



MULTI-POWER CNC PRECISION FIXED ANGLE WISE

Significantly upgrade CNC Machining Centers



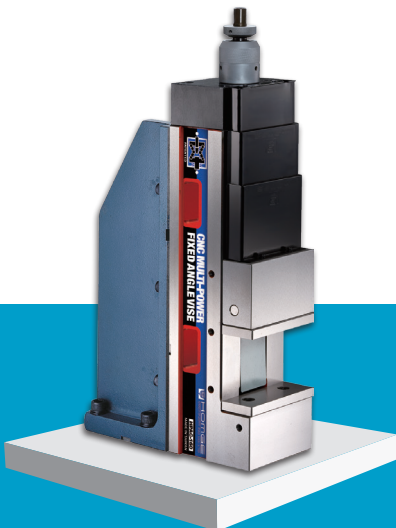
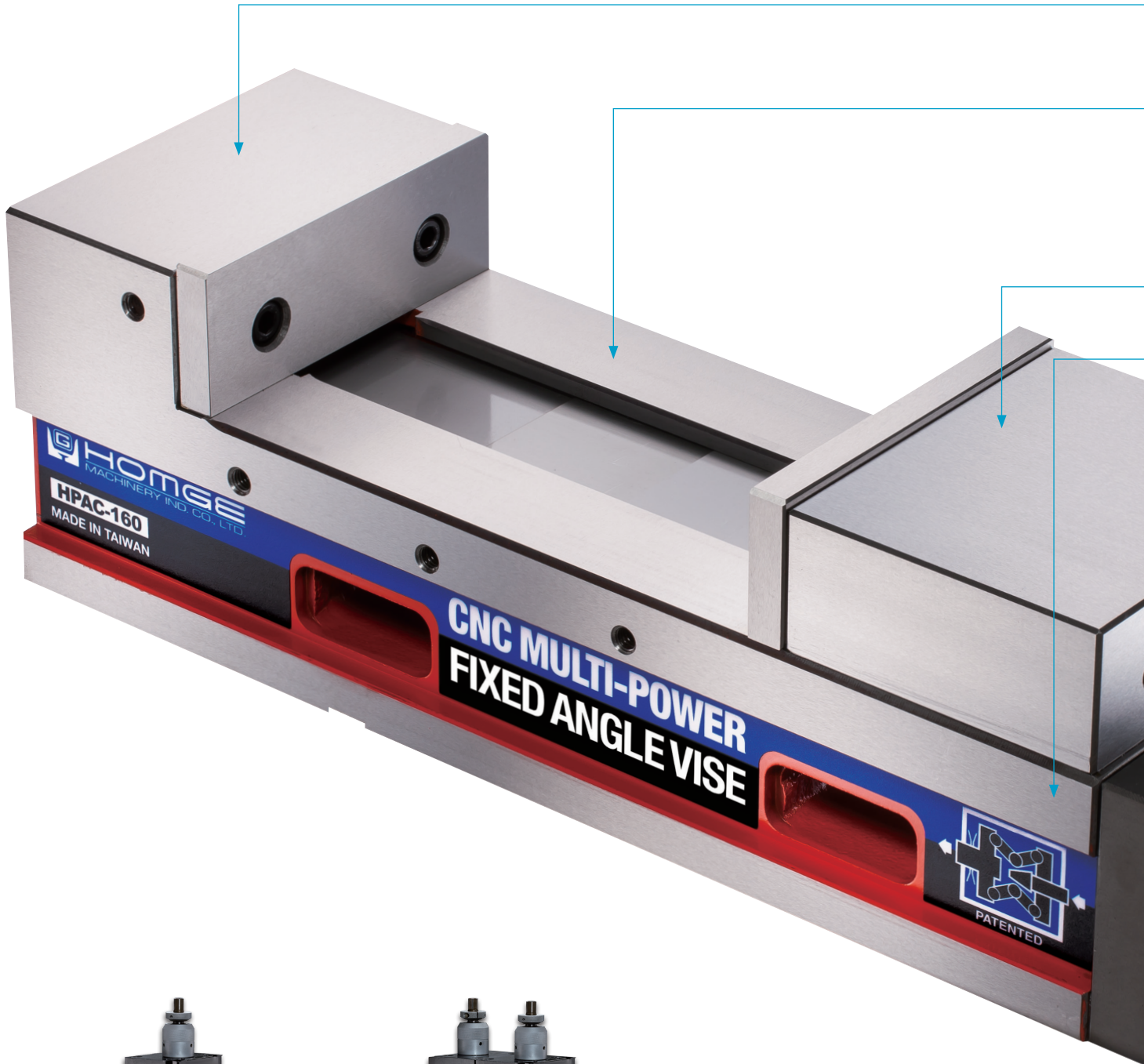
PATENTED
M458489
M395751
M390838
M435335

- Extremely High Accuracy and Repeatability
- Adjustable Clamping Force of **0~8000 KG**

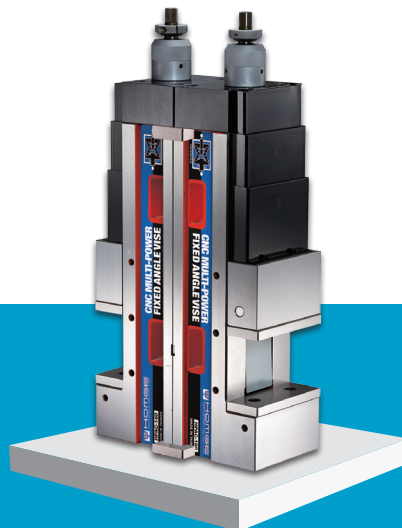
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MULTI-POWER CNC PRECISION FIXED ANGLE VISE

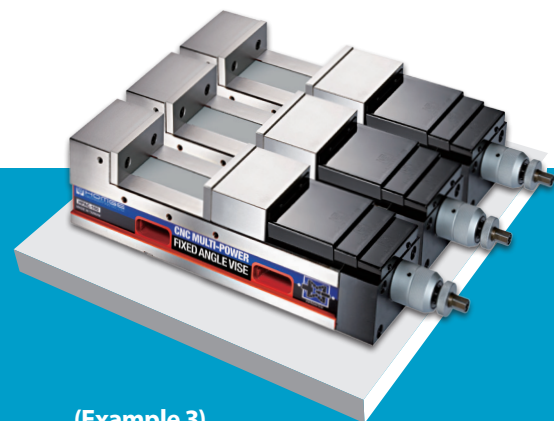
Model: HPAC-130, 160, 160L, 200



(Example 1)



(Example 2)



(Example 3)

1. Vise body is made of **Ductile Iron** above **FCD 60** grade for high precision and durability and is made in one solid piece. It has very high rigidity and with a force of 4500kg, the shape will deflect less than **0.01mm**.

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

3. Using high-grade iron of over FCD 60 grade for high rigidity and also **ANGLE-LOCK SYSTEM** which automatically pulls the work-piece down to the accurate position of within **0.01mm** under 4500kg 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. With the **first half a turn** the vise 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.



Clamping Force

- 8000 kg
- 6000 kg
- 4000 kg
- 2000 kg

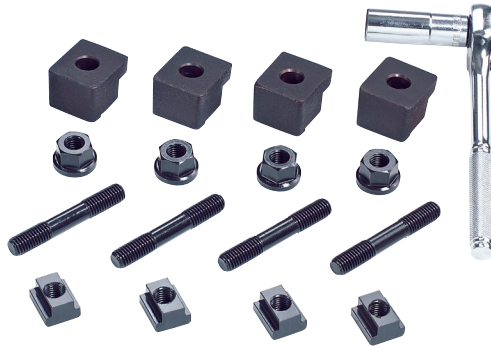
The patented MULTI-POWER SYSTEM built of **HIGH GRADE BEARING STEEL** provides extremely high clamping pressure. The pressure is more consistent and eliminates all leakage and maintenance problems associated with Hydraulic Vises.



Fixed height so several vises can be used together.

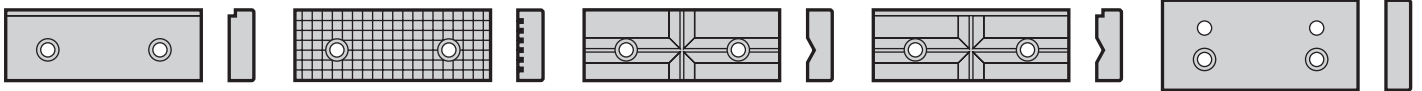
This product is suitable for multi-unit applications on both horizontal and vertical CNC Machining Centers as well as conventional Milling Machines where heavy duty machining requires a very high clamping force.

STANDARD ACCESSORIES



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

OPTIONAL ACCESSORIES



1) Step Jaws

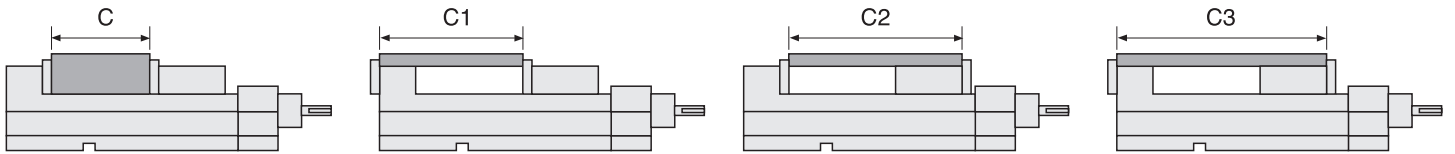
2) Cross Grooved Jaws

3) 'V' Jaws

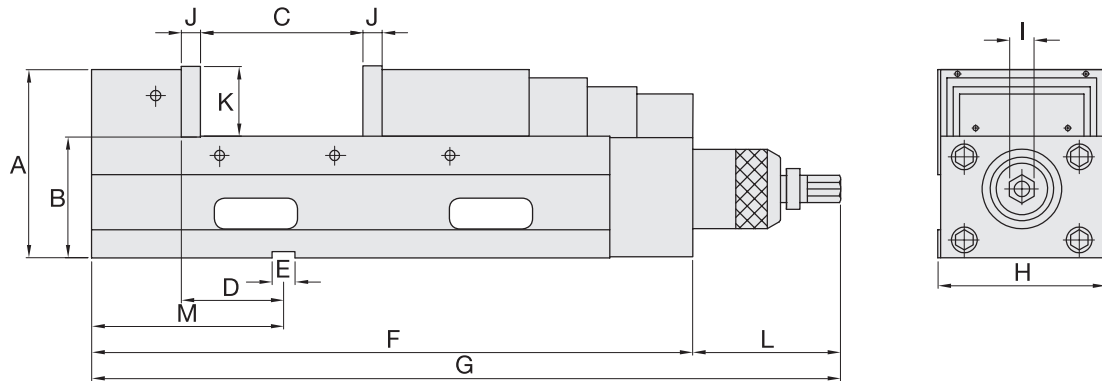
4) Combined Jaws

5) Front / Back Jaws

DIMENSIONS FOR 4 JAW PLATE POSITIONS



DIMENSIONS



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

Unit: mm

Model	A	B	C	C1	C2	C3	D	E	F
HPAC-130	147	95±0.01	0-190	70-260	115-305	185-375	80±0.02	18	475
HPAC-160	160	105±0.01	0-250	85-325	140-375	220-460	80±0.02	18	560
HPAC-160L	160	105±0.01	0-300	85-375	110-395	190-480	80±0.02	18	580
HPAC-200	170	110±0.01	0-305	90-380	155-440	240-530	100±0.02	18	635

Model	G	H	I	J	K	L	M	Max. Clamping Force	Weight (kg)
HPAC-130	583	131	19	15	55	120	150	6000kg	47
HPAC-160	670	161	19	15	58	120	165	8000kg	65
HPAC-160L	690	161	19	15	58	120	165	8000kg	67
HPAC-200	743	201	19	18	63	120	197	8000kg	95

MULTI-POWER CNC PRECISION FIXED ANGLE VISE

(Front-Mounting Type)

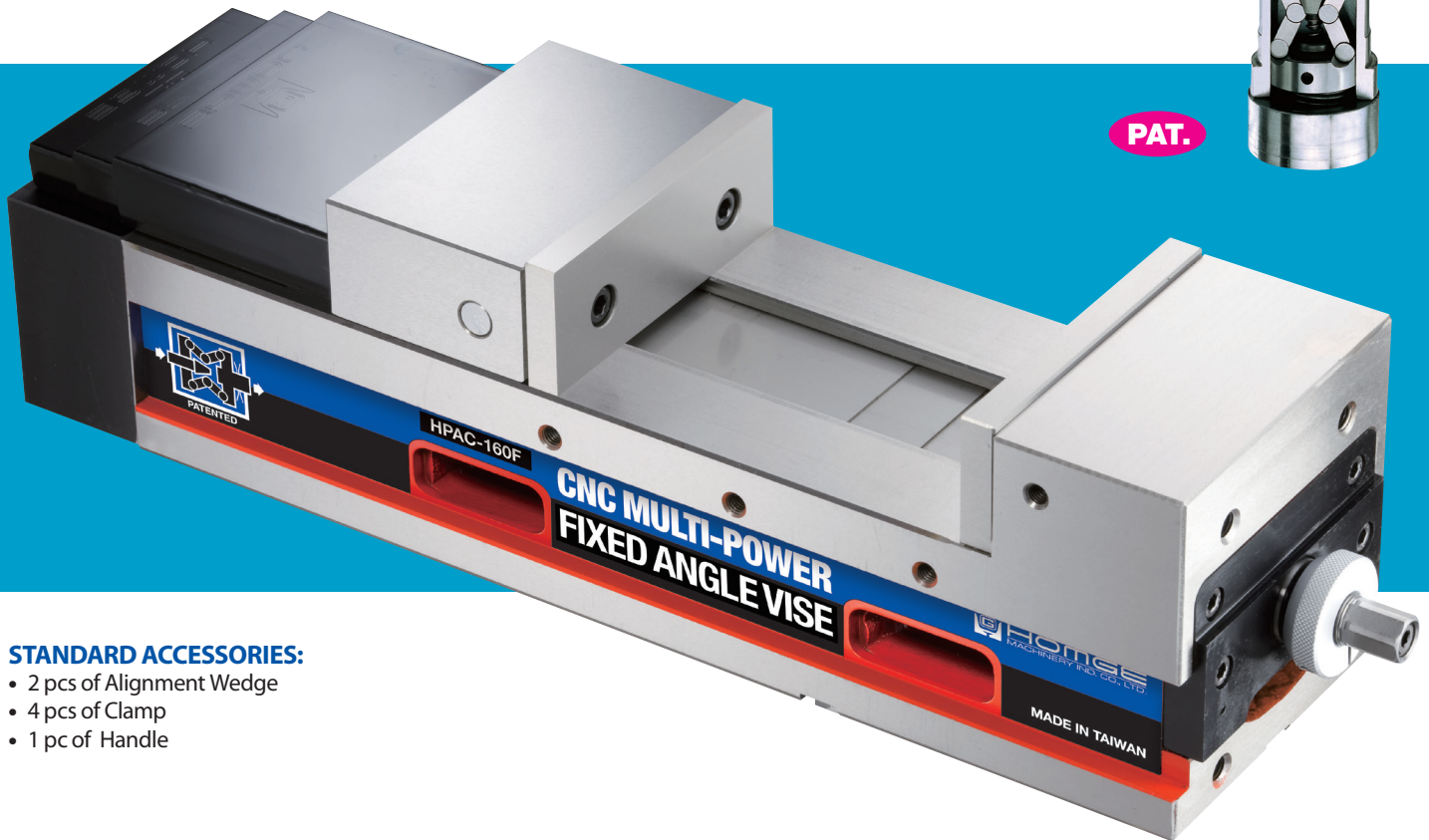
Model: HPAC-160F, 200F

PATENTED
M287204
M458489
M397304
M278511

- Special MULTI-POWER design enhances clamping force of 0~6000kg
- It's ergonomics for easy reach, thus saves time and prevents back strain.
- The HPAC-160F possesses all features of HPAC-Type.

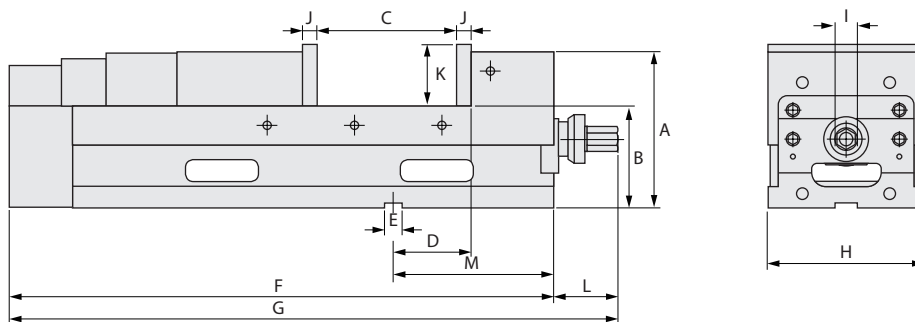


PAT.



STANDARD ACCESSORIES:

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



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

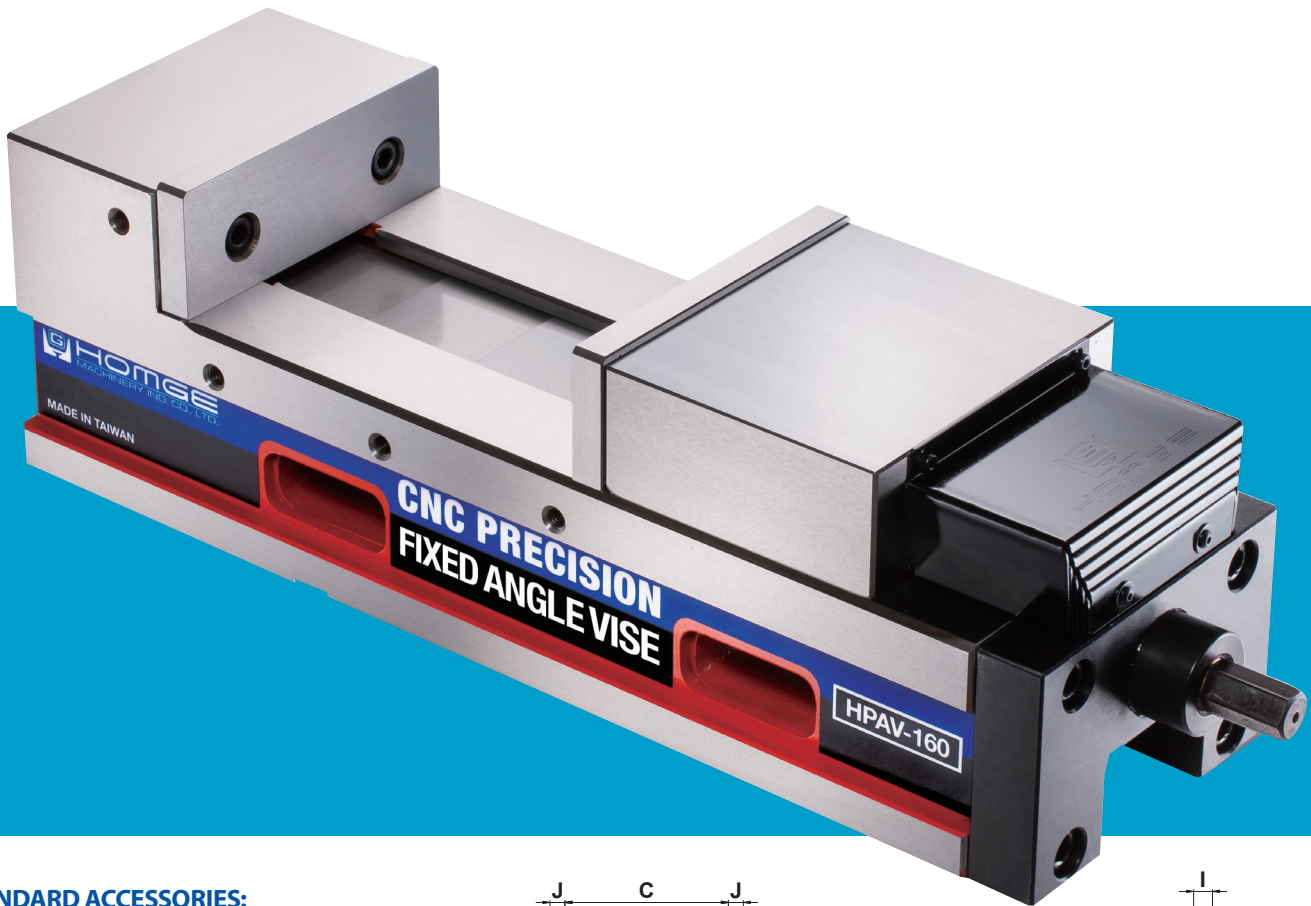
Unit: mm

MODEL	A	B	C	C1	C2	C3	D	E	F
HPAC-160F	160	105±0.01	0-300	85-375	110-395	190-480	80±0.02	18	580
HPAC-200F	170	110±0.01	0-290	99-280	155-440	240-530	100±0.02	18	635
MODEL	G	H	I	J	K	L	M	Max. Clamping Force	Weight (kg)
HPAC-160F	637	161	19	15	58	57	165±0.02	5000 kg	65
HPAC-200F	743	201	19	18	63	57	197±0.02	6000 kg	95

CNC PRECISION FIXED ANGLE VISE

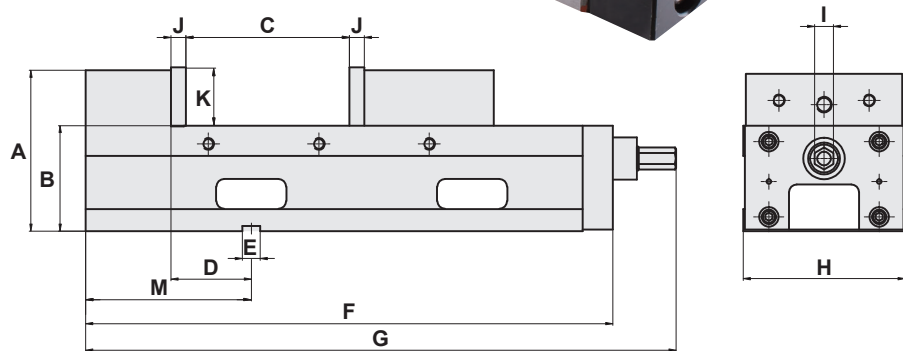
Model: HPAV-130, 160, 160L, 200

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



STANDARD ACCESSORIES:

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



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

Unit: mm

Model	A	B	C	C1	C2	C3	D	E
HPAV-130	147	95±0.01	0-190	70-260	115-305	185-375	80±0.02	18
HPAV-160	160	105±0.01	0-250	85-325	140-375	220-460	80±0.02	18
HPAV-160L	160	105±0.01	0-300	85-375	110-395	190-480	80±0.02	18
HPAV-200	170	110±0.01	0-290	90-380	155-440	240-530	100±0.02	18
Model	F	G	H	I	J	K	M	Weight (kg)
HPAV-130	440	503	131	19	15	55	150	42
HPAV-160	525	588	161	19	15	58	165	60
HPAV-160L	545	608	161	19	15	58	165	62
HPAV-200	600	662	201	19	18	63	197	90



Factory: No.287, Sec. 1, Shenlin Rd., Daya Dist., Taichung City 428, Taiwan
Tel: 886-4-2567 2057 . 2566 6158 | **Fax:** 886-4-2567 2016 . 2568 6099
E-mail: homge@ms22.hinet.net | **http://www.homge.com.tw**

