

# Widest Range of Machine Tool Accessories

## TOOLFAST



CLAMPING DEVICES, CLAMPING ELEMENTS



MILLING & GRINDING ACCESSORIES



MILLING, GRINDING & CNC ACCESSORIES



FIXTURE CLAMPS



HYDRAULIC VICES & DRILL GRINDING MACHINE



MODULAR VICES  
ANGLE HEADS & LIVE TOOLING



CGM



CHUCKS FOR PRODUCTION  
MACHINING & EDM



TOOL HOLDERS, DRILLING, MILLING & CNC ACCESSORIES



This catalogue has all the products that Abbott Toolfast offers with minor essential details.  
For more details you may contact us for detailed catalogues or visit company websites.

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TOOLFAST is a registered trade mark of our company and all TOOLFAST products are manufactured by us. Other products illustrated in this catalogue are all world renowned products marketed by us in India.

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## 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 Forged, Hardened & Tempered

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-hole 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



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## 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

### HIGHT 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-24-200	M-24	200
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-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-12	M-12	125
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 Forged, 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** Hardened & 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	M-16	175	30 X 80
TCSB-16-125		125	40 X 50
TCSB-16-150		150	40 X 65
TCSB-16-175	M-20	175	40 X 80
TCSB-16-200		200	40 X 100
TCSB-20-150		150	50 X 60
TCSB-20-175	M-24	175	50 X 70
TCSB-20-200		200	50 X 80
TCSB-24-175		175	60 X 70
TCSB-24-200	M-24	200	60 X 80
TCSB-24-225		225	60 X 90



**CLAMPING STUD** Hardened & 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	M-12	200	13 X 125	
TCS-12-75		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	M-14	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-16	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-20		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	M-24	200	19 X 125	
TCS-16-250		250	19 X 160	
TCS-16-300		300	19 X 190	
TCS-20-100		M-30	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	M-30	400	27 X 250	
TCS-20-500		500	27 X 250	
TCS-24-150		M-30	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	M-30	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	M-30	500	43 X 250	



**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	16	25	M16	200
TTB-1616-80				80
TTB-1616-130				130
TTB-1616-200	18	28	M16	200
TTB-1618-80				80
TTB-1618-100				100
TTB-1618-130				130
TTB-1618-160				160
TTB-1618-200	20	32	M20	200
TTB-1618-250				250
TTB-1618-290				290
TTB-2020-110	22	35	M20	110
TTB-2020-150				150
TTB-2020-210				210
TTB-2022-110				110
TTB-2022-150				150
TTB-2022-210	24	40	M24	210
TTB-2022-285				285
TTB-2424-150				150
TTB-2424-210	28	44	M24	210
TTB-2428-110				110
TTB-2428-150				150
TTB-2428-210				210
TTB-2428-250				250
TTB-2428-300	36	54	M30	300
TTB-3036-200				200
TTB-3036-250				250
TTB-3036-300	M30	300	300	



**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-20	M-20	30
TELN-24	M-24	36
TELN-30	M-30	45





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### 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-12	M-12	18
TFN-16	M-16	24
TFN-20	M-20	30
TFN-24	M-24	36



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

Also Included T-Slot Cleaner **FREE**



### 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-20	M-20	7	48
TPW-24	M-24	9	60
TPW-30	M-30	11	70



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

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

based on IS : 4291

Kurled 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



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

New



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.

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

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

Also Included T-Slot Cleaner **FREE**



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 :

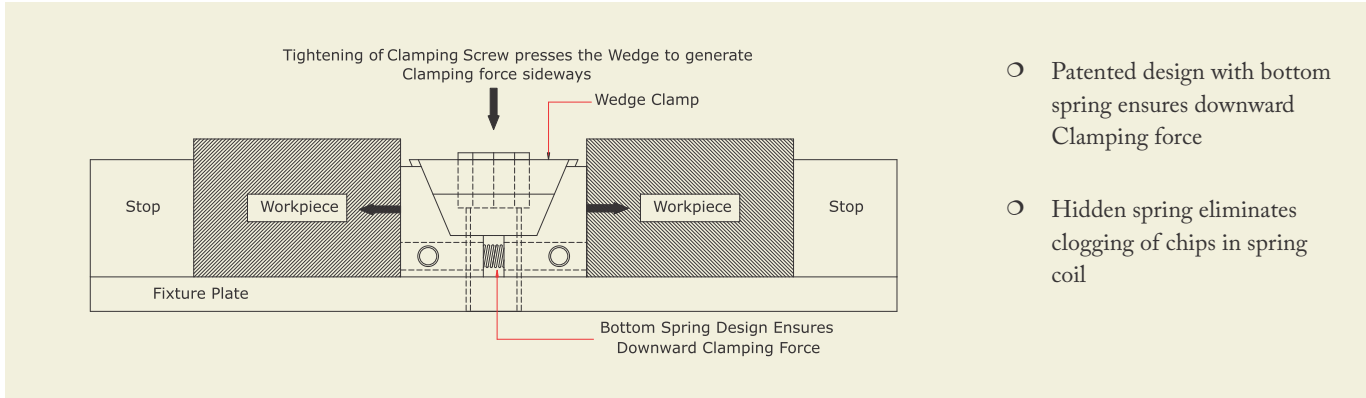
- T-Nuts : 4 nos.
- Clamping Studs of four different lengths : 4 nos. each
- Flanged Nuts : 4 nos.
- Extension Nuts : 2 nos.
- Strap Clamps of two different lengths : 2 nos. each
- Adjustable Support Plates of two different sizes : 2 nos. each

T-Slot size mentioned in these pages is size 'A' of the T-Slot as shown here.

Visit [www.toolfastclamps.com](http://www.toolfastclamps.com) for online details of above products or write to us for a print copy

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

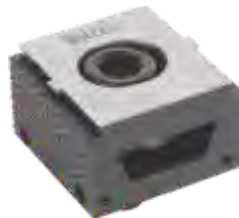
'TOOLFAST' manufactures all models of wedge clamps with new patented design now in India.



- 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	CLAMPING FORCE
TWC-8	M8	2500 Kgs
TWC-12	M12	5000 Kgs
TWC-16	M16	10000 Kgs



**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	CLAMPING FORCE
TWC-8 P	M8	2500 Kgs
TWC-12 P	M12	5000 Kgs
TWC-16 P	M16	10000 Kgs



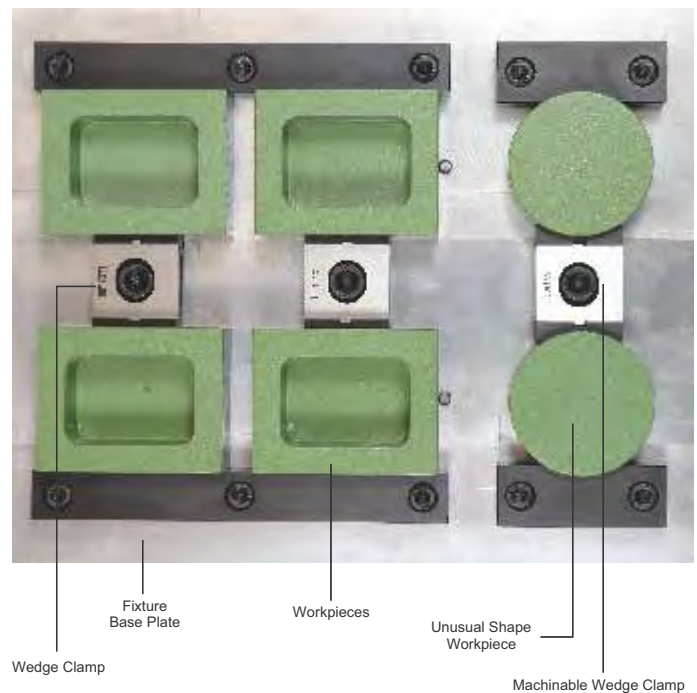
**WEDGE CLAMP - TWC-M SERIES** *Machinable Jaws*

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	CLAMPING FORCE
TWC-8 M	M8	2500 Kgs
TWC-12 M	M12	5000 Kgs
TWC-16 M	M16	10000 Kgs

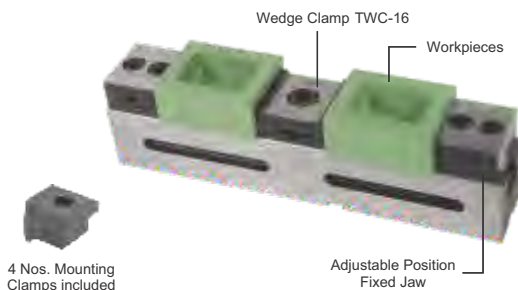


**MULTIPLE WORKPIECE CLAMPING FIXTURES WITH TWC SERIES WEDGE CLAMPS DESIGNED & MANUFACTURED BY TOOLFAST**



**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**



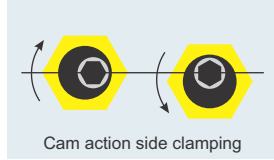
**FIXTURE CLAMPS - ECCENTRIC TYPE**

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



**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.

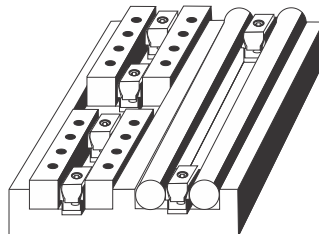


**UNIFORCE CLAMPS - WEDGE TYPE**

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.



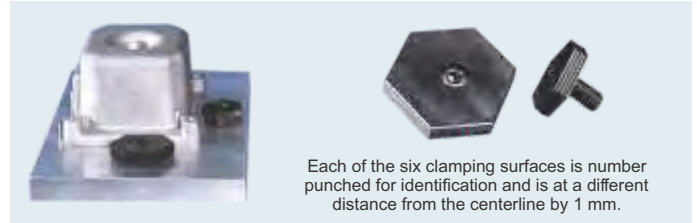
Clamping by ID Expansion Clamp  
on a multiple clamping fixture

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.

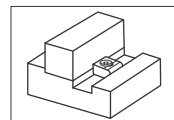


**PITBULL CLAMPS**

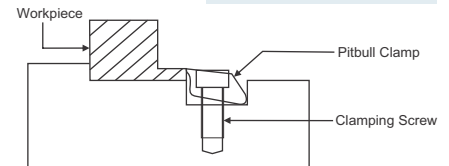
The Pitbull Clamp is a revolutionary new fixture clamp with positive down force and a low gripping profile. High vertical and horizontal clamping forces are generated, considering the size of the Pitbull Clamps. It uses a standard cap screw and an oil resistant O-ring. The Pitbull Clamp is available 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.

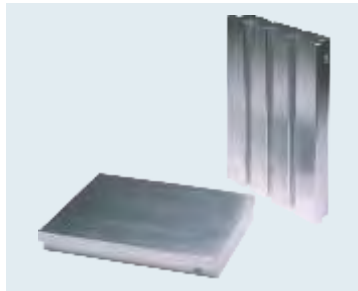
### VERSAGRIP VISE JAWS

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.

Low profile base unit quickly mounts to machine table. Operates with 5 Kg/cm<sup>2</sup> standard shop air.



#### VACUUM CHUCK APPLICATION



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

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



#### PALLET CHANGER APPLICATION

## 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



## 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

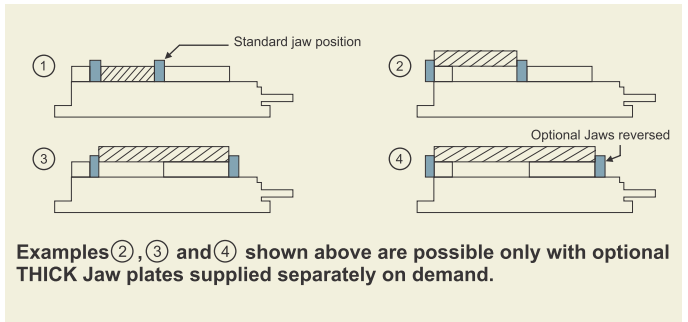
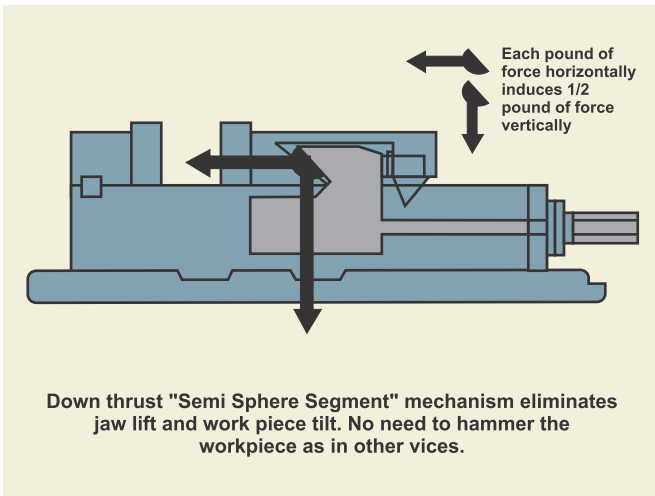
Sizes APS-110 to APS-200 are in open ends type as shown in picture.  
 Sizes APS-225 to APS-300 are in webbed ends type .



**LOCK DOWN JAW MACHINE VICE**

**FOR MACHINING CENTRE AND MILLING MACHINE**

- ❑ Accuracy in Parallelism & Squareness within 0.02 mm
- ❑ Unbreakable ductile iron cast body
- ❑ No work piece tilt after clamping
- ❑ All parts interchangeable and available as spares
- ❑ Tenons and tenon slots provided for effortless trueing 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-4-H	110	105	270	37	330	135	95	150	2000 Kgs.	22	16
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 all above three sizes of vice.



**OPTIONAL JAWS FOR MMV-6HXL**

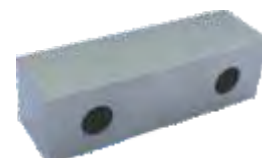
**SERRATED JAW PLATE**

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



**MACHINABLE JAW PLATE**

- Extra thick (40mm) for carving part shapes into jaw plate.
- Reversible top to bottom and front to back, (counter bore both sides).
- Available in Aluminium and steel both.



**V-JAW PLATE**





**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

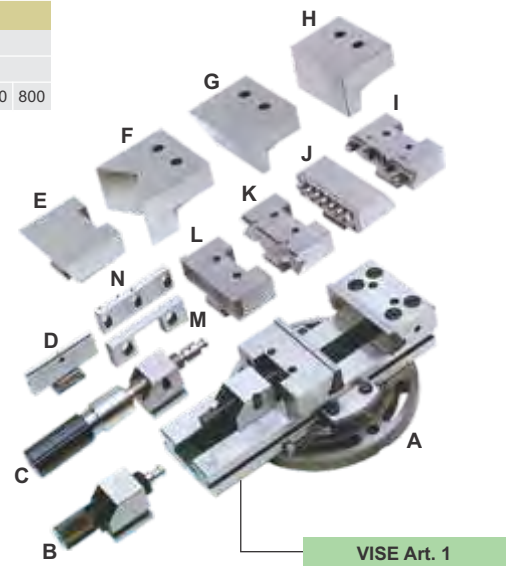
ART. 1	WISE SIZE																			
	1	2	3	4			5			6										
JAW WIDTH	100	125	150	175			200			300										
JAW DEPTH	30	40	50	60			65			80										
MAX. JAW OPENING	100	150	200	300	200	300	400	500	200	300	400	500	600	200	300	400	500	600	700	800

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**



**WISE Art. 1**

**HYDRAULIC CLAMPING OPTION**

**Art. 257**

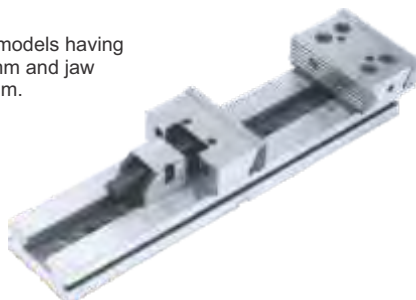


The hand hydraulic clamping group Art. 257 is an optional manual power multiplier alternative to the mechanical clamping of above vices. This device allows to reach the same clamping power reachable with the mechanical screw through a minimum effort. The hand hydraulic screw of Art. 257 is manually operated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

**MODULAR VISES "XL" SERIES**

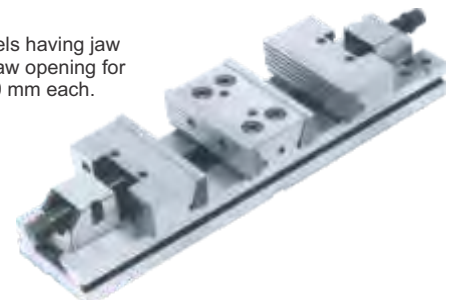
**Art. 20**

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

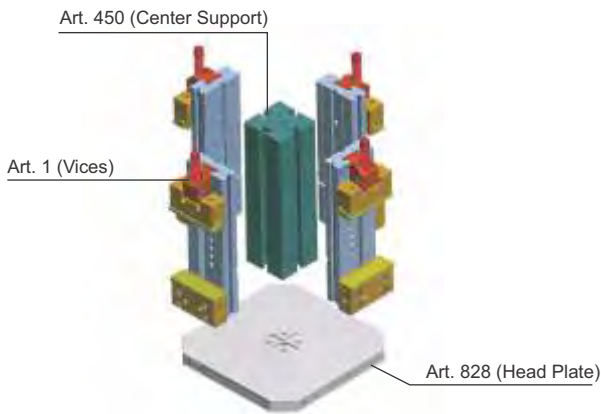


**Art. 30**

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

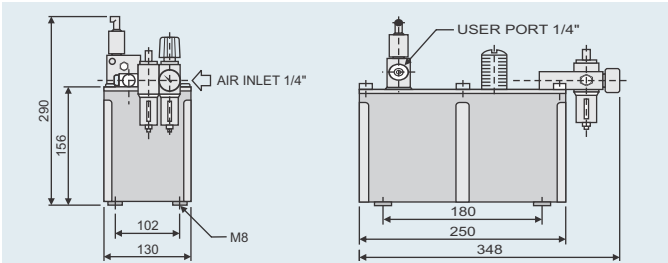


**Art. 103**  
Fixed section

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**

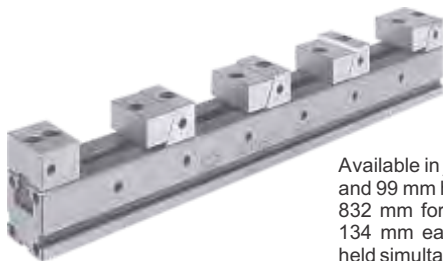
Above power unit can be used to operate Mechanical Modular Vices by Air-Hydraulic power by replacing the mechanical screw by Pneumatic-Hydraulic Blocking device as shown here to convert the mechanical modular vice into quick action air hydraulic vice for production setups. Six vices can be operated simultaneously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



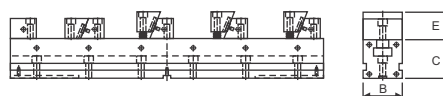
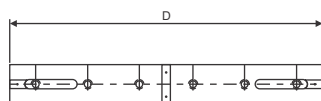
**CONVERT MECHANICAL VICE INTO QUICK ACTING AIR HYDRAULIC VICE**

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

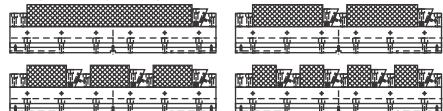
**"MULTIFLEX" VICES ART. 600**



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.



TYPICAL ARRANGEMENTS

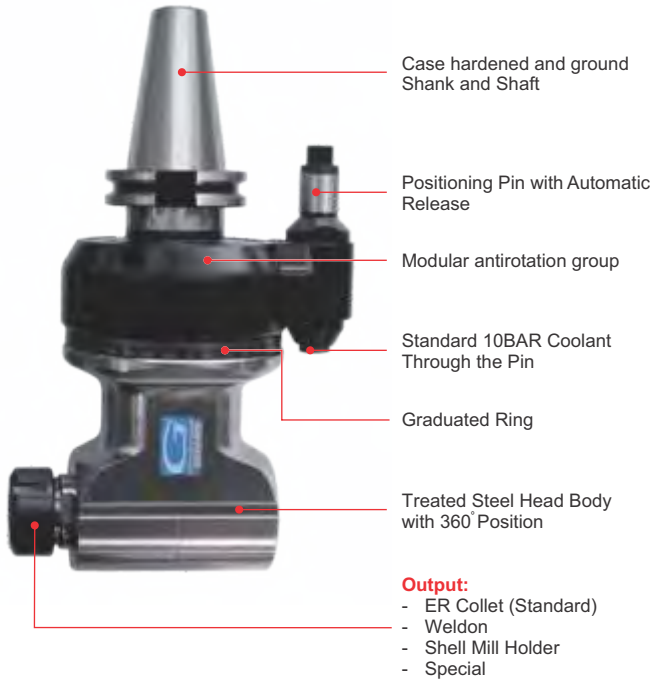



The "MULTIFLEX" series vices are a total new concept of modular clamping system able to maximize the machine table capacity and increase its productivity. The comb system even between the fixed and movable jaw, increases and improves the clamping capacity. Each vice is supplied with 1 fixed jaw and 4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

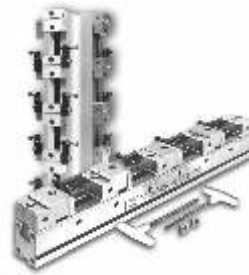


 <p><b>Bearings</b> Angular contact preloaded ball bearings of precision class ABEC7/9</p>	 <p><b>Gears</b> Gleason ground spiral bevel gears maximum performances and minimum vibration</p>	 <p><b>Stop Block</b> With case hardened bushing and gasket</p>
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**SPINDLE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



**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.

Tombstone for Horizontal Machining Center with Zero point or Grid type



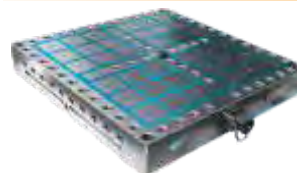
Gerardi Driven tools

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

Manual self-centering scroll chucks



Platform



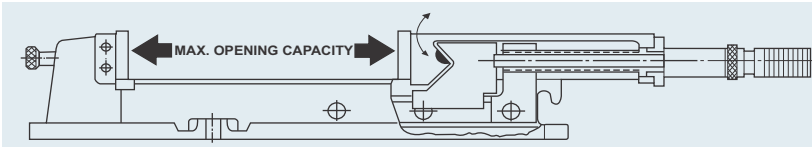
Grid magnetic plates for milling

## 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

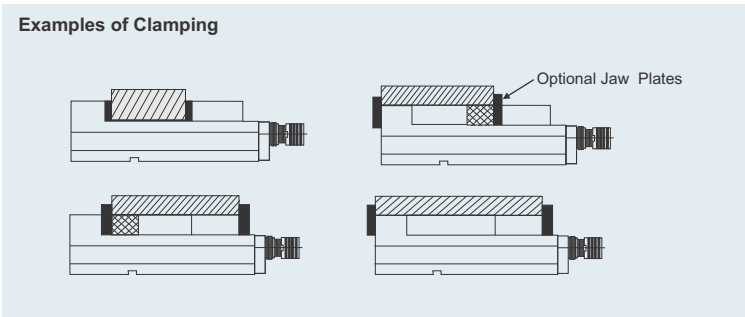


← 2 KGS of power in this direction  
Produce 1 KG of downward.  
Down thrust "semi-sphere segment"  
Mechanism-eliminates jaw lift and work-piece tilt.

## 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



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



**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



**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



**UNIVERSAL DIVIDING HEAD-Model GIN-BS-2**

Model GIN-BS-2 dividing head comes with complete set of gears and dividing plates. Centre height is 132mm and ratio of worm to gear is 1:40.



**HORIZONTAL AND VERTICAL ROTARY TABLE**

Available in different sizes from 150 Ø to 400 Ø. Can be mounted horizontally as well as vertically.

MODEL	TABLE DIAMETER
GIN-HV150	150
GIN-HV200	200
GIN-HV250	250
GIN-HV300	300
GIN-HV350	350
GIN-HV400	400



**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.

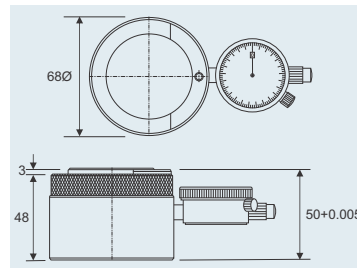


**Z-AXIS ZERO SETTER - Model Z-50**

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





## 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 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 200mm can be achieved by optional cross hole boring tool with HSS Boring bit (GIN Model 5958-902063) 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*	90 mm	18 mm	75	0.01 mm

\* Larger boring dia upto 250mm can be achieved by optional cross hole boring tool with indexable insert (GIN Model 5952-BH18-36) available separately.



## PRECISION BORING TOOLS - WITH INDEXABLE CARBIDE INSERTS

Boring tools available in shank dia 12mm and shank dia 18mm for BHC2 and BHC3 boring heads respectively. 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 are also available.



### MODEL GIN-BH2084 (SET) WITH EIGHT NOS. INDEXABLE INSERTS TYPE BORING BARS.

Complete with boring tools available with different interchangeable shanks such as R8, NT30, NT40, NT50, 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	280 mm	110 mm	20 mm	84 mm	0.005 mm



## 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.

MODEL	OUTER DIA.	BORING BAR HOLE SIZE	OFFSET	LEAST COUNT
GIN-BHW02-50CK6	63.5	16	4.5	0.001



## UNIVERSAL BORING AND FACING MASTER HEAD

### 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 80 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-120	120	50	110

**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**

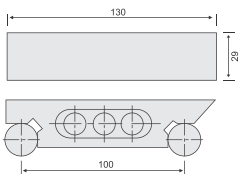
Nonmagnetic GT1, GT2 can be magnetic after being induced on any magnetic chuck.

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



**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



**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.

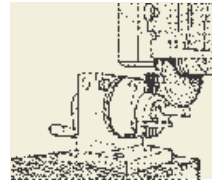


Radius Dressing Attachment is a standard accessory of GIN - PFB which can be held on the V-Block of the Punch Former for radius dressing of grinding wheel upto 200ø



Front view

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

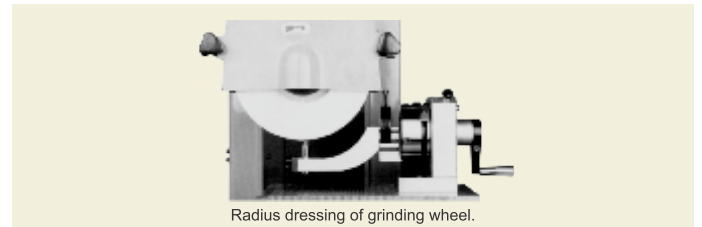


Punch Forming on surface grinding machine



Rear view

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



Radius dressing of grinding wheel.

**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.

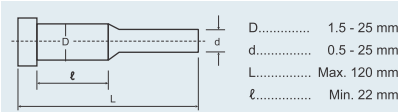
**COMPOUND SINE PLATE WITH MAGNETIC CHUCK**

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

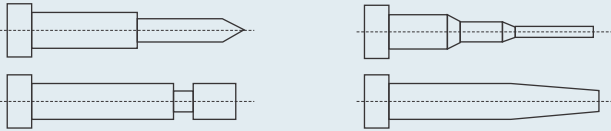


**PUNCH GRINDER - Model GIN-PGA**

'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**

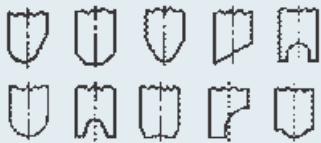
'GIN' Motor Punch grinder is a motorized version of Punch Grinder Model GIN-PGA which eliminates manual handle rotation. It is a single hand portable machine which can be easily kept on grinding machine. With rollers being motor driven, operator can concentrate on machine feeds. Can be used with sine 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



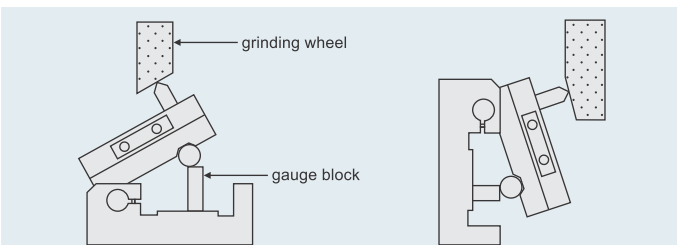
Model GIN RDB for wheel dia up to 8"  
 Model GIN RDC for wheel dia up to 11"

**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.

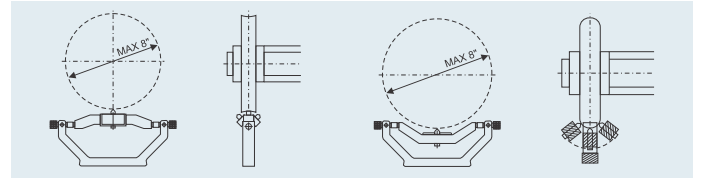


MODEL	OVERALL LENGTH
GIN-AP50	87



**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.

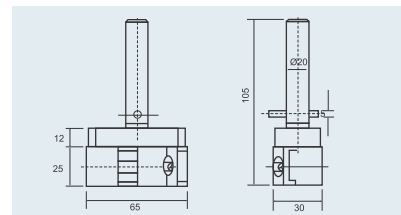
Model	Max width of wheel	Max dressing depth	Min dressing width	Dial Graduation
GIN-DF60	40 mm	40 mm	0.2 mm	0.02 mm / Div.



**ELECTRODE HOLDER (STAINLESS STEEL)**

Model GIN-VH20 is used for holding electrodes on EDM.

MATERIAL	PARALLELISM	SQUARENESS	HARDNESS
SUS440	Within 0.003 mm / 100 mm	Within 0.005 mm / 100 mm	HRC 54 - 58



**PRECISION VISES FOR WIRE CUT MACHINE**

PARALLELISM	SQUARENESS
Within ± 0.002 mm	Within ± 0.002 mm

JAW OPENING	WIDTH	JAW HEIGHT	MATERIAL	HARDNESS
50 mm	28 mm	25 mm	Stainless Steel	HRC 50 - 55

Model GIN-WPV50



PARALLELISM	SQUARENESS
Within ± 0.002 mm	Within ± 0.002 mm

JAW OPENING	WIDTH	JAW HEIGHT	MATERIAL	HARDNESS
100 mm	22 mm	45 mm	Stainless Steel	HRC 50 - 55

Model GIN-WPV100



PARALLELISM	SQUARENESS
Within ± 0.002 mm	Within ± 0.002 mm

JAW OPENING	WIDTH	JAW HEIGHT	MATERIAL	HARDNESS
150 mm	22 mm	50 mm	Stainless Steel	HRC 50 - 55

Model GIN-WPV150



PARALLELISM	SQUARENESS
Within ± 0.003 mm	Within ± 0.005 mm

JAW OPENING	WIDTH	JAW HEIGHT	MATERIAL	HARDNESS
160 mm	25 mm	60 mm	Stainless Steel	HRC 50 - 55

Model GIN-WPV320  
 With level & parallel adjustment feature





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





WIRE EDM CLAMP



CLAMP KIT FOR WIREEDM



ADJUSTABLE FIXTURES AND VISES FOR WIREEDM



S.S. PRECISION VISE FOR WIREEDM



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



## 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
ER20	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
ER25	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
ER32	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
ER40	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
ER16 - Open Ended Spanner Type
ER20 - Open Ended Spanner Type

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 70	BT40 - ER32 x 70
BT30 - ER20 x 70	BT40 - ER32 x 100
BT30 - ER25 x 70	BT40 - ER40 x 80
BT30 - ER32 x 70	BT50 - ER16 x 70
BT30 - ER40 x 80	BT50 - ER20 x 70
BT40 - ER16 x 70	BT50 - ER25 x 70
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 50	BT40 - SLA 32 dia x 100
BT40 - SLA 10 dia x 63	BT40 - SLA 40 dia x 120
BT40 - SLA 12 dia x 63	BT50 - SLA 20 dia x 80
BT40 - SLA 16 dia x 63	BT50 - SLA 25 dia x 100
BT40 - SLA 20 dia x 70	BT50 - SLA 32 dia x 100
BT40 - SLA 25 dia x 90	BT50 - SLA 40 dia x 120



## 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 100	BT50 - 27 dia x 105
BT40 - 27 dia x 60	BT50 - 32 dia x 60
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.



## SEMI - UNIVERSAL INDEX CENTER (DIVIDING HEAD)

'SOGO' 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)

'SOGO' 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

## 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	190	425
SLV-8	200	50	190	500

All above models available with or without swivel base.

## 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



## 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



## 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



## 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



## FOR TOOL / DIE MAKING AND PRODUCTION



**2 $\mu$ m 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



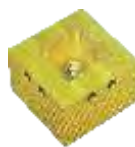
AE-88EW  
CHUCK FOR EDM & MILLING



AM-138EPC  
CHUCK FOR MILLING

## ELECTRODE / WORKPIECE HOLDERS AND WIRECUT EDM ACCESSORIES

### ELECTRODE / WORKPIECE HOLDERS



### DRAWBARS



STAINLESS  
STEEL

ELECTRODE  
ADJUSTING  
HEAD

### WIRECUT EDM WORKHOLDERS



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