

ELECTROMAGNETIC CHUCKS

Model KCT WATER-COOLED RECTANGULAR ELECTROMAGNETIC CHUCK

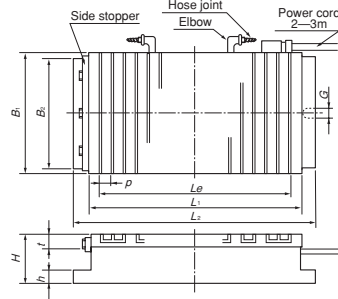
Environmentally friendly

Water cooled



KCT-2550F

Chuck controller required additionally



[Features]

- A special construction to cool the electromagnetic coils directly.
- A unique construction; accuracy change is very small and temperature rise is minimized by using both cooling water flowing inside the chuck and grinding fluid sprayed over the top surface. This design minimizes thermal expansion of the chuck due to temperature rise.
- Cooling water flows inside the chuck, but KANETEC's original design protects the internal coils from damage.
- Most suitable for dry grinding operations as heat of workpieces is also removed.
- A resin-bonded structural face plate having little environmental burden is employed.

[Application]

Since no heat is generated when the power is on, this model is suitable for high precision grinding.

[mm (in)]

Model	Nominal Size	Work Face				Pole Pitch	Mounting Face			Height	Mounting Hole	Hose Coupling	Voltage	Current	Power Cord	Mass	Electro Chuck Master	Remarks
		B ₁	L ₁	t	L _e		B ₂	L ₂	h									
KCT-1025F	100 (3.93) × 250 (9.84)	100 (3.93)	250 (9.84)	21	211 (8.30)	11 (2+9) (0.43)	96 (3.78)	294 (11.5)	85 (3.34)	10 (0.39)	φ 8 (0.31)	90 VDC	0.16A	2m	15kg/ 33 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	
KCT-1325F	125 (4.92) × 250 (9.84)	125 (4.92)	250 (9.84)	21	212 (8.34)	11 (2+9) (0.43)	119 (4.68)	294 (11.5)	85 (3.34)	10 (0.39)			0.19A	19kg/ 41 lb				
KCT-1530F	150 (5.90) × 300 (11.8)	150 (5.90)	300 (11.8)	21	240 (9.44)	14 (2+12) (0.55)	144 (5.66)	344 (13.5)	85 (3.34)	10 (0.39)			0.20A	26kg/ 57 lb				
KCT-1535F	150 (5.90) × 350 (13.7)	150 (5.90)	350 (13.7)	21	296 (11.6)	14 (2+12) (0.55)	144 (5.66)	394 (15.5)	85 (3.34)	10 (0.39)			0.22A	31kg/ 68 lb				
KCT-1545F	150 (5.90) × 450 (17.7)	150 (5.90)	450 (17.7)	21	408 (16.0)	14 (2+12) (0.55)	144 (5.66)	494 (19.4)	85 (3.34)	10 (0.39)			0.29A	39kg/ 85 lb				
KCT-2040F	200 (7.87) × 400 (15.7)	200 (7.87)	400 (15.7)	25	352 (13.8)	19.5 (2.5+17) (0.76)	194 (7.63)	444 (17.4)	95 (3.74)	Clamping (No hole)			0.43A	46kg/ 101 lb				
KCT-2050F	200 (7.87) × 500 (19.6)	200 (7.87)	500 (19.6)	25	464 (18.2)	19.5 (2.5+17) (0.76)	194 (7.63)	544 (21.4)	95 (3.74)	Clamping (No hole)			0.34A	57kg/ 125 lb				
KCT-2060F	200 (7.87) × 600 (23.6)	200 (7.87)	600 (23.6)	25	548 (21.5)	19.5 (2.5+17) (0.76)	194 (7.63)	600 (23.6)	95 (3.74)	Clamping (No hole)			0.47A	66kg/ 145 lb				
KCT-2550F	250 (9.84) × 500 (19.6)	250 (9.84)	500 (19.6)	25	451 (17.7)	19.5 (2.5+17) (0.76)	240 (9.44)	500 (19.6)	100 (3.93)	φ 12 (0.47)			0.56A	80kg/ 176 lb				
KCT-2560F	250 (9.84) × 600 (23.6)	250 (9.84)	600 (23.6)	25	529 (20.8)	19.5 (2.5+17) (0.76)	240 (9.44)	600 (23.6)	100 (3.93)	φ 12 (0.47)			0.72A	97kg/ 213 lb				
KCT-3050F	300 (11.8) × 500 (19.6)	300 (11.8)	500 (19.6)	25	451 (17.7)	19.5 (2.5+17) (0.76)	290 (11.4)	500 (19.6)	100 (3.93)	φ 12 (0.47)			0.68A	93kg/ 205 lb				
KCT-3060F	300 (11.8) × 600 (23.6)	300 (11.8)	600 (23.6)	25	529 (20.8)	19.5 (2.5+17) (0.76)	290 (11.4)	600 (23.6)	100 (3.93)	φ 12 (0.47)			1.06A	112kg/ 247 lb				
KCT-4050F	400 (15.7) × 500 (19.6)	400 (15.7)	500 (19.6)	25	451 (17.7)	19.5 (2.5+17) (0.76)	390 (15.3)	500 (19.6)	100 (3.93)	φ 12 (0.47)			0.96A	132kg/ 291 lb				
KCT-4060F	400 (15.7) × 600 (23.6)	400 (15.7)	600 (23.6)	25	529 (20.8)	19.5 (2.5+17) (0.76)	390 (15.3)	600 (23.6)	100 (3.93)	φ 12 (0.47)			1.09A	159kg/ 350 lb				
KCT-5050F	500 (19.6) × 500 (19.6)	500 (19.6)	500 (19.6)	25	451 (17.7)	19.5 (2.5+17) (0.76)	490 (19.2)	500 (19.6)	100 (3.93)	φ 12 (0.47)	0.93A	167kg/ 368 lb						
KCT-5060F	500 (19.6) × 600 (23.6)	500 (19.6)	600 (23.6)	25	529 (20.8)	19.5 (2.5+17) (0.76)	490 (19.2)	600 (23.6)	100 (3.93)	φ 12 (0.47)	1.06A	204kg/ 449 lb						

*If the magnetic force needs not be adjusted, use ES-M. *A cooler unit is required additionally.

*The chuck controller and clamp parts are not included. The KANETEC chucks work best when a KANETEC chuck controller is used. *Only the side stopper is included. (The back stopper is not included.)

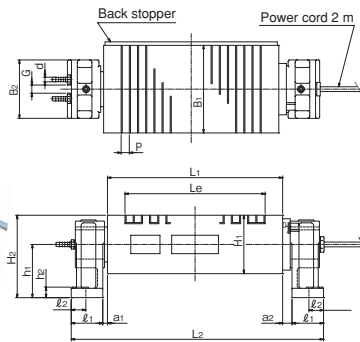
Model KCT-U WATER-COOLED TILT TYPE ELECTROMAGNETIC CHUCK

Environmentally friendly

Water cooled



KCT-1535UF



[Application]

Suitable for high precision angle grinding.

[Features]

- Cooling water flows inside the chuck, but KANETEC's original design protects the internal coils from damage.
- Since the cooling hose is connected to the shaft, a desired tilting range can be set.
- The hose does not become an obstacle regardless of tilting angles of the work face. Grinding at a tilted angle can be carried out without paying attention to the hose location.
- The tilting angle can be set as desired in a range of 90° forward and 90° backward.
- Cooling water is let flow inside the chuck to cool the coils directly and grinding fluid cools the top surface to provide a high cooling effect to minimize temperature rise. This design thus minimizes accuracy change of the chuck.
- A resin-bonded structural face plate having little environmental burden is employed.

[mm (in)]

Model	Nominal Size	Work Face				Pole Pitch	Tilt Base						Length	Height	Hose Coupling	Voltage	Current	Mass	Electro Chuck Master	Remarks
		B ₁	L ₁	L _e	H ₁		B ₂	l ₁	l ₂	G	h ₁	h ₂								
KCT-1025UF	100 (3.93) × 250 (9.84)	100 (3.93)	250 (9.84)	211 (8.30)	11 (2+9) (0.43)	95 (3.74)	75 (2.95)	16 (0.63)	125 (4.92)	125 (4.92)	φ 8 (0.31)	90 VDC	0.16A	21kg/ 46 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				
KCT-1030UF	100 (3.93) × 300 (11.8)	100 (3.93)	300 (11.8)	255 (10.0)	11 (2+9) (0.43)	95 (3.74)	75 (2.95)	16 (0.63)	125 (4.92)	125 (4.92)	φ 8 (0.31)		0.21A	23kg/ 50 lb						
KCT-1040UF	100 (3.93) × 400 (15.7)	100 (3.93)	400 (15.7)	365 (14.3)	11 (2+9) (0.43)	95 (3.74)	75 (2.95)	16 (0.63)	125 (4.92)	125 (4.92)	φ 8 (0.31)		0.26A	30kg/ 66 lb						
KCT-1230UF	120 (4.72) × 300 (11.8)	120 (4.72)	300 (11.8)	240 (9.44)	14 (2+12) (0.55)	54 (2.12)	25 (0.98)	14 (0.55)	141 (5.55)	141 (5.55)	φ 8 (0.31)		0.21A	29kg/ 64 lb						
KCT-1530UF	150 (5.90) × 300 (11.8)	150 (5.90)	300 (11.8)	240 (9.44)	14 (2+12) (0.55)	100 (3.93)	25 (0.98)	14 (0.55)	141 (5.55)	141 (5.55)	φ 8 (0.31)		0.20A	37kg/ 81 lb						
KCT-1535UF	150 (5.90) × 350 (13.7)	150 (5.90)	350 (13.7)	296 (11.6)	14 (2+12) (0.55)	100 (3.93)	25 (0.98)	14 (0.55)	141 (5.55)	141 (5.55)	φ 8 (0.31)		0.22A	41kg/ 90 lb						
KCT-1545UF	150 (5.90) × 450 (17.7)	150 (5.90)	450 (17.7)	408 (16.0)	14 (2+12) (0.55)	100 (3.93)	25 (0.98)	14 (0.55)	141 (5.55)	141 (5.55)	φ 8 (0.31)		0.29A	51kg/ 112 lb						
KCT-2050UF	200 (7.87) × 500 (19.6)	200 (7.87)	500 (19.6)	464 (18.2)	14 (2+12) (0.55)	120 (4.72)	16 (0.62)	20 (0.78)	170 (6.69)	170 (6.69)	φ 8 (0.31)		0.34A	76kg/ 167 lb						
KCT-2060UF	200 (7.87) × 600 (23.6)	200 (7.87)	600 (23.6)	548 (21.5)	14 (2+12) (0.55)	120 (4.72)	16 (0.62)	20 (0.78)	170 (6.69)	170 (6.69)	φ 8 (0.31)		0.47A	89kg/ 196 lb						

*If the magnetic force needs not be adjusted, use ES-M. *A cooler unit is required additionally.

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