



HOMGE

Quality engineering equipment
enhanced by continual research
and development for long
durability, high accuracy
and efficient operation



Established in 1978

All parts are standardized.
Whenever you purchase “HOMGE” products,
all parts are interchangeable.

Manufacturer: Specialist In Milling Accessories





Company Profile

We are a professional manufacturer specialize in producing milling accessories. The impressive growth since HOMGE was established in 1978 has paid tribute and is evident of hard work and persistence of the company's owner and staffs. Our company has proven to be the number one specialist in milling accessories. We have focused our efforts on the manufacturing support of various tooling requirements. Because of the nature of our products, we have been able to concentrate and excel in the areas of quality control, customer service and innovation. Our company has multiple International patents which prove to be on the cutting edge of design and technology.

- **Established in 1978.**
- **Factory dimension 6000 m².**
- **All the specification of parts are unified.**



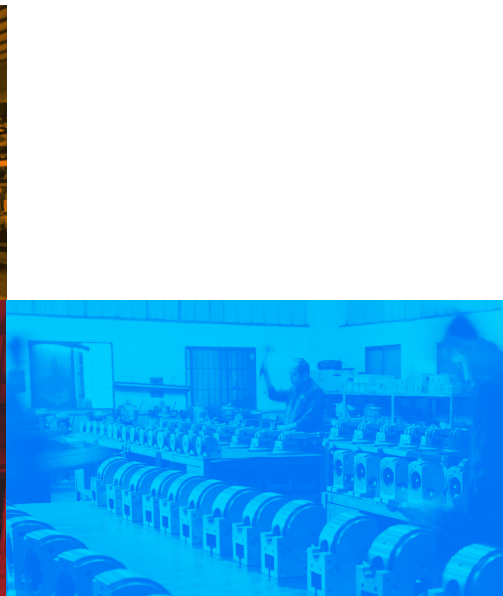
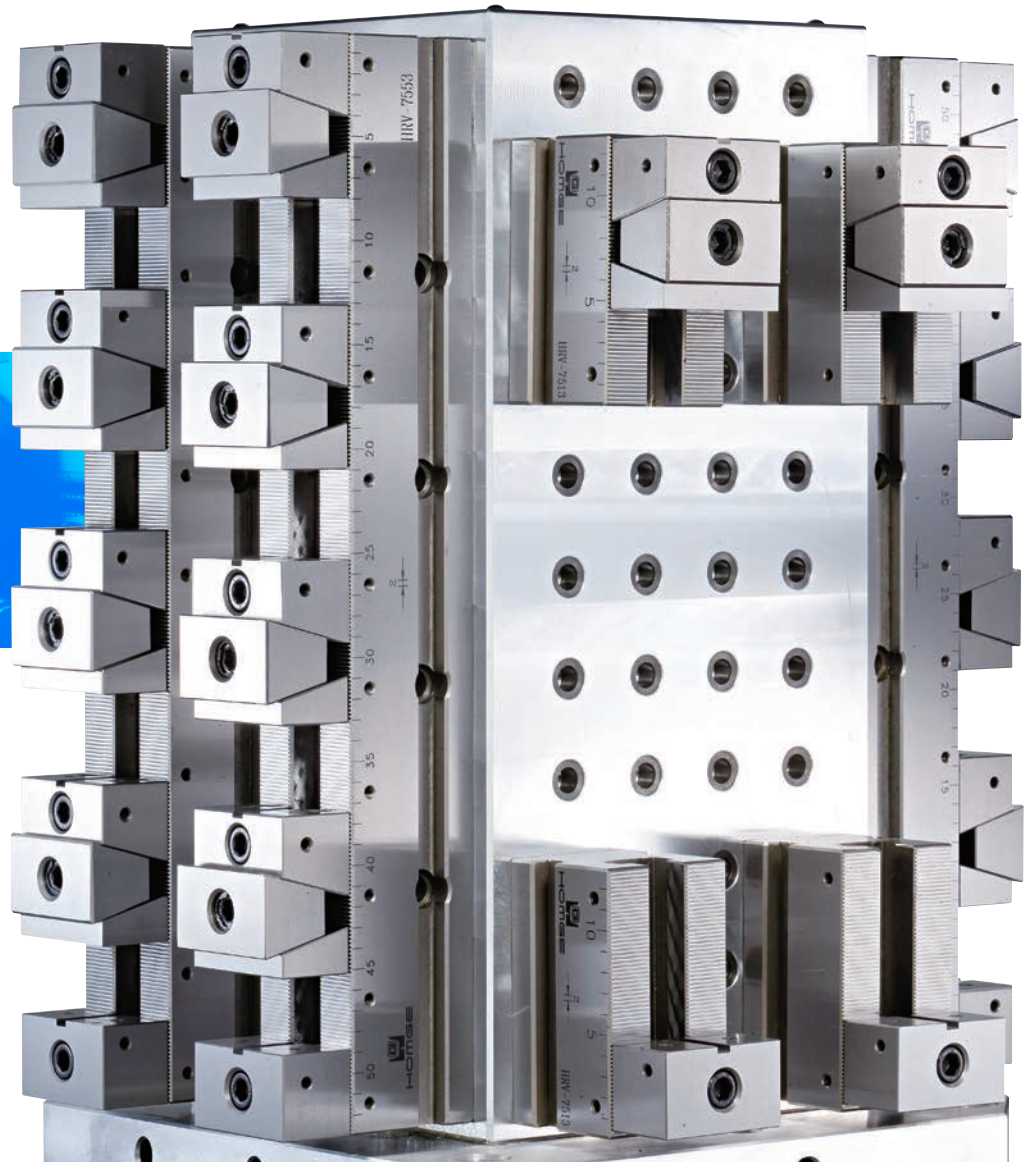
SERVING THE INDUSTRY

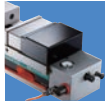
Internationally renowned for unsur
reliability and superior quality



WORLDWIDE

passed dedication,





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p.19 **M/C SQUARE & DOUBLE SIDED TOOLING COLUMN**



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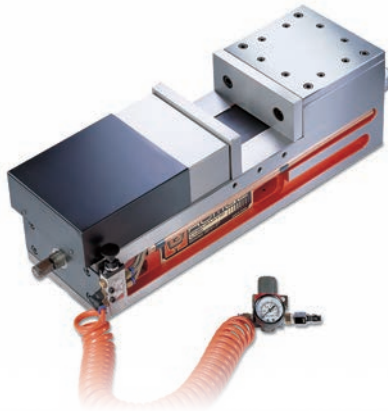
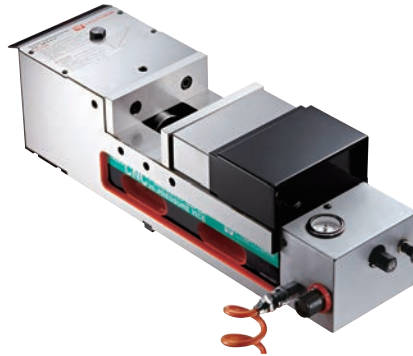
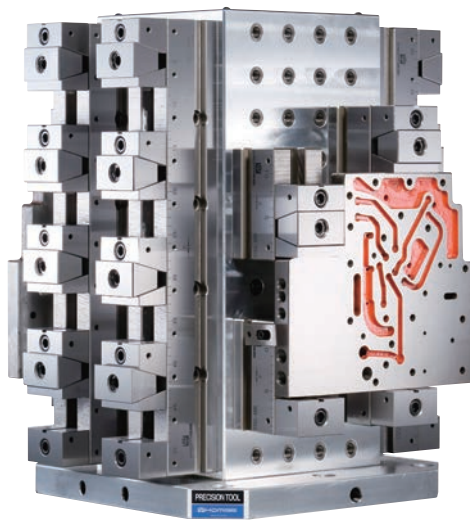
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AUTOMATION EQUIPMENT

A-01~02
P.14
PNEUMATIC VICE
 MODEL: HPV-5", 7"

A-03A, 03~04
P.15
PNEUMATIC SUPER HI-PRESSURE VICE
 MODEL: HPV-II 5", 6", 8"

A-05~09
P.18
PRECISION INDEX TABLE
 MODEL: HPI-300, 450, 600, 800, 1000

P.19

M/C SQUARE & DOUBLE SIDED TOOLING COLUMN

- Heat treated (Normalized)
- Application: Good for horizontal M/C

 400 X 400 X 500
 500 X 500 X 600
 630 X 630 X 700
 800 X 800 X 800

M/C SQUARE TOOLING COLUMN



■ HSF - TYPE



■ HSH - TYPE

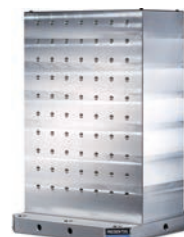


■ HST - TYPE

M/C DOUBLE SIDED TOOLING COLUMN



■ HDF - TYPE



■ HDH - TYPE



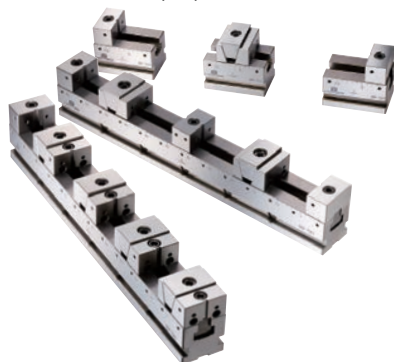
■ HDT - TYPE

V-01~12

P.28

VICE IN-ROW

MODEL: HRV-50, 75, 100


V-13~15

P.34

MULTI-POWER CNC SUPER VICE

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

V-16~18

P.38

MULTI-POWER CNC PRECISION FIXED ANGLE VICE

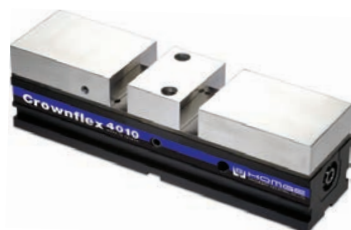
MODEL: HPAC-130, 160, 160L, 200


V-23~24

P.46

ALUMINUM VICE

MODEL: CROWNFLX-4010, 5015


V-25~26

P.50

DOUBLE CNC PRECISION VICE

MODEL: HDL-4", 6"


V-27

P.51

SUPER-OPEN QUICK ACTION VICE

MODEL: HSAC-160


V-34~38

P.56

PRECISION ANGLE LOCK MACHINE VICE

MODEL: HAV- 4", 5", 6", 8", 12"


V-39

P.56

PRECISION ANGLE LOCK MACHINE VICE

MODEL: 6" SUPER-OPEN 8"


V-40~47

P.59

PRECISION RAPID VICE

MODEL: HG-100, 150 (A,B,C,D),
HG-200 (A,B,C)

V-60~63

P.61

HYDRAULIC MACHINE VICE

MODEL: HH-100,125,150,200


V-64~65

P.61

TILTING HYDRAULIC MACHINE VICE

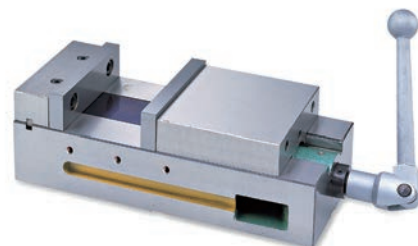
MODEL: HW-100,150


V-66

P.62

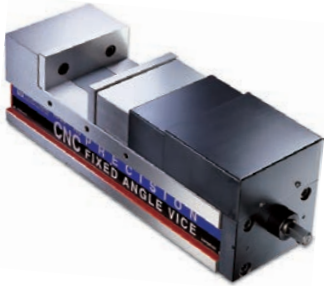
LOCK II MACHINE VICE

MODEL: HMC-6"

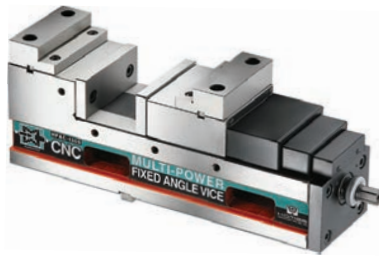


V-19~21 P.38

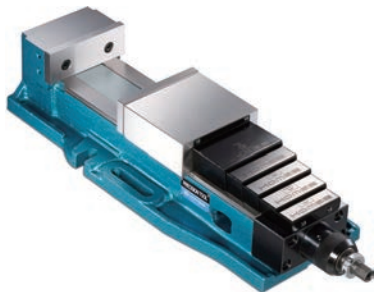
CNC PRECISION FIXED ANGLE VICE
 MODEL: HPAV-130, 160, 160L, 200


V-22A / 22 / 22B P.42

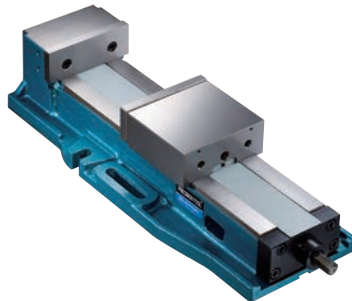
**MULTI-POWER CNC PRECISION
 FIXED ANGLE VICE**
 MODEL: HPAC-100S, 130S, 160S


V-28~29 P.52

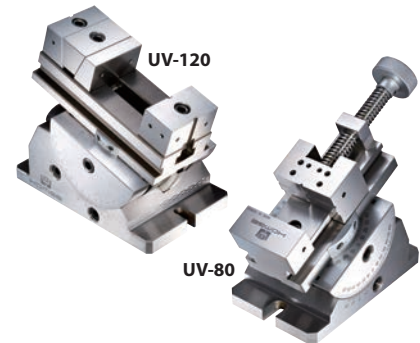
**MULTI-POWER FIXED ANGLE
 PRECISION VICE (EXTENDED TYPE)**
 MODEL: HMAV-160, 200


V-30~31 P.52

**STANDARD FIXED ANGLE
 PRECISION VICE (EXTENDED TYPE)**
 MODEL: HEAV-160, 200


V-32~33 P.55

PRECISION UNIVERSAL VICE
 MODEL: UV-80, 120


V-48~54 P.59

PRECISION RAPID VICE WITH SWIVEL BASE
 MODEL: HG-150S (A,B,C,D),
 HG-200S (A,B,C)


V-55~57 P.60

SUPER-OPEN MILLING VICE
 MODEL: H-400, 600, 800


V-58~59 P.60

TILTING SUPER-OPEN VICE
 MODEL: HHY-100, 150


V-67~68 P.62

ANGLE-LOCK DRILL PRESS VICE
 MODEL: HDV-100, 130


V-69~71 P.63

UNIVERSAL 3-WAY TILTING VICE
 MODEL: HY-3", 4", 5"


V-72~75 P.63

K - TYPE MACHINE VICE
 MODEL: HKV-100, 125, 150, 200



D-02 P.65
DIVIDING PLATE SET FOR HUT-300
MODEL: HUT-300DP



D-03 P.65
TAIL STOCK FOR HUT-300
MODEL: HUT-300TS



D-07 P.69
UNIVERSAL DIVIDING HEAD
MODEL: BS-2



D-08~09 P.70
SIMPLE INDEXING SPACER
MODEL: CC-6", 8"



D-10~11 P.71
SUPER INDEXING SPACER
MODEL: CS-6", 8"



D-21~25 P.73
HORIZONTAL ROTARY TABLE
MODEL: HHT-150, 200, 250, 300, 350



D-26~28 P.72
TAIL STOCK FOR ROTARY TABLE
MODEL: TS-1, 2, 3



DIVIDING EQUIPMENT

D-01 P.65

UNIVERSAL TILTING ROTARY TABLE
MODEL: HUT-300



D-04 P.66

SUPER DIVIDER
MODEL: HSD-7"



D-05~06 P.68

SEMI-UNIVERSAL DIVIDING HEAD
MODEL: BS-0,1



D-12~13 P.70

TAIL STOCK FOR CC & CS-TYPE SPACERS
MODEL: TS-4, 5



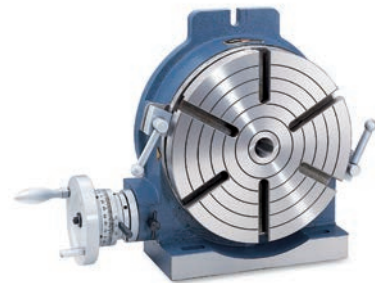
D-14 P.71

DIVIDING PLATE SET FOR CS-6"8"
MODEL: DP-4, 5



D-15~20 P.72

HORIZONTAL / VERTICAL ROTARY TABLE
MODEL: HHV-150, 200, 250, 300, 350, 400



D-29~31 P.73

DIVIDING PLATE SET FOR ROTARY TABLE
MODEL: DP-1, 2, 3



D-32 P.74

SUPERIOR UNIVERSAL DIVIDING HEAD
MODEL: HCM-2



ANGLE FIXTURES

P-01~04
P.76
TILTING TABLE

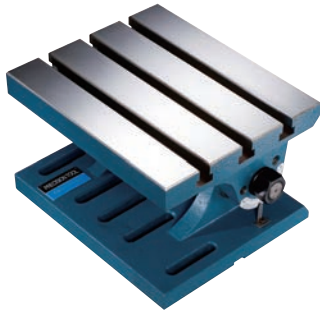
MODEL: HAP-180, 250, 380, 600


P-05~07
P.76
TILTING TABLE WITH SWIVEL BASE

MODEL: HAP-180S, 250S, 380S


P-08~11
P.77
TILTING ANGLE PLATE

MODEL: HSAP-1, 2, 3, 4


P-12~16
P.77
SLOTTED ANGLE PLATE

MODEL: HL-4", 6", 8", 10", 12"



MILLING ATTACHMENTS

M-01~03
P.79
RIGHT ANGLE MILLING HEAD

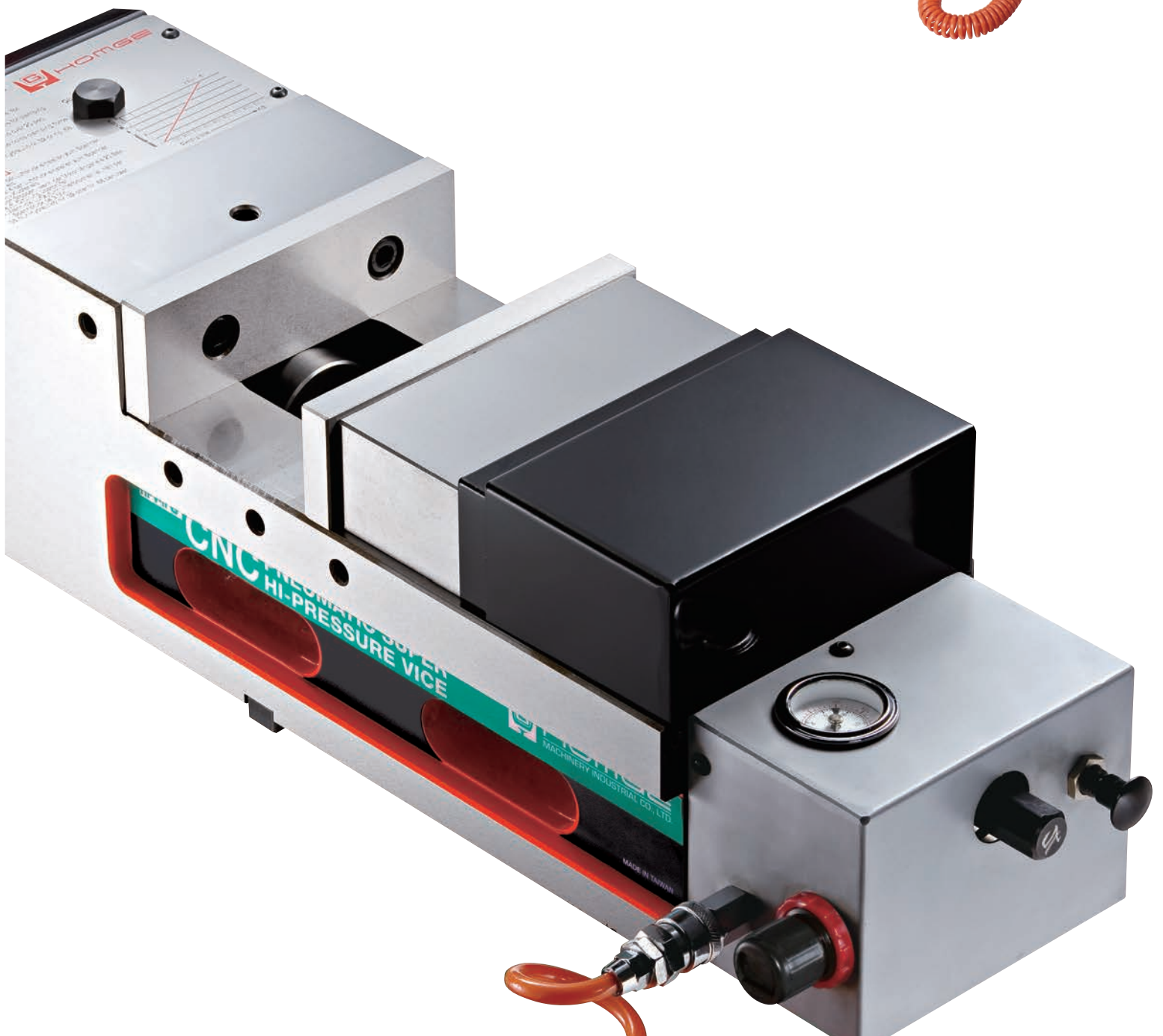
MODEL: R8, NT30, NT40


M-04~06
P.79
HORIZONTAL MILLING ATTACHMENT

(RIGHT ANGLE MILLING HEAD + ARBOR + SUPPORT)

MODEL: R8, NT30, NT40





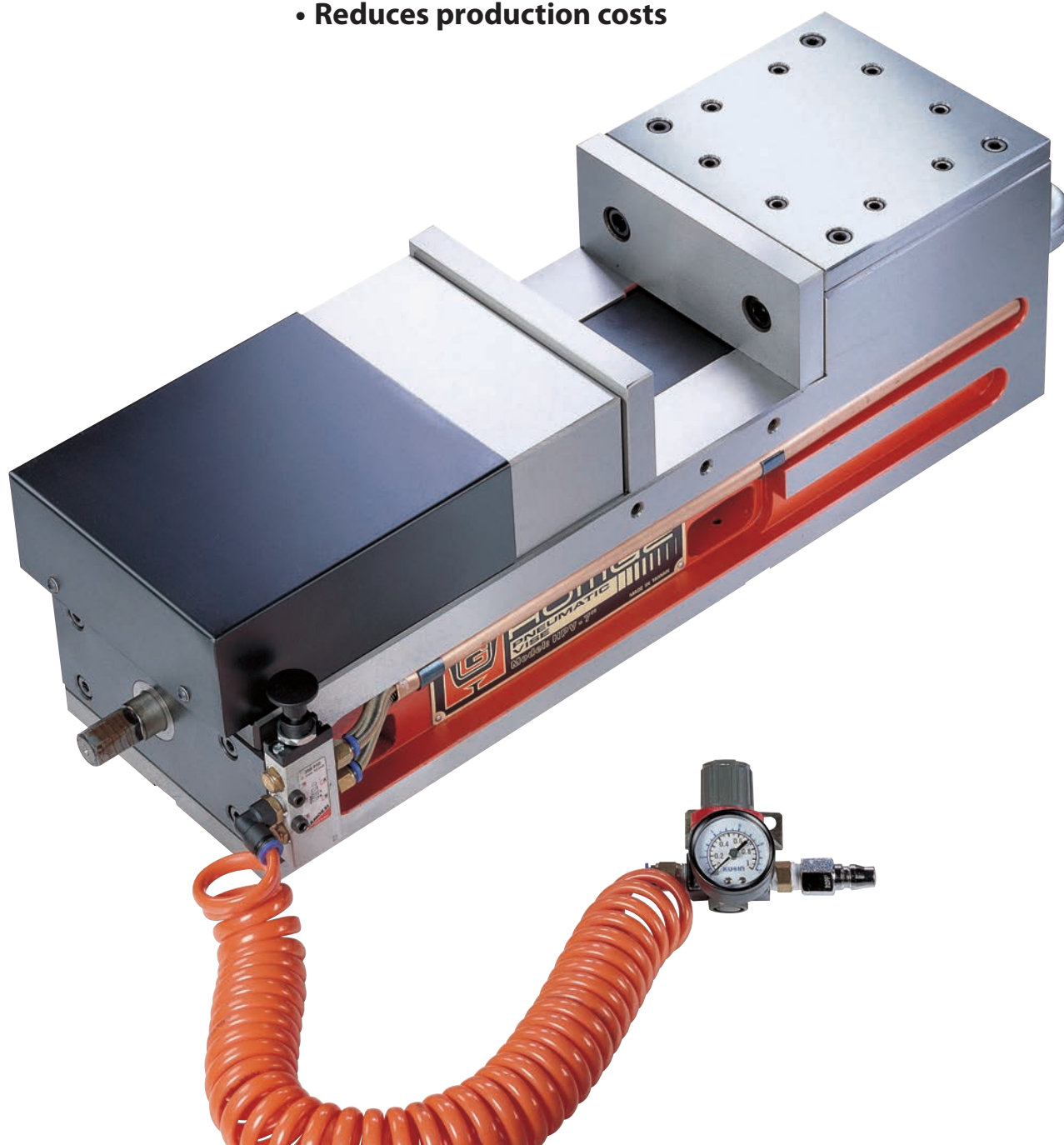
A-01~02

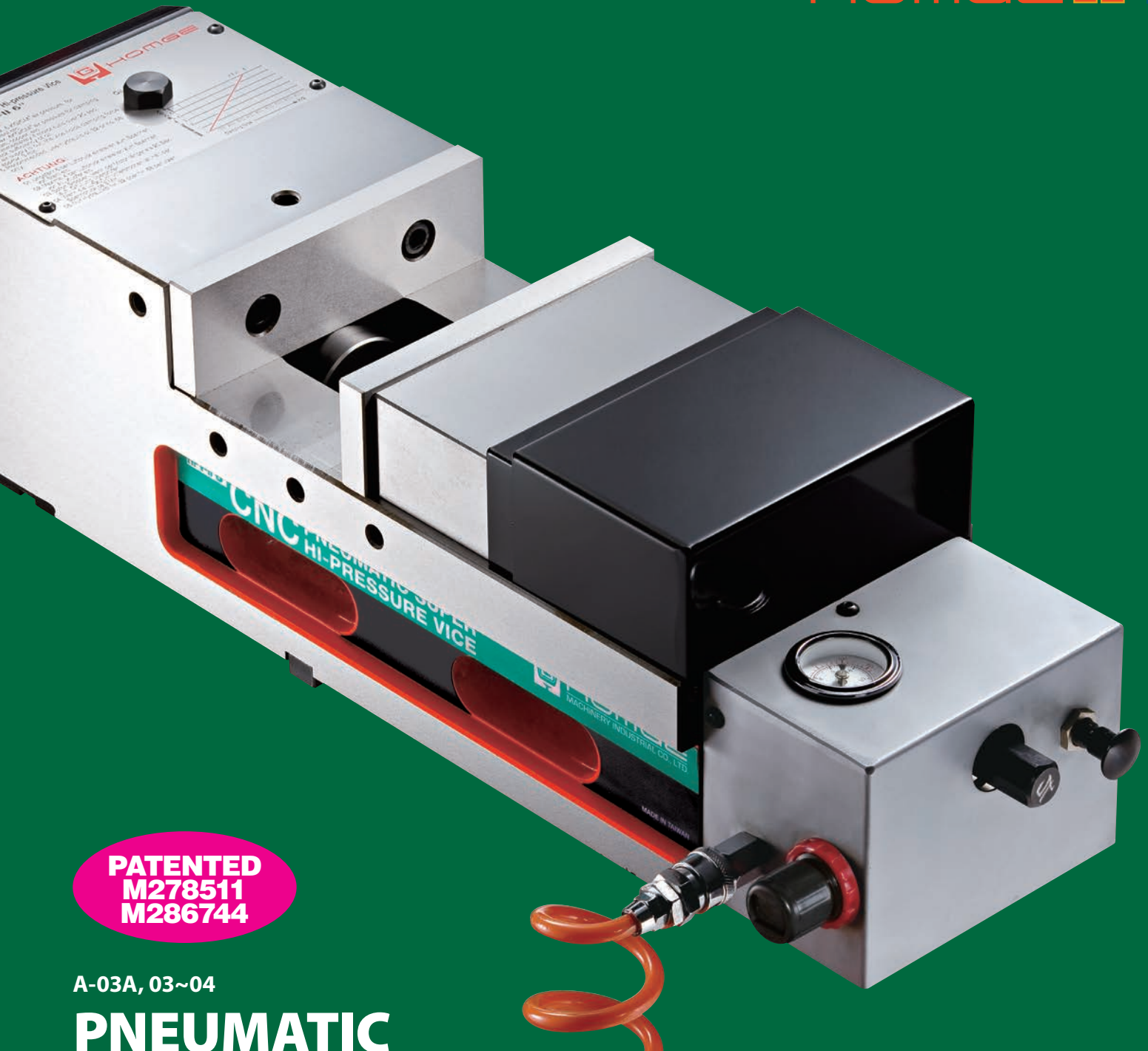
PATENTED
119131
117497

PNEUMATIC VICE

Model: HPV-5", 7"

- Quick operation
- Stable and rigid design
- High accuracy and repeatability
- Reduces production costs





PATENTED
M278511
M286744

A-03A, 03~04

PNEUMATIC SUPER HI-PRESSURE VICE

Model: HPV-II 5", 6", 8"

- Pneumatic power $6\text{kg}/\text{cm}^2$ can extremely reach clamping force of **0-8000KG**.
- Adjustable clamping force of 0-8000kg depends on the material of work-piece.
- Safety range is 6mm.

1. The new **Patented PNEUMATIC SYSTEM** is designed to enhance clamping force of 0-8000kg and can be adjusted depending on the material of work-piece.

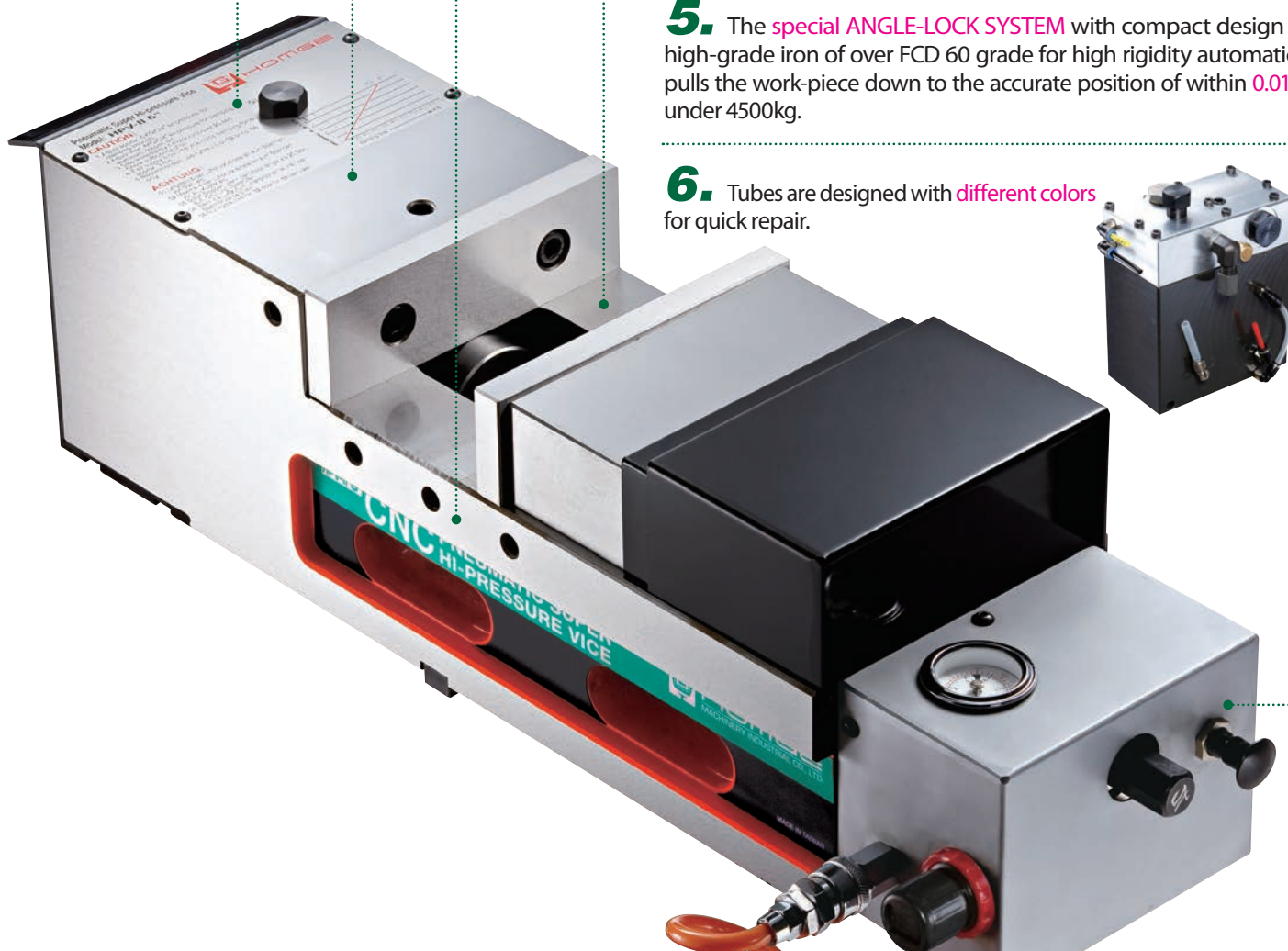
2. Vice body is made of Ductile Iron above FCD 60 grade for high precision and durability. With a force of 4500kg, the shape will deflect less than **0.01mm**.

3. Vice can be mounted horizontally or vertically.

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

5. 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 **0.01mm** under 4500kg.

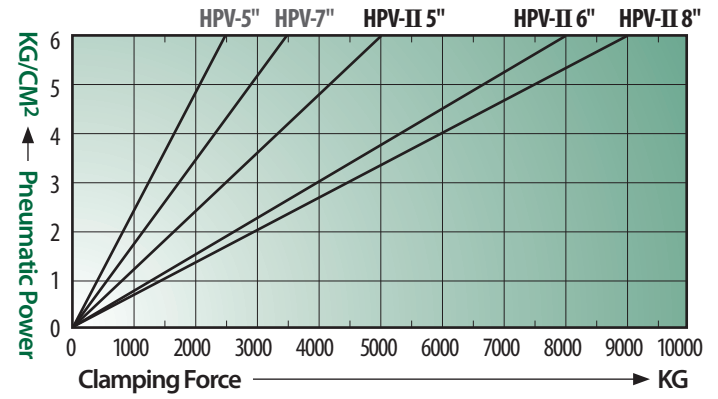
6. Tubes are designed with **different colors** for quick repair.



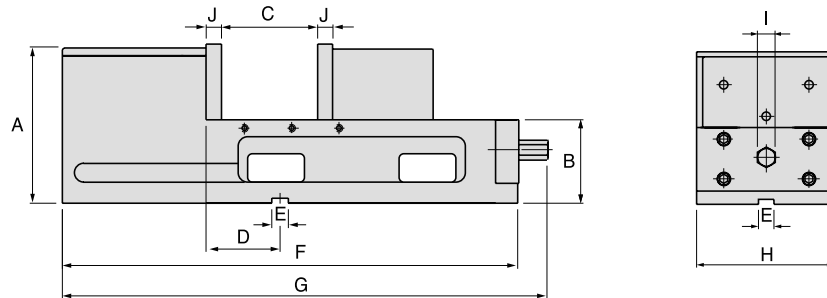
Fixed height so several vices can be used together. This vice is highly suitable for **precision mould making** on machining centers as well as **heavy duty machining** which require high clamping force with high accuracy.



Pneumatic power source 6kg/cm²



DIMENSIONS

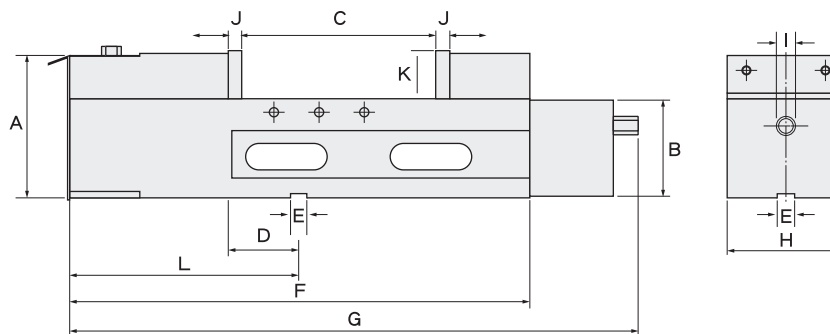


SPECIFICATIONS (Hardness: HRC 45°)

Unit: mm

NO	Model	A	B	C	D	E	F	G	H	I	J	Max. Clamping Force	Safety Range	Weight(kg)
A-01	HPV-5"	165	88±0.01	156	76±0.02	18	480	517	139	19	15	0-2500kg	4mm	42
A-02	HPV-7"	183	115±0.01	185	53±0.02	18	570	610	177	19	18	0-3500kg	4mm	83

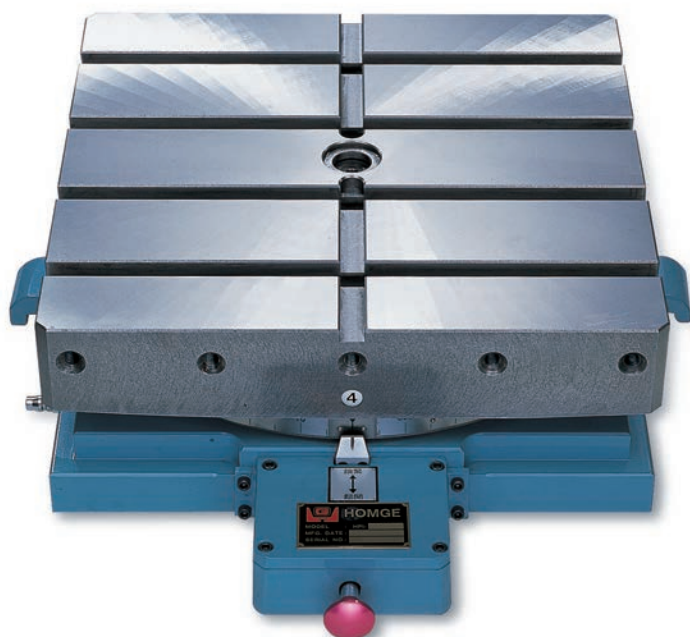
DIMENSIONS



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

Unit: mm

NO	Model	A	B	C	D	E	F	G	H	I
A-03A	HPV-II 5"	158	116±0.01	150	78±0.02	18	456	546	130	19
A-03	HPV-II 6"	163	110±0.01	190	78±0.02	18	497	587	160	19
A-04	HPV II 8"	163	110±0.01	330	107±0.02	18	657	747	200	19
NO	Model	J	K	L	Max. Clamping Force		Safety Range		Weight(kg)	
A-03A	HPV-II 5"	15	45	255	0-5000kg		6mm		42	
A-03	HPV-II 6"	15	53	255	0-8000kg		6mm		55	
A-04	HPV II 8"	18	53	275	0-9000kg		6mm		85	



A-05~09

PRECISION INDEX TABLE**Model: HPI-300, 450, 600, 800, 1000**

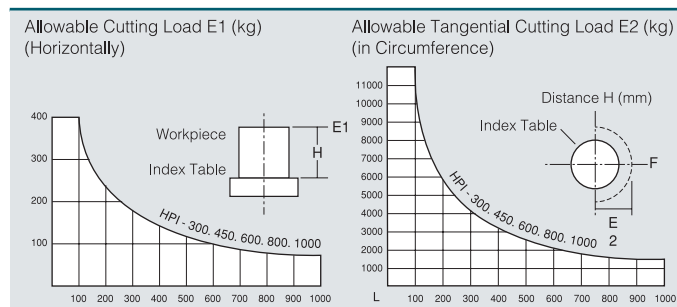
- The "HOMGE" PRECISION INDEXING TABLES are constructed with an AIR CYLINDER between the mating surfaces. This system reduces friction and even when heavy loads are applied to the table. It ensures that manual rotation is almost effortless, and the highest accuracy and repeatability are achieved.
- Rotation is very quick, taking less than 3 seconds to reposition the table.
- HEAVY DUTY CONSTRUCTION is built of (FCD 55) Ductile Iron suitable for heavy cutting.



Curved Coupling Gear is made of **HIGH GRADE BEARING STEEL** which provides rigidity and super high precision.

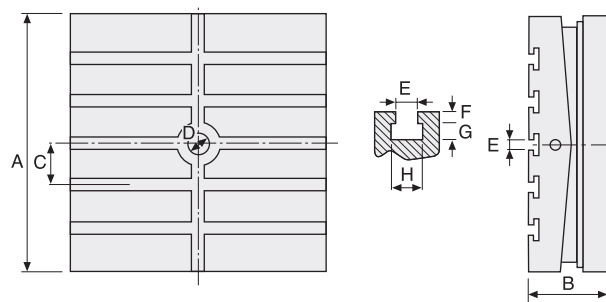
STANDARD ACCESSORIES**Supplied with these tables are:**

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

PERMISSIBLE CUTTING FORCE**SPECIFICATIONS**

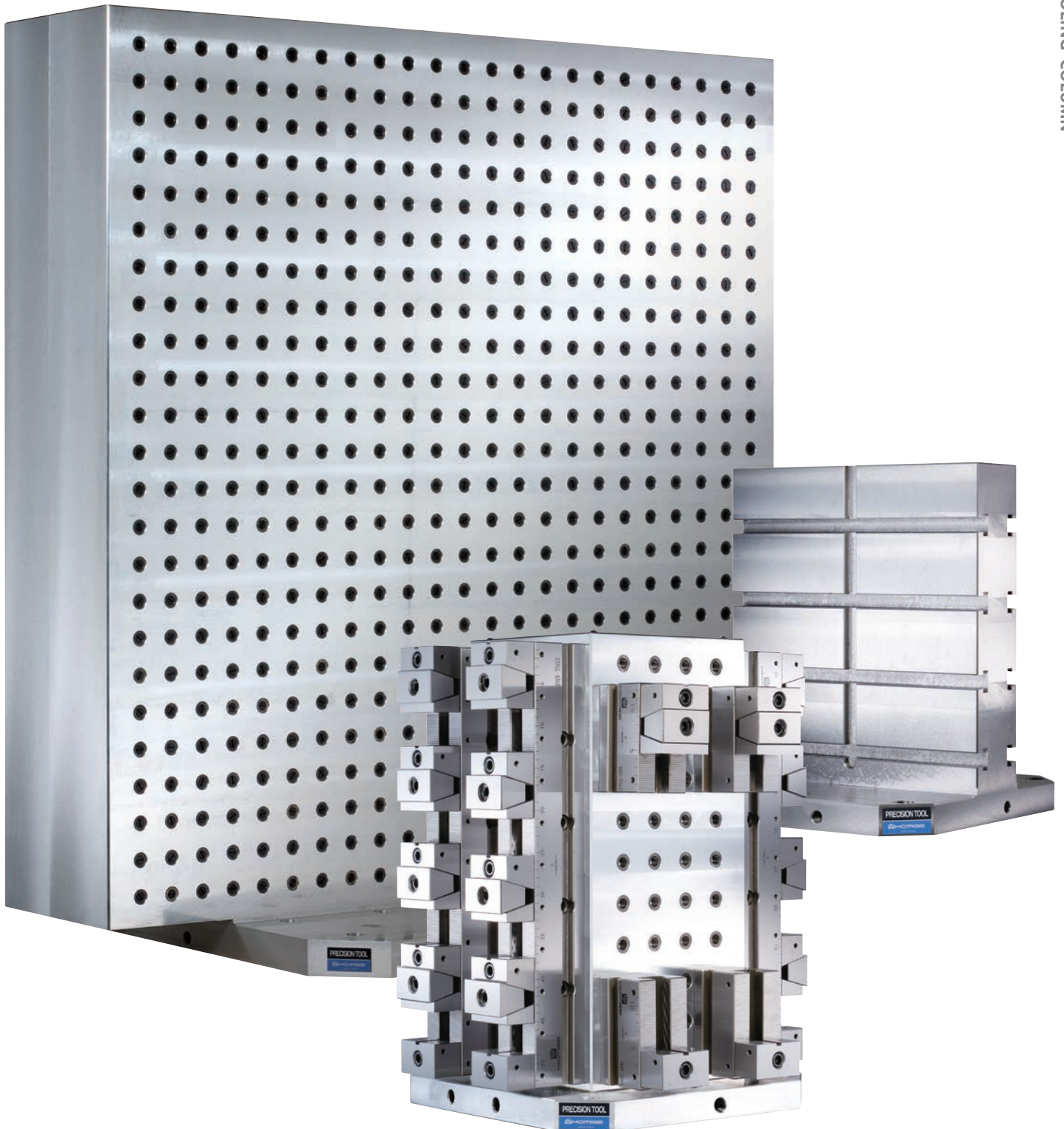
Unit: mm/inch

NO	A-05	A-06	A-07	A-08	A-09
Model	HPI-300	HPI-450	HPI-600	HPI-800	HPI-1000
1 LXW	300x300 (12"x12")	450x450 (18"x18")	600x600 (24"x24")	800x800 (32"x32")	1000x1000 (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")	60 (2 3/8")
4 T-Slot	14 (9/16")	18 (11/16")	20 (3/4")	22 (7/8")	22 (7/8")
5 Driving	Air Pressure 5~8kgs/cm ²				
6 Maximum load weight vertically in theory	1200 (2645 lb)	2400 (5921 lb)	3400 (7496 lb)	4500 (9920 lb)	6000 (13225 lb)
7 Allowable load weight (kg)	500 (1102 lb)	1000 (2205 lb)	2000 (4409 lb)	3000 (6614 lb)	5000 (11021 lb)
8 Number of division	Divisors of 24 (2, 3, 4, 6, 8, 12) Divisors of 72 (2, 3, 4, 6, 8, 12, 18, 24, 36, 72) and divisions by integers of 5° angles, custom-made orders for special dividing integers.				
9 Table rotation	clockwise and anticlockwise				
10 Division (second)	divide into 24 or 72 equal parts ± 3				
11 Weight (kg)	90	200	460	900	1200

**SPECIFICATIONS** (Materia: FCD 55 Ductile Iron)

Unit: mm/inch

NO	A-05		A-06		A-07		A-08		A-09	
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	160	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	60	2 3⁄8
E	14	9⁄16	18	1 1⁄16	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 3⁄16	34	1 3⁄8	38	1 1⁄2	38	1 1⁄2



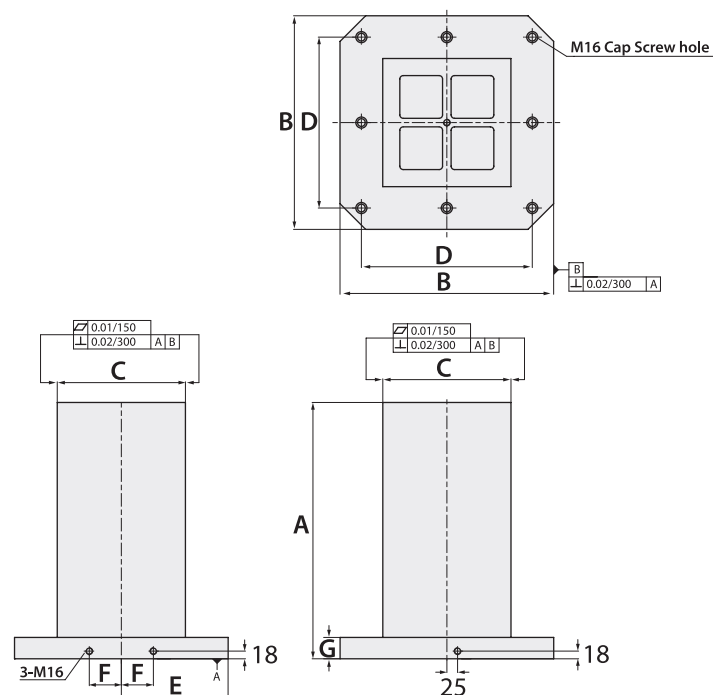


M/C SQUARE TOOLING COLUMN

- Heat treated (Normalized)
- Application: Good for horizontal M/C

FEATURES:

Free to finish an actual required hole pattern or your special jig.



SPECIFICATIONS (Material: FCD 50 / Aluminum A356)

Unit: mm

Model	A	B	C	D	E	F	G	Mounting Holes	Weight (kg)	
									FCD50	A356
HSF-400400-0500	500	400	250	320	200	55	50	4	166	65
HSF-500500-0600	600	500	300	400	250	75	50	8	253	100
HSF-630630-0700	700	630	350	500	315	100	50	8	371	146
HSF-800800-0800	800	800	500	640	400	135	50	8	607	240

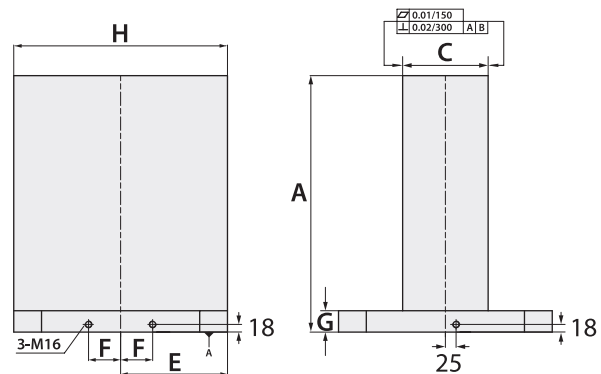
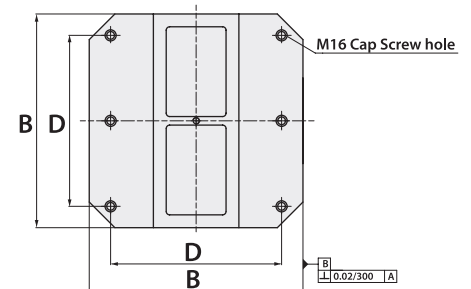


M/C DOUBLE SIDED TOOLING COLUMN

- Heat treated (Normalized)
- Application: Good for horizontal M/C

FEATURES:

Free to finish an actual required hole pattern or your special jig.



SPECIFICATIONS (Material: FCD 50 / Aluminum A356)

Unit: mm

Model	A	B	C	D	E	F	G	H	Mounting Holes	Weight (kg)	
										FCD50	A356
HDF-400400-0500	500	400	150	320	200	55	50	400	4	168	73
HDF-500500-0600	600	500	200	400	250	75	50	500	6	282	108
HDF-630630-0700	700	630	250	500	315	100	50	630	6	444	170
HDF-800800-0800	800	800	300	640	400	135	50	800	6	646	247

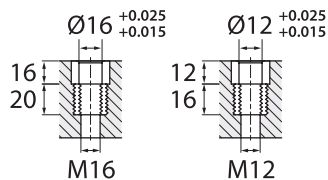


M/C SQUARE TOOLING COLUMN

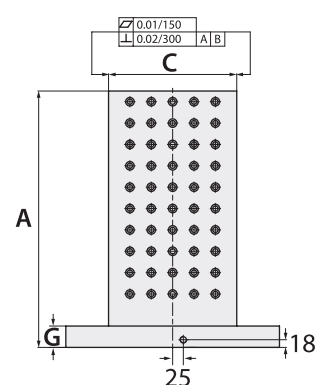
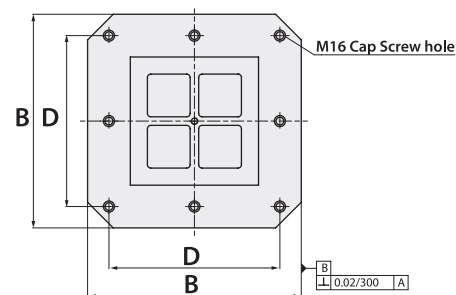
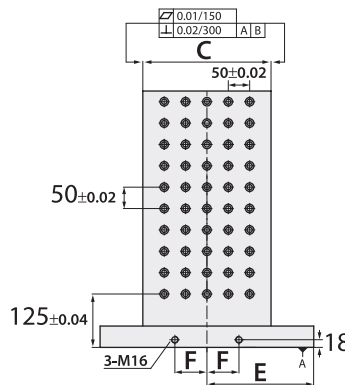
- Heat treated (Normalized)
- Application: Good for horizontal M/C

FEATURES:

Locked by MTP locating holes.
Using the assorted, rationalized jig component,
you can quickly build up to meet
requirement jig.



T MTP SECTION



Unit: mm

SPECIFICATIONS (Material: FCD 50 / Aluminum A356)

Model	A	B	C	D	E	F	G	T	No. of MTP Holes	Mounting Holes	Weight (kg)	
											FCD50	A356
HSH-400400-0500-12	500	400	250	320	200	55	50	Ø12 M12	128	4	161	63
HSH-500500-0600-12	600	500	300	400	250	75	50	Ø12 M12	200	8	246	94
HSH-630630-0700-12	700	630	350	500	315	100	50	Ø12 M12	288	8	361	138
HSH-800800-0800-12	800	800	500	640	400	135	50	Ø12 M12	504	8	589	225
HSH-400400-0500-16	500	400	250	320	200	55	50	Ø16 M16	128	4	158	60
HSH-500500-0600-16	600	500	300	400	250	75	50	Ø16 M16	200	8	241	92
HSH-630630-0700-16	700	630	350	500	315	100	50	Ø16 M16	288	8	353	135
HSH-800800-0800-16	800	800	500	640	400	135	50	Ø16 M16	504	8	576	220

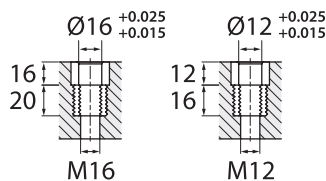


M/C DOUBLE SIDED TOOLING COLUMN

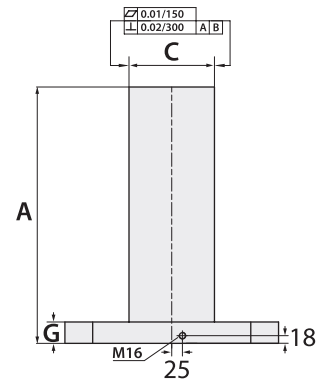
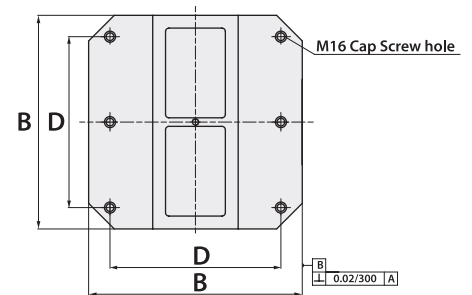
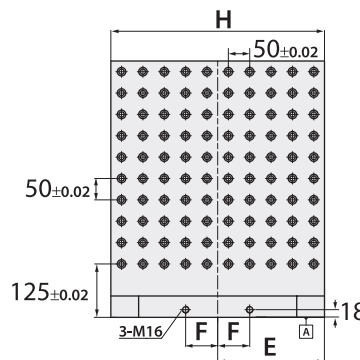
- Heat treated (Normalized)
- Application: Good for horizontal M/C

FEATURES:

Locked by MTP locating holes.
Using the assorted, rationalized jig component, you can quickly build up to meet requirement jig.



T MTP SECTION



SPECIFICATIONS (Material: FCD 50 / Aluminum A356)

Unit: mm

Model	A	B	C	D	E	F	G	H	T		No.of MTP Holes	Mounting Holes	Weight (kg)	
													FCD50	A356
HDH-400400-0500-12	500	400	150	320	200	55	50	400	ø12	M12	128	4	163	62
HDH-500500-0600-12	600	500	200	400	250	75	50	500	ø12	M12	200	6	275	105
HDH-630630-0700-12	700	630	250	500	315	100	50	630	ø12	M12	288	6	434	166
HDH-800800-0800-12	800	800	300	640	400	135	50	800	ø12	M12	420	6	631	241
HDH-400400-0500-16	500	400	150	320	200	55	50	400	ø16	M16	128	4	160	61
HDH-500500-0600-16	600	500	200	400	250	75	50	500	ø16	M16	200	6	269	102
HDH-630630-0700-16	700	630	250	500	315	100	50	630	ø16	M16	288	6	426	163
HDH-800800-0800-16	800	800	300	640	400	135	50	800	ø16	M16	420	6	620	237



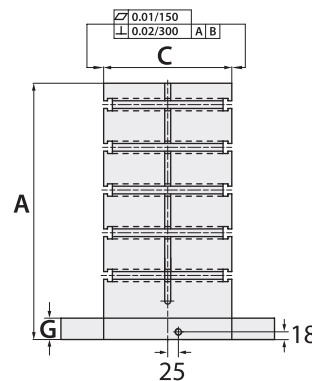
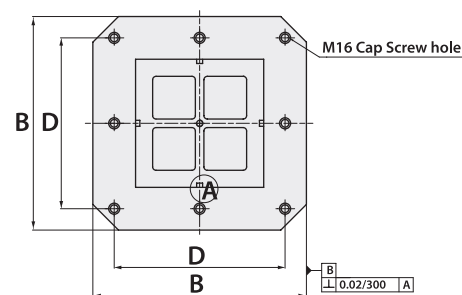
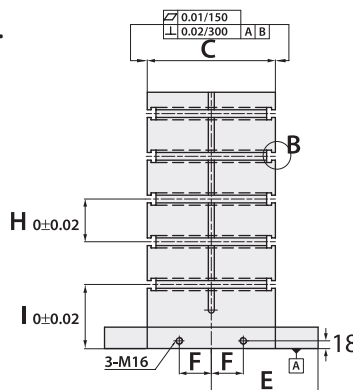
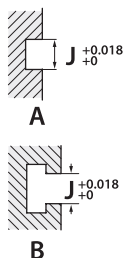
M/C SQUARE TOOLING COLUMN

- Heat treated (Normalized)
- Application: Good for horizontal M/C

FEATURES:

Locked by T-slot.

Using the assorted, rationalized jig component, you can quickly build up to meet requirement jig.



SPECIFICATIONS (Material: FCD 50 / Aluminum A356)

Unit: mm

Model	A	B	C	D	E	F	G	H	I	J	Weight (kg)	
											FCD50	A356
HST-400400-0500-14	500	400	250	320	200	55	50	100	150	14	153	58
HST-500500-0600-14	600	500	300	400	250	75	50	100	150	14	233	89
HST-630630-0700-14	700	630	350	500	315	100	50	125	150	14	348	133
HST-800800-0800-14	800	800	500	640	400	135	50	150	150	14	574	220
HST-400400-0500-18	500	400	250	320	200	55	50	100	150	18	146	56
HST-500500-0600-18	600	500	300	400	250	75	50	100	150	18	224	85
HST-630630-0700-18	700	630	350	500	315	100	50	125	150	18	337	129
HST-800800-0800-18	800	800	500	640	400	135	50	150	150	18	559	214



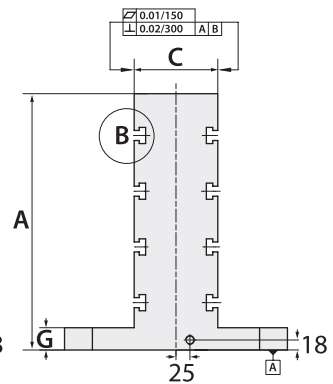
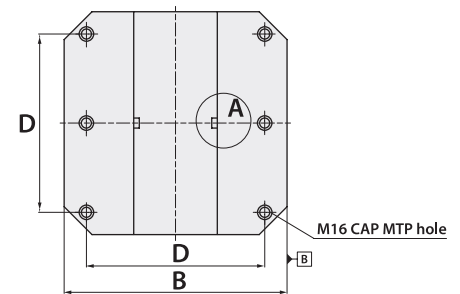
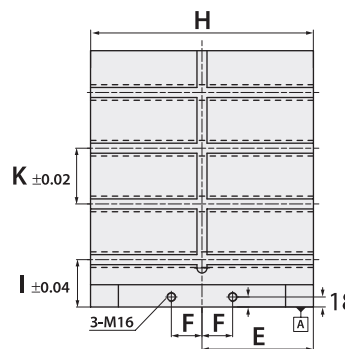
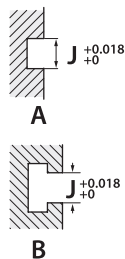
M/C DOUBLE SIDED TOOLING COLUMN

- Heat treated (Normalized)
- Application: Good for horizontal M/C

FEATURES:

Locked by T-slot.

Using the assorted, rationalized jig component, you can quickly build up to meet requirement jig.



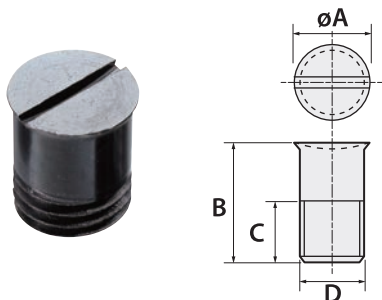
SPECIFICATIONS (Material: FCD 50 / Aluminum A356)

Unit: mm

Model	A	B	C	D	E	F	G	H	I	J	K	Weight (kg)	
												FCD50	A356
HDT-400400-0500-14	500	400	150	320	200	55	50	400	150	14	100	157	60
HDT-500500-0600-14	600	500	200	400	250	75	50	500	150	14	100	265	101
HDT-630630-0700-14	700	630	250	500	315	100	50	630	150	14	125	423	161
HDT-800800-0800-14	800	800	300	640	400	135	50	800	150	14	150	620	237
HDT-400400-0500-18	500	400	150	320	200	55	50	400	150	18	100	152	58
HDT-500500-0600-18	600	500	200	400	250	75	50	500	150	18	100	258	98
HDT-630630-0700-18	700	630	250	500	315	100	50	630	150	18	125	413	158
HDT-800800-0800-18	800	800	300	640	400	135	50	800	150	18	150	607	232

OPTIONAL ACCESSORIES:

PROTECTION PLUG

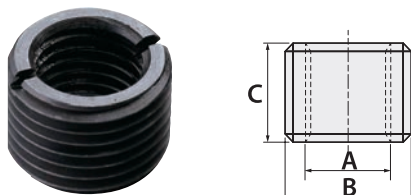


SPECIFICATIONS (Material: S45C)

Unit: mm

Model	A	B	C	D (Thread)
HPP-12-JIS	14	22	11	M12
HPP-16-JIS	18	25	13	M16

THREADED INSERT

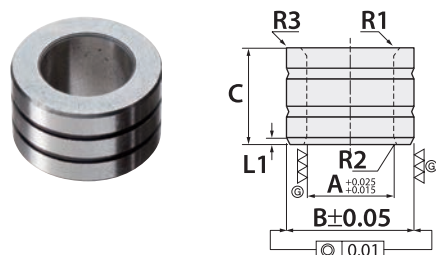


SPECIFICATIONS (Material: S45C. Hardness: HRC 32°~35°)

Unit: mm

Model	A	B	C	Weight (kg)
HTI-0612-10	M6x10	M12x1.5	10	0.005
HTI-0814-12	M8x1.25	M14x1.5	12	0.008
HTI-1016-15	M10x1.5	M16x1.5	15	0.010
HTI-1218-16	M12x1.75	M18x2.0	16	0.015
HTI-1420-18	M14x2.0	M20x2.0	18	0.030
HTI-1622-20	M16x2.0	M22x2.0	20	0.025
HTI-2028-25	M20x2.0	M28x2.0	25	0.050

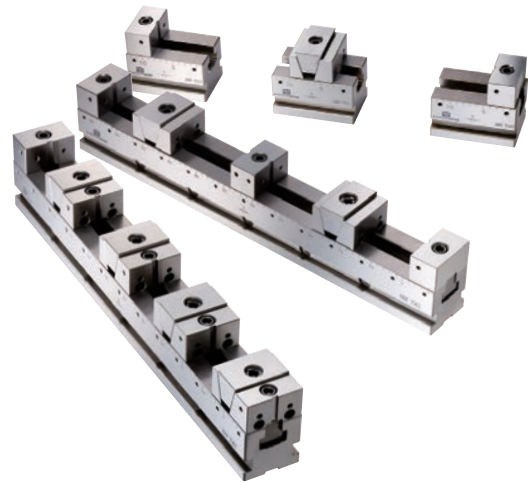
POSITIONING BUSHING



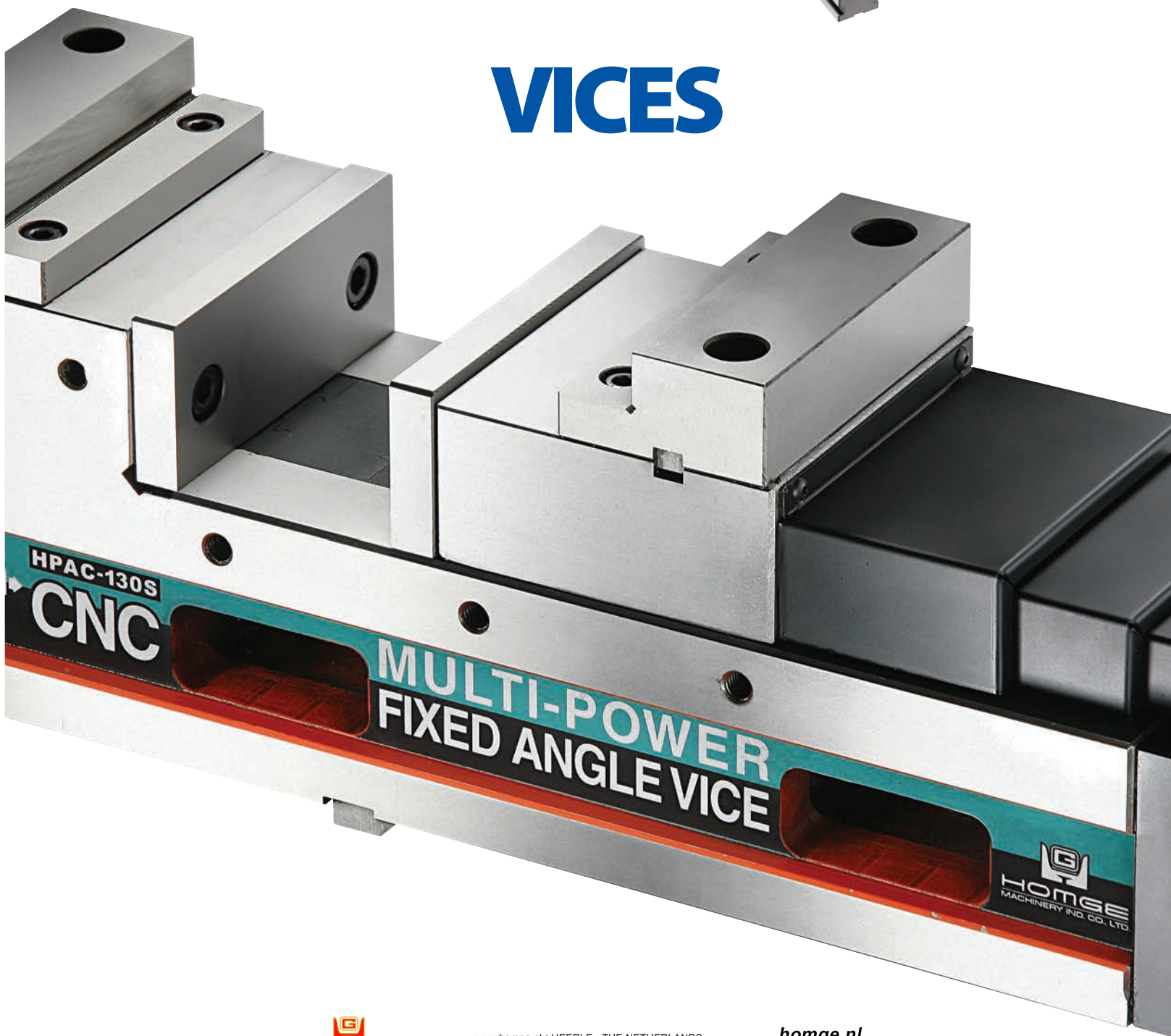
SPECIFICATIONS (Material: SUJ2. Hardness: HRC 60°)

Unit: mm

Model	A	B	C	R1	R2	R3	L1	Weight (kg)
HPB-0613-10	ø6	ø13	10	1	0.5	0.5	1.25	0.007
HPB-0815-10	ø8	ø15	10	1	0.5	0.5	1.25	0.009
HPB-1018-12	ø10	ø18	12	1.5	1	0.5	1.5	0.015
HPB-1220-12	ø12	ø20	12	1.5	1	0.5	1.5	0.017
HPB-1423-16	ø14	ø23	16	1.5	1	0.5	1.5	0.030
HPB-1523-16	ø15	ø23	16	1.5	1	0.5	1.5	0.028
HPB-1623-16	ø16	ø23	16	1.5	1	0.5	1.5	0.025
HPB-1826-20	ø18	ø26	20	2	1.5	0.5	2.5	0.040
HPB-2030-20	ø20	ø30	20	2	1.5	0.5	2.5	0.060
HPB-2230-20	ø22	ø30	20	2	1.5	0.5	2.5	0.050
HPB-2535-20	ø25	ø35	20	2	1.5	0.5	2.5	0.070
HPB-3042-25	ø30	ø42	25	2	1.5	0.5	2.5	0.130
HPB-4055-30	ø40	ø55	30	3	2	1	3	0.255
HPB-5070-30	ø50	ø70	30	3	2	1	3	0.430



VICES



PATENTED
216009
M266131

V-01~12

VICE IN ROW

Model: HRV-50, 75, 100

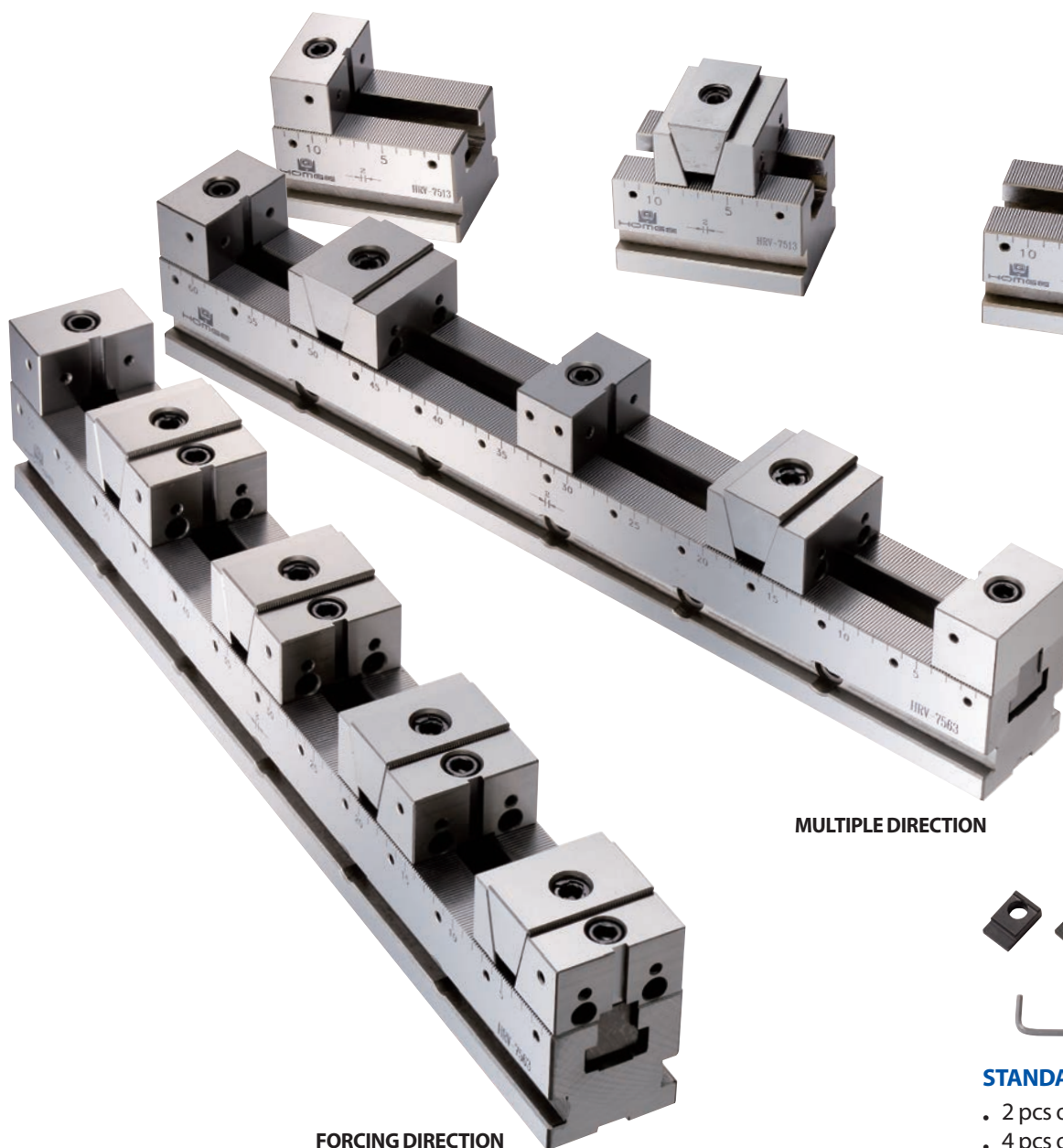
Adjustable vice can clamp working piece in square, round or irregular shapes. It enhances machine revolving rate and shortens time of changing molds.

Saves cost.

FEATURES:

HRV-series' VICE IN-ROW is a kind of multiple clamp vice. Full set of this vice is made of **Tool Steel** with heat treatment more than **HRC 60°** of Hardness and then ground precisely to ensure durability. It enlarges clamping dimension. No matter what shape of working piece, such as square, round, cylindrical or any irregular shapes, it can be positioned quickly. Precision gear locating datum plane is adjustable so working piece can be fixed easily.

This vice is suitable for CNC Machining Centers and Surface Grinder, ...etc.



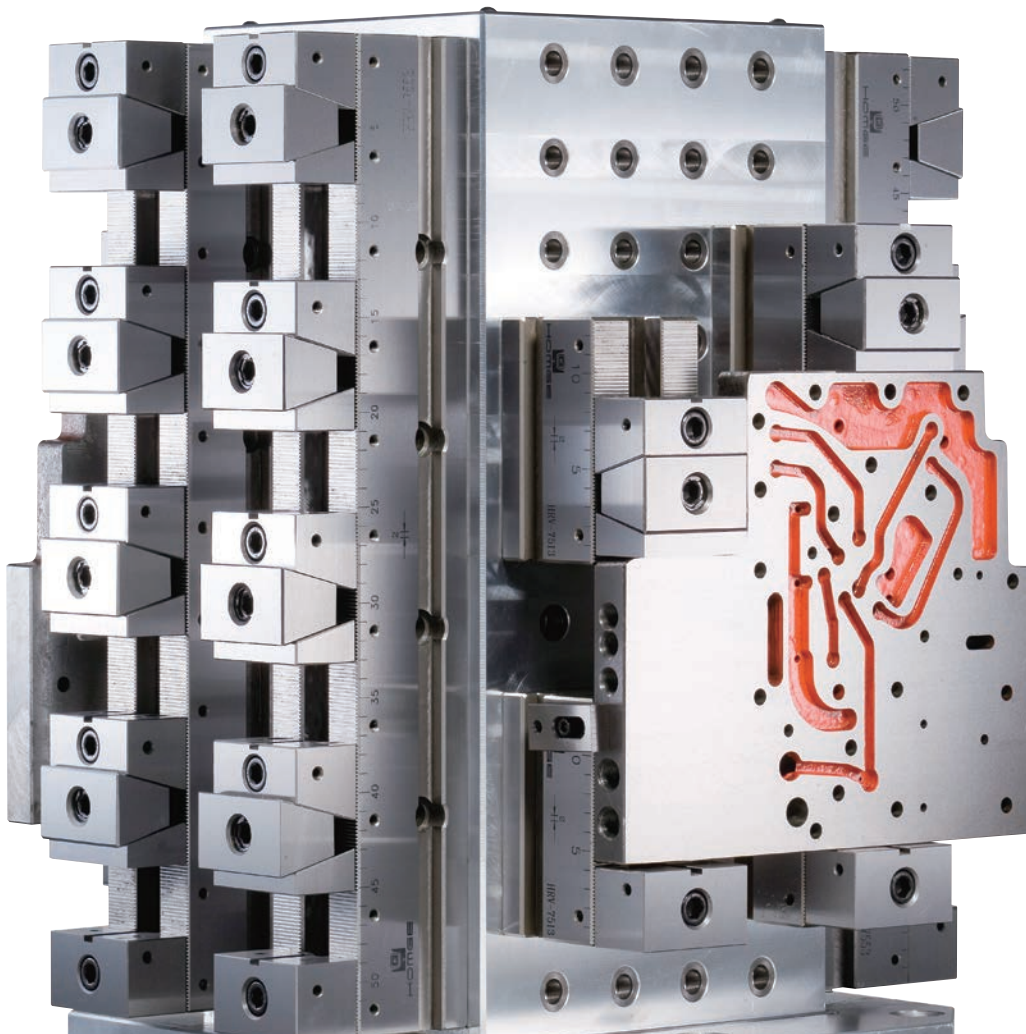
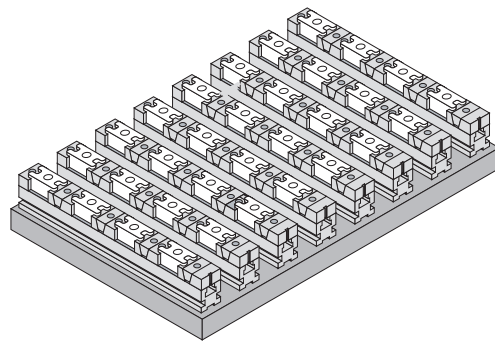
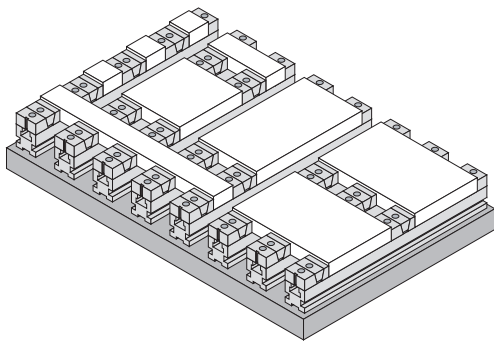
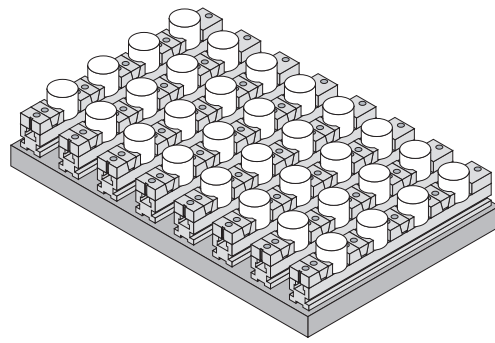
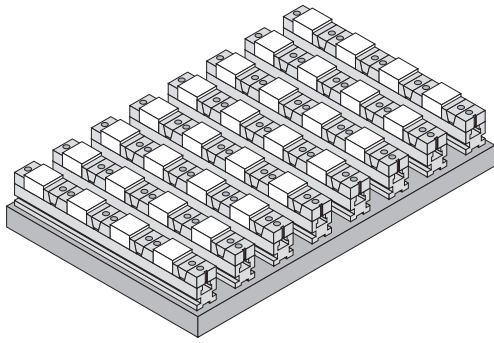
MULTIPLE DIRECTION

FORCING DIRECTION

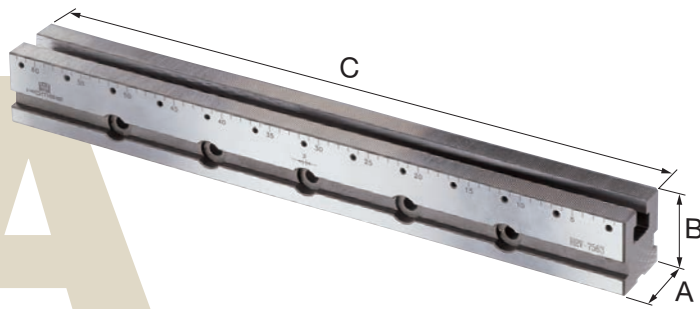


STANDARD ACCESSORIES:

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



ASSEMBLED PARTS:



MAIN BODY

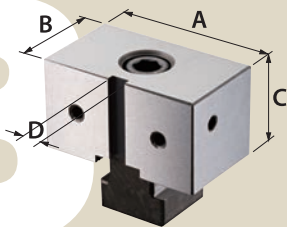
Unit: mm

Model	A	B	C
HRV-50A30	50	50	300
HRV-50A40	50	50	400
HRV-50A50	50	50	500
HRV-50A60	50	50	600
HRV-50A70	50	50	700
HRV-75A43	75	75	430
HRV-75A53	75	75	530
HRV-75A63	75	75	630
HRV-75A73	75	75	730
HRV-100A55	100	75	550
HRV-100A65	100	75	650
HRV-100A75	100	75	750

For Forcing Direction

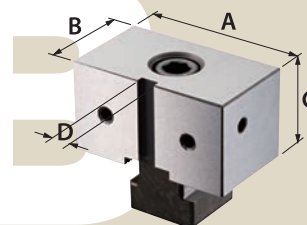
For Multiple Direction

Unit: mm



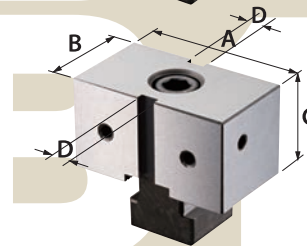
FIXED MOUTHPIECE SET

Model	A	B	C	D
HRV-50B	48	35	25	8
HRV-75B	73	42	40	8
HRV-100B	98	55	50	8



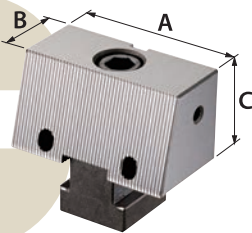
FIXED MOUTHPIECE SET

Model	A	B	C	D
HRV-50B	48	35	25	8
HRV-75B	73	42	40	8
HRV-100B	98	55	50	8



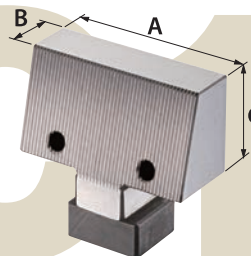
FIXED MOUTHPIECE SET

Model	A	B	C	D
HRV-50B1	48	35	25	8
HRV-75B1	73	42	40	8
HRV-100B1	98	55	50	8



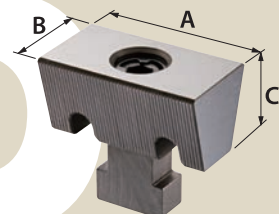
SINGLE BEVEL FIXED MOUTHPIECE SET

Model	A	B	C
HRV-50C	48	27	25
HRV-75C	73	30	40
HRV-100C	98	35	50



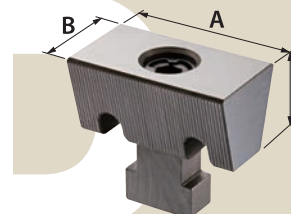
SINGLE BEVEL FIXED MOUTHPIECE SET

Model	A	B	C
HRV-50C1	48	20	25
HRV-75C1	73	20	40
HRV-100C1	98	28	50



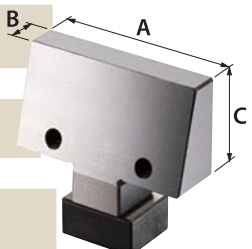
WEDGE SET

Model	A	B	C
HRV-50D	48	26	21
HRV-75D	73	42	36
HRV-100D	98	50	45



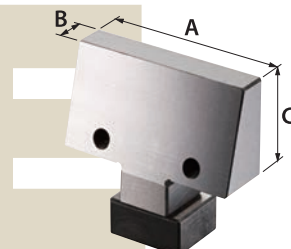
WEDGE SET

Model	A	B	C
HRV-50D	48	26	21
HRV-75D	73	42	36
HRV-100D	98	50	45



SINGLE BEVEL MOVEABLE MOUTHPIECE SET

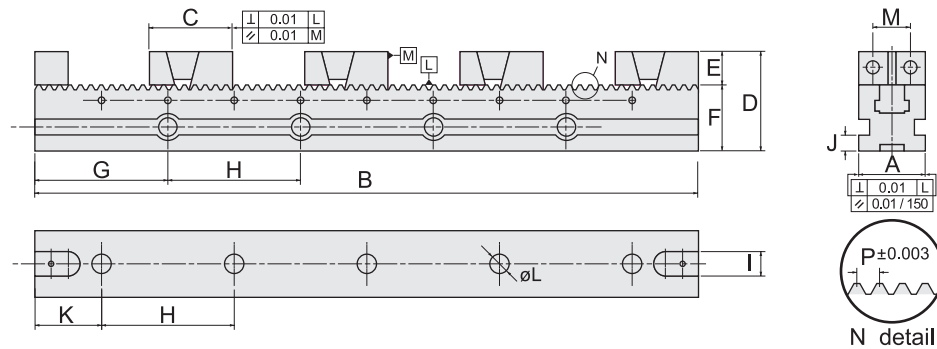
Model	A	B	C
HRV-50E	48	13	25
HRV-75E	73	12	40
HRV-100E	98	23	50



SINGLE BEVEL MOVEABLE MOUTHPIECE SET

Model	A	B	C
HRV-50E	48	13	25
HRV-75E	73	12	40
HRV-100E	98	23	50

DIMENSIONS



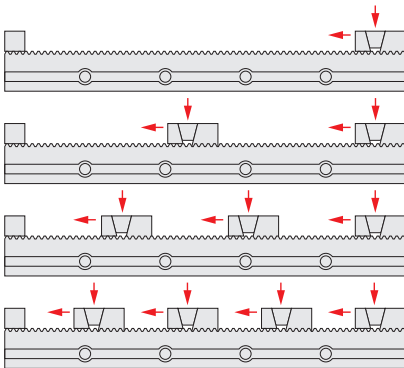
SPECIFICATIONS (Material: Tool steel. Hardness: over HRC 60°)

Unit: mm

NO	Model	A	B	C	D	E	F	G	H	I	J	K	L	M	P	KG
V-01	HRV-5030	50	300	66	75	25	50	70	80	18	10	30	14	24	1.5	7
V-02	HRV-5040		400					80				40				9
V-03	HRV-5050		500					90				50				10
V-04	HRV-5060		600					100				60				11
V-05	HRV-5070		700					110				70				12
V-06	HRV-7543	75	430	85	115	40	75	115	100	18	17	65	14	40	2	20
V-07	HRV-7553		530					115				65				25.5
V-08	HRV-7563		630					115				65				29.5
V-09	HRV-7573		730					65				115				33.5
V-10	HRV-10055	100	550	108	125	50	75	75	100	18	17	125	14	60	2.5	39.5
V-11	HRV-10065		650					125				75				44
V-12	HRV-10075		750					125				75				49

FORCING DIRECTION

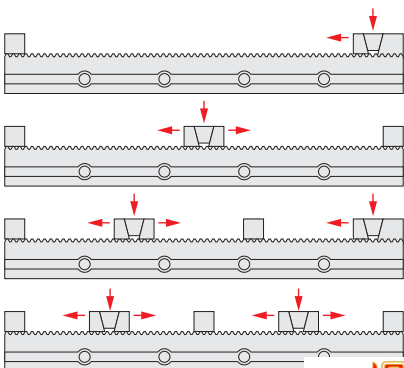
Maximum range of the working pieces to be clamped



NO	Model				
V-01	HRV-5030	199	66	22	—
V-02	HRV-5040	299	116	55	25
V-03	HRV-5050	399	166	89	50
V-04	HRV-5060	499	216	122	75
V-05	HRV-5070	599	266	155	100
V-06	HRV-7543	300	109	44	—
V-07	HRV-7553	400	159	77	49
V-08	HRV-7563	500	209	111	62
V-09	HRV-7573	600	259	144	87
V-10	HRV-10055	390	142	58	—
V-11	HRV-10065	490	192	92	42
V-12	HRV-10075	590	242	125	67

MULTIPLE DIRECTION

Maximum range of the working pieces to be clamped

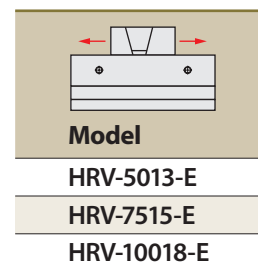
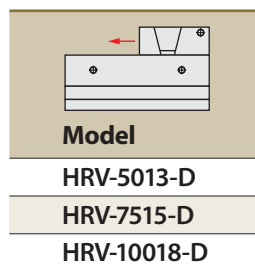
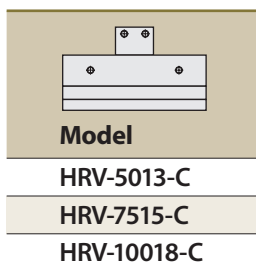
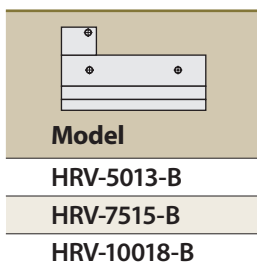
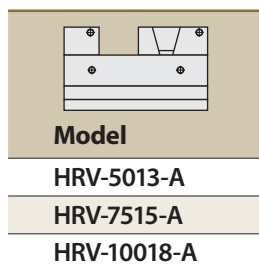
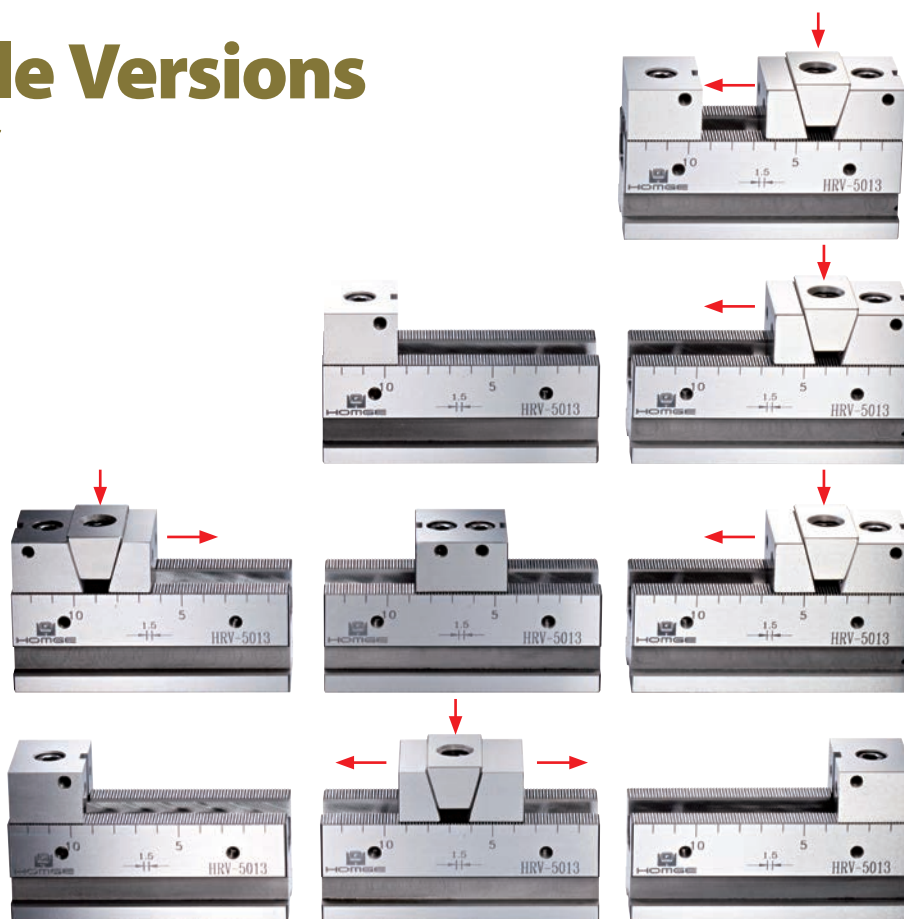


NO	Model				
V-01	HRV-5030	199	90	34	—
V-02	HRV-5040	299	140	68	43
V-03	HRV-5050	399	190	100	68
V-04	HRV-5060	499	240	134	93
V-05	HRV-5070	599	290	168	118
V-06	HRV-7543	300	130	63	51
V-07	HRV-7553	400	180	96	76
V-08	HRV-7563	500	230	129	101
V-09	HRV-7573	600	280	163	126
V-10	HRV-10055	390	170	78	45
V-11	HRV-10065	490	220	112	71
V-12	HRV-10075	590	270	145	96

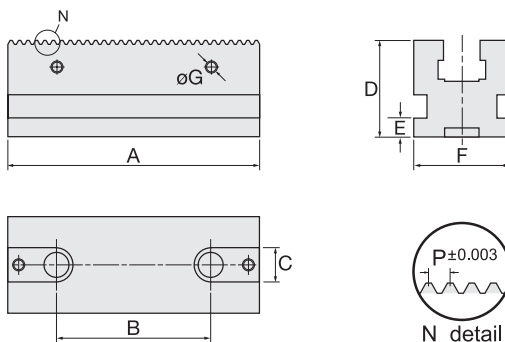
HRV Adjustable Versions

*Various combinations for
Multiple usages*

Model: HRV-5013 (A,B,C,D,E)
HRV-7515 (A,B,C,D,E)
HRV-10018 (A,B,C,D,E)



DIMENSIONS



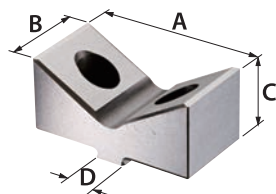
SPECIFICATIONS

Unit: mm

Model	A	B	C	D	E	F	G	P	Weight (kg)
HRV-5013	130	80	18	50	10	50	M6	1.5	2
HRV-7515	150	100	18	75	17	75	M6	2	4
HRV-10018	180	100	18	75	17	100	M6	2.5	7

OPTIONAL ACCESSORIES:

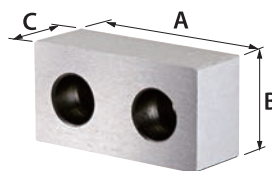
"V" JAW (FOR FIXED JAW)



Unit: mm

Model	A	B	C	Dh7
HRV-50-VJ	48	25	21	8
HRV-75-VJ	73	40	32	8
HRV-100-VJ	98	50	44	8

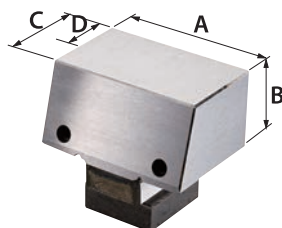
FIXED SOFT JAW (FOR MOVEABLE JAW)



Unit: mm

Model	A	B	C
HRV-50-FMJ	48	25	16
HRV-75-FMJ	73	40	19
HRV-100-FMJ	98	50	19

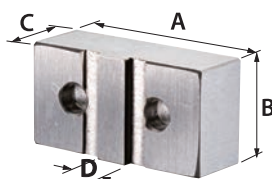
MOVEABLE SOFT JAW



Unit: mm

Model	A	B	C	D
HRV-50-MSJ	48	25	28	20
HRV-75-MSJ	73	40	30	20
HRV-100-MSJ	98	50	29	20

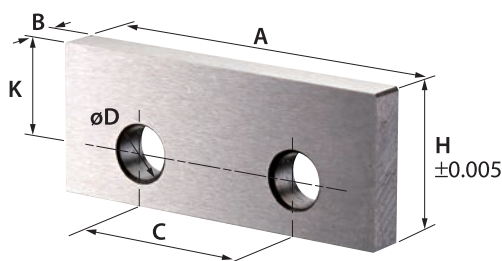
FIXED SOFT JAW (FOR FIXED JAW)



Unit: mm

Model	A	B	C	Dh7
HRV-50-FFJ	48	25	16	8
HRV-75-FFJ	73	40	19	8
HRV-100-FFJ	98	50	19	8

SUPPORTING BLOCK

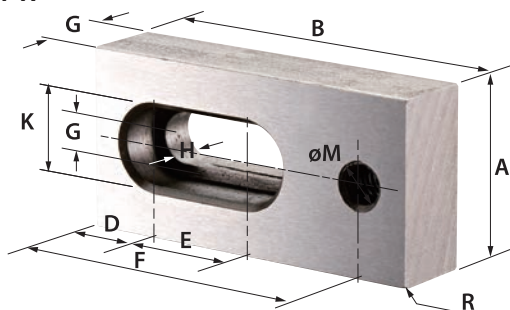


Unit: mm

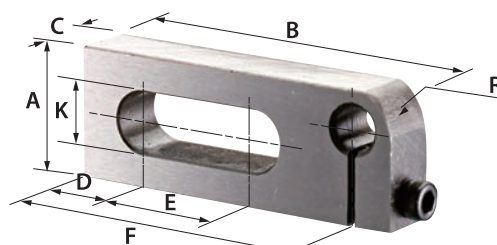
Model	A	B	C	D	H	L
SB-50A	47.5	3	24	6.8	17	13
SB-50B		5			20	
SB-50C		5			22	
SB-75A	74.5	3	40	6.8	25	20
SB-75B		5			30	
SB-75C		5			35	
SB-75D		5			37	
SB-100A	97.5	5	60	6.8	35	25
SB-100B		5			40	
SB-100C		5			45	
SB-100D		5			47	

DATUM PLATE (FOR HRV-50, 75, 100)

Model: DP-A



Model: DP-B



Unit: mm

Model	A	B	C	D	E	F	G	H	K	M	R
DP-A	25	50	12	10	15	43	6.5	7	11	M6	1
DP-B	19	50	9	10	15	43	6.5	7	11	M6	5

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142711
M278511
M287204
M320459
M338717

V-13~15

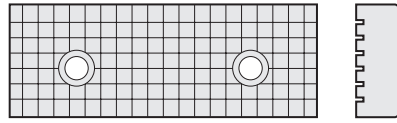
MULTI-POWER CNC SUPER VICE

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

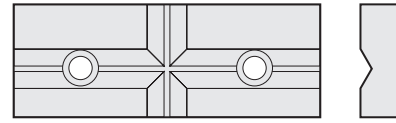


- Shortest Length
with Big Jaw Opening
- Extremely High Accuracy
and Repeatability
- Special MULTI-POWER design
enhances clamping force
of **0~8000KG**

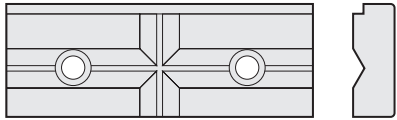
OPTIONAL ACCESSORIES:



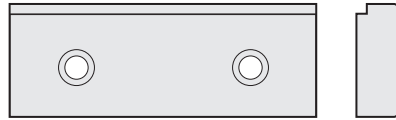
1) Cross Grooved Jaws



2) 'V' Jaws

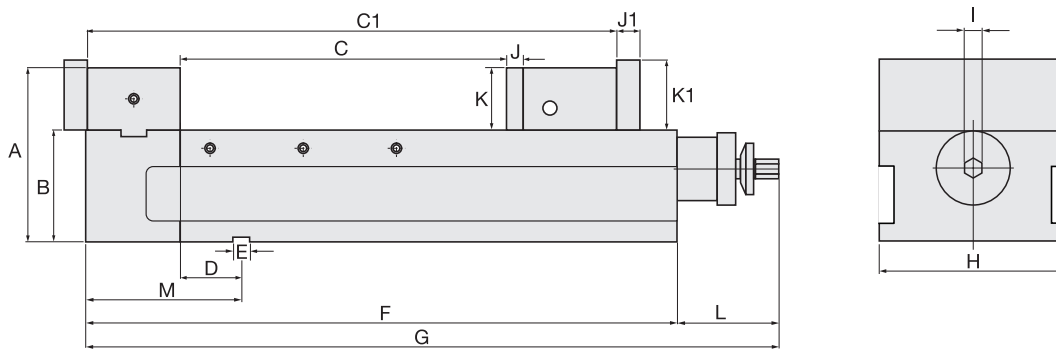


3) Combined Jaws



4) Step Jaws

DIMENSIONS



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

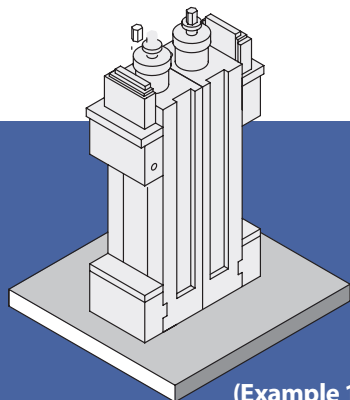
Unit: mm

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

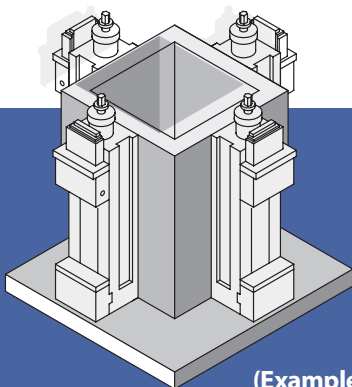
PATENTED
142711
M278511
M287204
M320459
M338717

MULTI-POWER CNC SUPER VICE

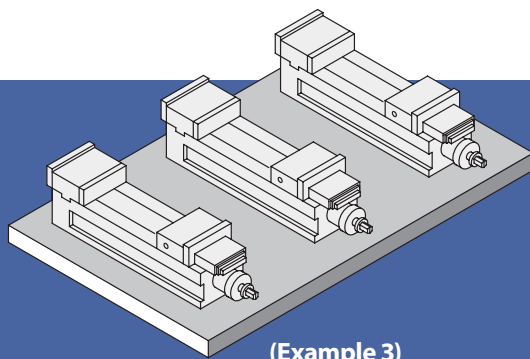
Model: HPAQ-160, 200, 250, 160L, 200L



(Example 1)



(Example 2)



(Example 3)

CE

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.*

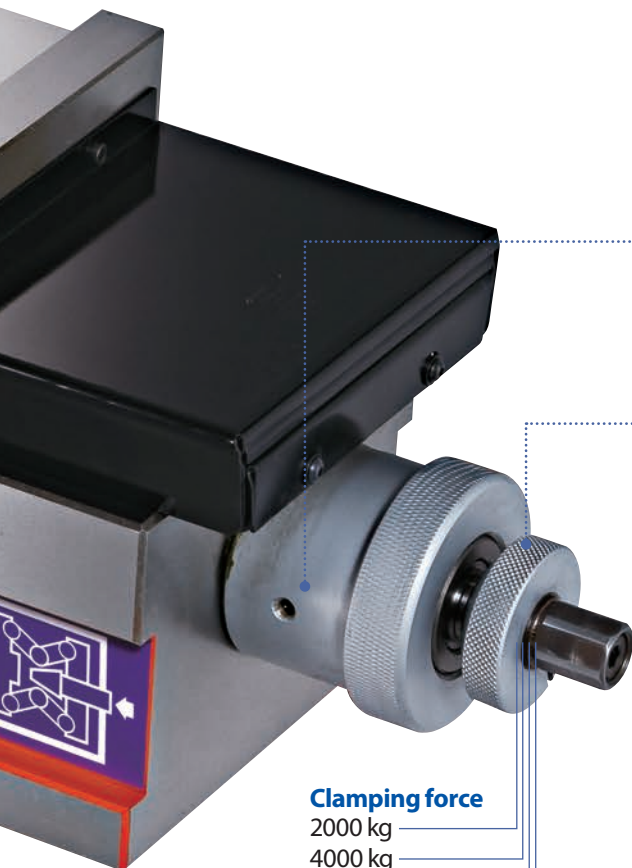
*With a second half turn
it will apply 4500kg of clamping force.*

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.

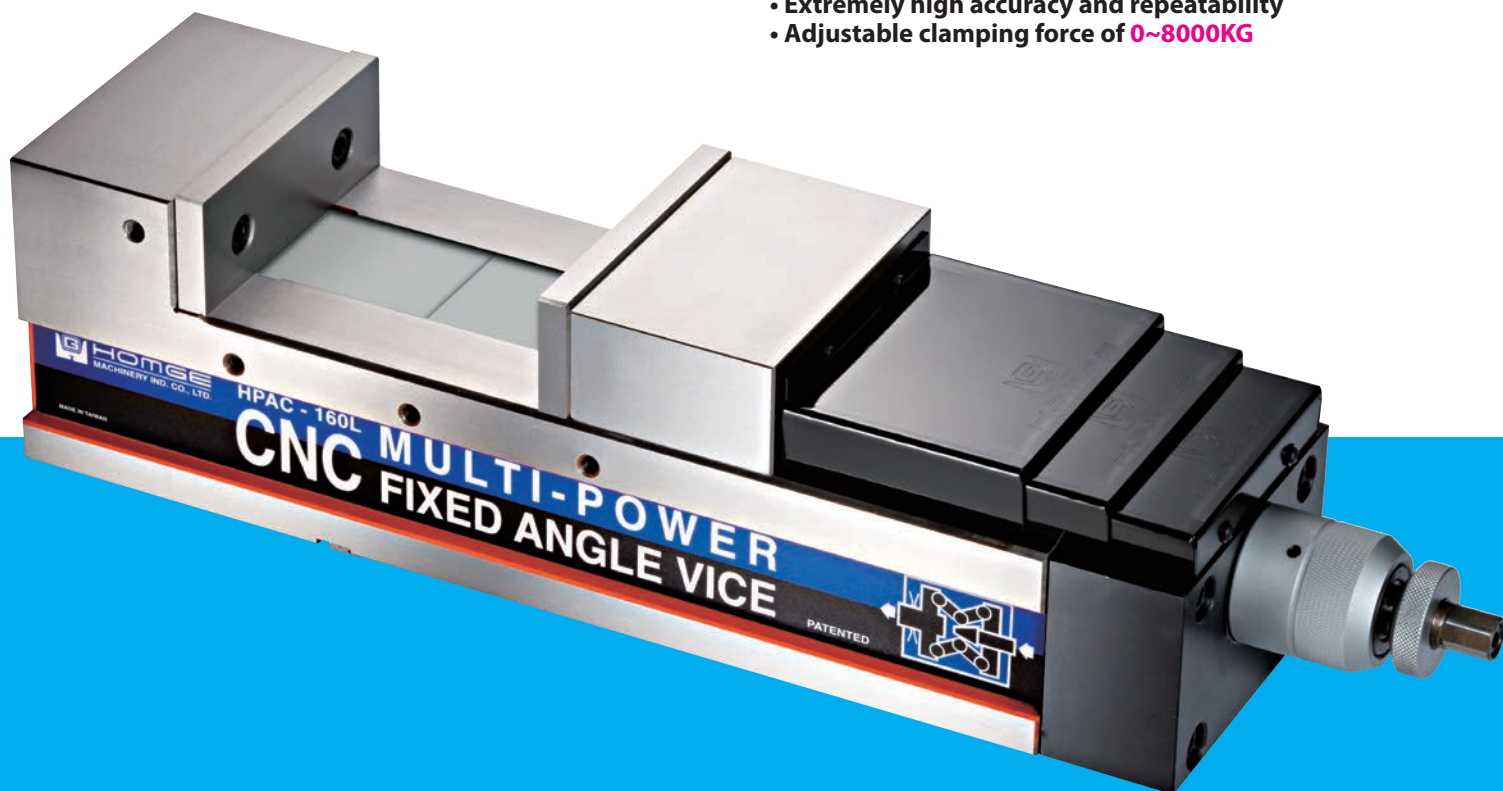
PATENTED
142711
M287204
M320459

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**

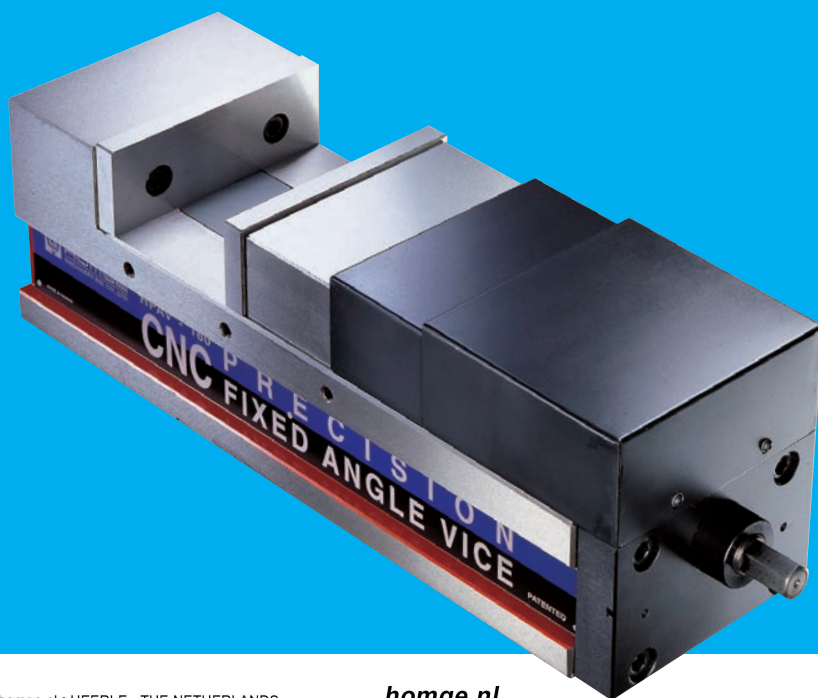


V-19~21

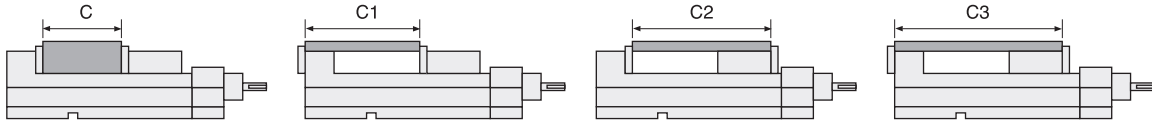
CNC PRECISION FIXED ANGLE VICE

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

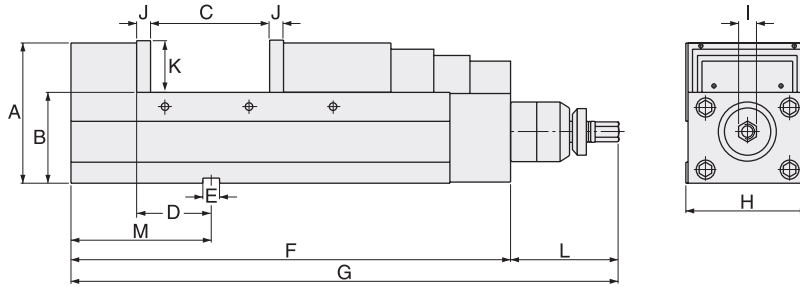
This vice has the same features as model HPAC above but has standard clamping screw instead of the MULTI-POWER SYSTEM.



DIMENSIONS FOR 4 JAW PLATE POSITIONS



DIMENSIONS

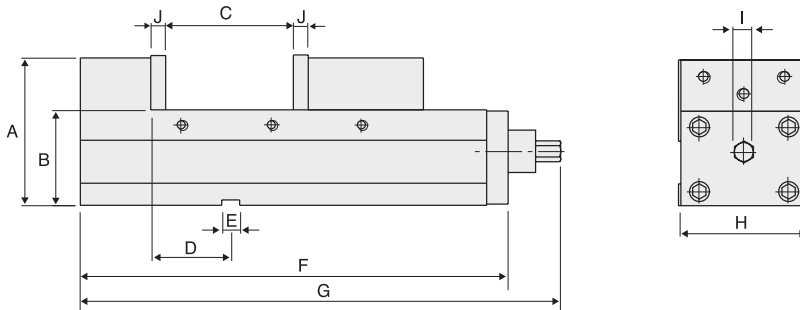


SPECIFICATIONS (Material: FCD 60 Ductile Iron. Hardness: HRC 50°)

Unit: mm

NO	Model	A	B	C	C1	C2	C3	D	E	F
V-16	HPAC-130	147	95 ± 0.01	0 - 190	70 - 260	115 - 305	185 - 375	80 ± 0.02	18	475
V-17	HPAC-160	160	105 ± 0.01	0 - 250	85 - 325	140 - 375	220 - 460	80 ± 0.02	18	560
V-17A	HPAC-160L	160	105 ± 0.01	0 - 300	85 - 375	110 - 395	190 - 480	80 ± 0.02	18	580
V-18	HPAC-200	170	110 ± 0.01	0 - 290	90 - 380	155 - 440	240 - 530	100 ± 0.02	18	635
NO	Model	Max. damping Force	G	H	I	J	K	L	M	Weight (kg)
V-16	HPAC-130	6000kg	583	131	19	15	55	120	150	47
V-17	HPAC-160	8000kg	670	161	19	15	58	120	165	65
V-17A	HPAC-160L	8000kg	690	161	19	15	58	120	165	67
V-18	HPAC-200	8000kg	743	201	19	18	63	120	197	95

DIMENSIONS



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

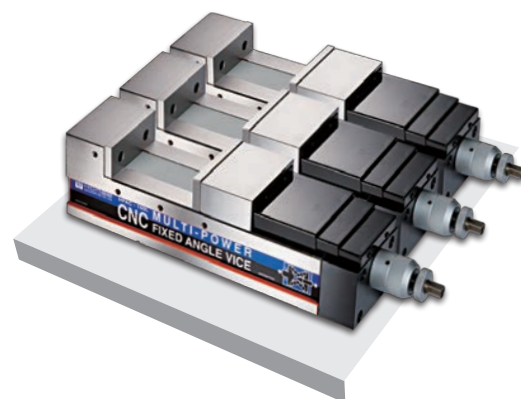
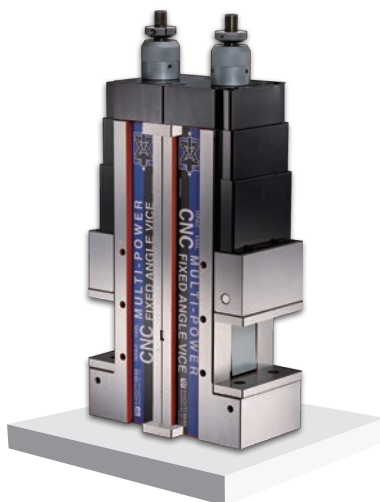
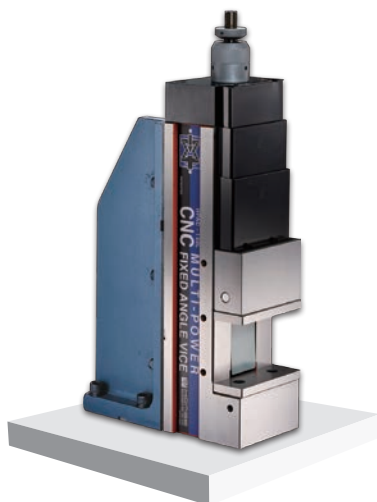
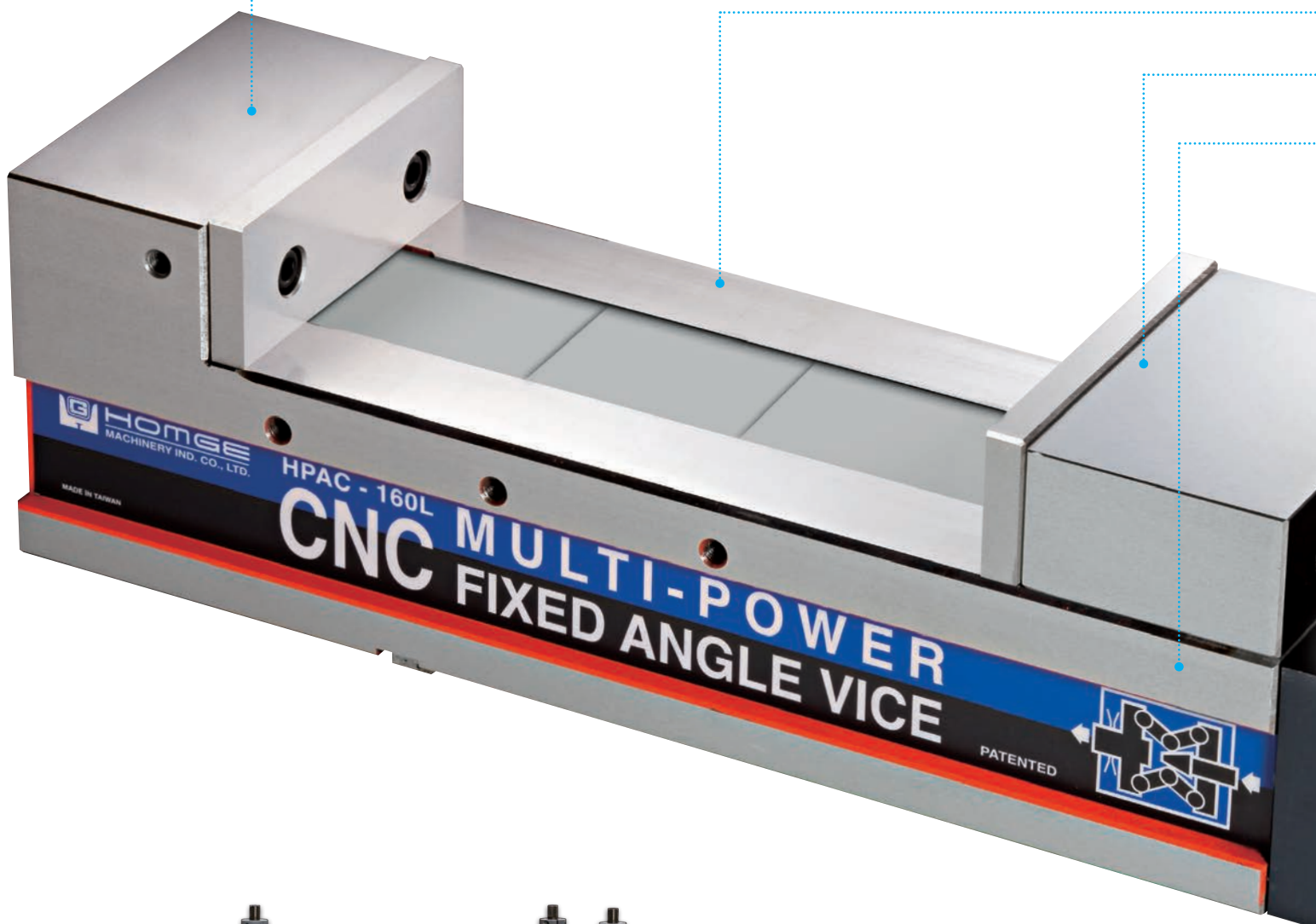
Unit: mm

NO	Model	A	B	D	E	F	G	H
V-19	HPAV-130	147	95 ± 0.01	80 ± 0.02	18	440	520	131
V-20	HPAV-160	160	105 ± 0.01	80 ± 0.02	18	525	564	161
V-20A	HPAV-160L	160	105 ± 0.01	80 ± 0.02	18	545	584	161
V-21	HPAV-200	170	110 ± 0.01	100 ± 0.02	18	600	680	201
NO	Model	I	J	C	C1	C2	C3	Weight (kg)
V-19	HPAV-130	19	15	0-190	70-260	115-305	185-375	42
V-20	HPAV-160	19	15	0-250	85-325	140-375	220-460	60
V-20A	HPAV-160L	19	15	0 - 300	85-375	110-395	190-480	62
V-21	HPAV-200	19	18	0-290	90-380	155-440	240-530	90

PATENTED
142711
M287204
M320459

MULTI-POWER CNC PRECISION FIXED ANGLE VICE

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



ION

1. Vice 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**.

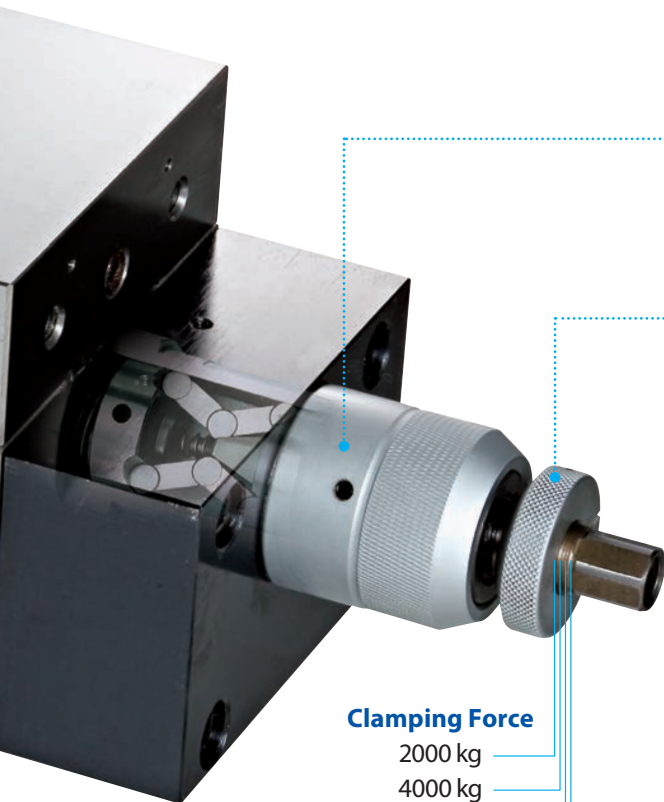
2. Slide ways are **HARDENED** to **HRC 50°** to further increase durability and maintain positioning height over long use.

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 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.



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
- Front / Back Jaws

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.

Fixed height so several vices can be used together.

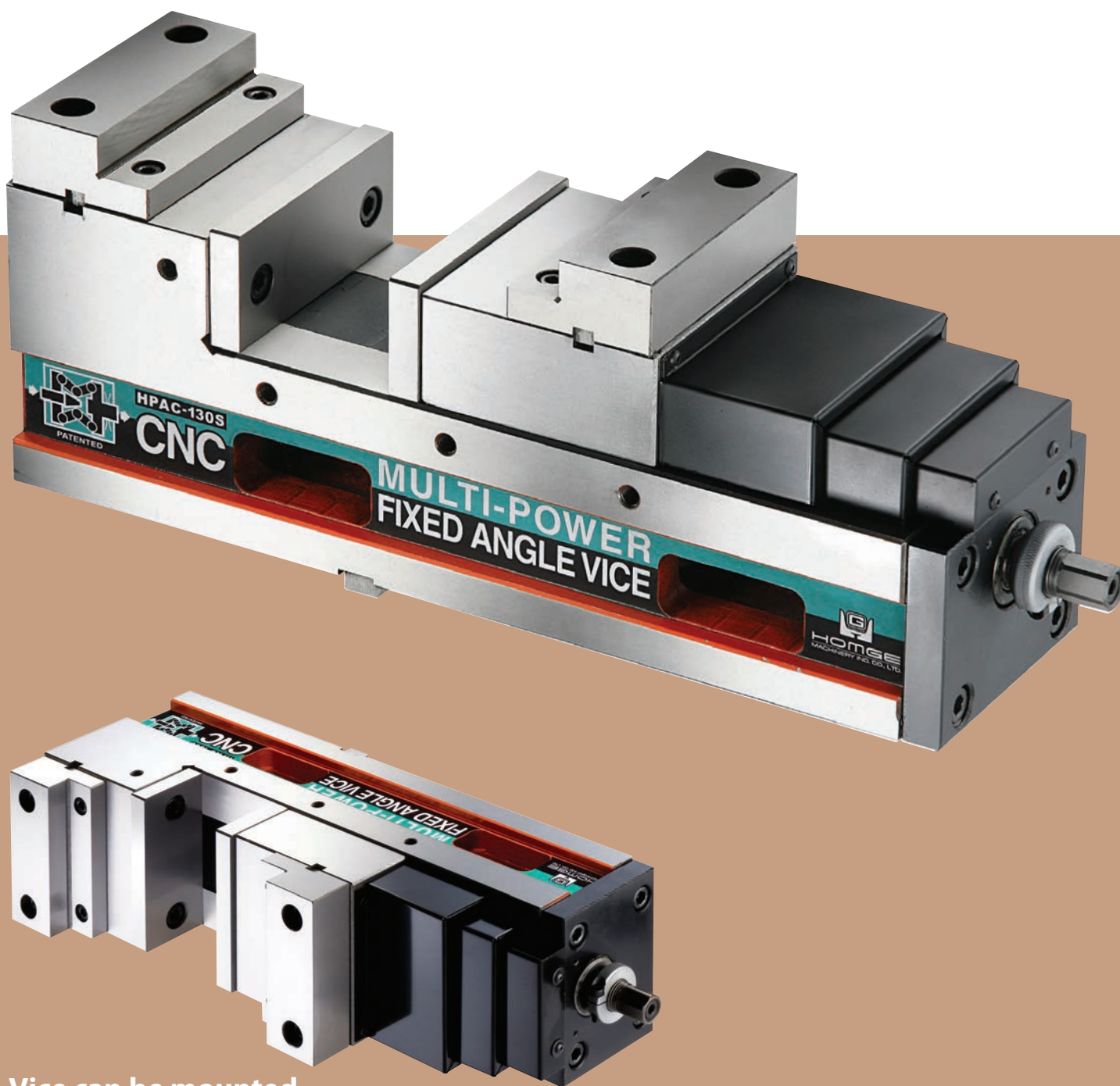
PATENTED
142711
M287204
M320459

V-22A / 22 / 22B

MULTI-POWER CNC PRECISION FIXED ANGLE VICE

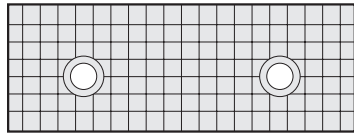
Model: HPAC-100S, 130S, 160S

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

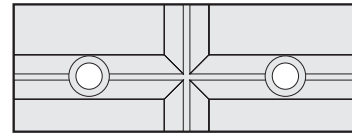


**Vice can be mounted
horizontally or vertically.**

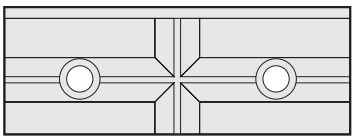
OPTIONAL ACCESSORIES:



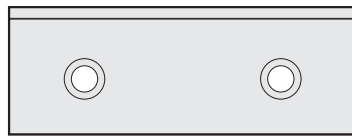
1) Cross Grooved Jaws



2) 'V' Jaws



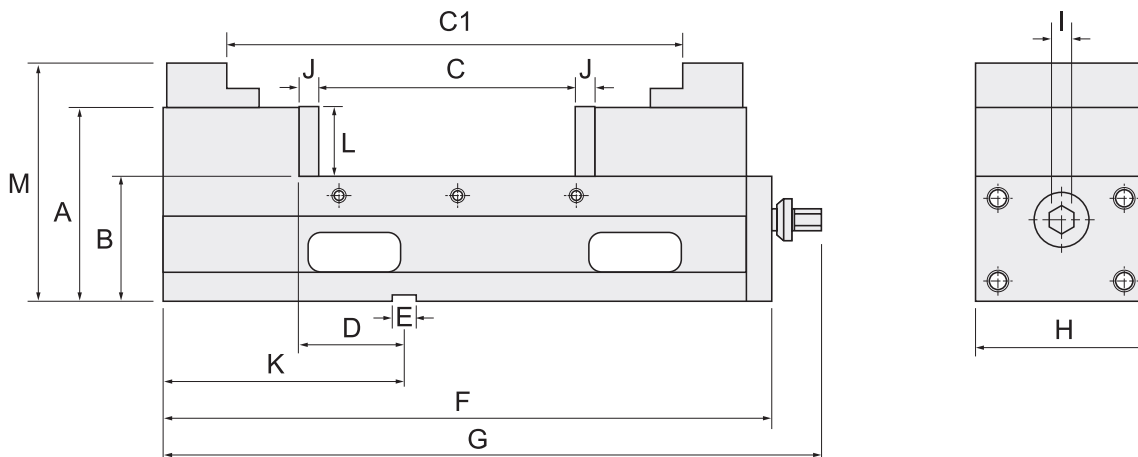
3) Combined Jaws



4) Step Jaws



DIMENSIONS



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

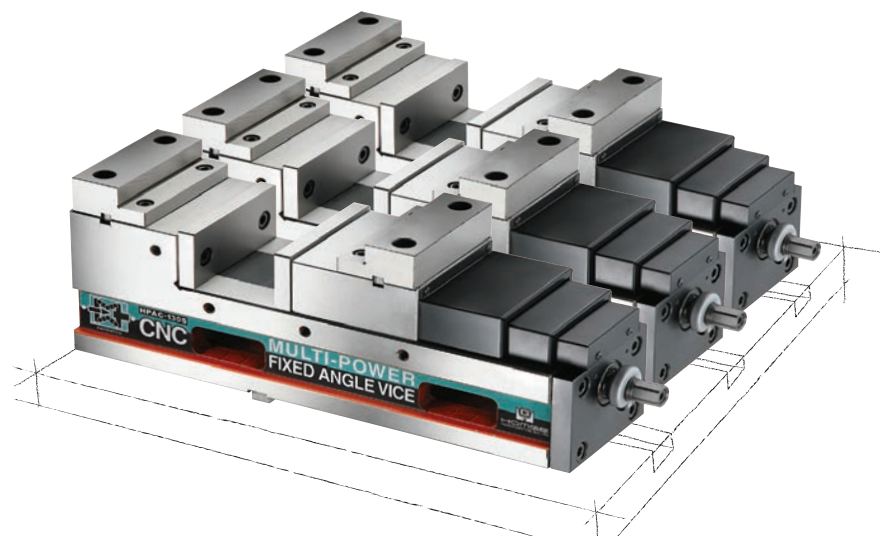
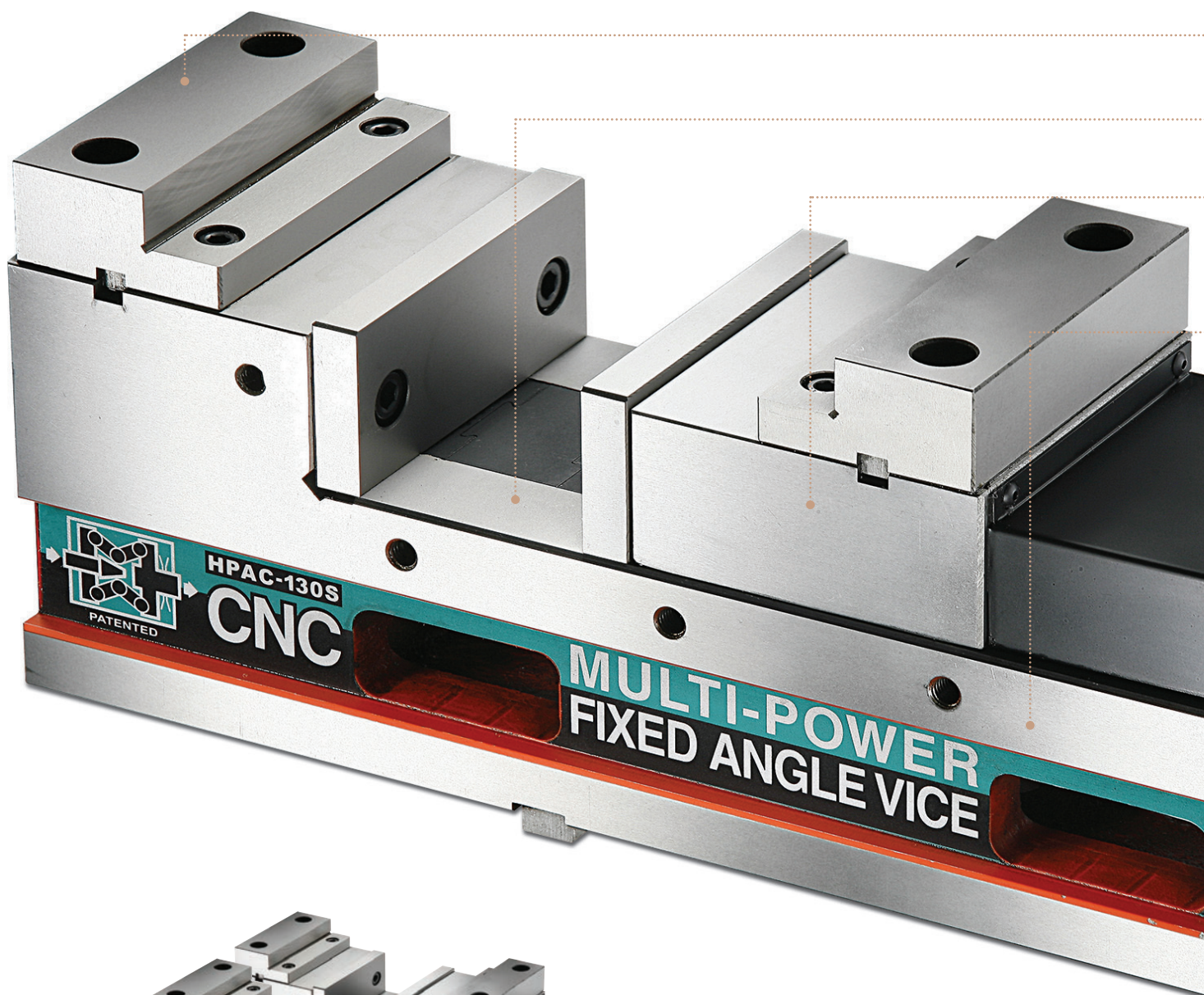
Unit: mm

NO	Model	A	B	C	C1	D	E	F	G
V-22A	HPAC-100S	127	85 ± 0.01	0-170	115-280	75 ± 0.02	18	414	460
V-22	HPAC-130S	147	95 ± 0.01	0-190	155-340	75 ± 0.02	18	462	510
V-22B	HPAC-160S	160	105 ± 0.01	0-250	190-430	80 ± 0.02	18	532	580
NO	Model	Max. clamping Force	H	I	J	K	L	M	Weight (kg)
V-22A	HPAC-100S	5000kg	100	19	15	178	44	153	32
V-22	HPAC-130S	6000kg	131	19	15	178	55	181	46.5
V-22B	HPAC-160S	8000kg	160	19	15	183	58	196	64

PATENTED
142711
M287204
M320459

MULTI-POWER CNC PRECISION FIXED ANGLE VICE

Model: HPAC-100S, 130S, 160S



ON

1. The patented MULTI-POWER SYSTEM is built of **HIGH GRADE BEARING STEEL** which doubles the clamping force. Adjustable clamping force of **0~8000kg**. With this special patented system the clamping force remains the same.

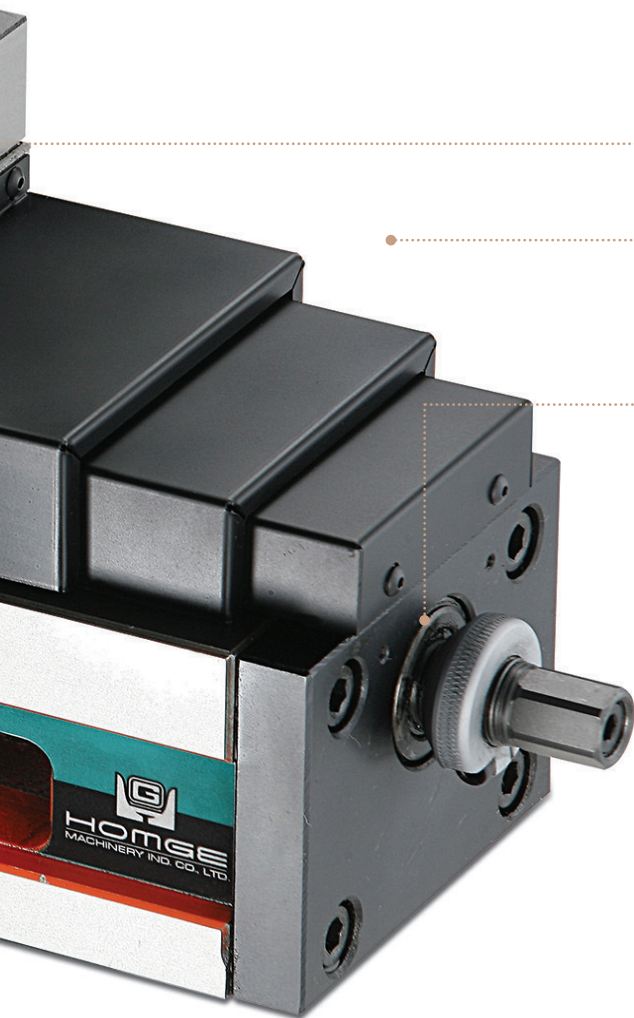
2. Slide ways are **HARDENED** to **HRC 50°** to further increase durability and maintain positioning height over long use.

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 vice is most suitable for precision mould making on Machining Centers.

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

5. Vice can be mounted horizontally or vertically.

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

OPTIONAL ACCESSORIES:

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

PATENTED
215753
209782



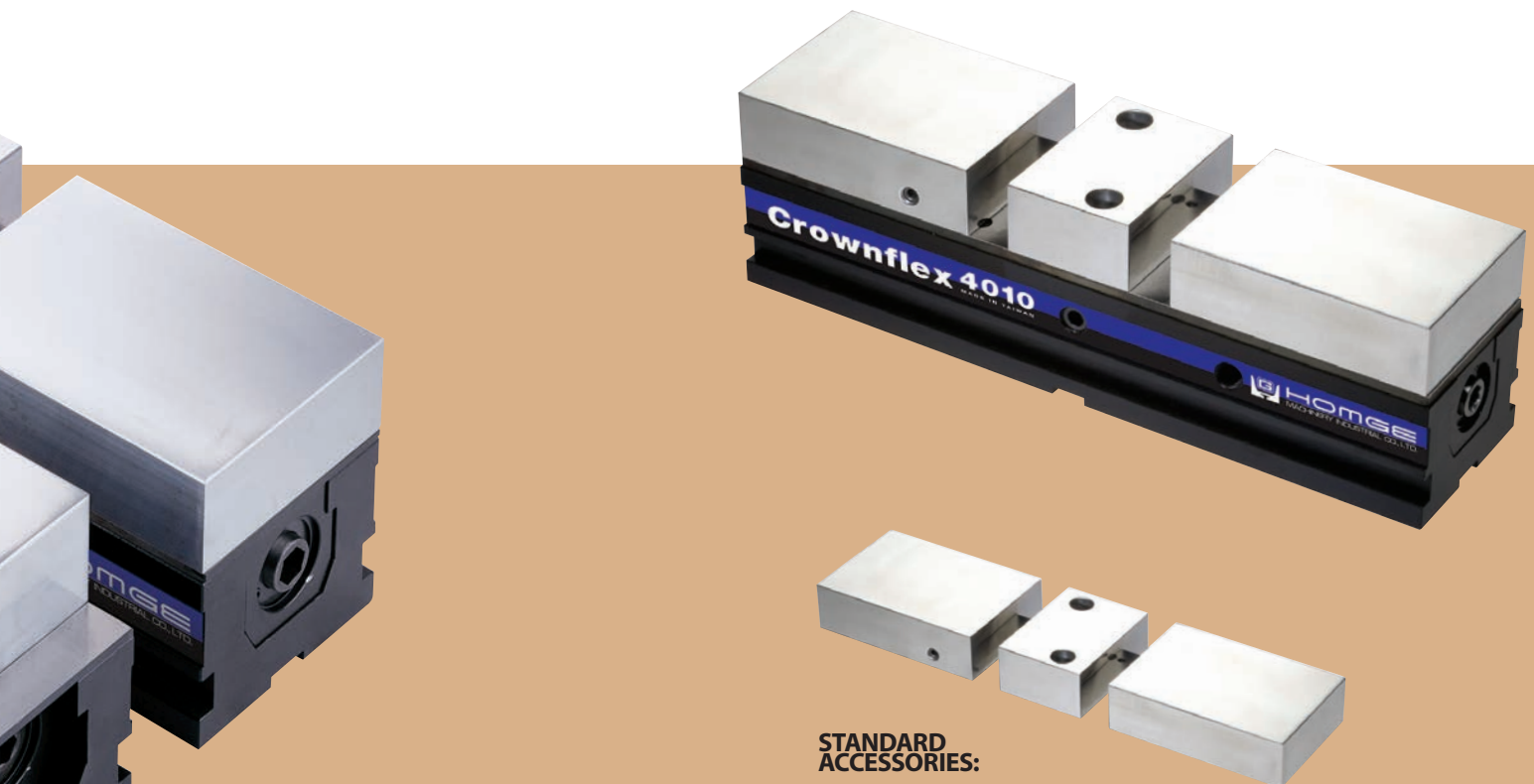
V-23~24

ALUMINUM VICE

Model: Crownflex-4010, 5015

The vice body is made of high tensile aluminum alloy and designed for continuous, light-duty operation. It is suitable to use with the groove and hole systems of CNC machining centers and milling machines.

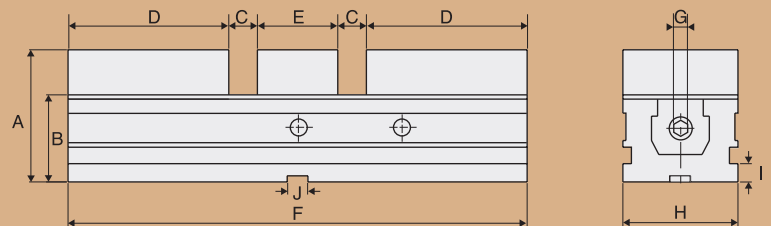
- Quick change jaws
- Double and centralized chucking in one system
- Centralized chucking for high precision



STANDARD ACCESSORIES:

Extra 2 pcs of Moveable Jaw &
1 pc of Fixed Jaw

**Moveable Jaw and Fixed Jaw are Available
for being Ordered Separately.**



SPECIFICATIONS (Material: Aluminum Alloy, Durable hard anodized vice body)

Unit: mm

NO	Model	A	B	C	D	E	F	G	H	I	J	Weight (kg)
V-23	4010	117	78	25	140	70	400	12	100	14	18	12.5
V-24	5015	144	95	25	185	80	500	14	150	22	18	30



PATENTED
215753
209782

ALUMINUM VICE

Model: Crownflex - 4010, 5015

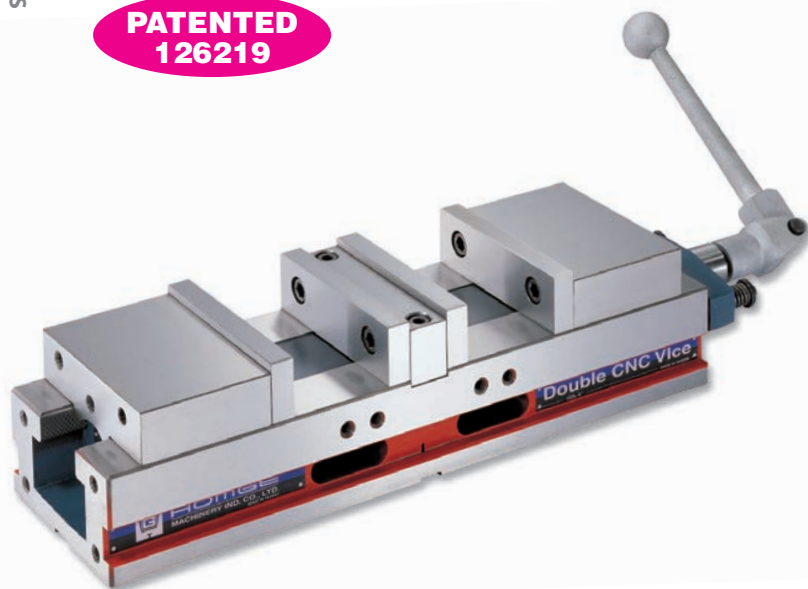
Steel balls recessed in the body allowing the cover plate to be positioned without "play" due to an undersize of the taper bore. This guarantees absolute and exact positioning.

Setup takes place easily in seconds whether changing jaws or changing from centralized to double chucking for the vice.



Integral jaw brake for easier handling

It is a compact structure of integral jaw brake for this vice. Once set up, the brake function remains active in repetitive chucking operations. This function greatly facilitates clamping operations, especially when it is being used vertically.

PATENTED
126219

V-25~26

DOUBLE CNC PRECISION VICE

Model: HDL-4", 6"

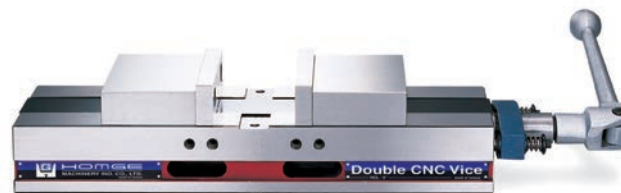
Increases the workholding capacity of CNC Machining Centers by holding 2 pieces in each vice. The design is also compact allowing several vices to be fitted to the work table.



The vice can hold 2 workpieces of different sizes. The maximum opening difference is **70mm**.



Centre Jaw maybe removed to hold larger workpieces.



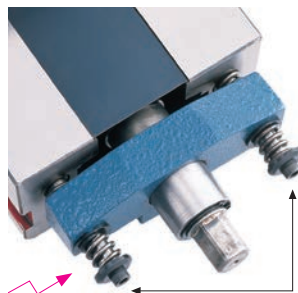
Once the Centre Jaw is removed the vice is self centring.

STANDARD ACCESSORIES:

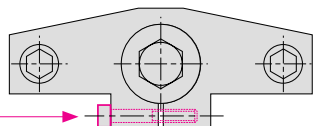
- 2 pcs of Alignment Wedge
- 4 pcs of Clamp

OPTIONAL ACCESSORY:

Soft Jaws (4 pcs / per set)

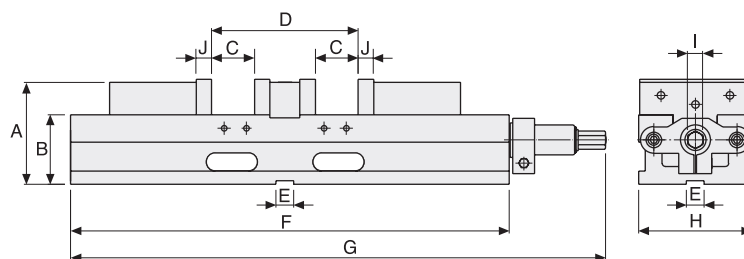


A special **SPRING DEVICE** allows an extra tolerance of up to **5mm** in workpiece size enabling quick positioning and clamping.



If the tolerance of work-piece is more than 5mm, please adjust this screw.

DIMENSIONS



SPECIFICATIONS (Material: FCD 55 Ductile Iron. Hardness: HRC 50°)

Unit: mm

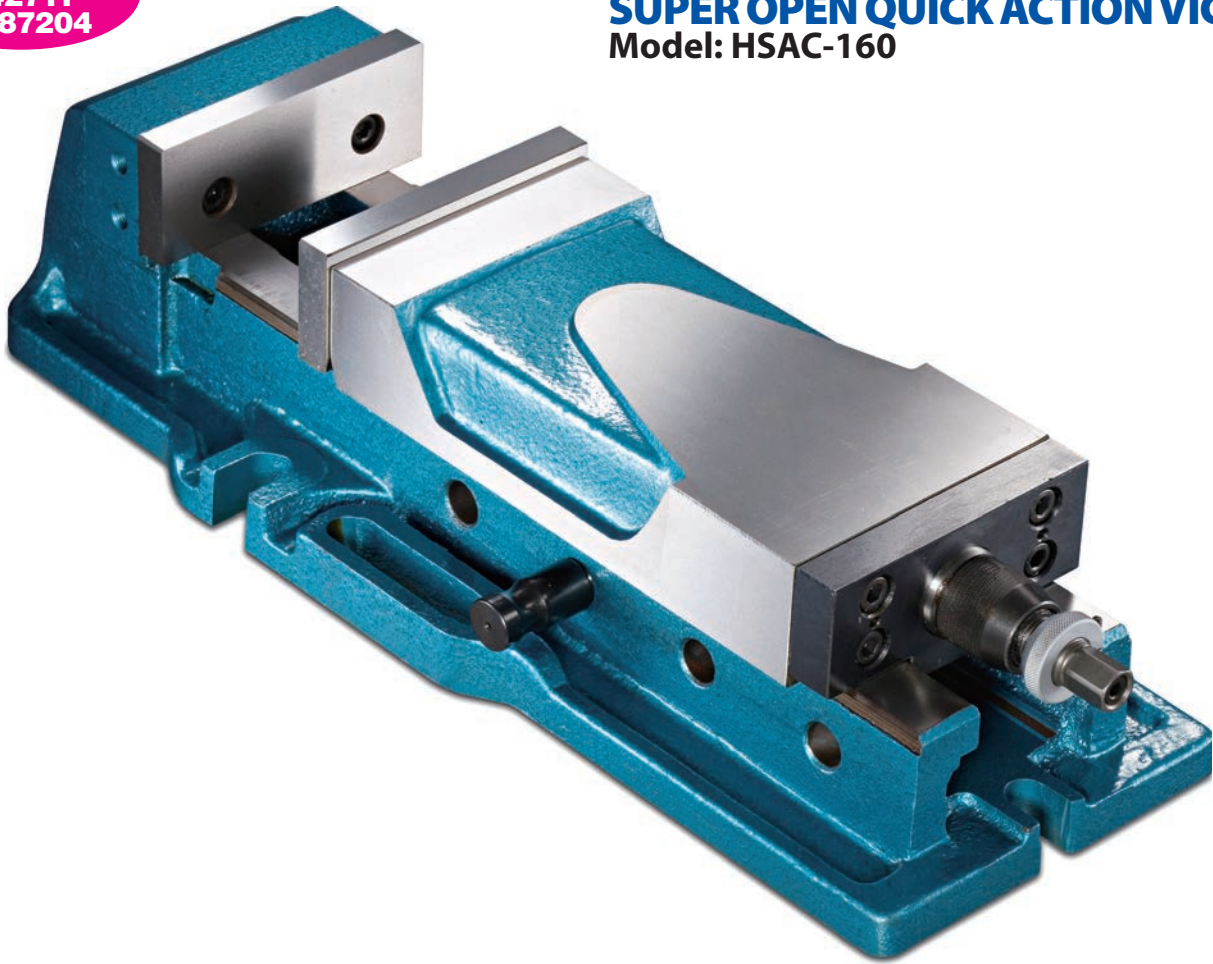
NO	Model	A	B	C	D	E	F	G	H	I	J	Weight (kg)
V-25	HDL-4"	92	63 ± 0.01	74	200	18	395	480	104	14	14	20
V-26	HDL-6"	118	80 ± 0.01	100	270	18	517	615	154	19	18	46

PATENTED
142711
M287204

V-27

SUPER OPEN QUICK ACTION VICE

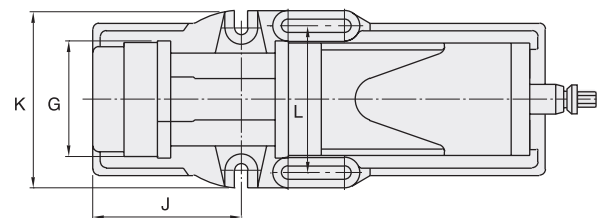
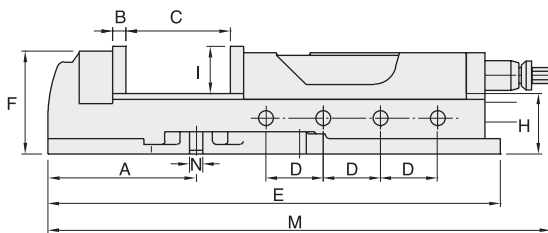
Model: HSAC-160



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.

- Patented **MULTI-POWER SYSTEM** provides extremely high clamping force of **0~4500kg**.
- No risk of loss of clamping pressure.
- No risk of oil leakage like Hydraulic Vices.
- More compact than Hydraulic Vices.
- Body has **ONE-PIECE CONSTRUCTION** for high rigidity and precision.
- **ANGLE-LOCK MECHANISM** provides downward pressure on Jaw to ensure parallel clamping.
- Both surfaces of Slideways are **HEAT TREATED**.
- Large opening capacity up to **300mm**.

DIMENSIONS



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

Unit: mm

NO	Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Weight (kg)
V-27	HSAC-160	200	15	300	77	610	139	158	82	63	200	240	190	915	18	58

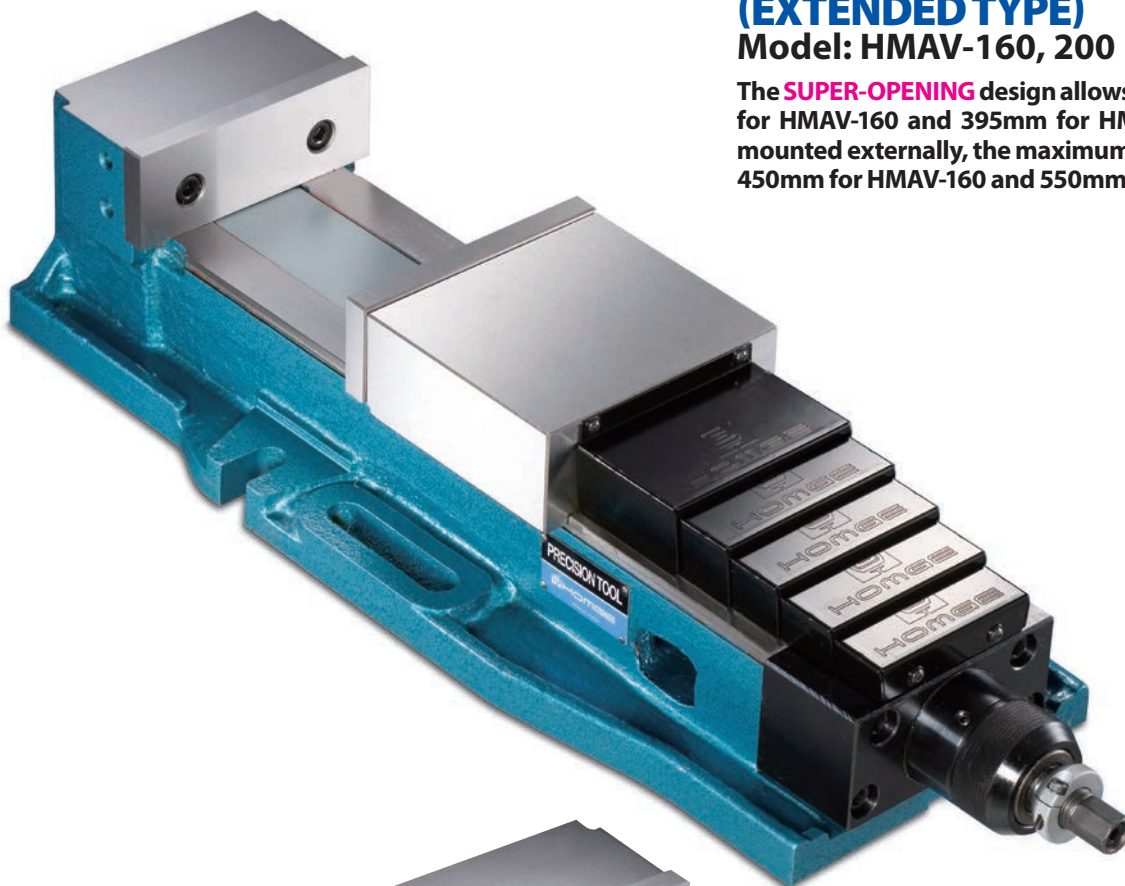
PATENTED
142711
M287204

V-28~29

MULTI-POWER FIXED ANGLE PRECISION VICE (EXTENDED TYPE)

Model: HMAV-160, 200

The **SUPER-OPENING** design allows the jaws to open 310mm for HMAV-160 and 395mm for HMAV-200. With the Jaws mounted externally, the maximum work holding capacity is 450mm for HMAV-160 and 550mm for HMAV-200.

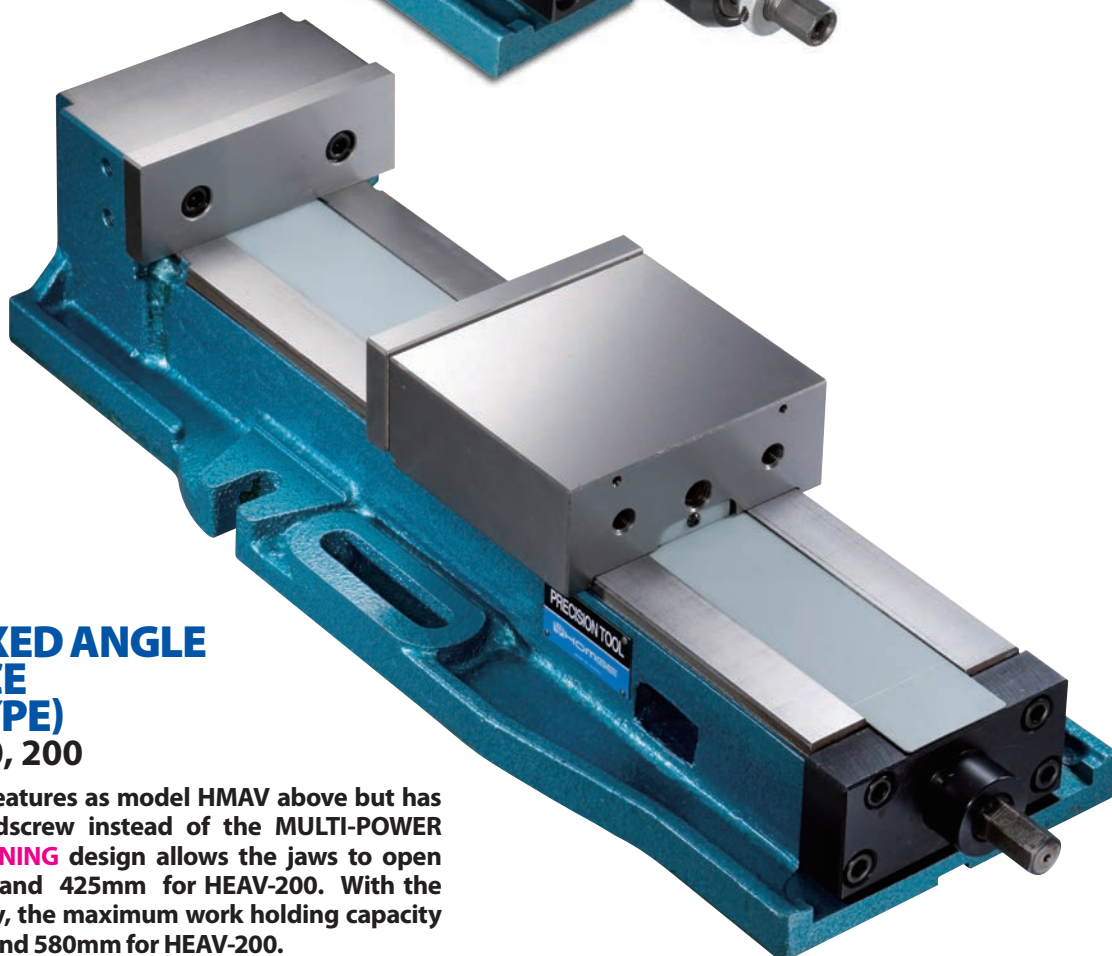


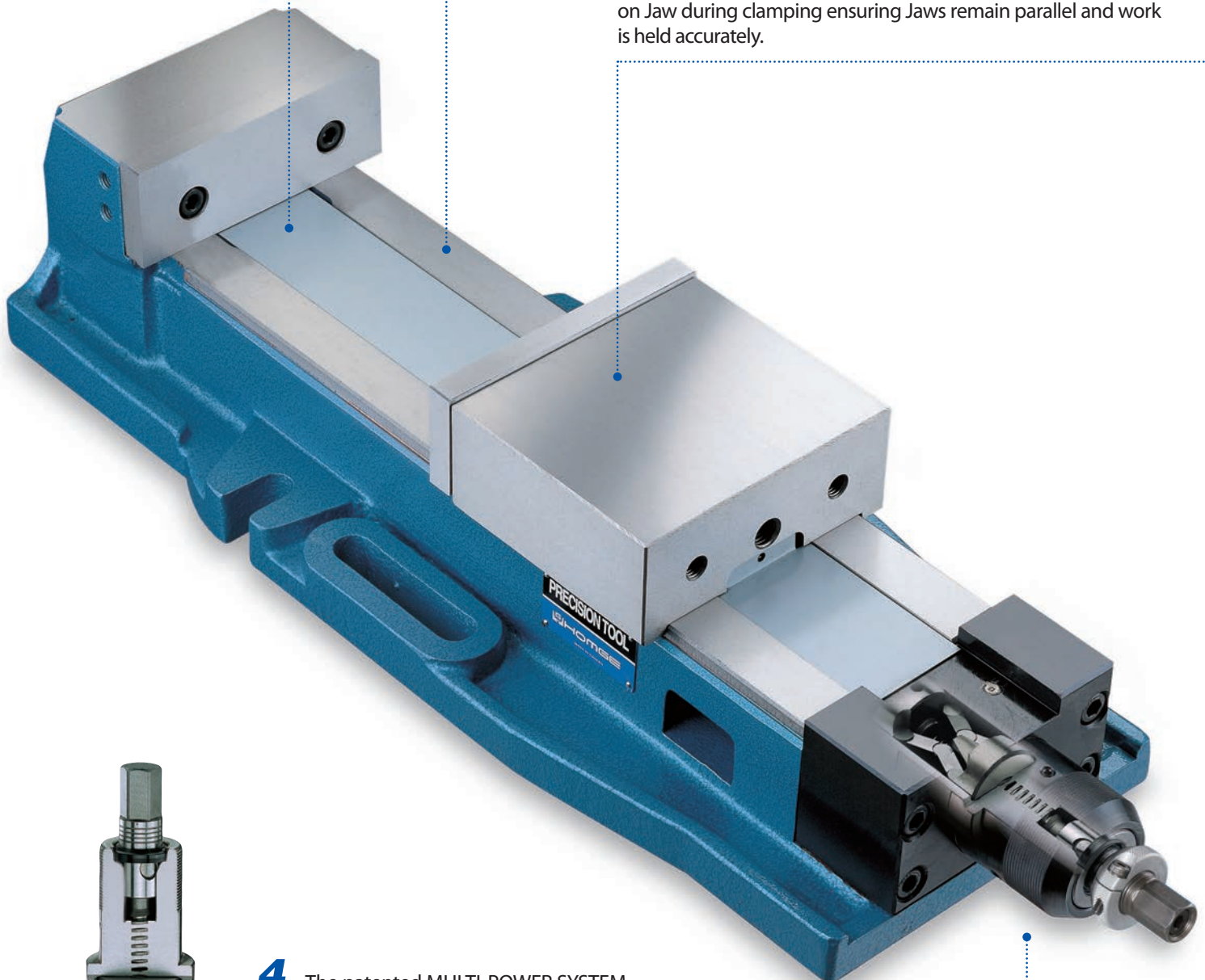
V-30~31

STANDARD FIXED ANGLE PRECISION VICE (EXTENDED TYPE)

Model: HEAV-160, 200

This vice has the same features as model HMAV above but has standard clamping Leadscrew instead of the MULTI-POWER SYSTEM. The **SUPER-OPENING** design allows the jaws to open 340mm for HEAV-160 and 425mm for HEAV-200. With the Jaws mounted externally, the maximum work holding capacity is 480mm for HEAV-160 and 580mm for HEAV-200.



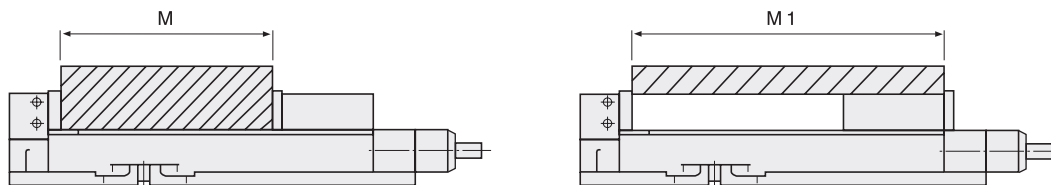
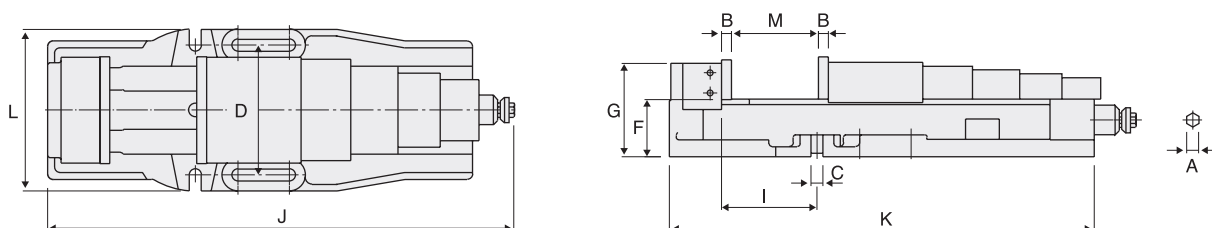


1. Equipped with **CHIP PROTECTION COVER**. Prevents chips getting into the vice and avoids any possible damage to internal parts.

2. Constructed of high grade materials with Slideways **HARDENED** to **HRC 50°** to ensure high accuracy and durability.

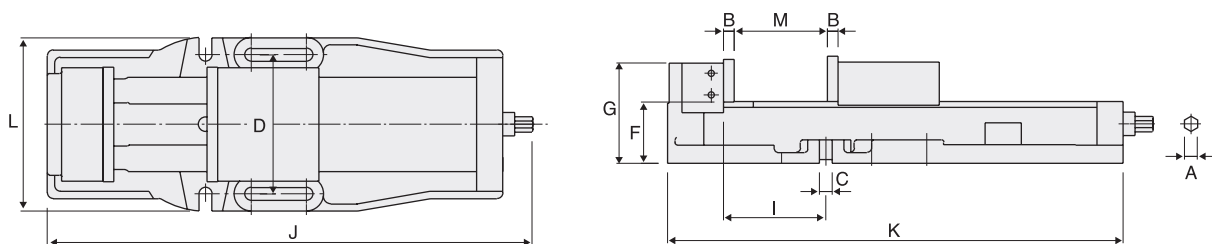
3. **ANGLE-LOCK MECHANISM** provides downward pressure on Jaw during clamping ensuring Jaws remain parallel and work is held accurately.

4. 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.

DIMENSIONS FOR 2 JAW PLATE POSITIONS

DIMENSIONS

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

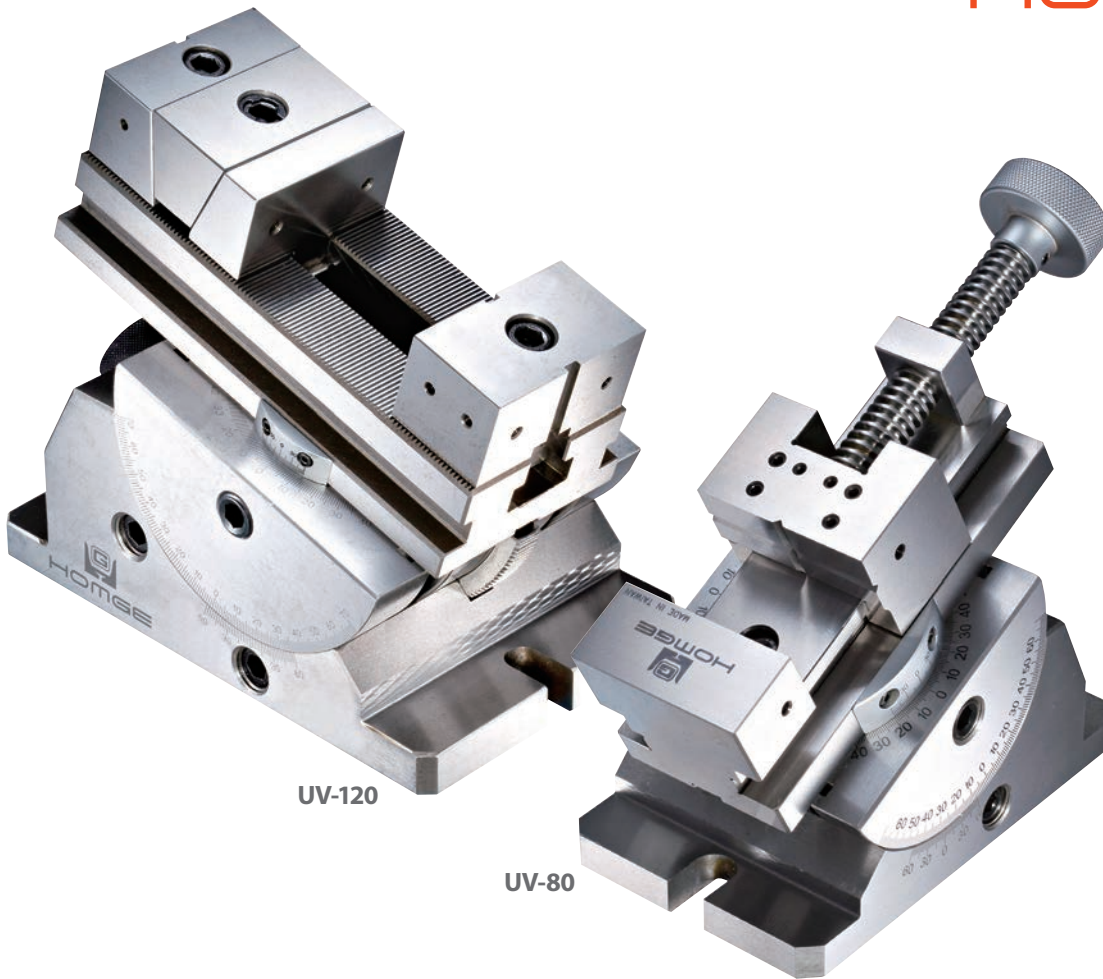
Unit: mm

NO	Model	A	B	C	D	F	G	I
V-28	HMAV-160	19	15	18	192	85 ± 0.01	140	141 ± 0.01
V-29	HMAV-200	19	18	18	240	97 ± 0.01	160	190 ± 0.01
NO	Model	J	K	L	M	M1	Weight (kg)	
V-28	HMAV-160	740	628	240	0-310	140-450	50	
V-29	HMAV-200	830	720	280	0-395	155-550	95	

DIMENSIONS

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

Unit: mm

NO	Model	A	B	C	D	F	G	I
V-30	HEAV-160	19	15	18	192	85 ± 0.01	140	141 ± 0.01
V-31	HEAV-200	19	18	18	240	100 ± 0.01	160	190 ± 0.01
NO	Model	J	K	L	M	M1	Weight(kg)	
V-30	HEAV-160	683	628	240	0-340	140-480	50	
V-31	HEAV-200	775	720	280	0-425	155-580	95	



UV-120

UV-80

STANDARD ACCESSORY:

- 1 pc of T Wrench

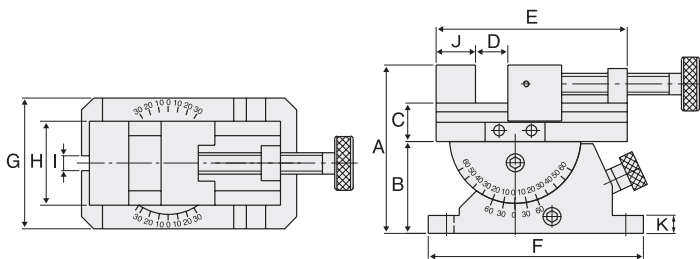
V-32~33

PRECISION UNIVERSAL VICE

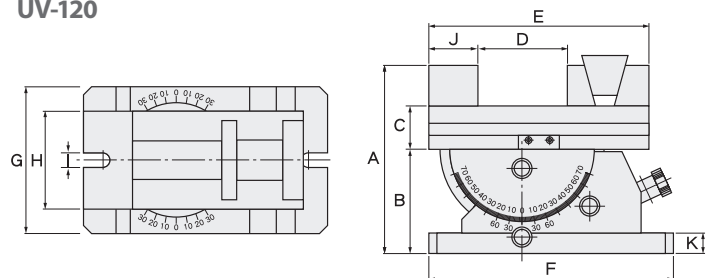
Model: UV-80, 120

- Precision graduation for accurate reading
- Horizontal swivel through **360°**
- Tilts **45°** vertically
- Its swivelling and tilting features make this unit well suited for straight or inclined surface, angular drilling machining on various machine tools as precision grinding machine, boring and milling machine, electrical discharge machine, etc.

UV-80



UV-120



SPECIFICATIONS (Material: S50C / FCD 55 Ductile Iron. Hardness: HRC 56°)

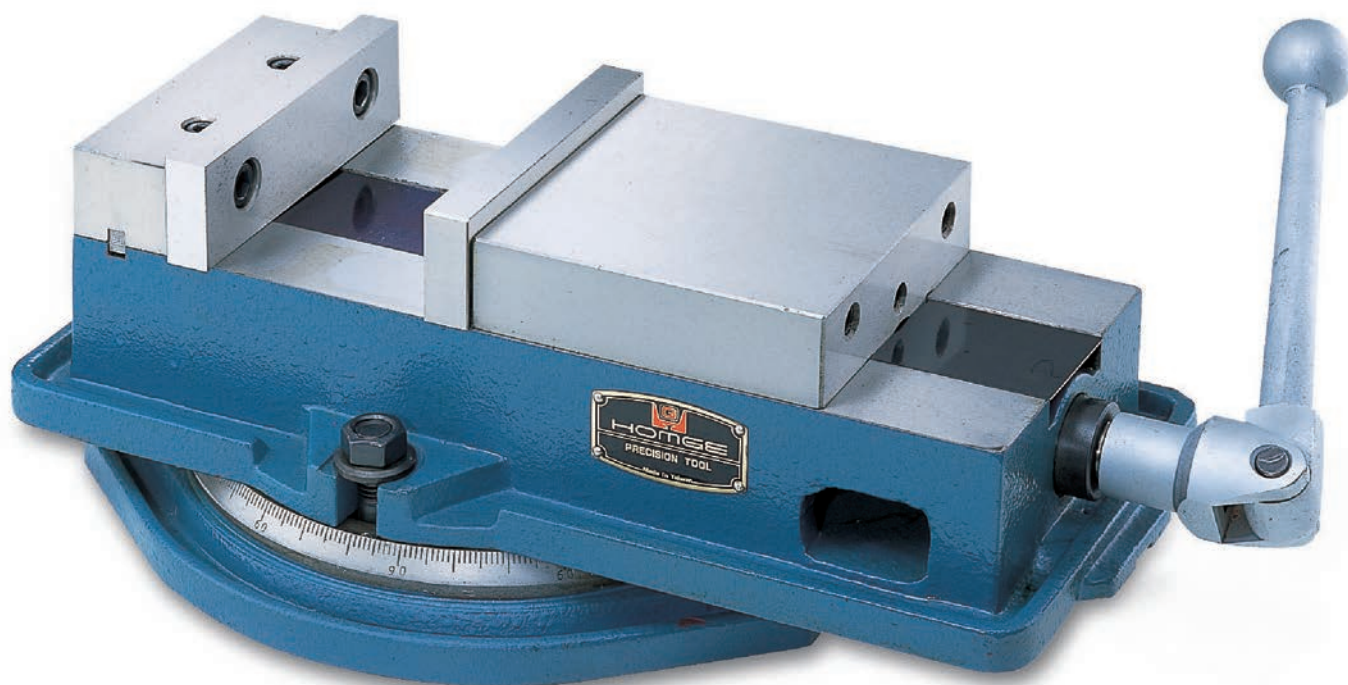
Unit: mm

NO	Model	A	B	C	D	E	F	G	H	I	J	K	Weight (kg)
V-32	UV-80	137	75	32	80	160	180	110	70	12.5	32	15	12
V-33	UV-120	231	128	53	110	270	300	180	120	18	60	25	43

V-34~38

PRECISION ANGLE LOCK MACHINE VICE

Model: HAV-4", 5", 6", 8", 12"



V-39

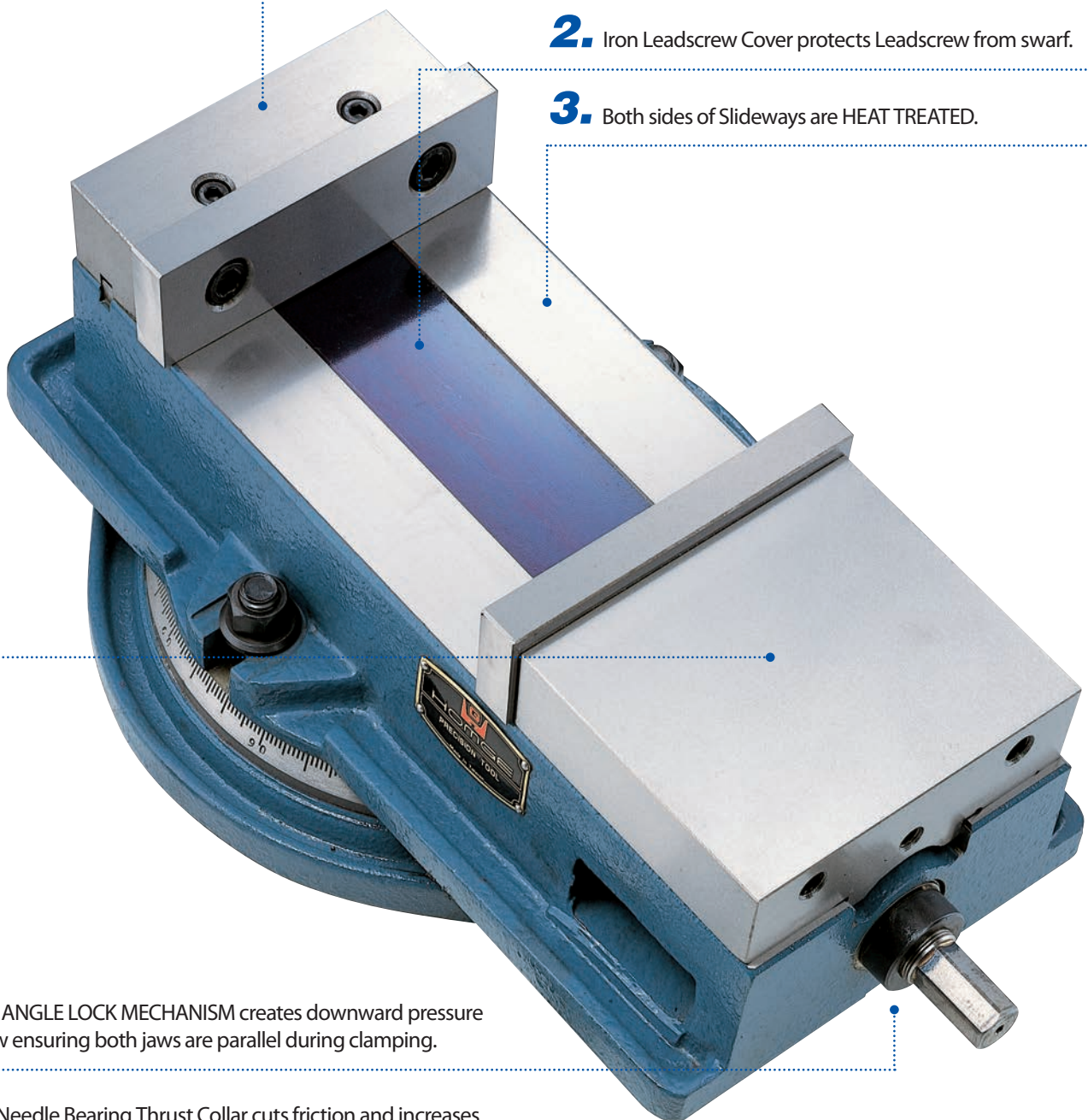
PRECISION ANGLE LOCK MACHINE VICE

Model: 6" SUPER-OPEN 8"

1. Two set screws in the Fixed-Jaw ensure that it does not tilt backwards when a very high clamping force is applied.

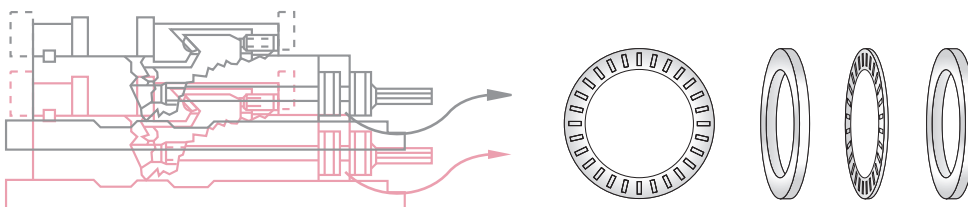
2. Iron Leadscrew Cover protects Leadscrew from swarf.

3. Both sides of Slideways are HEAT TREATED.



4. ANGLE LOCK MECHANISM creates downward pressure on Jaw ensuring both jaws are parallel during clamping.

5. Needle Bearing Thrust Collar cuts friction and increases clamping pressures 80%.



4 JAW PLATE POSITIONS

1



Important ground surfaces include: top and bottom of bed and stationary and movable jaws.

2



Flame hardening of the bed for added wear and strength.

3



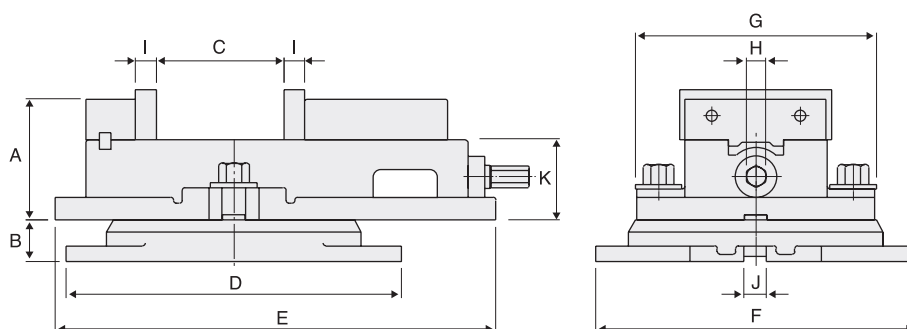
Totally enclosed special treated screw.

4



4 jaw plate positions allowing extra Capacity with the jaw plates in the outside position.

DIMENSIONS



SPECIFICATIONS

Unit: mm/inch

NO	Model									A		B								
V-34	HAV-4"	107	4	154	5 ¹⁵ / ₁₆	220	8 ⁹ / ₁₆	271	10 ¹ / ₂	87	3 ²⁷ / ₆₄	30	1 ⁵ / ₁₆							
V-35	HAV-5"	110	4 ¹ / ₄	163	6 ¹ / ₂	249	9 ³ / ₄	304	12	98	3 ⁵⁵ / ₆₄	32	1 ¹ / ₄							
V-36	HAV-6"	138	5 ¹ / ₂	201	8	304	12	368	14 ¹ / ₂	110	4 ¹ / ₄	40	1 ¹ / ₂							
V-37	HAV-8"	198	7 ³ / ₄	264	10 ³ / ₄	402	15 ¹³ / ₁₆	476	18 ³ / ₄	136	5 ²⁷ / ₆₄	55	2 ³ / ₁₆							
V-38	HAV-12"	320	12 ⁵ / ₈	400	15 ³ / ₄	480	18 ⁷ / ₈	560	22	219	8 ⁵ / ₈	—	—							
NO	Model	C		D		E		F		G		H		I		J		K		Weight (kg)
V-34	HAV-4"	107	4	242	9 ¹ / ₂	318	12 ³³ / ₆₄	230	9 ¹ / ₁₆	172	6 ³ / ₄	14	9 ¹ / ₁₆	15	19 ¹ / ₃₂	16	5 ¹ / ₈	58	29 ¹ / ₃₂	20
V-35	HAV-5"	110	4 ¹ / ₄	280	11	355	14	256	10 ¹ / ₁₆	210	8 ¹ / ₄	15	19 ¹ / ₃₂	15	19 ¹ / ₃₂	16	5 ¹ / ₈	66	219 ¹ / ₃₂	29
V-36	HAV-6"	138	5 ¹ / ₂	336	13 ¹ / ₄	405	15 ¹⁵ / ₁₆	300	11 ³ / ₄	238	9 ³ / ₈	19	3 ¹ / ₄	18	3 ¹ / ₄	18	3 ¹ / ₄	72	254 ¹ / ₆₄	41
V-37	HAV-8"	198	7 ³ / ₄	422	16 ⁵ / ₈	555	21 ³ / ₄	380	15	305	12	19	3 ¹ / ₄	24	15 ¹ / ₁₆	18	3 ¹ / ₄	84	35 ¹ / ₁₆	80
V-38	HAV-12"	320	12 ⁵ / ₈	—	—	738	29 ¹ / ₁₆	—	—	408	16 ¹ / ₁₆	19	3 ¹ / ₄	24	15 ¹ / ₁₆	—	—	102	4	125

SPECIFICATIONS (Material: FCD 55 Ductile Iron. Hardness: HRC 45°)

Unit: mm/inch

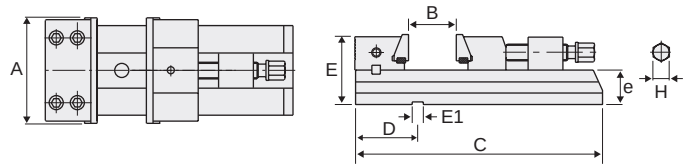
NO	Model																	A		B	
V-39	6" SUPER-OPEN 8"	190		7 + 1/2"		263		10 + 3/8"		349		13 + 3/4"		413		16 + 1/4"		114	41/2	42	15/8
NO	Model	C		D		E		F		G		H		I		J		K		Weight (kg)	
V-39	6" SUPER-OPEN 8"	198	77/8	336	131/4	433	17	300	113/4	238	93/8	19	3/4	18	3/4	18	3/4	75	263/64	50	


STANDARD ACCESSORIES:

- 2 pcs of Alignment Wedge
- 4 pcs of Clamp

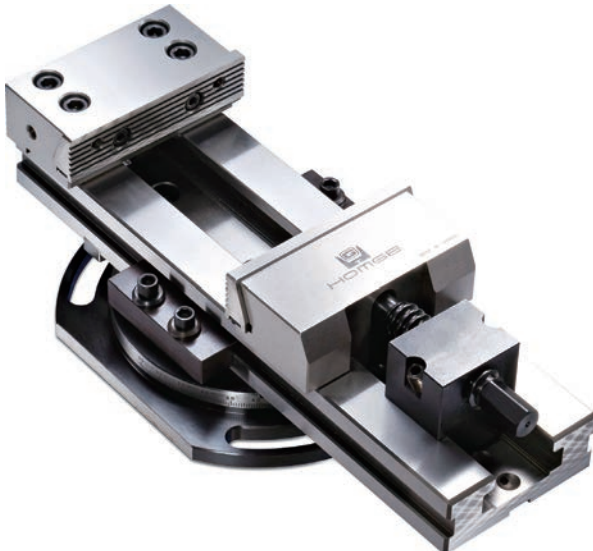
V-40~47
PRECISION RAPID VICE
Model: HG-100,150(A,B,C,D), 200(A,B,C)

- Designed with an instant clamping Hex-Nut for quick adjustment when clamping different work-pieces with irregular lengths.
- Movable Jaw can be easily moved for clamping etc.
- Jaws are slotted for increased grip on workpiece.
- Movable Jaw is short in length for maximum opening capacity.
- Tapered Jaws provide more stable clamping.
- Made entirely of steel the Vice is strong and powerful and retains accuracy.
- Compact design allows maximum workholding capacity on machine.

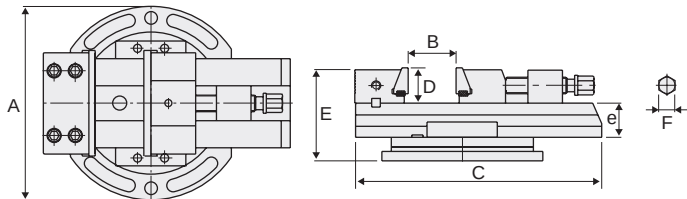

SPECIFICATIONS (Material: S50C. Hardness: HRC 58°~60°)

Unit: mm

NO	Model	A	B	D	E	E1	e	C	H	Clamping force	Weight (kg)
V-40	HG-100	100	100	73 ± 0.02	68	14	37 ± 0.01	250	12	2T	8
V-41	HG-150A	150	150	88 ± 0.02	95	18	48 ± 0.01	350	23	4T	23
V-42	HG-150B		200					400			25
V-43	HG-150C		250					450			27
V-44	HG-150D		300					500			29
V-45	HG-200A	205	200	85 ± 0.02	126	18	63 ± 0.01	470	26	5T	55
V-46	HG-200B		250					520			63
V-47	HG-200C		300					570			73


V-48~54
PRECISION RAPID VICE WITH SWIVEL BASE
Model: HG-150S(A,B,C,D),HG-200S(A,B,C)
STANDARD ACCESSORIES:

- 2 pcs of Alignment Wedge
- 4 pcs of Clamp

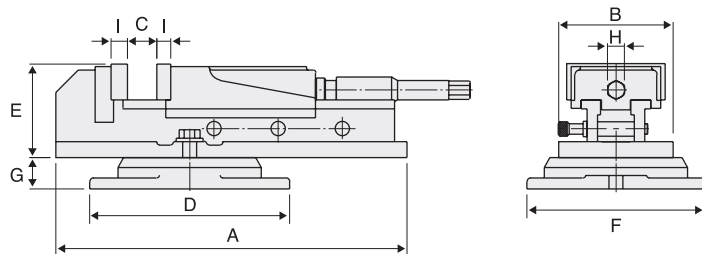

SPECIFICATIONS (Material: S50C. Hardness: HRC 58°~60°)

Unit: mm

NO	Model	A	B	D	E	e	C	F	Clamping force	Weight (kg)
V-48	HG-150SA	275	150	50	128	48 ± 0.01	350	23	4T	33
V-49	HG-150SB		200				400			35
V-50	HG-150SC		250				450			37
V-51	HG-150SD		300				500			39
V-52	HG-200SA	350	200	69	163	63 ± 0.01	470	26	5T	65
V-53	HG-200SB		250				520			73
V-54	HG-200SC		300				570			83

**V-55~57****SUPER-OPEN MILLING VICE****Model: H-400, 600, 800****8" JAW OPENING ON H-400 VICE****11" JAW OPENING ON H-600 VICE****14" JAW OPENING ON H-800 VICE**

Except the Hydraulic System, it has almost the same features with HH-Type HYDRAULIC MACHINE VICE.



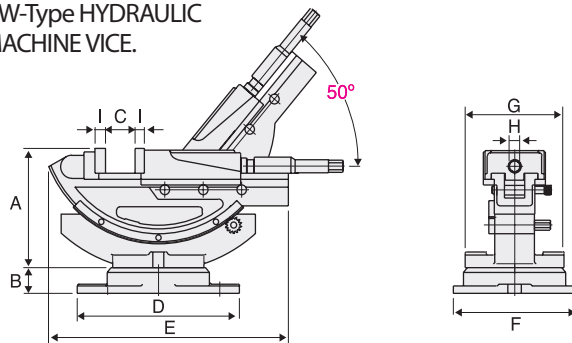
Unit: mm/inch

SPECIFICATIONS

NO	Model	A		B		C		D		E		F		G		H		I		Weight (kg)
V-55	H-400	394	15 ³³ / ₆₄	148	5 ⁵³ / ₆₄	200	8	224	8 ¹³ / ₁₆	105	4	204	4 ¹ / ₈	35	1 ³ / ₈	19	3 ³ / ₄	15	1 ¹⁹ / ₃₂	19
V-56	H-600	535	2 ¹¹ / ₁₆	200	7 ⁷ / ₈	275	11	280	1 ¹¹ / ₆₄	142	5 ¹⁹ / ₃₂	256	10 ⁵ / ₆₄	32	1 ¹ / ₄	19	3 ³ / ₄	15	1 ¹⁹ / ₃₂	45
V-57	H-800	605	2 ¹³ / ₁₆	250	10	336	14	336	1 ¹⁵ / ₆₄	144	5 ⁴³ / ₆₄	300	1 ¹³ / ₁₆	40	1 ³⁷ / ₆₄	19	3 ³ / ₄	15	1 ¹⁹ / ₃₂	75

**V-58~59****TILTING SUPER-OPEN VICE****Model: HHY-100, 150****Our most popular angle milling vice**

- Tilts up and down.
- Base swivels.
- High quality casting with ground finish.
- Easy and light operating, 4 holes can be firmly clamped quickly.
- Type HHY-150 jaw's opening 310mm, 2 times larger than the normal milling vices.
- Except the Hydraulic system, it has almost the same features with HW-Type HYDRAULIC MACHINE VICE.



Unit: mm

SPECIFICATIONS

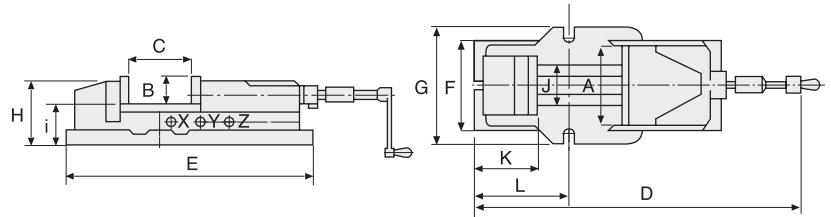
NO	Model	A	B	C	D	E	F	G	H	I	Weight (kg)
V-58	HHY-100	195	42	170	270	405	228	168	19	15	29
V-59	HHY-150	214	40	310	336	485	300	238	19	15	58



V-60~63

HYDRAULIC MACHINE VICE Model: HH-100, 125, 150, 200

- Constructed with HYDRAULIC CYLINDER, which absorbs cutting vibration and improves the precision of machining whilst maintaining a high clamping force.
- The clamping force can be adjusted accurately by use of a DIAL.
- Vice Body is made of high tensile cast iron. The Slideways are hardened and ground to ensure rigidity, durability and minimal deformation.
- The vice Jaws are made of a special hardened ALLOY STEEL and are precision ground.



Unit: mm

SPECIFICATIONS

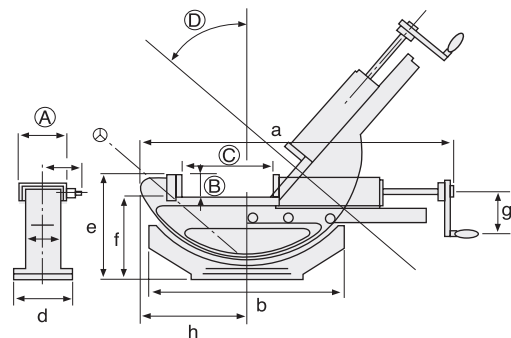
NO	Model	A	B	C	D	E	F	G	H	I	J	K	L	Clamping Force	Weight(kg) Body	Weight (kg) Swivel Base
V-60	HH-100	100	36	170	525	430	130	160	94	60	78	100	155	2500	16	6
V-61	HH-125	125	46	220	670	540	165	185	118	72	97	117	185	3500	33	7
V-62	HH-150	150	51	300	800	620	200	240	133	82	116	125	207	4500	54	16
V-63	HH-200	200	62	300	900	700	225	280	160	100	160	150	265	8500	90	20



V-64~65

TILTING HYDRAULIC MACHINE VICE Model: HW-100, 150

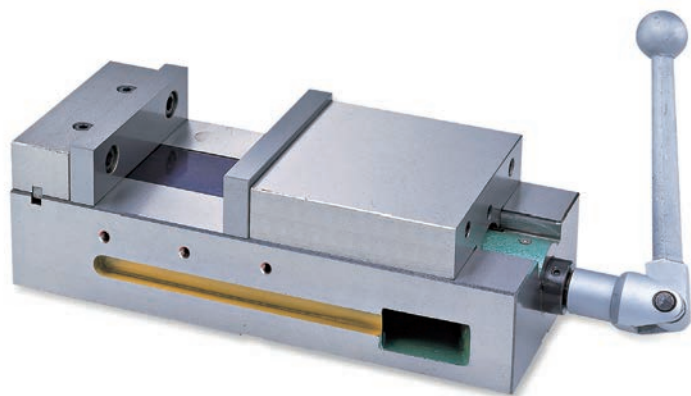
- Constructed with the same specifications as the HH-Type above.
- Having the added tilting function it is particularly well suited to many jig and fixture making applications as well as being more versatile for general machining work.



Unit: mm

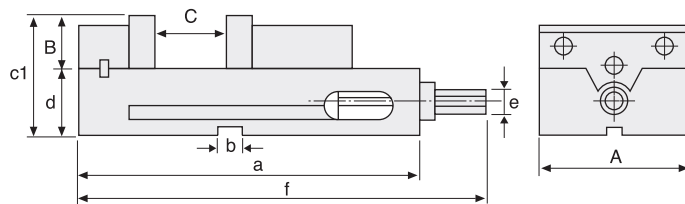
SPECIFICATIONS

NO	Model	A	B	C	D	a	b	c	d	e	f	g	h	Weight (kg) Body	Weight (kg) Swivel Base
V-64	HW-100	100	36	170	50°	505	325	65	160	177	141	80	170	23	4
V-65	HW-150	150	51	300	50°	775	410	95	240	237	186	100	200	60	10

**V-66****LOCK II MACHINE VICE****Model: HMC-6"**

This is the "Just Right" vice for use on all your tape controlled machine tools. What the vice doesn't have is a coolant through. This enables you to anchor a series of these vices snug side-by-side on the machine bed. A number of similar parts can be clamped and machined at the same time, with minimum center-to-center machining distance. Up goes your production rate; down goes costs. Both sides are precision ground square to bottom and parallel with each other and so the vice can also be used at vertical position with its vice bed perfectly perpendicular to the machine table.

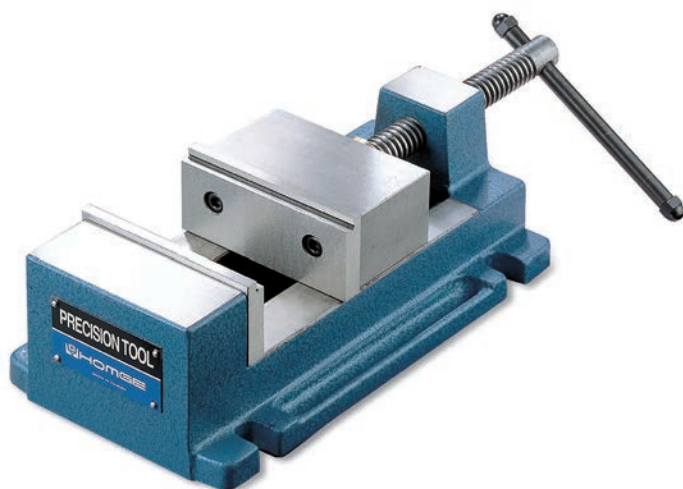
- Can be placed side-by-side on your N / C equipment.
- Permits fast accurate multiple machining.
- Sides ground.
- **ACCURACY** Both sides square to bottom to 0.01mm and parallel with each other to 0.02mm (All others same as HAV-6" Vice.)
- Keyways on bottom to steady jaw plate.



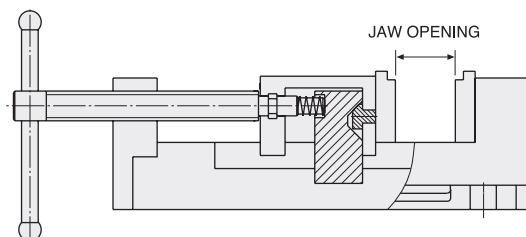
Unit: mm

SPECIFICATIONS (Material: FCD 55, Ductile Iron)

NO	Model	A	B	C	a	b	c1	d	e	f	Weight (kg)
V-66	HMC-6"	156	44	146	370	18	119	75	19	438	32

**V-67~68****ANGLE LOCK DRILL PRESS VICE****Model: HDV-100, 130**

- **ANGLE LOCK MECHANISM** produces downward pressure on Jaw during clamping, ensuring that both Jaws are parallel and work is held accurately.
- Built of high tensile (FCD 55) Ductile Iron .
- Slideways and underside of vice are precision ground.
- The Stepped Jaw Plates are hardened to **HRC 50°** and precision ground.

**SPECIFICATIONS** (Material: FCD 55, Ductile Iron)

Unit: mm

NO	Model	JAW PLATE HEIGHT	JAW PLATE WIDTH	JAW OPENING	Weight (kg)
V-67	HDV-100	43	100	90	6.6
V-68	HDV-130	43	130	90	8.2

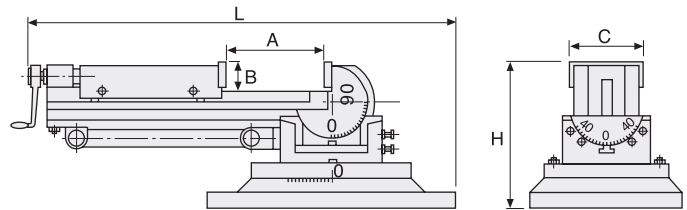


V-69~71

UNIVERSAL 3-WAY TILING VICE Model: HY-3", 4", 5"

Material is highest quality **Ductile Iron 80,000 PSI ...**
It's durable and won't be broken.

- Angles can be set in three dimensions.
- The 360° turnable base is graduated in degrees.
- The vice can be elevated through 90° from the horizontal to the vertical position, and it can also be tilted on its lower angle setting base up to 45° in both the left and right directions.
- The vice can be securely locked in all of its three settings.



SPECIFICATIONS (Material: FCD 55. Ductile Iron)

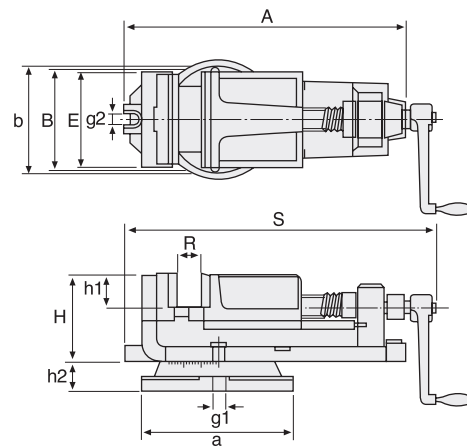
Unit: mm

NO	Model	A	B	C	H	L	Vertical Height	Weight (kg)
V-69	HY-3"	90	30	80	150	396	386	17
V-70	HY-4"	105	38	106	172	460	470	33
V-71	HY-5"	140	40	132	205	625	590	45



V-72~75

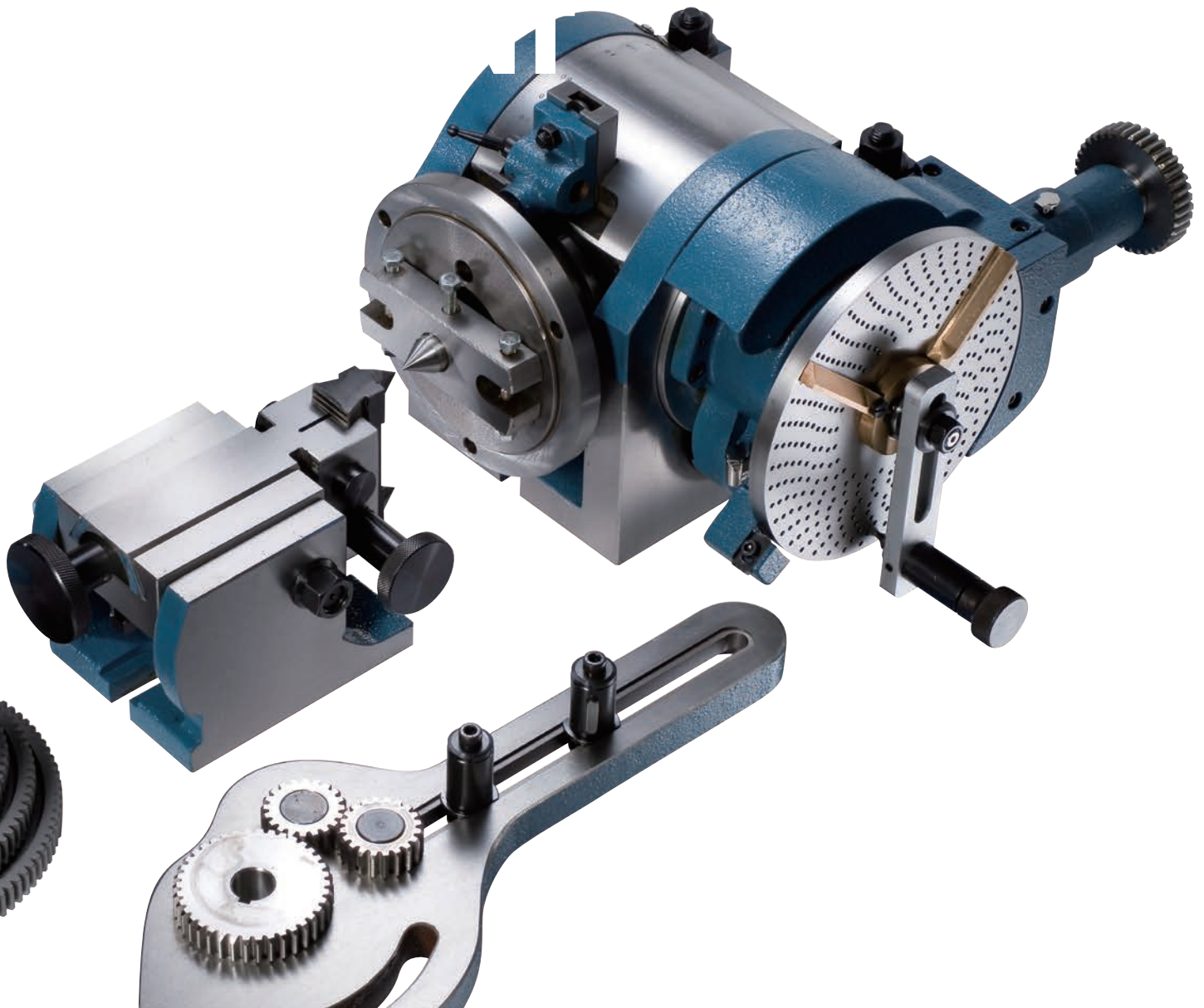
K-TYPE MACHINE VICE Model: HKV-100, 125, 150, 200



SPECIFICATIONS

Unit: mm

NO	Model	E	A	B	H	R	S	a	b	h1	h2	g1	g2	Weight (kg)
V-72	HKV-100	100	267	106	75	65	295	160	114	30	25	10	10	10
V-73	HKV-125	125	340	130	99	80	400	210	155	38	23	10	10	16
V-74	HKV-150	150	421	160	105	114	462	245	175	40	40	13	13	26
V-75	HKV-200	200	576	215	144	150	620	340	230	58	45	17	17	52





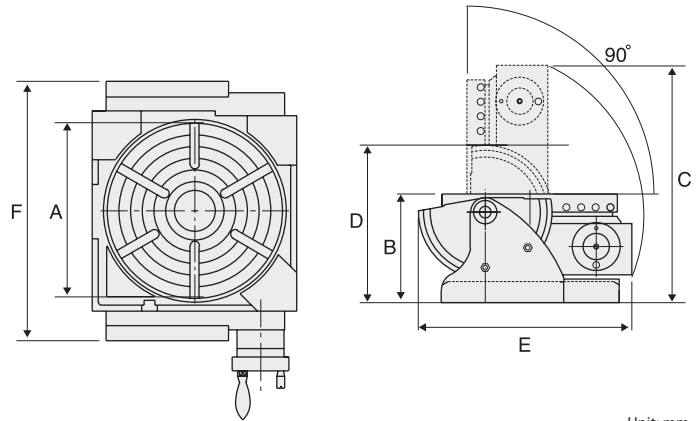
D-01

UNIVERSAL TILTING ROTARY TABLE Model: HUT-300

- QUICK MANUAL INDEXING.
- Suitable for milling, boring, shaping, drilling, dividing, setting angles and for circular cutting.
- Tilting range of 90 degrees from horizontal to vertical position. For the tilting operation each turn of the handwheel tilts the table by 3 degrees and 5 minutes.
- 24 indexing holes around the edge of the table allow quick manual indexing.
- Graduations are large and clearly marked for quick and easy setting of complex angles.

OPTIONAL ACCESSORIES:

- Tail Stock
- Dividing Plate Set
- 7", 8" or 9" 3-Jaw Chuck



Unit: mm

SPECIFICATIONS

NO	Model	TABLE DIAMETER (A)	TABLE HEIGHT HORIZONTAL (B)	TABLE HEIGHT VERTICAL (C)	CENTER HEIGHT VERTICAL (D)	E	F	GEAR RATIO	CENTER HOLE	DIRECT INDEXING	Weight (kg)
D-01	HUT-300	Ø300	185	405	228	336	444	90:1	MT-5	24-div.	93

D-02

**Dividing Plate Set
For HUT-300**
Model:
HUT-300DP

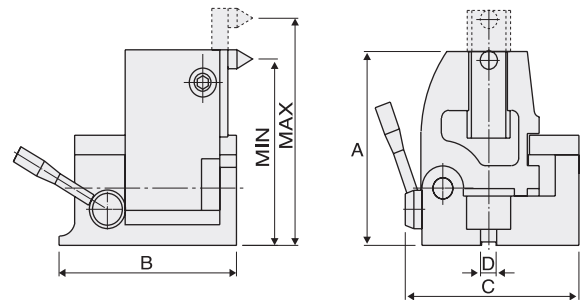


NUMBER OF HOLES:

- 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

D-03

**Tail Stock
For HUT-300**
Model:
HUT-300TS



Unit: mm

SPECIFICATIONS

NO	Model	A	B	C	D	Center Height		Weight (kg)
						Max	Min	
D-03	HUT-300TS	200	196	190	16	230	113	23



D-04

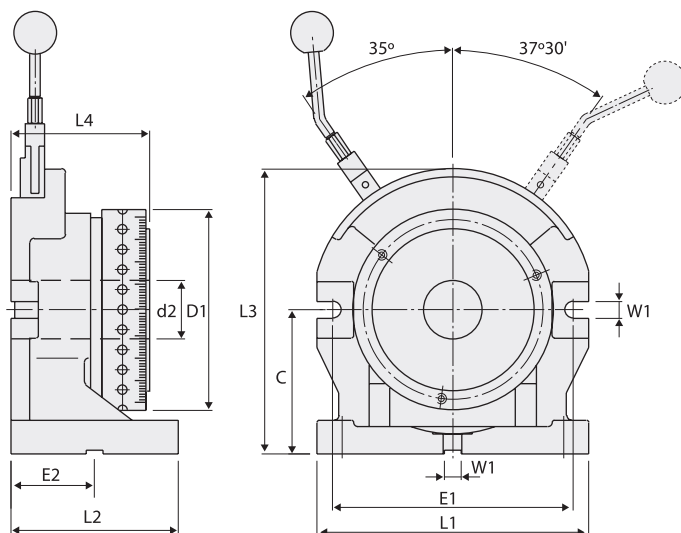
SUPER DIVIDER

Model: HSD-7"

- Superior accuracy
- "One-Touch" Operation
- Saves energy

OPTIONAL ACCESSORY:

- 7" 3-Jaw Chuck



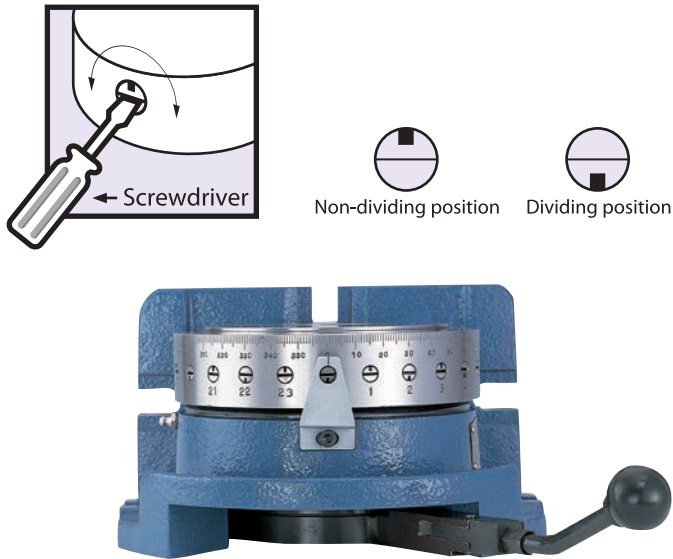
SPECIFICATIONS (Material: FCD 55, Ductile Iron)

Unit: mm / inch

NO	Model	ITEM	C		D1		E1		E2		W1		Weight (kg)
D-04	HSD-7"	MD 192-24	138	57/16"	192	79/16"	230	91/16"	80	35/32"	16	5/8"	32
NO	Model	L1		L2		L3		L4		Internal Dia. (d2)		Permissible Load	
D-04	HSD-7"	260	101/4"	160	61/4"	273	103/4"	132	513/64"	Max. 56 (21/4")		Max. 50kg (110 lb)	

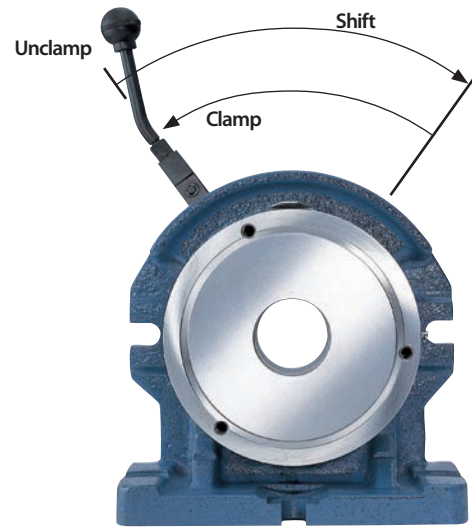
EASY SELECTION OF DIVIDING POSITIONS

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



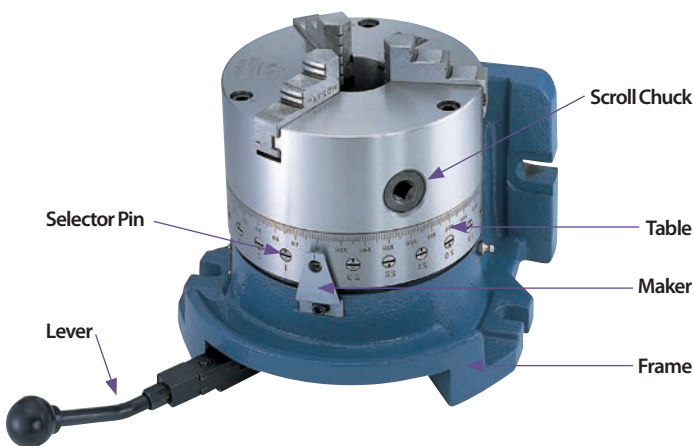
ONE ACTION POSITIONING

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



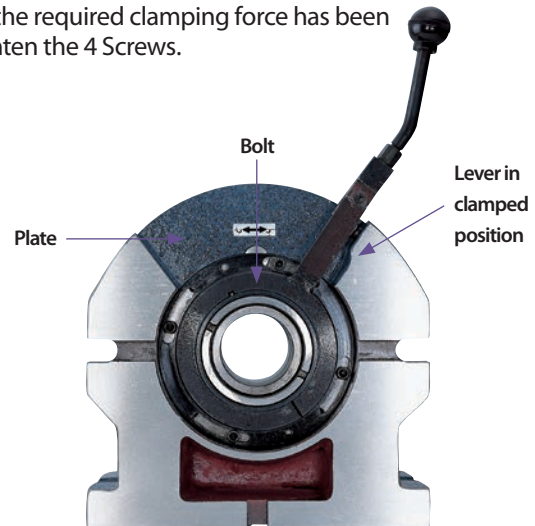
OPERATION

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



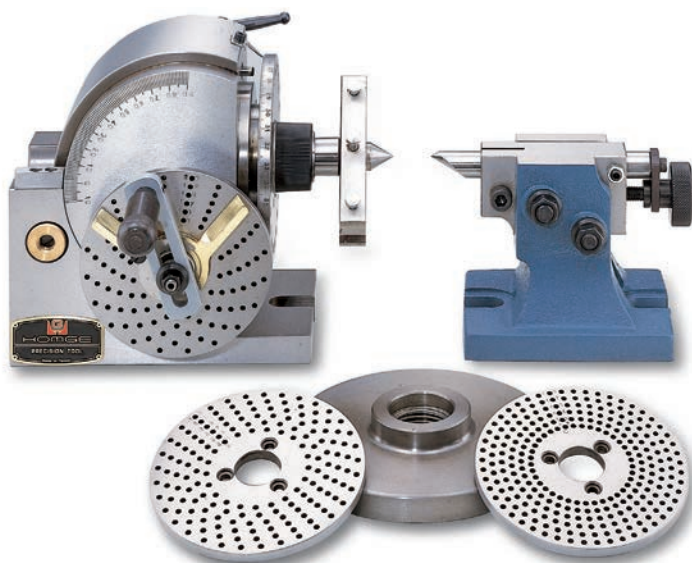
CLAMP FORCE ADJUSTMENT

- Turn the divider to view the underside.
- 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.
- Place Lever in unclamped position and rotate the Table by hand to check the amount of clamping force on the Table.
- 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 jams 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.



D-05~06

SEMI-UNIVERSAL DIVIDING HEAD

Model: BS-0, BS-1

Semi-Universal Dividing Head is a simplified type of Universal Index Center and can be used for direct and indirect dividing. No accessories for the differential dividing and spiral work are included, but the whole construction of the dividing head and tailstock are identical with those of the universal type.

The unit has a Direct Indexing Plate with 24 holes enabling the direct dividing of 2, 3, 4, 6, 8, 12 and 24 divisions. Three further Indexing Plates are provided as standard to facilitate indirect dividing of all divisions from 2 to 50 and also most useful divisions up to 380.

REMARK: " Operation and Service Manual " is included for reference

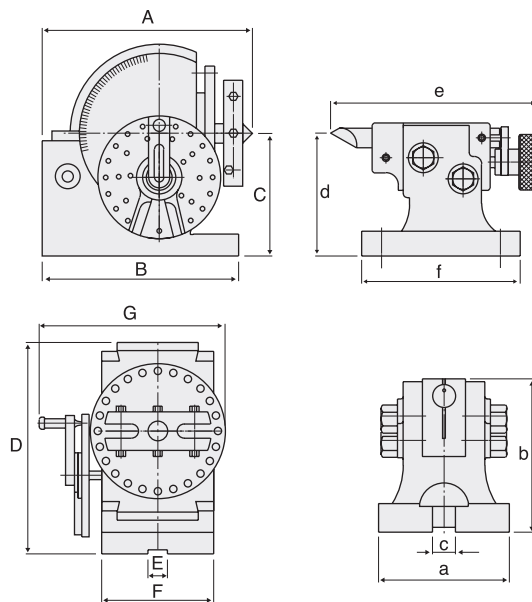


OPTIONAL ACCESSORY:

• 3-Jaw Chuck

4" or 5" 3-Jaw Chuck for BS-0

5" or 6" 3-Jaw Chuck for BS-1



SEMI-UNIVERSAL DIVIDING HEAD BS-0 & BS-1

Unit: mm / inch

NO	Model	A		B		C		D		E		F		G		Weight (kg)
D-05	BS-0	189	7 7/16	160	6 19/64	100	3 15/16	173	6 13/16	16	5/8	91	3 37/64	140	5 33/64	22
D-06	BS-1	293	11 11/32	210	8 17/64	128	5 3/32	220	8 21/32	16	5/8	114	4 31/64	156	6 9/64	36

TAIL-STOCK FOR SEMI-UNIVERSAL DIVIDING HEAD BS-0 & BS-1

Unit: mm / inch

NO	Model	a		b		c		d		e		f		Taper of Center	Diameter of Spindle hole
D-05	BS-0	90	3 35/64	105	4 9/64	16	5/8	100	3 15/16	166	6 34/64	127	5	B&S No.7	18
D-06	BS-1	108	4 1/14	134	5 18/64	16	5/8	128	5 3/32	184	7 1/4	150	5 29/32	B&S No.9	20

STANDARD ACCESSORIES:

DIVIDING PLATE A, B, C.

NUMBER OF HOLES OF DIVIDING PLATE (WORM GEAR REDUCTION RATIO 40:1)

Number 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



D-07

UNIVERSAL DIVIDING HEAD

Model: BS-2

The HOMGE'S Universal Dividing Head is designed for all types of gear cutting. Precision dividing and spiral dividing (except Type BS-0, and BS-1) work with greater precision and efficiency than has been possible before. The center face can be tilted from a horizontal position of 90° down to -10° from vertical, and inclinations can be read off a scale graduated in degrees. The center is built to the highest engineering standards and is factory inspected and tested to ensure complete satisfaction. The ratio of worm to gear is 40:1.

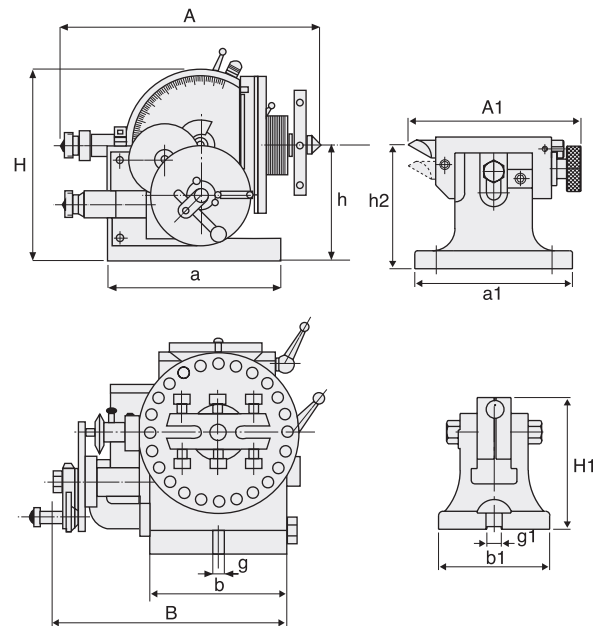
REMARK: " Operation and Service Manual " is included for reference



OPTIONAL ACCESSORY:

• 3-Jaw Chuck

6" or 7" 3-Jaw Chuck for BS-2



UNIVERSAL DIVIDING HEAD BS-2

Unit: mm / inch

NO	Model	A		B		H		h		a		b		g		Taper of center	Weight (kg)
D-07	BS-2	365	1413/32	272	1045/64	236	919/64	132.7	515/64	213	825/64	134	59/32	16	5/8	B&S No.10	73

TAIL STOCK FOR UNIVERSAL DIVIDING HEAD BS-2

Unit: mm / inch

NO	Model	A1		a1		b1		g1		H1		Center Height (h2)		Weight (kg)	Measurement M ³
D-07	BS-2	194	741/64	177	662/64	125	459/64	16	5/8	147	550/64	Max. 138	Min. 115	Packed with the Dividing Head	

STANDARD ACCESSORIES:

DIVIDING PLATE A, B, C.

NUMBER OF HOLES OF DIVIDING PLATE (WORM GEAR REDUCTION RATIO 40:1)

Number 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



OPTIONAL ACCESSORIES:

• Tail Stock.

TS-4 for CC-6"

TS-5 for CC-8"

• 3-Jaw Chuck

6" 3-Jaw Chuck for CC-6"

8" 3-Jaw Chuck for CC-8"

D-08~09

SIMPLE INDEXING SPACER

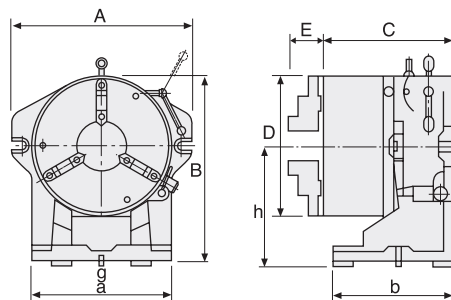
Model: CC-6", CC-8"

The Simple Indexing Spacer can be mounted on milling machines, drilling machines and other machine tool where an indexing facility is required. The 3-jaw chucks of both the CC-6" and the CC-8" models have a large through bores of 44mm and 63mm respectively.

These Indexing Spacers are designed for using in horizontal or vertical positions. The master Indexing plate has 24 divisions and is permanently fixed inside the indexer. Divisions of 2, 3, 4, 6, 8 and 12 can also be achieved by the use of the sub-plates, which can be installed quickly following these steps:

1. Open Rear Cover
2. Insert Plate
3. Close Cover
4. Loosen Locking Handle
5. Move Dividing Pin so as to separate it from the Master Plate.
6. Turn the Chuck. When the Master Plate and Sub Plate are aligned the Pin will lock into the slot automatically.
7. Fasten Locking Handle ready for machining.

REMARK: " Operation and Service Manual " is included for reference



SPECIFICATIONS

Unit: mm

NO	Model	Dividable Number	A	B	C	D	E	a	b	h	Inner jaw	Guide block g	Outer jaw	Diameter of hole(turret)	Diameter of hole(chuck)	Weight (kg)
D-08	CC-6"	2,3,4,6	260	218	133	167	27	190	110	125	4~42	16	10~156	44	36	32
D-09	CC-8"	8,12,24	312	270	157	210	28	220	135	150	4~62	16	10~180	63	63	55

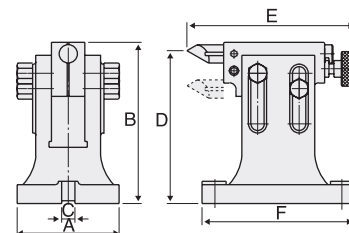


D-12~13

TAIL STOCK FOR CC, CS-TYPE

Model: TS-4, 5

When using indexing spacers in vertical position, these Tail Stocks can be used to support the workpiece and ensure accurate alignment.



SPECIFICATIONS

Unit: mm

NO	Order No.	Suitable for	A	B	C	Center Height		E	F	Weight (kg)
						Max.	Min.			
D-12	TS-4	CC-6"/CS-6"	125	147	16	138	115	194	177	8.2
D-13	TS-5	CC-8"/CS-8"	123	194	16	170	130	204	184	8.6



D-10~11

SUPER INDEXING SPACER

Model: CS-6", CS-8"

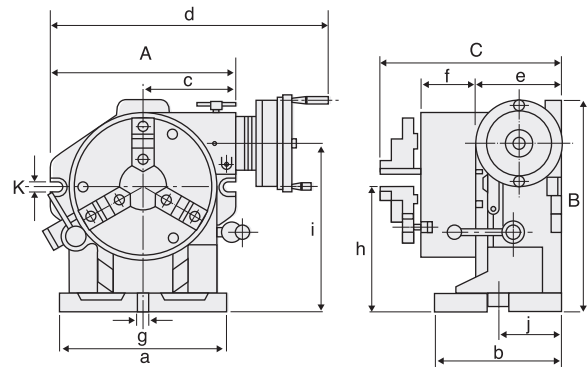
In addition to all of the features of the Simple Indexing Spacer, the Super Indexing Spacer incorporates a Worm Gear and is supplied with a Face Plate. With the further addition of the optional Dividing Plate Set, it can also be used as a Dividing Head. The WORM is hardened and precision ground to minimize the wear out of the WORM GEAR.

REMARK: " Operation and Service Manual " is included for reference



OPTIONAL ACCESSORIES:

- **Tail Stock**
TS-4 for CS-6"
TS-5 for CS-8"
- **Dividing Plate Set**
DP-4 for CS-6"
DP-5 for CS-8"
- **3-Jaw Chuck**
6" 3-Jaw Chuck for CS-6"
8" 3-Jaw Chuck for CS-8"



SPECIFICATIONS

Unit: mm

NO	Model	Dividable Number			Chuck								Face plate			
					Outer diameter		Inner jaw		Outer jaw		Inner dia.		Outer diameter		Thickness	
D-10	CS-6"	2, 3, 4, 6, 8, 12, 24			167		4~42		10~155		44		203		50	
D-11	CS-8"				210		4~62		10~180		63		254		58	
NO	Model	A	B	C	a	b	c	d	e	f	g	h	i	j	k	Weight(kg)
D-10	CS-6"	250	224	190	190	140	117	420	97	65	16	130	198	84	18	35
D-11	CS-8"	310	295	212	225	160	142	460	108	76	16	160	245	95	18	70

D-14

DIVIDING PLATE SET

Model: DP-4, 5

NUMBER OF HOLES:

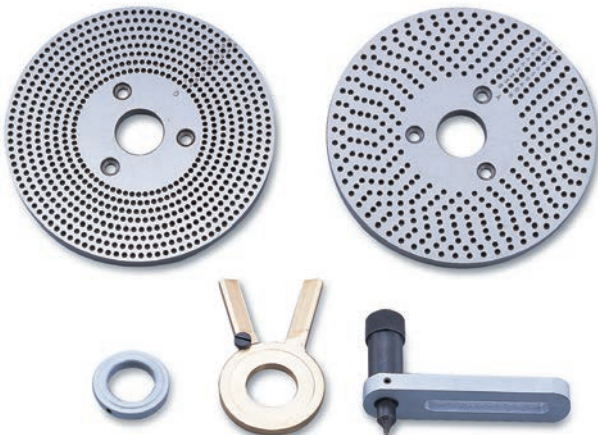
DP-4, 5

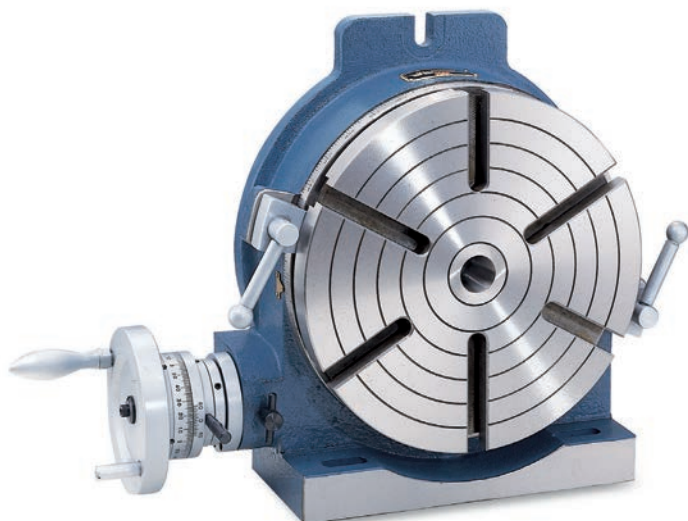
A Plate.... 26, 28, 30, 32, 34, 37, 38, 39, 41, 43, 44, 46, 47, 49, 51, 53, 57, 59

B Plate.... 61, 63, 67, 69, 71, 73, 77, 79, 81, 83, 87, 89, 91, 93, 97, 99

DP-4 for CS-6"

DP-5 for CS-8"





D-15~20

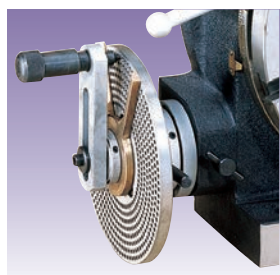
HORIZONTAL / VERTICAL ROTARY TABLE

Model: HHV-150, 200, 250, 300, 350, 400

The work table is graduated 360 degrees around its circumference and is driven by a precision Worm and Gear providing a 90:1 reduction ratio. One turn of the Handle moves the Table through 4 degrees. The dial is graduated in divisions of 1 min. and the vernier scale allows readings down to 10 seconds.

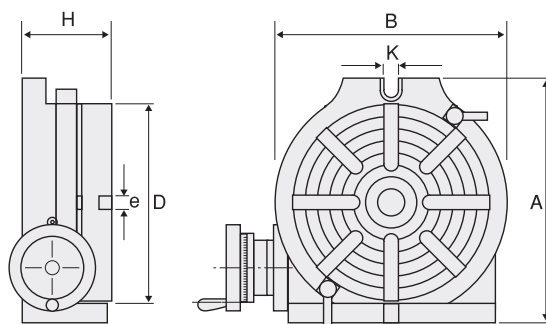
- The Worm is hardened and precision ground to minimize wear out of the WORM GEAR.
- Both the upper and the lower surface of the ROTARY PLATES are precision ground.

REMARK: " Operation and Service Manual " is included for reference



OPTIONAL ACCESSORIES:

- Tail Stock
- Dividing Plate Set
- 3-Jaw Chuck



SPECIFICATIONS

Unit: mm

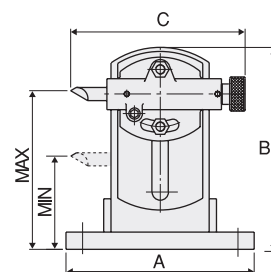
NO	Model	Table		Base dimension		Bolt slots	Center sleeve	Worm gear ratio	Weight (kg)
		D	H	A	B	K			
D-15	HHV-150	150	92	220	160	18	MT-2	90 : 1	12.5
D-16	HHV-200	200	120	310	225	18	MT-3		31.0
D-17	HHV-250	250	120	320	280	18	MT-3		48.5
D-18	HHV-300	300	140	410	325	18	MT-4		77.0
D-19	HHV-350	350	140	460	380	18	MT-4		98
D-20	HHV-400	400	140	510	435	18	MT-5		130

D-26~28

TAIL STOCK

Model: TS-1, 2, 3

This TAIL STOCK can be used for accurate centring when the Rotary Table is used in vertical position.



SPECIFICATIONS

Unit: mm

NO	Order No.	Suitable for	A	B	C	Center Height		Weight (kg)
						Max.	Min.	
D-26	TS-1	HHV-200 / HHV-250	230	247	210	190	110	13
D-27	TS-2	HHV-300	230	280	210	220	140	15
D-28	TS-3	HHV-350 / HHV-400	230	330	210	264	184	17

D-21~25

HORIZONTAL ROTARY TABLE

Model: HHT-150, 200, 250, 300, 350

The 'HOMGE' HORIZONTAL ROTARY TABLES have a sturdy design to suit many machining operations on Milling Machines including circular cutting, setting angles and indexing. They are available in a range of sizes to suit various machines and machining applications.

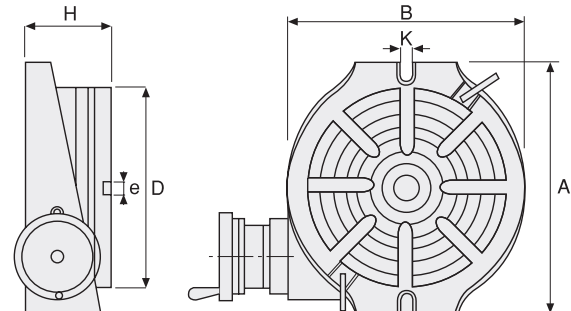
- The Worm is hardened and precision ground to minimize wear out of the WORM GEAR.
- Both the upper and the lower surface of the ROTARY PLATES are precision ground.

REMARK: "Operation and Service Manual" is included for reference



OPTIONAL ACCESSORIES:

- Dividing Plate Set
- 3-Jaw Chuck



SPECIFICATIONS

Unit: mm

NO	Model	Table		Base dimension		Bolt slots	Center sleeve	Worm gear ratio	Weight (kg)
		D	H	A	B	K			
D-21	HHT-150	150	88	220	160	18	MT-2	90 : 1	15
D-22	HHT-200	200	110	310	225	18	MT-3		33
D-23	HHT-250	250	110	365	280	18	MT-3		46
D-24	HHT-300	300	130	380	350	18	MT-4		73
D-25	HHT-350	350	130	450	380	18	MT-4		90

D-29~31

DIVIDING PLATE SET

Model: DP-1, 2, 3

The DIVIDING PLATE SET is consist of 2 Indexing Plates, a Sector and a Handle with Plunger. Using this DIVIDING PLATE SET, the indexing of 2 to 100 divisions can be attained quickly and accurately.

NUMBER OF HOLES:

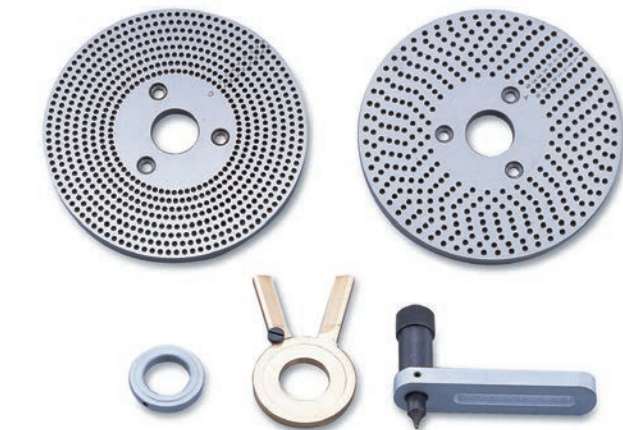
DP-1 A Plate / 15, 16, 17, 18, 19, 20

B Plate / 21, 23, 27, 29, 31, 33

C Plate / 37, 39, 41, 43, 47, 49

DP-2, 3, A Plate / 26, 28, 30, 32, 34, 37, 38, 39, 41, 43, 44, 46, 47, 49, 51, 53, 57, 59

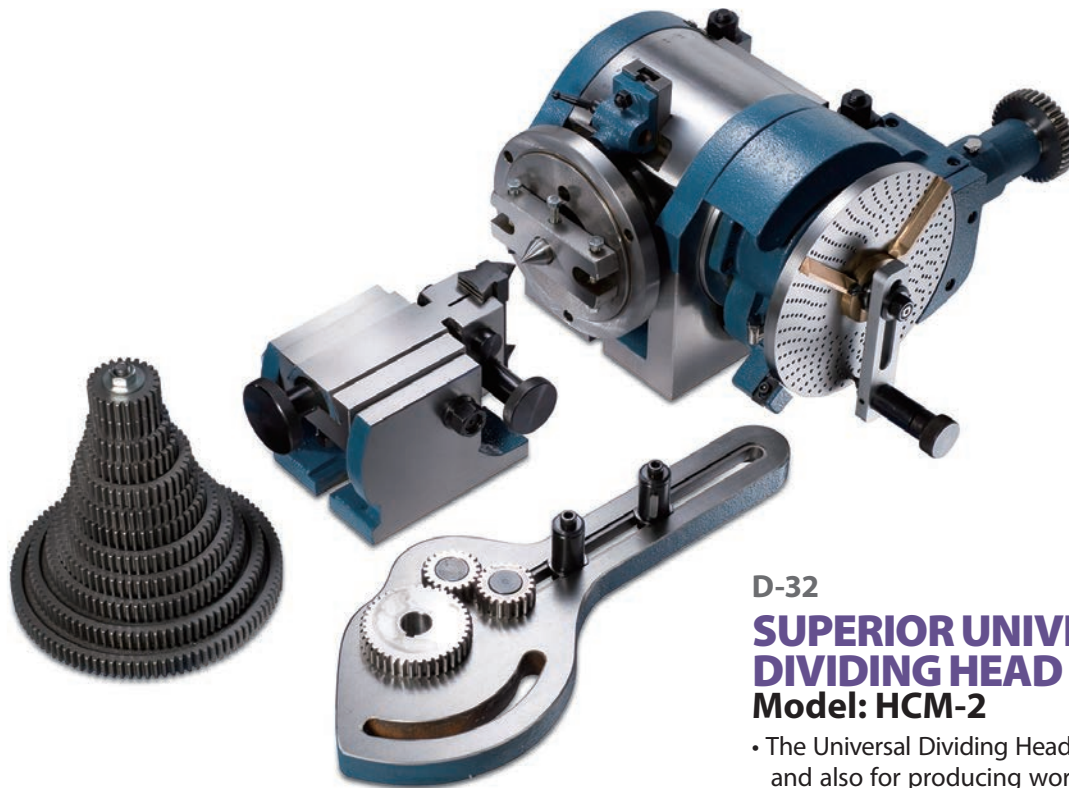
B Plate / 61, 63, 67, 69, 71, 73, 77, 79, 81, 83, 87, 89, 91, 93, 97, 99



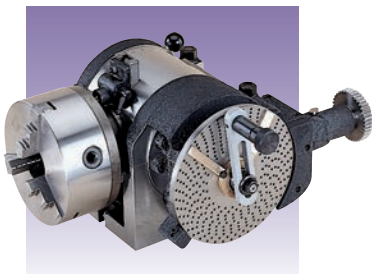
SPECIFICATIONS

Unit: mm/inch

NO	Model	Suitable for	Major dimension of DM							Weight (kg)
			Dividing plate set screw	Inner diameter of sector arm	Outer diameter of spring clip	Grove width in handle plate				
D-29	DP-1	HHV-150 / HHT-150	PCD. $\frac{32}{1.26} \varnothing$	21	0.83	18	0.71	9	0.03	2.5
D-30	DP-2	HHV-200, 250 / HHT-200, 250	PCD. (3holes) $\frac{46}{1.81}$	28.7	1.12	44	1.73	10	0.39	4
D-31	DP-3	HHV-300, 350, 400 / HHT-300, 350	PCD. (3holes) $\frac{46}{1.81}$	28.7	1.12	44	1.73	10	0.39	4

**D-32****SUPERIOR UNIVERSAL
DIVIDING HEAD****Model: HCM-2**

- The Universal Dividing Head can be used for Simple Dividing and also for producing worms, by changing gears and gear quadrant. A particular feature of the HOMGE design is the 55.5mm through bore and MT6 taper. Furthermore, the unit can also be tilted from 0 to 90 degrees.
- The Spindle, Worm and Gear are made of a high grade steel, hardened and ground for high accuracy and durability.
- The Tail Stock is designed with a dovetail construction for high rigidity and can be adjusted in each direction to achieve the correct alignment.
- The Worm and Gear provide a reduction ratio of 40:1 and the unit is supplied with a double sided Dividing Plate.
- Providing divisions on face A of 24, 25, 28, 30, 34, 37, 39, 41, 42 & 43 and on face B of 46, 47, 49, 51, 53, 54, 57, 58, 59, 62 & 66.
- The Change Gears supplied are 24, 28, 32, 38, 40, 44, 48, 56, 64, 72, 86 & 100 Teeth. Thus, a very wide and comprehensive range of indexing is achievable.
- Each Universal Dividing Head is supplied complete with center, carrier, change gear quadrant, set of change gears, Tail Stock and Dividing Plate.

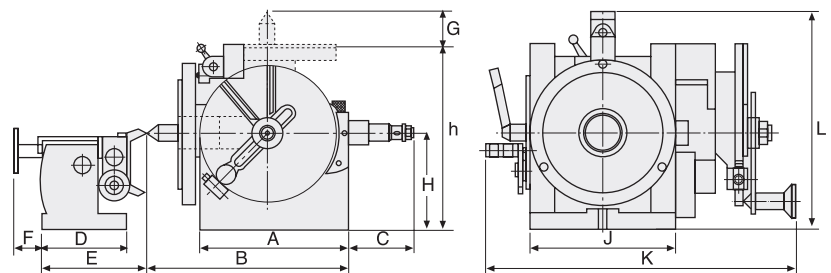
**OPTIONAL ACCESSORY:**

- 7" 3-Jaw Chuck

Center Height of Tail Stock

Max. 165 mm

Min. 38 mm



Unit: mm/inch

SPECIFICATIONS

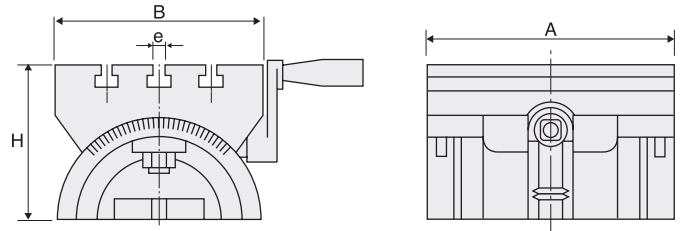
	Model	A		B		C		D		E		F		G	
D-32	HCM-2	245	921/23	322	1211/16	152	6	166	617/32	198	725/32	50	115/16	52	21/16
NO	Model	H		h		J		K		L		Weight (kg)			
D-32	HCM-2	143	55/8	278	1015/16	194	75/8	465	185/16	290	1113/32	132			

ANGLE FIXTURES



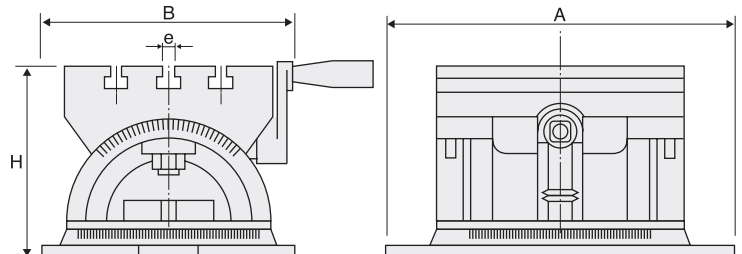
**P-01~04****TILTING TABLE****Model: HAP-180, 250, 380, 600**

- Worm and Crank Handle for easy adjustment
- Adjustable 43-45 degrees
- Angle markings are accurate and easy to read
- Swivel Base available

**SPECIFICATIONS**

Unit: mm

NO	Model	B	A	H	T-SLOT	Weight (kg)
					e	
P-01	HAP-180	130	180	91	12	7.5
P-02	HAP-250	178	250	133	12	22.5
P-03	HAP-380	260	380	185	16	69
P-04	HAP-600	310	600	205	18	132

**P-05~07****TILTING TABLE
WITH SWIVEL BASE****Model: HAP-180S, 250S, 380S****SPECIFICATIONS**

Unit: mm

NO	Model	B	A	H	T-SLOT	Weight (kg)
					e	
P-05	HAP-180S	220	265	135	12	12
P-06	HAP-250S	305	350	185	12	40
P-07	HAP-380S	436	490	240	16	100

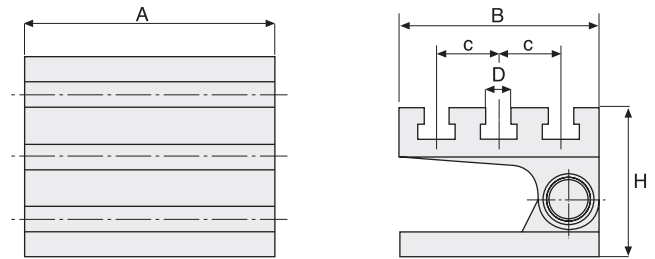


P-08~11

TITLING ANGLE PLATE

Model: HSAP-1, 2, 3, 4

These Tilting Angle Plates are available in a range of sizes. They are designed primarily for simple, quick angle adjustment and angle setting on Drilling and Milling Machines.



SPECIFICATIONS

Unit: mm

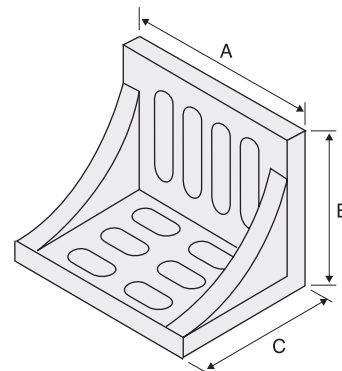
NO	Model	A	B	C	D	H	Weight (kg)
P-08	HSAP-1	204	154	46	13	130	12
P-09	HSAP-2	256	204	64	16	170	26
P-10	HSAP-3	306	254	68	16	196	45
P-11	HSAP-4	386	308	80	16	210	78



P-12~16

SLOTTED ANGLE PLATE (PRECISION GROUND)

Model: HL-4", 6", 8", 10", 12"



SPECIFICATIONS

Unit: inch

NO	Model	A	B	C	Weight (kg)
P-12	HL-4"	4-1/2"	3-1/2"	3"	2
P-13	HL-6"	6"	5"	4-1/2"	3.5
P-14	HL-8"	8"	6"	5"	7
P-15	HL-10"	10"	8"	6"	12
P-16	HL-12"	12"	9"	8"	25



MILLING ATTACHMENTS



M-01~03

RIGHT ANGLE MILLING HEAD

Model: R8, NT-30, NT-40

- Precision berel gear
- Rigid design
- Quick and simple to fit and detach
- Weight: R8 / 13kgs, NT30 / 13kgs, NT40 / 21kgs



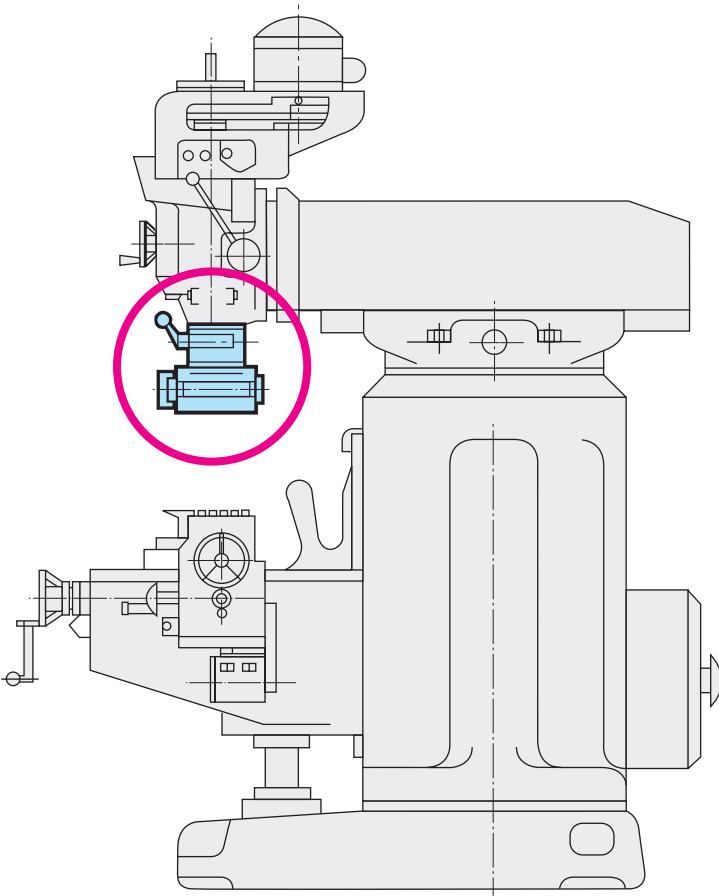
M-04~06

HORIZONTAL MILLING ATTACHMENT (RIGHT ANGLE MILLING HEAD+ARBOR+SUPPORT)

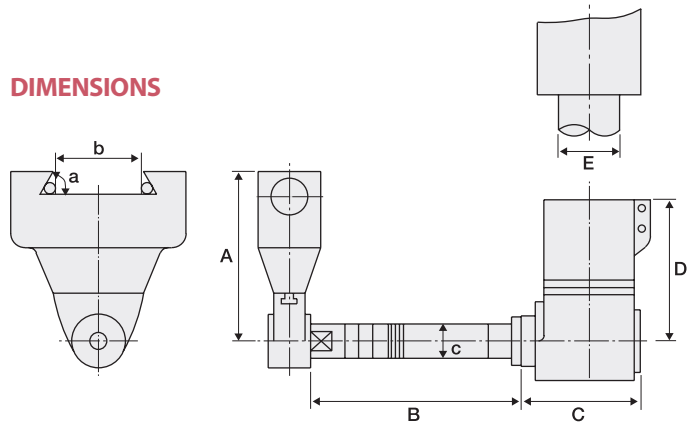
Model: R8, NT-30, NT-40

Arbor (1" or 25mm or 27mm)
Support (Dove Tial 50 or 60)

- Weight: R8 / 25kgs, NT30 / 30kgs, NT40 / 32kgs



DIMENSIONS



SPECIFICATIONS

Unit: mm

Model	A	B	C	D	Suitable Milling Head Guile Limewater(E)
R-8	225	230	137	180	85.725~86
NT-30	225	230	155	173	85.725~86
NT-40	225	230	185	178	85.725~115

HORIZONTAL MILLING ARBOR SUPPORT

a	Suitable M/C Ran devotion width (b)	c
50°	140~170	1" or 27mm
55°	140~170	1" or 27mm
60°	140~170	1" or 27mm

