

## 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

