



PATENTED
142711
M278511
M287204
M320459
M338717

V-13~15

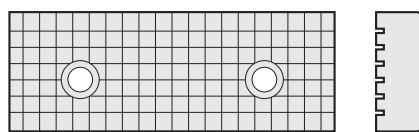
MULTI-POWER CNC SUPER VICE

Model: HPAQ-160, 200, 250,
160L, 200L

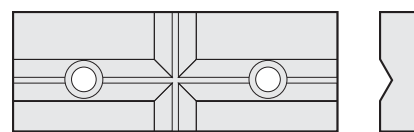


- Shortest Length with Big Jaw Opening
- Extremely High Accuracy and Repeatability
- Special MULTI-POWER design enhances clamping force of **0~8000KG**

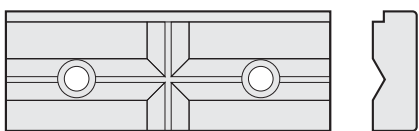
OPTIONAL ACCESSORIES:



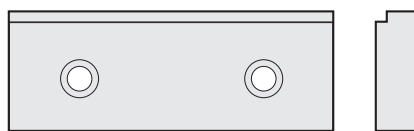
1) Cross Grooved Jaws



2) 'V' Jaws

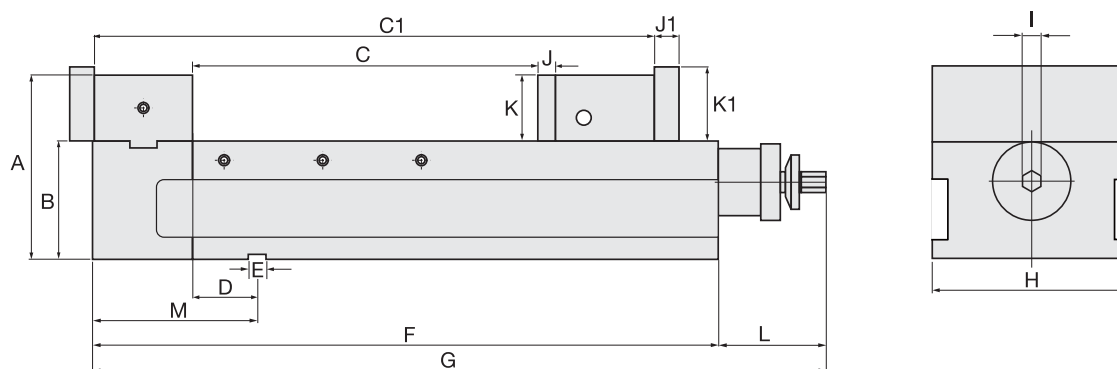


3) Combined Jaws



4) Step Jaws

DIMENSIONS



SPECIFICATIONS (Material: FCD 60 Ductile Iron. Hardness: HRC 50°)

Unit: mm

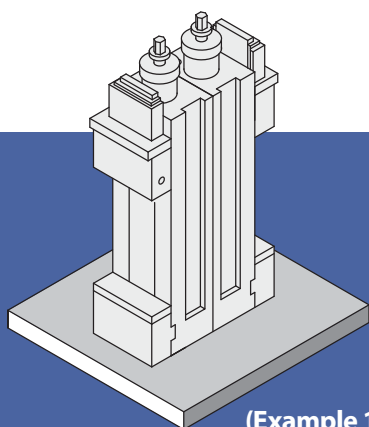
NO	Model	A	B	C	C1	D	E	F	G	H
V-13	HPAQ-160	168	115±0.01	0-300	195-490	57±0.02	18	560	677	160
V-14	HPAQ-200	187	120±0.01	0-350	220-570	66±0.02	18	637	754	200
V-15	HPAQ-250	187	120±0.01	0-350	220-580	66±0.02	18	646	763	250
V-13L1	HPAQ-160L-400	168	115±0.01	0-400	206-600	57±0.02	18	665	792	160
V-13L2	HPAQ-160L-500	168	115±0.01	0-500	206-700	57±0.02	18	765	892	160
V-13L3	HPAQ-160L-650	168	115±0.01	0-650	206-860	57±0.02	18	925	1042	160
V-14L1	HPAQ-200L-480	187	120±0.01	0-480	236-710	66±0.02	18	795	912	200
V-14L2	HPAQ-200L-730	187	120±0.01	0-730	236-960	66±0.02	18	1045	1162	200
V-14L3	HPAQ-200L-1140	187	120±0.01	0-1140	236-1370	66±0.02	18	1435	1560	200
NO	Model	I	J	J1	K	K1	L	M	Max. Clamping Force	Weight (kg)
V-13	HPAQ-160	19	15	21	53	63	117	145	8000 kg	73
V-14	HPAQ-200	19	18	25	66	75	117	168	8000 kg	120
V-15	HPAQ-250	19	18	25	66	75	117	168	8000 kg	156
V-13L1	HPAQ-160L-400	19	15	21	53	63	117	145	8000 kg	83
V-13L2	HPAQ-160L-500	19	15	21	53	63	117	145	8000 kg	92
V-13L3	HPAQ-160L-650	19	15	21	53	63	117	145	8000 kg	107
V-14L1	HPAQ-200L-480	19	18	25	66	75	117	168	8000 kg	144
V-14L2	HPAQ-200L-730	19	18	25	66	75	117	168	8000 kg	175
V-14L3	HPAQ-200L-1140	19	18	25	66	75	117	168	8000 kg	217



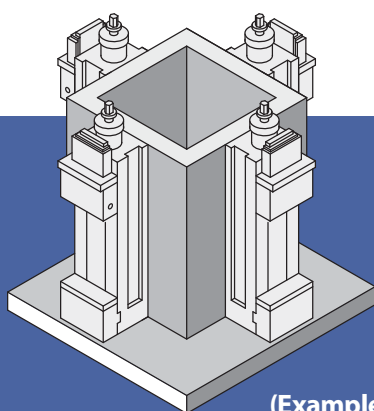
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MULTI-POWER CNC SUPER VICE

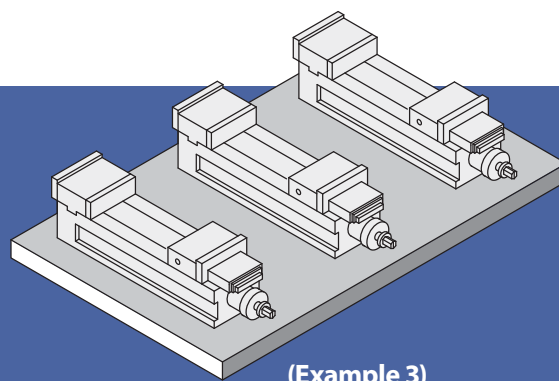
Model: HPAQ-160, 200, 250, 160L, 200L



(Example 1)



(Example 2)



(Example 3)

ICE

1. Vice Fixed Jaw is made of **high quality steel** and **HARDENED** to **HRC 55°**. Vice body is made of Ductile Iron above FCD 60 grade for high precision and durability. With a force of 4500kg, the shape will deflect less than **0.005mm**.

2. Slide ways are **HARDENED** to **HRC 50°** to further increase durability and maintain positioning height over long use.

3. The **Special ANGLE-LOCK SYSTEM** with compact design and high-grade iron of over FCD 60 grade for high rigidity automatically pulls the work-piece down to the accurate position of within **0.005mm** under 4500kg of pressure. This vice is most suitable for precision mould making on Machining Centers.

4. Vice can be mounted horizontally or vertically.

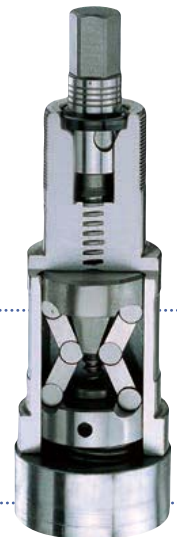
5. The patented MULTI-POWER SYSTEM built of **HIGH GRADE BEARING STEEL** doubles the clamping force.

*With the first half a turn
the vice will clamp with 2500kg pressure.*

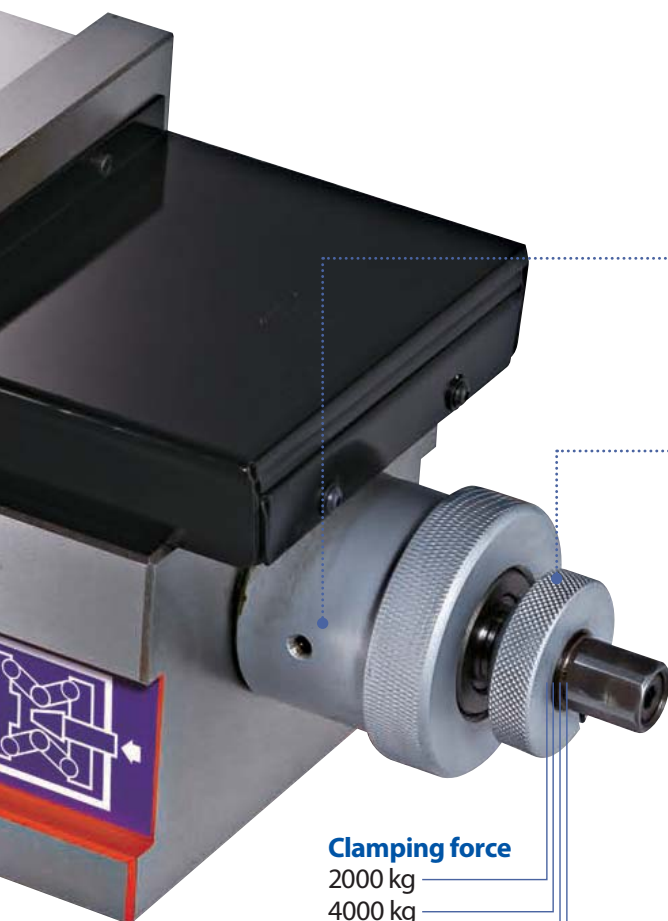
*With a second half turn
it will apply 4500kg of clamping force.*

This special patented system makes the clamping force constant.

6. **Adjusting stop ring:** This simple and effective presetting device enables to **preset each desired clamping force** and it guarantees to repeat each clamping operation at the same clamping force.



The patented MULTI-POWER SYSTEM built of **HIGH GRADE BEARING STEEL** provides extremely high clamping pressure. The pressure is more consistent and eliminates all leakage and maintenance problems associated with Hydraulic Vices.



Clamping force

2000 kg

4000 kg

6000 kg

8000 kg



STANDARD ACCESSORIES:

- 2 pcs of Alignment Wedge
- 4 pcs of Clamp

OPTIONAL ACCESSORIES:

- Cross Grooved Jaws
- 'V' Jaws
- Combined Jaws
- Step Jaws

Fixed height so several vices can be used together.

This vice is highly suitable for **precision mould making** on machining centers as well as **heavy duty machining** which require high clamping force with high accuracy.

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V-16~18

MULTI-POWER CNC PRECISION FIXED ANGLE VICE

Model: HPAC-130, 160, 160L, 200

- Extremely high accuracy and repeatability
- Adjustable clamping force of **0~8000KG**



V-19~21

CNC PRECISION FIXED ANGLE VICE

Model: HPAV-130, 160, 160L, 200

This vice has the same features as model HPAC above but has standard clamping screw instead of the MULTI-POWER SYSTEM.

