



# SAI TRUMAN<sup>TM</sup> ENTERPRISES

Fixture Clamps | Toggle Clamps | Milling & Machine Vices | Hydraulic Vices | Vibration Pads

Pneumatic & Hydraulic Clamps | Milling & Grinding Accessories | Clamping Devices

Die & Mould Clamps | Clamping Elements | Collet Chucks | Knurling Wheel & Holders

ER Collets | Tapping Attachment & Tap Collets | Tool Trolley

[www.saitruman.in](http://www.saitruman.in)

## UNIVERSAL STRAP CLAMP

For power presses, milling, drilling, shaping and boring. Supplied complete with T-Bolt, Nut etc.

MODEL	SUITABLE FOR T-SLOT SIZE	CLAMPING RANGE
USC-12(a)	12	0-60
USC-12(b)	14	0-60
USC-16(a)	16	0-80
USC-16(b)	18	0-80
USC-20(a)	20	0-100
USC-20(b)	22	0-100
USC-24(a)	24	0-120
USC-24(b)	28	0-120



## MOULD CLAMP

For mould clamping on plastic injection moulding & pressure die casting machines. Supplied complete with T-Bolt or Stud and Nut etc.

### MOULD CLAMP - WITH CLAMPING STUD

MODEL	DIA x PITCH x LENGTH	CLAMPING HEIGHT RANGE
MC-12	STUD M-12 x 1.75 x 100	0-35
MC-16	STUD M-16 x 2.0 x 125	0-40
MC-20	STUD M-20 x 2.5 x 175	0-50
MC-24	STUD M-24 x 3.0 x 200	0-60



### MOULD CLAMP - WITH T-BOLT

MODEL	SUITABLE FOR T-SLOT SIZE	CLAMPING HEIGHT RANGE
MC-12(a)	12	0-35
MC-12(b)	14	0-35
MC-16(a)	16	0-40
MC-16(b)	18	0-40
MC-20(a)	20	0-50
MC-20(b)	22	0-50
MC-24(a)	24	0-60
MC-24(b)	28	0-60



## MOULD CLAMP - FORGED

'TOOLFAST' mould clamp is now available in forged steel body for extra strength.

### MOULD CLAMP - WITH CLAMPING STUD

MODEL	DIA x PITCH x LENGTH	CLAMPING HEIGHT RANGE
MCF-12	STUD M-12 x 1.75 x 100	0-35
MCF-16	STUD M-16 x 2.0 x 125	0-50
MCF-20	STUD M-20 x 2.5 x 175	0-65
MCF-24	STUD M-24 x 3.0 x 200	0-75



### MOULD CLAMP - WITH T-BOLT

MODEL	SUITABLE FOR T-SLOT SIZE	CLAMPING HEIGHT RANGE
MCF-12(a)	12	0-35
MCF-12(b)	14	0-35
MCF-16(a)	16	0-50
MCF-16(b)	18	0-50
MCF-20(a)	20	0-65
MCF-20(b)	22	0-65
MCF-24(a)	24	0-75
MCF-24(b)	28	0-75



## TAPPED END CLAMP WITH ADJUSTABLE SUPPORT

For mould clamping on plastic injection moulding & pressure die casting machines. Supplied only with threaded support.

MODEL	SUITABLE FOR BOLT	LENGTH
TTUC-12	M-12	110
TTUC-16	M-16	125
TTUC-20	M-20	160
TTUC-24	M-24	200



## FORGED STRAP CLAMP WITH TAPPED END

Most suitable for mould clamping on Plastic Injection Moulding Machine.

MODEL	SUITABLE FOR BOLT	TOTAL LENGTH	TAPPED END
TTFC-16	M-16	152	M-16



Also available as Model TTFC-16S with threaded support TS-16 (M-16X70 Long).

## COMPACT MILLING CLAMP

The most multi-purpose, quick and easy to use down-hold milling clamp.

MODEL	CLAMPING HEIGHT RANGE	SUITABLE FOR T-SLOT SIZE	CLAMPING FORCE
CMC-12	0-125	12	1600kgs.
CMC-14	0-125	14	1600kgs.
CMC-16	0-125	16	1600kgs.
CMC-18	0-125	18	1600kgs.



### HEIGHT BLOCK FOR CMC CLAMP :

By stacking one Height block over another and a CMC clamp at the top can enable clamping of any height of workpiece. Each height block model HB-CMC-75 increases clamping height range by 75mm.

Height Block HB-CMC-75

## LOW HEIGHT PINCH CLAMP

For side clamping on VMC, milling, shaping, planning, jig boring etc.

MODEL	SUITABLE FOR T-SLOT SIZE	CLAMP THICKNESS	TOTAL LENGTH
PC-1(a)	12	15	115
PC-1(b)	14	15	115
PC-2	16	18	145
PC-3	18	18	145
PC-4(a)	20	24	180
PC-4(b)	22	24	180
PC-5(a)	24	24	180
PC-5(b)	28	24	180



## HEAVY DUTY PINCH CLAMP

For side clamping of thicker plates on VMC, milling, planning, plano-milling etc.

MODEL	SUITABLE FOR T-SLOT SIZE	CLAMP THICKNESS	TOTAL LENGTH
HDPC-1(a)	18	38	185
HDPC-1(b)	20	38	185
HDPC-2(a)	22	38	185
HDPC-2(b)	24	38	185
HDPC-3	28	38	185



## STOP FOR PINCH CLAMPS

Stop or Stopper block to be mounted on the opposite side of workpiece while clamping with PC Series or HDPC series pinch clamps.

MODEL	SUITABLE FOR PINCH CLAMP MODEL	THICKNESS	TOTAL LENGTH
ST-PC-1A	PC-1(a)	15	55
ST-PC-1B	PC-1(b)	15	55
ST-PC-2	PC-2	18	66
ST-PC-3	PC-3	18	66
ST-PC-4A	PC-4(a)	24	95
ST-PC-4B	PC-4(b)	24	95
ST-PC-5A	PC-5(a)	24	95
ST-PC-5B	PC-5(b)	24	95
ST-HDPC-1A	HDPC-1(a)	38	95
ST-HDPC-1B	HDPC-1(b)	38	95
ST-HDPC-2A	HDPC-2(a)	38	95
ST-HDPC-2B	HDPC-2(b)	38	95
ST-HDPC-3	HDPC-3	38	95



## LOW HEIGHT PINCH CLAMP AND STOP WITH STEP

This is a new version of low height pinch clamp (PC Series) having step to support the workpiece above the machine table for through milling and drilling.



MODE	SUITABLE FOR T-SLOT SIZE
PCS-1A	12
PCS-1B	14
PCS-2	16
PCS-3	18

Low Height Pinch Clamp With Step



Stop For Above Pinch Clamp With Step

## MINI PINCH CLAMP

For side clamping of thin plates on VMC, milling, shaping & planning.

MODEL	SUITABLE FOR T-SLOT SIZE
MPC-1	14
MPC-2	16
MPC-3	18



## LEVELLING JACKS & HEIGHT BLOCKS

### LEVELLING JACK

MODEL	MIN. HEIGHT	MAX. HEIGHT	TYPE OF TOP FACE	SCREW THREAD	MAX. LOAD TONS
LJ-1(a)	75	100	FLAT 38Ø	M-24	5.0
LJ-1(b)	100	150	FLAT 38Ø	M-24	5.0
LJ-2	120	170	CONICAL	M-24	5.0
LJ-3	105	155	'V'	M-24	5.0



### HEIGHT BLOCK FOR LEVELLING JACK

MODEL	EFFECTIVE HEIGHT INCREASE WITH ONE HEIGHT BLOCK
HBLJ-75	75

### LEVELLING JACK - HEAVY DUTY

MODEL	MIN. HEIGHT	MAX. HEIGHT	TYPE OF TOP FACE	SCREW THREAD	MAX. LOAD TONS
LJ-HD	160	230	FLAT 50Ø	32Ø	8.0

### HEIGHT BLOCK FOR LEVELLING JACK - HEAVY DUTY

MODEL	EFFECTIVE HEIGHT INCREASE WITH ONE HEIGHT BLOCK
HBLJ-HD-75	75

### LEVELLING JACK - HEAVY DUTY FLANGE MOUNTING

MODEL	MIN. HEIGHT	MAX. HEIGHT	TYPE OF TOP FACE	SCREW THREAD	MAX. LOAD TONS
LJ-HD-FB	160	230	FLAT 50Ø	32Ø	8.0



### SCREW JACK - HEAVY DUTY

MODEL	MIN. HEIGHT	MAX. HEIGHT	TYPE OF TOP FACE	SCREW THREAD	MAX. LOAD TONS
SJ-HD-1	250	400	FLAT 75Ø	40Ø	25
SJ-HD-2	380	660	FLAT 75Ø	40Ø	25



### STEP BLOCKS

For clamp support.

#### STEP BLOCK

MODEL	WIDTH	HEIGHT ADJUSTMENT	
		MINIMUM	MAXIMUM
TSB-1L	24	20	44
TSB-2L	24	40	100
TSB-3L	24	60	155
TSB-1	30	20	44
TSB-2	30	40	100
TSB-3	30	60	155



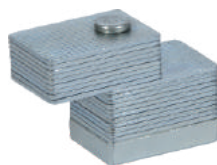
#### STEP BLOCK - HEAVY DUTY

MODEL	WIDTH	HEIGHT ADJUSTMENT	
		MINIMUM	MAXIMUM
THSB-5	48	40	100
THSB-6	48	72	180

### ADJUSTABLE SUPPORT PLATES

For clamp support.

MODEL	MAXIMUM HEIGHT	CLAMP REST AREA	PLATE THICKNESS
TASP-250	50	25 X 35	2
TASP-2100	100	25 X 35	2
TASP-2150	150	25 X 35	2
TASP-L-250	50	35 X 50	2
TASP-L-2100	100	35 X 50	2
TASP-L-2150	150	35 X 50	2



### THREADED SUPPORT FOR TAPPED END CLAMPS

These have large resting base and hexagon at bottom for height adjustment.

MODEL	DIA AT BOTTOM	THREAD SIZE	OVERALL LENGTH
TS-12	30	M-12 x 1.75 P	60
TS-16	35	M-16 x 2.0 P	70
TS-20	40	M-20 x 2.5 P	80
TS-24	50	M-24 x 3.0 P	85



### STRAP CLAMP Hardened & tempered, Black Finish

based on IS:4292

MODEL	SUITABLE FOR BOLT	LENGTH
TSC-8-60	M-8	60
TSC-10-80	M-10	80
TSC-12-100	M-12	100
TSC-12-125	M-12	125
TSC-14-125	M-14	125
TSC-16-125	M-16	125
TSC-16-160	M-16	160
TSC-20-160	M-20	160
TSC-20-200	M-20	200
TSC-24-200	M-24	200
TSC-24-250	M-24	250
TSC-30-250	M-30	250



### STRAP CLAMP - FORGED BODY

Hardened & tempered, tapped end.

MODEL	SUITABLE FOR BOLT	TOTAL LENGTH
TSCF-12	M-12	120
TSCF-16	M-16	140
TSCF-20	M-20	180
TSCF-24	M-24	220



### PLAIN CLAMP Hardened & Tempered

These are economy models of strap clamps. Can be used where simple shape of a plain strap can serve the purpose.

MODEL	SUITABLE FOR BOLT	TOTAL LENGTH
TES-12	M-12	70
TES-16	M-16	90



### STEPPED STRAP CLAMP Hardened & Tempered, Black Finish

To be used with step block.

MODEL	SUITABLE FOR BOLT	LENGTH
TSSC-10-60	M-10	60
TSSC-10-80	M-10	80
TSSC-10-120	M-10	120
TSSC-12-65	M-12	65
TSSC-12-100	M-12	100
TSSC-12-125	M-12	125
TSSC-16-75	M-16	75
TSSC-16-125	M-16	125
TSSC-16-160	M-16	160
TSSC-20-160	M-20	160
TSSC-24-200	M-24	200



### GOOSE NECK CLAMP- FORGED - TAPPED END

MODEL	SUITABLE FOR BOLT	LENGTH
TGNCF-16	M-16	125
TGNCF-20	M-20	165
TGNCF-24	M-24	200



### U - CLAMP Hardened & Tempered, black finish

based on IS:4293

MODEL	SUITABLE FOR BOLT	LENGTH
TUC-12-160	M-12	160
TUC-16-200	M-16	200
TUC-20-250	M-20	250
TUC-24-250	M-24	250



### FINGER STRAP CLAMP Hardened & Tempered

MODEL	SUITABLE FOR BOLT	TOTAL LENGTH
TCF -16	M-16	152



### CAM CLAMP Hold Down Type

Most ideal for quick Hold Down Clamping in fixtures. Conventional Strap Clamps in fixtures can be replaced by these quick acting Cam clamps without much effort. These clamps have high clamping force suitable for machining fixtures.

MODEL	CLAMPING BOLT	HOLDING CAPACITY
TCC-10	M-10	1400 Kgs.
TCC-12	M-12	2000 Kgs.



2D / 3D CAD files available on request

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## T- NUT Hardened & Tempered, Black Finish

based on IS:2015

MODEL	THREAD SIZE	SUITABLE FOR T-SLOT SIZE	SIZE S
TTN-10-8	M-8	10	15
TTN-12-10*	M-10	12	18
TTN-14-10	M-10	14	22
TTN-14-12*	M-12	14	22
TTN-16-12	M-12	16	25
TTN-16-14*	M-14	16	25
TTN-18-12	M-12	18	28
TTN-18-16*	M-16	18	28
TTN-20-16	M-16	20	32
TTN-22-16	M-16	22	35
TTN-22-20*	M-20	22	35
TTN-24-20	M-20	24	40
TTN-28-24	M-24	28	44
TTN-36-24	M-24	36	54
TTN-36-30	M-30	36	54



\* marked models are not recommended for heavy duty use because of less wall thickness outside the threading.

## CLAMPING STUD Hardend & Tempered, High Tensile Steel, Black Finish

For use with T-nuts.

MODEL	THREAD SIZE	TOTAL LENGTH	THREAD LENGTH
TCS-8-75	M-8	75	11 X 48
TCS-8-100		100	11 X 63
TCS-8-150		150	11 X 95
TCS-10-75	M-10	75	13 X 48
TCS-10-100		100	13 X 63
TCS-10-125		125	13 X 75
TCS-10-150		150	13 X 95
TCS-10-175		175	13 X 110
TCS-10-200	200	13 X 125	
TCS-12-75	M-12	75	15 X 48
TCS-12-100		100	15 X 63
TCS-12-125		125	15 X 75
TCS-12-150		150	15 X 95
TCS-12-175		175	15 X 110
TCS-12-200	200	15 X 125	
TCS-12-250	250	15 X 160	
TCS-12-300	300	15 X 190	
TCS-14-100	M-14	100	17 X 63
TCS-14-150		150	17 X 95
TCS-14-200		200	17 X 125
TCS-14-250		250	17 X 160
TCS-16-75	M-16	75	19 X 50
TCS-16-100		100	19 X 63
TCS-16-125		125	19 X 75
TCS-16-150		150	19 X 95
TCS-16-175		175	19 X 110
TCS-16-200		200	19 X 125
TCS-16-250		250	19 X 160
TCS-16-300	300	19 X 190	
TCS-20-100	M-20	100	27 X 60
TCS-20-150		150	27 X 95
TCS-20-200		200	27 X 125
TCS-20-250		250	27 X 160
TCS-20-300		300	27 X 190
TCS-20-400		400	27 X 250
TCS-20-500	500	27 X 250	
TCS-24-150	M-24	150	35 X 95
TCS-24-200		200	35 X 120
TCS-24-250		250	35 X 160
TCS-24-300		300	35 X 190
TCS-24-400		400	35 X 250
TCS-24-500	500	35 X 250	
TCS-30-150	M-30	150	43 X 95
TCS-30-200		200	43 X 120
TCS-30-250		250	43 X 160
TCS-30-300		300	43 X 190
TCS-30-400		400	43 X 250
TCS-30-500	500	43 X 250	



## CLAMPING STUD Hardend & Tempered, High Tensile Steel, Black Finish

With hex key hole at top face for use on machine beds having tapped holes.

MODEL	THREAD SIZE	TOTAL LENGTH	THREAD LENGTH
TCSB-12-100	M-12	100	30 X 40
TCSB-12-125		125	30 X 50
TCSB-12-150		150	30 X 65
TCSB-12-175	175	30 X 80	
TCSB-16-125	M-16	125	40 X 50
TCSB-16-150		150	40 X 65
TCSB-16-175		175	40 X 80
TCSB-16-200		200	40 X 100
TCSB-18-150	M-18	150	40 X 65
TCSB-18-175		175	40 X 80
TCSB-18-200		200	40 X 100
TCSB-20-150	M-20	150	50 X 60
TCSB-20-175		175	50 X 70
TCSB-20-200		200	50 X 80
TCSB-22-150	M-22	150	50 X 60
TCSB-22-175		175	50 X 70
TCSB-22-200		200	50 X 80
TCSB-24-175		M-24	175
TCSB-24-200	200		60 X 80
TCSB-24-225	225		60 X 90



## T-BOLT Forged Head, Hardened & Tempered, High Tensile Steel, Black Finish

MODEL	SUITABLE FOR T-SLOT SIZE	SIZE E	THREAD SIZE	LENGTH L
TTB-1212-80	12	18	M12	80
TTB-1212-100				100
TTB-1212-160				160
TTB-1214-60	14	22	M12	60
TTB-1214-80				80
TTB-1214-100				100
TTB-1214-125				125
TTB-1214-160				160
TTB-1214-200	200			
TTB-1616-80	16	25	M16	80
TTB-1616-130				130
TTB-1616-200				200
TTB-1618-80	18	28	M16	80
TTB-1618-100				100
TTB-1618-130				130
TTB-1618-160				160
TTB-1618-200				200
TTB-1618-250				250
TTB-1618-290	290			
TTB-2020-110	20	32	M20	110
TTB-2020-150				150
TTB-2020-210	22	35	M20	210
TTB-2022-110				110
TTB-2022-150				150
TTB-2022-210				210
TTB-2022-285	24	40	M24	285
TTB-2424-150				150
TTB-2424-210				210
TTB-2428-110	28	44	M24	110
TTB-2428-150				150
TTB-2428-210				210
TTB-2428-250				250
TTB-2428-300				300
TTB-3036-200	36	54	M30	200
TTB-3036-250				250
TTB-3036-300				300



## FLANGED NUT Forged, Hardened & Tempered, Black Finish

These nuts have flanged face for larger face contact with the surface to be tightened on

MODEL	THREAD SIZE	TOTAL LENGTH
TFN-10	M-10	15
TFN-12	M-12	18
TFN-16	M-16	24
TFN-20	M-20	30
TFN-24	M-24	36



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### EXTRA LONG NUT Hardened & Tempered, Black Finish

These nuts have longer life as they have more number of threads than ordinary nuts.

MODEL	THREAD SIZE	TOTAL LENGTH
TELN-8	M-8	12
TELN-10	M-10	15
TELN-12	M-12	18
TELN-14	M-14	21
TELN-16	M-16	24
TELN-18	M-18	27
TELN-20	M-20	30
TELN-22	M-22	32
TELN-24	M-24	36
TELN-30	M-30	45



### EXTENSION NUT Hardened & Tempered, Black Finish

These nuts are used to couple the studs with studs or T-bolts in order to increase their length.

MODEL	THREAD SIZE	TOTAL LENGTH
TEN-8	M-8	24
TEN-10	M-10	30
TEN-12	M-12	36
TEN-14	M-14	42
TEN-16	M-16	48
TEN-20	M-20	60
TEN-24	M-24	72
TEN-30	M-30	90



### PLAIN WASHER Case Hardened, Black Finish

based on IS : 4291

MODEL	SUITABLE FOR BOLT	THICKNESS	OUTSIDE DIA
TPW-8	M-8	4	23
TPW-10	M-10	4	28
TPW-12	M-12	5	35
TPW-14	M-14	6	40
TPW-16	M-16	7	45
TPW-18	M-18	7	48
TPW-20	M-20	7	48
TPW-22	M-22	8	48
TPW-24	M-24	9	60
TPW-30	M-30	11	70



### C-WASHER Case Hardened, Ground Faces, Black Finish

based on IS : 4291

Knurled outside diameter for easy gripping while quick insertion or removal.

MODEL	SUITABLE FOR BOLT	THICKNESS	OUTSIDE DIA
TCW-10	M-10	9	40
TCW-12	M-12	9	48
TCW-14	M-14	11	63
TCW-16	M-16	11	63
TCW-20	M-20	11	80
TCW-24	M-24	11	100
TCW-30	M-30	14	100



### CLAMPING KIT - 34 PIECE with adjustable support plates & strap clamps



MODEL	SUITABLE FOR T-SLOT SIZE	THREAD SIZE
TCK-34-1412	14	M-12
TCK-34-1612	16	M-12
TCK-34-1812	18	M-12

Consists of :

T-Nuts	: 4 nos.
Clamping Studs of four different lengths	: 4 nos. each
Flanged Nuts	: 4 nos.
Extension Nuts	: 2 nos.
Strap Clamps of two d	
Adjustable Support Pl	

### CLAMPING KIT - 58 PIECE with step blocks & stepped strap clamps



MODEL	SUITABLE FOR T-SLOT SIZE	THREAD SIZE	N.W. Kgs.
TCK-58-1210	12	M-10	9
TCK-58-1410	14	M-10	9
TCK-58-1412L	14	M-12	12
TCK-58-1412	14	M-12	13
TCK-58-1612L	16	M-12	12
TCK-58-1612	16	M-12	13
TCK-58-1812	18	M-12	13
TCK-58-1816	18	M-16	18
TCK-58-2016	20	M-16	18
TCK-58-2216	22	M-16	19

Consists of :

T-Nuts	: 6 Nos.
Clamping Studs of six different lengths	: 4 Nos. each
Flanged Nuts	: 6 Nos.
Extension Nuts	: 4 Nos.
Stepped Strap Clamps of three different lengths	: 2 Nos. each
Step blocks of three different sizes	: 2 pairs (4 Nos.) each

### CMM CLAMPING KIT - 62 PIECE with Aluminum / plastic clamping elements

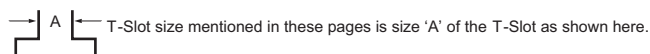


Specially designed for 3D coordinate measuring machine and other inspection and gaging applications.

Model CMMCK-62 consists of :

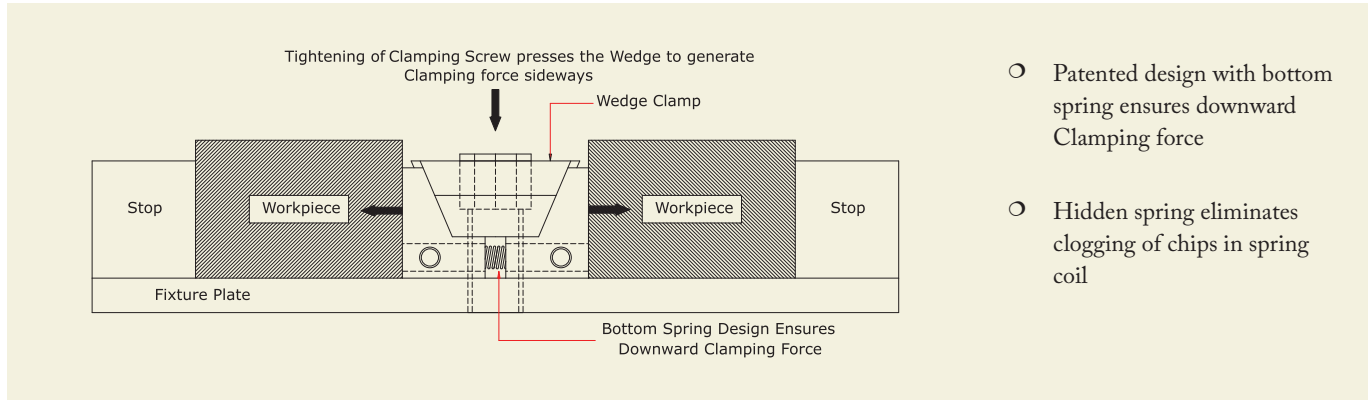
28 nos. Aluminum M-8 studs of different lengths upto 200mm long.
8 nos. M-8 Aluminum flanged nuts (Hand Tightening Type).
6 nos. Aluminum alloy strap clamps.
8 nos. Aluminum screw jacks.
4 nos. Aluminum top rest pads for screw jacks.
8 nos. Plastic bottom rest pads for screw jacks and studs.

Adapter available on request for CMM's with M-10 or M-12 threaded beds.



**WEDGE CLAMP - RIGID BODY, HARDENED TOOL STEEL, DOWNWARD FORCE**

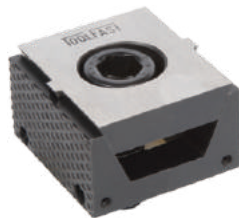
'TOOLFAST' manufactures all models of wedge clamps with new patented design now in India.



- Patented design with bottom spring ensures downward Clamping force
- Hidden spring eliminates clogging of chips in spring coil

**WEDGE CLAMP - TWC SERIES** *Serrated Hardened Jaws*

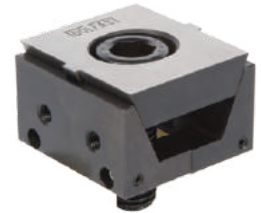
MODEL	CLAMPING SCREW
TWC-8	M8
TWC-12	M12
TWC-16	M16



**WEDGE CLAMP - TWC-P SERIES** *Plain Hardened Jaws with Tapped Holes*

These have plain hardened jaws with added two tapped holes for attaching additional jaw inserts if need be.

MODEL	CLAMPING SCREW
TWC-8 P	M8
TWC-12 P	M12
TWC-16 P	M16



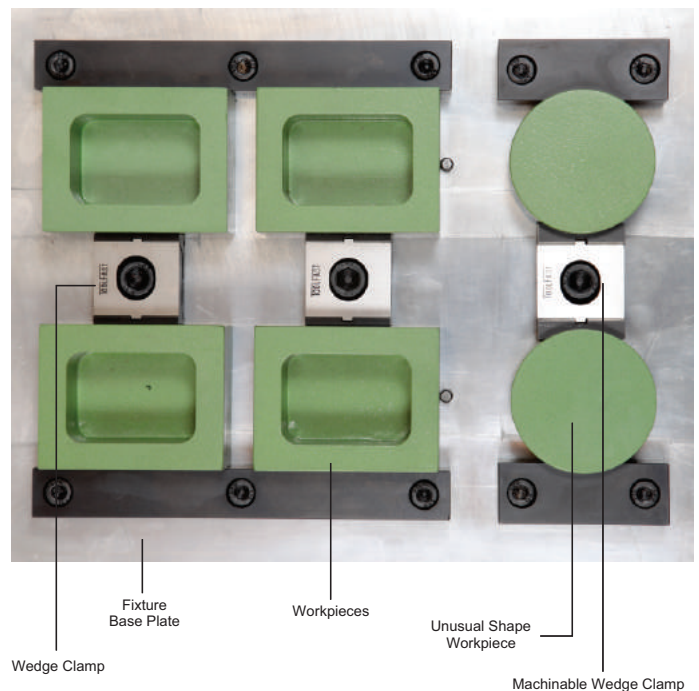
**WEDGE CLAMP - TWC-M SERIES** *Machinable Jaws*

These have extra material on jaws (soft) to machine as per the workpiece shape enabling fixturing of uneven or unusual shape work pieces.

MODEL	CLAMPING SCREW
TWC-8 M	M8
TWC-12 M	M12
TWC-16 M	M16

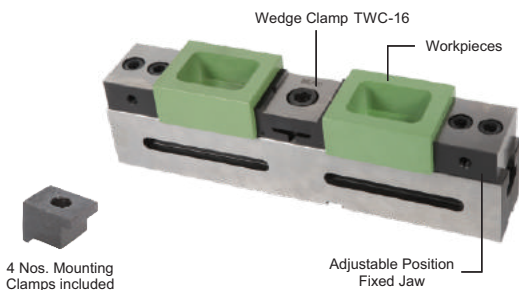


**MULTIPLE WORKPIECE CLAMPING FIXTURES WITH TWC SERIES WEDGE CLAMPS DESIGNED & MANUFACTURED BY TOOLFAST**



**MULTIPLE CLAMPING VICE WITH TWC-16 WEDGE CLAMPS**

TOOLFAST offers a 60mm jaw width vice which is capable of clamping multiple workpieces. All parts such as TWC wedge clamp, fixed jaws and the main body are modular and interchangeable.



- Model VTWC-16-60-350 available as standard having overall length 350mm capable of jaw opening 91mm in case of two workpieces.
- Above vice can be supplied in custom built lengths to suit different sizes of workpieces. Send your enquiries to us if you feel that 60mm jaw width vice can hold your workpiece. Additional fixed jaws and TWC series clamps can be included in the vice if more than two workpieces to be clamped.
- For uneven or unusual shape workpieces, TWC-M and TWC-P series wedge clamps can also be used in above vice.

If your workpiece is suitable for clamping with 'TOOLFAST' Wedge clamps, our team can design and manufacture a multiple clamping fixture for you as the one shown in the picture.

Please send in your enquiries with workpiece / machine table specifications to us if you feel that 'TOOLFAST' wedge clamps are suitable for your workpiece or simply send your workpiece/ machine details to us and let us decide it.

2D / 3D CAD files available on request

## WEDM CLAMP

Material Stainless Steel, Hardened & Ground

MODEL	OVERALL SIZE	SUITABLE FOR CLAMPING SCREW
TWEC - 1	70 X 23 X 8	M-8
TWEC - 2	70 X 23 X 12	M-8



## WEDM EXTENSIONS

Material Stainless Steel, Hardened & Ground  
Parallelism within  $\pm 0.005$  mm

MODEL	OVERALL SIZE
TWEE - 1	120 X 50 X 15
TWEE - 2	120 X 100 X 15

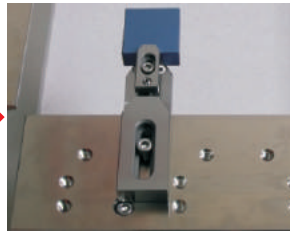


## WEDM EXTENSION WITH CLAMP

Material Stainless Steel, Hardened & Ground  
Parallelism within  $\pm 0.005$  mm



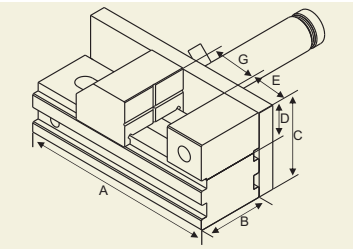
Application View



MODEL	OVERALL WIDTH	OVERALL LENGTH
TWEEC - 1	40	140

## EDM ELECTRODE HOLDER

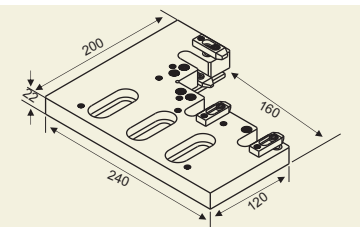
Material Stainless Steel, Hardened & Ground  
Parallelism and Squareness within  $\pm 0.005$  mm



MODEL	A	B	C	D	E	G Max.
EDV - 20	65	25	32	12	20	20
EDV - 45	100	35	35	16	25	45

## WEDM ADJUSTABLE FIXTURE Model TWEF-1

Material Stainless Steel, Hardened & Ground  
Parallelism within  $\pm 0.005$  mm



## WEDM RULER

Material Stainless Steel, Hardened & Ground  
Parallelism within  $\pm 0.005$  mm

MODEL	LENGTH	BREADTH	HEIGHT
TWER - 370	370	45	30
TWER - 450	450	60	30
TWER - 550	550	60	30
TWER - 650	650	80	36
TWER - 750	750	80	36
TWER - 950	950	80	40



## WEDM CORNER FIXTURE

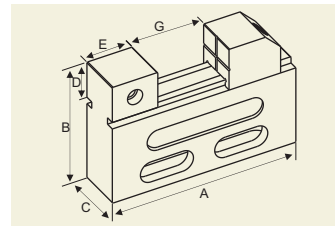
Material Stainless Steel, Hardened & Ground  
Parallelism within  $\pm 0.005$  mm

MODEL	CLAMPING RANGE dia	OVERALL SIZE
TWCF - 1	0 - 50	100 x 120
TWCF - 2	0 - 100	150 x 170



## WEDM VICE - Type A

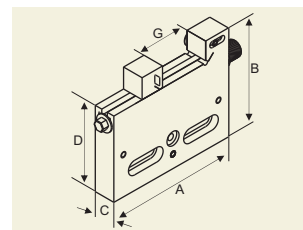
Material Stainless Steel, Hardened & Ground  
Parallelism and Squareness within  $\pm 0.005$  mm



MODEL	A	B	C	D	E	G Max.
WEVA - 50	120	85	28	25	30	50
WEVA - 150	225	100	32	35	30	150

## WEDM VICE - Type B

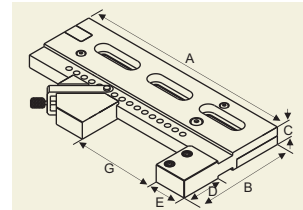
Material Stainless Steel, Hardened & Ground  
Parallelism and Squareness within  $\pm 0.005$  mm



MODEL	A	B	C	D	G Max.
WEVB - 75	127	100	21	72	75
WEVB - 100	152	100	21	72	100

## WEDM VICE - 3 Axis Level Adjustable

Material Stainless Steel, Hardened & Ground  
Parallelism and Squareness within  $\pm 0.005$  mm



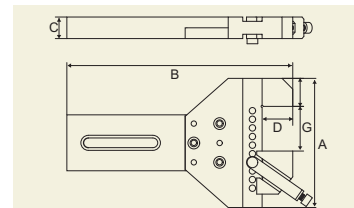
Level Adjustment Screws



MODEL	A	B	C	D	E	G Max.
WEVB - 160	300	170	24	50	60	160

## WEDM VICE WITH EXTENSION

Material Stainless Steel, Hardened & Ground  
Parallelism and Squareness within  $\pm 0.005$  mm



MODEL	A	B	C	D	G Max.
WEVE - 75	140	210	20	28	75
WEVE - 100	165	210	20	28	100

**HOLD DOWN TOGGLE CLAMP - Vertical Handle - Flanged Base**

MODEL	ARM TYPE	HEIGHT UNDER ARM	HOLDING CAPACITY
VHDT-19-U VHDT-19-BR	U-ARM BR-ARM	19	70 Kgs.
VHDT-25-U VHDT-25-BR	U-ARM BR-ARM	25	100 Kgs.
VHDT-26-U VHDT-26-BR	U-ARM BR-ARM	25	100 Kgs.
VHDT-32-U VHDT-32-BR	U-ARM BR-ARM	32	200 Kgs.
VHDT-36-U VHDT-36-BR	U-ARM BR-ARM	36	200 Kgs.
VHDT-45-U VHDT-45-BR	U-ARM BR-ARM	45	400 Kgs.
VHDT-46-U VHDT-46-BR	U-ARM BR-ARM	46	400 Kgs.
VHDT-50-U VHDT-50-BR	U-ARM BR-ARM	50	350 Kgs.
VHDT-60-U VHDT-60-BR	U-ARM BR-ARM	60	500 Kgs.
VHDT-80-U VHDT-80-BR	U-ARM BR-ARM	80	700 Kgs.
VHDT-85-U VHDT-85-BR	U-ARM BR-ARM	85	700 Kgs.



U-Arm Model



BR-Arm Model

**PULL BACK CLAMP**

MODEL	HOLDING CAPACITY
PBC - 38	400 Kgs.



**HOLD DOWN TOGGLE CLAMP - Horizontal Handle - Thumb Type**

MODEL	ARM TYPE	HEIGHT UNDER ARM	HOLDING CAPACITY
HDTC-25 HDTC-25-BR	U-ARM BR-ARM	27	150 Kgs.
HDTC-27 HDTC-27-BR	U-ARM BR-ARM	27	150 Kgs.
HDTC-35 HDTC-35-BR HDTC-35-HA (High Arm Model)	U-ARM BR-ARM U-ARM	37 54	250 Kgs. 250 Kgs.
HDTC-36 HDTC-36-BR	U-ARM BR-ARM	36	250 Kgs.



U-Arm Model



BR-Arm Model

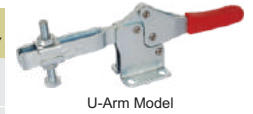
**HOLD DOWN TOGGLE CLAMP - Vertical Handle - Solid Arm**

MODEL	HEIGHT UNDER ARM	HOLDING CAPACITY
VHDT-25-ST	25	150 Kgs.
VHDT-32-ST	32	250 Kgs.
VHDT-45-ST	45	500 Kgs.
VHDT-60-ST	60	600 Kgs.
VHDT-80-ST	80	800 Kgs.

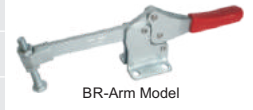


**HOLD DOWN TOGGLE CLAMP - Horizontal Handle - Long Type**

MODEL	ARM TYPE	HEIGHT UNDER ARM	HOLDING CAPACITY
HDTC-45 HDTC-45-BR	U-ARM BR-ARM	45	500 Kgs.
HDTC-46 HDTC-46-BR	U-ARM BR-ARM	46	500 Kgs.
HDTC-50 HDTC-50-BR	U-ARM BR-ARM	50	500 Kgs.
HDTC-57 HDTC-57-BR	U-ARM BR-ARM	61	500 Kgs.



U-Arm Model



BR-Arm Model

**HOLD DOWN TOGGLE CLAMP - Vertical Handle - Base Straight**

MODEL	HOLDING CAPACITY
VHDT-19-U-BS	70 Kgs.
VHDT-25-U-BS	100 Kgs.
VHDT-26-U-BS	100 Kgs.
VHDT-32-U-BS	200 Kgs.
VHDT-36-U-BS	200 Kgs.
VHDT-45-U-BS	400 Kgs.
VHDT-46-U-BS	400 Kgs.
VHDT-50-U-BS	350 Kgs.
VHDT-60-U-BS	500 Kgs.
VHDT-80-U-BS	700 Kgs.
VHDT-85-U-BS	700 Kgs.



**HOLD DOWN TOGGLE CLAMP - Drop Handle**

MODEL	HOLDING CAPACITY
DTC-70	200 Kgs.



**HOLD DOWN TOGGLE CLAMP - T Handle - Flanged Base**

MODEL	HEIGHT UNDER ARM	HOLDING CAPACITY
VHDT-25-TU	25	100 Kgs.
VHDT-32-TU	32	200 Kgs.



**HOLD DOWN TOGGLE CLAMP - Forward Handle**

MODEL	HEIGHT UNDER ARM	HOLDING CAPACITY
FHTC-13	13	50 Kgs.



**HOLD DOWN TOGGLE CLAMP - Vertical Handle - Right Angle Base**

MODEL	HOLDING CAPACITY
RATC-70	300 Kgs.



**HOLD DOWN TOGGLE CLAMP - Horizontal Handle - Base Straight**

MODEL	HOLDING CAPACITY
HDTC-45-BS	500 Kgs.
HDTC-50-BS	500 Kgs.



**HOLD DOWN TOGGLE CLAMP - Horizontal Handle - Miniature Series**

MODEL	ARM TYPE	HEIGHT UNDER ARM	HOLDING CAPACITY
HDTC-8	U-Arm	8	25 Kgs.
HDTC-15	U-Arm	15	50 Kgs.





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## PUSH / PULL ACTION TOGGLE CLAMP - Front Base - Steel Body

MODEL	PLUNGER DIA	PLUNGER TRAVEL	HOLDING CAPACITY
PATC-9-FB	9Ø	28	200 Kgs.
PATC-12-FB	12Ø	30	600 Kgs.
PATC-16-FB	16Ø	36	1000 Kgs.



## PUSH / PULL ACTION TOGGLE CLAMP - Front Base - CI Body

MODEL	PLUNGER DIA	PLUNGER TRAVEL	HOLDING CAPACITY
PATC-22-FB	22Ø	44	1500 Kgs.



## PUSH / PULL ACTION TOGGLE CLAMP - Center Base

MODEL	PLUNGER DIA	PLUNGER TRAVEL	BODY	HOLDING CAPACITY
PATC-12-CB	12Ø	30	STEEL	400 Kgs.
PATC-1238-CB	12Ø	30	STEEL	400 Kgs.
PATC-16-CB	16Ø	36	STEEL	700 Kgs.
PATC-1642-CB	16Ø	36	STEEL	700 Kgs.
PATC-22-CB	22Ø	60	C.I.	1000 Kgs.



## PUSH / PULL ACTION TOGGLE CLAMP - LONG TRAVEL

MODEL	PLUNGER DIA	HOLDING CAPACITY
PATC-12-LT	12Ø	600 Kgs.
PATC-16-LT	16Ø	800 Kgs.
PATC-20-LT	20Ø	1200 Kgs.



## PUSH / PULL ACTION TOGGLE CLAMP - Miniature Model

MODEL	PLUNGER DIA	PLUNGER TRAVEL	HOLDING CAPACITY
PATC-6	6Ø	14	50 Kgs.



## PUSH / PULL ACTION TOGGLE CLAMP - Side Handle

MODEL	PLUNGER DIA	PLUNGER TRAVEL	HOLDING CAPACITY
PATC-9-FB-SH	6Ø	14	200 Kgs.



## PUSH / PULL ACTION TOGGLE CLAMP - Heavy Duty

MODEL	PLUNGER DIA	PLUNGER TRAVEL	HOLDING CAPACITY
PATC-25	25Ø	100	2000 Kgs.



## PUSH / PULL ACTION TOGGLE CLAMP - Reverse Handle

MODEL	PLUNGER DIA	PLUNGER TRAVEL	HOLDING CAPACITY
PAR-14	14Ø	28	1200 Kgs.



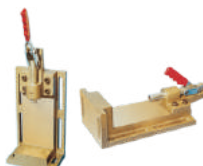
## PUSH / PULL ACTION TOGGLE CLAMP - Front Mounting Type

MODEL	PLUNGER DIA	PLUNGER TRAVEL	HOLDING CAPACITY
PAFM-9	9	25	50 Kgs.
PAFM-12	12	36	100 Kgs.
PAFM-16	16	65	350 Kgs.

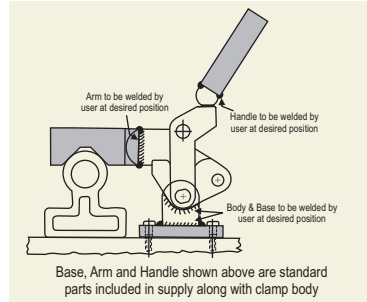


## TOGGLE VICE CUM PRESS

MODEL	CAPACITY
TVP-12	600 Kgs.
TVP-16	1000 Kgs.
TVP-22	1500 Kgs.



## HEAVY DUTY WELDABLE TOGGLE CLAMP - MODULAR DESIGN



MODEL	HOLDING CAPACITY
WTC - 200	500 Kgs.
WTC - 300	700 Kgs.
WTC - 500	1100 Kgs.

## HEAVY DUTY WELDABLE TOGGLE CLAMP - BASE STRAIGHT

MODEL	HOLDING CAPACITY
WTC - 200 BS	500 Kgs.
WTC - 300 BS	700 Kgs.
WTC - 500 BS	1100 Kgs.



Arm and Handle are included in standard supply.

## HOLD DOWN TOGGLE CLAMP - PNEUMATIC OPERATION

MODEL	ARM TYPE	HOLDING CAPACITY
POHD-35-U	U-ARM	200 Kgs.
POHD-35-ST	ST-ARM	
POHD-50-U	U-ARM	400 Kgs.
POHD-50-ST	ST-ARM	
POHD-85-U	U-ARM	700 Kgs.
POHD-85-ST	ST-ARM	



## PUSH ACTION TOGGLE CLAMP - PNEUMATIC OPERATION

MODEL	PLUNGER DIA	PLUNGER TRAVEL	HOLDING CAPACITY
POPA-12	12	20	600 Kgs.
POPA-16	16	25	1000 Kgs.
POPA-22	22	30	1500 Kgs.



## SQUEEZE ACTION TOGGLE CLAMP

MODEL	dØ CLAMPING SPINDLE
SA-1045	M10 (1 No.)
SA-1045-2	M10 (2 Nos.)



## STANDARD ACCESSORIES

Suitable sizes of hex head spindle assembly is provided as standard accessory with all toggle clamps. Set of U-flanged washers is provided with all U-Arm models.



## OPTIONAL SPINDLE ASSEMBLIES

User can select an optional spindle assembly from following types and if required can order these separately.

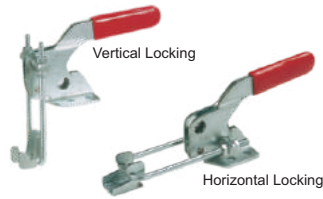


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**PULL ACTION CLAMP - LATCH TYPE - HORIZONTAL CUM VERTICAL**

Same Clamp can be used for horizontal as well as vertical locking.

MODEL	U-BOLT DIA	HOLDING CAPACITY
PAC-4-HV	4Ø	150 Kgs.
PAC-4-HV S.S. (Stainless Steel)	4Ø	150 Kgs.
PAC-6-HV	6Ø	400 Kgs.
PAC-6-HV S.S. (Stainless Steel)	6Ø	400 Kgs.
PAC-8-HV	8Ø	900 Kgs.



**HORIZONTAL LATCH CLAMP - LIGHT DUTY**

MODEL	HOOK DIA	HOLDING CAPACITY
LC-50	4.4	70 Kgs.
LC-50 S.S. (Stainless Steel)	4.4	70 Kgs.
LC-80	5.3	80 Kgs.
LC-80 S.S. (Stainless Steel)	5.3	80 Kgs.
LC-100	7.0	100 Kgs.
LC-100 S.S. (Stainless Steel)	7.0	100 Kgs.



**PULL ACTION CLAMP - LATCH TYPE - HORIZONTAL**

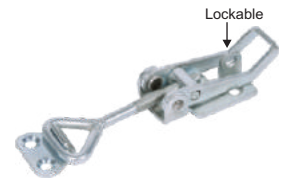
These are newly introduced models having same dimensions as above PAC-HV series but with a modified low height handle suitable for only horizontal locking.

MODEL	U-BOLT DIA	HOLDING CAPACITY
PAC-4-H	4Ø	150 Kgs.
PAC-4-H S.S. (Stainless Steel)	4Ø	150 Kgs.
PAC-6-H	6Ø	400 Kgs.
PAC-6-H S.S. (Stainless Steel)	6Ø	400 Kgs.
PAC-8-H	8Ø	900 Kgs.



**HORIZONTAL LATCH CLAMP - LIGHT DUTY - Lockable Type**

MODEL	HOOK DIA	HOLDING CAPACITY
LC-50-L	4.4	50 Kgs.
LC-50-L S.S. (Stainless Steel)	4.4	50 Kgs.
LC-80-L	5.3	80 Kgs.
LC-80-L S.S. (Stainless Steel)	5.3	80 Kgs.



**HORIZONTAL LATCH CLAMP - MEDIUM DUTY**

MODEL	U-BOLT DIA.	HOLDING CAPACITY
PAC-5-H	5	250 Kgs.
PAC-5-H S.S. (Stainless Steel)	5	250 Kgs.
PAC-520-H	5	250 Kgs.
PAC-520-H S.S. (Stainless Steel)	5	250 Kgs.



**HORIZONTAL LATCH CLAMP - HEAVY DUTY**

MODEL	U-BOLT DIA.	HOLDING CAPACITY	TRIGGER LOCK
PAC-10-H	10	2000 Kgs.	Not Included
PAC-10-H-TR	10	2000 Kgs.	Included
PAC-11-H	11	3000 Kgs.	Not Included
PAC-11-H-TR	11	3000 Kgs.	Included
PAC-12-H	12	3500 Kgs.	Not Included
PAC-12-H-TR	12	3500 Kgs.	Included



**PULL ACTION CLAMP LATCH TYPE - HORIZONTAL**

MODEL	DIA	HOLDING CAPACITY
PAC-416-H	4Ø	100 Kgs.
PAC-625-H	6Ø	400 Kgs.
PAC-840-H	8Ø	900 Kgs.



**PULL ACTION CLAMP LATCH TYPE - HORIZONTAL WITH TRIGGER LOCK**

MODEL	U-BOLT DIA	HOLDING CAPACITY
PAC-625-H-TR	6Ø	400 Kgs.
PAC-840-H-TR	8Ø	900 Kgs.



**PULL ACTION CLAMP - HOOK TYPE**

MODEL	HOOK DIA	HOLDING CAPACITY
HPA - 8	8	200 Kgs.



2D / 3D CAD files available on request

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## PSF SERIES : PNEUMATIC LOWER FLANGE VERSION SWING CLAMP - DOUBLE ACTING, 4-7 Kg/cm<sup>2</sup> INLET AIR PRESSURE

MODEL	PISTON DIA	STROKE DURING SWING	STRAIGHT CLAMPING STROKE	TOTAL STROKE	CLAMPING FORCE AT 5Kg/cm <sup>2</sup>
PSF 25 R/L	25	12	14	26	16 kg
PSF 32 R/L	32	12	14	26	30 kg
PSF 40 R/L	40	12	15	27	50 kg
PSF 50 R/L	50	14	15	29	85 kg
PSF 63 R/L	63	14	15	29	140 kg



## HSF SERIES : LOW OIL PRESSURE, HYDRAULIC, FLANGE VERSION SWING CLAMP

DOUBLE ACTING, 20-70 Kg/cm<sup>2</sup> INLET OIL PRESSURE



MODEL	PISTON DIA	STROKE DURING SWING	STRAIGHT CLAMPING STROKE	TOTAL STROKE	CLAMPING FORCE AT 25Kg/cm <sup>2</sup>
HSF 25 R/L	25	12	14	26	59 kg
HSF 32 R/L	32	14	15	29	125 kg
HSF 40 R/L	40	14	15	29	200 kg
HSF 50 R/L	50	14	15	29	400 kg
HSF 63 R/L	63	14	15	29	600 kg

Also available in manifold mounting type.

## NPSU SERIES : PNEUMATIC UPPER FLANGE VERSION SWING CLAMP - DOUBLE ACTING, 4-7 Kg/cm<sup>2</sup> INLET AIR PRESSURE

MODEL	PISTON DIA	STROKE DURING SWING	STRAIGHT CLAMPING STROKE	TOTAL STROKE	CLAMPING FORCE AT 5Kg/cm <sup>2</sup>
NPSU 25 R/L	25	13	14	27	16 kg
NPSU 32 R/L	32	16	14	30	30 kg
NPSU 40 R/L	40	15	15	30	50 kg
NPSU 50 R/L	50	17	15	32	85 kg
NPSU 63 R/L	63	15	15	30	140 kg



## HST SERIES : LOW OIL PRESSURE, HYDRAULIC, THREADED VERSION SWING CLAMP

DOUBLE ACTING, 20-70 Kg/cm<sup>2</sup> INLET OIL PRESSURE



MODEL	PISTON DIA	STROKE DURING SWING	STRAIGHT CLAMPING STROKE	TOTAL STROKE	CLAMPING FORCE AT 25Kg/cm <sup>2</sup>
HST 25 R/L	25	12	14	26	59 kg
HST 32 R/L	32	14	15	29	125 kg
HST 40 R/L	40	14	15	29	200 kg
HST 50 R/L	50	14	15	29	400 kg

## PSB SERIES : PNEUMATIC SWING CLAMP, BLOCK VERSION - DOUBLE ACTING, 4-7 Kg/cm<sup>2</sup> INLET AIR PRESSURE

MODEL	PISTON DIA	STROKE DURING SWING	STRAIGHT CLAMPING STROKE	TOTAL STROKE	CLAMPING FORCE AT 5Kg/cm <sup>2</sup>
PSB 25 R/L	25	13	14	27	16 kg
PSB 32 R/L	32	16	14	30	30 kg
PSB 40 R/L	40	15	15	30	50 kg
PSB 50 R/L	50	17	15	32	85 kg
PSB 63 R/L	63	15	15	30	140 kg



## NHU SERIES : LOW OIL PRESSURE, HYDRAULIC, UPPER FLANGE PIPE MOUNTING / MANIFOLD MOUNTING SWING CLAMP

DOUBLE ACTING, 20-70 Kg/cm<sup>2</sup> INLET OIL PRESSURE



MODEL	PISTON DIA	STROKE DURING SWING	STRAIGHT CLAMPING STROKE	TOTAL STROKE	CLAMPING FORCE AT 25Kg/cm <sup>2</sup>
NHU 32 R/L	32	14	15	29	125 kg
NHU 40 R/L	40	14	15	29	200 kg
NHU 50 R/L	50	14	15	29	400 kg
NHU 63 R/L	63	14	15	29	600 kg

## PST SERIES : PNEUMATIC, THREADED VERSION, SWING CLAMP, DOUBLE ACTING, 4-7 Kg/cm<sup>2</sup> INLET AIR PRESSURE

MODEL	PISTON DIA	STROKE SWING	CLAMPING STROKE	TOTAL STROKE	CLAMPING FORCE AT 5Kg/cm <sup>2</sup>
PST 25 R/L	25	14	14	28	16 kg
PST 32 R/L	32	16	14	30	30 kg
PST 40 R/L	40	15	14	29	50 kg
PST 50 R/L	50	14	14	28	85 kg
PST 63 R/L	63	15	15	30	140 kg



## PLCU SERIES : PNEUMATIC, UPPER FLANGED VERSION, THREADED BODY LEVER CLAMP - DOUBLE ACTING, 4-10 Kg/cm<sup>2</sup> INLET AIR PRESSURE

MODEL	PISTON DIA	TOTAL STROKE	CLAMPING FORCE AT 7Kg/cm <sup>2</sup>
PLCU 25	25	22	34 kg
PLCU 32	32	28	56 kg
PLCU 40	40	30	88 kg
PLCU 50	50	30	137 kg
PLCU 63	63	30	218 kg



## NFS, NFT, SERIES : HIGH OIL PRESSURE, HYDRAULIC SWING CLAMPS, INLET OIL PRESSURE 50-350Kg/cm<sup>2</sup>

NFS Series : Flange type  
NFT Series : Threaded Version

PISTON DIA	CLAMPING FORCE
25	500 kg
32	900 kg
40	1600 kg



NFS Series

NFT Series

R/L Signifies right hand swing/Left hand swing. Standard swing angle is 90°. Other swing angles are also available on request.

2D / 3D CAD files available on request

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## 030 SERIES: HIGH OIL PRESSURE HYDRAULIC - BOTTOM FLANGE VERSION SWING CLAMP - INLET OIL PRESSURE 35-350 kg/cm<sup>2</sup>

MODEL	CLAMPING FORCE at 210 kg/cm <sup>2</sup>
030- 92-R/L	550 kg
030-202-R/L	1100 kg
030-352-R/L	2100 kg



## TC SERIES : THREADED BODY CYLINDER, HYDRAULIC, SINGLE ACTING, SPRING RETURN 20 - 350 Kg/cm<sup>2</sup> INLET OIL PRESSURE

MODEL	PISTON DIA	STROKE	FORCE AT 200Kg/cm <sup>2</sup>
TC 12 A/B	12	10	200 kg
TC 16 A/B	16	12	400 kg
TC 20 A/B	20	15	620 kg
TC 25 A/B	25	16	980 kg



SERIES A  
SOLID PLUNGER



SERIES B  
TAPPED PLUNGER

## 050 SERIES: HIGH OIL PRESSURE HYDRAULIC - UPPER FLANGE VERSION SWING CLAMP - INLET OIL PRESSURE 35-350 kg/cm<sup>2</sup>

MODEL	CLAMPING FORCE at 210 kg/cm <sup>2</sup>
050- 92-R/L	550 kg
050-202-R/L	1100 kg
050-352-R/L	2100 kg



## SP SERIES : HYDRAULIC WORK SUPPORT - HIGH OIL PRESSURE

Hydraulic work support is a hydraulic version of a mechanical screw jack used as a work support element for positively supporting the workpiece to avoid deformation and minimize distortion and vibration of work piece due to cutting and clamping forces.

MODEL	SP-16A / SP-16B
Normal Operating Pressure	100-350 kg/cm <sup>2</sup>
Cylinder Operation	Single Acting
Piston Diameter (mm)	16
Stroke (mm)	8
Theoretical Force at 200 Kg/cm <sup>2</sup>	210 kg



SP-16A  
Spring Advance



SP-16B  
Hydraulic Advance

## HYDRAULIC LEVER CLAMP- LOW OIL PRESSURE DOUBLE ACTING - 5-50 Kg/cm<sup>2</sup> INLET OIL PRESSURE

MODEL	PISTON DIA	TOTAL STROKE	CLAMPING FORCE at 210 kg/cm <sup>2</sup>
HLC - 25	25	25	123 kg
HLC - 32	32	25	200 kg
HLC - 40	40	30	315 kg
HLC - 50	50	35	490 kg



Available in block mounting as well as manifold mounting models.

## LHC01D SERIES: HYDRAULIC - UPPER FLANGE VERSION THREADED BODY DOUBLE ACTING LEVER CLAMP - 20-70 kg/cm<sup>2</sup> INLET OIL PRESSURE

MODEL	PISTON DIA	TOTAL STROKE	CLAMPING FORCE AT 25Kg/cm <sup>2</sup>
LHC01D - 25	25	25	123 Kgs.
LHC01D - 32	32	28	200 Kgs.
LHC01D - 40	40	30	315 Kgs.
LHC01D - 50	50	30	490 kgs.
LHC01D - 63	63	30	780 Kgs.



## WS-BL Series : HYDRAULIC WORK SUPPORT - LOW OIL WORKING PRESSURE - 25-70 Kg/cm<sup>2</sup>

Smaller three sizes are manifold mounting type and larger sizes are piping type upper flange mounting.



Manifold Type

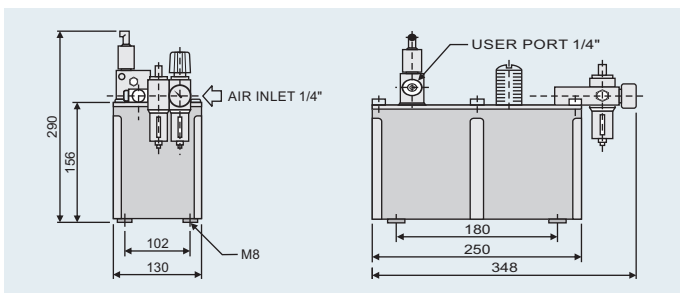


Upper Flange Type

MODEL	STROKE	SUPPORTING FORCE AT 70 KG/CM <sup>2</sup>	MOUNTING TYPE
WS-T30 BL	8	300 Kg	Manifold
WS-T36 BL	8	400 Kg	Manifold
WS-U40 BL	8	550 Kg	Upper Flange
WS-U48 BL	10	720 Kg	Upper Flange
WS-U55 BL	12	1100 Kg	Upper Flange

## HYDROPNEUMATIC POWER UNIT

Gerardi hydropneumatic power unit for hydraulic clamping devices and its bi-products is designed to meet all needs regarding the powering of hydraulic cylinders where low flow rates and high pressures are required. It is driven by air at its inlet to produce hydraulic pressure at its outlet. The special design shape of the power unit is such that a high performance system can be implemented taking up very little space. Thanks to the special design principles, the pump section adopted allows the hydropneumatic power unit to be installed in very hostile environments, such as the work area of machine tools, etc. The unique modular hydraulic flow control system allows controlling up to 6 separate users from just one power unit.



### Art. 393 - Power unit

The pump in its basic version is supplied complete with teflon tank, fill plug, silencer, quick acting air connector fitting and hydraulic control box. Also very suitable for operating swing Clamps (Single acting).

### SPECIFICATION

MAX. PERMISSIBLE INLET AIR PRESSURE:	7 bar
RECOMMENDED INLET AIR PRESSURE:	5,5 bar
OIL DELIVERIES: 1.2-1.4-2.2-2.7-4.3	Liters/min
MAX. OIL OUTLET PRESSURE AT 5 BAR AIR INLET PRESSURE:	400 bar
MAX. NO. OF USERS RECOMMENDED:	6

Outlet pressure can be regulated and set to desired pressure.

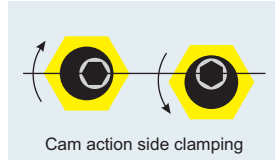
**FIXTURE CLAMPS - ECCENTRIC TYPE**

The Cam Action Fixture Clamp is made up of two simple components : a hardened steel socket cap screw with an offset head and a hexagonal washer. This clamp is used for low profile side clamping.

- Low profile makes computer programming easier.
- Cam action provides fast, strong clamping.
- Small size allows more parts per load.
- Simple design keeps cost low.



Available in screw sizes M- 4 to M-16



Cam action side clamping

**KNIFE EDGE CLAMPS**

Knife Edge Clamps can be used instead of the above Fixture clamps for clamping rough cut stock, castings and any material that requires a hardened clamping element.

Available in M-10, M-12 and M-16 screw sizes.

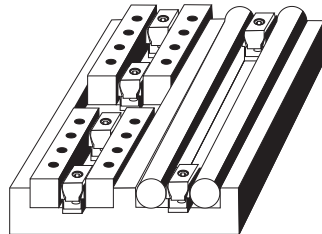


**UNIFORCE CLAMPS - WEDGE TYPE**

The compact, economical Uniforce Clamp enables you to fixture more parts on the machine table. The specially designed steel wedge spreads the clamping force uniformly on both sides of the channel Jaw. Ideal for clamping flat or round work pieces in multiple set ups.



Available in clamping screw sizes M-2 to M-16.



**ID XPANSION CLAMP**

The ID Xpansion™ clamp is the ideal way to hold parts on an inside diameter for multiple machining on a vertical machining center or a horizontal machining center. These machinable clamps are produced in 8 sizes and can hold internal diameters from 8mm to over 75mm. The clamps use a heat treated tapered screw for expansion.

The larger diameter of the clamp is held to a close tolerance for precision locating in a machined pocket on work cubes and fixture plates.

The customer machines the soft steel clamp to match the bore of the part ensuring proper fit. Often times the clamps can be remachined for different size jobs.



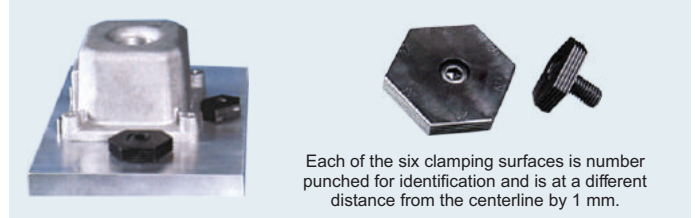
Clamping by ID Expansion Clamp on a multiple clamping fixture

Available in different sizes to hold internal diameters from 8 mm to 103 mm.

**SERIES-9 CLAMPS**

This adjustable low profile, cam action clamp provides clamping of different size work pieces merely by rotating the clamp to one of its other edges. The clamps are 10mm high and use M12 cam screw. Each of the six clamping surfaces is a different distance from the centerline by 1 mm. Therefore, one Series-9 Clamp can hold parts that vary up to 9.4mm simply by rotating the clamp to a different clamping surface.

- Serrated edges.
- Heat treated and plated.



Each of the six clamping surfaces is number punched for identification and is at a different distance from the centerline by 1 mm.

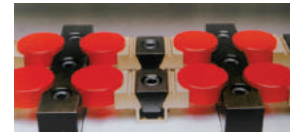
**MACHINABLE FIXTURE CLAMPS**

Also available 'Machinable Fixture Clamps' where the clamping portion has to be machined by the user as per the profile of the work piece to hold round or unusual shape parts.



**MACHINABLE UNIFORCE CLAMPS**

Also available 'Machinable Uniforce Clamps' with extra material on the clamping jaws so it can be machined by the user as per the profile of the work piece enabling to fixture unusual applications easily.

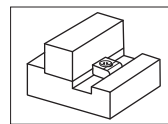


**PITBULL CLAMPS**

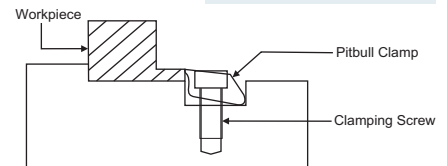
The Pitbull Clamp is a revolutionary new fixture clamp with positive down force and a low gripping profile. High vertical and horizontal clamping forces are generated, considering the size of the Pitbull Clamps. It uses a standard cap screw and an oil resistant O-ring. The Pitbull Clamp is available in 5 sizes and several styles, a tool steel knife edge for aggressive stock removal, a tool steel blunt edge for general purpose and a brass version to help prevent marring the workpiece.



Available in different models having clamping screw sizes from M-4 to M-12.

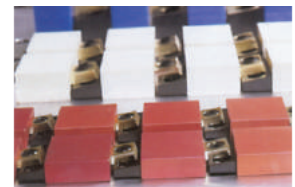
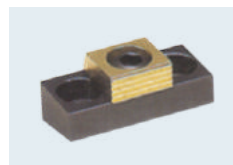


Fixture example of clamping by Pitbull Clamp



**COMPACT TOE CLAMPS**

This cam action clamp provides positive down force while using very little space on a fixture. Workpieces can be clamped in series by using the back surface of a clamp to locate the next workpiece. The hardened steel clamping element has both a smooth surface for machined workpieces and a serrated clamping surface for rougher work. The height of the clamp can be adjusted by milling the slot deeper in the fixture plate.



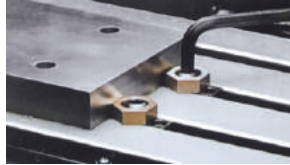
**T-SLOT CLAMP KITS (SIDE CLAMPING)**

The original MITEE-BITE T-Slot Clamp combines the unique cam action brass clamping element with a T-nut.

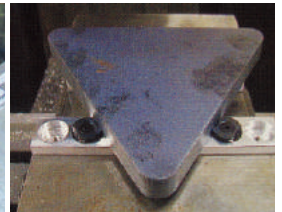
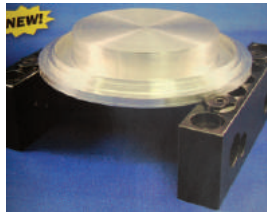
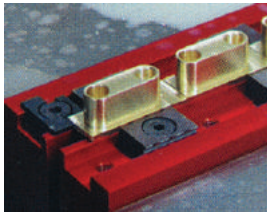
- Locks in machine T-slot for low profile clamping
- Makes fast set-ups possible right on the machine table
- Brass hex follows contour of unusual shaped parts
- Packed in complete kits

PART NO.	T-SLOT SIZE	CAM SCREW
50644	10mm	M6
50646	12mm	M8
50648	14mm	M10
50650	16mm	M12
50652	18mm	M12

The Mitee-Bite Kit Contains: 4 Mitee-Bite T-Nuts  
6 Mitee-Bite Fixture Clamps  
2 Hex Keys



**TALONGRIP™ AND VERSAGRIP™ VISE JAWS**



**TALONGRIP VISE JAWS**

MITEE-BITE Products introduces a new and innovative product that will increase the functionality of your standard 4 and 6 inch (100mm and 150mm) vises. **TalonGrip™** is a simple bolt on system that will allow you to perform aggressive machining operations while clamping on as little as 1.5mm. Ideal for small lot sizes, difficult applications or proto-type work when building a fixture would not be beneficial.

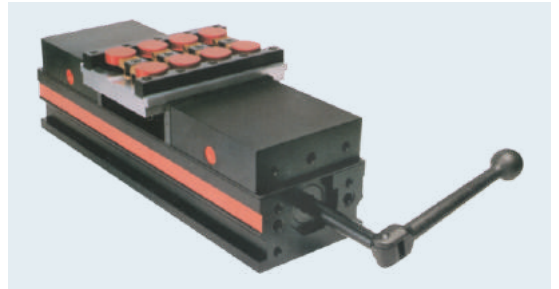
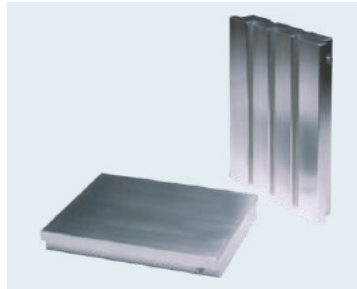
**VERSAGRIP VISE JAWS**

VersaGrip™, as the name implies, offers the versatility of clamping standard vise work as well as providing a solution for difficult applications that would normally require fixturing or machining soft-jaws. By simply replacing your current jaws with the VersaGrip™ system you can securely hold odd shaped parts while machining at speeds and feeds you never thought possible.

**WISE PALLETS**

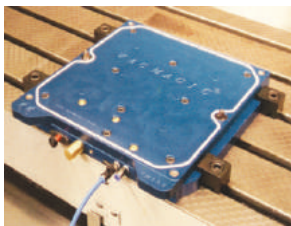
Reduce set up times and increase efficiency on small production jobs. The pallets can be reused for repeat jobs.

- Now you can run fixture jobs without removing your vises.
- These Vise Pallets are designed to fit in all 150mm vises and measure approximately 152 x 203mm and 152 x 254mm. They are available blank and with 10mm T-slots.
- The Blank Pallets are ideal for multiple small parts using one of several MITEE-BITE low profile edge clamps.
- The T-Slot Pallets can be used with our T-Slot Clamps or the versatile 10mm Riser Kit (#51088) for non-dedicated applications.
- The Vise Pallets are qualified in 2 places so they can rest on parallels or on the top of the jaws.

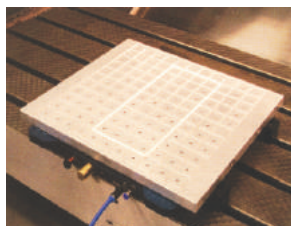


**VACMAGIC - PALLET CHANGER & VACUUM CHUCK**

**USES STANDARD SHOP AIR, NO VACUUM PUMP REQUIRED**



Vacuum pallet with rubber cord positioned on base unit for thin workpiece ready to be used as a vacuum chuck.



**VACUUM CHUCK APPLICATION**



Example of standard pallet machined into a fixture plate positioned on base unit for increased production.

**PALLET CHANGER APPLICATION**

Vise mounted on standard pallet positioned on base unit for quick change from production to prototype.



## PRECISION STEEL PARALLELS

'TOOLFAST' Steel Parallels are used as precision packing supports under jobs or fixtures. Made from tool steel, hardened, tempered & precision ground in matched pairs. Matched pairs are marked with identical serial numbers. All sides are chamfered. Overall sizes are nominal.

- Hardened & Tempered 52 - 56 HRC.
- Parallelism within 0.005mm upto 200mm length.
- Inspection certificate is furnished.

MODEL	SIZE
TSP-20	10 x 20 x 150
TSP-35	15 x 35 x 150
TSP-45	20 x 45 x 200
TSP-55	25 x 55 x 250
TSP-60	30 x 60 x 300
TSP-75	45 x 75 x 300
TSP-75-450	45 x 75 x 450



## EDGE FINDER

TOOLFAST' Edge Finder is used for fast and accurate location of starting point of work pieces with respect to the machine spindle on milling or jig boring machine tables.

**Application:** Edge finder is used for location of edges, shoulders, grooves etc. of work pieces kept on machine table with respect to the machine spindle. Shank of the Edge Finder is held in the collet or chuck and work table is traversed to cause the rotating tip of the edge finder make contact with the edge of the work piece to be located. Once the rotating tip comes in contact with the work piece, work table is further traversed so that the rotating tip shifts to a concentric position with respect to the shank. Now any movement to "off centre" will cause a distinct 'wobble'. At this point, the distance from the work edge to the centre of machine spindle is equal to half the diameter of the tip of the edge finder. Available in single & double ended tip. In double ended tip, Edge Finder can be held from both ends and both the tips of two different sizes can be used for edge finding.

Shank and tip of the edge finder are coupled together with the help of an internal spring for independent rotation of both. It is hardened and accurately ground all over to ensure repeatability of work location within 0.01 mm.

MODEL	SHANK DIA	TIP DIA	TYPE
EF-S1	10	10	Edge Finder-single end
EF-D1	10	5 & 10	Edge Finder-double end
EFR-10	10	10	Edge Finder-disc type
EFR-104	10	4 & 10	Disc Type - double end

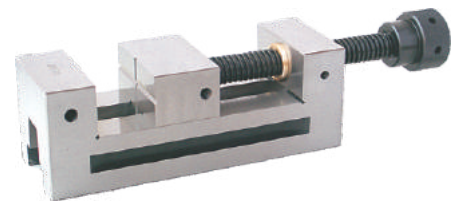


EF-S1 EF-D1 EFR-10 EFR-104

## GRINDING VICE - SCREW TYPE

'TOOLFAST' Grinding Vice - screw type is a precision machine vice. Body & jaw made of tool steel, hardened, tempered & precision ground.

- Hardened & Tempered to 52 - 56 HRC.
- All sides Parallelism & Squareness within  $\pm 0.005$ mm.
- Inspection certificate is furnished.



MODEL	JAW WIDTH	JAW DEPTH	MAX. JAW OPENING	OVERALL LENGTH	OVERALL HEIGHT
GV-65	63	32	85	190	65
GV-75	73	35	100	210	74
GV-90	88	40	125	250	88
GV-100	100	45	125	260	95
GV-125	125	50	158	300	110
GV-150	150	50	175	315	110

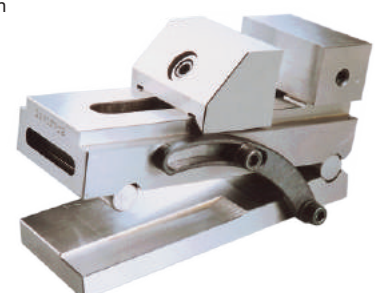
## PRECISION SINE VICE

'TOOLFAST' Precision Sine Vice is used to obtain precise angles by means of gauge blocks. Apart from its use on milling and grinding machine, this Sine Vice can also be used as a reference for inspection.

- All Hardened & Tempered to 52 - 56 HRC.
- All side Parallelism & Squareness within  $\pm 0.005$ mm.
- Centre distance of rollers within  $\pm 0.005$ mm.
- Inspection certificate is furnished.

Chart for setting sine angles with the help of gauge blocks is provided.

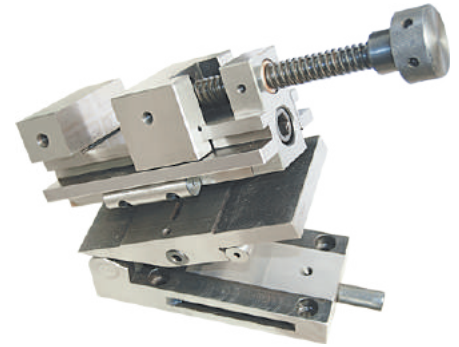
MODEL	JAW WIDTH	JAW DEPTH	MAX. JAW OPENING	OVERALL LENGTH	OVERALL HEIGHT
PSV-2	50	25	65	140	80
PSV-3	73	35	100	190	104
PSV-4	100	45	125	245	134



## PRECISION COMPOUND SINE VICE - SCREW TYPE

'TOOLFAST' Precision compound Sine Vice has compound sine angle setting on two sine plates. Both the tiltings are controlled by fine screws.

- All Hardened & Tempered to 52 - 56 HRC.
- All side Parallelism & Squareness within  $\pm 0.005\text{mm}$ .
- Centre distance of rollers within  $\pm 0.005\text{mm}$ .
- Inspection certificate is furnished.



Charts for setting both sine angles with the help of gauge blocks is provided.

MODEL	JAW WIDTH	JAW DEPTH	MAX. JAW OPENING	OVERALL LENGTH	OVERALL HEIGHT
CSGV-3	75	30	76	160	124

## STEEL V-BLOCK

'TOOLFAST' Steel V-Blocks are made of tool steel, hardened, tempered & precision ground on all sides. These are supplied in matched pairs having both sides 'V' with one clamp.

- Unbreakable Steel Clamp.
- All Hardened & Tempered 52 - 56 HRC.
- Parallelism & Squareness of all faces & 'V' within  $\pm 0.005\text{mm}$ .
- Inspection certificate is furnished.

MODEL	LENGTH	HEIGHT	WIDTH	HOLDING CAPACITY Ø MAX
SVB-50	50	37	37	35
SVB-80	80	60	60	60
SVB-100	100	75	75	75
SVB-125	125	95	95	90
SVB-150	150	98	98	95



## MAGNETIC V-BLOCK

'TOOLFAST' Magnetic V-Blocks are precision ground V-Blocks with high power magnets. Accurately fitted magnet ensures easy movement of knob. Available in single as well as matched pairs. These V-blocks have main holding 'V' and bottom face fitted with hardened steel plates having hardness 52-56 HRC.

- Parallelism & Squareness of all faces & 'V' within  $\pm 0.005\text{mm}$ .
- Most suitable for inspection and tool room applications.
- Inspection certificate is furnished.

MODEL	LENGTH	HEIGHT	WIDTH
MVB-4-H	100	95	75
MVB-6-H	150	95	75



## C. I. ANGLE PLATE - SLOTTED

'TOOLFAST' C. I. Angle Plate-Slotted is made out of high quality seasoned casting having precision ground outside faces & ends. Machined slots for clamping on both faces.

- Accuracy in parallelism & squareness within  $\pm 0.01\text{mm}$  per 200 mm length.
- Inspection certificate is furnished.

MODEL	SIZE
APS-110	110 x 85 x 75
APS-150	150 x 125 x 110
APS-175	175 x 135 x 110
APS-200	200 x 150 x 125
APS-225	225 x 175 x 150
APS-250	250 x 200 x 150
APS-300	300 x 225 x 200

Sizes APS-110 to APS-200 are in open ends type as shown in picture.  
 Sizes APS-225 to APS-300 are in webbed ends type .

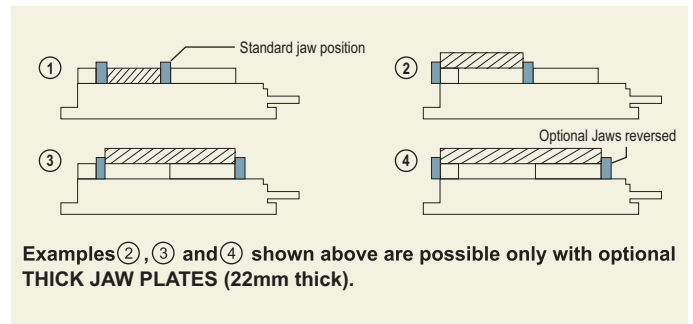
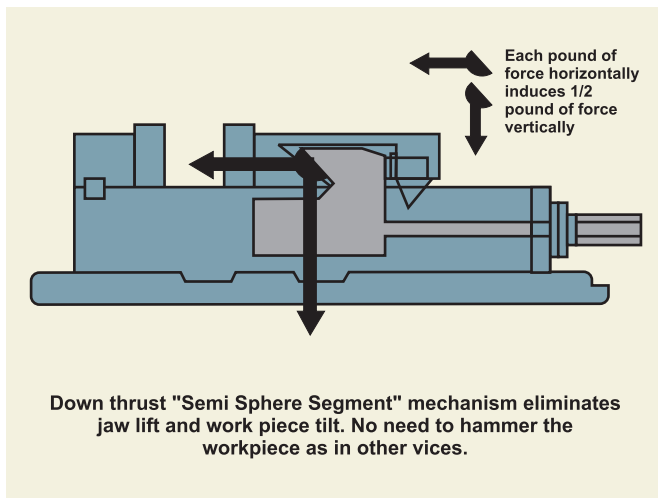




**LOCK DOWN JAW MACHINE VICE**

**FOR MACHINING CENTRE AND MILLING MACHINE**

- Flame hardened bed
- Accuracy in Parallelism & Squareness within 0.02 mm
- No work piece tilt after clamping
- All parts interchangeable and available as spares
- Tenons and tenon slots provided for effortless truing of vice on machine table



MODEL	JAW WIDTH	MAX. JAW OPENING WITH STANDARD JAW POSITION	MAX. JAW OPENING WITH JAWS REVERSED	JAW DEPTH	OVERALL LENGTH	OVERALL HEIGHT WITH SWIVAL BASE	OVERALL HEIGHT WITHOUT SWIVAL BASE	TIGHTENING TORQUE Nm Max.*	CLAMPING FORCE Max.	N.W. WITH SWIVAL BASE Kgs.	N.W. WITHOUT SWIVAL BASE Kgs.
MMV-6-HXL	160	190	395	48	430	160	115	580	3500 Kgs.	49	38
MMV-8-H	210	210	480	60	550	190	145	650	4000 Kgs.	80	62

\* Required torque can be achieved by tightening handle included with vice. Applying extra torque by using extension pipe or by hammering damages the vice parts and warranty expires.

**OPTIONAL ACCESSORIES**

**SWIVAL BASE:**  
Available separately for above vices.



**OPTIONAL JAWS FOR MMV-6HXL**

**SERRATED JAW PLATE**

Dimensions same as standard plain Jaw but having serrations for extra grip.



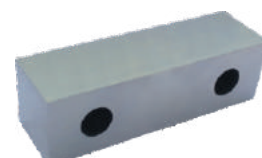
**V-JAW PLATE**

Total thickness = 40mm

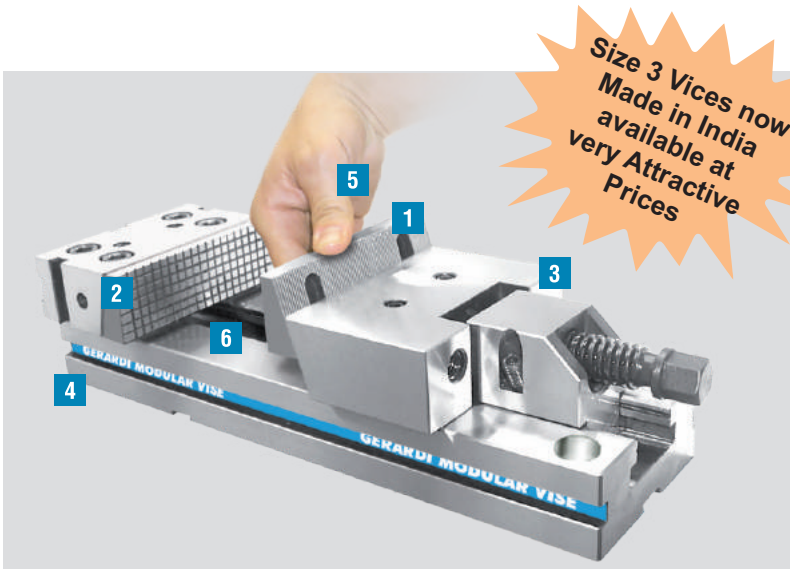


**MACHINABLE JAW PLATE**

- Extra thick (48mm) for carving part shapes into jaw plate.
- Reversible top to bottom and front to back, (counter bore both sides) for customizing of four different applications.
- Available in **Aluminium** or **Steel**



## STANDARD FLEX VISES - ART. 1AZ



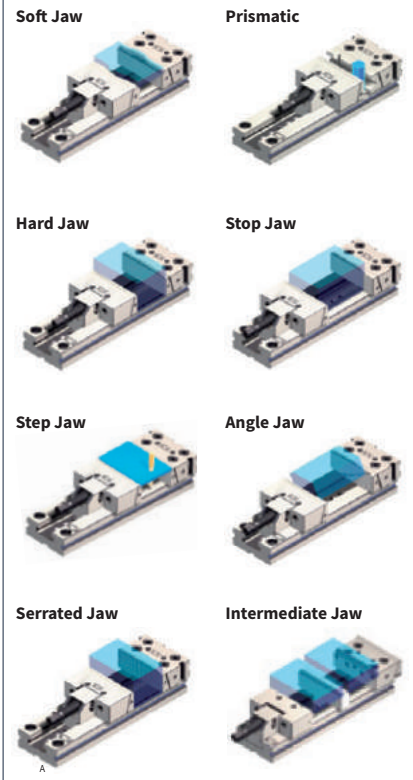
**Size 3 Vices now  
Made in India  
available at  
very Attractive  
Prices**

### Supplied with Gerardi StandardFLEX Machine Vise:

- 1x workstop ART.370
- 1x pair of positioning keys (16mm)
- 1x box wrench ART.375
- 1x T wrench ART.376
- 4x table clamps (6 with XL vise)

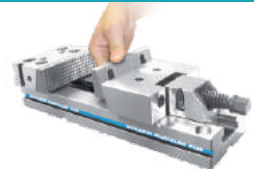
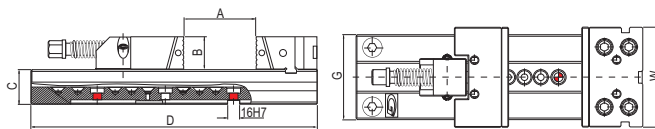
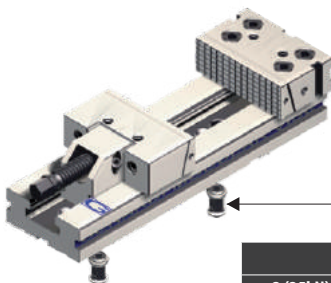


### Endless Clamping Possibilities!



1	<b>MODULAR</b>	The world's largest range of modular accessories means clamping almost ANYTHING is possible with Gerardi's standard jaws.
2	<b>NO WEAR</b>	Made 100% from high quality, case hardened alloyed resistance steel in order to give maximum rigidity, high performance and no wear.
3	<b>QUICK CLAMPING</b>	Sliding movable jaw is pushed close to the work piece then fully tightened with 1/4 turn of the wrench. Also available with Hydraulic, Pneumatic, Manual hydraulic & Electrical hydraulic clamping.
4	<b>HIGHEST ACCURACY +/-0.02mm</b>	Every sliding and working surface is ground. Centesimal tolerances are guaranteed by checking cycles with CNC measuring machine. The perfect alignment with the machine axis is given by longitudinal and cross keyways (16H7)
5	<b>QUICK HAND CHANGE JAWS</b>	ONLY with Gerardi Standard Flex vises is it possible to change the vise jaw plates in under 5 seconds. The special comb design ensures jaw plates slide into place. All working surfaces are ground and hardened as standard on jaw plates.
6	<b>BETTER PULL DOWN ACTION</b>	Increased and better pull down straight action and better protection from chips.

## Standard Flex Vises - Art. 1AZ

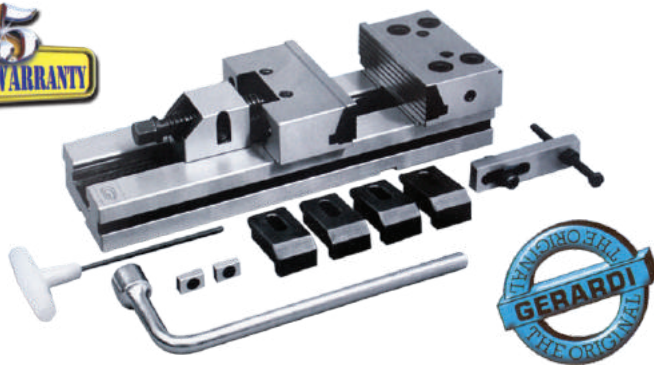


Adaptable to zero point system

	SIZE								
	2 (25kN)		3 (30kN)		4 (30kN)			5 (40kN)	
A	150	200	300	200	300	400	200	300	400
W	121	146		171			196		
B	38	48		58			63		
C	40	50		60			70		
D	345	420	520	455	555	655	495	595	695
G	95	125		145			170		
kg	12,9	25	29	37	42	47	64	69	75
<b>ART. 1AZ ORDER CODES</b>	<b>1.1A.Z2000</b>	<b>1.1A.Z3200</b>	<b>1.1A.Z3300</b>	<b>1.1A.Z4200</b>	<b>1.1A.Z4300</b>	<b>1.1A.Z4400</b>	<b>1.1A.Z5200</b>	<b>1.1A.Z5300</b>	<b>1.1A.Z5400</b>

MADE IN INDIA

**PRECISION MODULAR VISE 'STANDARD SERIES' WITH GUIDED MOVABLE JAW (ART. 1)**



**WISE WITH STANDARD ACCESSORIES**

- High precision and gang operation
- Pull down easy to change jaws
- Unlimited longevity
- Space saving design
- No "wear" construction
- Unlimited clamping range
- All steel construction hardened and ground HRc60

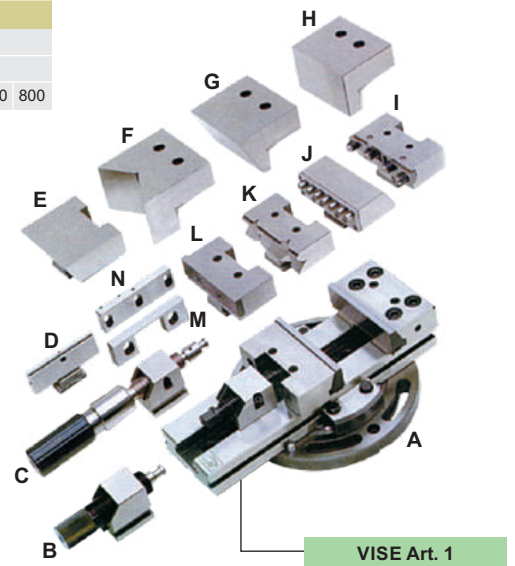
ART. 1	WISE SIZE															
	1	2	3	4		5			6							
JAW WIDTH	100	125	150	175		200			300							
JAW DEPTH	30	40	50	60		65			80							
MAX. JAW OPENING	100	150	200	300	200	300	400	500	600	200	300	400	500	600	700	800

Mention vise size (jaw width) and max. jaw opening for ordering

**List of Optional Accessories**

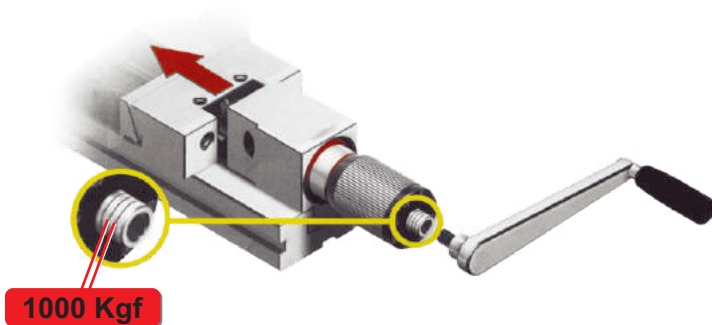
- A Swivel base - ART. 105
- B Blocking support with hydraulic cylinder - ART. 271
- C Hydraulic hand screw blocking device - ART. 257
- D Intermediate movable jaw with double step - ART. 212
- E Floating movable jaw for round parts - ART. 210
- F Fixed stack type prismatic jaw - ART. 150
- G Fixed and movable stack-type jaws for round parts - ART.131
- H Square stack-type jaws - ART. 138
- I Movable jaw with 2 floating segments - ART. 190
- J Floating movable jaw - hydraulic control - ART. 188
- K Step-prismatic guided movable jaw - ART. 217
- L Guided movable jaw - straight plate - ART. 146
- M/N Extension for fixed and movable jaw with screws - ART. 132/133

**Optional Accessories**



**HYDRAULIC CLAMPING OPTION**

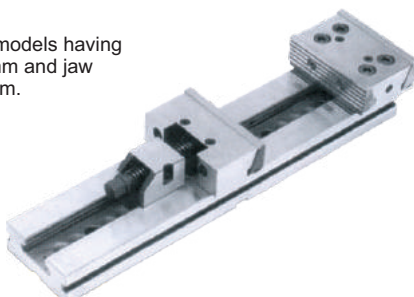
**Art. 257**



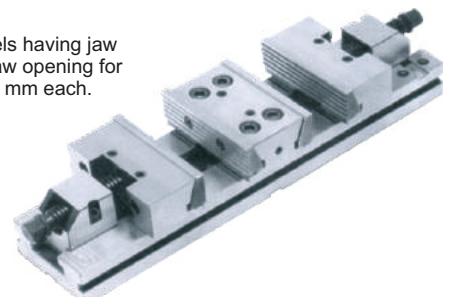
The hand hydraulic clamping group Art. 257 is an optional manual power multiplier alternative to the mechanical clamping of above vices. This device allows to reach the same clamping power reachable with the mechanical screw through a minimum effort. The hand hydraulic screw of Art. 257 is manually operated by the wrench included. All above Art. 1 vices can be purchased with Art. 257 fitted.

**MODULAR VISES "XL" SERIES**

**Art. 20**  
Available in different models having jaw width up to 300 mm and jaw opening up to 1100 mm.

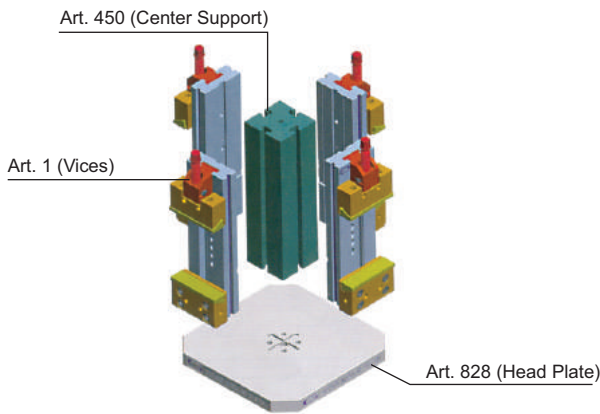


**Art. 30**  
Available in different models having jaw width up to 300 mm and jaw opening for two work pieces up to 460 mm each.



**STANDARD VICE TOWERS ART. 750** for Horizontal Machining Center

**MODULAR ELEMENTS**



**Art. 102**  
Movable section



**Art. 104**  
Double fixed section

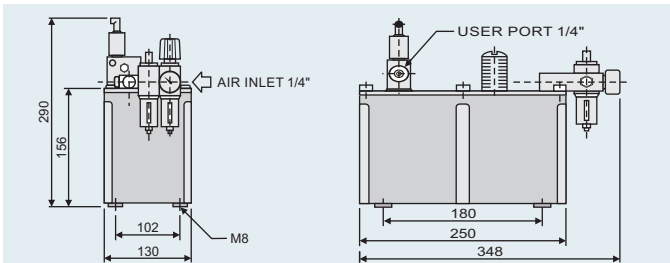


**Art. 103**  
Fixed section

Available in different models having jaw width upto 300 mm with unlimited opening. Suitable for large size workpieces (single or double clamping).

**HYDROPNEUMATIC POWER UNIT**

Gerardi hydropneumatic power unit for hydraulic clamping devices and its bi-products is designed to meet all needs regarding the powering of hydraulic cylinders where low flow rates and high pressures are required. It is driven by air at its inlet to produce hydraulic pressure at its outlet. The special design shape of the power unit is such that a high performance system can be implemented taking up very little space. Thanks to the special design principles, the pump section adopted allows the hydropneumatic power unit to be installed in very hostile environments, such as the work area of machine tools, etc. The unique modular hydraulic flow control system allows controlling up to 6 separate users from just one power unit.



SPECIFICATION	
MAX. PERMISSIBLE INLET AIR PRESSURE:	7 bar
RECOMMENDED INLET AIR PRESSURE:	5,5 bar
OIL DELIVERIES: 1.2-1.4-2.2-2.7-4.3	Liters/min
MAX. OIL OUTLET PRESSURE AT 5 BAR AIR INLET PRESSURE:	400 bar
MAX. NO. OF USERS RECOMMENDED:	6

Outlet pressure can be regulated and set to desired pressure.

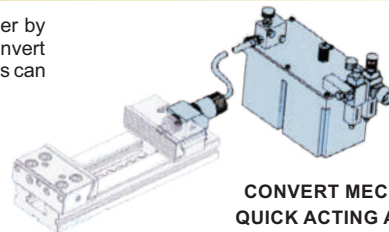
**Art. 393 - Power unit with Manual control, Art. 394 - Power unit with Pneumatic control, Art. 395 - Power unit with Electrical control**

The pump in its basic version is supplied complete with teflon tank, fill plug, silencer, quick acting air connector fitting and hydraulic control box. Also very suitable for operating swing Clamps (Single acting).

**PNEUMO - HYDRAULIC BLOCKING DEVICE**

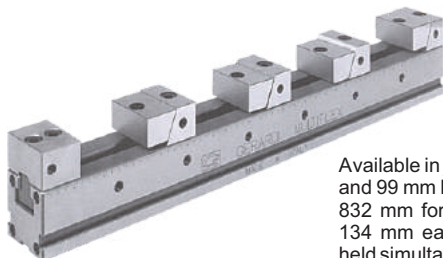
Above power unit can be used to operate Mechanical Modular Vices by Air-Hydraulic power by replacing the mechanical screw by Pneumatic-Hydraulic Blocking device as shown here to convert the mechanical modular vice into quick action air hydraulic vice for production setups. Six vices can be operated simultaneously with one power unit.

- Art. 390 with Manual control valve**
- Art. 391 with Electrical control valve**
- Art. 392 with Air control valve**

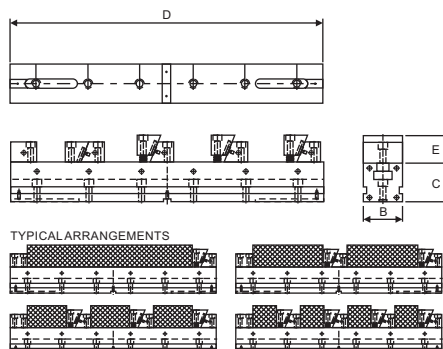


**CONVERT MECHANICAL VICE INTO QUICK ACTING AIR HYDRAULIC VICE**

**"MULTIFLEX" VICES ART. 600**



Available in jaw width 49 mm, 74 mm and 99 mm having jaw opening up to 832 mm for single piece and up to 134 mm each for four work pieces held simultaneously.

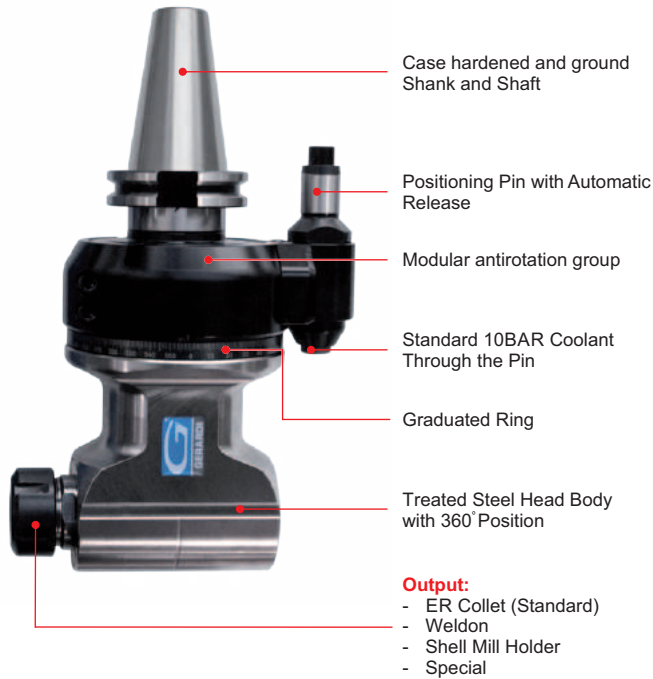


The "MULTIFLEX" series vices are a total new concept of modular clamping system able to maximize the machine table capacity and increase its productivity. The comb system even between the fixed and movable jaw, increases and improves the clamping capacity. Each vice is supplied with 1 fixed jaw and 4 fixed-movable jaws, One "T" wrench, 1 pair of positioning key nuts and 4 workstops.

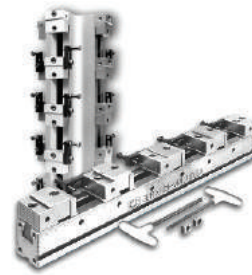
SIZE	D	B	C	E	Max opening according to pieces to be clamped									
					1	2	3	4	5	6	7	8	9	
1	300	50	50	32/25	208	75	30	8	\	\	\	\	\	\
	400	50	50	32/25	308	125	64	33	15	3	\	\	\	\
	500	50	50	32/25	408	175	96	58	35	19	8	\	\	\
	600	50	50	32/25	508	225	129	83	55	36	22	12	5	\
	700	50	50	32/25	608	275	161	108	75	52	36	24	16	\
2	400	75	75	40	275	100	41	12	\	\	\	\	\	\
	500	75	75	40	375	150	75	37	15	\	\	\	\	\
	600	75	75	40	475	200	108	62	35	16	3	\	\	\
	700	75	75	40	575	250	141	87	55	33	17	6	\	\
	800	75	75	40	675	300	175	112	75	50	32	18	8	\
3	700	100	100	60	532	217	112	59	28	7	\	\	\	\
	800	100	100	60	632	267	145	84	48	23	6	\	\	\
	900	100	100	60	732	317	178	109	68	39	20	5	\	\
	1000	100	100	60	832	367	211	134	88	55	34	18	5	\

**ANGLE HEADS**

ATC models for Automatic Tool Change and MTC models for Manual Tool Change machines



**OTHER PRODUCTS FROM GERARDI**



The most versatile  
MULTIFLEX Vises and Vise Towers for multi-clamping

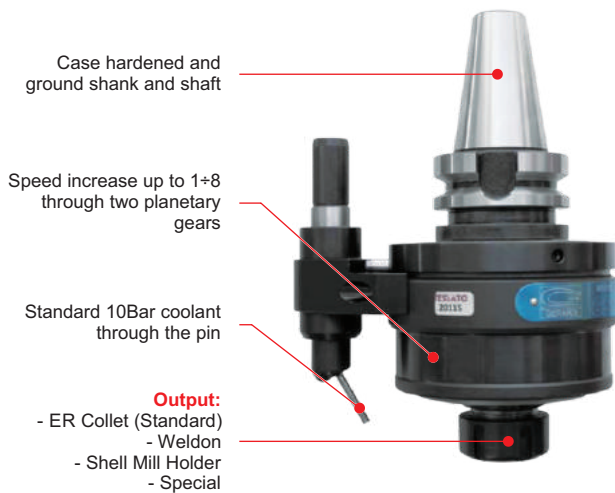
Self-centering or eccentric  
MULTITASKING vises for 5 axis machining centers



Zero Point  
(Hydraulic or Pneumatic)  
Immediate positioning & clamping of pallet, fixture, vise or workpiece.

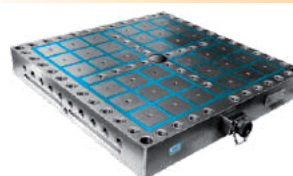
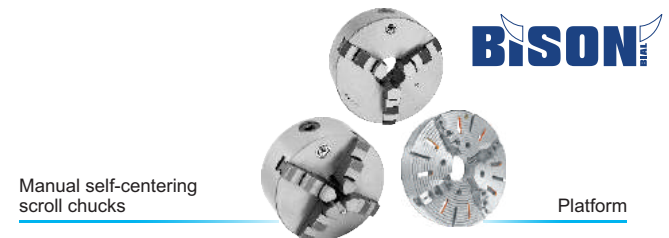
 <p><b>Bearings</b> Angular contact preloaded ball bearings of precision class ABEC7/9</p>	 <p><b>Gears</b> Gleason ground spiral bevel gears maximum performances and minimum vibration</p>	 <p><b>Stop Block</b> With case hardened bushing and gasket</p>
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**SPINDLE SPEEDERS**



Gerardi Driven tools

- Mazak
- Biglia
- Daewoo
- Mori seiki
- Nakamura
- HAAS
- Okuma
- Takisawa
- VDI



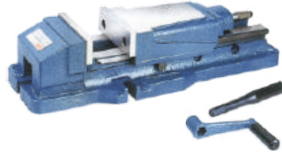
Grid magnetic plates for milling

**HYDRAULIC MACHINE VICE**

'GIN' Hydraulic Machine Vice is a suitable hydraulic vice for Milling machine. Can also be used on a machining centre.

- Operates on handle movement as in mechanical vices.
- High clamping force can be achieved by effortless handle movement which eliminates hammering on handle.

MODEL	JAW WIDTH	JAW DEPTH	MAX. JAW OPENING
GIN-HVA-100-01	100	36	170
GIN-HVA-125-01	125	46	220
GIN-HVA-150-01	150	51	300
GIN-HVA-200-01	200	62	300



**LOCK DOWN JAW HYDRAULIC MACHINE VICE**

Lock Down Jaw Design eliminates jaw lift and work piece tilt.

MODEL	JAW WIDTH	JAW DEPTH	MAX. JAW OPENING	OVERALL LENGTH
GPHV-125	130	55	220	570
GPHV-160	160	58	310	625
GPHV-200	200	63	310	725



**MC COMPACT HYDRAULIC VICE**

Compact version of GPHV model above.



MODEL	JAW WIDTH	JAW DEPTH	MAX. JAW OPENING	OVERALL LENGTH
GCHV-100 V	101	48	125	470
GCHV-130 V	131	55	180	535
GCHV-160 V	161	58	240	625
GCHV-200 V	201	63	280	700

**UNIVERSAL 3-WAY ANGLE VICE**

MODEL	JAW WIDTH	JAW DEPTH	MAX. JAW OPENING
GIN-VW3	80	30	90
GIN-VW4	106	38	105
GIN-VW5	132	40	140



**PRECISION KEYLESS DRILL CHUCK**

High quality Keyless Drill Chuck is most suitable for CNC and Milling machines.

MODEL	CAPACITY	TAPER
APU08-J 1	0-8	J 1
APU10-J 2	0-10	J 2S
APU13-J 6	1-13	J 6
APU16-J 6	3-16	J 6



Different types of shanks are also available separately.

**NC DRILL CHUCK - INTEGRATED TYPE**

The compact designed drill chuck provides higher accuracy, improved rigidity, and shorter overhang for holding drills.

Preventing from slip-out during machining, absolutely eliminating the disadvantage of connecting by taper. A dedicated Spanner is provided for powerful clamping.

Available in BT 30/40/50 and HSK shank having holding capacities 0-8 mm, 1-13 mm and 3-16 mm.



**BT TYPE TAPER WIPER**

MODEL	FOR SPINDLE TAPER
GIN-W30	BT-30
GIN-W40	BT-40
GIN-W50	BT-50



**CERAMIC EDGE FINDER**

Tips are made of Ceramic having 10 dia.



**ELECTRONIC (OPTICAL) EDGE FINDER**

'GIN' Electronic edge finder with LED is most convenient to use as the tip of the Touch Probe is brought near the edge of the job, red light powered by enclosed battery glows as the ball probe comes in contact with the edge.

- Concentricity of ball-probe and shank within 0.005 mm.
- Repeatability of work location within 0.01mm.
- Spring loaded Ball-probe to prevent damage of probe.



MODEL	SHANK DIA	BALL DIA	TOTAL LENGTH	TYPE
GIN TSOE 20S	20	10	120	WITH LED ONLY
GIN TSOE 20L	20	10	158	WITH LED ONLY
GIN TSOE 20LB	20	10	158	WITH LED AND BEEPER

**Z-AXIS PRESET GAUGE - OPTICAL TYPE Model GIN-ZOP-50**

Used for setting tool height 50mm. Its base has a built-in magnet hence can be used vertically as well as horizontally. The red lamp lights up when touched. Height can be micro adjusted by gauge block.

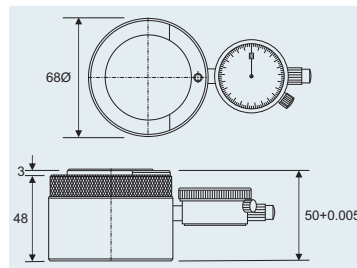


**Z-AXIS ZERO SETTER - Model Z-50**

Z-Axis Zero Setter is used for zero setting of tool height from the machine table on machining centres. Setting height : 50.00±0.01mm

Features:

- Large measuring surface to assure high measuring accuracy.
- Low Spring force to avoid breakage of small end mill and drill.
- Easy to calibrate by a ground parallel or gauge block.



**Z-AXIS ZERO SETTER - ZPM Series - Ceramic**

- Least measuring diameter of cutting tool : 0.1mm
- Scratch proof ceramic measuring face

MODEL	BASE TYPE
ZPM-50	Plain
ZPM-50 P	Magnetic
ZPM-100 P	Magnetic ON/OFF



ZPM-50/50P

ZPM-100P

## BORING HEAD - BHC Series

'GIN' BHC Series Boring Heads have wide base bearing surface that assures maximum rigidity even when the bar holder is in an offset position. The adjustment screw is ground after hardening. Shanks of different types and boring tools available separately.

MODEL	OUTER DIA	BORING BAR HOLE SIZE	CROSS HOLE DIA	OFFSET	LEAST COUNT
GIN-BHC2	50	12	12	15	0.01
GIN-BHC3	75	18	18	25	0.01
GIN-BHC4	100	25	25	25	0.01

Different types of shanks are also available separately.



## BORING HEAD - HIGH PRECISION FOR SMALL DIAMETER

GIN-BHW02 Series Boring head is high precision boring head most suitable for small diameters ranging from 3Ø to 5Ø. Different boring tools for different sizes of bores are available separately. All types of shanks are also available separately. Standard sets with boring tools also available. Ask for details

MODEL	OUTER DIA.	BORING BAR HOLE SIZE	OFFSET	LEAST COUNT
GIN-BHW02-50CK6	64	16	4.5	0.001



## BORING HEAD SETS AND BORING TOOLS

### MODEL GIN-BHC2 (SET) WITH THREE NOS. INDEXABLE INSERTS TYPE BORING BARS.

Sets available with different interchangeable shanks such as R8, NT30, NT40, NT50, MT2, MT3, MT4, MT5, BT40 & BT50.

MIN. BORING DIA	MAX. BORING DIA	MAX. BORING DEPTH	BORING BAR HOLE SIZE	BORING HEAD OUTER DIA	LEAST COUNT
8 mm	90 mm*	45 mm	12 mm	50	0.01 mm

\*Larger boring dia upto 150mm can be achieved by optional cross hole boring tool (GIN Model 59982-1236) available separately.



### MODEL GIN-BHC3 (SET) WITH THREE NOS. INDEXABLE INSERTS TYPE BORING BARS.

Sets available with different interchangeable shanks such as R8, NT30, NT40, NT50, MT2, MT3, MT4, MT5, BT40 & BT50.

MIN. BORING DIA	MAX. BORING DIA	MAX. BORING DEPTH	BORING BAR HOLE SIZE	BORING HEAD OUTER DIA	LEAST COUNT
12 mm	140 mm*	110 mm	18 mm	75	0.01 mm

\* Larger boring dia upto 250mm can be achieved by optional cross hole boring tool (GIN Model 59990-BH18-36) available separately.



## PRECISION BORING TOOLS - WITH INDEXABLE CARBIDE INSERTS

Boring tools available in shank dia 12mm to shank dia 25mm for all models of GIN boring heads. These boring tools are available in different sizes and lengths to achieve different sizes of bores.

Side type boring tools to be used in cross hole of boring head for large diameter boring



## MODEL GIN-BH2084 SETS

Complete with boring tools available with different interchangeable shanks such as R8, NT30, NT40, NT50, MT3, MT4, MT5, BT40 & BT50.

GIN MODEL	BH 2084 SET	MIN. BORING DIA	MAX. BORING DIA	MAX. BORING DEPTH	BORING BAR HOLE SIZE	BORING HEAD OUTER DIA	LEAST COUNT
59490C	With 3 boring tools	12 mm	115 mm	110 mm	20 mm	84 mm	0.005 mm
59490D	With 8 boring tools	8 mm	270 mm	110 mm	20 mm	84 mm	0.005 mm



## UNIVERSAL BORING AND FACING MASTER HEAD SET

### Model GIN-BHAM (SET)

Universal Boring and Facing Head model GIN-BHAM has very precise construction with auto feed and stop. Working range is 5 mm to 250 mm.

Available complete with boring bars, boring tools etc. with different shanks such as BT40, BT50, R8, NT30, NT40, NT50, MT3, MT4, MT5.

BORING BAR HOLE SIZE	CROSS HOLE DIAMETER	OFFSET
18	18	15

Standard sets are with indexable inserts type carbide boring tools.



**TOOL MAKER VICE GIN VB**

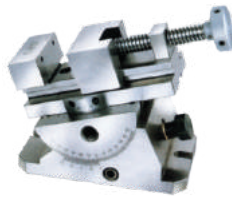
All hardened and tempered 56-60 HRC having parallelism and squareness within 0.005 mm. It has improved design where the pin is not required to change position for changing jaw opening.



MODEL	OVERALL WIDTH	JAW DEPTH	MAX. JAW OPENING	OVERALL LENGTH
GIN - VB 15	36	20	40	100
GIN - VB 20	50	25	80	150
GIN - VB 25	63	32	90	175
GIN - VB 30	73	35	100	190
GIN - VB 35	88	40	130	235
GIN - VB 40	100	45	130	245
GIN - VB 50	125	50	160	285

**PRECISION UNIVERSAL VICE**

Model GIN-CHM has horizontal swivel 360° and tilts 45° vertically. Most suitable for precision grinding, milling, EDM etc. having micro adjustment of tilt angle.



MODEL	JAW WIDTH	JAW DEPTH	MAX. JAW OPENING
CHM-80	70	30	80
CHM-125	125	43	150

**PRECISION STEEL PARALLELS SET Model GIN-P100**

'GIN' Precision steel parallels set consists of 8 pairs (16 pieces) of flat steel parallels as per sizes given below and one pair (2 pieces) of thin edged parallels for use where minimum contact area with the job is required.

MODEL GIN-P100 HAVING TOTAL 18 PCS.

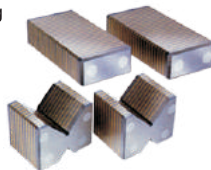
SIZES OF FLAT STEEL PARALLELS	PCS
5 X 16 X 100	2
6 X 18 X 100	2
8 X 24 X 100	2
10 X 30 X 100	2
12 X 36 X 150	2
14 X 48 X 150	2
18 X 60 X 150	2
22 X 62 X 150	2
15 X 31 X 2.5 X 200 (THIN EDGE TYPE)	2



**MAGNETIC INDUCTION BLOCKS**

Nonmagnetic GT1, GT2 can be magnetic after being inducted on any magnetic chuck.

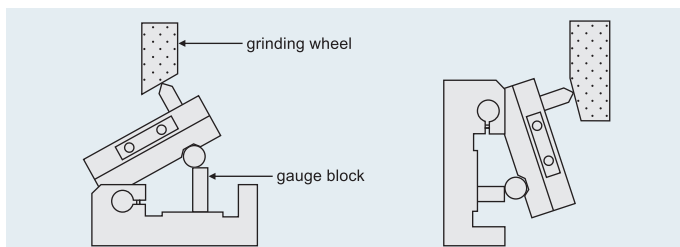
MODEL	A x B x L x Pcs.	TYPE
GIN-GT 1	25 x 50 x 100 x 2 pcs.	Plain
GIN-GT 2	46 x 49 x 58 x 2 pcs.	V-Type



**ANGLE SINE DRESSER**

Angle Sine Dresser is a precision grinding wheel dresser on any type of surface grinding machine to dress the grinding wheel at any angle from 0 to 60 degree with smoothness and accuracy. Desired angle is set with the help of gauge blocks. Diamond dresser is fitted on a moveable slide and wheel is dressed by moving the slide to and fro manually.

MODEL	OVERALL LENGTH
GIN-AP50	87



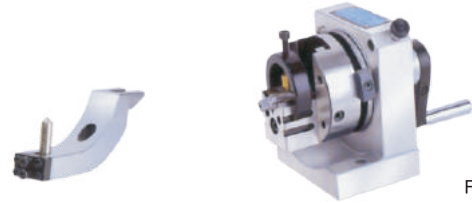
**PUNCH FORMER WITH RADIUS DRESSING ATTACHMENT**

**MODEL GIN - PFB**

'GIN' Precision Punch Former is a precision grinding instrument for precision grinding of round and angular shaped parts to form punches, EDM electrodes etc. on surface grinding machine or universal grinding machine. Besides round, radius and multi angle punches, any special form can be ground precisely as shown below. Punch holding capacity is 4ø to 30ø and centre height is 80mm.



Shapes of punches formed by holding a punch on GIN - PFB and by Grinding on surface grinder.



Radius Dressing Attachment is a standard accessory of GIN - PFB which can be held on the V-Block of the Punch Former for radius dressing of grinding wheel upto 200ø

Punch to be formed is held in the V-Block & V-Block can be slid vertically to bring the punch at concentric position

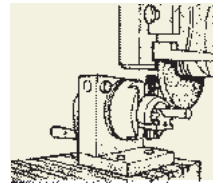
Front view

**PRECISION STEEL PARALLELS SET Model GIN-P100**

'GIN' Precision steel parallels set consists of 8 pairs (16 pieces) of flat steel parallels as per sizes given below and one pair (2 pieces) of thin edged parallels for use where minimum contact area with the job is required.

MODEL GIN-P100 HAVING TOTAL 18 PCS.

SIZES OF FLAT STEEL PARALLELS	PCS
5 X 16 X 100	2
6 X 18 X 100	2
8 X 24 X 100	2
10 X 30 X 100	2
12 X 36 X 150	2
14 X 48 X 150	2
18 X 60 X 150	2
22 X 62 X 150	2
15 X 31 X 2.5 X 200 (THIN EDGE TYPE)	2



Punch Forming on surface grinding machine



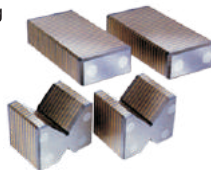
Rear view

24 position index plate for quick, auto index every 15 degrees. Any other angle can also be set and locked manually

**MAGNETIC INDUCTION BLOCKS**

Nonmagnetic GT1, GT2 can be magnetic after being inducted on any magnetic chuck.

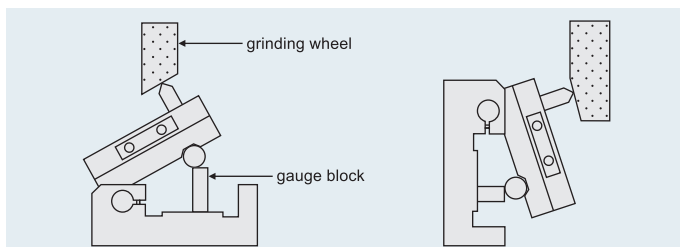
MODEL	A x B x L x Pcs.	TYPE
GIN-GT 1	25 x 50 x 100 x 2 pcs.	Plain
GIN-GT 2	46 x 49 x 58 x 2 pcs.	V-Type



**ANGLE SINE DRESSER**

Angle Sine Dresser is a precision grinding wheel dresser on any type of surface grinding machine to dress the grinding wheel at any angle from 0 to 60 degree with smoothness and accuracy. Desired angle is set with the help of gauge blocks. Diamond dresser is fitted on a moveable slide and wheel is dressed by moving the slide to and fro manually.

MODEL	OVERALL LENGTH
GIN-AP50	87



**Optional Accessories for Punch Former**



Angular dressing attachment Model PFB-1 for Punch Former for angular dressing of grinding wheel. PFB-1 is held in the V-Block of Punch Former and required angle is set. Then angular dressing of the wheel is done manually by moving the slide of PFB-1 to and fro on which dresser is mounted.

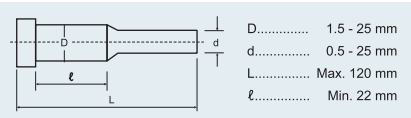
Sine Plate Model SPF-50 for forming taper punches on Punch Former. Punch Former is mounted on Sine plate SPF-50 and required precise angle is set by keeping gauge blocks under the roller.

Both of the above accessories are adaptable to Punch Former model GIN-PFB and can be ordered separately.

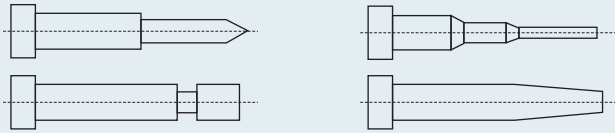


**PUNCH GRINDER - Model GIN-PGA**

'GIN' Punch grinder is a tool which can be put on the table of surface grinding machine for grinding punches. It can do cylindrical grinding of punches precisely on a surface grinding machine.



**Examples of shapes of punches which can be made**



**PUNCH GRINDER - Model GIN-PGAS**

'GIN' Punch grinder Model GIN-PGAS is a smaller precise version of above Punch Grinder which can grind punches from dia 0.5mm to 10mm. If the diameter of the punch to be ground is above 6 mm then Model GIN-PGA shown above is recommended.



**MOTOR PUNCH GRINDER - Model GIN-PGAM**

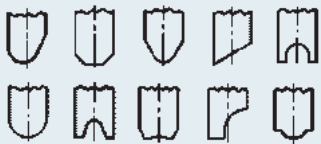
'GIN' Motor Punch grinder is a motorized version of Punch Grinder Model GIN-PGA which eliminates manual handle rotation. It is a single hand portable machine which can be easily kept on grinding machine. With rollers being motor driven, operator can concentrate on machine feeds. Can be used with sine table to grind punches in angle. Radius on punches can be obtained by dressing the grinding wheel in radius.



**RADIUS AND ANGLE DRESSER**

'GIN' Radius And Angle Dresser is a precision grinding wheel dresser on any type of surface or Tool & Cutter grinding machine to dress the grinding wheel to any desired form - any combination of tangents and radius - either convex or concave as shown below. Radius is set very precisely with the help of slip gauges.

**Shapes of grinding wheels achieved by dressing with Radius And Angle Dresser**



Model GIN RDB for wheel dia up to 8"  
 Model GIN RDC for wheel dia up to 11"

**RADIUS AND ANGLE DRESSER Model GIN-RDA**

Same as above model with an added feature of built-in gauge for zero setting.

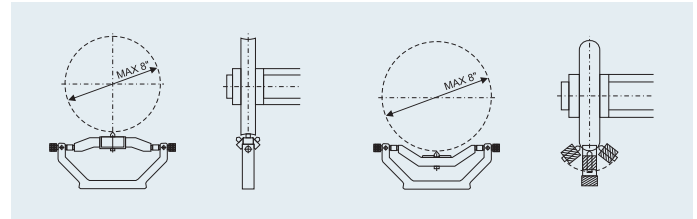
Max convex R 45mm, Max concave R 100mm, Max horizontal movement is 65mm.



**RADIUS DRESSER Model GIN-RD40**

This dresser is applied on surface grinders to dress the wheels convex or concave. It is suitable for wheels under 8" diameter.

The working range are :  
 Convex R : 0-40R (m/m)  
 Concave R : 0-90R (m/m)



**PRECISION DUPLEX DRESSER**

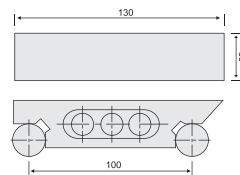
Precision Duplex Dresser is designed to simultaneously dress both sides of a grinding wheel, precisely and without deformation.

Model	Max width of wheel	Max dressing depth	Min dressing width	Dial Graduation
GIN-DF60	40 mm	40 mm	0.2 mm	0.02 mm / Div.



**SINE BAR Model GIN-S100**

Accuracy 0.005mm in parallelism and center distance of rollers.



**SINE PLATE WITH MAGNETIC CHUCK**

Accuracy 0.005mm in parallelism, squareness and center distance of rollers.

MODEL	MAGNETIC TOP SIZE	OVERALL HEIGHT IN CLOSED POSITION
SP47M	175 x 100	87
SP66M	150 x 150	87
SP510M	250 x 125	87
SP612M	300 x 150	87



**COMPOUND SINE PLATE WITH MAGNETIC CHUCK**

MODEL	MAGNETIC TOP SIZE	OVERALL HEIGHT IN CLOSED POSITION
CSP 47M	175 x 100	122
CSP 66M	150 x 150	122
CSP 510M	250 x 125	122
CSP 612M	300 x 150	122





PUNCH FORMER (BIG)



3 JAWS PUNCH FORMER



ER COLLET PUNCH FORMER



MOTOR PUNCH FORMER



UNIVERSAL WHEEL DRESSER



DIAMOND CBN FLAT WHEEL TRUER



FLANGES FOR GRINDING MACHINES



WHEEL BALANCING STAND



PERMANENT MAGNETIC CHUCK



PERMANENT MAGNETIC CHUCK (VERTICAL TYPE)



ROTARY PERMANENT MAGNETIC CHUCK



ELECTRICALLY CONTROLLED PERMANENT MAGNETIC CHUCK



GAUGE BLOCKS



PIN GAUGE SET



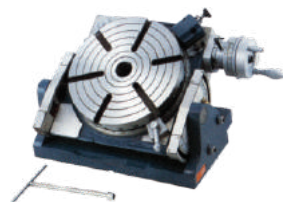
DEMAGNETIZER - HANDY TYPE & STANDARD TYPE



SUPER THIN CHUCKS FOR MILLING



SUPER INDEX SPACER



UNIVERSAL TILTING ROTARY TABLE



CHAMFERING MACHINES



UNIVERSAL CUTTER GRINDER



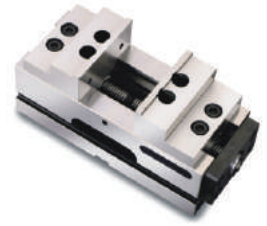
ADJUSTABLE FIXTURES AND VICES FOR WIRE EDM



WIRE EDM DIVIDING DEVICE



ELECTRODE VICE



SELF-CENTERING VICE



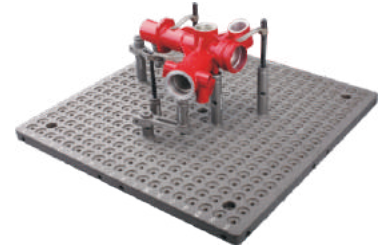
CENTER PUNCH FORMER



THREAD GRINDING SLIDER



PRECISION UNIVERSAL THIN CHUCK PAEDESTAL



FIXTURES AND ELEMENTS FOR CMM



3D TASTER



CENTERING INDICATOR



CONCENTRICITY MEASURING INSTRUMENT



TOOL PRE-SETTER



SMALL DIA FINE BORING HEAD



LARGE DIA BORING HEAD



MICRO BORING HEAD



QUICK CHANGE TAPPING CHUCKS



CUTTING-OFF MACHINE



BALL ENDMILL GRINDER



SCREW TAP GRINDER



AIR TAPPING MACHINE

**DRILL GRINDING MACHINE**

- Quick re-sharpening of HSS or Carbide drills of taper or straight shank.
- Two separate stations for point angle grinding and relieving
- Very easy to learn operation by instruction sheet.
- CBN grinding wheel for HSS drills and all size collets included as standard equipment. SDC grinding wheel for carbide drill and additional collets are optional.



MODEL	DRILL DIA CAPACITY	DIA CAPACITY WITH OPTIONAL COLLETS	POINT ANGLE ADJUSTMENT	POWER	N.W. KGS.
SDG - 13	3 - 13	3 - 13	90° - 135°	AC-220V / 120W	10
SDG - 20	3 - 20	3 - 20	90° - 135°	AC-220V / 120W	11
SDG - 26	13 - 26	8 - 30	85° - 140°	AC-220V / 250W	29

**END MILL GRINDING MACHINE**

- Quick re-sharpening of HSS or Carbide end mills.
- Very easy to learn operation by instruction sheet.
- SDC grinding wheel for carbide drills and all sizes collets included as standard equipment. CBN grinding wheel for HSS drill and additional collets are optional.
- Grinds 2-Flute, 3-Flute, 4-Flute end mills and bigger than 12 dia 6-Flute end mills



MODEL	END MILL DIA CAPACITY	POINT ANGLE	POWER	N.W. KGS.
SEM - 14	4 - 14	0° - 5°	AC-220V / 180W	12
SEM - 30	13 - 30	0° - 5°	AC-220V / 250W	25

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## ER SPRING COLLETS as per DIN 6499

All below given sizes of ER Collets are available in single piece packing.

Collet Type	Size - Diameter Range (mm)
ER16	1-0.5, 1.5-1, 2-1.5, 3-2, 4-3, 5-4, 6-5, 7-6, 8-7, 9-8, 10-9
ER 20	1-0.5, 1.5-1, 2-1.5, 3-2, 4-3, 5-4, 6-5, 7-6, 8-7, 9-8, 10-9, 11-10, 12-11, 13-12
ER 25	1-0.5, 1.5-1, 2-1.5, 3-2, 4-3, 5-4, 6-5, 7-6, 8-7, 9-8, 10-9, 11-10, 12-11, 13-12, 14-13, 15-14, 16-15
ER 32	1-0.5, 1.5-1, 2-1.5, 3-2, 3.5-2.5, 4-3, 5-4, 6-5, 7-6, 8-7, 9-8, 10-9, 11-10, 12-11, 13-12, 14-13, 15-14, 16-15, 17-16, 18-17, 19-18, 20-19
ER 40	3-2, 4-3, 5-4, 6-5, 7-6, 8-7, 9-8, 10-9, 11-10, 12-11, 13-12, 14-13, 15-14, 16-15, 17-16, 18-17, 19-18, 20-19, 21-20, 22-21, 23-22, 24-23, 25-24, 26-25, 27-26, 28-27, 29-28, 30-29



## ER COLLETS AND COLLET CHUCK SETS

Following sizes of ER Collet & Collet Chuck sets with spanner in an attractive plastic carry box are available.



Collet Chuck Set With Spanner	15 Pieces Collet Sizes Included In Set
ER 32 - BT - 30	3-2, 4-3, 5-4, 6-5, 7-6, 8-7, 9-8, 10-9, 12-11, 14-13, 15-14, 16-15, 17-16, 18-17, 20-19
ER 32 - BT - 40	3-2, 4-3, 5-4, 6-5, 7-6, 8-7, 9-8, 10-9, 12-11, 14-13, 15-14, 16-15, 17-16, 18-17, 20-19
ER 32 - BT - 50	3-2, 4-3, 5-4, 6-5, 7-6, 8-7, 9-8, 10-9, 12-11, 14-13, 15-14, 16-15, 17-16, 18-17, 20-19
ER 40 - BT - 40	3-2, 4-3, 5-4, 6-5, 8-7, 10-9, 12-11, 14-13, 15-14, 16-15, 18-17, 20-19, 22-21, 24-23, 26-25
ER 40 - BT - 50	3-2, 4-3, 5-4, 6-5, 8-7, 10-9, 12-11, 14-13, 15-14, 16-15, 18-17, 20-19, 22-21, 24-23, 26-25

## ER SPANNER

Following spanners are available for tightening and loosening collet chucks of respective sizes.

Sizes
ER25 - Star Type
ER32 - Star Type
ER40 - Star Type



## PULL STUDS - MAS 403

Following sizes of Pull Studs are available:

Sizes	Sizes
PS - BT30 - 30°	PS - BT40 - 45°
PS - BT30 - 45°	PS - BT50 - 30°
PS - BT40 - 30°	PS - BT50 - 45°



## ER COLLECT CHUCKS

Hardened high grade steel, precision ground.

Sizes	Sizes
BT30 - ER16 x 60	BT40 - ER32 x 70
BT30 - ER20 x 60	BT40 - ER32 x 100
BT30 - ER25 x 60	BT40 - ER40 x 80
BT30 - ER32 x 60	BT50 - ER16 x 70
BT30 - ER40 x 70	BT50 - ER20 x 70
BT40 - ER16 x 70	BT50 - ER25 x 80
BT40 - ER20 x 70	BT50 - ER32 x 80
BT40 - ER25 x 70	BT50 - ER40 x 80



## SIDE LOCK ADAPTOR (End Mill Holder)

Hardened high grade steel, precision ground.

Sizes	Sizes
BT40 - SLA 8 dia x 65	BT40 - SLA 32 dia x 90
BT40 - SLA 10 dia x 65	BT40 - SLA 40 dia x 90
BT40 - SLA 12 dia x 65	BT50 - SLA 20 dia x 105
BT40 - SLA 16 dia x 65	BT50 - SLA 25 dia x 105
BT40 - SLA 20 dia x 90	BT50 - SLA 32 dia x 105
BT40 - SLA 25 dia x 90	BT50 - SLA 40 dia x 105



## SHELL MILL ARBOR

Hardened high grade steel, precision ground.

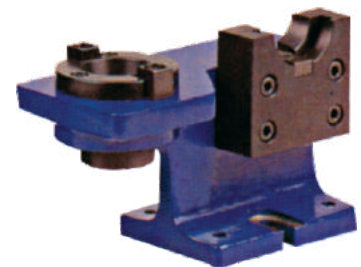
Sizes	Sizes
BT40 - 22 dia x 60	BT40 - 32 dia x 60
BT40 - 22 dia x 90	BT50 - 27 dia x 90
BT40 - 27 dia x 60	BT50 - 32 dia x 75
BT40 - 27 dia x 105	



## HORIZONTAL / VERTICAL CNC TOOL TIGHTENING FIXTURE

Used for tightening the tool in the tool holder outside the machine.

Model	Taper
TTF-BT-30	BT-30
TTF-BT-40	BT-40
TTF-BT-50	BT-50



## UNIVERSAL ARM MAGNETIC STAND : Model MS-80

- Rigid locking of the stand by one central knob.
- Magnetic Base with ON / OFF Switch size : H55 x W50 x L63.
- Magnetic Pull : 80 Kgs.
- Dial Holder hole ID = 8mm with micro adjustment.
- Main stem height = 290 mm.

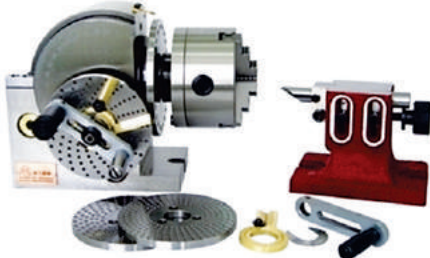


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## SEMI - UNIVERSAL INDEX CENTER (DIVIDING HEAD)

'SOGGO' Semi - Universal Index Centre 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. The direct index plate of 24 and three plates in the standard accessories make the indirect dividing possible in any number from 2 to 50 and in certain numbers up to 380.

Model	Centre Height	Centre Taper
SBS - 0	100	MT2
SBS - 1	128	MT3



Standard accessories include dividing plate A, B, C and tail stock. Chuck not included.

## UNIVERSAL INDEX CENTER (DIVIDING HEAD)

'SOGGO' Universal Index Centre has been designed to carry out all types of gear cutting. 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 highest engineering standards and is factory inspected and tested to assure complete satisfaction. The ratio of worm to gear is 1:40.



Standard accessories include dividing plate A, B, C, tail stock and complete set of gears.

Chuck not included.

Model	Centre Height	Centre Taper
SBS - 2	133	MT4

## HORIZONTAL AND VERTICAL ROTARY TABLE

Available in different sizes from 110Ø to 400Ø. Can be mounted horizontally as well as vertically.

Model	Table Dia
SHV-4	110
SHV-6	150
SHV-8	200
SHV-10	250
SHV-12	300
SHV-14	350
SHV-16	400



## PERMANENT MAGNETIC LIFTER

'SOGGO' High power permanent magnets ensure steady power for an unlimited period. All lifting magnets are tested as per safety factor of 1:3.5.

Model	Lifting Capacity
SPML-100	100 kgs
SPML-300	300 kgs
SPML-600	600 kgs
SMPL-1000	1000 kgs
SPML-2000	2000 kgs
SPML-3000	3000 kgs



## SINE PLATE WITH MAGNETIC CHUCK

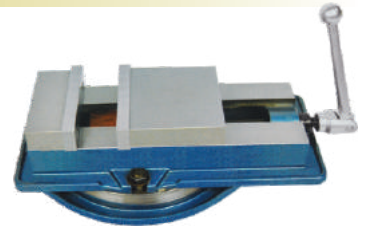
Accuracy 0.005mm in parallelism, squareness and center distance of rollers.

MODEL	MAGNETIC TOP SIZE	OVERALL HEIGHT IN CLOSED POSITION
SSP47M	175 x 100	87
SSP66M	150 x 150	87
SSP510M	250 x 125	87
SSP612M	300 x 150	87



## ANGLOCK MILLING VICE

- Parallelism and square within 0.025mm/100mm.
- Special segment mechanism minimizes jaw lift and Workpiece tilt.
- Ductile iron construction for high durability.

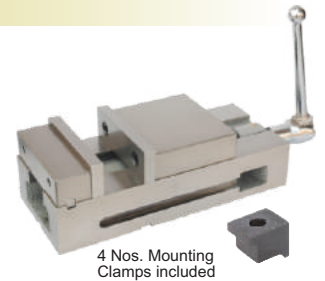


Model	Jaw Width	Jaw Depth	Max. Jaw Opening	Overall Length
SLV-4	100	32	100	310
SLV-6	160	45	150	412
SLV-6L	160	45	200	425
SLV-8	200	50	190	500

All above models available with or without swivel base.

## COMPACT ANGLOCK VICE

This is a compact version of Anglock Milling Vice.



MODEL	JAW WIDTH	JAW DEPTH	MAX. JAW OPENING	OVERALL LENGTH
SCLV-6	160	47	160	390

## TWO-WAY ANGLE MILLING VICE

- Made of high grade cast iron.
- The vice can be adjusted and locked at any angle from the horizontal position to the vertical position and also has swivelling base with rotation of 360°.

Model	Jaw Width	Jaw Depth	Max. Jaw Opening
STW-4	100	41	80
STW-5	125	45	95
STW-6	160	50	125



## QUICK ACTION DRILL VICE

Most suitable for production setups on Drilling or Light milling operations. Rapid Clamping / Locking and quick release of workpiece saves cycle time.

Model	Jaw Width	Jaw Depth	Max. Jaw Opening
SQV-100	100	38	100



## DRILL MACHINE VICE - HEAVY DUTY

Heavy cast iron construction for rigid clamping.

Model	Jaw Width	Jaw Depth	Max. Jaw Opening
SDV-100	100	46	102
SDV-150	160	52	152

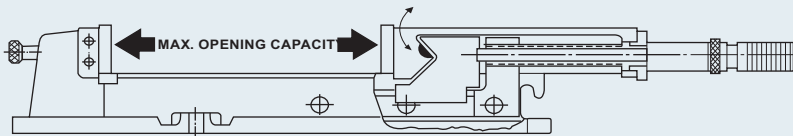
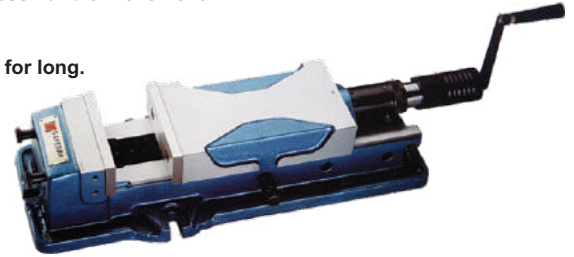


## LOCK DOWN JAW HYDRAULIC MACHINE VICE

'SAFEWAY' Lock Down Jaw Hydraulic Machine Vice has 'Down thrust semi-sphere segment' mechanism which eliminates jaw lift and work piece tilt. These vices have in-built hydraulic system hence do not require any external hydraulic line. Vice is operated by handle movement as in mechanical vices. Most suitable for Milling machine or Machining centre.

- High clamping force in forward as well as downward direction is achieved by effortless handle movement.
- Extra large jaw opening.
- Rigid Material-vice body made of ductile iron having 80,000 psi tensile strength.
- Vice bed is flame hardened to HRC 45 which does not wear and maintains accuracy for long.

MODEL	JAW WIDTH	JAW DEPTH	MAX. JAW OPENING	OVERALL LENGTH
PHV-130	130	55	220	505
PHV-160	160	58	300	625
PHV-200	200	63	300	700
PHV-250	250	80	340	810



← 2 KGS of power in this direction  
Produce 1 KG of downward.  
↓ Down thrust "semi-sphere segment"  
Mechanism-eliminates jaw lift and work-piece tilt.

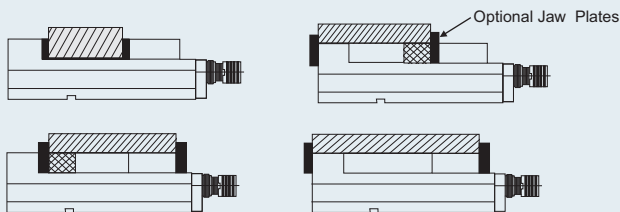
## MC COMPACT HYDRAULIC VICE

This vice has all features of above PHV model including Lock down jaw mechanism. These vices have in-built hydraulic system hence do not require any external hydraulic line. Vice is operated by handle movement as in mechanical vices. Due to its compact design and accuracy, it is more suitable for machining centre for multiple vice setups.

MODEL	JAW WIDTH	JAW DEPTH	MAX. JAW OPENING	MAX. JAW OPENING WITH OPTIONAL JAW PLATES	OVERALL LENGTH
CHV-100 V	101	48	125	320	475
CHV-130 V	131	55	180	380	540
CHV-160 V	161	58	240	470	630
CHV-200 V	201	63	280	540	705



### Examples of Clamping



Above vice is also available in one more model with 90° handle driving mechanism as shown below.



CHV-VD Model  
with 90° handle driving mechanism

## DRILL GRINDING MACHINE

'SAFEWAY' Drill Grinding Machine is a portable machine used for Quick & Accurate grinding of Drill point.

- Easy operation, precision grinding by unskilled operator.
- Diamond Wheel for long lasting service life and precise grinding angle.
- Built-in collet bracket for easy management of collets (All sizes collets supplied with the machine).
- Grinds point angle as well as chisel edge angle of a drill.
- Can also grind solid carbide drills with optional Grinding Wheel.

MODEL	DIA. CAPACITY	ANGLE CAPACITY	POWER
SA-1300	3Ø - 13Ø	90° - 144°	Single Phase AC -220 V
SA-2000	3Ø - 20Ø	90° - 144°	Single Phase AC -220 V
SA-2500	13Ø - 26Ø	90° - 144°	Single Phase AC -220 V



Front View



Rear View

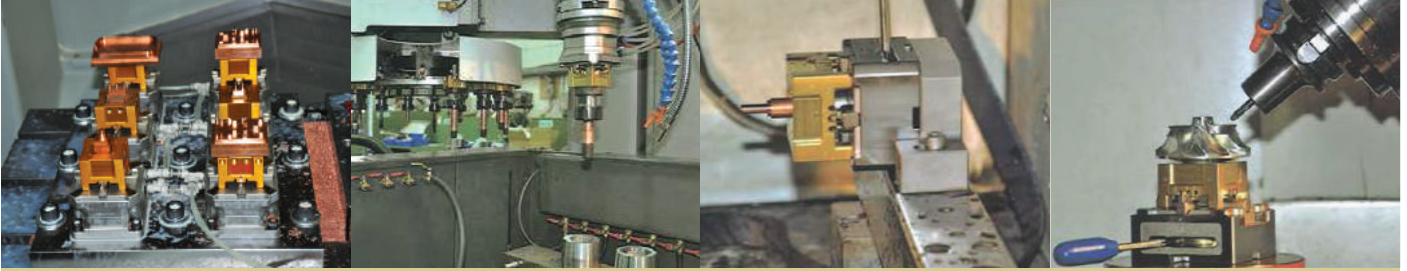




# CHUCKS FOR PRODUCTION MACHINING, EDM AND WIRECUT EDM

MARKETED IN INDIA BY ABBOTT TOOLFAST PVT. LTD.

## FOR TOOL / DIE MAKING AND PRODUCTION



**2µm REPEAT POSITIONING ACCURACY**

- WORKPIECE
- FIXTURING
- MAKING ELECTRODES
- EDM SINKING
- WIRECUT EDMING
- MEASURING

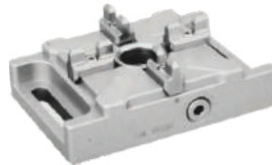
## MANUAL CHUCKS



HM 80E  
CHUCK FOR MILLING



HL- 110E  
CHUCK FOR LATHE & MILLING



HW- 128E  
CHUCK FOR WIRECUT EDM & MILLING



HE- 65E  
CHUCK FOR EDM

## QUICK MANUAL CHUCKS



QL-110E  
CHUCK FOR LATHE & MILLING



QW-128E  
CHUCK FOR WIRECUT & MILLING



QE-84E  
CHUCK FOR EDM & MILLING



QE-88E  
CHUCK FOR EDM & MILLING

## PNEUMATIC CHUCKS



AE-88E  
CHUCK FOR EDM & MILLING



AE-88EW  
CHUCK FOR EDM & MILLING



AM-138EPC  
CHUCK FOR MILLING

## ELECTRODE / WORKPIECE HOLDERS AND WIRECUT EDM ACCESSORIES

### ELECTRODE / WORKPIECE HOLDERS



### DRAWBARS



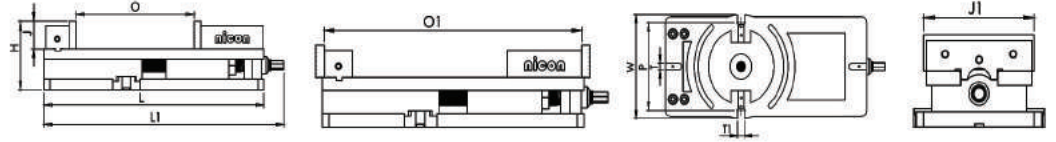
### WIRECUT EDM WORKHOLDERS





**N - 171**

**LOCK DOWN JAW MACHINE VICE**

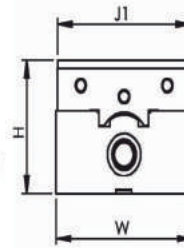
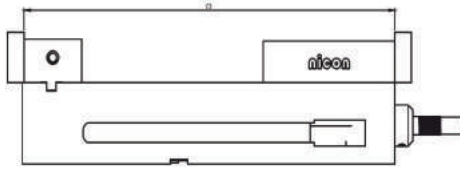
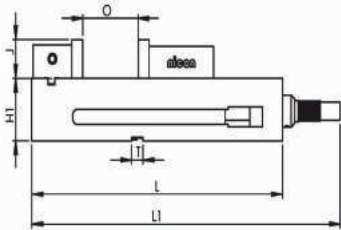


▶ DIMENSIONS IN MM

MODEL NO.	L	W	H	L1	O	O1	J	J1	P	T	T1	WEIGHT IN KGS.	CLAMPING PRESSURE IN Kgs.
MMV100	340	190	100	360	125	290	35	110	145	16	17	16	1500
MMV150	395	190	130	435	175	385	48	160	150	16	17	32	3000
MMV160+	435	190	130	450	225	435	48	160	150	16	17	34	3000
MMV200	575	250	152	565	250	510	60	210	250	16	17	60	4000
MMV200+	560	250	152	610	300	550	60	210	210	16	20	63	4000

**COMPACT LOCK DOWN JAW MACHINE VICE**

**N - 131**



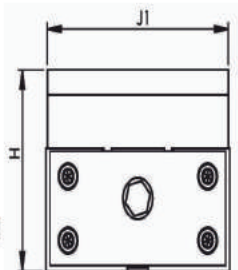
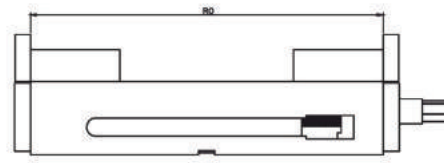
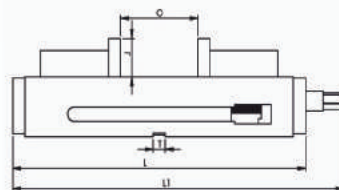
▶ DIMENSIONS IN MM

MODEL NO.	L	J1	H	L1	H1	O	RO	J	J1	T	Weight in Kgs.	Clamping pressure in kgs.
CMV150	390	152	117	455	75	150	390	50	150	18	32	3000



**N - 132**

**SELF CENTERING LOCK DOWN JAW MACHINE VICE**

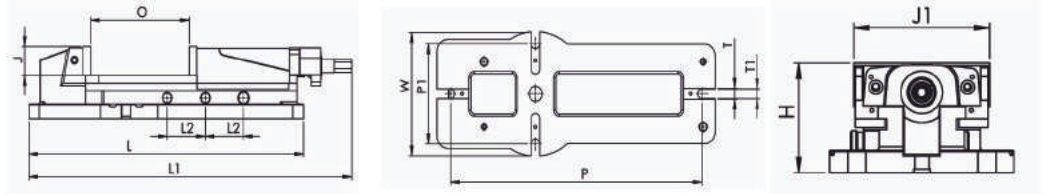


▶ DIMENSIONS IN MM

MODEL NO.	L	H	O	RO	L1	J	J1	T	Weight in Kgs.	Clamping pressure in kgs.
SCV150	430	122	160	390	486	47	152	18	34	2000

**N - 181**

**HYDRAULIC MACHINE VICE**

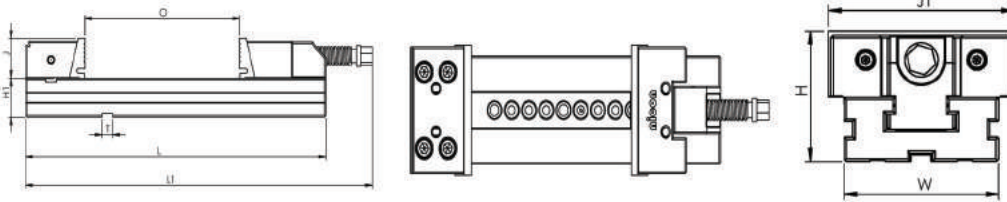


▶ DIMENSIONS IN MM

MODEL NO.	L	W	H	O	L1	L2	J	J1	P	P1	T	T1	WEIGHT IN KGS.	CLAMPING Pressure In Kgs.
HCMV150	530	205	119	210	650	75	48	150	480	165	18	17	37	3500
HMV150	606	232	136	300	690	100	52	155	560	185	18	17	50	4500

**PRECISION MODULAR VICE**

**N - 101**



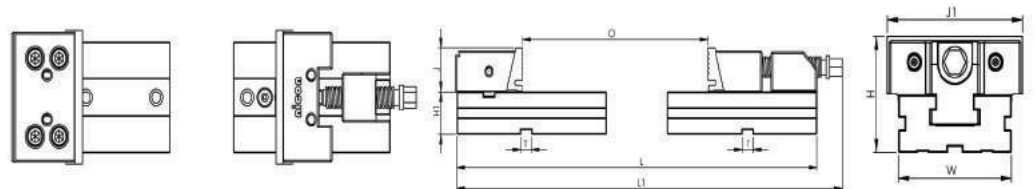
▶ DIMENSIONS IN MM

MODEL NO.	L	W	H	O	L1	H1	J	J1	T	WEIGHT IN KGS.	CLAMPING Pressure In Kgs.
PMV100	350	100	85	165	400	45	40	110	16	15	2500
PMV150	450	125	100	225	520	50	50	150	16	27	4000
PMV150+	525	125	100	300	595	50	50	150	16	30	4000



**N - 102**

**PRECISION TWO PIECE MODULAR VICE**

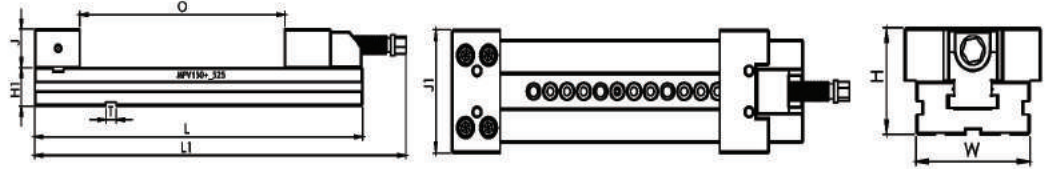


▶ DIMENSIONS IN MM

MODEL NO.	L	W	H	O	L1	H1	J	J1	T	WEIGHT IN KGS.	CLAMPING Pressure In Kgs.
TPMV150	LIMITLESS	125	100	LIMITLESS	LIMITLESS	50	50	150	16	27	3000

**N - 108**

**PRECISION MODULAR VICE WITH PARALLEL BLOCKS**

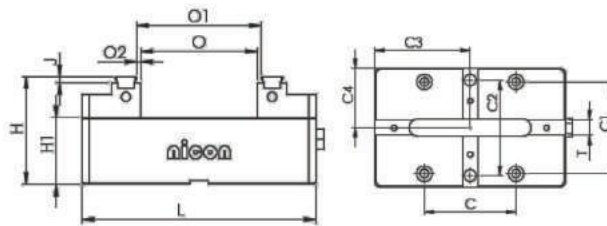
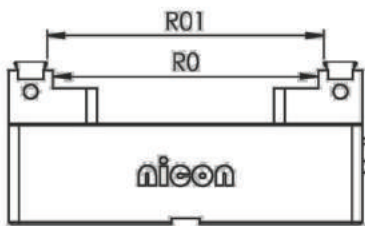


▶ DIMENSIONS IN MM

MODEL NO.	L	W	H	O	L1	H1	J	J1	T	WEIGHT IN KGS.	CLAMPING Pressure In Kgs.
MPV125	362	100	85	205	410	45	40	125	16	13	3000
MPV150	450	125	100	255	520	50	50	150	16	26	4000
MPV150+	525	125	100	325	595	50	50	150	16	29	4000

**PRECISION 5-AXIS MACHINE VICE**

**N - 121**



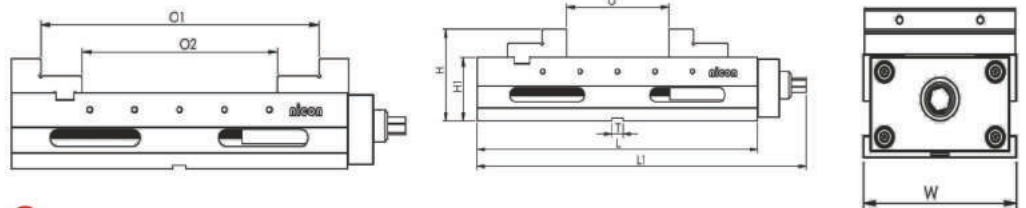
▶ DIMENSIONS IN MM

MODEL NO.	L	W	H	O	O1	O2	RO	R01	H1	J	J1	C	C1	C2	C3	C4	T	Weight in Kgs.	Max Clamping pressure in kgs.
FAV125	210	125	92	100	105	3	150	155	57	3	125	96	96	100	105	62.5	16	12	5000



**N - 104**

**HIGH GRIP MACHINE VICE**

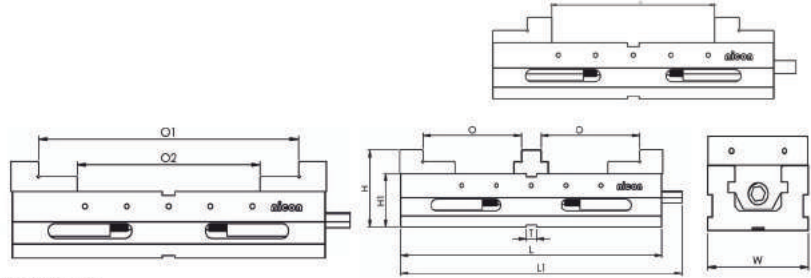


▶ DIMENSIONS IN MM

MODEL NO.	L	W	H	L1	H1	O	O1	O2	T	Weight in Kgs.	Clamping pressure in kgs.
HGV150	450	152	130	528	90	210	372	262	18	40	5000

**N - 105**

**SELF CENTERING HIGH GRIP MACHINE VICE**

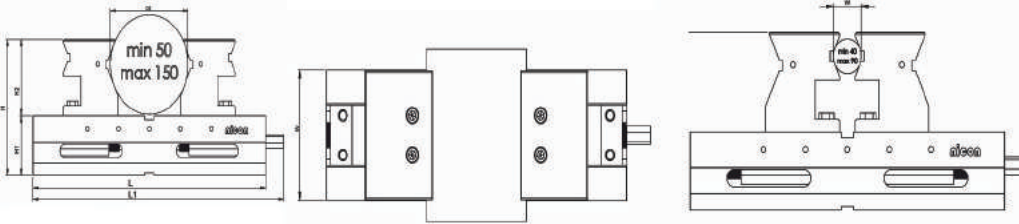


**DIMENSIONS IN MM**

MODEL NO.	L	W	H	L1	H1	O	O1	O2	O3	T	Weight in Kgs.	Clamping pressure in kgs.
SHGV150	450	152	130	485	90	260	375	263	169	18	43	5000

**SELF CENTERING HIGH GRIP SHAFT VICE**

**N - 106**



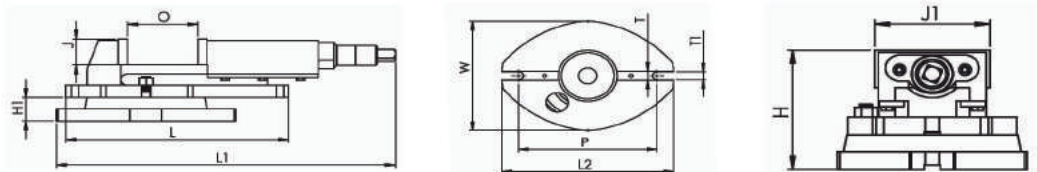
**DIMENSIONS IN MM**

MODEL NO.	L	W	H	L1	H1	H2	O	O1	O2	T	Weight in Kgs.	Clamping pressure in kgs.
SHGV150	450	150	205	485	90	115	169.5	40-90	50-150	18	48	4000



**N - 151S**

**PRECISION MILLING MACHINE VICE SWIVEL BASE**

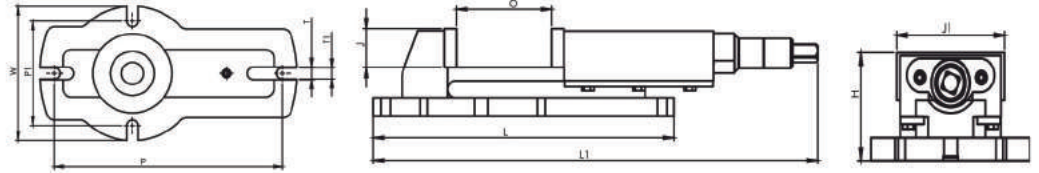


**DIMENSIONS IN MM**

MODEL NO.	L	W	H	H1	L1	L2	O	J	J1	P	T	T1	Weight of Swivel Base
MVS100	293	171	120	34	455	234	103	39	104	189	14.4	13	16
MVS125	360	208	142	34	530	266	128	47	127	230	17.4	16	28.5
MVS150	400	240	142	34	590	300	157	49	154	260	17.4	16	38
MVS200	470	292	173	43	730	370	204	60	204	420	17.4	16	73

**N - 151**

**PRECISION MILLING MACHINE VICE SWIVEL BASE**

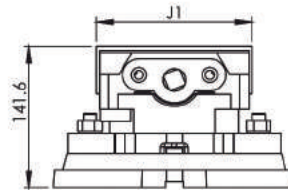
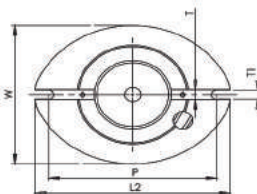
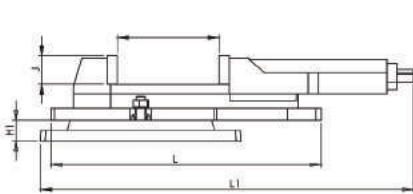


**DIMENSIONS IN MM**

MODEL NO.	L	W	H	L1	O	J	J1	P	P1	T	T1	Weight of Fixed Base
MV100	293	152	86	455	103	39	104	260	120	14.4	13	12
MV125	360	190	105	530	128	47	127	320	155	16	16	22
MV150	400	210	108	590	157	49	154	350	175	16	16	29
MV200	470	262	130	725	204	60	204	420	220	16	16	56

**MILLING MACHINE VICE SWIVEL BASE (ECONOMY MODEL)**

**N - 201S**

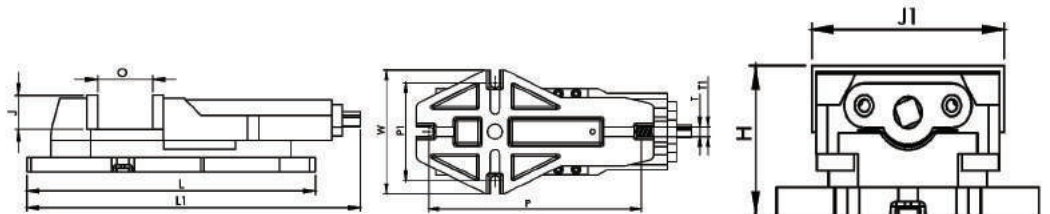


**DIMENSIONS IN MM**

MODEL NO.	L	W	H	H1	L1	L2	O	J	J1	P	T	T1	Weight In Kgs With Swivel Base
MVSE100	310	170	120	34	440	234	100	38	102	189	14.4	13	15
MVSE150	430	240	141	35	550	300	152	49	154	260	17.4	16	32

**N - 201**

**MILLING MACHINE VICE FIXED BASE (ECONOMY MODEL)**



**DIMENSIONS IN MM**

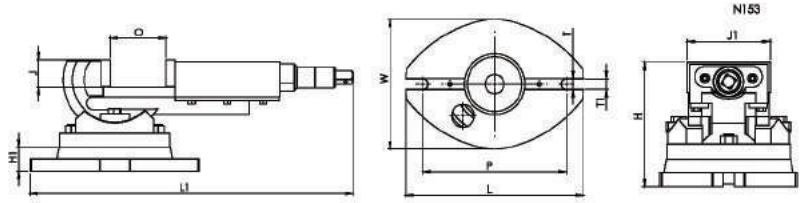
MODEL NO.	L	W	H	L1	O	J	J1	P	P1	T	T1	Weight In Kgs Without Swivel Base
MVE100	310	152	86	455	100	38	100	260	120	14.4	13	11
MVE150	403	210	107	541	153	49	153	360	166	16	16	26

**N - 153**

**TILTING AND SWIVELING MACHINE VICE**



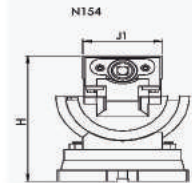
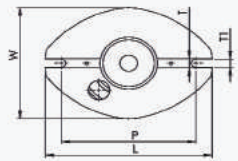
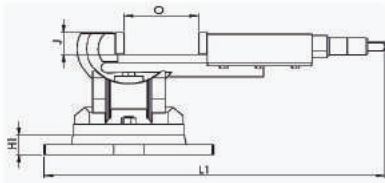
▶ DIMENSIONS IN MM



MODEL NO.	L	W	H	L1	H1	O	J	J1	P	T	T1	Weight In Kgs.
TSV75	200	140	135	195	28	75	35	77	170	13	13	12
TSV100	234	171	154	475	34	103	38	104	190	14.4	13	21
TSV125	266	208	180	560	34	128	48	127	230	17.4	16	28
TSV150	300	240	192	625	34	154	48	154	260	17.4	16	39
TSV200	370	292	230	835	43	204	60	204	420	17.4	16	70

**3-WAY TILT AND SWIVEL MACHINE VICE**

**N - 154**



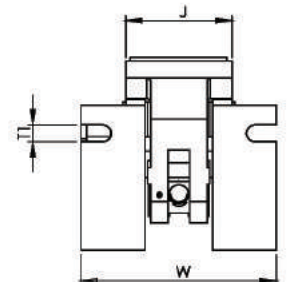
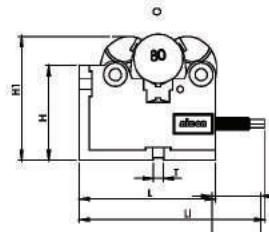
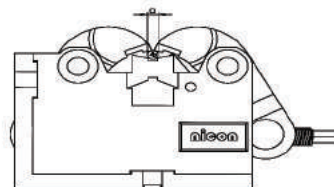
▶ DIMENSIONS IN MM

MODEL NO.	L	W	H	L1	H1	O	J	J1	P	T	T1	Weight In Kgs.
TSTV75	200	140	158	375	28	75	35	77	170	13	13	9
TSTV100	234	171	214	473	34	103	38	104	189	14.4	13	21
TSTV125	266	208	238	530	34	128	48	127	230	17.4	16	37
TSTV150	300	240	255	625	34	154	48	154	245	17.4	16	50



**N - 155**

**SELF CENTERING SHAFT VICE**

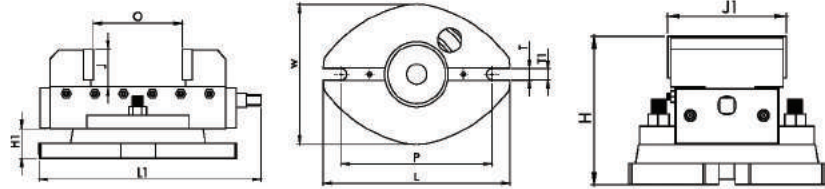


▶ DIMENSIONS IN MM

MODEL NO.	L	L1	W	H	H1	J	T	T1	O	Weight In Kgs
SCSV100	100	222	303	155	202	110	16	16	27-80	23

**N - 158 & 158P**

**SELF CENTERING VICE SWIVEL & FIXED BASE**

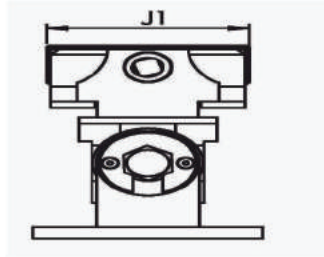
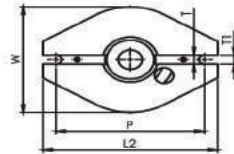
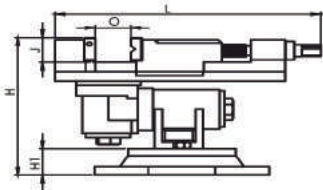


**DIMENSIONS IN MM**

MODEL NO.	L	W	H	L1	H1	O	J	J1	P	T	T1	Weight of Swivel Base	Weight of Fixed Base
SCVS100	234	171	124	265	34	104	42	103	189	14.4	13	14	10

**COMPACT UNIVERSAL MACHINE VICE**

**N - 156**

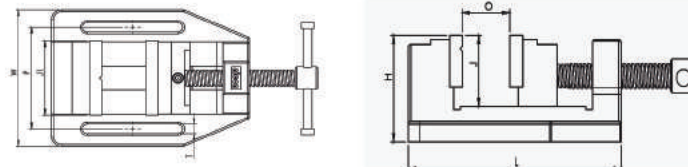


**DIMENSIONS IN MM**

MODEL NO.	L	W	H	H1	L2	O	J	J1	P	T	T1	Weight in Kgs.
CUMV100	280	136	176	25	184	70	30	100	158	11.8	11.5	12.5

**N - 163**

**DRILL PRESS VICE DELUXE MODEL**



**DIMENSIONS IN MM**

MODEL NO.	L	W	H	O	J	J1	T	P	Weight in Kgs.
DVD75	195	148	80	75	52	80	10	110	4.5
DVD100	225	186	94	115	65	108	15	145	9
DVD150	310	240	105	150	70	162	15	200	17

**N - 164**

**PROFESIONAL DRILL PRESS VICE**



▶ DIMENSIONS IN MM

MODEL No.	JAW WIDTH	JAW OPENING	JAW DEPTH	LENTH OVERALL	WIDTH OVERALL	HIGHT	WEIGHT In Kgs.
PDV85	85	89	25	280	89	50	4
PDV 100	100	114	35	336	205	57	7
PDV125	125	125	50	394	250	87	14
PDV150	152	195	79	470	260	103	25

**TOOL ROOM BENCH VICE**

**N - 182**

▶ DIMENSIONS IN MM

MODEL No.	JAW WIDTH	JAW OPENING	WEIGHT In Kgs.
TRV100	100	105	8
TRV125	125	150	18
TRV150	150	170	30



**N - 160**

**BENCH VICE HEAVY DUTY DOUBLE RIBBED**

▶ DIMENSIONS IN MM



MODEL No.	JAW WIDTH	JAW OPENING	WEIGHT In Kgs.
BVD75	75	100	6
BVD90	90	110	8
BVD100	100	125	13
BVD115	115	140	16
BVD125	125	150	21
BVD150	150	175	26
BVD200	200	240	38

**N - 161**

**BENCH VICE UNBREAKABLE STEEL BODY**

▶ DIMENSIONS IN MM



MODEL No.	JAW WIDTH	JAW OPENING	WEIGHT In Kgs.
BVU100	100	125	9.5
BVU125	125	150	14
BVU150	150	175	17
BVU200	200	225	25



## BT ADAPTER (MAS 403) BALANCED - G6.3@12000 RPM



Tapper	Series	Product	Gauge Length (GPL)
BT	BT30	ER/FMA/SLA/MT	Std. 70, 100 & Length (GPL)
	BT40		Std. 70, 100, 150L & 200, 250, & 300L
	BT50		Std. 70, 100, 150L & 200, 250 & 300L

## ABT ADAPTER (MAS 403) BALANCED - G6.3@12000 RPM



Tapper	Series	Product	Gauge Length (GPL)
ABT	ABT30	ER/FMA/SLA/MT	Std. 70, 100 & 150L
	ABT40		Std. 70, 100 & 150L
	ABT50		Std. 70, 100 & 150L

## HYDROGRIP ADAPTOR (BT-MAS 403) BALANCED - G6.3@12000 RPM



Tapper	Series	Product	Gauge Length (GPL)
BT	BT40	Hydrogrip Adaptors	Std. 100
	BT50		Std. 100

## MODULAR ADAPTER - CBK BALANCED - G6.3@12000 RPM



Tapper	Series	Product	Gauge Length
BT-CBK	BT40	CBK - Modular Adaptors	Std. 95, 125, 155, & 185L
	BT50		Std. 125 & 155L

## BT - BLANK TOOL ADAPTORS BALANCED - G6.3@12000 RPM



Tapper	Series	Product	Gauge Length
BT	BT40	BLANK TOOL ADAPTORS	Std. 150 & 250L
	BT50		Std. 150 & 25

## SK (DIN 69871) & CAT (ANSI B5.5) BALANCED - G6.3@12000 RPM



Tapper	Series	Product	Gauge Length
SK & CAT	SK40	ER/FMA/SLA/MT	Std. 70, 100 & 150L
	SK50		Std. 100, 150L & 200L
	CAT40		Std. 70, 100 & 150L

## ISO (DIN 2080) BALANCED - G6.3@12000 RPM



Tapper	Series	Product	Gauge Length (GPL)
ISO	ISO40	ER/SMA/SLA/MT	Std. GPL-70L
	ISO50		Std. GPL-70L

## Baby collet / Cylindrical Chuck



Tapper	Product	Gauge Length (GPL)
Straight Shank	ER8 TO ER40 (In Mini, Hex, & UM Nut)	Std. 100, 150 & 200L

## ER NUT



Tapper	Series	Range
Nut	ER11,ER16,ER20,ER25,ER32 & ER40	M,Mini, A-Hex, & UM Nut

## PULL STUD



Product	Series	Range
Pull Stud	BT30,BT40,BT50,SK40,SK50 & CAT40	30°, 45° & 90°

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