

# MULTI-POWER CNC SUPER VISE

Model: HPAQ-100, 130  
HPAQ-160, 200, 250, 160L, 200L

**PATENTED**  
M458489  
M395751  
M278511  
M390838  
M435335



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

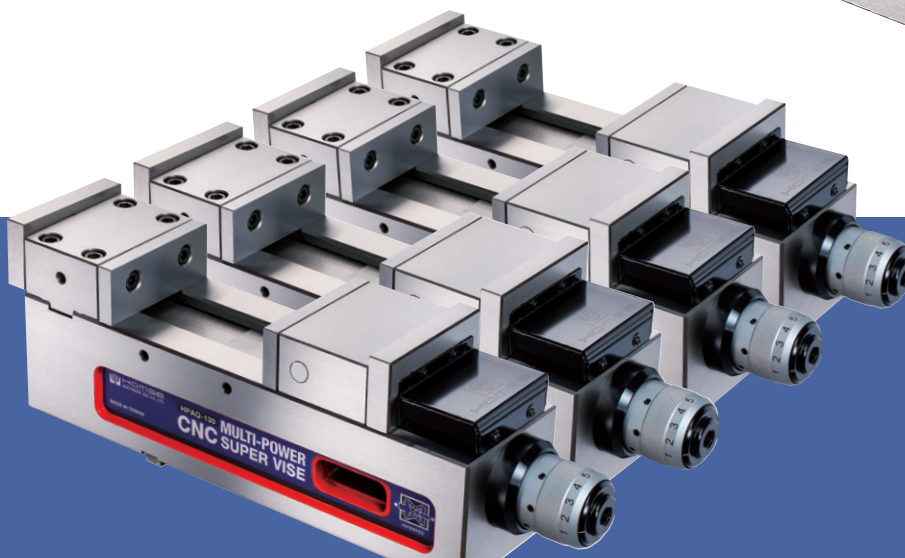
**PATENTED**  
**M523545**  
**M278511**

# MULTI-POWER CNC SUPER VISE

## Model: HPAQ-100, 130



- Shortest Length with Big Jaw Opening
- Extremely High Accuracy and Repeatability
- Special MULTI-POWER design enhances clamping force of **0~5500 KG**



**1.** **Vise Fixed Jaw** is made by **high quality steel** and **HARDENED** to **HRC 55°**. Vise body is made of Ductile Iron above FCD 60 grade for high precision and durability. With a force of 2500kg, the shape will deflect less than **0.005mm**.

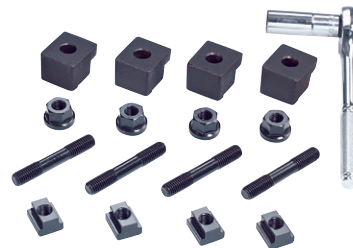
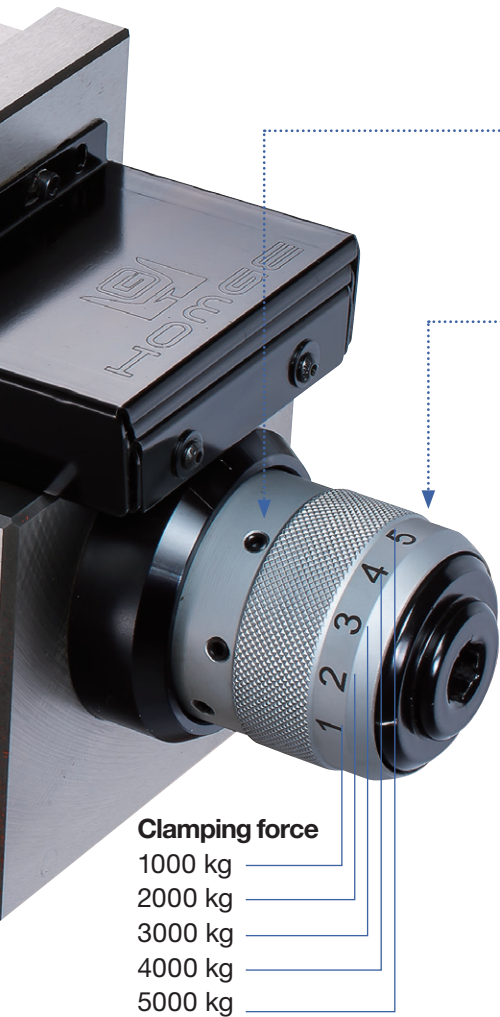
**2.** Slide ways are **HARDENED** to **HRC 50°** to further increase durability and maintain positioning height over long use.

**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 2500kg of pressure. This vise is most suitable for precision mould making on Machining Centers.

**4.** Vise can be mounted horizontally or vertically.

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



**STANDARD ACCESSORIES**

- 2 pcs of Alignment Wedge
- 4 pcs of Clamp
- 1 pc of Handle

**OPTIONAL ACCESSORIES**

- Cross Grooved Jaws
- "V" Jaws
- Comvbined Jaws
- Step Jaws



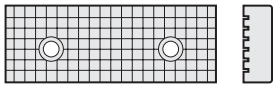
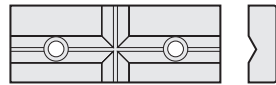
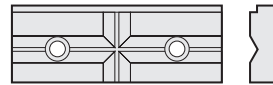
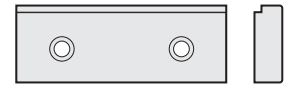
**PAT.**

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 Vises.

**Fixed height so several vises can be used together.**

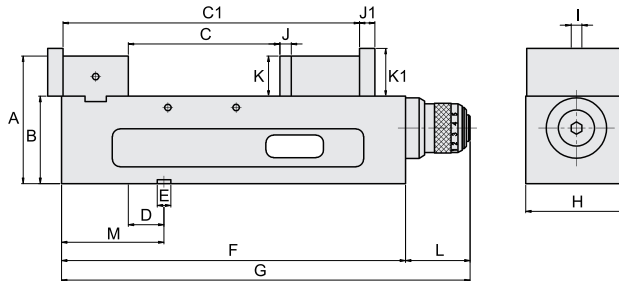
This vise is highly suitable for **precision mould making** on machining centers as well as **heavy duty machining** which required high clamping force with high accuracy.

## OPTIONAL ACCESSORIES

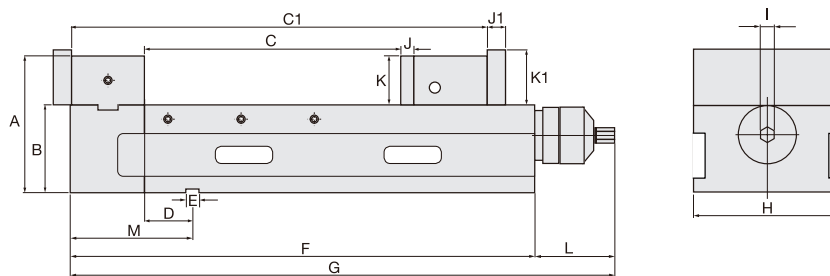

**1) Cross Grooved Jaws**

**2) 'V' Jaws**

**3) Combined Jaws**

**4) Step Jaws**

## DIMENSIONS

### HPAQ-100, 130



### HPAQ - 160, 200, 250, 160L, 200L



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

Unit: mm

Model	A	B	C	C1	D	E	F	G	H
HPAQ-100	145	105±0.01	0-170	185-350	65±0.02	18	420	507	104
HPAQ-130	163	115±0.01	0-205	195-395	57±0.02	18	470	557	134
HPAQ-160	168	115±0.01	0-300	195-490	57±0.02	18	560	677	160
HPAQ-200	187	120±0.01	0-350	220-570	66±0.02	18	637	754	200
HPAQ-250	187	120±0.01	0-450	220-670	66±0.02	18	746	863	250
HPAQ-160L-400	168	115±0.01	0-400	206-600	57±0.02	18	665	792	160
HPAQ-160L-500	168	115±0.01	0-500	206-700	57±0.02	18	765	892	160
HPAQ-160L-650	168	115±0.01	0-650	206-860	57±0.02	18	925	1042	160
HPAQ-200L-500	187	120±0.01	0-500	220-720	66±0.02	18	806	923	201
HPAQ-200L-600	187	120±0.01	0-600	220-820	66±0.02	18	910	1027	201
HPAQ-200L-850	187	120±0.01	0-850	220-1070	66±0.02	18	1156	1273	201
HPAQ-200L-1140	187	120±0.01	0-1140	220-1360	66±0.02	18	1446	1563	201
Model	I	J	J1	K	K1	L	M	Max. Clamping Force	Weight (kg)
HPAQ-100	14	15	20	40	50	87	145	4000 kg	40
HPAQ-130	14	15	20	48	58	87	145	5500 kg	50
HPAQ-160	19	15	21	53	63	117	145	8000 kg	73
HPAQ-200	19	18	25	66	75	117	168	8000 kg	120
HPAQ-250	19	18	24	66	75	117	168	8000 kg	140
HPAQ-160L-400	19	15	21	53	63	117	145	8000 kg	83
HPAQ-160L-500	19	15	21	53	63	117	145	8000 kg	92
HPAQ-160L-650	19	15	21	53	63	117	145	8000 kg	107
HPAQ-200L-500	19	18	24	66	75	117	168	8000 kg	144
HPAQ-200L-600	19	18	24	66	75	117	168	8000 kg	160
HPAQ-200L-850	19	18	24	66	75	117	168	8000 kg	190
HPAQ-200L-1140	19	18	24	66	75	117	168	8000 kg	217