



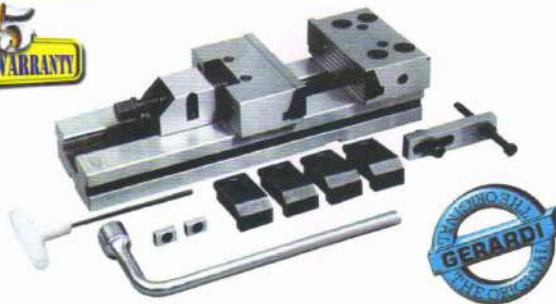
Made in Italy

1

WORLD RENOWNED MODULAR VISES

SOLD & SERVICED IN INDIA BY ABBOTT TOOLFAST PVT. LTD.

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



VISE WITH STANDARD ACCESSORIES

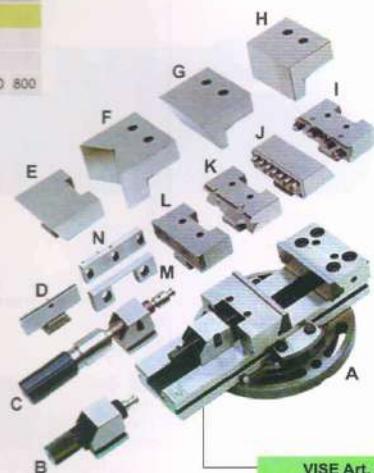
ART. 1	VISE SIZE					
	1	2	3	4	5	6
JAW WIDTH	100	125	150	175	200	300
JAW DEPTH	30	40	50	60	65	80
MAX. JAW OPENING	100	150	200	300	400	500
	200	300	400	500	600	700
	300	400	500	600	600	800

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

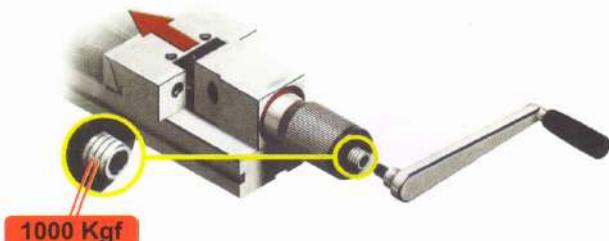
Optional Accessories



VISE Art. 1

HYDRAULIC CLAMPING OPTION

Art. 257

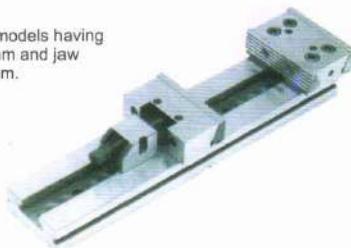


The hand hydraulic clamping group Art. 257 is an optional manual power multiplier alternative to the mechanical clamping of above vices. This device allows to reach the same clamping power reachable with the mechanical screw through a minimum effort. The hand hydraulic screw of Art. 257 is manually operated 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.

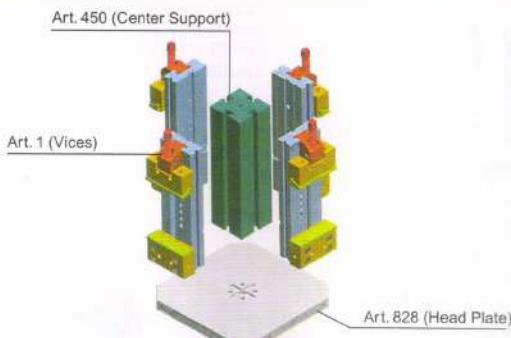




SOLD & SERVICED IN INDIA BY ABBOTT TOOLFAST PVT. LTD.

WORLD RENOWNED MODULAR VISES

STANDARD VICE TOWERS ART. 750 for Horizontal Machining Center



MODULAR ELEMENTS



Art. 102
Movable section



Art. 104
Double fixed section

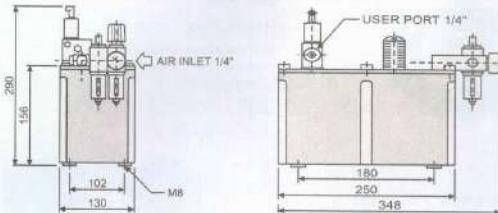


Art. 103
Fixed section

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

HYDROSTATIC 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.

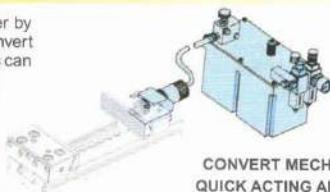


Art. 393 - Power unit with Manual control, Art. 394 - Power unit with Pneumatic control, Art. 395 - Power unit with Electrical control

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).

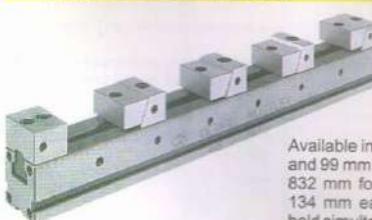
PNEUMO - HYDRAULIC BLOCKING DEVICE

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.

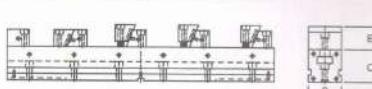
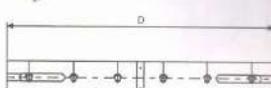


CONVERT MECHANICAL VICE INTO
QUICK ACTING AIR HYDRAULIC VICE

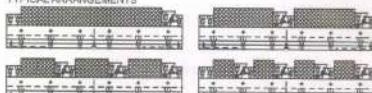
"MULTIFLEX" VICES ART. 600



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 workspots.

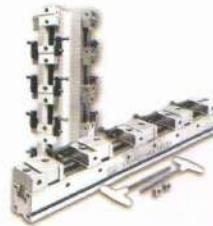
SIZE	D	B	C	E	Max opening according to pieces to be clamped								
					1	2	3	4	5	6	7	8	9
1	300	50	50	32/25	208	75	30	8	1	1	1	1	1
	400	50	50	32/25	308	125	64	33	15	3	1	1	1
	500	50	50	32/25	408	175	96	58	35	19	8	1	1
	600	50	50	32/25	508	225	129	83	55	36	22	12	5
	700	50	50	32/25	608	275	161	108	75	52	36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



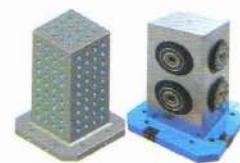
The most versatile
MULTIFLEX Vises and Vise Towers for
multi-clamping



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.



Tombstone for Horizontal
Machining Center with Zero point or
Grid type



Gerardi Driven tools

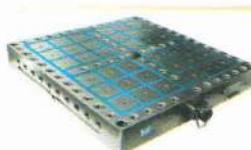
- Mazak
- Biglia
- Daewoo
- Mori seiki
- Nakamura
- HAAS
- Okuma
- Takisawa
- VDI

SPINDLE SPEEDERS



Manual self-centering
scroll chucks

BISON



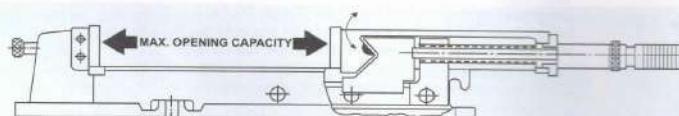
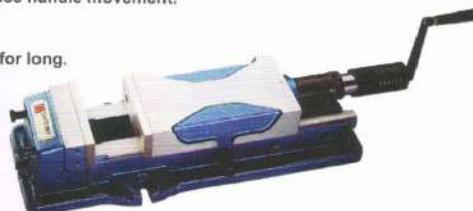
Grid magnetic plates
for milling

LOCK DOWN JAW HYDRAULIC MACHINE VICE

'SAFETY' 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

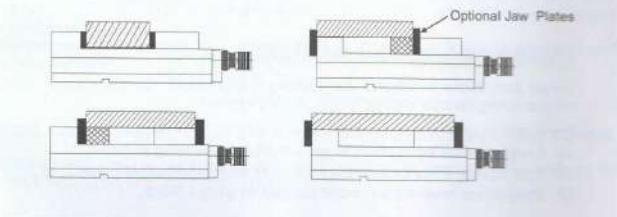


2 KGS of power in this direction
Produce 1 KG of downward.
Down thrust "semi-sphere segment"
Mechanism-eliminates jaw lift and work-piece tilt.

MC COMPACT HYDRAULIC VICE

This vise 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 vise 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

'SAFETY' 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



Ask us for detail catalogue of **SAFETY** products



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.



TSEP10 TSEP 1020 TSEP 1020B

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.


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 ± 0.01 mm

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 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 50Ø. 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.

GRINDING ACCESSORIES

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	60	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

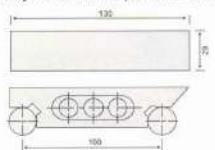
Nonmagnetic GT1, GT2 can be magnetic after being inducted on any magnetic chuck.

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



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
SP67M	175 x 100	87
SP68M	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.

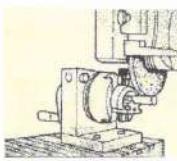


Shapes of punches formed by holding a punch on GIN - PFB and by Grinding on surface grinder.



Front view

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 slided vertically to bring the punch at concentric position



Rear view

Punch Forming on surface grinding machine

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

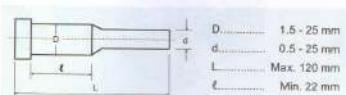
MODEL	MAGNETIC TOP SIZE	OVERALL HEIGHT IN CLOSED POSITION
CSP 47M	175 x 100	122
CSP 68M	150 x 150	122
CSP 510M	250 x 125	122
CSP 612M	300 x 150	122



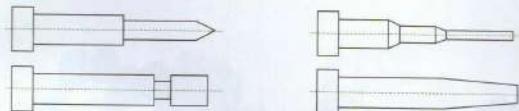
GRINDING AND EDM ACCESSORIES

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.

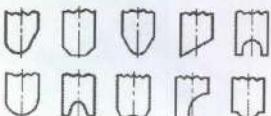

MOTOR PUNCH GRINDER - Model GIN-PGAM

'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

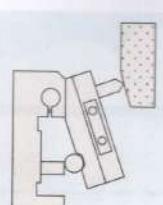
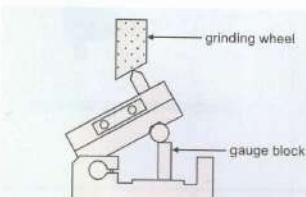


Model GIN RDB for wheel dia up to 8"
Model GIN RDC for wheel dia up to 11"

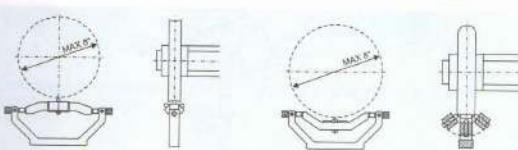
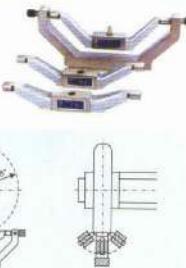
ANGLE SINE DRESSER

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

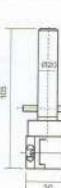
Precision Duplex Dresser is designed to simultaneously dress both sides of a grinding wheel, precisely and without deformation.

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

Model GIN-WPV50



JAW OPENING	WIDTH	JAW HEIGHT	MATERIAL	HARDNESS
50 mm	28 mm	25 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
100 mm	22 mm	45 mm	Stainless Steel	HRC 50 - 55

Model GIN-WPV150



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-WPV320



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

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
ER16 - Open Ended Spanner Type
ER20 - Open Ended Spanner Type
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.

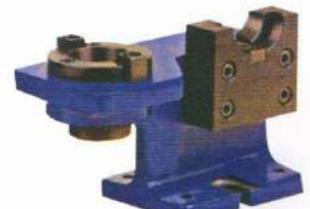
Sizes	Sizes
BT40 - 22 dia x 60	BT40 - 32 dia x 60
BT40 - 22 dia x 100	BT50 - 27 dia x 105
BT40 - 27 dia x 60	BT50 - 32 dia x 60
BT40 - 27 dia x 105	



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)

'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.

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.



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	32	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
SPML-1000	1000 kgs
SPML-2000	2000 kgs
SPML-3000	3000 kgs

