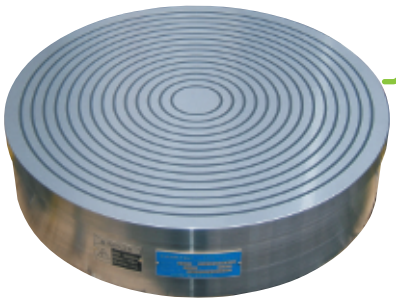
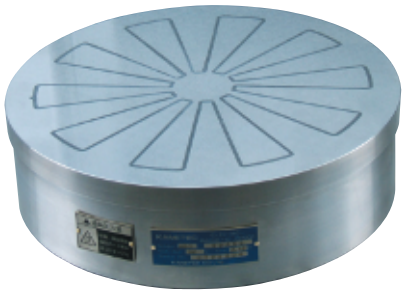
Model KEC-AR/AS ROUND ELECTROMAGNETIC CHUCK



KEC-40ARE

Environmentally friendly



KEC-32ASE

[Application]

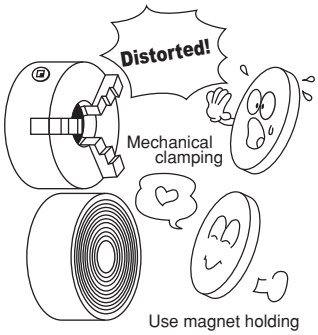
Suitable for grinding and cutting operations with the chuck mounted on such machine tools as rotary grinders, lathes, turning machines and rotary milling machines that rotate workpieces to machine. This model comes in two types; ring pole and star pole according to the patterns on the chuck work face.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

[Features]

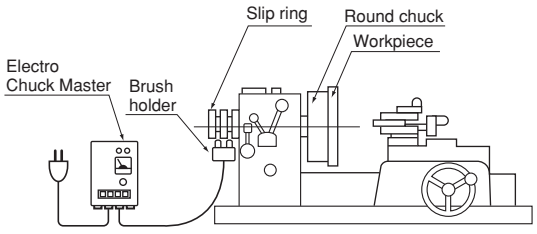
- Relatively thin workpieces that are likely to be distorted by mechanical clamping can be held by uniform holding power of the ring pole type for highly precise machining.
- For such operations as cutting thick workpieces, the star pole type is recommended that generates strong holding power.

Chuck controller required additionally

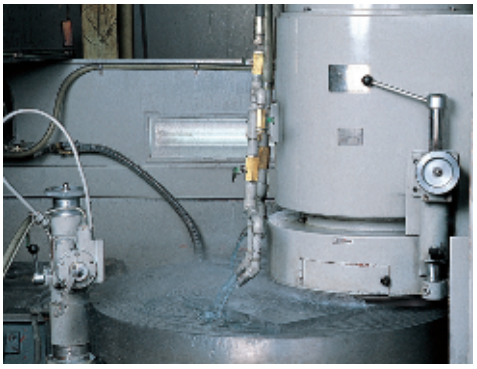
Feeder required additionally (See below)



〈Lathe wiring diagram〉



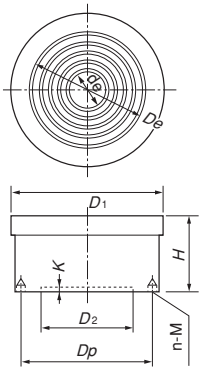
An example of installation on a vertical grinder



Ring-Pole Type

[mm(in)]

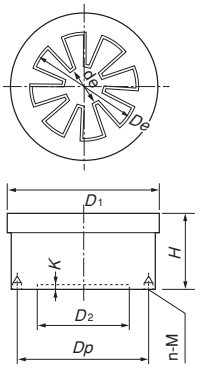
Model	Nominal Size	Work Face D_1	Work Face De	Work Face de	Pole Pitch	No. of Poles	Mounting Face D_2	Mounting Face K	Mounting Face n	Mounting Face M	Mounting Face Dp	Height H	Voltage	Current	Mass	Electro Chuck Master	Remarks
KEC- 10ARE	100 (3.93)	100 (3.93)	75 (2.95)	29 (1.14)	10(3+7) (0.39)	–	63 (2.48)	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." P17—P20
KEC- 16ARE	160 (6.29)	160 (6.29)	135 (5.31)				125 (4.92)			M 8 (0.31)	141 (5.55)			0.29A	12kg/ 26 lb		
KEC- 20ARE	200 (7.87)	200 (7.87)	161 (6.33)	35 (1.37)	12(3+9) (0.47)		160 (6.29)				178 (7.00)			0.26A	19kg/ 41 lb		
KEC- 25ARE	250 (9.84)	250 (9.84)	223 (8.77)	49 (1.92)			200 (7.87)			M10 (0.39)	224 (8.81)	90 (3.54)		0.52A	33kg/ 72 lb		
KEC- 32ARE	315 (12.4)	315 (12.4)	271 (10.6)				250 (9.84)				280 (11.0)			0.53A	52kg/ 114 lb		
KEC- 40ARE	400 (15.7)	400 (15.7)	367 (14.4)				315 (12.4)				355 (13.9)			1.10A	93kg/ 205 lb		
KEC- 50ARE	500 (19.6)	500 (19.6)	463 (18.2)				400 (15.7)				450 (17.7)			1.85A	130kg/ 286 lb		
KEC- 63ARE	630 (24.8)	630 (24.8)	583 (22.9)				500 (19.6)			M12 (0.47)	560 (22.0)			3.10A	190kg/ 418 lb	Above models except for the one marked by ※.	
KEC- 80ARE	800 (31.5)	800 (31.5)	748 (29.4)	70 (2.75)	14(3+11) (0.55)		630 (24.8)		8 (0.31)		710 (27.9)	110 (4.33)		5.10A	370kg/ 815 lb	EH-VE210D	
KEC-100ARE	1000 (39.4)	1000 (39.4)	944 (37.1)				800 (31.5)			M16 (0.62)	900 (35.4)			6.55A	580kg/ 1278 lb		



Star-Pole Type

[mm(in)]

Model	Nominal Size	Work Face D_1	Work Face De	Work Face de	Pole Pitch	No. of Poles	Mounting Face D_2	Mounting Face K	Mounting Face n	Mounting Face M	Mounting Face Dp	Height H	Voltage	Current	Mass	Electro Chuck Master	Remarks
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." P17—P20
KEC- 16ASE	160 (6.29)	160 (6.29)	135 (5.31)				125 (4.92)			M 8 (0.31)	140 (5.51)			0.08A	12kg/ 26 lb		
KEC- 20ASE	200 (7.87)	200 (7.87)	161 (6.33)	40 (1.57)			160 (6.29)				178 (7.00)			0.13A	19kg/ 41 lb		
KEC- 25ASE	250 (9.84)	250 (9.84)	223 (8.77)	49 (1.92)			200 (7.87)			M10 (0.39)	224 (8.81)	90 (3.54)		0.40A	33kg/ 72 lb		
KEC- 32ASE	315 (12.4)	315 (12.4)	271 (10.6)			10	250 (9.84)				280 (11.0)			0.44A	52kg/ 114 lb		
KEC- 40ASE	400 (15.7)	400 (15.7)	367 (14.4)				315 (12.4)				355 (13.9)			0.68A	93kg/ 205 lb		
KEC- 50ASE	500 (19.6)	500 (19.6)	463 (18.2)				400 (15.7)				450 (17.7)			1.00A	145kg/ 319 lb		
KEC- 63ASE	630 (24.8)	630 (24.8)	583 (22.9)				500 (19.6)			M12 (0.47)	560 (22.0)			1.28A	190kg/ 418 lb		
KEC- 80ASE	800 (31.5)	800 (31.5)	748 (29.4)	70 (2.75)		12	630 (24.8)		8 (0.31)		710 (27.9)	110 (4.33)		1.88A	370kg/ 815 lb		
KEC-100ASE	1000 (39.4)	1000 (39.4)	944 (37.1)				800 (31.5)			M16 (0.62)	900 (35.4)			3.92A	580kg/ 1278 lb	Above models except for the one marked by ※.	



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

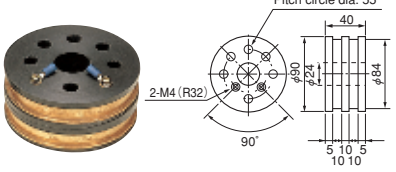
※The chuck controller and clamp parts are not included. The KANETEC chucks work best when a KANETEC chuck controller is used.

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 ϕ24 mounting hole of the slip ring (SR-1) can be expanded up to ϕ40.

Slip ring Model SR-1



Brush holder Model BH-1A