

ELECTROMAGNETIC CHUCKS

Model **KEC-AR/AS** ROUND ELECTROMAGNETIC CHUCK



[Application]

Suitable for grinding and cutting operations with the chuck mounted on such machine tools as rotary grinders, lathes, turning machines and rotary milling machines that rotate workpieces to machine. This model comes in two types; ring pole and star pole according to the patterns on the chuck work face. The ring pole type is used for general grinding operations and the star pole type for cutting operations also.

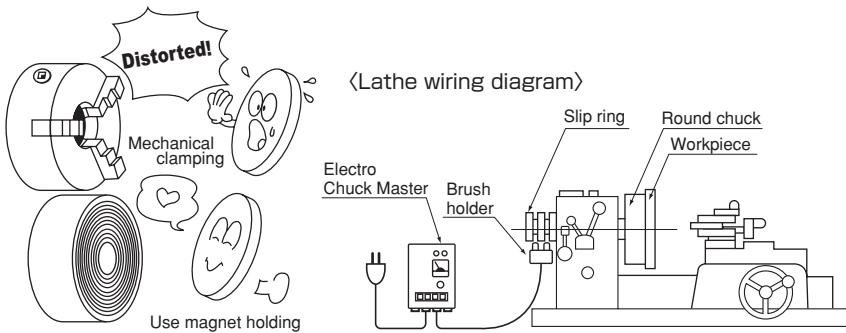
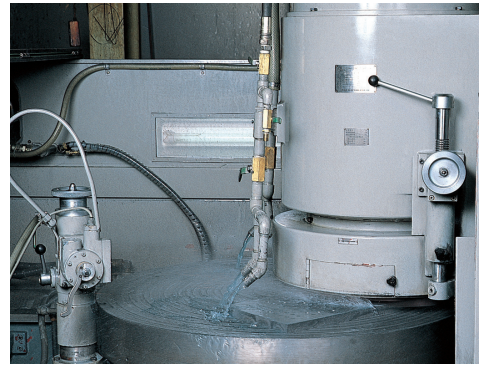
[Features]

- Relatively thin workpieces that are likely to be distorted by mechanical clamping can be held by uniform holding power of the ring pole type for highly precise machining.
- For such operations as cutting thick workpieces, the star pole type is recommended that generates strong holding power.

Chuck controller required additionally

Feeder required additionally (See below)

An example of installation on a vertical grinder



Ring-Pole Type

[mm (in)]

Model	Nominal Size	Work Face			Pole Pitch	No. of Poles	Mounting Face					Height H	Voltage	Current	Mass	Electro Chuck Master	Remarks	
		D ₁	D _e	d _e			D ₂	K	n	M	D _p							
KEC-10ARE	100 (3.93)	100 (3.93)	75 (2.95)	29 (1.14)	10(3+7) (0.39)	-	63 (2.48)	4 (0.15)	4 (0.15)	M 6 (0.23)	80 (3.15)	85 (3.34)	90 VDC	0.06A	4kg/ 8 lb	*ES-M103B ES-M305B EH-V305A EH-VE305A	*For types with a combination of a rectifier and demagnetizer, see pages of "Chuck Controllers."	
KEC-16ARE	160 (6.29)	160 (6.29)	135 (5.31)		125 (4.92)		M 8 (0.31)			141 (5.55)								
KEC-20ARE	200 (7.87)	200 (7.87)	161 (6.33)	35 (1.37)	160 (6.29)		M 10 (0.39)			178 (7.00)								
KEC-25ARE	250 (9.84)	250 (9.84)	223 (8.77)		200 (7.87)		M 10 (0.39)			224 (8.81)								
KEC-32ARE	315 (12.4)	315 (12.4)	271 (10.6)		250 (9.84)		M 12 (0.47)			280 (11.0)								
KEC-40ARE	400 (15.7)	400 (15.7)	367 (14.4)	49 (1.92)	315 (12.4)		M 12 (0.47)			355 (13.9)	90							
KEC-50ARE	500 (19.6)	500 (19.6)	463 (18.2)		400 (15.7)		M 12 (0.47)			450 (17.7)								
KEC-63ARE	630 (24.8)	630 (24.8)	583 (22.9)		500 (19.6)		M 16 (0.62)			560 (22.0)								
KEC-80ARE	800 (31.5)	800 (31.5)	748 (29.4)	70 (2.75)	14(3+11) (0.55)		8 (0.31)			710 (27.9)	110							
KEC-100ARE	1000 (39.4)	1000 (39.4)	944 (37.1)		800 (31.5)		M 16 (0.62)			900 (35.4)	110							

Star-Pole Type

[mm (in)]

Model	Nominal Size	Work Face			Pole Pitch	No. of Poles	Mounting Face					Height H	Voltage	Current	Mass	Electro Chuck Master	Remarks	
		D ₁	D _e	d _e			D ₂	K	n	M	D _p							
KEC-10ASE	100 (3.93)	100 (3.93)	75 (2.95)	29 (1.14)	-	8	63 (2.48)	4 (0.15)	4 (0.15)	M 6 (0.23)	80 (3.15)	85 (3.34)	90 VDC	0.04A	4.2kg/ 9 lb	*ES-M103B ES-M305B EH-V305A EH-VE305A	*For types with a combination of a rectifier and demagnetizer, see pages of "Chuck Controllers."	
KEC-16ASE	160 (6.29)	160 (6.29)	135 (5.31)				125 (4.92)			M 8 (0.31)	140 (5.51)							
KEC-20ASE	200 (7.87)	200 (7.87)	161 (6.33)	40 (1.57)			160 (6.29)			M 10 (0.39)	178 (7.00)							
KEC-25ASE	250 (9.84)	250 (9.84)	223 (8.77)				200 (7.87)			M 10 (0.39)	224 (8.81)							
KEC-32ASE	315 (12.4)	315 (12.4)	271 (10.6)				250 (9.84)			M 10 (0.39)	280 (11.0)							
KEC-40ASE	400 (15.7)	400 (15.7)	367 (14.4)	49 (1.92)			315 (12.4)			M 12 (0.47)	355 (13.9)			90				
KEC-50ASE	500 (19.6)	500 (19.6)	463 (18.2)				400 (15.7)			M 12 (0.47)	450 (17.7)							
KEC-63ASE	630 (24.8)	630 (24.8)	583 (22.9)				500 (19.6)			M 16 (0.62)	560 (22.0)							
KEC-80ASE	800 (31.5)	800 (31.5)	748 (29.4)	70 (2.75)			14(3+11) (0.55)			8 (0.31)	710 (27.9)			110				
KEC-100ASE	1000 (39.4)	1000 (39.4)	944 (37.1)				800 (31.5)			M 16 (0.62)	900 (35.4)			110				

*If the magnetic force needs not be adjusted, use ES-M.

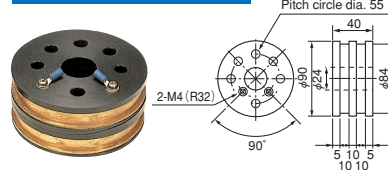
*The chuck controller and clamp parts are not included. The KANETEC chucks work best when a KANETEC chuck controller is used.

Feeder (optional)

This feeder is required to use the round type electromagnetic chucks. Since the chuck itself is rotated, the feeder cables cannot be connected directly. For this reason, electricity is fed via a slip contact between the carbon brush on the power source side and the slip ring attached to the chuck.

- The $\phi 24$ mounting hole of the slip ring (SR-1) can be expanded up to $\phi 40$.

Slip ring Model SR-1



Brush holder Model BH-1 A

