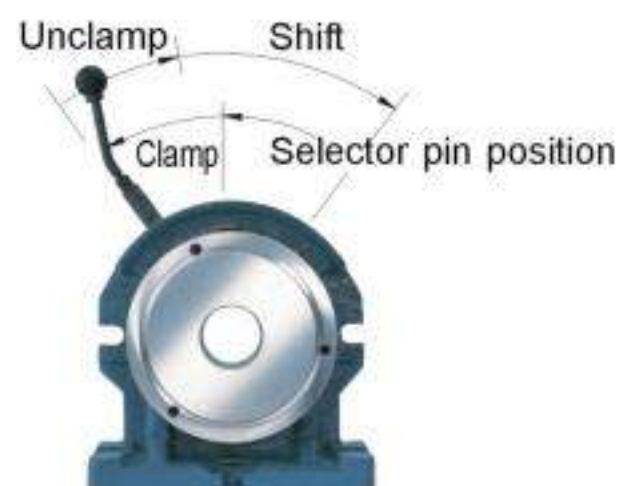
## Easy Selection of Dividing Positions

The divisions are easily and quickly set by simply turning the Selector Pins through half a turn with a Screwdriver



## One Action Positioning

Only one hand is required to unclamp, index and clamp the Table due to this design. Lever action is light and quick.



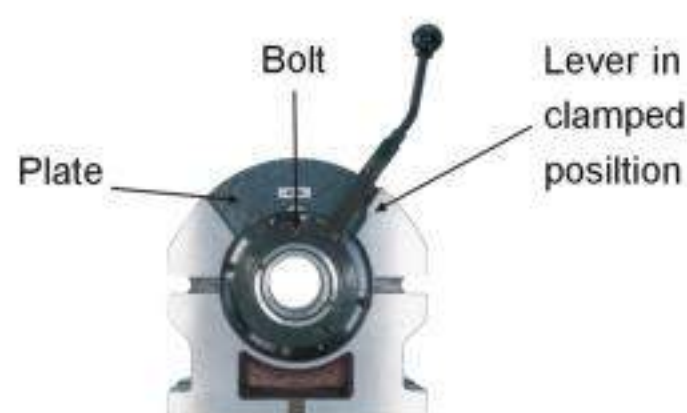
## Operation

1. Set the divisions by turning the required Selector Pins through half a turn with a Screw Driver.
2. Moving the Lever clockwise will unclamp the Table and rotate it to the next selected division.
3. The Table will be stopped at the division by the plunger.
4. The Table is clamped when the Lever is returned to its original position.



## Clamp Force Adjustment

1. Turn the divider to view the underside.
2. Loosen the 4 bolts in the slotted holes and rotate the plate in (+) direction to increase clamping force or in (-) direction to reduce the clamping force.
3. Place Lever in unclamped position and rotate the Table by hand to check the amount of clamping force on the Table by hand to check the amount of clamping force on the Table.
4. When the required clamping force has been set tighten the 4 Screws.



## CAUTION

Do not move the Lever until the Divider has been fitted on the machine table. The Lever can only be operated once the unit is clamped firmly on the machine.

Always return the Lever to the clamped position after each movement to prevent jamming.

Do not force the Lever if it should be jammed through mis-operation, simply turn the Selector Pin to the passing position in order to free the Lever.

Do not commence machining until the plunger has stopped the Table from rotating and the Lever has been returned to the clamped position

# Simple Indexing Spacer

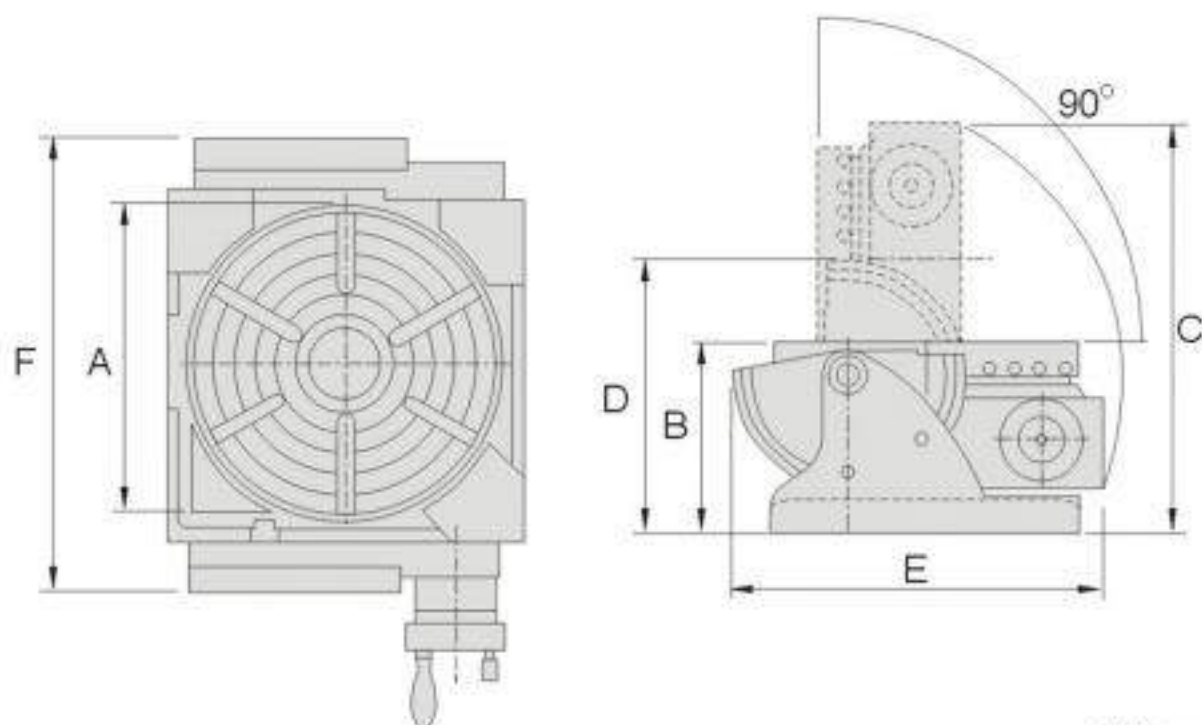
**65600**

**HUT300**

**Universal Tilting Rotary Table**

## Features:

- ▶ Quick Manual Indexing.  
Suitable for milling, boring, shaping, drilling, dividing, setting angles and circular cutting.
- ▶ Tilting range of 90° from horizontal to vertical position.
- ▶ 24 indexing holes around the edge of the table allow quick manual indexing.
- ▶ Graduations are large and clearly marked for quick and easy setting complex angles.
- ▶ Tailstock & Dividing plate set are optional.
- ▶ Compatible with 7, 8, or 9 inch Jaw Chucks.



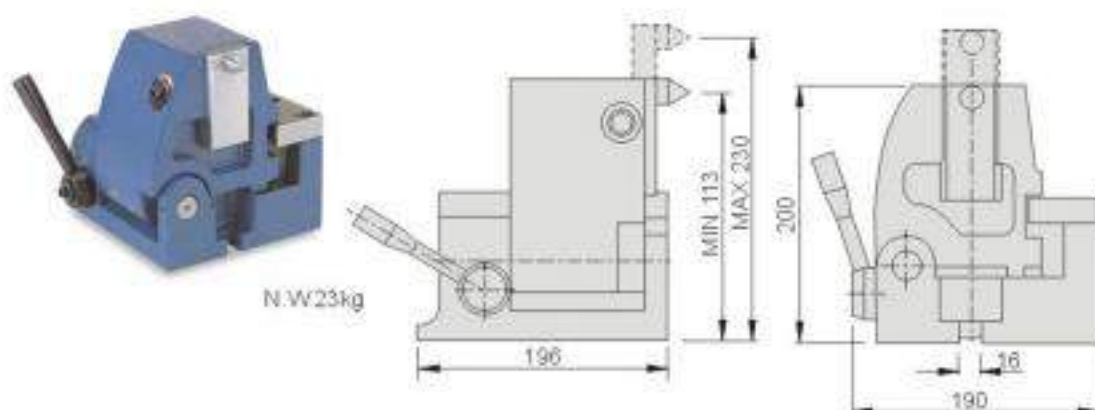
Unit:mm

| Order No. | Model  | A    | B   | C   | Center Height<br>D | E   | F   | Gear<br>Ratio | Center<br>Hole | Direct<br>Indexing | N.W.   |
|-----------|--------|------|-----|-----|--------------------|-----|-----|---------------|----------------|--------------------|--------|
| 65600     | HUT300 | Ø300 | 185 | 405 | 228                | 336 | 444 | 90:1          | MT5            | 24-div             | 68.7kg |

**65600-01**

**HUT300TS**

## Tailstock



**65600-02**

**HUT300DP**

## Dividing Plates Set



## Number Of Holes:

- A Plate: 9, 28, 34, 41, 47, 10, 29, 35, 43, 49  
 B Plate: 21, 31, 37, 44, 53, 26, 32, 38, 46, 59  
 C Plate: 61, 71, 77, 83, 91, 67, 73, 79, 89, 97

# 65610

## HPI

# Precision Index Table



### STANDARD ACCESSORIES

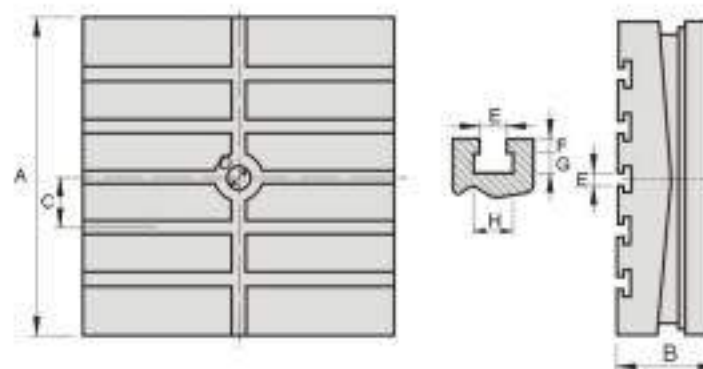
Supplied with these tables are:

- AIR COUPLER for connection to air supply
- 3M RUBBER PIPE
- Set of 4 CLAMPING BLOCKS

Curved Coupling Gear made of HIGH GRADE BEARING STEEL providing rigidity and super high precision.

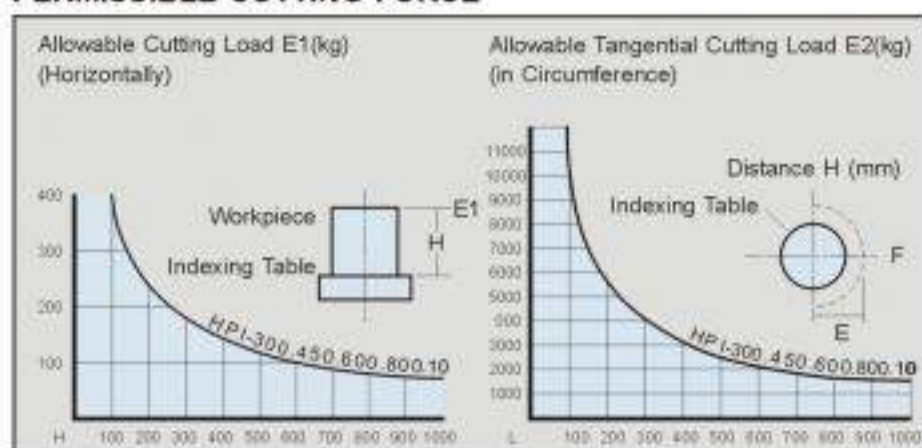
## Features :

- ▶ **PRECISION INDEXING TABLES** are constructed with an AIR CYLINDER between the mating surfaces. This system reduce friction and even when heavy loads are applied to the table. It ensures that manual rotation is almost effortless. This system also ensures that the highest accuracy and repeatability are achieved.
- ▶ Rotation is very quick, taking less than 3 seconds to reposition the table.
- ▶ **HEAVY DUTY CONSTRUCTION** built of FC35 CAST IRON suitable for heavy cutting.



SIMPLE INDEXING SPACER

## PERMISSIBLE CUTTING FORCE



## SPECIFICATIONS (Material: FCD 55 Ductile Iron)

Unit: mm/inch

| Order NO. | 65610-01 |       | 65610-02 |         | 65610-03 |       | 65610-04 |        | 65610-05 |       |
|-----------|----------|-------|----------|---------|----------|-------|----------|--------|----------|-------|
| Model     | HPI-300  |       | HPI-450  |         | HPI-600  |       | HPI-800  |        | HPI-1000 |       |
| Unit      | mm       | inch  | mm       | inch    | mm       | inch  | mm       | inch   | mm       | inch  |
| A         | 300      | 12    | 450      | 18      | 600      | 24    | 800      | 31     | 1000     | 40    |
| B         | 130      | 5 1/8 | 180      | 6 15/16 | 200      | 7 7/8 | 280      | 11     | 300      | 12    |
| C         | 100      | 4     | 100      | 4       | 100      | 4     | 100      | 4      | 125      | 5     |
| D         | 25       | 1     | 30       | 1 3/16  | 40       | 1 1/2 | 65       | 2 9/16 | 80       | 2 3/8 |
| E         | 14       | 9/16  | 18       | 11/16   | 20       | 3/4   | 22       | 7/8    | 22       | 7/8   |
| F         | 14       | 9/16  | 16       | 5/8     | 20       | 3/4   | 23       | 15/16  | 23       | 15/16 |
| G         | 12       | 15/32 | 12       | 15/32   | 14       | 9/16  | 15       | 19/32  | 15       | 19/32 |
| H         | 25       | 1     | 30       | 1 13/16 | 34       | 1 3/8 | 38       | 1 1/2  | 38       | 1 1/2 |

## SPECIFICATIONS

| Order NO.                                  | 65610-01                                                                                                                                                                            | 65610-02             | 65610-03             | 65610-04             | 65610-05               |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|----------------------|------------------------|
| Model                                      | HPI-300                                                                                                                                                                             | HPI-450              | HPI-600              | HPI-800              | HPI-1000               |
| 1 LXW                                      | 300x300<br>(12"x12")                                                                                                                                                                | 450x450<br>(18"x18") | 600x600<br>(24"x24") | 800x800<br>(32"x32") | 1000x1000<br>(40"x40") |
| 2 Height                                   | 130(5 1/8")                                                                                                                                                                         | 150(6")              | 200(7 7/8")          | 280(11")             | 300(12")               |
| 3 Spindle hole                             | 25(1")                                                                                                                                                                              | 30(1 1/4")           | 40(1 1/2")           | 65(2 3/8")           | 80(2 3/8")             |
| 4 T-Slot                                   | 14(9/16")                                                                                                                                                                           | 18(1 1/16")          | 20(3/4")             | 22(7/8")             | 22(7/8")               |
| 5 Driving                                  | Longitudinal: Air Pressure 5~8kg/cm <sup>2</sup><br>Revolving: Manual                                                                                                               |                      |                      |                      |                        |
| 6 Maximum load weight vertically in theory | 1200<br>(2645 lb)                                                                                                                                                                   | 2400<br>(5221 lb)    | 3400<br>(7496 lb)    | 4500<br>(9920 lb)    | 6000<br>(13225 lb)     |
| 7 Allowable load weight(kg)                | 500<br>(1102 lb)                                                                                                                                                                    | 1000<br>(2205 lb)    | 2000<br>(4409 lb)    | 3000<br>(6614 lb)    | 5000<br>(11021 lb)     |
| 8 Number of division                       | Divisor of 24: 2, 3, 4, 6, 8, 12<br>Divisor of 74: 2, 3, 4, 6, 8, 12, 18, 24, 36, 72<br>and divisions by integers of 5° angles<br>custom-made orders for special dividing integers. |                      |                      |                      |                        |
| 9 Table rotation                           | Clockwise and anticlockwise                                                                                                                                                         |                      |                      |                      |                        |
| 10 Division (second)                       | Divide into 24 or anticlockwise                                                                                                                                                     |                      |                      |                      |                        |
| 11 Weight(kg)                              | 90                                                                                                                                                                                  | 200                  | 460                  | 900                  | 1200                   |
| 12 Work Table travel loosen                | 5                                                                                                                                                                                   |                      |                      | 8                    |                        |
| 13 Clamping Force                          | 1500kg                                                                                                                                                                              | 2200kg               | 3200kg               | 5400kg               | 5400kg                 |

# Angle Plate

**65620**

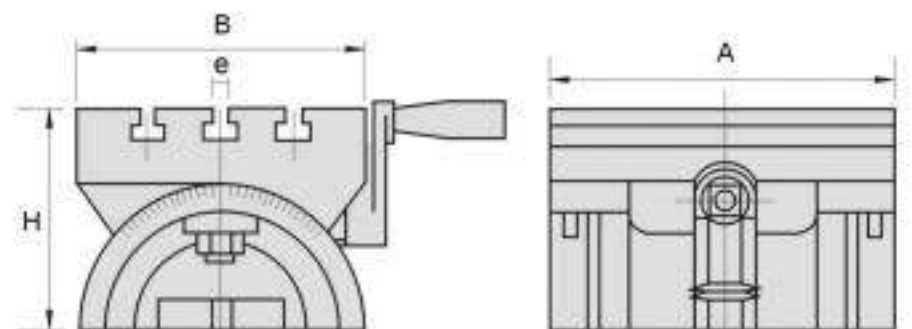
HAP

HAP Angle Plate (Sine Plate)



## Features:

- ▶ Special design for setting angles in different machines.
- ▶ Compact design for large work space.
- ▶ Tilting angle range: left & right 45°.
- ▶ Graduation reading is simple and accurate.



Unit:mm

| Order No. | Model  | B   | A   | H   | T-Slot | N.W. |
|-----------|--------|-----|-----|-----|--------|------|
|           |        |     |     |     | e      |      |
| 65620-01  | HAP180 | 130 | 180 | 91  | 12     | 7.5  |
| 65620-02  | HAP250 | 178 | 250 | 133 | 12     | 22.5 |
| 65620-03  | HAP380 | 260 | 380 | 185 | 16     | 69   |
| 65620-04  | HAP600 | 310 | 600 | 205 | 18     | 132  |

**65630**

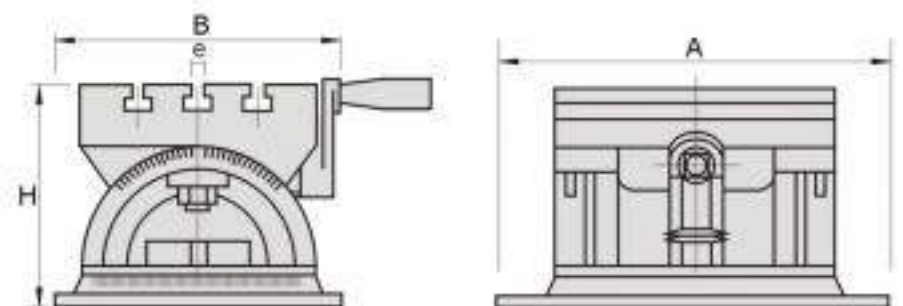
HAPS

HAP Angle Plate with Swivel Base



## Features:

- ▶ Special design for setting angles in different machines.
- ▶ Compact design for large work space.
- ▶ Tilting angle range: left & right 45°.
- ▶ Graduation reading is simple and accurate.
- ▶ Swivel base enable 360° enables any possible angles.



Unit:mm

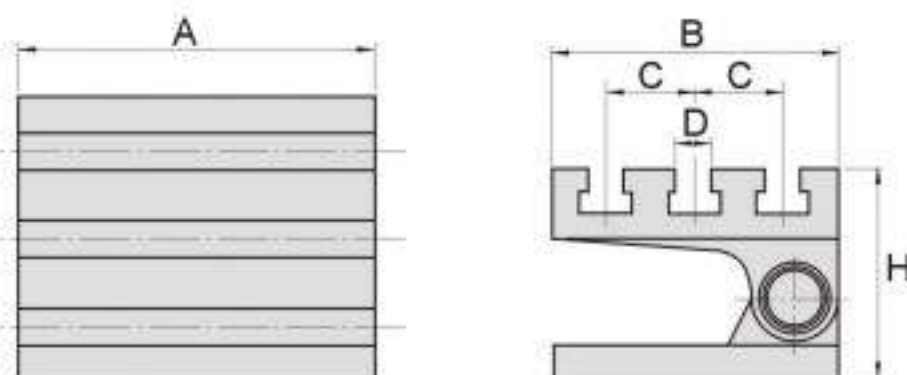
| Order No. | Model   | B   | A   | H   | T-Slot | N.W.  |
|-----------|---------|-----|-----|-----|--------|-------|
|           |         |     |     |     | e      |       |
| 65630-01  | HAP180S | 220 | 265 | 135 | 12     | 12kg  |
| 65630-02  | HAP250S | 305 | 350 | 185 | 12     | 40kg  |
| 65630-03  | HAP380S | 436 | 490 | 240 | 16     | 100kg |

## 65640 HSAP Tilting Angle Plate



### Features:

- ▶ Suitable for drilling, milling machine, fast angle setting and adjusting.
- ▶ Tilting angle from  $-30^{\circ}$  to  $90^{\circ}$ .



Unit:mm

| Order No. | Model  | A   | B   | C  | D  | H   | N.W. |
|-----------|--------|-----|-----|----|----|-----|------|
| 65640-01  | HSAP-1 | 204 | 154 | 46 | 13 | 116 | 12kg |
| 65640-02  | HSAP-2 | 256 | 204 | 64 | 16 | 170 | 26kg |
| 65640-03  | HSAP-3 | 306 | 254 | 68 | 16 | 193 | 45kg |
| 65640-04  | HSAP-4 | 386 | 308 | 80 | 16 | 210 | 78kg |

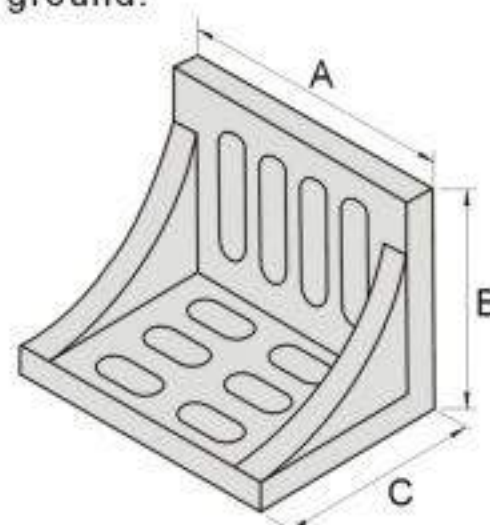
ANGLE PLATE

## 65650 HL Slotted Angle Plate



### Features:

- ▶ Precision ground.



Unit:mm

| Order No. | Model  | A   | B   | C   | N.W.  |
|-----------|--------|-----|-----|-----|-------|
| 65650-01  | HL-100 | 112 | 85  | 75  | 2kg   |
| 65650-02  | HL-150 | 150 | 125 | 112 | 3.5kg |
| 65650-03  | HL-200 | 200 | 150 | 125 | 7kg   |
| 65650-04  | HL-250 | 250 | 200 | 150 | 12kg  |
| 65650-05  | HL-300 | 300 | 228 | 200 | 25kg  |

# Milling Machine Accessories

**65700**

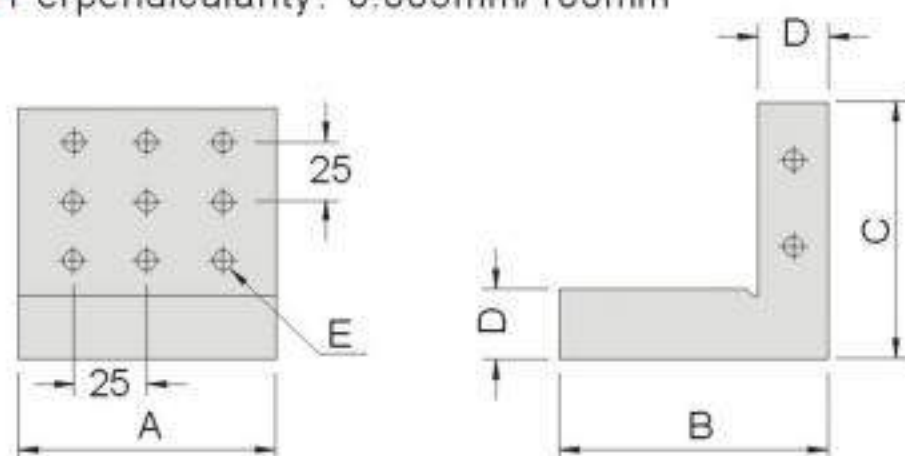
LA

Right Angle Plates



## Features:

- ▲ Precision ground and accurate angle.
- ▲ Material, YK30, HRC52°~58°
- ▲ Parallelism: 0.003mm/100mm
- ▲ Perpendicularity: 0.005mm/100mm



Unit:mm

| Order No. | Model | A   | B   | C   | D  | E       | N.W.   |
|-----------|-------|-----|-----|-----|----|---------|--------|
| 65700-34  | LA34  | 75  | 75  | 100 | 25 | M6x1.0  | 2.5kg  |
| 65700-44  | LA44  | 100 | 100 | 100 | 25 |         | 3.4kg  |
| 65700-46  | LA46  | 100 | 100 | 150 | 25 |         | 4.3kg  |
| 65700-62  | LA62  | 200 | 120 | 200 | 40 |         | 17.5kg |
| 65700-65  | LA65  | 300 | 150 | 300 | 50 | M8x1.25 | 45.5kg |

**65710**

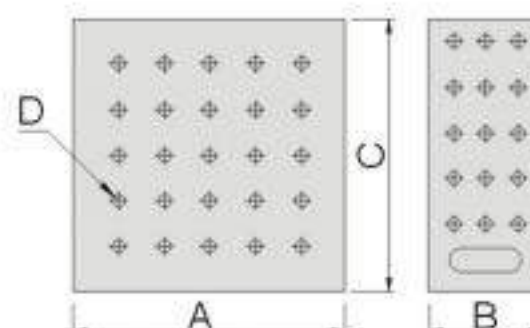
LB

Right Angle Plates



## Features:

- ▲ Precision ground and accurate angle.
- ▲ Screw holes are made for fixing mold fixture.
- ▲ Material, SK2, HRC52°~58°
- ▲ Parallelism: 0.003mm/100mm
- ▲ Perpendicularity: 0.005mm/100mm



Unit:mm

| Order No. | Model | A   | B  | C   | D        | N.W.   |
|-----------|-------|-----|----|-----|----------|--------|
| 65710-150 | LB150 | 150 | 63 | 150 | M8XP1.25 | 10.5kg |
| 65710-200 | LB200 | 200 | 73 | 200 |          | 22.4kg |
| 65710-250 | LB250 | 250 | 83 | 250 |          | 39.7kg |
| 65710-300 | LB300 | 300 | 93 | 300 |          | 64.5kg |

**65720**
**GC10,12**
**Angle Block Set**

**Features :**

- ▶ Suitable for inspection or calibrating angles.
- ▶ Light magnetized for better holding when measuring.
- ▶ Utilised as angle fixture on grinding machine.
- ▶ Accuracy:  $\pm 10''$
- ▶ Material, S50C, HRC52°~55°
- ▶ Size: 3" long and 1/4" thick

| Order No. | Model | Specification                                           | Set   | N.W.  |
|-----------|-------|---------------------------------------------------------|-------|-------|
| 65720-10  | GC10  | 1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°             | 10pcs | 0.5kg |
| 65720-12  | GC12  | 1/4°, 1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30° | 12pcs | 0.6kg |

**65730**
**GC20**
**Universal Angle Block Set**

**Features :**

- ▶ Suitable for inspection or calibrating angles.
- ▶ Utilised as angle fixture on grinding machine.
- ▶ Accuracy:  $\pm 10''$
- ▶ Material, S50C, HRC52°~55°
- ▶ Size: 3" long and 1/4" thick

| Order No. | Model | Specification                   | Set  | N.W.  |
|-----------|-------|---------------------------------|------|-------|
| 65730     | GC20  | 1/2° 1° 2° 3° 4° 5° 10° 15° 30° | 9pcs | 1.5kg |

**65740**
**ZT02-10**
**Universal Angle Block Set**

**Features :**

- ▶ Suitable for inspection or calibrating angles.
- ▶ Utilised as angle fixture on grinding and milling machine.
- ▶ Accuracy:  $\pm 10''$
- ▶ Material, S50C, HRC52°~55°
- ▶ Size: 3" long and 1/4" thick

| Order No. | Model   | Specification                                                     | Set   | N.W.  |
|-----------|---------|-------------------------------------------------------------------|-------|-------|
| 65740     | ZT02-10 | 0° 1/4° 1/2° 1° 2° 3° 4° 5° 10° 15°<br>20° 25° 30° 35° 40° 45° 0° | 17pcs | 1.5kg |

# Milling Machine Accessories

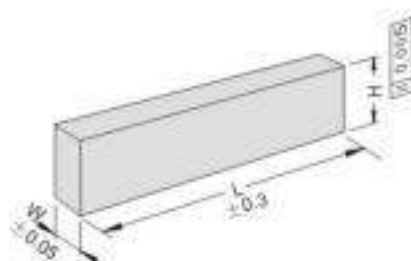
**65750**

**P85**

**Precision Parallel Set**

## Features :

- ▲ Accuracy:  $H \pm 0.01\text{mm}$  Parallelism:  $H \pm 0.005\text{mm}$
- ▲ Hardness: HRC52°~58°
- ▲ 9 pairs in a set.



N.W. 5.5kg

Unit:mm

### WxHxLxPCS

|              |
|--------------|
| 8.5x14x150x2 |
| 8.5x16x150x2 |
| 8.5x20x150x2 |
| 8.5x24x150x2 |
| 8.5x30x150x2 |
| 8.5x32x150x2 |
| 8.5x36x150x2 |
| 8.5x40x150x2 |
| 8.5x44x150x2 |

**65760**

**P100**

**Precision Parallel Set**

## Features :

- ▲ Accuracy:  $H \pm 0.01\text{mm}$  Parallelism:  $H \pm 0.005\text{mm}$
- ▲ Hardness: HRC52°~58°
- ▲ 9 pairs in a set.



N.W. 10.3kg

Unit:mm

### WxHxLxPCS

|             |
|-------------|
| 5x16x100x2  |
| 6x18x100x2  |
| 8x24x100x2  |
| 10x30x100x2 |
| 12x36x150x2 |
| 14x48x150x2 |
| 18x60x150x2 |
| 22x62x150x2 |

Unit:mm

### WxHxCxLxPCS

|                 |
|-----------------|
| 15x31x2.5x200x2 |
|-----------------|



**65770**

**P150**

**Precision Parallel Set**

## Features :

- ▲ Accuracy:  $H \pm 0.01\text{mm}$
- ▲ Hardness: HRC48°~55°
- ▲ 14 pairs in a set.



N.W. 9.2kg

Unit:mm

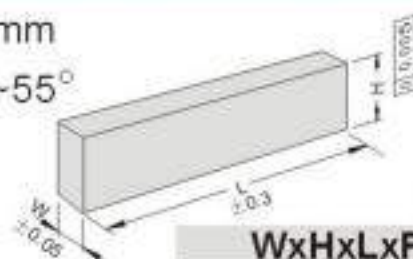
### WxHxLxPCS

|             |
|-------------|
| 10x14x150x2 |
| 10x16x150x2 |
| 10x18x150x2 |
| 10x20x150x2 |
| 10x22x150x2 |
| 10x24x150x2 |
| 10x26x150x2 |

Unit:mm

### WxHxLxPCS

|             |
|-------------|
| 10x28x150x2 |
| 10x30x150x2 |
| 10x32x150x2 |
| 10x35x150x2 |
| 10x40x150x2 |
| 10x45x150x2 |
| 10x50x150x2 |



## 65771 P200 Precision Parallel Set



### Features:

- Accuracy:  $H \pm 0.01\text{mm}$  Parallelism:  $\pm 0.005\text{mm}$
- Hardness: HRC52°~58°
- Material: Alloy Tool Steel. 20 pairs in a set.

Unit:mm

| Order No. | Model | WxHxL              |
|-----------|-------|--------------------|
| 65771     | P200  | 2x(5,10,15,20)x100 |
|           |       | 3x(6,11,16,21)x100 |
|           |       | 4x(7,12,17,22)x100 |
|           |       | 5x(8,13,18,23)x100 |
|           |       | 6x(9,14,19,24)x100 |

N.W. 1.92kg

## 65772 P250 Precision Parallel Set



### Features:

- Accuracy:  $H \pm 0.01\text{mm}$  Parallelism:  $\pm 0.005\text{mm}$
- Hardness: HRC52°~58°
- Material: Alloy Tool Steel. 24 pairs in a set.

Unit:mm

| Order No. | Model  | WxHxL                      |
|-----------|--------|----------------------------|
| 65772-01  | P250-1 | 8x(11,16,21,26,31,36)x125  |
|           |        | 12x(15,20,25,30,35,40)x125 |
| 65772-02  | P250-2 | 10x(13,18,23,28,33,38)x125 |
|           |        | 14x(17,22,27,32,37,42)x125 |

P250-1+P250-2=P250

## 65773 P300 Precision Parallel Set



### Features:

- Accuracy:  $H \pm 0.01\text{mm}$  Parallelism:  $\pm 0.005\text{mm}$
- Hardness: HRC52°~58°
- Material: Alloy Tool Steel. 24 pairs in a set.

Unit:mm

| Order No. | Model  | WxHxL                      |
|-----------|--------|----------------------------|
| 65773-01  | P300-1 | 8x(11,16,21,26,31,36)x150  |
|           |        | 12x(15,20,25,30,35,40)x150 |
| 65773-02  | P300-2 | 10x(13,18,23,28,33,38)x150 |
|           |        | 14x(17,22,27,32,37,42)x150 |

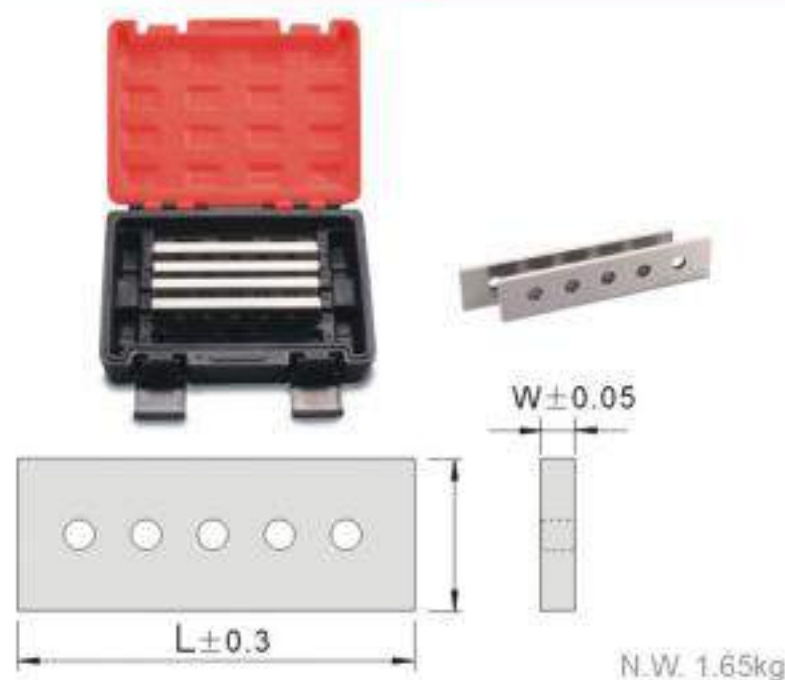
P300-1+P300-2=P300

# Milling Machine Accessories

**65774**

**P30**

## Precision Parallel Set



### Features :

- ▲ Accuracy:  $H \pm 0.01\text{mm}$  Parallelism:  $\pm 0.005\text{mm}$
- ▲ Hardness: HRC52°~58°
- ▲ Material: Alloy Tool Steel. 4 pairs in a set.

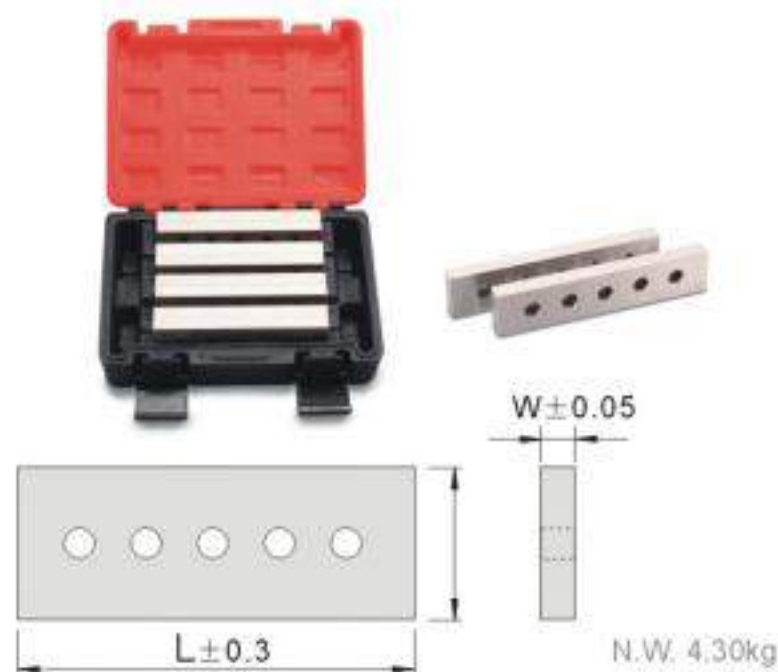
Unit:mm

| Order No. | Model | WxHxL      |
|-----------|-------|------------|
| 65774     | P30   | 4.6x25x150 |
|           |       | 4.6x31x150 |
|           |       | 4.6x38x150 |
|           |       | 4.6x44x150 |

**65776**

**P40**

## Precision Parallel Set



### Features :

- ▲ Accuracy:  $H \pm 0.01\text{mm}$  Parallelism:  $\pm 0.005\text{mm}$
- ▲ Hardness: HRC52°~58°
- ▲ Material: Alloy Tool Steel. 4 pairs in a set.

Unit:mm

| Order No. | Model | WxHxL       |
|-----------|-------|-------------|
| 65776     | P40   | 12.5x25x150 |
|           |       | 12.5x31x150 |
|           |       | 12.5x38x150 |
|           |       | 12.5x44x150 |

**65778**

**P50**

## Precision Parallel Set



### Features :

- ▲ Accuracy:  $H \pm 0.01\text{mm}$  Parallelism:  $\pm 0.005\text{mm}$
- ▲ Hardness: HRC52°~58°
- ▲ Material: Alloy Tool Steel. 9 pairs in a set.

Unit:mm

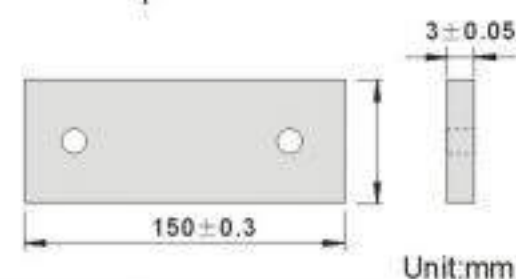
| Order No. | Model | WxHxL    |
|-----------|-------|----------|
| 65778     | P50   | 6x19x150 |
|           |       | 6x22x150 |
|           |       | 6x25x150 |
|           |       | 6x28x150 |
|           |       | 6x31x150 |
|           |       | 6x35x150 |
|           |       | 6x38x150 |
|           |       | 6x41x150 |
|           |       | 6x44x150 |

**65780**
**P60**
**Precision Parallel Set**


N.W. 2.2kg

**Features :**

- Accuracy:  $H \pm 0.01\text{mm}$  Parallelism:  $\pm 0.005\text{mm}$
- Hardness: HRC52°~58°
- Material: Alloy Tool Steel. 10 pairs in a set.



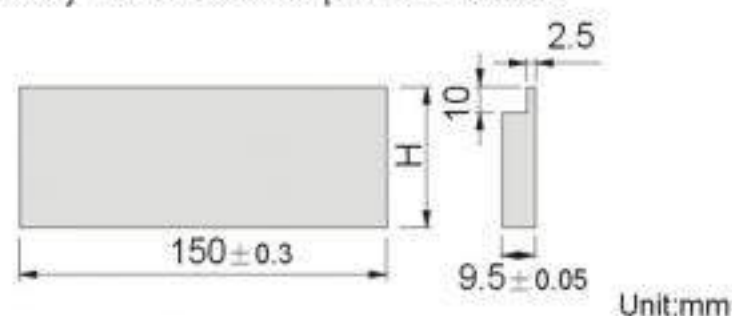
| Order No. | Model | Specification |    |    |    |    |    |    |    |    |    |
|-----------|-------|---------------|----|----|----|----|----|----|----|----|----|
|           |       | $H \pm 0.01$  |    |    |    |    |    |    |    |    |    |
| 65780     | P60   | 13            | 16 | 19 | 22 | 25 | 28 | 31 | 35 | 38 | 41 |

**65790**
**P70**
**Precision Parallel Set**


N.W. 4.06kg

**Features :**

- Accuracy:  $H \pm 0.01\text{mm}$  Parallelism:  $\pm 0.005\text{mm}$
- Hardness: HRC52°~58°
- Material: Alloy Tool Steel. 6 pairs in a set.



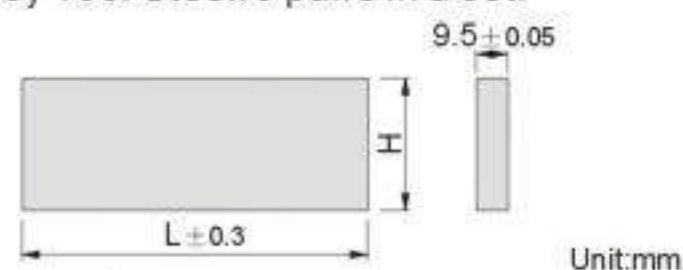
| Order No. | Model | Specification |    |    |    |    |    |  |
|-----------|-------|---------------|----|----|----|----|----|--|
|           |       | $H \pm 0.01$  |    |    |    |    |    |  |
| 65790     | P70   | 25            | 30 | 35 | 40 | 45 | 48 |  |

**65800**
**P80**
**Precision Parallel Set**

N.W. 4.95kg(P80-1)  
N.W. 8.40kg(P80-2)

**Features :**

- Accuracy:  $H \pm 0.01\text{mm}$  Parallelism:  $\pm 0.005\text{mm}$
- Hardness: HRC52°~58°
- Material: Alloy Tool Steel. 6 pairs in a set.



| Order No. | Model | Specification |    |    |    |    |    |  |     |
|-----------|-------|---------------|----|----|----|----|----|--|-----|
|           |       | $H \pm 0.01$  |    |    |    |    |    |  | L   |
| 65800-01  | P80-1 | 25            | 30 | 35 | 40 | 45 | 48 |  | 150 |
| 65800-02  | P80-2 | 35            | 40 | 45 | 50 | 55 | 58 |  | 200 |

# Machine Tool Fixture

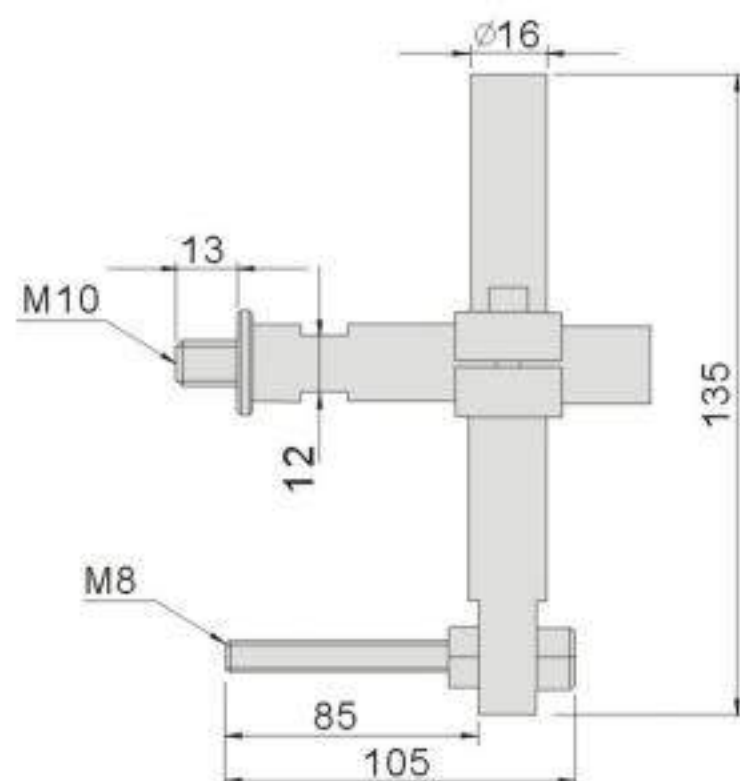
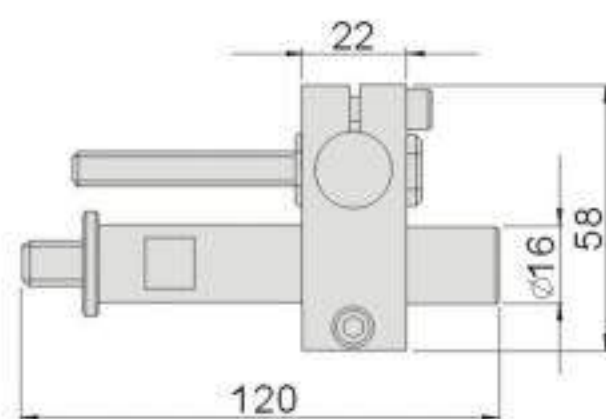
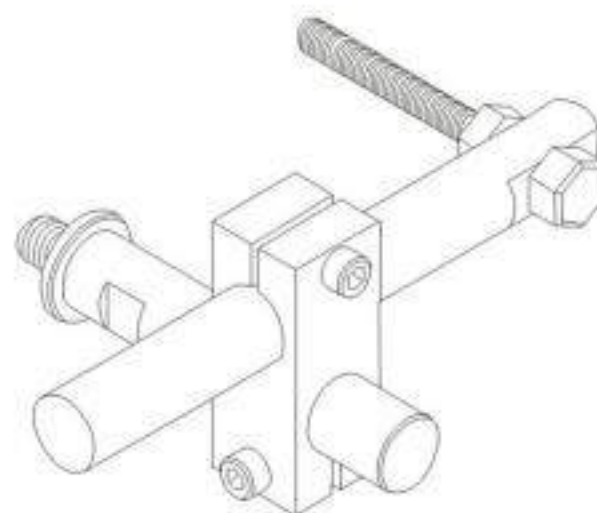
**65810**

LT

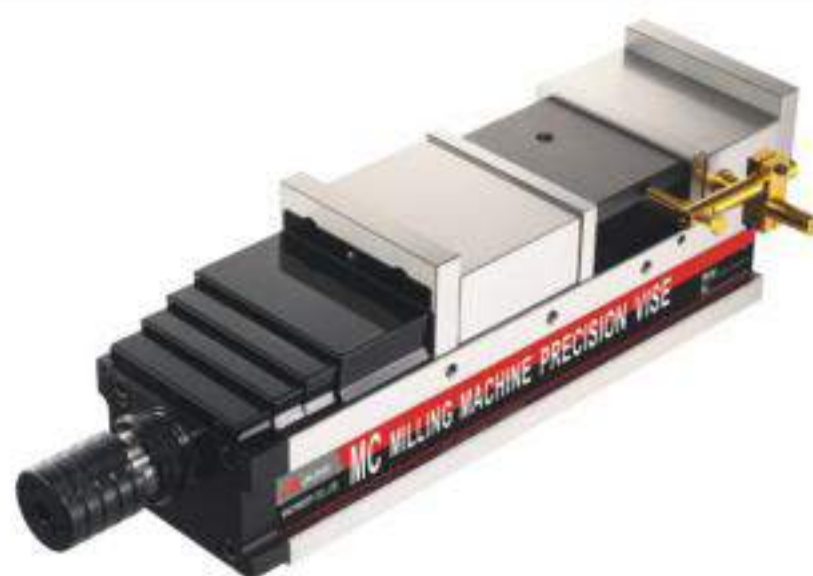
Vise Work Stopper

## Features:

- Material: Iron with painted colour.



## Application Examples:



**65830**
**T**
**Aluminum Slot Cover For Milling Table**


### Features:

- Effective item for saving cleaning time.

Unit:mm

| Order No. | Model | L    | W  | H  | Pcs/Set | N.W.    |
|-----------|-------|------|----|----|---------|---------|
| 65830-01  | T-10  | 300  | 10 | 8  | 6       | 0.25kg  |
| 65830-02  | T-12  | 400  | 12 | 8  | 6       | 0.50kg  |
| 65830-03  | T-14  | 400  | 14 | 10 | 6       | 0.68kg  |
| 65830-04  | T-16  | 400  | 16 | 10 | 6       | 0.90kg  |
| 65830-05  | T-18  | 450  | 18 | 10 | 6       | 1.28kg  |
| 65830-06  | T-20  | 1000 | 20 | 10 | 5       | 3.50kg  |
| 65830-07  | T-22  | 1000 | 22 | 14 | 5       | 4.30kg  |
| 65830-08  | T-24  | 1000 | 24 | 14 | 5       | 5.10kg  |
| 65830-09  | T-28  | 1000 | 28 | 14 | 5       | 6.90kg  |
| 65830-10  | T-36  | 1000 | 36 | 14 | 5       | 11.50kg |

### Application Examples:


**65840**
**AMS**
**Work Stop Tool**

### Features:

- Fast, accurate positioning on many positions.
- Suitable for locking in any general machines.
- Operation easy and freely adjusted height and direction.

### Application Examples:



Typical Application



Unit:mm

| Order No.   | Model     | Compatible         | N.W.   | G.W.   | Package Size |
|-------------|-----------|--------------------|--------|--------|--------------|
| 65840-160A  | AMS-160A  | All types machines | 0.80kg | 0.96kg | 41x29.5x20cm |
| 65840-160AH | AMS-160AH |                    | 0.90kg | 1.06kg | 41x29.5x20cm |
| 65840-160B  | AMS-160B  |                    | 0.62kg | 0.78kg | 41x29.5x20cm |
| 65840-160BH | AMS-160BH |                    | 0.72kg | 0.88kg | 41x29.5x20cm |

# Machine Tool Fixture

**65845**

EC

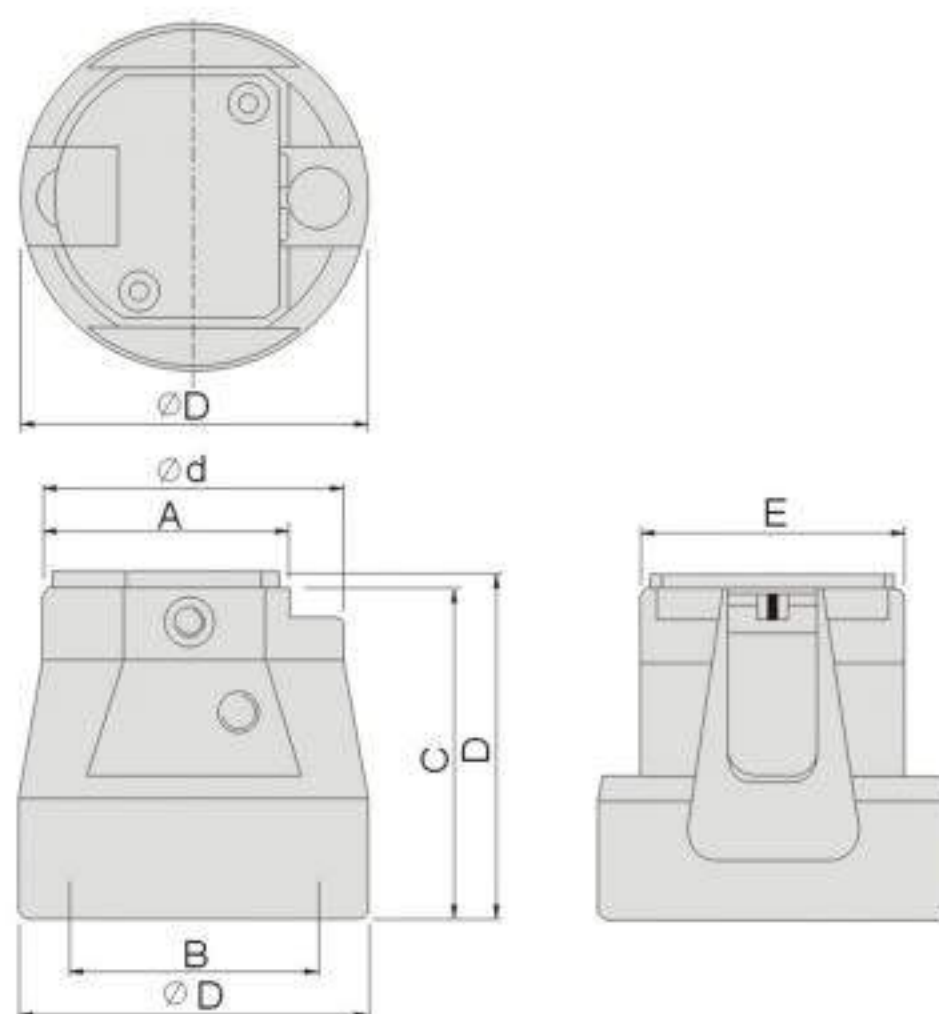
Lateral Clamp



## Features:

- ▶ Suitable for machining center, milling, vertical lathe to clamp workpiece for side processing.
- ▶ Larger workpiece can apply jack support to eliminate the vibration generated while processing.
- ▶ Special clamping design, both lateral force and parallel force to clamp tight.
- ▶ Compact design for less interference with cutting tools.
- ▶ Easy loading and unloading workpieces, increase efficiency.

## Application Examples:



Unit:mm

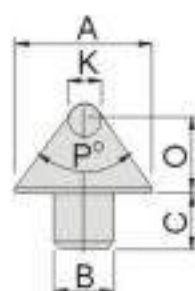
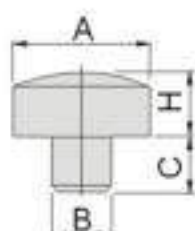
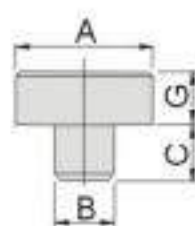
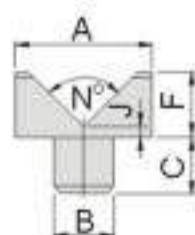
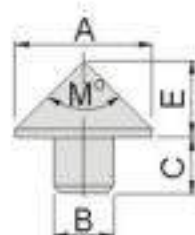
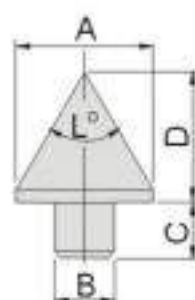
| Order No. | Model | $\varnothing D$  | $\varnothing d$  | A  | B  | C  | D  | E  | N.W.  |
|-----------|-------|------------------|------------------|----|----|----|----|----|-------|
| 65845     | EC-65 | $\varnothing 70$ | $\varnothing 60$ | 49 | 50 | 67 | 70 | 53 | 1.6kg |

Note:MOQ 4 pcs

**65850**
**KT Tips for Support Jack**

### Features:

- Suitable for enlarging supporting area.  
(Suitable for FS-S, MSS spec.)



| Order No.  | Model |
|------------|-------|
| 65850-01-1 | KT1A  |
| 65850-02-1 | KT1B  |

| Order No.  | Model |
|------------|-------|
| 65850-01-2 | KT2A  |
| 65850-02-2 | KT2B  |

| Order No.  | Model |
|------------|-------|
| 65850-01-3 | KT3A  |
| 65850-02-3 | KT3B  |

| Order No.  | Model |
|------------|-------|
| 65850-01-4 | KT4A  |
| 65850-02-4 | KT4B  |

| Order No.  | Model |
|------------|-------|
| 65850-01-5 | KT5A  |
| 65850-02-5 | KT5B  |

| Order No.  | Model |
|------------|-------|
| 65850-01-6 | KT6A  |
| 65850-02-6 | KT6B  |

MACHINE TOOL  
FIXTURE

### Application Examples:



Unit:mm

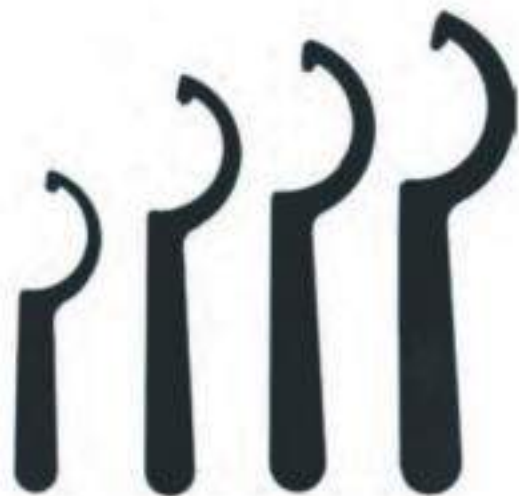
| Model        | A  | B  | C  | D  | E    | F  | G  | H  | J | K | L   | M   | N   | O    | P   |
|--------------|----|----|----|----|------|----|----|----|---|---|-----|-----|-----|------|-----|
| KT1A to KT6A | 25 | 11 | 10 | 24 | 14   | 12 | 10 | 12 | 2 | 6 | 60° | 90° | 90° | 14.5 | 70° |
| KT1B to KT6B | 30 | 11 | 10 | 31 | 20.5 | 14 | 14 | 14 | 2 | 8 | 60° | 90° | 90° | 19   | 70° |

# Machine Tool Fixture

65852

PW

Wrench for Support Jack



Application Examples:

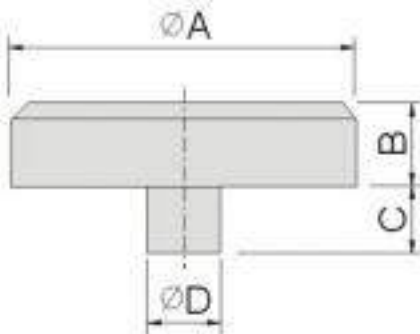


| Order No. | Model   | Compatibility   |
|-----------|---------|-----------------|
| 65852-01  | PW-3505 | MSS-85、FS-70S   |
| 65852-02  | PW-4007 | MSS-110、FS-100S |
| 65852-03  | PW-4507 | MSS-165、FS-150S |
| 65852-04  | PW-5008 | MSS-265、FS-250S |

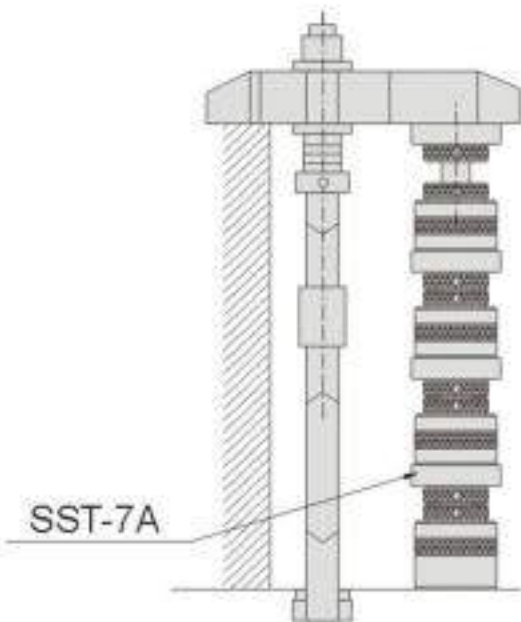
65854

SST7A~7D

Supporter Holder



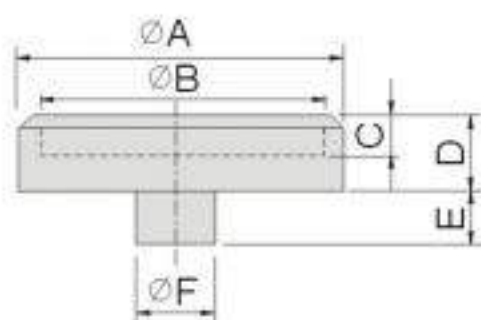
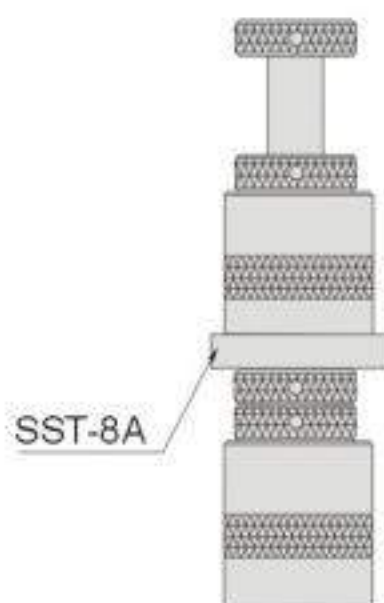
Examples:



## Features:

- Suitable for enlarge supporting surface. .  
(Suitable for FS-S, MSS spec.).

| Unit:mm   |        |    |    |    |    |        |
|-----------|--------|----|----|----|----|--------|
| Order No. | Model  | A  | B  | C  | D  | N.W.   |
| 65854-01  | SST-7A | 48 | 10 | 10 | 11 | 0.15kg |
| 65854-02  | SST-7B | 54 | 12 | 10 | 11 | 0.26kg |
| 65854-03  | SST-7C | 58 | 15 | 10 | 11 | 0.32kg |
| 65854-04  | SST-7D | 64 | 20 | 10 | 11 | 0.45kg |

**65856**
**SST8A~8D**
**Supporter Holder**

**Examples:**


### Features:

- ▶ Suitable for raising height support.  
(Suitable for FS-S & MSS models.)

Unit:mm

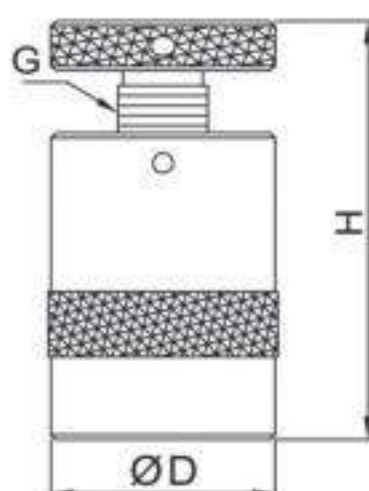
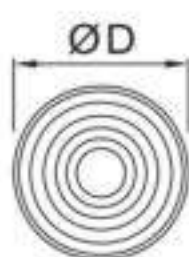
| Order No. | Model  | A  | B  | C | D  | E  | F  | N.W.   |
|-----------|--------|----|----|---|----|----|----|--------|
| 65856-01  | SST-8A | 46 | 40 | 4 | 8  | 10 | 11 | 0.08kg |
| 65856-02  | SST-8B | 52 | 45 | 4 | 9  | 10 | 11 | 0.1kg  |
| 65856-03  | SST-8C | 58 | 50 | 5 | 10 | 10 | 11 | 0.14kg |
| 65856-04  | SST-8D | 70 | 60 | 6 | 12 | 10 | 11 | 0.23kg |

MACHINE TOOL  
FIXTURE

**65860**
**FK**
**Spiral Type Support Jack**

### Features:

- ▶ Spiral shape surface design, workpiece is fixed steadily.


**Applications:**


Unit:mm

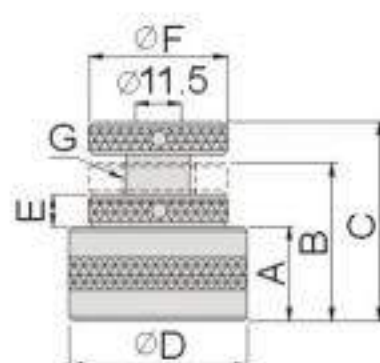
| Order No. | Model  | H stroke     | D  | G      | Capacity (kn) | N.W.   |
|-----------|--------|--------------|----|--------|---------------|--------|
| 65860-01  | FK-40  | 40~50(10)    | 49 | Tm32x3 | 60            | 0.47kg |
| 65860-02  | FK-50  | 50~62(12)    | 49 | Tm32x3 | 80            | 0.65kg |
| 65860-03  | FK-60  | 60~78(18)    | 49 | Tm32x3 | 100           | 0.73kg |
| 65860-04  | FK-80  | 80~105(25)   | 63 | Tm40x4 | 160           | 1.60kg |
| 65860-05  | FK-100 | 100~145(45)  | 63 | Tm40x4 | 160           | 1.90kg |
| 65860-06  | FK-130 | 130~200(70)  | 63 | Tm40x4 | 160           | 2.68kg |
| 65860-07  | FK-160 | 160~260(100) | 63 | Tm40x4 | 160           | 3.28kg |

# Machine Tool Fixture

**65862**

**MSS**

**Support Jack With Magnetics**



## Features:

- ▶ Can be applied laterally or vertically.
- ▶ Built-in magnets design, easy to clean chips
- ▶ Larger supporting area can apply support holder SST7A
- ▶ Higher supporting area can apply support holder SST8A

## Examples:



Note: MOQ 2 pcs

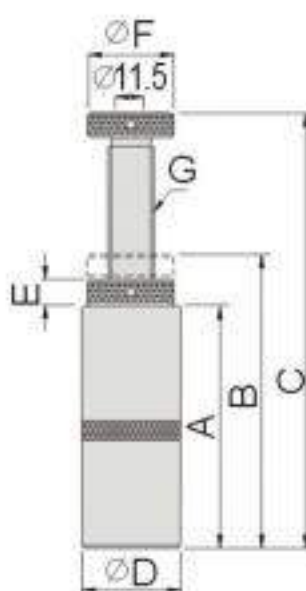
Unit:mm

| Order No. | Model   | A   | B~C stroke | D  | E  | F  | G      | Capacity (kn) | N.W.   |
|-----------|---------|-----|------------|----|----|----|--------|---------------|--------|
| 65862-01  | MSS-50  | 24  | 40~50      | 45 | 8  | 35 | Tr18x2 | 80            | 0.41kg |
| 65862-02  | MSS-65  | 34  | 50~65      | 45 | 8  | 35 | Tr18x2 | 80            | 0.54kg |
| 65862-03  | MSS-85  | 49  | 65~85      | 45 | 8  | 35 | Tr20x3 | 80            | 1.03kg |
| 65862-04  | MSS-110 | 63  | 85~110     | 45 | 12 | 40 | Tr25x4 | 150           | 1.75kg |
| 65862-05  | MSS-165 | 85  | 110~165    | 50 | 12 | 45 | Tr25x4 | 150           | 2.93kg |
| 65862-06  | MSS-265 | 135 | 165~265    | 60 | 15 | 50 | Tr32x5 | 200           | 6.23kg |
| 65862-07  | MSS-300 | 170 | 265~300    | 60 | 15 | 50 | Tr32x5 | 200           | 7.50kg |

**65864**

**FS-S**

**Support Jack**



## Features:

- ▶ Larger supporting area can apply support holder SST7A
- ▶ Higher supporting area can apply support holder SST8A

Note: MOQ 2 pcs

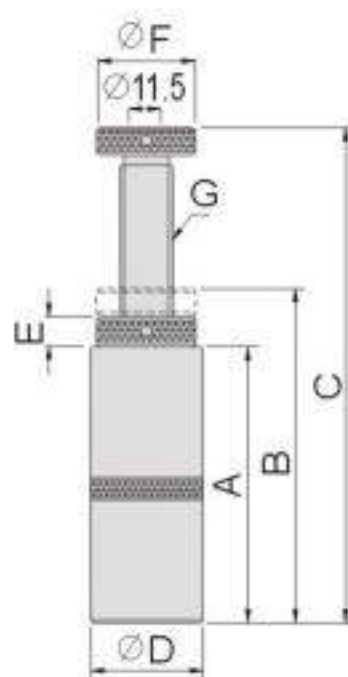
Unit:mm

| Order No. | Model   | A   | B~C stroke | D  | E  | F  | G      | Capacity (kn) | N.W.   |
|-----------|---------|-----|------------|----|----|----|--------|---------------|--------|
| 65864-01  | FS-50S  | 21  | 37~50      | 40 | 8  | 35 | Tr20x3 | 80            | 0.56kg |
| 65864-02  | FS-70S  | 32  | 50~70      | 40 | 8  | 35 | Tr20x3 | 80            | 0.78kg |
| 65864-03  | FS-100S | 46  | 70~100     | 45 | 12 | 40 | Tr20x3 | 80            | 1.47kg |
| 65864-04  | FS-150S | 70  | 100~150    | 50 | 12 | 45 | Tr25x4 | 150           | 2.65kg |
| 65864-05  | FS-250S | 120 | 150~250    | 60 | 15 | 50 | Tr32x5 | 200           | 5.64kg |
| 65864-06  | FS-300S | 170 | 200~300    | 60 | 15 | 50 | Tr32x5 | 200           | 7.17kg |

**65870**
**FS400~1000T**
**Large Support Jack**

### Features:

- ▶ Suitable for larger workpiece, convenient operation.



### Application



Note: MOQ 2 pcs

Unit:mm

| Order No. | Model    | A   | B~C stroke | D  | E  | F  | G     | Capacity (kn) | N.W.   |
|-----------|----------|-----|------------|----|----|----|-------|---------------|--------|
| 65870-01  | FS-400T  | 270 | 300~400    | 70 | 15 | 60 | M36x4 | 300           | 6.1kg  |
| 65870-02  | FS-500T  | 370 | 400~500    | 70 | 15 | 60 | M36x4 | 300           | 6.8kg  |
| 65870-03  | FS-600T  | 470 | 500~600    | 70 | 15 | 60 | M36x4 | 300           | 8.6kg  |
| 65870-04  | FS-700T  | 570 | 600~700    | 70 | 15 | 60 | M36x4 | 300           | 9.7kg  |
| 65870-05  | FS-800T  | 670 | 700~800    | 70 | 15 | 60 | M36x4 | 300           | 10.5kg |
| 65870-06  | FS-900T  | 770 | 800~900    | 70 | 15 | 60 | M36x4 | 300           | 13.4kg |
| 65870-07  | FS-1000T | 870 | 900~1000   | 70 | 15 | 60 | M36x4 | 300           | 15kg   |

# Machine Tool Fixture

**65880**

CK

Assembly Clamping Kit



## Features:

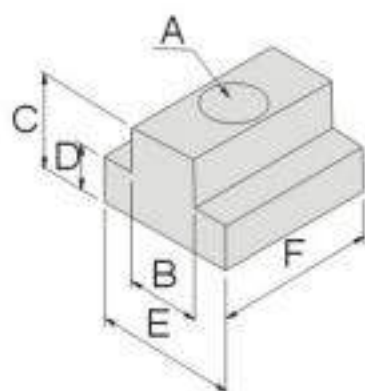
- Suitable for applying any type of machines to clamp mold & fixtures.
- Material: S45C and Hardened HRC30°~35°, Surface Finish: Black Oxide

52 pcs / set

## Clamp Stub:

Inch: L= 3", 4", 5", 6", 7", 8" x 4 pcs each

Metric: L= 75, 100, 125, 150, 175, 200mm x 4 pcs each



| Package       | 52 pcs combination |
|---------------|--------------------|
| Clamping Stub | 24PCS              |
| T-Slot Nut    | 6PCS               |
| Flange Nut    | 6PCS               |
| Extension Nut | 4PCS               |
| Step Clamp    | 3sets(6PCS)        |
| Step Clamp    | 6sets(12PCS)       |

| Unit:mm   |          |          |      |      |     |      |    |    | Package      |
|-----------|----------|----------|------|------|-----|------|----|----|--------------|
| Order No. | Model    | A        | B    | C    | D   | E    | F  | T  |              |
| 65880-01  | CK-8P    | M8X1.25  | 9.7  | 12   | 6   | 16   | 20 | 25 | Plastic Rack |
| 65880-02  | CK-10P   | M10X1.5  | 11.5 | 12   | 6.8 | 17.5 | 22 | 25 |              |
| 65880-03  | CK-12A1P | M12X1.75 | 13.8 | 15.9 | 8   | 22   | 28 | 25 |              |
| 65880-04  | CK-12A2P | M12X1.75 | 15.5 | 16   | 8   | 25   | 28 | 25 |              |
| 65880-05  | CK-12B1P | M12X1.75 | 13.8 | 15.9 | 8   | 22   | 28 | 32 |              |
| 65880-06  | CK-12B2P | M12X1.75 | 15.5 | 16   | 8   | 25   | 28 | 32 |              |
| 65880-07  | CK-14AP  | M14X2.0  | 15.5 | 16   | 8   | 25   | 28 | 25 |              |
| 65880-08  | CK-14BP  | M14X2.0  | 15.5 | 16   | 8   | 25   | 28 | 32 |              |
| 65880-09  | CK-16AP  | M16X2.0  | 17.5 | 19   | 11  | 28   | 31 | 25 |              |
| 65880-10  | CK-16BP  | M16X2.0  | 17.5 | 19   | 11  | 28   | 31 | 32 |              |
| 65880-11  | CK-18W   | M18X2.5  | 19.5 | 24   | 12  | 32   | 38 | 38 | Wooden Rack  |
| 65880-12  | CK-20W   | M20X2.5  | 21.7 | 28   | 14  | 35   | 38 | 38 |              |
| 65880-13  | CK-24C   | M24X3.0  | 27.5 | 36   | 18  | 44   | 49 | 50 | Wooden box   |

**65882**
**MK**
**Clamping Kits With Metal Racks**


### Features:

- ▶ Suitable for applying any type of machines to clamp mold & fixtures.
- ▶ Material: S45C and Hardened HRC30°~35°.
- ▶ Surface Finish: Black Oxide
- ▶ 58 pcs / set

| Order No. | Model   | Compatible T-slot | E   | kg   |
|-----------|---------|-------------------|-----|------|
| 65882-01  | MK-1210 | 12                | M10 | 8    |
| 65882-02  | MK-1412 | 14                | M12 | 9.5  |
| 65882-03  | MK-1614 | 16                | M14 | 10.5 |
| 65882-04  | MK-1816 | 18                | M16 | 19.0 |
| 65882-05  | MK-2018 | 20                | M18 | 21.0 |

|            |            |            |               |            |               |
|------------|------------|------------|---------------|------------|---------------|
|            |            |            |               |            |               |
| Step Clamp | Step Block | Flange Nut | Extension Nut | T-slot Nut | Clamping Stud |

| Model   | CP25                                   | SU25                                   | PT04      | PT05      | PT06      | PT07                                                                             |
|---------|----------------------------------------|----------------------------------------|-----------|-----------|-----------|----------------------------------------------------------------------------------|
| MK-1210 | CP25-10063<br>CP25-10100<br>CP25-10150 | SU25-25030<br>SU25-25045<br>SU25-25097 | PT04-1017 | PT05-1017 | PT06-1210 | PT07-10075<br>PT07-10100<br>PT07-10125<br>PT07-10150<br>PT07-10175<br>PT07-10200 |
| MK-1412 | CP25-12063<br>CP25-12100<br>CP25-12150 | SU25-25030<br>SU25-25045<br>SU25-25097 | PT04-1219 | PT05-1219 | PT06-1412 | PT07-12075<br>PT07-12100<br>PT07-12125<br>PT07-12150<br>PT07-12175<br>PT07-12200 |
| MK-1614 | CP25-14063<br>CP25-14100<br>CP25-14150 | SU25-25030<br>SU25-25045<br>SU25-25097 | PT04-1422 | PT05-1422 | PT06-1614 | PT07-14075<br>PT07-14100<br>PT07-14125<br>PT07-14150<br>PT07-14175<br>PT07-14200 |
| MK-1816 | CP25-16063<br>CP25-16100<br>CP25-16150 | SU25-25059<br>SU25-25097<br>SU25-25139 | PT04-1624 | PT05-1624 | PT06-1816 | PT07-16075<br>PT07-16100<br>PT07-16125<br>PT07-16150<br>PT07-16175<br>PT07-16200 |
| MK-2018 | CP25-18063<br>CP25-18100<br>CP25-18150 | SU25-25059<br>SU25-25097<br>SU25-25139 | PT04-1827 | PT05-1827 | PT06-2018 | PT07-18075<br>PT07-18100<br>PT07-18125<br>PT07-18150<br>PT07-18175<br>PT07-18200 |
| Content | 2 pcs each                             | 2 pairs each                           | 6 pcs     | 4 pcs     | 6 pcs     | 4 pcs each                                                                       |

※Sell as a set!

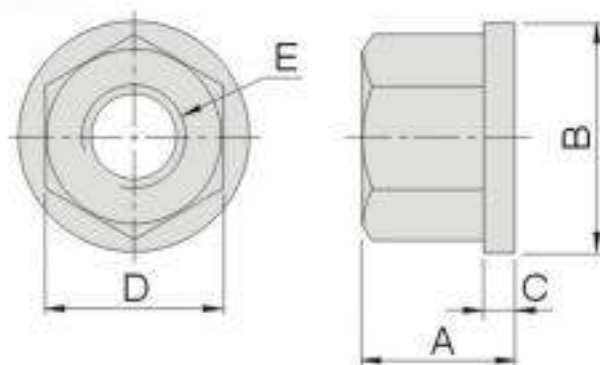
MACHINE TOOL  
FIXTURE

# Machine Tool Fixture

## 65884 PT04 Flange Nut



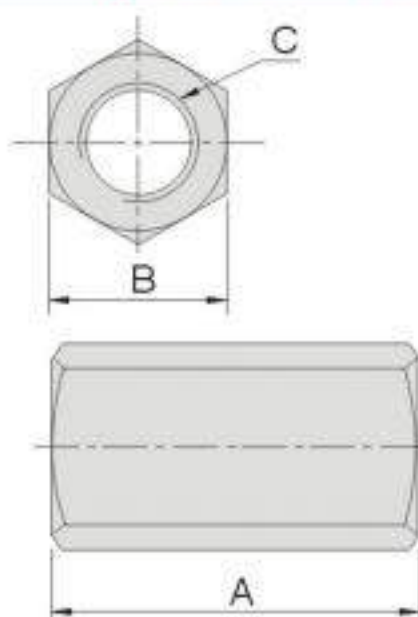
- Material: S45C
- Hardened HRC30°~35°
- Surface Finish: Black Oxide



Unit: mm

| Order No. | Model     | A  | B  | C | D  | E   | kg    |
|-----------|-----------|----|----|---|----|-----|-------|
| 65884-01  | PT04-0812 | 9  | 17 | 3 | 12 | M8  | 0.010 |
| 65884-02  | PT04-1017 | 13 | 22 | 3 | 17 | M10 | 0.020 |
| 65884-03  | PT04-1219 | 17 | 28 | 4 | 19 | M12 | 0.040 |
| 65884-04  | PT04-1422 | 17 | 28 | 4 | 22 | M14 | 0.040 |
| 65884-05  | PT04-1624 | 20 | 32 | 5 | 24 | M16 | 0.060 |
| 65884-06  | PT04-1827 | 20 | 35 | 5 | 27 | M18 | 0.070 |
| 65884-07  | PT04-2030 | 25 | 40 | 6 | 30 | M20 | 0.110 |
| 65884-08  | PT04-2232 | 28 | 45 | 6 | 32 | M22 | 0.150 |
| 65884-09  | PT04-2436 | 28 | 47 | 6 | 36 | M24 | 0.185 |

## 65886 PT05 Extension Nut



- Material: S45C
- Hardened HRC30°~35°
- Surface Finish: Black Oxide

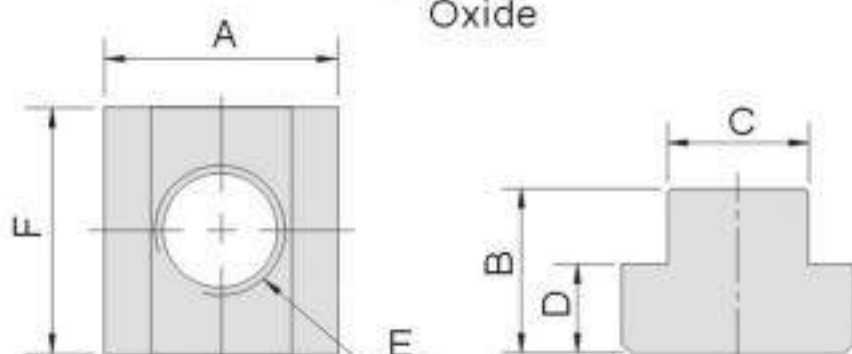
Unit: mm

| Order No. | Model     | A  | B  | C   | kg    |
|-----------|-----------|----|----|-----|-------|
| 65886-01  | PT05-1017 | 30 | 17 | M10 | 0.030 |
| 65886-02  | PT05-1219 | 36 | 19 | M12 | 0.046 |
| 65886-03  | PT05-1422 | 42 | 22 | M14 | 0.065 |
| 65886-04  | PT05-1624 | 48 | 24 | M16 | 0.110 |
| 65886-05  | PT05-1827 | 54 | 27 | M18 | 0.150 |
| 65886-06  | PT05-2030 | 60 | 30 | M20 | 0.220 |
| 65886-07  | PT05-2232 | 66 | 32 | M22 | 0.350 |
| 65886-08  | PT05-2436 | 72 | 36 | M24 | 0.350 |

## 65888 PT06 T-Slot Nut



- Material: S45C
- Hardened HRC30°~35°
- Surface Finish: Black Oxide



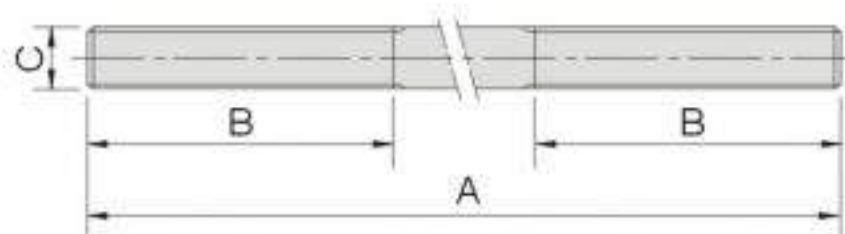
Unit: mm

| Order No. | Model     | A    | B    | C  | D    | E   | F  | kg    |
|-----------|-----------|------|------|----|------|-----|----|-------|
| 65888-01  | PT06-1008 | 15.0 | 13   | 10 | 6    | M8  | 22 | 0.020 |
| 65888-02  | PT06-1210 | 18.0 | 14   | 12 | 7    | M10 | 22 | 0.022 |
| 65888-03  | PT06-1410 | 22.0 | 16   | 14 | 8    | M10 | 28 | 0.050 |
| 65888-04  | PT06-1412 | 22.0 | 16   | 14 | 8    | M12 | 28 | 0.048 |
| 65888-05  | PT06-1612 | 25.0 | 16   | 16 | 8    | M12 | 28 | 0.060 |
| 65888-06  | PT06-1614 | 25.0 | 16   | 16 | 8    | M14 | 28 | 0.057 |
| 65888-07  | PT06-1810 | 28.0 | 20   | 18 | 10.5 | M10 | 30 | 0.090 |
| 65888-08  | PT06-1812 | 28.0 | 20   | 18 | 10.5 | M12 | 30 | 0.090 |
| 65888-09  | PT06-1814 | 28.0 | 20   | 18 | 10.5 | M14 | 30 | 0.090 |
| 65888-10  | PT06-1816 | 28.0 | 20   | 18 | 10.5 | M16 | 30 | 0.085 |
| 65888-11  | PT06-2016 | 32.0 | 19   | 20 | 11.9 | M16 | 30 | 0.098 |
| 65888-12  | PT06-2018 | 32.0 | 25   | 20 | 14.0 | M18 | 38 | 0.110 |
| 65888-13  | PT06-2218 | 36.0 | 25   | 22 | 14.0 | M18 | 38 | 0.178 |
| 65888-14  | PT06-2220 | 36.0 | 25   | 22 | 14.0 | M20 | 38 | 0.190 |
| 65888-15  | PT06-2418 | 38.0 | 25   | 24 | 14.0 | M18 | 38 | 0.184 |
| 65888-16  | PT06-2420 | 38.0 | 25   | 24 | 14.0 | M20 | 38 | 0.250 |
| 65888-17  | PT06-2620 | 41.3 | 25   | 26 | 15.8 | M20 | 44 | 0.250 |
| 65888-18  | PT06-2622 | 41.3 | 25   | 26 | 15.8 | M22 | 44 | 0.240 |
| 65888-19  | PT06-2822 | 44.0 | 28.5 | 28 | 17.5 | M22 | 50 | 0.330 |
| 65888-20  | PT06-2824 | 44.0 | 28.5 | 28 | 17.5 | M24 | 50 | 0.312 |

**65890**
**PT07**
**Clamping Stud**


- ▶ Material: S45C
- ▶ Hardened HRC22°~28°
- ▶ Surface Finish: Black Oxide

Unit: mm



| Order No. | Model      | A   | B   | C             | kg     |
|-----------|------------|-----|-----|---------------|--------|
| 65890-01  | PT07-08050 | 50  | 22  | M8<br>P=1.25  | 0.020  |
| 65890-02  | PT07-08075 | 75  | 22  |               | 0.030  |
| 65890-03  | PT07-08100 | 100 | 38  |               | 0.040  |
| 65890-04  | PT07-08125 | 125 | 38  |               | 0.050  |
| 65890-05  | PT07-08150 | 150 | 50  |               | 0.060  |
| 65890-06  | PT07-08175 | 175 | 50  |               | 0.0710 |
| 65890-07  | PT07-08200 | 200 | 50  |               | 0.080  |
| 65890-08  | PT07-08250 | 250 | 50  |               | 0.098  |
| 65890-09  | PT07-10050 | 50  | 22  | M10<br>P=1.5  | 0.030  |
| 65890-10  | PT07-10075 | 75  | 30  |               | 0.042  |
| 65890-11  | PT07-10100 | 100 | 38  |               | 0.055  |
| 65890-12  | PT07-10125 | 125 | 38  |               | 0.070  |
| 65890-13  | PT07-10150 | 150 | 50  |               | 0.090  |
| 65890-14  | PT07-10175 | 175 | 50  |               | 0.108  |
| 65890-15  | PT07-10200 | 200 | 65  |               | 0.123  |
| 65890-16  | PT07-10250 | 250 | 65  |               | 0.154  |
| 65890-17  | PT07-12050 | 50  | 22  | M12<br>P=1.75 | 0.040  |
| 65890-18  | PT07-12075 | 75  | 30  |               | 0.060  |
| 65890-19  | PT07-12100 | 100 | 38  |               | 0.080  |
| 65890-20  | PT07-12125 | 125 | 38  |               | 0.100  |
| 65890-21  | PT07-12150 | 150 | 50  |               | 0.125  |
| 65890-22  | PT07-12175 | 175 | 50  |               | 0.155  |
| 65890-23  | PT07-12200 | 200 | 65  |               | 0.160  |
| 65890-24  | PT07-12300 | 300 | 80  |               | 0.240  |
| 65890-25  | PT07-14050 | 50  | 22  | M14<br>P=2.0  | 0.060  |
| 65890-26  | PT07-14075 | 75  | 30  |               | 0.090  |
| 65890-27  | PT07-14100 | 100 | 38  |               | 0.120  |
| 65890-28  | PT07-14125 | 125 | 38  |               | 0.150  |
| 65890-29  | PT07-14150 | 150 | 50  |               | 0.180  |
| 65890-30  | PT07-14175 | 175 | 50  |               | 0.210  |
| 65890-31  | PT07-14200 | 200 | 65  |               | 0.240  |
| 65890-32  | PT07-16050 | 50  | 22  | M16<br>P=2.0  | 0.078  |
| 65890-33  | PT07-16075 | 75  | 30  |               | 0.120  |
| 65890-34  | PT07-16100 | 100 | 38  |               | 0.145  |
| 65890-35  | PT07-16125 | 125 | 38  |               | 0.180  |
| 65890-36  | PT07-16150 | 150 | 50  |               | 0.230  |
| 65890-37  | PT07-16175 | 175 | 50  |               | 0.276  |
| 65890-38  | PT07-16200 | 200 | 65  |               | 0.290  |
| 65890-39  | PT07-16250 | 250 | 65  |               | 0.350  |
| 65890-40  | PT07-16300 | 300 | 80  |               | 0.450  |
| 65890-41  | PT07-16400 | 400 | 100 |               | 0.580  |
| 65890-42  | PT07-16500 | 500 | 100 |               | 0.700  |

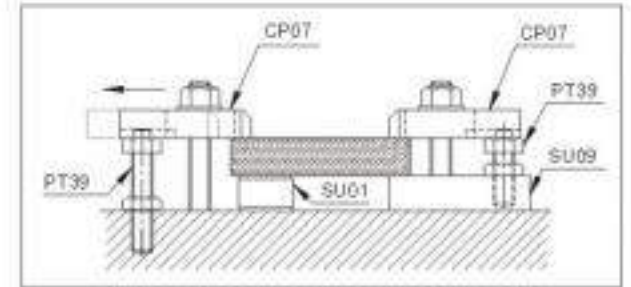
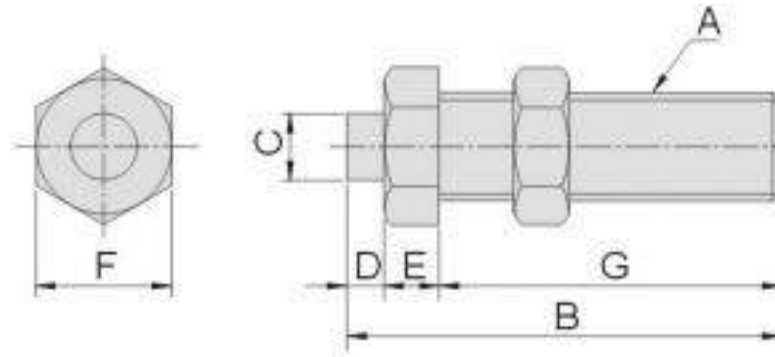
| Order No. | Model      | A   | B   | C            | kg    |
|-----------|------------|-----|-----|--------------|-------|
| 65890-43  | PT07-18050 | 50  | 22  | M18<br>P=2.5 | 0.100 |
| 65890-44  | PT07-18075 | 75  | 30  |              | 0.150 |
| 65890-45  | PT07-18100 | 100 | 38  |              | 0.200 |
| 65890-46  | PT07-18125 | 125 | 38  |              | 0.220 |
| 65890-47  | PT07-18150 | 150 | 50  |              | 0.300 |
| 65890-48  | PT07-18175 | 175 | 50  |              | 0.320 |
| 65890-49  | PT07-18200 | 200 | 65  |              | 0.360 |
| 65890-50  | PT07-18300 | 300 | 80  |              | 0.600 |
| 65890-51  | PT07-20050 | 50  | 22  | M20<br>P=2.5 | 0.125 |
| 65890-52  | PT07-20075 | 75  | 30  |              | 0.170 |
| 65890-53  | PT07-20100 | 100 | 38  |              | 0.230 |
| 65890-54  | PT07-20125 | 125 | 38  |              | 0.275 |
| 65890-55  | PT07-20150 | 150 | 50  |              | 0.360 |
| 65890-56  | PT07-20175 | 175 | 50  |              | 0.437 |
| 65890-57  | PT07-20200 | 200 | 65  |              | 0.450 |
| 65890-58  | PT07-20250 | 250 | 65  |              | 0.550 |
| 65890-59  | PT07-20300 | 300 | 80  |              | 0.700 |
| 65890-60  | PT07-20400 | 400 | 100 |              | 0.880 |
| 65890-61  | PT07-20500 | 500 | 100 |              | 1.100 |
| 65890-62  | PT07-22050 | 50  | 22  | M22<br>P=2.5 | 0.150 |
| 65890-63  | PT07-22075 | 75  | 30  |              | 0.223 |
| 65890-64  | PT07-22100 | 100 | 38  |              | 0.300 |
| 65890-65  | PT07-22125 | 125 | 38  |              | 0.373 |
| 65890-66  | PT07-22150 | 150 | 50  |              | 0.448 |
| 65890-67  | PT07-22175 | 175 | 50  |              | 0.522 |
| 65890-68  | PT07-22200 | 200 | 65  |              | 0.597 |
| 65890-69  | PT07-22250 | 250 | 65  |              | 0.746 |
| 65890-70  | PT07-22300 | 300 | 80  |              | 0.895 |
| 65890-71  | PT07-22400 | 400 | 100 |              | 1.194 |
| 65890-72  | PT07-22500 | 500 | 100 |              | 1.492 |
| 65890-73  | PT07-24050 | 50  | 22  | M24<br>P=3.0 | 0.177 |
| 65890-74  | PT07-24075 | 75  | 30  |              | 0.266 |
| 65890-75  | PT07-24100 | 100 | 38  |              | 0.355 |
| 65890-76  | PT07-24125 | 125 | 38  |              | 0.443 |
| 65890-77  | PT07-24150 | 150 | 50  |              | 0.533 |
| 65890-78  | PT07-24175 | 175 | 50  |              | 0.620 |
| 65890-79  | PT07-24200 | 200 | 65  |              | 0.710 |
| 65890-80  | PT07-24250 | 250 | 65  |              | 0.880 |
| 65890-81  | PT07-24300 | 300 | 80  |              | 1.065 |
| 65890-82  | PT07-24400 | 400 | 100 |              | 1.420 |
| 65890-83  | PT07-24500 | 500 | 100 |              | 1.775 |

# Machine Tool Fixture

**65892**

**PT39**

**Clamp Rest**



Unit: mm

- ▶ Material: S45C
- ▶ Hardened HRC30°~35°
- ▶ Surface Finish: Black Oxide

| Order No. | Model     | A   | B   | C   | D | E  | F  | G  | kg   |
|-----------|-----------|-----|-----|-----|---|----|----|----|------|
| 65892-01  | PT39-1219 | M12 | 75  | 9.5 | 6 | 9  | 19 | 60 | 0.09 |
| 65892-02  | PT39-1624 | M16 | 80  | 11  | 7 | 10 | 24 | 63 | 0.17 |
| 65892-03  | PT39-2030 | M20 | 100 | 12  | 8 | 12 | 30 | 80 | 0.35 |

**65894**

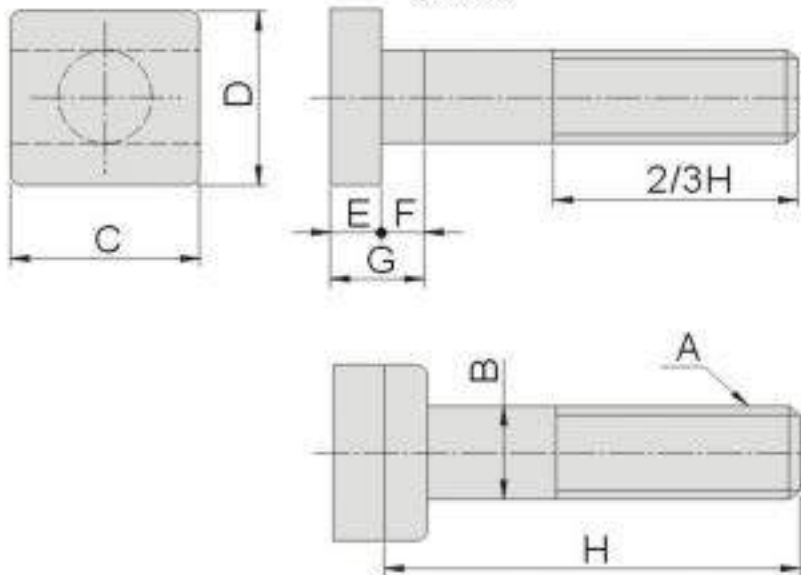
**PT40**

**T-Slot Bolt**



Unit: mm

- ▶ Material: S45C
- ▶ Hardened HRC30°~35°
- ▶ Surface Finish: Black Oxide



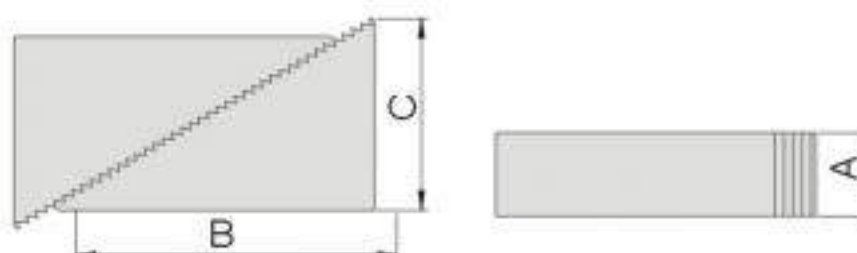
| Order No. | Model      | A   | B  | C  | D  | E  | F  | G  | H   | kg    |
|-----------|------------|-----|----|----|----|----|----|----|-----|-------|
| 65894-01  | PT40-12050 | M12 | 12 | 26 | 22 | 7  | 6  | 13 | 50  | 0.054 |
| 65894-02  | PT40-12075 |     |    |    |    |    |    |    | 75  | 0.057 |
| 65894-03  | PT40-12100 |     |    |    |    |    |    |    | 100 | 0.110 |
| 65894-04  | PT40-12125 |     |    |    |    |    |    |    | 125 | 0.125 |
| 65894-05  | PT40-12150 |     |    |    |    |    |    |    | 150 | 0.140 |
| 65894-06  | PT40-12175 |     |    |    |    |    |    |    | 175 | 0.170 |
| 65894-07  | PT40-12200 |     |    |    |    |    |    |    | 200 | 0.185 |
| 65894-08  | PT40-16050 | M16 | 16 | 32 | 27 | 8  | 8  | 16 | 50  | 0.130 |
| 65894-09  | PT40-16075 |     |    |    |    |    |    |    | 75  | 0.160 |
| 65894-10  | PT40-16100 |     |    |    |    |    |    |    | 100 | 0.020 |
| 65894-11  | PT40-16125 |     |    |    |    |    |    |    | 125 | 0.230 |
| 65894-12  | PT40-16150 |     |    |    |    |    |    |    | 150 | 0.270 |
| 65894-13  | PT40-16175 |     |    |    |    |    |    |    | 175 | 0.305 |
| 65894-14  | PT40-16200 |     |    |    |    |    |    |    | 200 | 0.325 |
| 65894-15  | PT40-18075 | M18 | 18 | 40 | 30 | 11 | 11 | 22 | 75  | 0.270 |
| 65894-16  | PT40-18100 |     |    |    |    |    |    |    | 100 | 0.320 |
| 65894-17  | PT40-18125 |     |    |    |    |    |    |    | 125 | 0.340 |
| 65894-18  | PT40-18150 |     |    |    |    |    |    |    | 150 | 0.385 |
| 65894-19  | PT40-18175 |     |    |    |    |    |    |    | 175 | 0.445 |
| 65894-20  | PT40-18200 |     |    |    |    |    |    |    | 200 | 0.490 |
| 65894-21  | PT40-20075 | M20 | 20 | 40 | 30 | 11 | 11 | 22 | 75  | 0.290 |
| 65894-22  | PT40-20100 |     |    |    |    |    |    |    | 100 | 0.350 |
| 65894-23  | PT40-20125 |     |    |    |    |    |    |    | 125 | 0.400 |
| 65894-24  | PT40-20150 |     |    |    |    |    |    |    | 150 | 0.455 |
| 65894-25  | PT40-20175 |     |    |    |    |    |    |    | 175 | 0.505 |
| 65894-26  | PT40-20200 |     |    |    |    |    |    |    | 200 | 0.560 |
| 65894-27  | PT40-20250 |     |    |    |    |    |    |    | 250 | 0.66  |
| 65894-28  | PT40-20315 | M22 | 22 | 40 | 38 | 14 | 13 | 27 | 315 | 1.00  |
| 65894-29  | PT40-22100 |     |    |    |    |    |    |    | 100 | 0.450 |
| 65894-30  | PT40-22125 |     |    |    |    |    |    |    | 125 | 0.510 |
| 65894-31  | PT40-22150 |     |    |    |    |    |    |    | 150 | 0.580 |
| 65894-32  | PT40-22175 |     |    |    |    |    |    |    | 175 | 0.635 |
| 65894-33  | PT40-22200 |     |    |    |    |    |    |    | 200 | 0.700 |
| 65894-34  | PT40-24100 | M24 | 24 | 50 | 44 | 16 | 15 | 31 | 100 | 0.650 |
| 65894-35  | PT40-24125 |     |    |    |    |    |    |    | 125 | 0.690 |
| 65894-36  | PT40-24150 |     |    |    |    |    |    |    | 150 | 0.775 |
| 65894-37  | PT40-24175 |     |    |    |    |    |    |    | 175 | 0.855 |
| 65894-38  | PT40-24200 |     |    |    |    |    |    |    | 200 | 0.925 |

# 65896 SU25 Step Block



Sold in pairs

- Material: S45C
- Hardened HRC 32°~38°
- Surface Finish: Black Oxide
- Applied with CP25.



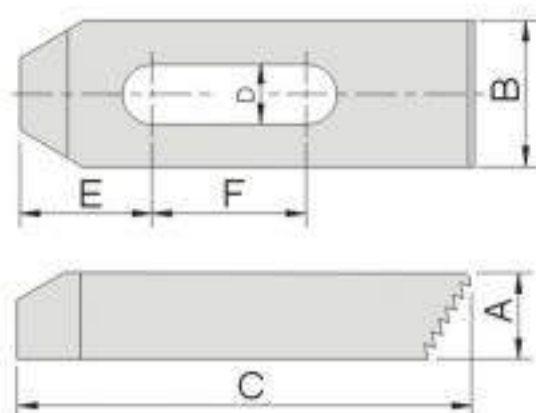
Unit: mm

| Order No. | Model      | Supporting Height | A  | B    | C  | kg   |
|-----------|------------|-------------------|----|------|----|------|
| 65896-01  | SU25-25030 | 19-49             | 25 | 29   | 17 | 0.05 |
| 65896-02  | SU25-25045 | 28-68             |    | 45   | 27 | 0.12 |
| 65896-03  | SU25-25097 | 58-150            |    | 97.5 | 57 | 0.50 |
| 65896-04  | SU25-32059 | 38-90             | 32 | 59   | 35 | 0.24 |
| 65896-05  | SU25-32097 | 58-150            |    | 97.5 | 57 | 0.62 |
| 65896-06  | SU25-32139 | 82-210            |    | 139  | 81 | 1.32 |
| 65896-07  | SU25-38059 | 36-90             | 38 | 59   | 35 | 0.29 |
| 65896-08  | SU25-38097 | 58-150            |    | 97.5 | 57 | 0.73 |
| 65896-09  | SU25-38139 | 82-210            |    | 139  | 81 | 1.60 |
| 65896-10  | SU25-50059 | 36-90             | 50 | 59   | 35 | 0.70 |
| 65896-11  | SU25-50097 | 58-150            |    | 97.5 | 57 | 1.66 |
| 65896-12  | SU25-50139 | 82-210            |    | 139  | 81 | 3.43 |

# 65898 CP25 Step Clamp



- Material: S45C
- Hardened HRC 32°~38°
- Surface Finish: Black Oxide
- Applied with SU25.



Unit: mm

| Order No. | Model      | A  | B  | C   | D  | E  | F  | G   | kg    |
|-----------|------------|----|----|-----|----|----|----|-----|-------|
| 65898-01  | CP25-10063 | 13 | 25 | 63  | 11 | 18 | 19 | M10 | 0.100 |
| 65898-02  | CP25-10100 | 16 | 25 | 100 |    | 27 | 37 |     | 0.215 |
| 65898-03  | CP25-10150 | 19 | 32 | 150 |    | 30 | 50 |     | 0.570 |
| 65898-04  | CP25-12063 | 13 | 25 | 63  | 13 | 20 | 14 | M12 | 0.100 |
| 65898-05  | CP25-12100 | 19 | 32 | 100 |    | 29 | 34 |     | 0.320 |
| 65898-06  | CP25-12150 | 22 | 32 | 150 |    | 32 | 50 |     | 0.650 |
| 65898-07  | CP25-14063 | 13 | 25 | 63  | 15 | 20 | 14 | M14 | 0.100 |
| 65898-08  | CP25-14100 | 19 | 32 | 100 |    | 29 | 34 |     | 0.315 |
| 65898-09  | CP25-14150 | 22 | 32 | 150 |    | 32 | 50 |     | 0.600 |
| 65898-10  | CP25-16063 | 16 | 32 | 63  | 17 | 22 | 12 | M16 | 0.160 |
| 65898-11  | CP25-16100 | 19 | 38 | 100 |    | 31 | 26 |     | 0.400 |
| 65898-12  | CP25-16150 | 22 | 38 | 150 |    | 40 | 47 |     | 0.710 |
| 65898-13  | CP25-18063 | 16 | 32 | 63  | 20 | 22 | 12 | M18 | 0.140 |
| 65898-14  | CP25-18100 | 19 | 38 | 100 |    | 31 | 26 |     | 0.380 |
| 65898-15  | CP25-18150 | 22 | 38 | 150 |    | 40 | 47 |     | 0.750 |
| 65898-16  | CP25-20100 | 19 | 38 | 100 | 21 | 31 | 26 | M20 | 0.360 |
| 65898-17  | CP25-20150 | 25 | 38 | 150 |    | 43 | 44 |     | 0.750 |
| 65898-18  | CP25-20200 | 25 | 50 | 200 |    | 55 | 65 |     | 1.500 |
| 65898-19  | CP25-24150 | 32 | 50 | 150 | 26 | 43 | 38 | M24 | 1.290 |
| 65898-20  | CP25-24200 | 32 | 50 | 200 |    | 53 | 57 |     | 2.000 |
| 65898-21  | CP25-24250 | 38 | 50 | 250 |    | 60 | 64 |     | 2.950 |

# Machine Tool Fixture

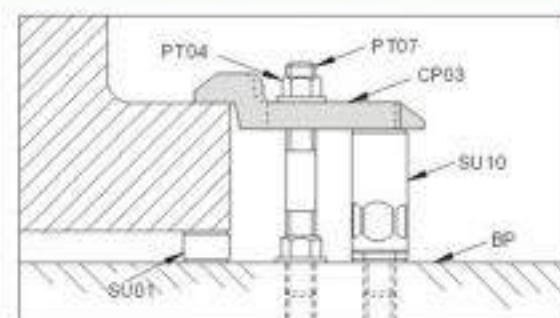
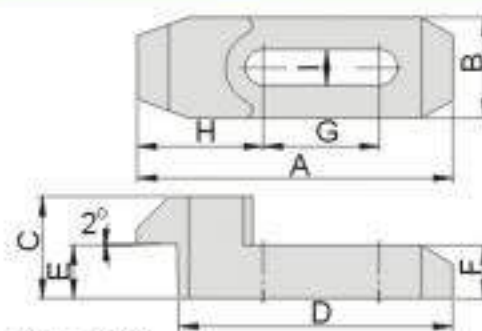
**65900**

**CP03**

**Goose Neck Clamp**



- Material: S45C
- Hardened HRC 32°~38°
- Surface Finish: Black Oxide
- Features: Lower nut height and less cutting tool interference.



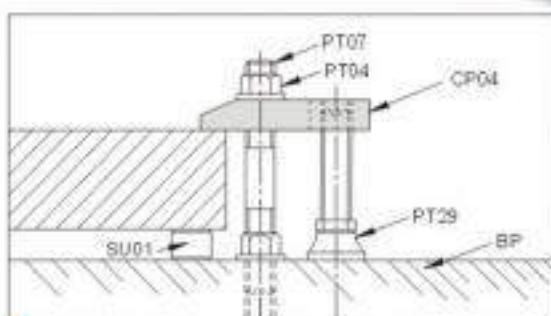
Unit: mm

| Order No. | Model      | A   | B  | C  | D   | E  | F  | G  | H  | I  | kg   |
|-----------|------------|-----|----|----|-----|----|----|----|----|----|------|
| 65900-01  | CP03-12120 | 120 | 36 | 30 | 102 | 16 | 17 | 50 | 45 | 13 | 0.49 |
| 65900-02  | CP03-16150 | 150 | 48 | 48 | 130 | 25 | 25 | 55 | 60 | 17 | 1.30 |
| 65900-03  | CP03-20175 | 175 | 60 | 60 | 150 | 30 | 30 | 65 | 70 | 21 | 2.26 |

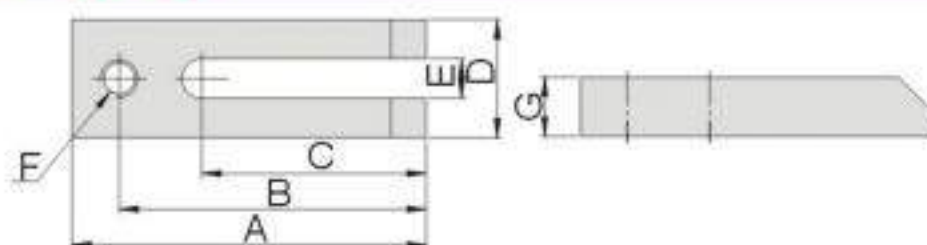
**65902**

**CP04**

**Tapped End U-Clamp**



- Material: S45C
- Hardened HRC 32°~38°
- Surface Finish: Black Oxide
- Features: for normal clamp, no need to fully remove nut to loosen the workpiece.



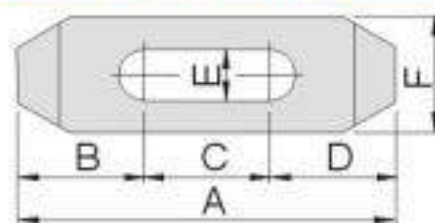
Unit: mm

| Order No. | Model      | A   | B   | C   | D  | E  | F   | G  | kg    |
|-----------|------------|-----|-----|-----|----|----|-----|----|-------|
| 65902-01  | CP04-12075 | 75  | 60  | 35  | 38 | 13 | M12 | 19 | 0.310 |
| 65902-02  | CP04-12100 | 100 | 85  | 60  | 38 | 13 | M12 | 25 | 0.520 |
| 65902-03  | CP04-12125 | 125 | 110 | 85  | 38 | 13 | M12 | 25 | 0.640 |
| 65902-04  | CP04-14100 | 100 | 84  | 64  | 38 | 15 | M14 | 25 | 0.390 |
| 65902-05  | CP04-14150 | 150 | 134 | 89  | 38 | 15 | M14 | 25 | 0.620 |
| 65902-06  | CP04-16100 | 100 | 80  | 45  | 50 | 17 | M16 | 25 | 0.730 |
| 65902-07  | CP04-16125 | 125 | 105 | 70  | 50 | 17 | M16 | 25 | 0.900 |
| 65902-08  | CP04-16150 | 150 | 130 | 95  | 50 | 17 | M16 | 25 | 1.060 |
| 65902-09  | CP04-18150 | 150 | 130 | 89  | 50 | 19 | M18 | 32 | 1.050 |
| 65902-10  | CP04-18200 | 200 | 180 | 127 | 50 | 19 | M18 | 32 | 1.450 |
| 65902-11  | CP04-20150 | 150 | 130 | 95  | 60 | 21 | M20 | 32 | 1.460 |
| 65902-12  | CP04-20200 | 200 | 180 | 145 | 60 | 21 | M20 | 32 | 1.850 |

**65904**

**CP05**

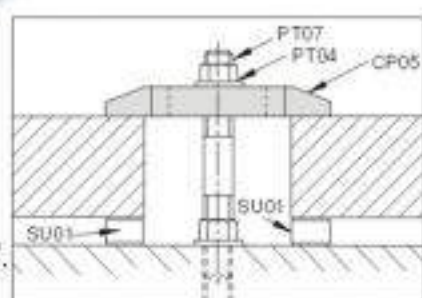
**Double Ended Clamp**



Unit: mm



- Material: S45C
- Hardened HRC 32°~38°
- Surface Finish: Black Oxide
- Features: for normal clamp,

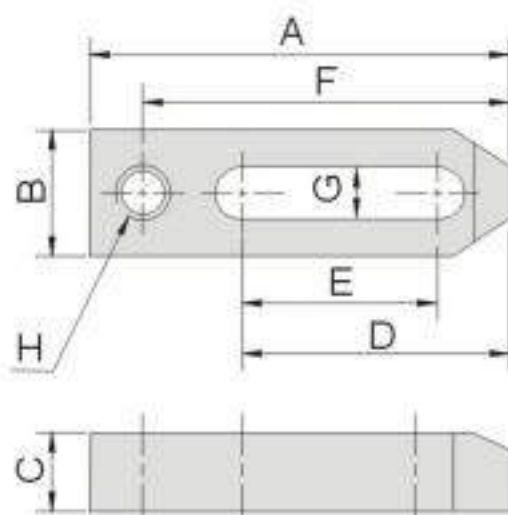
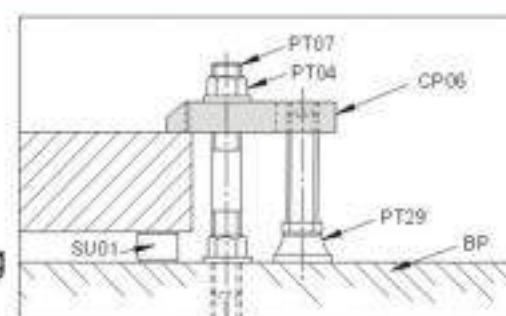


| Order No. | Model      | A   | B    | C  | D    | E  | F  | G  | H  | kg    |
|-----------|------------|-----|------|----|------|----|----|----|----|-------|
| 65904-01  | CP05-12065 | 65  | 20   | 25 | 20   | 13 | 32 | 19 | 13 | 0.220 |
| 65904-02  | CP05-12100 | 100 | 30   | 40 | 30   | 13 | 32 | 19 | 13 | 0.330 |
| 65904-03  | CP05-12150 | 150 | 49.5 | 51 | 49.5 | 13 | 32 | 25 | 15 | 0.480 |
| 65904-04  | CP05-16080 | 80  | 28   | 24 | 28   | 17 | 38 | 22 | 14 | 0.340 |
| 65904-05  | CP05-16125 | 125 | 42   | 41 | 42   | 17 | 38 | 22 | 14 | 0.570 |
| 65904-06  | CP05-16150 | 150 | 51   | 48 | 51   | 17 | 38 | 25 | 15 | 0.680 |
| 65904-07  | CP05-20100 | 100 | 34   | 32 | 34   | 21 | 38 | 22 | 14 | 0.410 |
| 65904-08  | CP05-20125 | 125 | 42.5 | 40 | 42.5 | 21 | 38 | 25 | 15 | 0.620 |
| 65904-09  | CP05-20150 | 150 | 51   | 48 | 51   | 21 | 38 | 25 | 15 | 0.820 |

## 65906 CP06 Tapped Clamp Strap



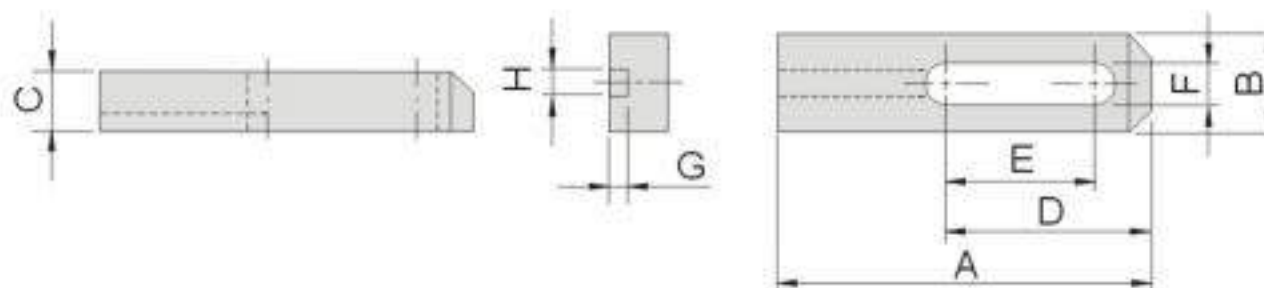
- Material: S45C
- Hardened HRC 32°~38°
- Surface Finish: Black Oxide
- Features: applied with PT29 supporting clamp for single way.



Unit: mm

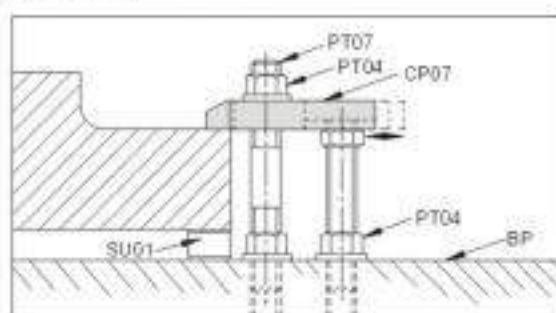
| Order No. | Model      | A   | B  | C  | D   | E  | F   | G  | H   | kg   |
|-----------|------------|-----|----|----|-----|----|-----|----|-----|------|
| 65906-01  | CP06-12065 | 65  | 32 | 19 | 32  | 14 | 52  | 13 | M12 | 0.22 |
| 65906-02  | CP06-12080 | 80  | 32 | 19 | 48  | 25 | 69  | 13 | M12 | 0.27 |
| 65906-03  | CP06-12100 | 100 | 32 | 19 | 60  | 40 | 89  | 13 | M12 | 0.33 |
| 65906-04  | CP06-16080 | 80  | 38 | 19 | 40  | 17 | 65  | 17 | M16 | 0.32 |
| 65906-05  | CP06-16100 | 100 | 38 | 25 | 55  | 30 | 85  | 17 | M16 | 0.53 |
| 65906-06  | CP06-16125 | 125 | 38 | 25 | 70  | 45 | 110 | 17 | M16 | 0.65 |
| 65906-07  | CP06-20150 | 150 | 50 | 25 | 82  | 50 | 134 | 21 | M20 | 1.10 |
| 65906-08  | CP06-20200 | 200 | 50 | 32 | 112 | 80 | 184 | 21 | M20 | 1.90 |

## 65908 CP07 Slotted End Clamp Strap



- Material: S45C
- Hardened HRC 32°~38°
- Surface Finish: Black Oxide

- Features: Locating slot keeps clamp properly oriented.



Unit: mm

| Order No. | Model      | A   | B  | C  | D   | E  | F  | G | H  | kg    |
|-----------|------------|-----|----|----|-----|----|----|---|----|-------|
| 65908-01  | CP07-12065 | 65  | 32 | 22 | 32  | 14 | 13 | 7 | 10 | 0.260 |
| 65908-02  | CP07-12080 | 80  | 32 | 22 | 48  | 25 | 13 | 7 | 10 | 0.310 |
| 65908-03  | CP07-12100 | 100 | 32 | 22 | 60  | 40 | 13 | 7 | 10 | 0.385 |
| 65908-04  | CP07-16080 | 80  | 38 | 22 | 40  | 17 | 17 | 8 | 12 | 0.380 |
| 65908-05  | CP07-16100 | 100 | 38 | 25 | 55  | 30 | 17 | 8 | 12 | 0.530 |
| 65908-06  | CP07-16125 | 125 | 38 | 25 | 70  | 45 | 17 | 8 | 12 | 0.650 |
| 65908-07  | CP07-20150 | 150 | 50 | 25 | 82  | 50 | 21 | 9 | 13 | 1.100 |
| 65908-08  | CP07-20200 | 200 | 50 | 32 | 112 | 80 | 21 | 9 | 13 | 1.400 |

## 65910 U Free Clamp



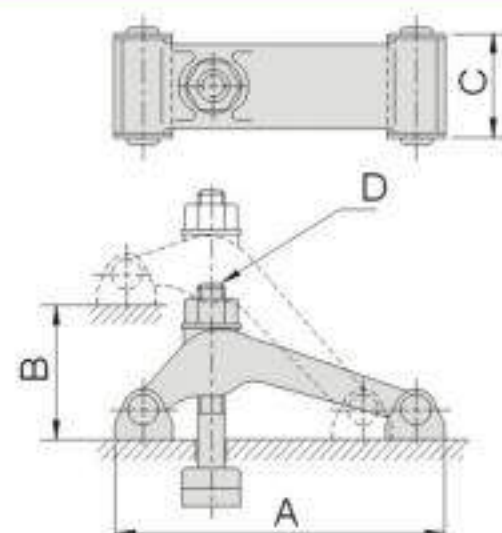
- Material: S45C
- Hardened HRC 32°~38°
- Surface Finish: Black Oxide

Unit: mm

| Order No. | Model  | Screw | Size        | kg  |
|-----------|--------|-------|-------------|-----|
| 65910-01  | U-1/2" | 1/2"  | 105x45x35mm | 2.0 |
| 65910-02  | U-5/8" | 5/8"  | 126x54x40mm | 3.0 |
| 65910-03  | U-3/4" | 3/4"  | 152x60x55mm | 4.5 |

# Machine Tool Fixture

## 65912 CP19 Forged Swivel Clamp

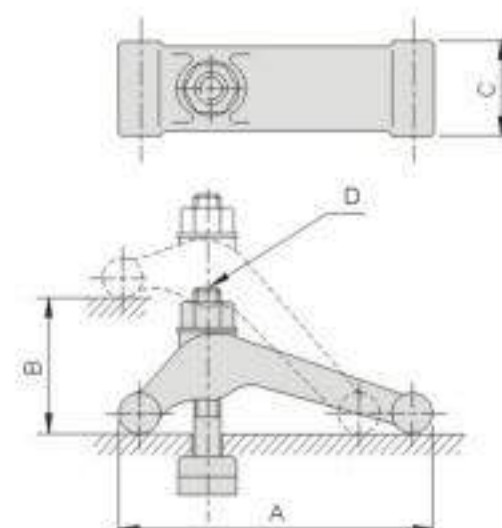


Unit: mm

- Material: S45C
- Hardened HRC 32°~38°.
- Surface Finish: Black Oxide

| Order No. | Model      | A   | B   | C    | D       | kg   |
|-----------|------------|-----|-----|------|---------|------|
| 65912-01  | CP19-12125 | 131 | 75  | 46.5 | M12-125 | 1.50 |
| 65912-02  | CP19-16150 | 156 | 85  | 55   | M16-150 | 2.64 |
| 65912-03  | CP19-20194 | 201 | 105 | 62   | M20-175 | 4.80 |

## 65914 CP20 Forged Swivel Clamp

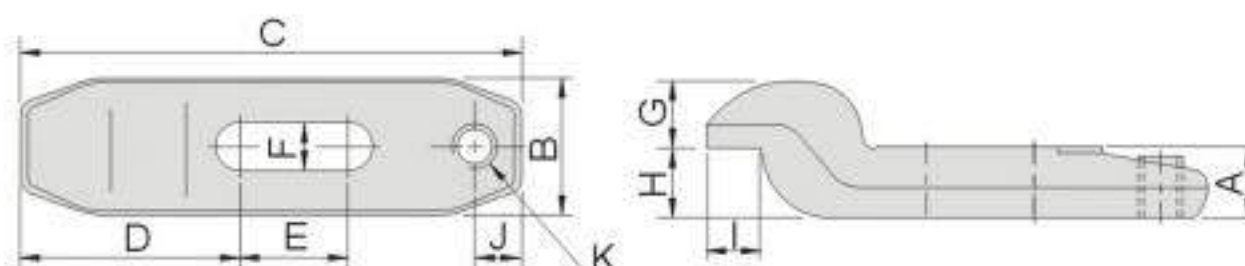


Unit: mm

- Material: S45C
- Hardened HRC 32°~38°.
- Surface Finish: Black Oxide

| Order No. | Model      | A   | B   | C  | D       | kg   |
|-----------|------------|-----|-----|----|---------|------|
| 65914-01  | CP20-12125 | 125 | 75  | 45 | M12-125 | 1.40 |
| 65914-02  | CP20-16150 | 150 | 85  | 52 | M16-150 | 2.42 |
| 65914-03  | CP20-20194 | 194 | 105 | 58 | M20-175 | 4.50 |

## 65916 CP27 Threaded Goose Neck Clamp

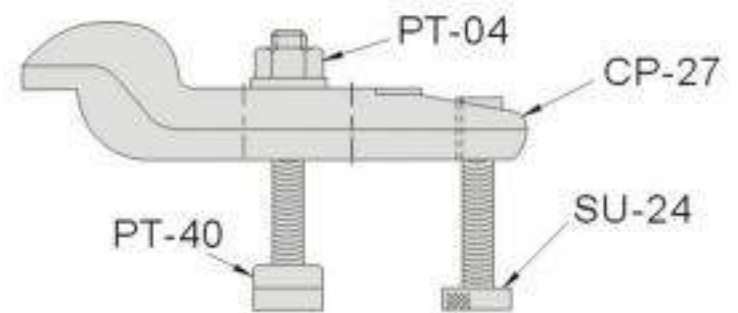


Unit: mm

- Material: S45C
- Hardened HRC 32°~38°.
- Surface Finish: Black Oxide

| Order No. | Model      | A  | B  | C   | D    | E  | F  | G  | H  | I  | J  | K        | FITS BOLTS | CB    | kg   |
|-----------|------------|----|----|-----|------|----|----|----|----|----|----|----------|------------|-------|------|
| 65916-01  | CP27-16100 | 19 | 35 | 100 | 46.5 | 7  | 17 | 14 | 21 | 14 | 10 | M12x1.75 | M14        | CB-12 | 0.78 |
| 65916-02  | CP27-16150 | 22 | 45 | 150 | 62.0 | 26 | 17 | 15 | 24 | 22 | 12 | M16x2    | M16        | CB-16 | 1.70 |

## 65918 CP28 Goose Neck Clamp

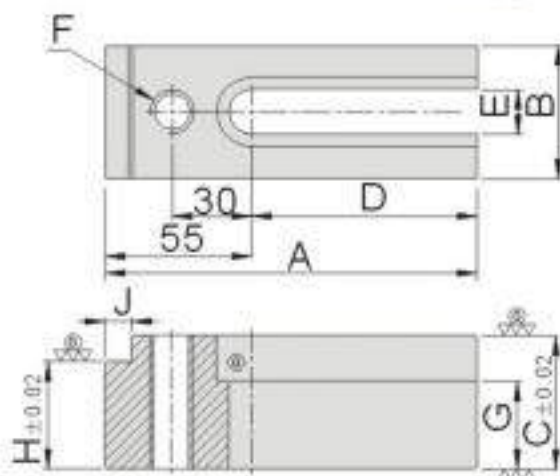


Unit: mm

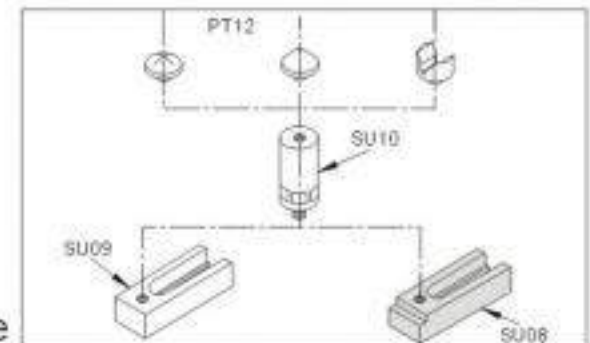
- Material: S45C
- Hardened HRC 32°~38°
- Surface Finish: Black Oxide

| Order No. | Model      | CP27  | PT40  | PT04 | SU24  | kg   |
|-----------|------------|-------|-------|------|-------|------|
| 65918-01  | CP28-ZC-40 | 16100 | 16100 | 1624 | 12060 | 1.50 |
| 65918-02  | CP28-ZC-60 | 16150 | 16100 | 1624 | 16070 | 2.60 |

## 65920 SU08 Extension Support



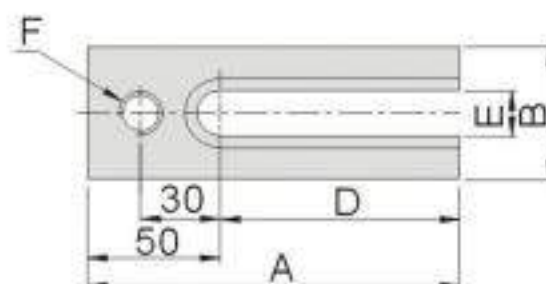
- Material: S45C
- Hardened HRC 40°
- Surface Finish: Black Oxide



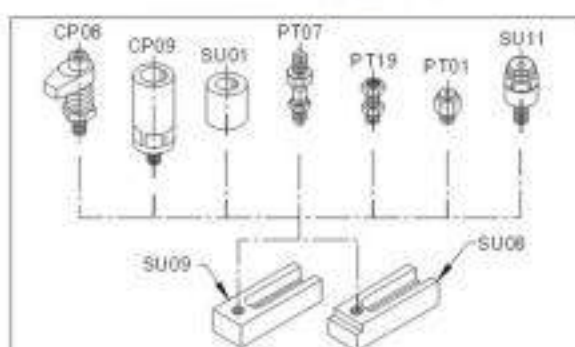
Unit: mm

| Order No. | Model         | A   | B  | C  | D  | E  | F   | G  | H  | J  | kg  |
|-----------|---------------|-----|----|----|----|----|-----|----|----|----|-----|
| 65920-01  | SU08-12140-30 | 140 | 40 | 40 | 85 | 13 | M12 | 26 | 30 | 10 | 1.3 |
| 65920-02  | SU08-12140-40 | 140 | 40 | 50 | 85 | 13 | M12 | 36 | 40 | 10 | 1.6 |
| 65920-03  | SU08-16140-30 | 140 | 50 | 40 | 85 | 17 | M16 | 22 | 30 | 10 | 1.5 |
| 65920-04  | SU08-16140-40 | 140 | 50 | 50 | 85 | 17 | M16 | 32 | 40 | 10 | 1.9 |

## 65922 SU09 Extension Support



- Material: S45C
- Hardened HRC 40°
- Surface Finish: Black Oxide



Unit: mm

| Order No. | Model         | A   | B  | C  | D  | E  | F   | G  | kg   |
|-----------|---------------|-----|----|----|----|----|-----|----|------|
| 65922-01  | SU09-12120-30 | 120 | 40 | 30 | 70 | 13 | M12 | 16 | 0.85 |
| 65922-02  | SU09-12120-40 | 120 | 40 | 40 | 70 | 13 | M12 | 26 | 1.10 |
| 65922-03  | SU09-16140-30 | 140 | 50 | 30 | 90 | 17 | M16 | 12 | 1.14 |
| 65922-04  | SU09-16140-40 | 140 | 50 | 40 | 90 | 17 | M16 | 22 | 1.52 |

## Machine Tool Fixture

**65924**
**CP14A**
**Pivoting Side Clamp**

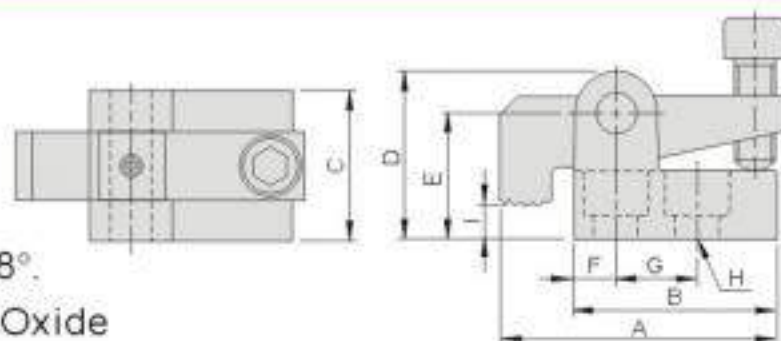

Material: S45C

Hardened HRC 32°~38°.

Surface Finish: Black Oxide

Features: suitable for castings and odd shaped workpieces. Pivoting nose has a serrated jaw that clamps forward and downward simultaneously.

Unit: mm



| Order No. | Model        | A    | B  | C  | D  | E  | F    | G  | H  | I    | kg   |
|-----------|--------------|------|----|----|----|----|------|----|----|------|------|
| 65924-01  | CP14A-126045 | 81.5 | 60 | 44 | 49 | 37 | 12.5 | 24 | 13 | 5-15 | 0.78 |
| 65924-02  | CP14A-169068 | 121  | 91 | 68 | 64 | 47 | 18   | 36 | 18 | 5-15 | 2.26 |

**65926**
**CP14B**
**Pivoting Side Clamp**

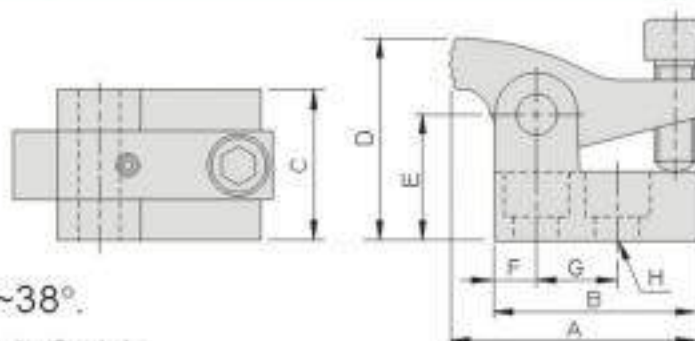

Material: S45C

Hardened HRC 32°~38°.

Surface Finish: Black Oxide

Features: suitable for castings and odd shaped workpieces. Pivoting nose has a serrated jaw that clamps forward and downward simultaneously.

Unit: mm



| Order No. | Model        | A    | B  | C  | D    | E  | F    | G  | H  | kg   |
|-----------|--------------|------|----|----|------|----|------|----|----|------|
| 65926-01  | CP14B-126045 | 72.5 | 60 | 44 | 59.5 | 37 | 12.5 | 24 | 13 | 0.73 |
| 65926-02  | CP14B-169068 | 108  | 91 | 68 | 82   | 47 | 18   | 36 | 18 | 2.20 |

**65928**
**CP14C**
**Pivoting Side Clamp**

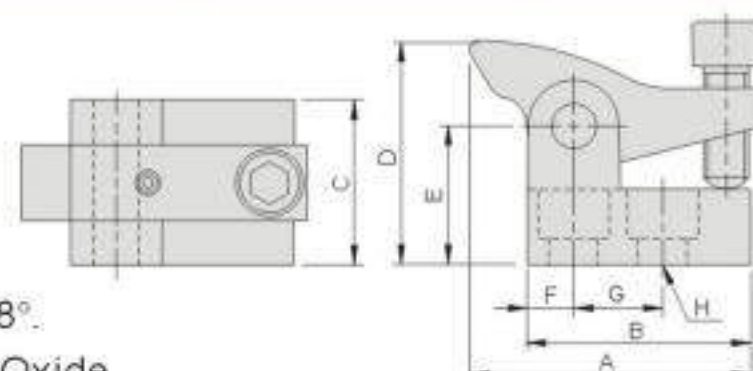

Material: S45C

Hardened HRC 32°~38°.

Surface Finish: Black Oxide

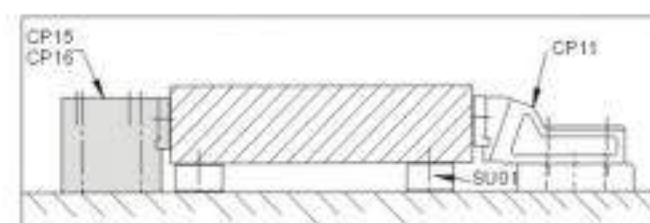
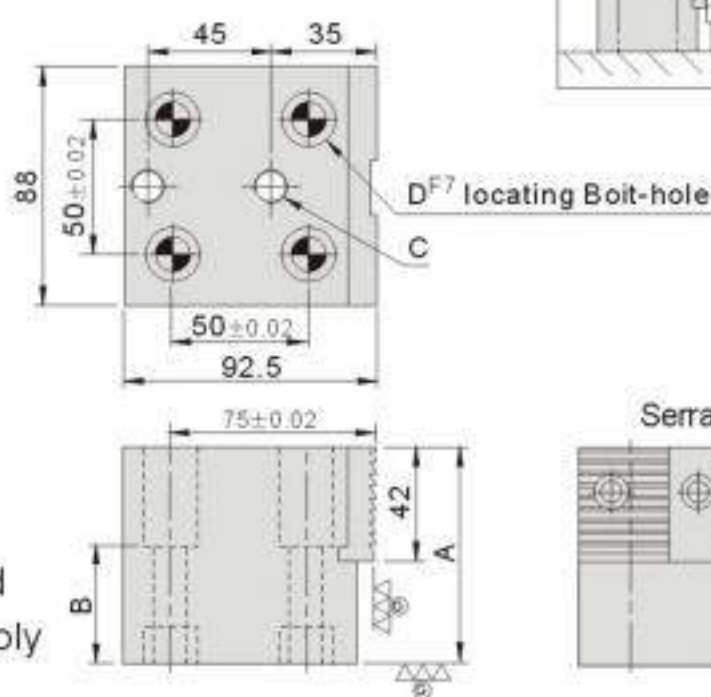
Features: suitable for castings and odd shaped workpieces. Pivoting nose has a serrated jaw that clamps forward and downward simultaneously.

Unit: mm



| Order No. | Model        | A   | B  | C  | D    | E  | F    | G  | H  | kg   |
|-----------|--------------|-----|----|----|------|----|------|----|----|------|
| 65928-01  | CP14C-126045 | 75  | 60 | 44 | 59.5 | 37 | 12.5 | 24 | 13 | 0.73 |
| 65928-02  | CP14C-169068 | 110 | 91 | 68 | 82   | 47 | 18   | 36 | 18 | 2.12 |

## 65930 CP15 Serrated Block Stop

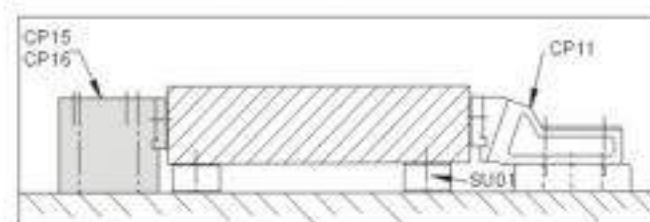
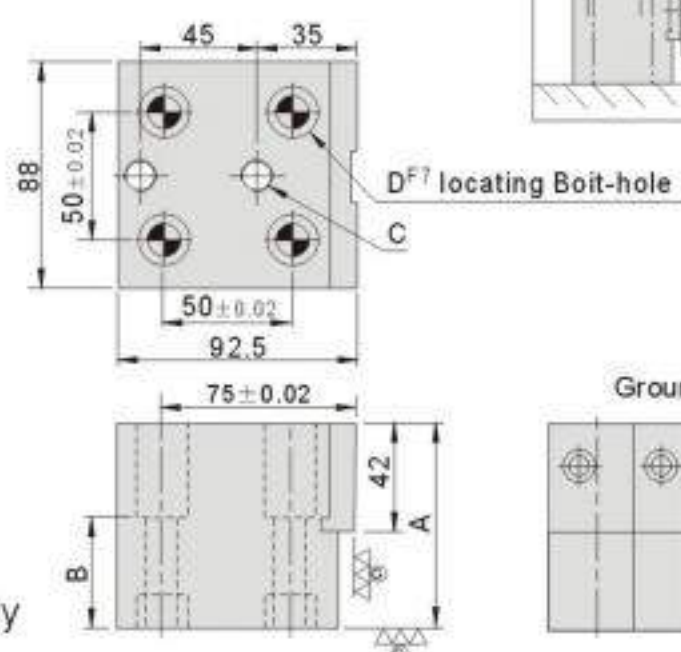


- Material: S45C (Body), YK30 (Jaw)
- Hardened HRC 40°(Body) / 58°(Jaw)
- Surface Finish: Black Oxide
- Features: suitable for castings and odd shaped workpieces. Can apply with CP11

Unit: mm

| Order No. | Model     | A  | B  | C   | D (F7) | kg   |
|-----------|-----------|----|----|-----|--------|------|
| 65930-01  | CP15-1265 | 65 | 43 | M12 | 12     | 3.52 |
| 65930-02  | CP15-1280 | 80 | 58 | M12 | 12     | 4.22 |
| 65930-03  | CP15-1665 | 65 | 38 | M16 | 16     | 3.24 |
| 65930-04  | CP15-1680 | 80 | 53 | M16 | 16     | 3.78 |

## 65932 CP16 Ground Block Stop



- Material: S45C (Body), YK30 (Jaw)
- Hardened HRC 40°(Body) / 58°(Jaw)
- Surface Finish: Black Oxide
- Features: suitable for castings and odd shaped workpieces. Can apply with CP11

Unit: mm

| Order No. | Model     | A  | B  | C   | D (F7) | kg   |
|-----------|-----------|----|----|-----|--------|------|
| 65932-01  | CP16-1265 | 65 | 43 | M12 | 12     | 3.54 |
| 65932-02  | CP16-1280 | 80 | 58 | M12 | 12     | 4.22 |
| 65932-03  | CP16-1665 | 65 | 38 | M16 | 16     | 3.28 |
| 65932-04  | CP16-1680 | 80 | 53 | M16 | 16     | 3.78 |

# Machine Tool Fixture

**65934**

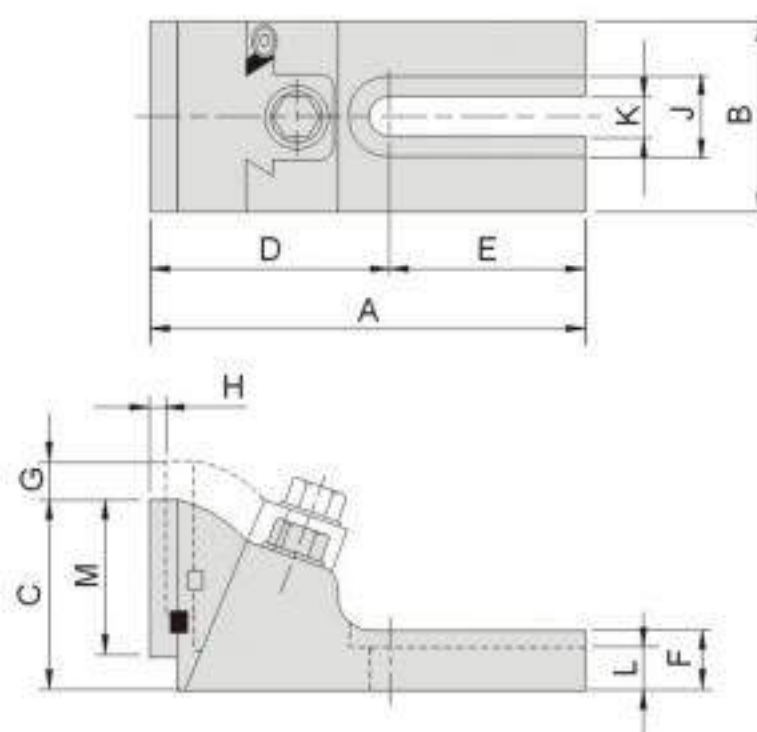
**CP23**

**Free Vise**



Sold in pairs

- ▶ Material: FCD45C (Body), YK30 (Jaw)
- ▶ Hardened HRC 40°(Body) / 55°(Jaw)
- ▶ Surface Finish: Black Oxide



Unit: mm

| Order No. | Model      | A   | B   | C   | D   | E   | F  | G  | H | J  | K    | L    | M  | kg   |
|-----------|------------|-----|-----|-----|-----|-----|----|----|---|----|------|------|----|------|
| 65934-01  | CP23-12140 | 142 | 70  | 70  | 87  | 55  | 25 | 15 | 5 | 29 | 14.5 | 20.5 | 60 | 6.30 |
| 65934-02  | CP23-16195 | 192 | 85  | 85  | 103 | 88  | 30 | 20 | 7 | 37 | 17   | 24   | 70 | 11.0 |
| 65934-03  | CP23-20220 | 220 | 110 | 104 | 120 | 100 | 26 | 25 | 9 | 42 | 21   | 28   | 85 | 21.0 |

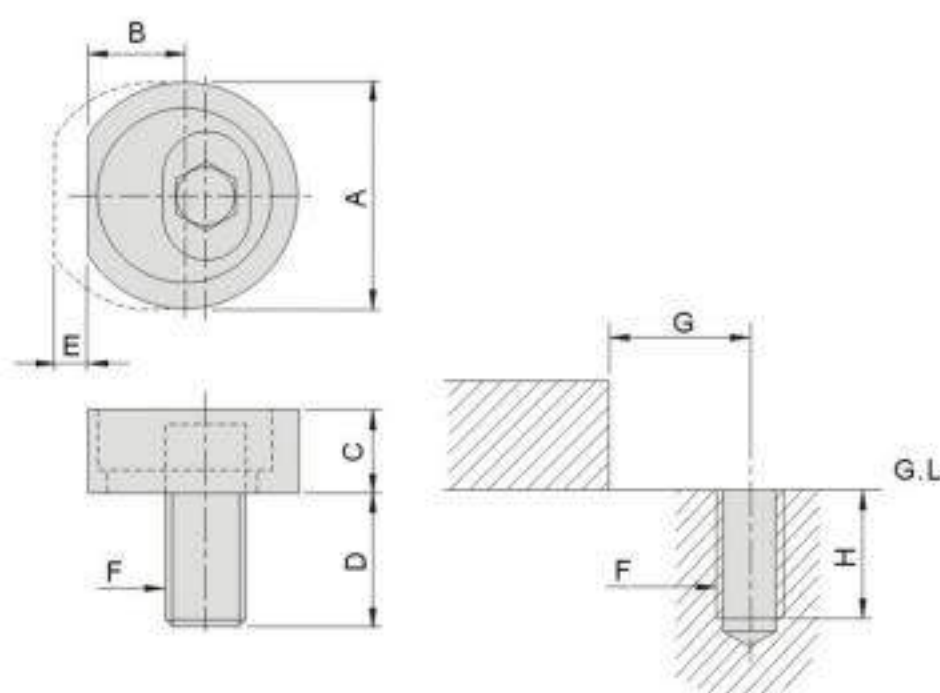
**65936**

**CP24**

**Eccentric Cam Lock**

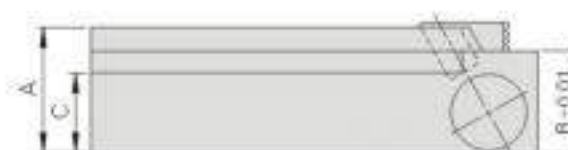
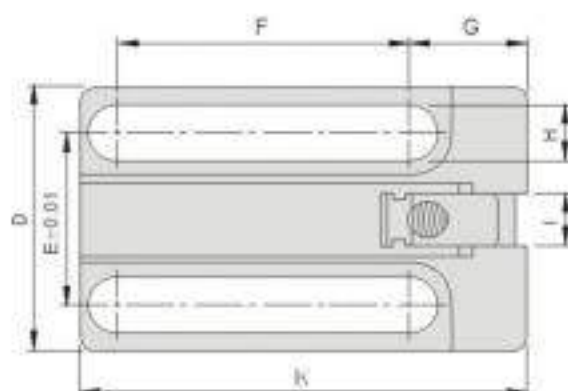


- ▶ Material: S45C
- ▶ Hardened HRC 32°~38°
- ▶ Surface Finish: Black Oxide



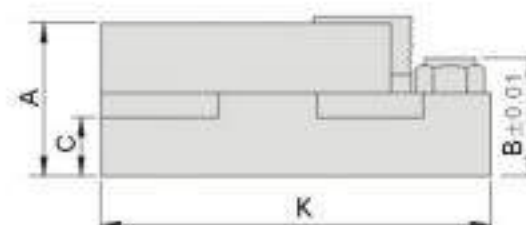
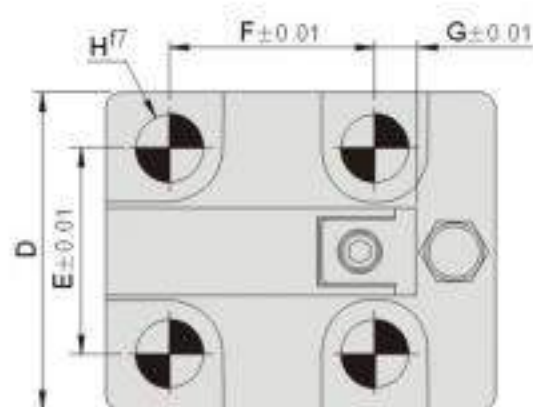
Unit: mm

| Order No. | Model     | A  | B    | C  | D    | E | F   | G    | H  | kg    |
|-----------|-----------|----|------|----|------|---|-----|------|----|-------|
| 65936-01  | CP24-0824 | 24 | 11   | 6  | 12.8 | 3 | M8  | 11.5 | 17 | 0.020 |
| 65936-02  | CP24-1026 | 26 | 11.8 | 8  | 14.3 | 4 | M10 | 12.5 | 22 | 0.030 |
| 65936-03  | CP24-1230 | 30 | 13.5 | 9  | 17.8 | 5 | M12 | 14.5 | 22 | 0.050 |
| 65936-04  | CP24-1638 | 38 | 16   | 12 | 20.8 | 6 | M16 | 17.5 | 26 | 0.115 |

**65938**
**CP31**
**Clamping Parts**


Unit: mm

| Order No. | Model     | A  | B  | C  | D  | E  | F  | G    | H    | I  | K   | L  | kg   |
|-----------|-----------|----|----|----|----|----|----|------|------|----|-----|----|------|
| 65938-01  | CP31-1240 | 37 | 30 | 23 | 67 | 40 | 80 | 33   | 13   | 15 | 125 | 21 | 1.36 |
| 65938-02  | CP31-1250 | 37 | 30 | 23 | 77 | 50 | 85 | 33   | 13   | 15 | 130 | 21 | 1.71 |
| 65938-03  | CP31-1650 | 37 | 30 | 23 | 77 | 50 | 85 | 34.5 | 16.5 | 15 | 130 | 21 | 1.54 |

**65940**
**CP32**
**Block Stop**


Unit: mm

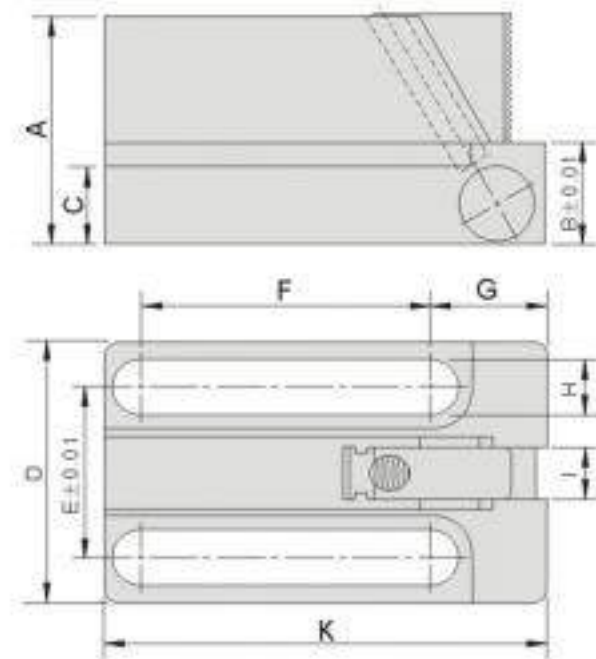
| Order No. | Model     | A  | B  | C  | D  | E  | F  | G  | H  | K  | kg   |
|-----------|-----------|----|----|----|----|----|----|----|----|----|------|
| 65940-01  | CP32-1240 | 37 | 30 | 12 | 67 | 40 | 40 | 10 | 12 | 80 | 0.86 |
| 65940-02  | CP32-1250 | 37 | 30 | 12 | 77 | 50 | 50 | 10 | 12 | 95 | 1.19 |
| 65940-03  | CP32-1650 | 37 | 30 | 15 | 77 | 50 | 50 | 10 | 16 | 95 | 1.14 |

# Machine Tool Fixture

**65942**

CP33

Clamping Parts



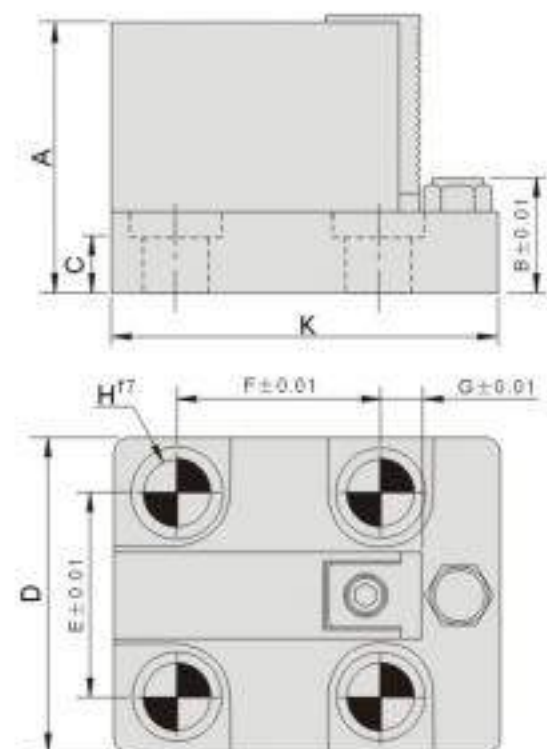
Unit: mm

| Order No. | Model     | A  | B  | C  | D  | E  | F  | G    | H    | I  | K   | kg   |
|-----------|-----------|----|----|----|----|----|----|------|------|----|-----|------|
| 65942-01  | CP33-1240 | 67 | 30 | 30 | 67 | 40 | 80 | 33   | 13   | 15 | 125 | 2.02 |
| 65942-02  | CP33-1250 | 67 | 30 | 30 | 77 | 50 | 85 | 33   | 13   | 15 | 130 | 2.45 |
| 65942-03  | CP33-1650 | 67 | 30 | 30 | 77 | 50 | 85 | 34.5 | 16.5 | 15 | 130 | 2.25 |

**65944**

CP34

Block Stop



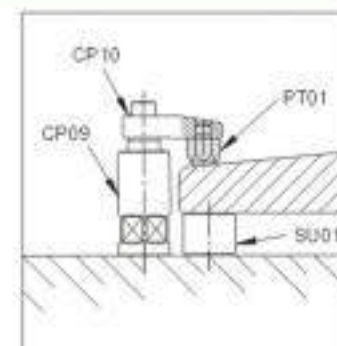
Unit: mm

| Order No. | Model     | A  | B  | C  | D  | E  | F  | G  | H  | K  | kg   |
|-----------|-----------|----|----|----|----|----|----|----|----|----|------|
| 65944-01  | CP34-1240 | 67 | 30 | 12 | 67 | 40 | 40 | 10 | 12 | 80 | 1.24 |
| 65944-02  | CP34-1250 | 67 | 30 | 12 | 77 | 50 | 50 | 10 | 12 | 95 | 1.60 |
| 65944-03  | CP34-1650 | 67 | 30 | 15 | 77 | 50 | 50 | 10 | 16 | 95 | 1.52 |

## 65946 PT01 Smooth Ball End Bolt



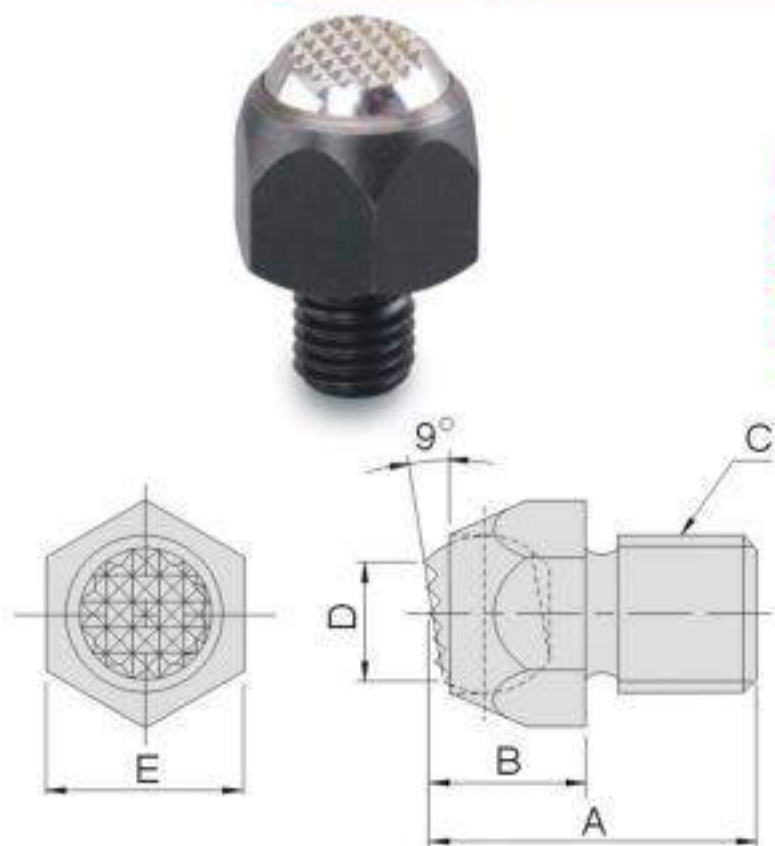
- Material: S45C (Bolt), SUJ2 (Ball)
- Hardened HRC 28°~32°(Bolt) / 62°(Ball)
- Surface Finish: Black Oxide
- Features: Precision ground top surface



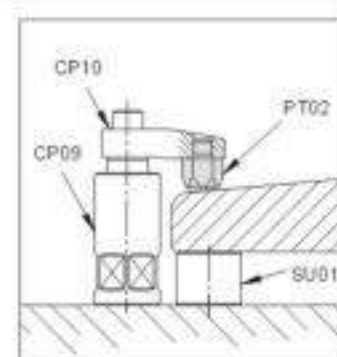
Unit: mm

| Order No. | Model     | A  | B  | C   | D  | E  | kg    |
|-----------|-----------|----|----|-----|----|----|-------|
| 65946-01  | PT01-0814 | 25 | 12 | M8  | 8  | 14 | 0.015 |
| 65946-02  | PT01-1017 | 30 | 16 | M10 | 10 | 17 | 0.025 |
| 65946-03  | PT01-1222 | 35 | 22 | M12 | 12 | 22 | 0.070 |
| 65946-04  | PT01-1627 | 42 | 26 | M16 | 14 | 27 | 0.140 |
| 65946-05  | PT01-2036 | 55 | 27 | M20 | 14 | 36 | 0.28  |
| 65946-06  | PT01-2436 | 65 | 32 | M24 | 18 | 36 | 0.56  |
| 65946-07  | PT01-3046 | 80 | 35 | M30 | 21 | 46 | 0.88  |

## 65948 PT02 Serrated Ball End Bolt



- Material: S45C (Bolt), SUJ2 (Ball)
- Hardened HRC 28°~32°(Bolt) / 62°(Ball)
- Surface Finish: Black Oxide
- Features: Serrated surface ideal for rough surface.



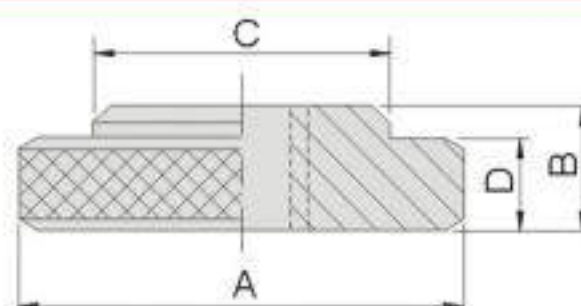
Unit: mm

| Order No. | Model     | A  | B  | C   | D  | E  | kg    |
|-----------|-----------|----|----|-----|----|----|-------|
| 65948-01  | PT02-0814 | 25 | 12 | M8  | 8  | 14 | 0.015 |
| 65948-02  | PT02-1017 | 30 | 16 | M10 | 10 | 17 | 0.025 |
| 65948-03  | PT02-1222 | 35 | 22 | M12 | 12 | 22 | 0.070 |
| 65948-04  | PT02-1627 | 42 | 26 | M16 | 14 | 27 | 0.140 |
| 65948-05  | PT02-2036 | 55 | 27 | M20 | 14 | 36 | 0.28  |
| 65948-06  | PT02-2436 | 65 | 32 | M24 | 18 | 36 | 0.56  |
| 65948-07  | PT02-3046 | 80 | 35 | M30 | 21 | 46 | 0.88  |

## 65950 PT03 Knurled Nut



- Material: S45C
- Hardened HRC 30°~35°
- Surface Finish: Black Oxide
- Features: For fixing on screw rod to clamp workpieces.



Unit: mm

| Order No. | Model     | A  | B  | C  | D  | E   | kg    |
|-----------|-----------|----|----|----|----|-----|-------|
| 65950-01  | PT03-0820 | 20 | 8  | 16 | 6  | M8  | 0.015 |
| 65950-02  | PT03-1025 | 25 | 10 | 20 | 8  | M10 | 0.030 |
| 65950-03  | PT03-1228 | 28 | 12 | 24 | 10 | M12 | 0.040 |
| 65950-04  | PT03-1630 | 30 | 12 | 25 | 10 | M16 | 0.045 |

# Machine Tool Fixture

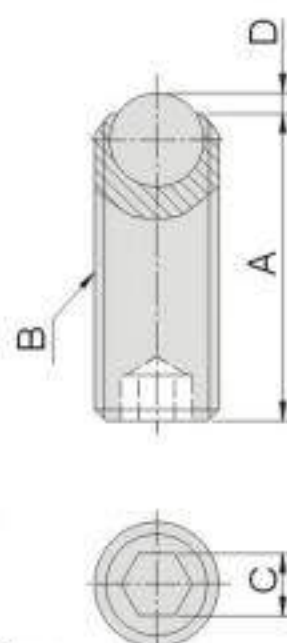
**65952-56**

**PT16**

**Swivel Clamping Screw**

**65952**

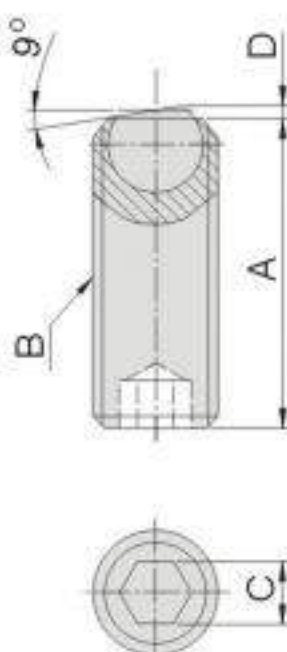
ROUND END



- Material: SCM21 (Body), SUJ2(Ball)
- Hardened HRC 32°~38°(Body) / 62°(Ball)
- Surface Finish: Black Oxide
- Features: Tip contact, supporting or clamping.

**65954**

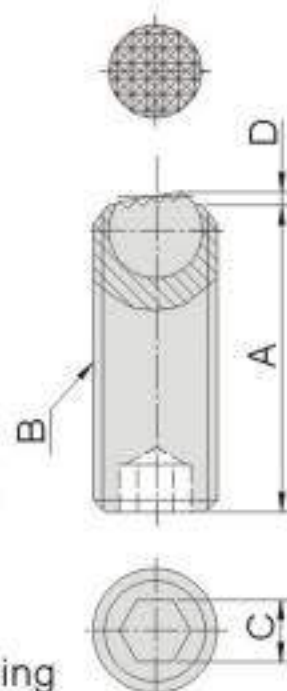
FLAT END



- Material: SCM21 (Body), SUJ2(Ball)
- Hardened HRC 32°~38°(Body) / 62°(Ball)
- Surface Finish: Black Oxide
- Features: Tip contact, supporting or clamping.

**65956**

SERRATED END



- Material: SCM21 (Body), SUJ2(Ball)
- Hardened HRC 32°~38°(Body) / 62°(Ball)
- Surface Finish: Black Oxide
- Features: Tip contact, supporting or clamping.

Unit: mm

| Order No. | Model      | A  | B   | C | D   | kg     |
|-----------|------------|----|-----|---|-----|--------|
| 65952-01  | PT16A-0615 | 13 | M6  | 3 | 1.4 | 0.0024 |
| 65952-02  | PT16A-0625 | 23 | M6  | 3 | 1.4 | 0.0038 |
| 65952-03  | PT16A-0812 | 10 | M8  | 4 | 1.9 | 0.0032 |
| 65952-04  | PT16A-0820 | 18 | M8  | 4 | 1.9 | 0.0058 |
| 65952-05  | PT16A-0830 | 28 | M8  | 4 | 1.9 | 0.0090 |
| 65952-06  | PT16A-1015 | 13 | M10 | 5 | 2.4 | 0.0067 |
| 65952-07  | PT16A-1025 | 23 | M10 | 5 | 2.4 | 0.0112 |
| 65952-08  | PT16A-1035 | 33 | M10 | 5 | 2.4 | 0.0162 |
| 65952-09  | PT16A-1220 | 18 | M12 | 6 | 2.9 | 0.0125 |
| 65952-10  | PT16A-1230 | 28 | M12 | 6 | 2.9 | 0.0200 |
| 65952-11  | PT16A-1240 | 38 | M12 | 6 | 2.9 | 0.0300 |
| 65952-12  | PT16A-1250 | 48 | M12 | 6 | 2.9 | 0.0400 |
| 65952-13  | PT16A-1625 | 23 | M16 | 8 | 4.0 | 0.0280 |
| 65952-14  | PT16A-1635 | 33 | M16 | 8 | 4.0 | 0.0400 |
| 65952-15  | PT16A-1645 | 43 | M16 | 8 | 4.0 | 0.0450 |
| 65952-16  | PT16A-1655 | 53 | M16 | 8 | 4.0 | 0.0550 |
| 65952-17  | PT16A-1665 | 63 | M16 | 8 | 4.0 | 0.0650 |

Unit: mm

| Order No. | Model      | A  | B   | C | D   | kg     |
|-----------|------------|----|-----|---|-----|--------|
| 65954-01  | PT16B-0615 | 13 | M6  | 3 | 0.5 | 0.0024 |
| 65954-02  | PT16B-0625 | 23 | M6  | 3 | 0.5 | 0.0038 |
| 65954-03  | PT16B-0812 | 10 | M8  | 4 | 0.6 | 0.0032 |
| 65954-04  | PT16B-0820 | 18 | M8  | 4 | 0.6 | 0.0058 |
| 65954-05  | PT16B-0830 | 28 | M8  | 4 | 0.6 | 0.0090 |
| 65954-06  | PT16B-1015 | 13 | M10 | 5 | 0.7 | 0.0067 |
| 65954-07  | PT16B-1025 | 23 | M10 | 5 | 0.7 | 0.0112 |
| 65954-08  | PT16B-1035 | 33 | M10 | 5 | 0.7 | 0.0162 |
| 65954-09  | PT16B-1220 | 18 | M12 | 6 | 0.9 | 0.0125 |
| 65954-10  | PT16B-1230 | 28 | M12 | 6 | 0.9 | 0.0200 |
| 65954-11  | PT16B-1240 | 38 | M12 | 6 | 0.9 | 0.0300 |
| 65954-12  | PT16B-1250 | 48 | M12 | 6 | 0.9 | 0.0400 |
| 65954-13  | PT16B-1625 | 23 | M16 | 8 | 1   | 0.0280 |
| 65954-14  | PT16B-1635 | 33 | M16 | 8 | 1   | 0.0400 |
| 65954-15  | PT16B-1645 | 43 | M16 | 8 | 1   | 0.0450 |
| 65954-16  | PT16B-1655 | 53 | M16 | 8 | 1   | 0.0550 |
| 65954-17  | PT16B-1665 | 63 | M16 | 8 | 1   | 0.0650 |

Unit: mm

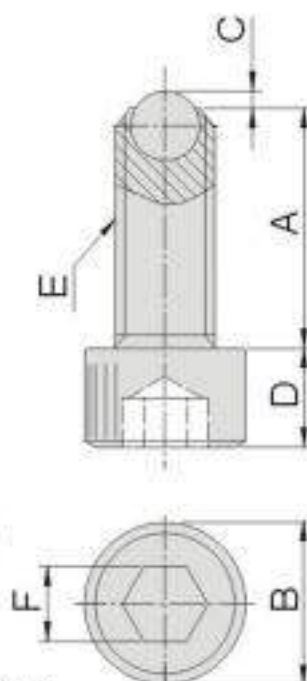
| Order No. | Model      | A  | B   | C | D   | kg     |
|-----------|------------|----|-----|---|-----|--------|
| 65956-01  | PT16C-0615 | 13 | M6  | 3 | 0.5 | 0.0024 |
| 65956-02  | PT16C-0625 | 23 | M6  | 3 | 0.5 | 0.0038 |
| 65956-03  | PT16C-0812 | 10 | M8  | 4 | 0.6 | 0.0032 |
| 65956-04  | PT16C-0820 | 18 | M8  | 4 | 0.6 | 0.0058 |
| 65956-05  | PT16C-0830 | 28 | M8  | 4 | 0.6 | 0.0090 |
| 65956-06  | PT16C-1015 | 13 | M10 | 5 | 0.7 | 0.0067 |
| 65956-07  | PT16C-1025 | 23 | M10 | 5 | 0.7 | 0.0112 |
| 65956-08  | PT16C-1035 | 33 | M10 | 5 | 0.7 | 0.0162 |
| 65956-09  | PT16C-1220 | 18 | M12 | 6 | 0.9 | 0.0125 |
| 65956-10  | PT16C-1230 | 28 | M12 | 6 | 0.9 | 0.0200 |
| 65956-11  | PT16C-1240 | 38 | M12 | 6 | 0.9 | 0.0300 |
| 65956-12  | PT16C-1250 | 48 | M12 | 6 | 0.9 | 0.0400 |
| 65956-13  | PT16C-1625 | 23 | M16 | 8 | 1   | 0.0280 |
| 65956-14  | PT16C-1635 | 33 | M16 | 8 | 1   | 0.0400 |
| 65956-15  | PT16C-1645 | 43 | M16 | 8 | 1   | 0.0450 |
| 65956-16  | PT16C-1655 | 53 | M16 | 8 | 1   | 0.0550 |
| 65956-17  | PT16C-1665 | 63 | M16 | 8 | 1   | 0.0650 |

**65958-62**
**PT17**
**Swivel Shoulder Clamping Screw**
**65958**

ROUND END



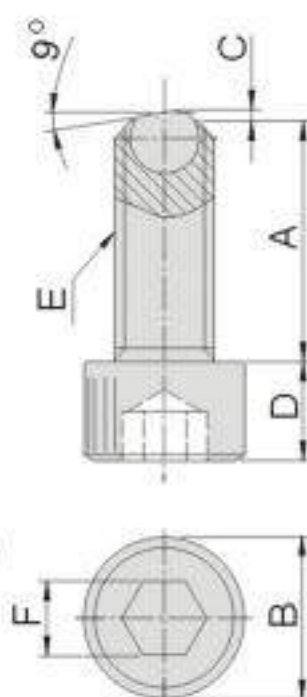
- Material: SCM21 (Body), SUJ2(Ball)
- Hardened HRC 32°~38°(Body) / 60°(Ball)
- Surface Finish: Black Oxide
- Features: Tip contact, supporting or clamping fixtures.


**65960**

FLAT END



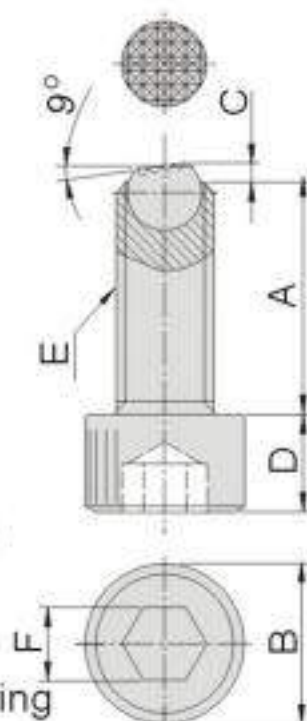
- Material: SCM21 (Body), SUJ2(Ball)
- Hardened HRC 32°~38°(Body) / 60°(Ball)
- Surface Finish: Black Oxide
- Features: Tip contact, supporting or clamping fixtures.


**65962**

SERRATED END



- Material: SCM21 (Body), SUJ2(Ball)
- Hardened HRC 32°~38°(Body) / 60°(Ball)
- Surface Finish: Black Oxide
- Features: Tip contact, supporting or clamping fixtures.



Unit: mm

| Order No. | Model      | A  | B  | C   | D  | E   | F  | kg     |
|-----------|------------|----|----|-----|----|-----|----|--------|
| 65958-01  | PT17A-0615 | 14 | 10 | 1.4 | 6  | M6  | 5  | 0.0053 |
| 65958-02  | PT17A-0625 | 23 | 10 | 1.4 | 6  | M6  | 5  | 0.0074 |
| 65958-03  | PT17A-0635 | 33 | 10 | 1.4 | 6  | M6  | 5  | 0.0095 |
| 65958-04  | PT17A-0820 | 18 | 13 | 1.9 | 8  | M8  | 6  | 0.0135 |
| 65958-05  | PT17A-0830 | 28 | 13 | 1.9 | 8  | M8  | 6  | 0.0200 |
| 65958-06  | PT17A-0840 | 38 | 13 | 1.9 | 8  | M8  | 6  | 0.0240 |
| 65958-07  | PT17A-1025 | 23 | 16 | 2.4 | 10 | M10 | 8  | 0.0260 |
| 65958-08  | PT17A-1040 | 38 | 16 | 2.4 | 10 | M10 | 8  | 0.0340 |
| 65958-09  | PT17A-1060 | 58 | 16 | 2.4 | 10 | M10 | 8  | 0.0460 |
| 65958-10  | PT17A-1230 | 28 | 18 | 2.9 | 12 | M12 | 10 | 0.0400 |
| 65958-11  | PT17A-1245 | 43 | 18 | 2.9 | 12 | M12 | 10 | 0.0500 |
| 65958-12  | PT17A-1265 | 63 | 18 | 2.9 | 12 | M12 | 10 | 0.0700 |
| 65958-13  | PT17A-1280 | 78 | 18 | 2.9 | 12 | M12 | 10 | 0.0830 |
| 65958-14  | PT17A-1640 | 38 | 24 | 4.0 | 16 | M16 | 14 | 0.0900 |
| 65958-15  | PT17A-1650 | 48 | 24 | 4.0 | 16 | M16 | 14 | 0.1100 |
| 65958-16  | PT17A-1665 | 63 | 24 | 4.0 | 16 | M16 | 14 | 0.1300 |
| 65958-17  | PT17A-1690 | 88 | 24 | 4.0 | 16 | M16 | 14 | 0.1700 |

Unit: mm

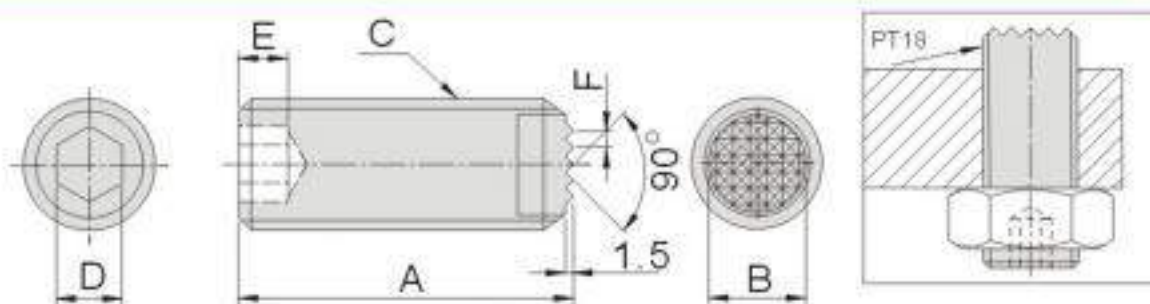
| Order No. | Model      | A  | B  | C   | D  | E   | F  | kg     |
|-----------|------------|----|----|-----|----|-----|----|--------|
| 65960-01  | PT17B-0615 | 14 | 10 | 0.5 | 6  | M6  | 5  | 0.0053 |
| 65960-02  | PT17B-0625 | 23 | 10 | 0.5 | 6  | M6  | 5  | 0.0074 |
| 65960-03  | PT17B-0635 | 33 | 10 | 0.5 | 6  | M6  | 5  | 0.0095 |
| 65960-04  | PT17B-0820 | 18 | 13 | 0.6 | 8  | M8  | 6  | 0.0135 |
| 65960-05  | PT17B-0830 | 28 | 13 | 0.6 | 8  | M8  | 6  | 0.0200 |
| 65960-06  | PT17B-0840 | 38 | 13 | 0.6 | 8  | M8  | 6  | 0.0240 |
| 65960-07  | PT17B-1025 | 23 | 16 | 0.7 | 10 | M10 | 8  | 0.0260 |
| 65960-08  | PT17B-1040 | 38 | 16 | 0.7 | 10 | M10 | 8  | 0.0340 |
| 65960-09  | PT17B-1060 | 58 | 16 | 0.7 | 10 | M10 | 8  | 0.0460 |
| 65960-10  | PT17B-1230 | 28 | 18 | 0.9 | 12 | M12 | 10 | 0.0400 |
| 65960-11  | PT17B-1245 | 43 | 18 | 0.9 | 12 | M12 | 10 | 0.0500 |
| 65960-12  | PT17B-1265 | 63 | 18 | 0.9 | 12 | M12 | 10 | 0.0700 |
| 65960-13  | PT17B-1280 | 78 | 18 | 0.9 | 12 | M12 | 10 | 0.0830 |
| 65960-14  | PT17B-1640 | 38 | 24 | 1   | 16 | M16 | 14 | 0.0900 |
| 65960-15  | PT17B-1650 | 48 | 24 | 1   | 16 | M16 | 14 | 0.1100 |
| 65960-16  | PT17B-1665 | 63 | 24 | 1   | 16 | M16 | 14 | 0.1300 |
| 65960-17  | PT17B-1690 | 88 | 24 | 1   | 16 | M16 | 14 | 0.1700 |

Unit: mm

| Order No. | Model      | A  | B  | C   | D  | E   | F  | kg     |
|-----------|------------|----|----|-----|----|-----|----|--------|
| 65962-01  | PT17C-0615 | 14 | 10 | 0.5 | 6  | M6  | 5  | 0.0053 |
| 65962-02  | PT17C-0625 | 23 | 10 | 0.5 | 6  | M6  | 5  | 0.0074 |
| 65962-03  | PT17C-0635 | 33 | 10 | 0.5 | 6  | M6  | 5  | 0.0095 |
| 65962-04  | PT17C-0820 | 18 | 13 | 0.6 | 8  | M8  | 6  | 0.0135 |
| 65962-05  | PT17C-0830 | 28 | 13 | 0.6 | 8  | M8  | 6  | 0.0200 |
| 65962-06  | PT17C-0840 | 38 | 13 | 0.6 | 8  | M8  | 6  | 0.0240 |
| 65962-07  | PT17C-1025 | 23 | 16 | 0.7 | 10 | M10 | 8  | 0.0260 |
| 65962-08  | PT17C-1040 | 38 | 16 | 0.7 | 10 | M10 | 8  | 0.0340 |
| 65962-09  | PT17C-1060 | 58 | 16 | 0.7 | 10 | M10 | 8  | 0.0460 |
| 65962-10  | PT17C-1230 | 28 | 18 | 0.9 | 12 | M12 | 10 | 0.0400 |
| 65962-11  | PT17C-1245 | 43 | 18 | 0.9 | 12 | M12 | 10 | 0.0500 |
| 65962-12  | PT17C-1265 | 63 | 18 | 0.9 | 12 | M12 | 10 | 0.0700 |
| 65962-13  | PT17C-1280 | 78 | 18 | 0.9 | 12 | M12 | 10 | 0.0830 |
| 65962-14  | PT17C-1640 | 38 | 24 | 1   | 16 | M16 | 14 | 0.0900 |
| 65962-15  | PT17C-1650 | 48 | 24 | 1   | 16 | M16 | 14 | 0.1100 |
| 65962-16  | PT17C-1665 | 63 | 24 | 1   | 16 | M16 | 14 | 0.1300 |
| 65962-17  | PT17C-1690 | 88 | 24 | 1   | 16 | M16 | 14 | 0.1700 |

# Machine Tool Fixture

## 65964 PT18 Gripper Screw

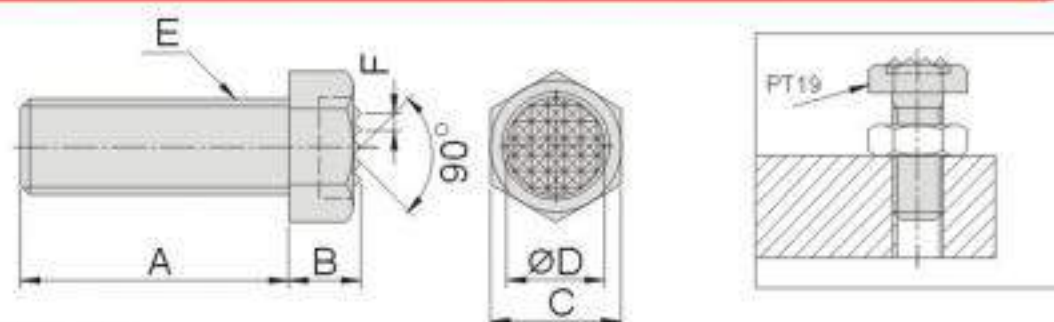


Unit: mm

| Order No. | Model     | A  | B    | C   | D  | E | F   | kg    |
|-----------|-----------|----|------|-----|----|---|-----|-------|
| 65964-01  | PT18-1025 | 25 | 6.5  | M10 | 5  | 4 | 2.3 | 0.015 |
| 65964-02  | PT18-1050 | 50 | 6.5  | M10 | 5  | 5 | 2.3 | 0.030 |
| 65964-03  | PT18-1225 | 25 | 8    | M12 | 6  | 5 | 2.3 | 0.022 |
| 65964-04  | PT18-1250 | 50 | 8    | M12 | 6  | 5 | 2.3 | 0.045 |
| 65964-05  | PT18-1625 | 25 | 11.5 | M16 | 8  | 6 | 3   | 0.038 |
| 65964-06  | PT18-1650 | 50 | 11.5 | M16 | 8  | 6 | 3   | 0.078 |
| 65964-07  | PT18-2025 | 25 | 13   | M20 | 10 | 8 | 3   | 0.058 |
| 65964-08  | PT18-2050 | 50 | 13   | M20 | 10 | 8 | 3   | 0.120 |

- Material: SKH9
- Hardened HRC 60°
- Surface Finish: Black Oxide
- Features: Supporting or clamping casting workpieces, great grip.

## 65966 PT19 Gripper Screw

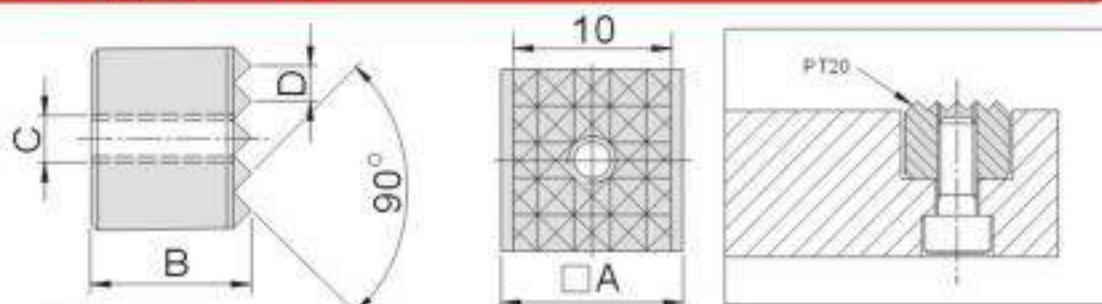


Unit: mm

| Order No. | Model       | A  | B    | C  | D    | E   | F   | kg    |
|-----------|-------------|----|------|----|------|-----|-----|-------|
| 65966-01  | PT19-061025 | 25 | 6    | 10 | 7.9  | M6  | 2.3 | 0.008 |
| 65966-02  | PT19-081325 | 25 | 7.3  | 13 | 9.5  | M8  | 3   | 0.015 |
| 65966-03  | PT19-101725 | 25 | 7.3  | 17 | 12.7 | M10 | 3   | 0.030 |
| 65966-04  | PT19-101740 | 40 | 8.4  | 17 | 12.7 | M10 | 3   | 0.035 |
| 65966-05  | PT19-121925 | 25 | 9.5  | 19 | 15.9 | M12 | 3   | 0.035 |
| 65966-06  | PT19-121940 | 40 | 9.5  | 19 | 15.9 | M12 | 3   | 0.050 |
| 65966-07  | PT19-162435 | 35 | 12   | 24 | 19.1 | M16 | 3   | 0.085 |
| 65966-08  | PT19-162450 | 50 | 12   | 24 | 19.1 | M16 | 3   | 0.100 |
| 65966-09  | PT19-203040 | 40 | 14.5 | 30 | 25.4 | M20 | 3   | 0.160 |
| 65966-10  | PT19-203060 | 60 | 14.5 | 30 | 25.4 | M20 | 3   | 0.205 |

- Material: SKH9
- Hardened HRC 60°
- Surface Finish: Black Oxide
- Features: Supporting or clamping casting workpieces, great grip.

## 65968 PT20 Gripper Pad (Square)



Unit: mm

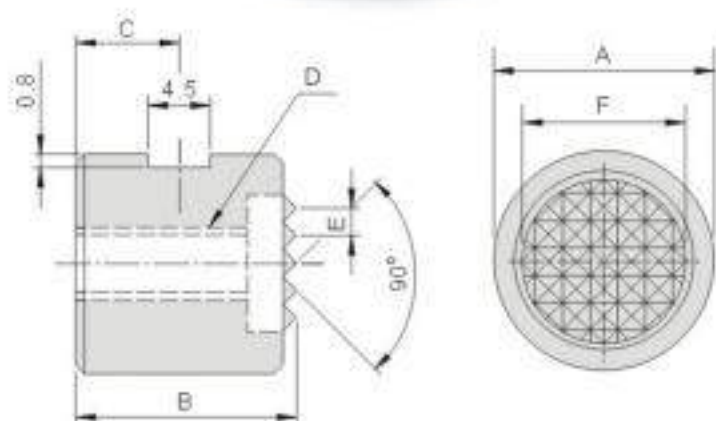
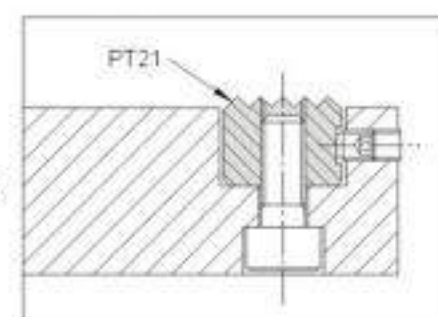
| Order No. | Model     | A  | B  | C  | D   | kg    |
|-----------|-----------|----|----|----|-----|-------|
| 65968-01  | PT20-1010 | 10 | 10 | M5 | 2.3 | 0.008 |
| 65968-02  | PT20-1210 | 12 | 10 | M6 | 3   | 0.010 |
| 65968-03  | PT20-2010 | 20 | 10 | M6 | 3   | 0.030 |
| 65968-04  | PT20-2510 | 25 | 10 | M6 | 3   | 0.043 |

- Material: SKH9
- Hardened HRC 60°
- Surface Finish: Black Oxide
- Features: Supporting or clamping casting workpieces, great grip.

## 65970 PT21 Gripper Pad (Round)



- Material: SKH9
- Hardened HRC 60°
- Surface Finish: Black Oxide
- Features: Supporting or clamping casting workpieces, great grip.



Unit: mm

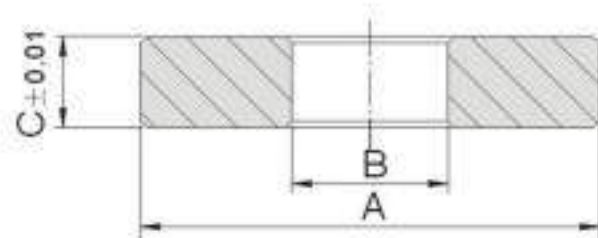
| Order No. | Model     | A  | B  | C   | D  | E   | F    | kg    |
|-----------|-----------|----|----|-----|----|-----|------|-------|
| 65970-01  | PT21-1010 | 10 | 10 | 3.4 | M5 | 2.3 | 8    | 0.005 |
| 65970-02  | PT21-1212 | 12 | 12 | 4   | M6 | 3   | 9.6  | 0.008 |
| 65970-03  | PT21-1612 | 16 | 12 | 4   | M6 | 3   | 13   | 0.016 |
| 65970-04  | PT21-2012 | 20 | 12 | 4   | M6 | 3   | 16.3 | 0.025 |
| 65970-05  | PT21-2512 | 25 | 12 | 4   | M6 | 3   | 19.5 | 0.040 |

## 65972 PT22 Spacer



- Material: SKH9
- Hardened HRC 40°
- Features: Applied with fixture for extension or height.

Unit: mm



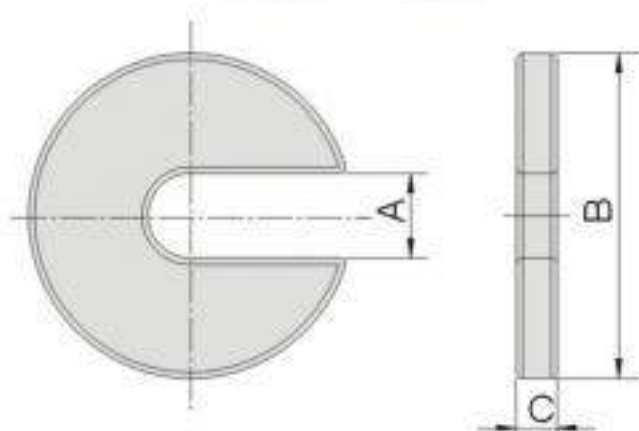
| Order No. | Model     | A  | B  | C  | kg    |
|-----------|-----------|----|----|----|-------|
| 65972-01  | PT22-1303 | 40 | 13 | 3  | 0.030 |
| 65972-02  | PT22-1305 | 40 | 13 | 5  | 0.045 |
| 65972-03  | PT22-1310 | 40 | 13 | 10 | 0.100 |
| 65972-04  | PT22-1330 | 40 | 13 | 30 | 0.300 |
| 65972-05  | PT22-1703 | 50 | 17 | 3  | 0.035 |
| 65972-06  | PT22-1705 | 50 | 17 | 5  | 0.070 |
| 65972-07  | PT22-1710 | 50 | 17 | 10 | 0.350 |
| 65972-08  | PT22-1730 | 50 | 17 | 30 | 0.950 |

## 65974 PT23 "C" Washer



- Material: SKH9
- Hardened HRC 40°
- Surface Finish: Black Oxide
- Features: Washer that slides in and out of position for clean loading.

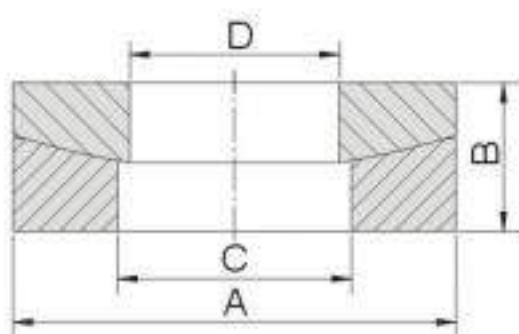
Unit: mm



| Order No. | Model     | A  | B  | C  | kg    |
|-----------|-----------|----|----|----|-------|
| 65974-01  | PT23-0835 | 9  | 35 | 8  | 0.065 |
| 65974-02  | PT23-1040 | 11 | 40 | 8  | 0.065 |
| 65974-03  | PT23-1255 | 13 | 55 | 10 | 0.150 |
| 65974-04  | PT23-1665 | 17 | 65 | 10 | 0.200 |
| 65974-05  | PT23-2080 | 21 | 80 | 10 | 0.300 |

# Machine Tool Fixture

## 65976 PT25 Spherical Washer

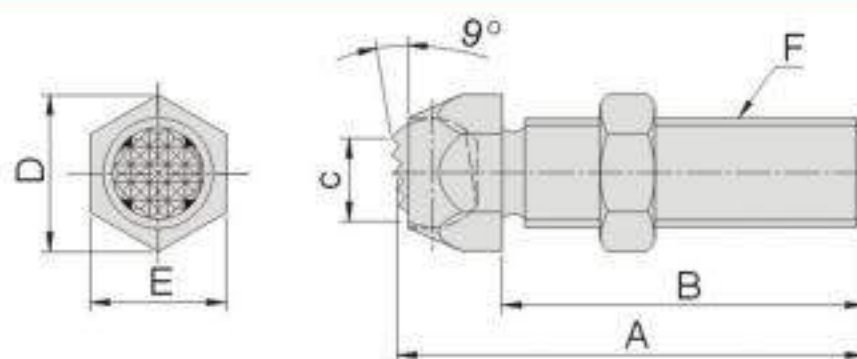


- Material: S45C
- Hardened HRC 38°
- Surface Finish: Black Oxide
- Features: Two-piece washer that compensates whenever a stub and clamping surface are not exactly perpendicular.

Unit: mm

| Order No. | Model     | A  | B    | C  | D  | R  | kg    |
|-----------|-----------|----|------|----|----|----|-------|
| 65976-01  | PT25-0819 | 19 | 6.2  | 10 | 9  | 30 | 0.013 |
| 65976-02  | PT25-1022 | 22 | 8    | 12 | 11 | 30 | 0.019 |
| 65976-03  | PT25-1226 | 26 | 7.5  | 15 | 13 | 32 | 0.024 |
| 65976-04  | PT25-1428 | 28 | 9    | 16 | 15 | 40 | 0.033 |
| 65976-05  | PT25-1632 | 32 | 9    | 19 | 17 | 40 | 0.058 |
| 65976-06  | PT25-1835 | 35 | 10   | 20 | 19 | 40 | 0.05  |
| 65976-07  | PT25-2040 | 40 | 11.8 | 23 | 21 | 48 | 0.089 |
| 65976-08  | PT25-2245 | 45 | 12.5 | 26 | 24 | 70 | 0.11  |
| 65976-09  | PT25-2450 | 50 | 13.5 | 28 | 27 | 70 | 0.15  |

## 65978 PT35 Swiveling Jack Screw with Serrated End

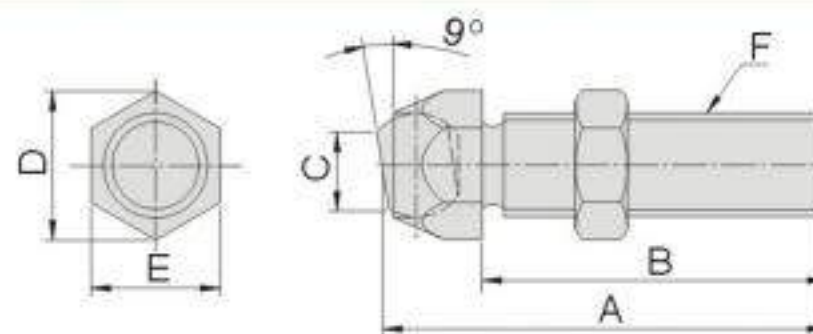


Unit: mm

| Order No. | Model     | A  | B  | C  | D    | E  | F   | kg    |
|-----------|-----------|----|----|----|------|----|-----|-------|
| 65978-01  | PT35-0814 | 36 | 25 | 7  | 16   | 14 | M8  | 0.025 |
| 65978-02  | PT35-1017 | 45 | 30 | 8  | 19.6 | 17 | M10 | 0.055 |
| 65978-03  | PT35-1217 | 50 | 35 | 10 | 19.6 | 17 | M12 | 0.055 |
| 65978-04  | PT35-1624 | 60 | 40 | 12 | 27.7 | 24 | M16 | 0.140 |
| 65978-05  | PT35-2036 | 87 | 60 | 14 | 41.6 | 36 | M20 | 0.330 |

- Material: S45C (Body), SUJ2 (Ball)
- Hardened HRC 35°(Body), 62°(Ball)

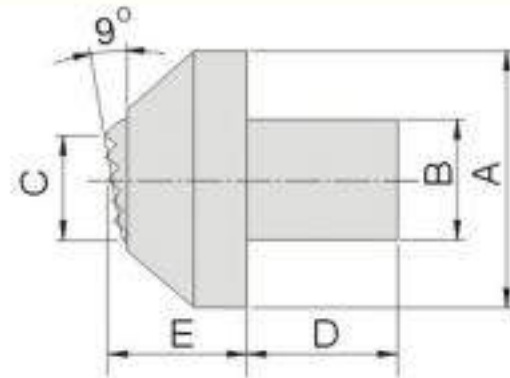
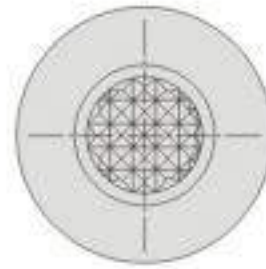
## 65980 PT36 Swiveling Jack Screw with Flat End



Unit: mm

| Order No. | Model     | A  | B  | C  | D    | E  | F   | kg    |
|-----------|-----------|----|----|----|------|----|-----|-------|
| 65980-01  | PT36-0814 | 36 | 25 | 7  | 16   | 14 | M8  | 0.025 |
| 65980-02  | PT36-1017 | 45 | 30 | 8  | 19.6 | 17 | M10 | 0.055 |
| 65980-03  | PT36-1217 | 50 | 35 | 10 | 19.6 | 17 | M12 | 0.055 |
| 65980-04  | PT36-1624 | 60 | 40 | 12 | 27.7 | 24 | M16 | 0.140 |
| 65980-05  | PT36-2036 | 87 | 60 | 14 | 41.6 | 36 | M20 | 0.330 |

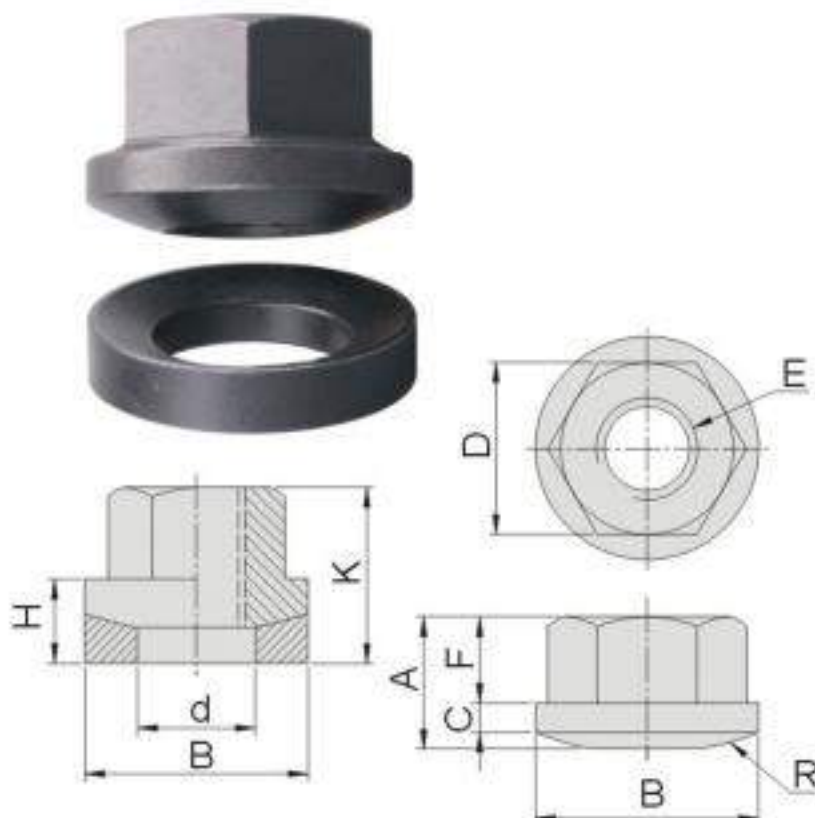
- Material: S45C (Body), SUJ2 (Ball)
- Hardened HRC 35°(Body), 62°(Ball)

**65982**
**PT37**
**Swivel Rest Tip with Serrated End**


Unit: mm

- Material: S45C (Body), SUJ2 (Ball)
- Hardened HRC 35°(Body), 62°(Ball)

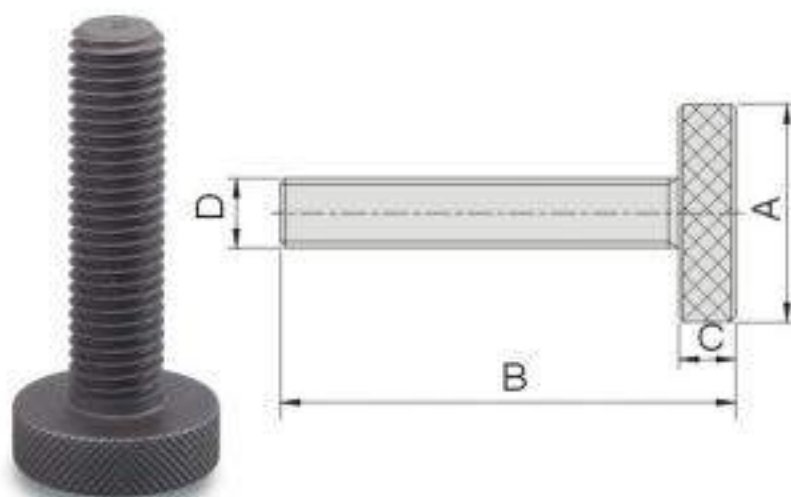
| Order No. | Model     | A  | B  | C  | D  | E    | kg    |
|-----------|-----------|----|----|----|----|------|-------|
| 65982-01  | PT37-1116 | 25 | 11 | 10 | 10 | 14.3 | 0.030 |
| 65982-02  | PT37-1118 | 30 | 11 | 12 | 10 | 18   | 0.040 |

**65984**
**PT41**
**Swivel Flange Nuts**


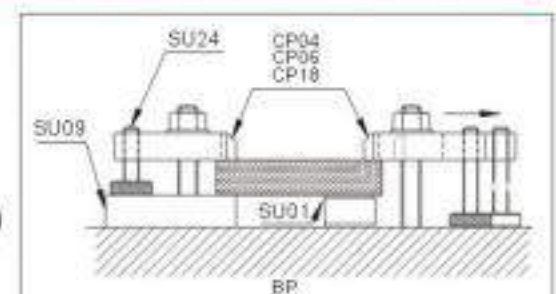
- Material: S45C
- Hardened HRC -32°~35°(Ball)

Unit: mm

| Order No. | Model     | A    | B  | C   | D  | d  | E   | F    | H  | K    | R  | kg    |
|-----------|-----------|------|----|-----|----|----|-----|------|----|------|----|-------|
| 65984-01  | PT41-0813 | 12   | 19 | 3   | 13 | 10 | M8  | 7.8  | 7  | 15   | 30 | 0.021 |
| 65984-02  | PT41-1017 | 13   | 22 | 3   | 17 | 12 | M10 | 8.4  | 8  | 16.5 | 30 | 0.032 |
| 65984-03  | PT41-1219 | 14.3 | 26 | 4   | 19 | 15 | M12 | 9    | 10 | 19   | 32 | 0.046 |
| 65984-04  | PT41-1422 | 17.5 | 28 | 4.5 | 22 | 16 | M14 | 11.4 | 11 | 22   | 40 | 0.066 |
| 65984-05  | PT41-1624 | 20   | 32 | 4.5 | 24 | 19 | M16 | 12.8 | 11 | 23.8 | 40 | 0.103 |
| 65984-06  | PT41-1827 | 20.6 | 35 | 4.5 | 27 | 20 | M18 | 13.6 | 12 | 25.5 | 40 | 0.106 |
| 65984-07  | PT41-2030 | 25   | 40 | 6   | 30 | 23 | M20 | 16.6 | 14 | 31   | 48 | 0.183 |
| 65984-08  | PT41-2232 | 25.4 | 45 | 6   | 32 | 26 | M22 | 16.9 | 15 | 31.5 | 70 | 0.21  |
| 65984-09  | PT41-2436 | 28   | 50 | 6   | 36 | 28 | M24 | 18.7 | 15 | 33.5 | 70 | 0.27  |

**65986**
**SU24**
**Knurled Adjusting Screw**


- Material: S45C
- Hardened HRC -32°~35°(Ball)
- Surface Finish: Black Oxide

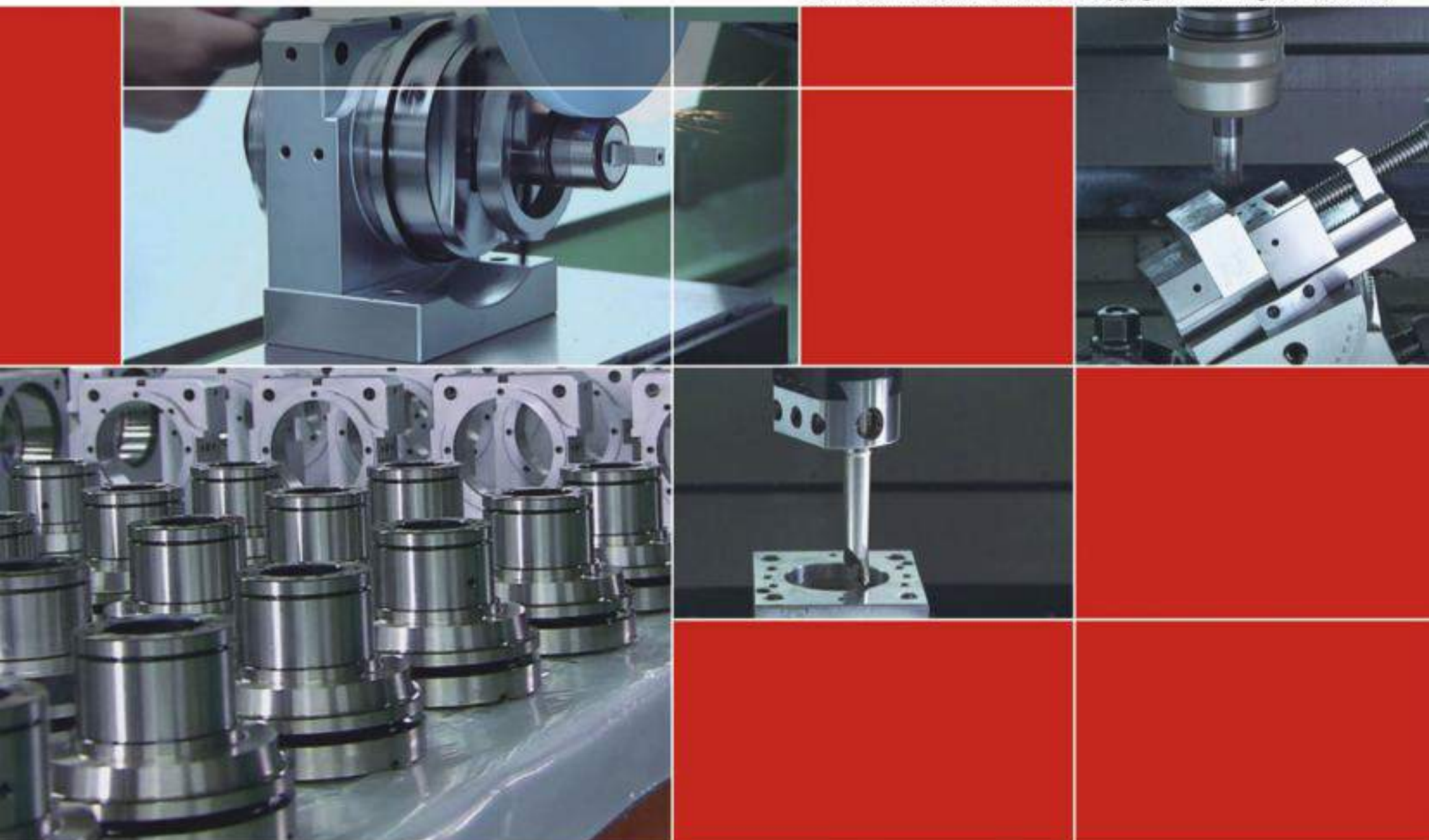


Unit: mm

| Order No. | Model      | A  | B   | C  | D   | kg   |
|-----------|------------|----|-----|----|-----|------|
| 65986-01  | SU24-12060 | 28 | 60  | 8  | M12 | 0.08 |
| 65986-02  | SU24-14065 | 30 | 65  | 9  | M14 | 0.10 |
| 65986-03  | SU24-16070 | 30 | 70  | 10 | M16 | 0.13 |
| 65986-04  | SU24-18080 | 36 | 80  | 12 | M18 | 0.21 |
| 65986-05  | SU24-20130 | 50 | 130 | 16 | M20 | 0.47 |



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