



precision vise, dividing head, shank, boring knife, Chuck ... and so on, for CNC Machining Center, lathes, grinders, milling machines, machinery parts

CHIN CHAO INDUSTRIAL CO.,LTD

CHIN CHAO

Precision Machine Tools Production

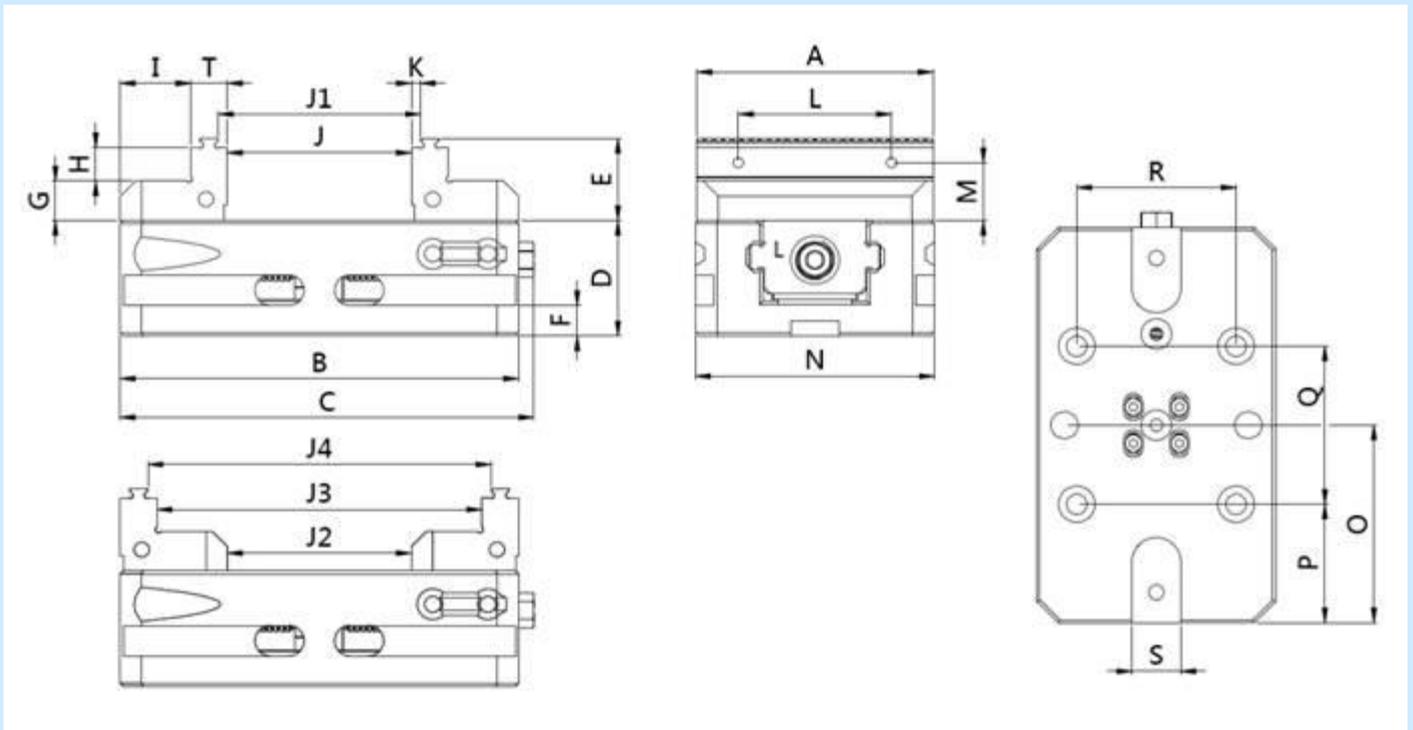
www.chin-chao.com.tw
5-AXIS VISE PRODUCTS

UNIVERSAL
POWER VISE
MPPV-16



5-AXIS PRECISION VISE FAV-77

PRODUCTS INFORMATION



(unit:mm)

MODEL	A	B	C	D	E	F	G	H
FAV-77	77	130	135	38	27	10	13	11
I	T	K	L	M	N	O	P	Q
23	12	3	135	19	78	65	39	52
R	S	J	J1	J2	J3	J4	Clamping force	N.W. KG
52	16	60	66	60	106	112	kgf	4kgs

Standard accessories :

- 1.Ratchet handle x1 pc
- 2.Guide key x2 pcs
3. Screw M6x12L x2 pcs
- 4.Vise locked block x4 pcs



Features :

∅ The accuracy of double clamping position is high for Self centering machine vise , (reaching 0.01mm) , It is suitable for 4-axis 、 5-axis CNC machine tools 、 indexing spacer or precision horizontal and vertical multi-milling and cutting machining centers.

∅ The vise body materials and parts are made by high alloy steel. It is adjusted and hardened heat by high quality procedures. It has high strength 、 high wear-resistance 、 high anti-tension features. The accuracy of datum plane and clamping side is high after precision multi-machining and grinding.

∅ The screw rod is adjusted and processed by high frequency , then processed by precision titanium plating. It increased the strength and wear-resistance substantially.

∅ The heat treatment of jaw plates is HRC45°. It can clamp hardness materials of below HRC40°.

∅ The design of jaw plates holes for moving block. It can change and increase the needing jaw plates fast to match the clamping demands for different machining work pieces. The clamping work pieces will be used more diverse and flexible.

∅ The vise has five clamping ways to suit for different machining ways and work piece size. To provide flexible clamping ways.

∅ The vise can be used by locked blocks and guide keys and connected joint plates or fixed on the working table directly.

∅ The height of vise body has fixed dimension. (D) , It can be used by many quantities of vises at the same time.

∅ The special design of vise has patent.

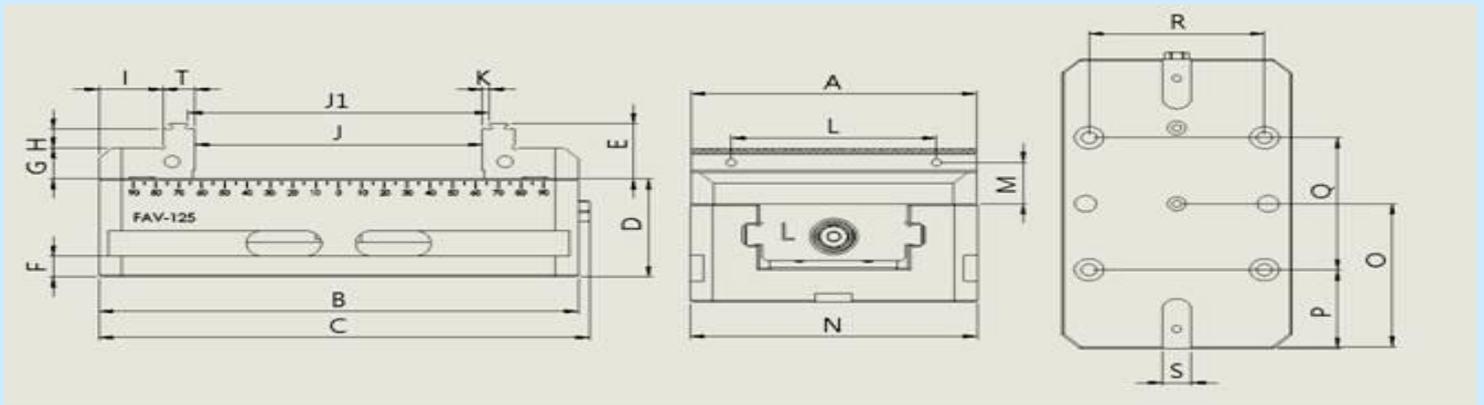


5-AXIS PRECISION VISE FAV-125

PRODUCTS INFORMATION



Installed with Pull bolts, and collocation with zero point system to use



(unit:mm)

MODEL	A	B	C	D	E	F	G	H
FAV-125	125	210	215	57	32	12	18	11
I	T	K	L	M	N	O	P	Q
28	14	3	90	24	126	104	57	96
R	S	J	J1	J2	J3	J4	Clamping force	N.W. KG
96	16	126	132	126	182	188	1,500kgf	11kgs

Standard accessories :

- 1.Ratchet handle x1 pc
- 2.Guide key x2 pcs
3. Screw M6x12L x2 pcs
- 4.Vise locked block x4 pcs



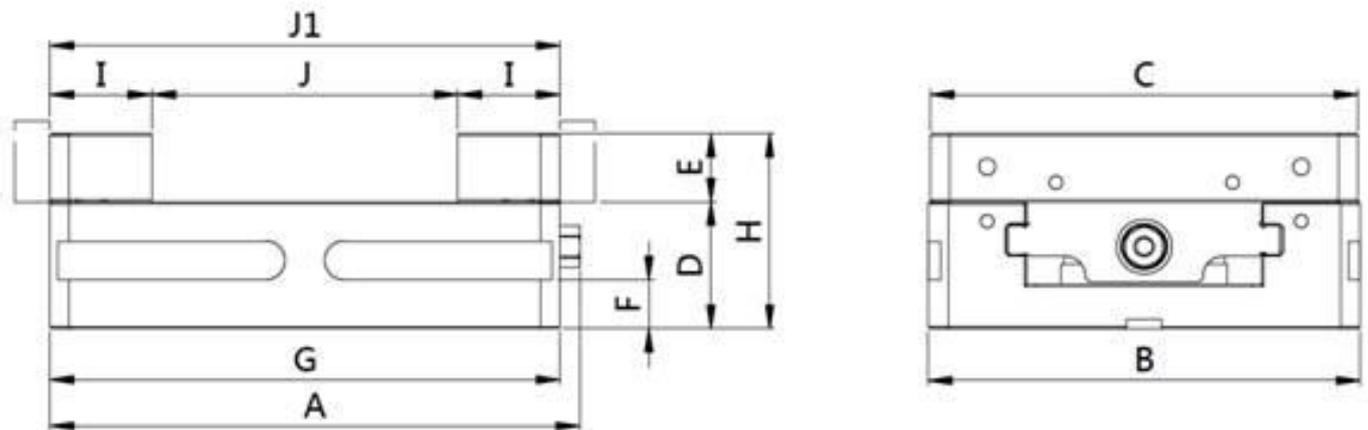
Features :

- The accuracy of double clamping position is high for Self centering machine vise , (reaching 0.01mm) , It is suitable for 4-axis 、 5-axis CNC machine tools 、 indexing spacer or precision horizontal and vertical multi-milling and cutting machining centers.
- The vise body materials and parts are made by high alloy steel. It is adjusted and hardened heat by high quality procedures. It has high strength 、 high wear-resistance 、 high anti-tension features. The accuracy of datum plane and clamping side is high after precision multi-machining and grinding.
- The screw rod is adjusted and processed by high frequency , then processed by precision titanium plating. It increased the strength and wear-resistance substantially.
- The heat treatment of jaw plates is HRC45°. It can clamp hardness materials of below HRC40°.
- The design of jaw plates holes for moving block. It can change and increase the needing jaw plates fast to match the clamping demands for different machining work pieces. The clamping work pieces will be used more diverse and flexible.
- The vise has five clamping ways to suit for different machining ways and work piece size. To provide flexible clamping ways.
- The vise can be used by locked blocks and guide keys and connected joint plates or fixed on the working table directly.
- The height of vise body has fixed dimension. (D) , It can be used by many quantities of vises at the same time.
- The special design of vise has patent.



BIG OPEN 5-AXIS PRECISION VISE FAV220/280

PRODUCTS INFORMATION



(單位:mm)

MODEL	A	B	C	D	E	F	G	H	I	J	J1	CLAMP FORCE	NW.
FAV-220	270	220	218	65	35	25	260	100	52	156	260	2,000kgf	32kgs
FAV-280	290	280	278	80	40	25	280	120	62	156	280	2,500kgf	50kgs

Standard accessories :

1. Ratchet handle x1 pc
2. Guide key x2 pcs
3. Screw M6x12L x2 pcs
4. Vise locked block x4 pcs



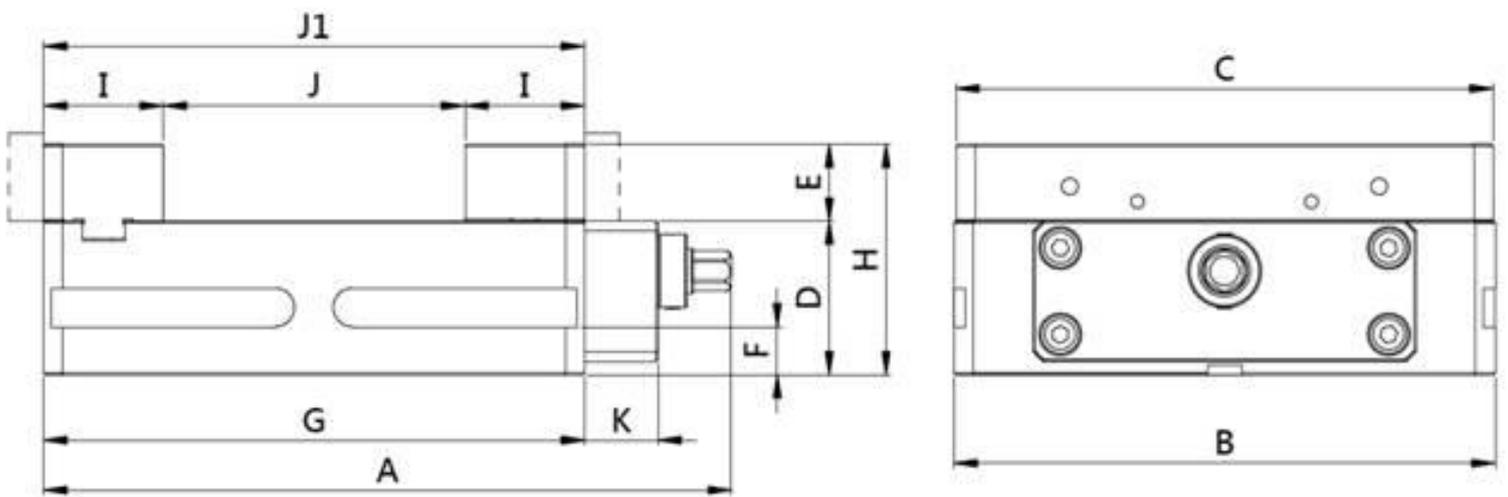
Features :

- ∅ The accuracy of double clamping position is high for Self centering machine vise · (reaching 0.015mm) · It is suitable for 4-axis · 5-axis CNC machine tools · indexing spacer or precision horizontal and vertical multi-milling and cutting machining centers.
- ∅ The design of big opening jaws can clamp bigger work pieces(It should fit big work table plate to be used.)
- ∅ The vise body materials and parts are made by high alloy steel. It is adjusted and hardened heat by high quality procedures. It has high strength · high wear-resistance · high anti-tension features. The accuracy of datum plane and clamping side is high after precision multi-machining and grinding.
- ∅ The screw rod is adjusted and processed by high frequency. It increased the strength and wear-resistance substantially.
- ∅ The heat treatment of jaw plates is HRC45°. It can clamp hardness materials of below HRC40°.
- ∅ The design of jaw plates holes for moving block. It can change and increase the needing jaw plates fast to match the clamping demands for different machining work pieces. The clamping work pieces will be used more diverse and flexible.
- ∅ The vise has two clamping ways(J~J1) to suit for different machining ways and work piece size. To provide flexible clamping ways.
- ∅ The vise can be used by locked blocks and guide keys and connected joint plates or fixed on the working table directly. (It's not necessary to be used by quick mode change systems). It can save purchasing cost.
- ∅ The height of vise body has fixed dimension. (D) · It can be used by many quantities of vises at the same time.
- ∅ The special design of vise has patent.



BIG OPEN 5- AXIS PRECISION VISE FFAV 280 (SINGLE WAY)

PRODUCTS INFORMATION



MODEL	A	B	C	D	E	F	G	H	I	J	J1	K	Clamping force	Net weight
FFAV-280	356	280	278	80	40	25	280	120	62	156	280	38	2,500kgf	57kgs

- The jaw plates can be customized

Standard accessories :

1. Ratchet handle x1 pc
2. Guide key x2 pcs
3. Screw M6x12Lx2 pcs
4. Vise locked block x4 pcs



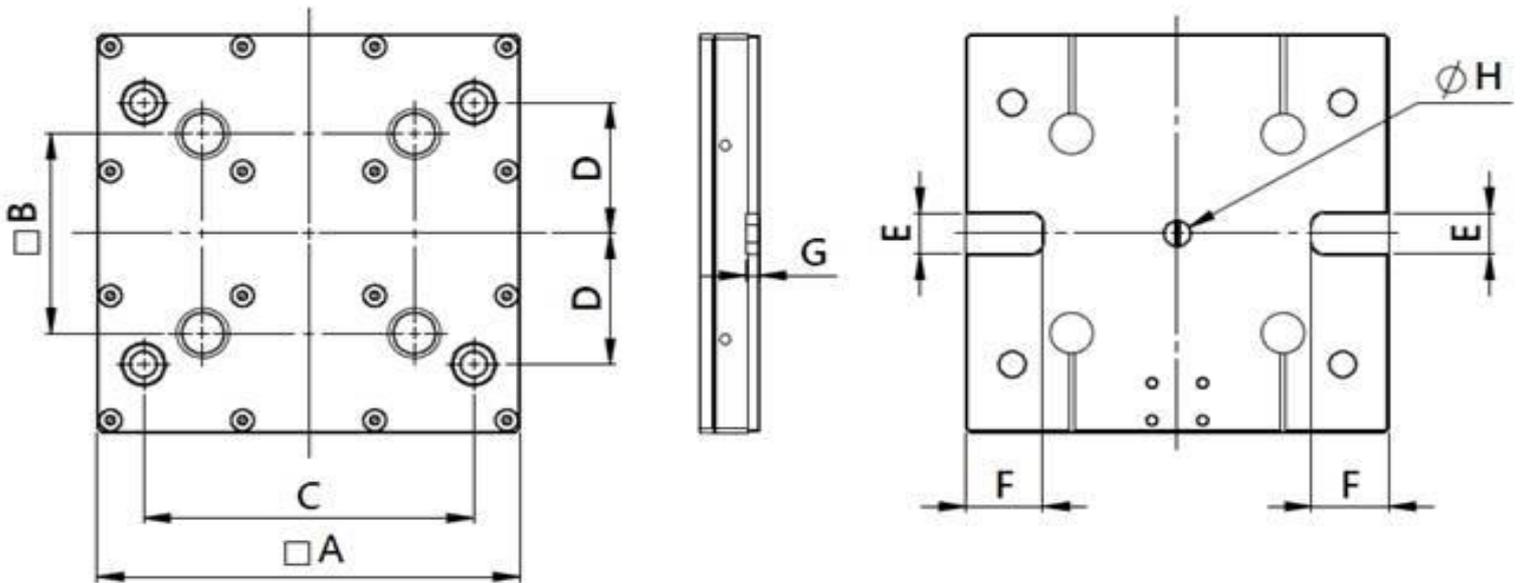
Features :

- ∅ The accuracy of double clamping position is high for Self centering machine vise · (reaching 0.015mm) · It is suitable for 4-axis 、 5-axis CNC machine tools 、 indexing spacer or precision horizontal and vertical multi-milling and cutting machining centers.
- ∅ The design of big opening jaws can clamp bigger work pieces(It should fit big work table plate to be used.)
- ∅ The vise body materials and parts are made by high alloy steel. It is adjusted and hardened heat by high quality procedures. It has high strength 、 high wear-resistance 、 high anti-tension features. The accuracy of datum plane and clamping side is high after precision multi-machining and grinding.
- ∅ The screw rod is adjusted and processed by high frequency. It increased the strength and wear-resistance substantially.
- ∅ The heat treatment of jaw plates is HRC45°. It can clamp hardness materials of below HRC40°.
- ∅ The design of jaw plates holes for moving block. It can change and increase the needing jaw plates fast to match the clamping demands for different machining work pieces. The clamping work pieces will be used more diverse and flexible.
- ∅ The vise has two clamping ways(J~J1) to suit for different machining ways and work piece size. To provide flexible clamping ways.
- ∅ The vise can be used by locked blocks and guide keys and connected joint plates or fixed on the working table directly. (It's not necessary to be used by quick mode change systems). It can save purchasing cost.
- ∅ The height of vise body has fixed dimension. (D) · It can be used by many quantities of vises at the same time.
- ∅ The special design of vise has patent.



ZERO POINT SYSTEM QPB- 96A

PRODUCTS INFORMATION



MODEL	A	B	C	D	E	F	G	H	Clamping force	N.W. KG
QPB-96A	192	96	150	63	20	35	6	12	6,000kgf	7kg

STANDARD ACCESSORIES :

1. Ratchet handle x1 pc
2. Hexagon socket x1 pc
3. Pull bolt x4 pcs
4. M10x35LScrewx4 pcs



※Can be combined the pull bolt with machine vise or other connecting plate for quick positioning

Feature :

Description of zero-point system:

- ∅ The hole distance of pull bolt is 96mm. The 4 pcs of pull bolts can provide 6 tons of clamping force (the 1 pc is around 1.5 tons pulling force) · it suits for 63 gapes interval of T groove.
- ∅ The depth of zero positioning quick change system is just 27mm (quick change system of fixtures) °
- ∅ By using the clamping structure of mechanical wedge pin, it is easy to operate the lock operation of pulling down the bolt.
- ∅ Even the non-skilled person, also can operate it fast and precise. The accuracy of double clamping position is 0.01mm °
- ∅ It has application ability to support any CNC machining center machines. (it can match 4-axis rotary table ∙ 5-axis rotary table ∙ trunnion rotary tilting table)