

East Coast Enterprisers Ltd. is a flagship company of Sarda Group established in 1958 specializing in designing and manufacturing of SARDA brand magnetic work-holding, clamping, separation and lifting systems and other magnetic equipments. With advanced design, outstanding performance and unsurpassed reliability, our products can be compared with most western countries' products both in competitive prices & reliable quality.

Though we are a 50 year old company, we operate like entrepreneurs. We focus on continuously upgrading ourselves with new innovations in products and technology in order to stay ahead of our customer's changing needs.

East Coast Enterprisers Ltd developed for the first time in India the latest Electro Permanent Magnetic Chucks and lifters way back in 1990 and the Battery Operated EPM Lifting Magnets were the first of its kind in world. In 2006, we have applied PATENT for a revolutionary magnetic bed MAGNASLOT, a magnetic bed with T slots giving customers a work holding solution for all kinds of jobs.

The company has been receiving prestigious awards from the Engineering Export Promotion Council, Eastern Region, Kolkata since 1996 and has received the Best Exporters Shield for outstanding export performance.



It is the goal of the Company to be the leader in magnetic advancement and maintain the highest level of customer satisfaction. We are persistently striving to offer our customers superior quality and highly professional service as well as technical support.

Goals and Vision

In-house research plus innovative design has led to development of magnetic equipments using the latest technology available. Trained team of technicians and sales personnel are able to provide invaluable technical advice on magnet use and applications, as well as guiding customers on the best magnet material and construction for the devices they require.

It is the vision of the Company that by the year end of 2015 it becomes the leading manufacturers of industrial magnets with highest market share in Asia for its product.







Standard Pole Rectangular Magnetic Chuck

Features

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- Perfect general purpose chuck having steel and aluminium set top plate.
- Meets IS:04816:87 specification.
- Poles are individually magnetised for full loading power.
- Detachable handle for easy use.

Applications

- Powerful and most suitable for grinding of medium and large components.
- · Suitable for light milling and drilling operations.
- · Supplied as OE in most surface grinding machines.

All dimensions are in mm.

Art No.		Plate	Pole Pitch	н	
	W	L			
11101.01	125	250	-		
11101.02		250	-		
11101.03		300	-	63	
11101.04	150	350	_	00	
11101.05		400			
11101.06		450			
11101.07		300			1100000000
11101.08		350			
11101.09	200	400		CF	
11101.10	200	450			
11101.11		500			2.5
11101.12		65 600 30	15		
11101.13		450	(2.5+15+2.5+10)		10
11101.14	250	600			
11101.15	250	750			
11101.16		1000*			
11101.17		450			
11101.18		600		68	M
11101.19	300	750			
11101.20		900*		70	[b
11101.21		1000*		70	

• Due to continuous upgradation in design there could be changes in specifications.

 \bullet Larger(*) size chucks are made with two operating handles





Universal Pole Rectangular Magnetic Chuck

Features

- Steel and brass laminated top plate.
- Accurate and stable working face.
- Fully extended pole with minimum loss of working area.
- Made with high power permanent magnets.
- Handle pivots 180°.

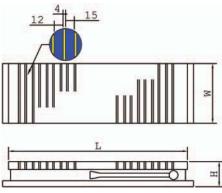


All dimensions are in mm.

Art No.	Тор	Plate	Pole Pitch	н	Application
Art No.	W	L	FOICFILCH		 Ideal for grin
11102.01	115	180		60	jobs. • Powerful and
11102.02	110	215		00	medium and
11102.03		260			for grinding,
11102.04	135	280		63	shaping oper Useful for gri
11102.05		315			with laminate
11102.06		280			
11102.07		315			
11102.08		360			
11102.09	155	415			
11102.10		460			
11102.11		500			
11102.12		610			
11102.13		280	31	65	
11102.14		315	(15+4+12)		
11102.15		360			
11102.16		415			
11102.17	200	460			4
11102.18		500			12 15
11102.19		610			
11102.20		800			
11102.21		1000*			
11102.22		500			
11102.23	250	610			
11102.24		750		68	
11102.25		500			- L
11102.26	300	600			
11102.27		800			

Applications

- Ideal for grinding of hardened jobs.
- Powerful and most suitable for medium and large components for grinding, light milling and shaping operations.
- Useful for grinding and drilling with laminated transfer blocks.



• Larger(*) size chucks are made with two operating handles.

• Due to continuous upgradation in design there could be changes in specifications.



Features Δŀ - | [Steel and brass . laminated top plate. **ART NO. 11103** Poles individually Fine Pole Rectangular Magnetic Chuck magnetized. Double magnet system for maximum power. Use of ferrite magnets ensures that the magnetic force will always remain. Low magnetic field no magnetization of tools. Smooth and simple actuating mechanism. Rugged construction - exceptional longevity.

Applications

- · Ideal for tool room applications.
- · Provides powerful holding for thin and thick work pieces.
- · Suitable for grinding and light to medium milling operations.
- Adaptable to wide range of work pieces.

Art No.	Тор	Top Plate Pole Pitch		н
Art No.	W	L	FOICFILCH	
11103.01	445	180		
11103.02	115	215		
11103.03		260		70
11103.04	135	280		
11103.05		315		
11103.06		280		
11103.07		315		73
11103.08		360	10 (5+1.5+2+1.5)	
11103.09	155	415		
11103.10		460		
11103.11		500		
11103.12		610		
11103.13		280		
11103.14		315		
11103.15		360		
11103.16		415		75
11103.17	200	460		
11103.18		500		
11103.19		610		
11103.20		800*		80
11103.21		1000*		00

All dimensions are in mm.

Larger(*) size chucks are made with two operating handles

• Due to continuous upgradation in design there could be changes in specifications.

• Other sizes on request.

10 10 10



MICROFINE ART NO. 11104

Microfine Pole Rectangular Magnetic Chuck

Applications

- Most suitable for EDM, Wire Cut and similar applications.
- Enables grinding of thin and small work pieces that hitherto presented problems in holding.

Features

- Steel and brass laminated top plate.
- Extremely low height for better job accommodation.
- Made with super powerful NdFeB new generation magnets.
- Variable power can be obtained by varying rotation of handle.
- Unique design of the chuck eliminates the movement of top plate when switched On/Off resulting in better job accuracy.
- Stable magnet grid movement provides high precision in grinding.

All dimensions are in mm.

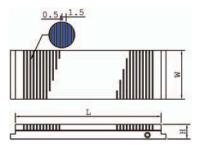
Oil-proof type

• Chuck with height 32 mm can also be made with On/Off mechanism from top and its ordering code is 11109

Art No.	Тор	Plate	Pole Pitch	н
Art No.	W	L	FOIE FILCH	
11104.01	100	150		
11104.02	115	185		
11104.03	125	250		
11104.04		300		
11104.05	150	350	2	45
11104.06		400		
11104.07		450		
11104.08		300		
11104.09		400		
11104.10	200	450	(1.5+0.5)	
11104.11		500		
11104.12		600		
11104.13		450		
11104.14	250	500		
11104.15		600		
11104.16		450		
11104.17	300	500		
11104.18		600		

• Due to continuous upgradation in design there could be changes in specifications.









Powerful Rectangular Magnetic Chuck

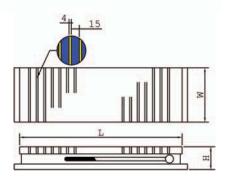
- Features

- · Made with super powerful NdFeB magnets.
- · Steel and brass laminated top plate
- · Rigid construction.
- Accurate and stable working face.
- Incorporates universal pole pitch to accommodate variety of work pieces.

Applications-

- · Ideal for milling applications.
- Through drilling with laminated blocks is also possible.





All dimensions are in mm.

Art No.	Top F	Plate	Pole Pitch	н
Art No.	W	L	FOIE FILCH	
11105.01	100	150		70
11105.02	115	185		
11105.03	125	250		
11105.04		300	34	
11105.05	150	350		75
11105.06		400	(15+4+15)	
11105.07		450		
11105.08		300		
11105.09		400		
11105.10	200	450		78
11105.11		500		70
11105.12		600		

• Due to continuous upgradation in design there could be changes in specifications.

Larger size chucks are made with two operating handles.



- Approximately 3 times more powerful than any other permanent magnetic chuck.
- Minimizes clamping time, ensures better
- dimensional accuracy and surface finish. Increases tool life.
- Increases tool life.
 Made with super p
- Made with super powerful new generation NdFeB magnets.
- Smooth and simple actuating mechanism.
 Rugged construction-exceptional longevity.



Powermill Chuck

NEW PRODUCT

Applications

- · Ideal for heavy duty milling applications.
- Machining of five face milling in one setting is possible.









All dimensions are in mm.

	Art No.	Worki	Working Size		
		W	L	••	
	11106.01	200	430	95	
	11106.02	300	600	95	

Due to continuous upgradation in design there could be changes in specifications.
Other sizes on request.



DAYAN

ART NO. 11201

Standard Pole Round Magnetic Chuck

Features

- Perfect general purpose chuck having steel and aluminium set top plate.
- . Meets IS:04816:87 specification .
- . Parallel pole heavy duty chuck with high holding power. . Concentric grooves in the chuck surface assist in clamping parts concentrically.

Applications

- Powerful and most suitable for grinding of medium and big components.
 - Useful for Rotary grinding machines and lathes.

All dimensions are in mm.

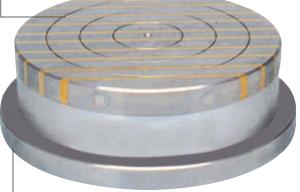
Art No.	D	Pole Pitch	н
11201.01	130		
11201.02	160		
11201.03	200	30 (2.5+15+2.5+10)	63
11201.04	225		
11201.05	250		
11201.06	315		
11201.07	350	(65
11201.08	400		
11201.09	450		68
11201.10	500		00
11201.11	600		70

Features

- Steel and brass laminated top plate.
- Fully extended poles minimum loss of working area.
- Made with high power permanent magnets.
- . Detachable handle for easy use.



PERMAN



Applications

Most suitable for medium and big components for grinding and light turning operations.

• Back plate with tapped hole can be made on request.

• Due to continuous upgradation in design there could be changes in specifications.

· Other sizes on request.

ART NO. 11202 Universal Pole Round Magnetic Chuck

All dimensions are in mm.

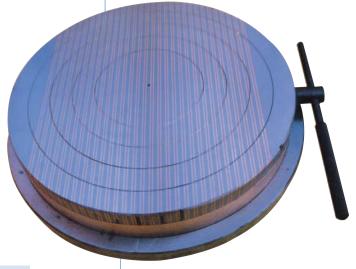
Art No.		Pole Pitch	
	D		Н
11202.01	100		
11202.02	120		
11202.03	150		70
11202.04	180	31 (15+4+12)	-
11202.05	200		
11202.06	250	(10.4.12)	
11202.07	300		
11202.08	350		73
11202.09	400		



- · Steel and brass laminated top plate.
- · Poles individually magnetized.
- Double magnet system for maximum power.
- Magnetic force will not weaken with long use.
- Low magnetic field no magnetization of tools.
- · Simple and smooth actuating mechanism.
- Rugged construction exceptional longevity.



Fine Pole Round Magnetic Chuck

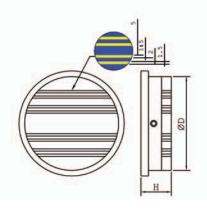


• Back plate with tapped hole can be made on request.

All dimensions are in mm.

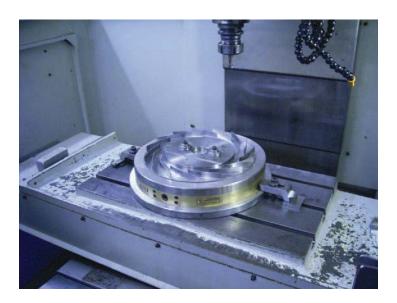
Art No.	D	Pole Pitch	Н
11203.01	200	10 (5+1.5+2+1.5)	78
11203.02	250		80
11203.03	300		00
11203.04	350		
11203.05	400		83
11203.06	450		

- Due to continuous upgradation in design there could be changes in specifications.
- Other sizes on request.



Applications

- · Adaptable to wide range of work pieces.
- · Ideal for many tool room applications.
- Provides powerful holding power for thinner work pieces as well as for thicker work pieces.
- · Powerful and most suitable for grinding and turning operations.
- Milling of thin jobs can also be done.







Radial Pole Round Magnetic Chuck

Applications

- · Ideal for discs and ring shaped components.
- Powerful and suitable for components of all sizes for grinding, light turning and Cylindrical Grinders.
- Made with centre through holes for internal grinding and boring operations.



Features

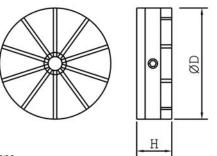
- Homogeneous magnetic field throughout the top plate.
- The power is adjustable from 0% to 100% by positioning the handle.
- Top plate is machinable upto 8 mm.
- · Detachable handle for easy use.
- Can be made with slots to accommodate radially adjustable pole shoes.
- Auxiliary top plates (adapter plates) available for fixturing.

All dimensions are in mm.

Art No.	D	No. Of Poles	Н
11206.01	100	6	
11206.02	130	8	
11206.03	160	10	
11206.04	200	14	54
11206.05	225		
11206.06	250		
11206.07	300		
11206.08	350	18	
11206.09	400		
11206.10	450	20	60
11206.11	500		
11206.12	600	30	



Typical Turning Operation



• Due to continuous upgradation in design there could be changes in specifications.



MICROFINE ART NO. 11204

Microfine Round Magnetic Chuck

Features

- Steel and brass laminated top plate.
- · Fully extended poles minimum loss of working area.
- · Detachable handle for easy use.
- Extremely low profile for more wheel area.
- Made with super powerful NdFeB new generation magnets.
- · Variable power can be obtained by varying rotation of handle.
- Unique design of the chuck minimizes the deflection of top plate when switched On/Off, resulting in better job accuracy.

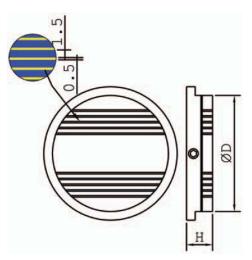


- Attached to rotary grinders for operation.
- Back plate with tapped hole can be made on request.

All dimensions are in mm.

Art No.	D	Pole Pitch	н
11204.01	100		
11204.02	130		
11204.03	160	·	
11204.04	200		45
11204.05	250	2	
11204.06	300	(1.5+0.5)	
11204.07	350	•	
11204.08	400		
11204.09	450		48
11204.10	500		

• Due to continuous upgradation in design there could be changes in specifications.



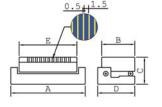
- Large effective area is provided for machining the work pieces.
- . Positive locking at all angles without any distortion.
- . Constructed of hardened alloy tool steel.
- . Angle precision 0.007/ 100mm.
- . Low height for more wheel clearance.

ART NO. 11107

Single Angle Sine Table

Applications

Flat type for wide range of uses. Ideal for high accuracy grinding operations.



Art No.	Α	В	С	D	Е	Pole Pitch	Angle
11107.01	225	100	82	75	175		
11107.02	200	150	82	100	150	2	0°-60°
11107.03	350	150	87	100	300	(1.5+0.5)	0-00
11107.04	500	150	88	100	450		
11107.08	660	300	100	150	600		

AR 11108 NO

• Sine table with other style of chuck is also made.



Features

- Positive locking at all angles without any distortion.
- Large effective area is provided for machining the work pieces.
- Constructed of hardened alloy tool steel.

540.5

- Double way sine plate; can grind two
 - way angle at the same time.
 - Angle precision 0.007/100mm.

Applications

Elat type for wide range of uses

Flat type for wide range of uses				a Iting in lengt	h,					G A
	L			D	E	F	G	Pole Pitch	Angle	
	u —			100	175	75	150			
				150	150	100	100	2	0°-60°	
11108.03	355	200	125	150	300	100	250	(1.5+0.5)	0 -00	
11108.04	505	200	125	150	450	100	350			

• Due to continuous upgradation in design there could be changes in specifications.





- · Has steel and aluminium set top plate.
- Has high mechanical rigidity and proven robustness.
- Guaranteed water proof.
 Eull extended pole for ma
 - Full extended pole for maximum effective clamping area.
 - Multicoil design for maximum power.
 - Top plate is machinable upto 6 mm.

Applications

Cross pole series

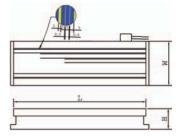
 They are powerful and most suitable for medium and big components, for grinding, planing, milling and various other operations.

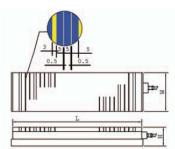
Knife grinding holding from sides.

Long pole Series

- These chucks are best suited for long work pieces and are used in additional applications such as buff and belt grinding of large quantities of work pieces which are difficult to hold on cross pole magnetic chucks.
- Most suitable for holding hardened and small components positioned between alternate poles.

Art No.	Тор	Plate	Pole Pitch	н	Controller
Art No.	W	L	FOIEFILCH		Controller
12101.01	150	300			
12101.02	100	450			
12101.03	200	500			
12101.04	200	600			
12101.05		600			92101.01
12101.06	250	750			02101.01
12101.07	250	1000			
12101.08		1500			
12101.09		600		75	
12101.10		750			
12101.11	300	900	19 (5+0.5+5+0.5+5+3)		
12101.12		1000			
12101.13		1200			
12101.14		1500			
12101.15		600			
12101.16	400	900			
12101.17	400	1000			92101.02
12101.18		1200			
12101.19		750			
12101.20	500	1000			
12101.21	500	1500		78	
12101.22		2000		,0	
12101.23	600	750			92101.03
12101.24	600	1000			





- The operating voltage is 110 VDC upto 12101.18, beyond that 220 VDC.
- Can be designed for other operating voltages.
- Long pole chucks are also made and its ordering series for the same is 12102.
- Chuck with Brass separation is available at extra cost.

• Due to continuous upgradation in design there could be changes in specifications.



- · All metal, brass and steel laminated top plate.
- High resistance to coolant and corrosion.
- · High mechanical rigidity and proven robustness.
- · Guaranteed water proof.
- These chucks have a multi energized magnetic circuit, consisting of a number of adjacent, reversed coils making up a magnetizing core which has a small pole pitch.
- The multitude of exciting windings increases dissipation of electrical energy which becomes magnetic energy, while limiting both temperature rise caused by Joule effect and distortion of the chuck.
- Top plate is machinable upto 8 mm.

EFINE ART 12103 Fine Pole Rectangular Magnetic Chuck

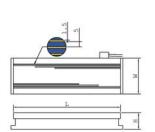
Applications

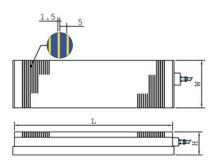
- Cross pole series
- · Suitable for a wide range of work pieces.
- For grinding application of small to big sized components.

Long pole Series

- Since it produces stale attractive force in the lengthwise direction, it is possible to move the work piece along the belt while maintaining the attractive force.
- The plate design makes it easy to design and locate fixtures correctly for effective holding of intricately shaped work pieces.

All dimensions are in mm.





- The operating voltage is 110 VDC upto 12103.18, beyond that 220 VDC.
- Can be designed for other operating voltages.
- Long pole chucks are also made, the ordering series for the same is 12104.

Art No.	Top Pl	ate	Pole Pitch	Н	Controller
AIT NO.	W	L	Fole Filch	п	Controller
12103.01	150	300			
12103.02	150	450			
12103.03	200	500			
12103.04	200	600			
12103.05		600			
12103.06	250	750			
12103.07	200	1000			92101.01
12103.08		1500			
12103.09		600		75	
12103.10	300	750	6.5		
12103.11		900			
12103.12	500	1000			
12103.13		1200			
12103.14		1500	(5+1.5)		
12103.15		600			
12103.16	400	900			
12103.17	400	1000			92101.02
12103.18		1200			
12103.19		750			
12103.20	500	1000			
12103.21	500	1500		78	
12103.22		2000		10	
12103.23	600	750			92101.03
12103.24	000	1000			

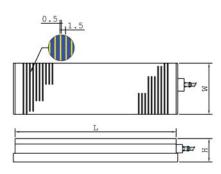
• Due to continuous upgradation in design there could be changes in specifications.





All	dimensions	are	in	mm.
/ \	unnensions	arc		

Art No.	Top P	late	Pole Pitch	Н	Controller
AIT NO.	W	L	FOIE FILCH	п	Controller
12105.01	150	300			
12105.02	150	450			
12105.03	200	500			
12105.04	200	600			
12105.05		600			
12105.06	250	750			
12105.07	200	1000			92101.01
12105.08		1500		75	
12105.09		600	75		
12105.10		750	2 (1.5+0.5)		
12105.11	- 300	900			
12105.12		1000			
12105.13		1200			
12105.14		1500			
12105.15		600			92101.02
12105.16	400	900			
12105.17	400	1000			
12105.18		1200			
12105.19		750			
12105.20	500	1000			
12105.21	500	1500		78	
12105.22		2000		10	
12105.23	600	750			92101.03
12105.24	000	1000			



• The operating voltage is 110 VDC upto 12105.18, beyond that 220 VDC.

• Can be designed for other operating voltages.

• Due to continuous upgradation in design there could be changes in specifications.



- Single piece body construction for high precision.
- 100% leak proof construction.
- · Lowest height electro magnetic chucks.
- Chuck weighs less by 10%-20%, there by increasing the durability of grinder itself.
- Less than 5°C chuck temperature change after 1 hour of working.
- Minimum power consumption.
- · Possibility of combining several chucks for a large installation.
- Due to low height, there is more space between the grinding wheel and the chuck which enables the processing of larger work pieces.

EGRIP ART 12106

Universal Cross Pole Rectangular Magnetic Chuck

Applications

- Ideal for standard components and for precision grinding.
- The low magnetic flux does not interfere with the grinding operation thereby giving higher accuracy.
- Designed to meet the demands of the latest grinding operations which require both heavy duty grinding and high precision.

The operating voltage is 110 VDC.Can be designed for other operating voltages.



3 3 5	5 0.5	
		₽≈≈

All dimensions are in mm.

Art No.	Top F	Plate	Pole Pitch	Н	Controller
/	W	L			
12106.01		600			
12106.02		750			
12106.03	300	900			
12106.04	300	1000			
12106.05		1200		75	
12106.06		1500			
12106.07		600	19 (5+0.5+5+0.5+5+3)		92101.01
12106.17	400	800			
12106.08		900			
12106.09		1000			
12106.10		1200			
12106.11		750			
12106.12	500	1000			
12106.13	500	1500		78	
12106.14		2000			92101.02
12106.15	<u> </u>	750 1000		92101.02	
12106.16	600				

• Due to continuous upgradation in design there could be changes in specifications.



ECONCENTRIC ART 12201

Concentric Pole Round Magnetic Chuck

Features

- · All metal aluminium and steel set top plate.
- Top plate, integral part of the chuck, is made from solid plate with solid steel layer between pole & coils.
- Has high mechanical rigidity and proven robustness.
- · Watertight execution allows abundant application of coolants.
- · Excellent holding power with low energy consumption.
- Can be mounted on machine table by fitting the adaptor plate to the threaded holes in the back side.



Applications

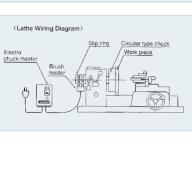
- · Suitable for all types of Rotary surface grinding machines
- · Also for lathe operations of disc shaped components.
- Is particularly efficient for holding relatively thick, medium and large sized work pieces, especially discs.
- · Supplied as OE in most of the Rotary surface grinding machines.
- Carbon Brush Holder with Brass collector slip rings for fitting on the machine spindle for power supply.
- The operating voltage is 110 VDC upto 12201.11, beyond that 220 VDC.
- Can be designed for other operating voltages.
- Brass separated chuck can be made at extra cost.

All dimensions are in mm.

Art No.	D	Pole Pitch	Н	Controller
12201.01	150		85	
12201.02	200		00	
12201.03	300			
12201.04	450	11		
12201.05	500	(8+3)	95	92101.01
12201.06	600	(0+3)		
12201.07	700			
12201.08	800			
12201.09	1000	16		
12201.10	1200	(11+5)	115	92101.02
12201.11	1500	(
12201.12	2000	20	100	92101.03
12201.13	2500	(15+5)	120	92101.04

· Due to continuous upgradation in design there could be changes in specifications.

Other sizes on request.



echanical clampi

Magnetic clamping





- Power from all poles transferred to rings/plates held in centre.
- Brass collector slip rings with carbon brush holder is used to give continuous power supply.
- Can be mounted on machine table by fitting the adaptor plate to the threaded holes in the back side.
- Top plate is machinable upto 8 mm.

All dimensions are in mm.

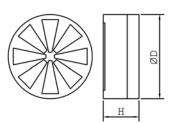
Art No.	D	No. Of Poles	Н	Controller	
12202.01	150	6			
12202.02	300	8	95		
12202.03	500	12		92101.01	
12202.04	600	12			
12202.05	800	16			
12202.06	1000	18	115	92101.02	
12202.07	1500	20	115		
12202.08	2000	24	100	92101.03	
12202.09	2500	30	120	92101.04	

ERADIAL ART 12202

Radial Pole Round Magnetic Chuck

Applications

- Suitable for all types of Rotary surface grinding machines
- Also for lathe operations for disc components.
- Radially movable location blocks will help to position and secure work pieces (bearing rings, thrust bearings, etc.); this is also necessary for clearance of the cutting tool or wheel.



Carbon Brush Holder with Brass collector slip rings for fitting on the machine spindle for power supply.
The operating voltage is 110 VDC upto 12202.11, beyond that 220 VDC.
Can be designed for other operating voltages.



Fine Pole Round Magnetic Chuck

Features

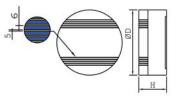
- · All metal brass and steel laminated top plate.
- · High resistance to coolant/corrosion.
- High mechanical rigidity and proven robustness.
- Guaranteed water proof.
- Can be mounted on machine by fitting the adaptor plate to the tapped holes provided in the back side.
- Top plate is machinable.

Carbon Brush Holder with Brass collector slip rings for fitting on the machine spindle for Power supply • The operating voltage is 110 VDC • Can be designed for other operating voltages.
Electro permanent magnetic chucks of this type are available, the ordering code for them is 13302 and controller 93101 series.



Applications

- Suitable for all types of Rotary surface grinding machines.
- Also for lathe operations of disc shaped components.
- Ideal for small & thin components.



All dimensions are in mm.

Art No.	D	Pole Pitch	н	Controller
12203.01	200			
12203.02	300			
12203.03	450	11 (6+5)	90	92101.02
12203.04	500			
12203.05	600			
12203.06	700			

- Due to continuous upgradation in design there could be changes in specifications.
- · Other sizes on request.



CONTROLLER ART NO. 92101

Features

- Rigid basic model
- Simply Converts AC to DC Volts.
- 4/6 Steps magnetisation power control.
- Manual Switch ON by Rotary Switch.
- Spring return manual DEMAG operation.



Applications

- Can be used with any Electro Magnetic Chuck.
- Can operate any Electro Magnet upto 600 Watts

Art. No.	Output Volts (VDC)	Amps (A)
92101.01		2
92101.02	110	4
92101.03		6

ART NO. 92102

Features

- Solid State Controller.
- Power variation done using SCR's.
- Precision Power Control.
- Special DEMAG operation ensuring proper demagnetization of Hardened Steel.
- Comes along with remote pendant unit, which can be mounted anywhere around the machine.



Applications

- Can be used with any Electro Magnetic Chuck.
- Assured easy removed of Job.

Art. No.	Output Volts (VDC)	Amps (A)
92102.01	110	10

ART NO. 93101

Features

- Solid State Controller.
- Magnetic Power divided into eight pre-selected steps.
- MAG/ DEMAG on Panel Mounting.
- Comes along with remote pendant unit, which can be mounted anywhere around the machine.

	 -	

Applications

- Can be used with Electro Permanet Magnetic Chuck.
- PCB Card Module for mounting in side pannal can also be supplied.

Art. No.	Operating Volts (AC; 50Hz)	No. Channel	Amps (A)
93101.01		1	
93101.02	220 / 440	2	50
93101.03		4	

- Due to continuous upgradation in design there could be changes in specifications.
- Other sizes on request.



EPSQUARE75

ART 13109

75mm Square Pole Rectangular Magnetic Chuck

Applications

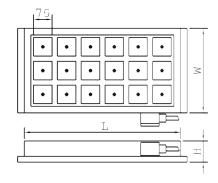
All dimonsions are in mm

- Most suitable for heavy duty milling operations on medium, large sized and even rough components.
- · A minimum of 4 alternate poles contact is necessary for optimum clamping.
- · Minimum thickness of job 20 mm.
- · Easily integrated with Pallet changing and FMS Systems.
- AUTOMATIC SHIMMING: Sliding pole extensions allow clamping and uniformly support work pieces even with bent surfaces, achieving high accuracies of planarity.

Art No.	W	L	No. Of Poles	Н	Controller			
13109.01		400	8					
13109.02	250	600	12					
13109.03	250	800	16					
13109.04		1000	20					
13109.05		400	12					
13109.06		600	18					
13109.07	300	800	24					
13109.08		1000	30	30				
13109.09	400	400	16		93101.01			
13109.10		600	24	68				
13109.11		800	32	00				
13109.12		1000	40					
13109.13		400	20					
13109.14	500	600	30					
13109.15	000	800	40					
13109.16		1000	50		93101.02			
13109.17		600	36		93101.01			
13109.18	600	800	48		93101.02			
13109.19		1000	60		93101.02			

Features
 High and uniform magnetic power.

- Perfect safety in case of power failure. No electricity needed to keep the Magnetic chuck ON.
- Unobstructed movement of cutters during machining.
- · Drastically reduces set up time.
- Helps in achieving best machining accuracy.
- Uniform clamping over entire area, no chattering of tools, improves finish and tool life.

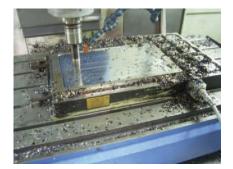






• Due to continuous upgradation in design there could be changes in specifications.







Electro Permanent Magnetic Chucks



ART 13108

50mm Square Pole Rectangular Magnetic Chuck

Features

- High and uniform magnetic power.
- · Perfect safety in case of power failure.
- · Modular and sturdy construction.
- · Variable magnetic power.
- Easily integrated with pallet changing and FMS systems.
 Uniform elements of the ish
- Uniform clamping of the job.
 Unobstructed movement of cutters during machining as all five faces
- of the job can be machined in the same setting.
- Drastically reduces the setup time and machining of the work pieces.
- Better machining accuracy as the chattering of tools reduces, the finish and tool life is improved.









Applications

- Most suitable for heavy duty milling operations on small and medium sized components.
- A minimum of 8 alternate poles contact is necessary for optimum clamping.
- Minimum thickness of job to be above 10 mm.

WORKPIECE

Spring blocks in clamped position taking the bent shape of the job

All dimensions are in mm.

WORKPIECE

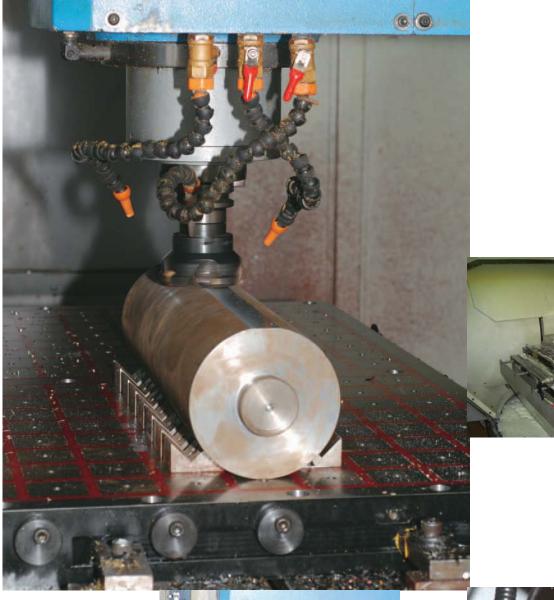
Spring blocks in expanded position

Art No.	W	L	No. Of Poles	Н	Controller
13108.01		400	18		
13108.02		600	24		
13108.03	250	800	30		
13108.04		900	36		
13108.05		1000	42]	
13108.06		400	24		
13108.07		600	32		
13108.08	300	800	40]	
13108.09		900	48		
13108.10		1000	56		93101.01
13108.11		400	36]	
13108.12	400	600	48	68	
13108.13		800	60		
13108.14		900	72		
13108.15		1000	84		
13108.16		400	42		
13108.17		600	56]	
13108.18	500	800	70	· ·	
13108.19		900	84		
13108.20		1000	98		93101.02
13108.21		600	72		93101.01
13108.22	000	800	90	1	
13108.23	600	900	108]	93101.02
13108.24		1000	126		

• Due to continuous upgradation in design there could be changes in specifications.

Electro Permanent Magnetic Chucks













Electro Permanent Magnetic Chucks



ART 13130 Innovative Magnetic Bed.

Application

- Can be used for heavy duty milling operations.
- Tee Slots in the working face of the chuck enables clamping Magnetically and/ or Mechanically all types of jobs be it ferrous or non-ferrous.

Feature

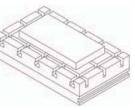
- The working face of the Magnetic Chuck is machined from a single block of mild steel, wherein the poles are demarcated by making slots in the Top surface obviating the need to use filler material.
- 100% safety to Original Machine Bed.
- Universal Clamping directly on Magnetic Chuck.
- 100% Leaf Proof.
- Maximum Accuracy.
- Very Rigid and Robust construction.
 No Energy No Expansion No Defe
 - No Epoxy No Expansion No Deformation.
- No damage No burning.

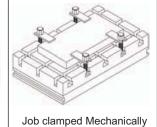


	Available EPM Chucks	MAGNASLOT
Clamping of Ferrous Jobs	Can be Clamped.	Can be Clamped.
Clamping of Non-Ferros Jobs	Can only be clamped using special fixtures or vices.	Can be clamped on T Slots.
Working Face Accuracy	Due to excessivve heat generation in some operations, Epoxy bulges.	Solid Steel Top helps distribution of heat all over the chuck and retails accuracy.

- A Complete Magnetic Bed for your Machine.
- The operating voltage is 220/440 V.
- Can be designed for other operating voltages.
- All steel top working face without T-slot also available.







Job clamped Magnetically

All dimensions are in mm

13130.10 400 600 70 13130.11 800 1000 13130.12 1000 13130.13 400 13130.14 500 13130.15 800	Art No.	W	L	н	Controller
13130.03 250 800 13130.04 1000 13130.05 400 13130.06 600 13130.07 800 13130.08 1000 13130.09 400 13130.10 400 13130.11 600 13130.12 1000 13130.13 400 13130.14 500 800 800	13130.01		400		
13130.03 800 13130.04 1000 13130.05 400 13130.06 600 13130.07 800 13130.08 1000 13130.09 400 13130.10 400 13130.11 600 13130.12 1000 13130.13 400 13130.14 500 13130.15 800	13130.02	050	600		
13130.05 400 13130.06 600 13130.07 800 13130.08 1000 13130.09 400 13130.09 600 13130.10 600 13130.11 600 13130.12 1000 13130.13 400 13130.14 500 13130.15 800	13130.03	250	800		
13130.06 300 600 9300 93101.01 13130.07 300 800 93101.01 93101.01 13130.09 400 600 70 93101.01 13130.10 400 800 70 93101.01 13130.11 1000 13130.13 900 1000 11130.13 1000 1113130.13 1000 1113130.14 500 600 800 1000	13130.04		1000		
13130.07 300 800 13130.08 1000 13130.09 400 13130.10 400 13130.11 600 13130.12 1000 13130.13 400 13130.14 500 13130.15 800	13130.05		400		
13130.07 800 13130.08 1000 13130.09 400 13130.10 600 13130.11 800 13130.12 1000 13130.13 400 13130.14 500 13130.15 800	13130.06		600		
13130.09 400 93101.01 13130.10 400 600 70 13130.11 1000 13130.12 1000 13130.13 400 600 13130.13 13130.14 500 600 1000	13130.07	300	800		
13130.10 400 600 70 13130.11 800 70 13130.12 1000 13130.13 400 13130.14 500 13130.15 800	13130.08		1000	70	93101.01
13130.10 400 600 70 13130.11 800 1000 13130.12 1000 13130.13 400 13130.14 500 13130.15 800	13130.09		400		
13130.11 800 13130.12 1000 13130.13 400 13130.14 500 13130.15 800	13130.10	400	600		
13130.13 400 13130.14 500 600 13130.15 800 800	13130.11	100	800	10	
13130.14 500 600 13130.15 800	13130.12		1000		
13130.15 800	13130.13		400		
13130.15 800	13130.14	500	600		
12120.16 1000 02101.02	13130.15	000	800		
1000 93101.02	13130.16		1000		93101.02
13130.17 600 93101.01	13130.17		600		93101.01
13130.18 600 800 93101.02	13130.18	600	800		93101.02
13130.19 1000	13130.19		1000		93101.0Z

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Heavy Duty Standard Pole Rectangular Magnetic Chuck

Features

- Energy Saving : electricity is required only for switching On/Off.
- · High clamping force by super powerful NdFeb magnets.
- · Uniformity of clamping over the entire contact surface.
- · Drastically reduces the setup time of work pieces.
- Power from entire pole is induced to components for maximum magnetisation.
- All metal surface provides stable working area for heavy duty milling.

Applications

- For milling application of medium and large sizes of jobs.
- Suitable for milling operations of plates/ flats/ strips having flat smooth surface and thickness > 10mm.
- Pole extensions raise the workpiece above the chuck to provide clearance for the cutters.
- Dowel holes can be made on working surface for location of work piece.
- These chucks are also available in transverse pole design and the ordering code for the same is 13103.
- These chucks can also be designed for job thickness above 5mm.

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All dimensions are in mm.

Art No.	W	L	н	Pole Pitch	Controller			
13104.01		450						
13104.02		500						
13104.03		525						
13104.04	260	630						
13104.05		700						
13104.06		800 70						
13104.07		1000						
13104.08		450						
13104.09		500	65 (15+50			93101.01		
13104.10		525		65 (15+50)				
13104.11	310	630						
13104.12		700						
13104.13		810						
13104.14		1000						
13104.15		630						
13104.16	400	1000	75					
13104.17	400	1200			93101.02			
13104.18		1500			33101.02			
13104.19	410	810			93101.01			
13104.20	500	2000			93101.03			

• Due to continuous upgradation in design there could be changes in specifications.

Other sizes on request.



Number of small components can be machined using simple pole extension fixtures.



Side milling can be performed using raised blocks for free cutter movement.



EPGRIND

ART 13105 Fine Cross Pole Rectangular Magnetic Chuck

Applications

- For grinding application of all sizes of jobs.
- These chucks are suitable for all surface grinding machines.



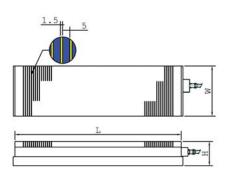
Features

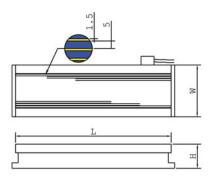
- No electricity required to keep the chuck ON.
- All metal top plate of brass and steel lamination provides full active area.
- Variable power makes it possible to adjust the magnetic force.
- Holds all type and sizes of work pieces.
- No heat built up, no deformation provides high precision accuracy.



Chucks with long pole configuration are also available.

- These chucks are also available in long pole design and the ordering code for the same is 13106.
- · Large area can be arranged by multiple mounting of chucks side by side which can be operated by a single controller.
- Special purpose chucks can also be designed to suit particular applications.
- Pole pitch of 2mm (1.5+0.5) can be made at extra cost.





Art No.	w	L	Pole Pitch	н	Controller
13105.01	150	300			
13105.02		450			
13105.03	200	500			
13105.04	200	600			
13105.05		600		80	
13105.06	250	750			
13105.07	200	1000			
13105.08		1500			
13105.09		600	6.5		93101.01
13105.10	300	750	(5+1.5)		00101101
13105.11		900			
13105.12	300	1000			
13105.13		1200			
13105.14		1500		85	
13105.15	400	600		00	
13105.16	400	900			
13105.17	750				
13105.18	500	1000			
13105.19		2000			93101.02
13105.20	600	750			93101.01

• Due to continuous upgradation in design there could be changes in specifications.



ART 13107

EPCUBE Square pole Rectangular Magnetic chuck

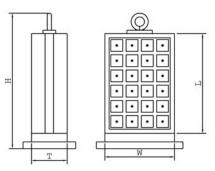
Applications

- Specially made for Horizontal Machining Centers.
- Achievement of total flexibility to clamp work pieces of different shapes and sizes, even larger than those of the clamping area.
- Easily integrated with pallet clamping and FMS system.

Features

- Unobstructed movement of the cutter during machining, as all five faces of the job can be machined at the same setting.
- Single or multiple work pieces get clamped ergonomically and easily by the operator outside the machining area.

• Power connection from detachable bayonet connector, position can be changed.





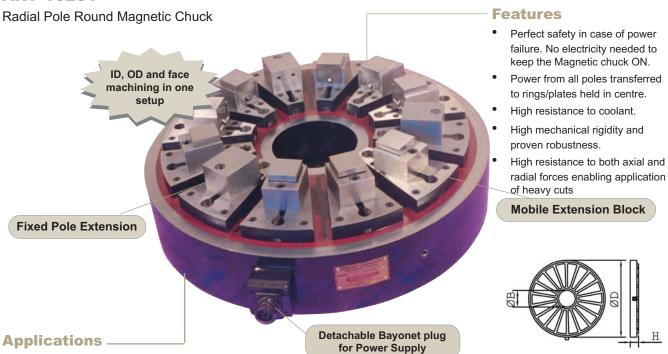
All dimensions are in mm.

Art No.	W	L	т	Н	No. Of Poles	Controller
13107.01	475	425	180	600	16	
13107.02	475	595	200	780	24	93101.01
13107.03	625	665	200	860	42	

• Due to continuous upgradation in design there could be changes in specifications.



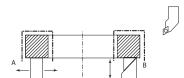
PRADIAL **ART 13201**



Applications

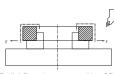
All dimensions are in mm.

- ٠ Clamps ferromagnetic rings on vertical and horizontal turning lathes.
- Radially movable location blocks will help to position and secure work pieces (bearing rings, thrust bearings, etc.); this is also necessary for clearance of the cutting tool or wheel.
- Mobile Pole extensions ensures perfect clamping of irregular work pieces and machining it flat & parallel.
- For power connection bayonet connector is recommended when the chuck is intended to be used in different machines.
- Carbon Brush Holder with brass collector slip rings is fitted on the machine spindle for power supply. It is recommended when the chuck is for a specific machine.



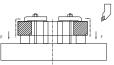
RADIAL POLE CLAMPING

Fixed Moving pole extension projects the job up from the holding face thus giving way for tool to pass through the ID/ OD.



CHUCK JAW CLAMPING

Radial Clamping - can machine OD + Face a time



Axail Clamping - can machine OD or ID at a time.

Controller Art No. D н В 13201.01 300 90 13201.02 450 150 13201.03 500 90 175 93101.01 13201.04 600 200 13201.05 800 250 13201.06 1000 250 93101.02 100 13201.07 1250 300 13201.08 1500 500 110 13201.09 1750 500 93101.04 13201.10 2000 500 115 2500 13201.11 600

• Due to continuous upgradation in design there could be changes in specifications.





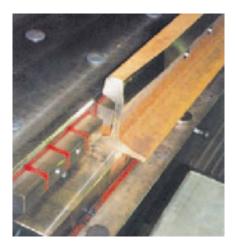
EPRAIL ART NO. 13110 Heavy Duty EPM systems for Rail Machining

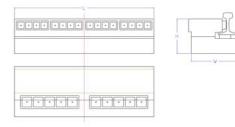
Applications

- A EPRAIL system is composed using a series of modular elements with approx. 1000 mm length each, in order to build up magnetic tables for different types of machines and lengths of rail to be machined.
- Each EPRAIL module has independent magnetic sectors right angle placed to clamp respectively the foot and the web of the rail.

Features

- High clamping force.
- Perfect alignment of the rail.
- Accurate and uniform clamping.
- Complete machining in only 2 set-ups.
- Absence of machining vibrations.
- Low tools consumption.
- High stock removal.
- Superior accuracies and finishing.
- Ergonomic and practical use.
- Easy chips removal.
- Energy saving.
- Different Profiles of rails can be clamped on same magnet using pole extensions.



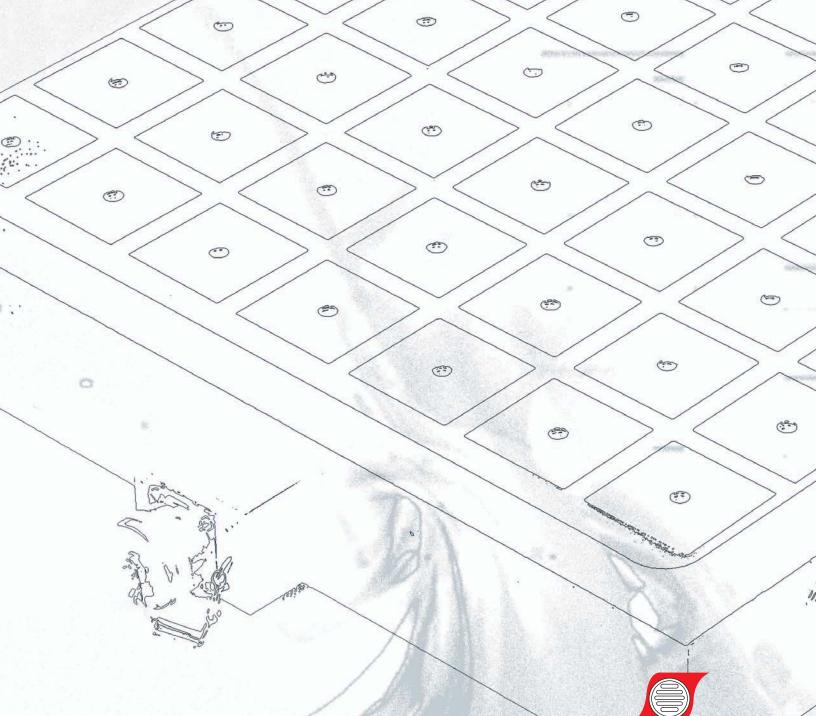




All dimensions are in mm.

Art No.	w	L	н	Controller
13110.01	390	1080	268	93101.05

• Due to continuous upgradation in design there could be changes in specifications.



EAST COAST MAGNETS PRIVATE LIMITED 100% EOU

44/1/6, Phase 1, I.D.A. Jeedimetla, Hyderabad - 55, India Ph.: (91-40) 2309 8262 • Fax: (91-40) 2309 8261 E-mail: info@sardamagnets.com Website: www.sardamagnets.com

EAST COAST ENTERPRISERS LIMITED 33, Brabourne Road, Kolkata - 01, India Ph.: (91-33) 2242 1796 • Fax: (91-33) 2242 6568 E-mail: info@sardamagnets.com Website: www.sardamagnets.com