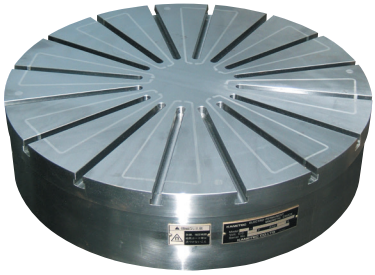
Model EPC-AST ROUND PERMANENT ELECTROMAGNETIC CHUCK

Revolutionary permanent electromagnetic chuck! Magnetic force adjustable!

Patented



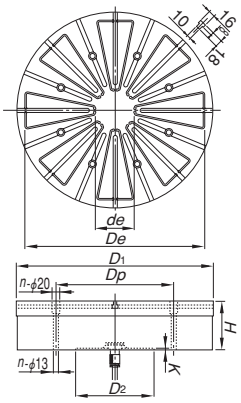
EPC-50AS-S
<An example of special fabrication>

Power saving

Minimal heat generation

Environmentally friendly

Chuck controller required additionally



[Application]
Suitable for machining of ring-shaped workpieces such as bearings while rotating them on lathes, turning machines, cylindrical grinders and rotary grinders.

[Features]
- When used in combination with a dedicated controller equipped with a magnetic force adjust function, the magnetic force can be adjusted between strong and weak.
- Since internal heat generation and thermal distortion are minimal, highly precise machining is possible.
- Can be used in wet operations.
- These chucks are provided with T-grooves to make them suitable for various workpieces.

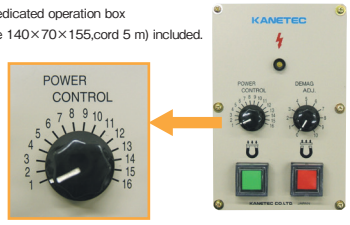
A size φ1200 and larger is also available.

[mm (in)]

Model	Nominal Size	Work Face			No. of Poles	Mounting Face				Height	Voltage	Current	Mass	Electro Chuck Master
		D_1	De	de		D_2	K	n	Dp	H				
EPC- 50AST	500 (19.6)	500 (19.6)	460 (18.1)	100 (3.93)	8	200 (7.87)	5 (0.19)	8	300 (11.8)	125 (4.92)	180 VDC	27A	Approx. 140kg/ 308 lb	EPS-RW230A
EPC- 70AST	700 (27.5)	700 (27.5)	656 (25.8)	120 (4.72)		400 (15.7)			500 (19.6)	130 (5.11)		32A	Approx. 330kg/ 727 lb	EPS-RW250A
EPC- 90AST	900 (35.4)	900 (35.4)	850 (33.4)	200 (7.87)	12	500 (19.6)	6 (0.23)	12	700 (27.5)	140 (5.51)		45A	Approx. 600kg/1323 lb	
EPC-120AST	1200 (47.2)	1200 (47.2)	1150 (45.2)	300 (11.8)	18	650 (25.5)		18	1000 (39.4)	150 (5.90)		60A	Approx. 1100kg/2425 lb	EPS-RW275A

※The chuck controller is not included.
※The slip ring (carbon brush included) is optional. The brush holder support bar for the slip ring should be provided by the user.
※Turning the permanent electromagnetic chucks on and off must be limited to once per several minutes. If on/off operations are repeated frequently, the chucks may be damaged by overheat.

※Dedicated operation box
(Size 140×70×155,cord 5 m) included.



[mm (in)]

Model	Power Source	Output		Dimensions			Mass
		Voltage	Current	Width	Height	Depth	
EPS-RW230A	Single-phase 200 VAC (50/60Hz)	180 VDC (16 steps)	30A	400 (15.7)	480 (18.8)	190 (7.48)	Approx. 15kg/33.0 lb
EPS-RW250A			50A		725 (28.5)	250 (9.84)	Approx. 35kg/77.1 lb
EPS-RW275A			75A				

Model EPC-ARF ROUND PERMANENT ELECTROMAGNETIC CHUCK

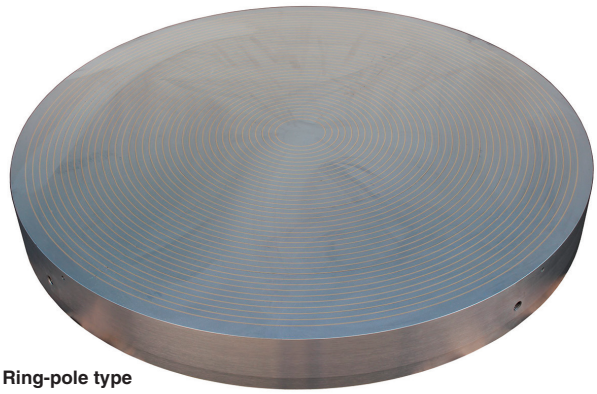
Highly precise rotary grinding operations realized!

Power saving

Minimal heat generation

Environmentally friendly

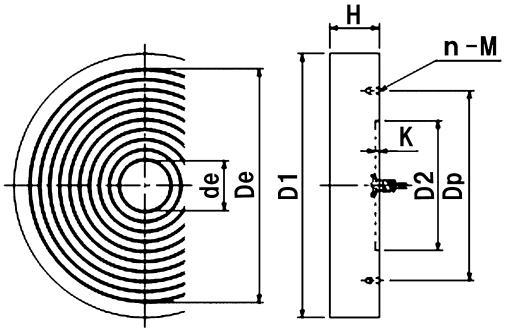
Chuck controller required additionally



Ring-pole type
EPZ-120ARF

[Application]
Most suitable for grinding operations by rotary grinders.

[Features]
- Since electricity needs not be supplied continuously (momentarily supplied only when mounting and demounting workpieces), heat generation and thermal deformation are minimal, thus highly precise machining operations are possible. Also, the running cost is very low and electricity can be saved.
- The holding power is maintained by the permanent magnet in the case of such troubles as power failure and cable breakage to enhance safe operations.
- In addition to four standard sizes, sizes of φ500 mm minimum and up to φ1500 mm are available.
- Can be used in wet operations.
- A resin-bonded structural face plate having little environmental burden is employed.



[mm (in)]

Model	Nominal Size	Work Face			Pole Pitch	Mounting Face					Height	Voltage	Mass	Electro Chuck Master
		D_1	De	de		D_2	K	n	M	Dp	H			
EPC- 63ARF	630 (24.8)	630 (24.8)	580 (22.8)	100 (3.93)	14 (2+12) 0.55 (0.07+0.47)	300 (11.8)	4 (0.15)	5	M12 (0.47)	500 (19.6)	120 (4.72)	180 VDC	250kg/ 551 lb	EPS-GWB230A
EPC- 80ARF	800 (31.4)	800 (31.4)	748 (29.4)			400 (15.7)		6		650 (25.5)			410kg/ 904 lb	
EPC-103ARF	1030 (40.5)	1030 (40.5)	976 (38.4)	104 (4.09)		550 (21.6)		8		850 (33.4)			680kg/1499 lb	
EPC-120ARF	1200 (47.2)	1200 (47.2)	1144 (45.0)			600 (23.6)				1000 (39.3)			930kg/2050 lb	

※The chuck controller is not included. ※The slip ring(SR-1) and carbon brush(BH-1A-8A) are optional.