

Electromagnetic chuck for removing distortion ACSHIM* Series

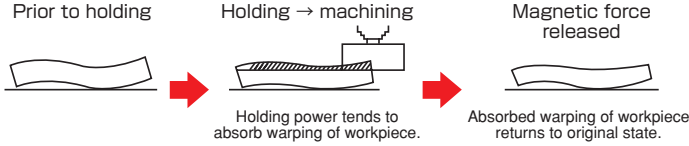
This is an epoch-making chuck that supports a distorted/warped workpiece with sticks to hold it in its natural state.

<Model KEZF-WS and KEZF-G>

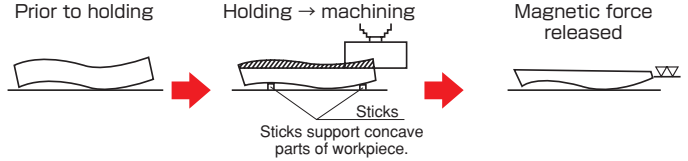
● Sticks on the work face support a distorted (warped) workpiece and hold it in a natural state. Since no measures are necessary to support such workpieces using shims, etc., the work efficiency can be improved.

● A series of operation from supporting a workpiece (raising the sticks) up to holding and securing the workpiece can be done quickly.
 ● Each stick unit (workpiece support) can be removed easily for easy maintenance.

Normal electromagnetic chuck



ACSHIM



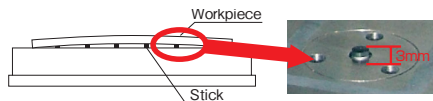
Model KEZF-WS ACSHIM* FOR PRECISION CUTTING

Environmentally friendly

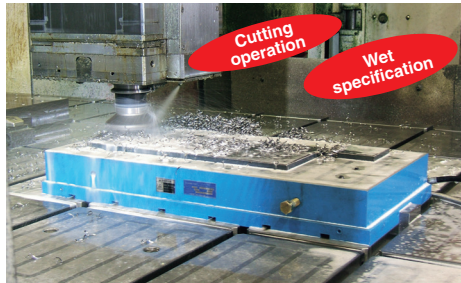
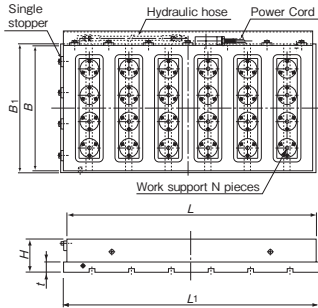


KEZF-WS4080

Chuck controller required additionally



A gap in the center of a warped workpiece that cannot be reached by shims is supported by sticks.



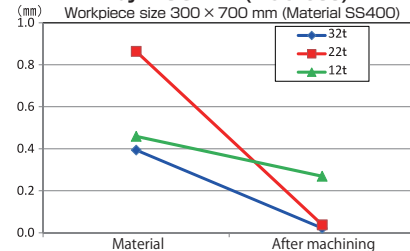
[Application]

The sticks arranged at certain pitches enable precise setting of workpieces quickly in the machining sector including mold bases in dry milling operations.

[Features]

- The precision flatness machining time can be reduced by 50%.
- The turn-over process in machining is reduced from 3 - 4 steps to 2 steps.
- The use of sticks requires no skills to machine workpieces precisely.
- Workpieces of 3 mm distortion max. can be supported.
- Most suitable for milling plates that are 20 mm or thicker.

Accuracy improvement by ACSHIM (Flatness)



Model	Nominal Size	Work Face		Mounting Face		Height	Number of Sticks	Mass	Dedicated Control Unit
		B	L	B ₁	L ₁				
KEZF-WS 3060	300 (11.8) × 600 (23.6)	300 (11.8)	600 (23.6)	310 (12.2)	620 (24.4)	30	15	130kg/286 lb	EH-VFW205A
KEZF-WS 4080	400 (15.7) × 800 (31.5)	400 (15.7)	800 (31.5)	410 (16.1)	820 (32.2)		24	230kg/507 lb	
KEZF-WS50100	500 (19.6) × 1000 (39.4)	500 (19.6)	1000 (39.4)	510 (20.0)	1020 (40.1)		40	360kg/793 lb	
KEZF-WS60100	600 (23.6) × 1000 (39.4)	600 (23.6)	1000 (39.4)	610 (24.0)	1020 (40.1)	(1.18) (4.13)	48	430kg/948 lb	EH-VFW210A

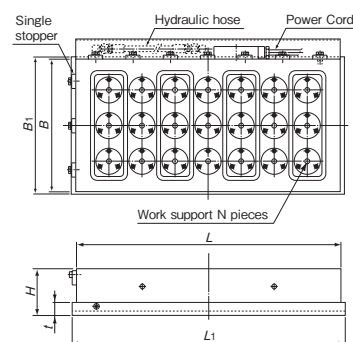
*The control unit and clamp parts are not included. The KANETEC chucks work best when a KANETEC chuck control unit is used.

Model KEZF-G ACSHIM* FOR GRINDING

Environmentally friendly



Chuck controller required additionally



Arrangement of sticks for grinding operations realized!

[Application]

Designed for grinding operations and milling operations requiring higher accuracy.

[Features]

- Deformation that occurs when light weight or thin workpieces are held can be reduced substantially.
- The amount of spring back after grinding is reduced, which contributes to improvement of finished surface accuracy.
- Wet grinding is possible.
- Workpieces of 3 mm distortion max. can be supported.
- Works well for relatively large workpieces or thin sheets (t12 or over).



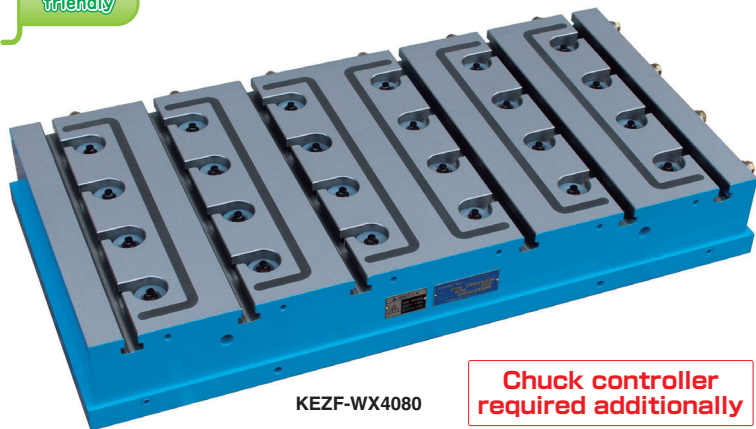
Model	Nominal Size	Work Face		Mounting Face		Height	Number of Sticks	Mass	Dedicated Control Unit
		B	L	B ₁	L ₁				
KEZF-G 3060	300 (11.8) × 600 (23.6)	300 (11.8)	600 (23.6)	310 (12.2)	620 (24.4)	30	21	130kg/286 lb	EH-VFW205A
KEZF-G 4080	400 (15.7) × 800 (31.5)	400 (15.7)	800 (31.5)	410 (16.1)	820 (32.2)		36	230kg/507 lb	
KEZF-G50100	500 (19.6) × 1000 (39.4)	500 (19.6)	1000 (39.4)	510 (20.0)	1020 (40.1)		55	360kg/793 lb	
KEZF-G60100	600 (23.6) × 1000 (39.4)	600 (23.6)	1000 (39.4)	610 (24.0)	1020 (40.1)	(1.18) (4.13)	66	430kg/948 lb	

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

Model **KEZF-WX** ELECTROMAGNETIC ACSHIM* WITH T-SLOTS

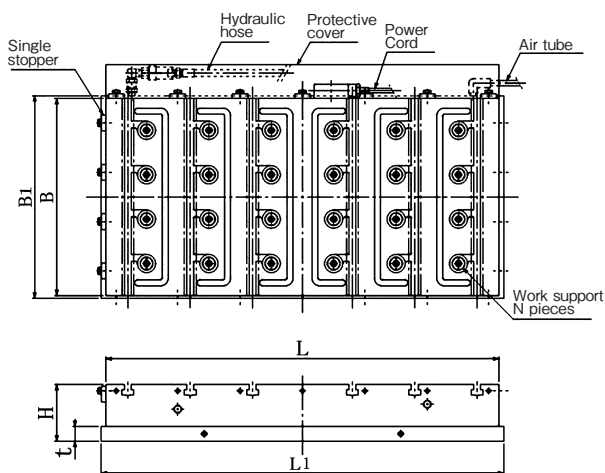
Environmentally friendly

Patented Design registered



KEZF-WX4080

Chuck controller required additionally

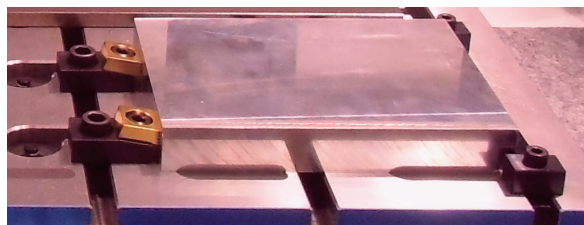


[Application]

Most suitable for precise setting of workpieces including mold bases in the milling sector.

[Features]

- The sticks on the chuck attractive face hold workpieces in the natural state.
- Compared with Model KEZF-WS, this model offers more freedom of increasing/decreasing the number of sticks.
- The elimination of the lid of the stick section has enhanced maintainability as there is no need to align the level of the body and the lid when replacing the stick unit.
- The utilization of newly installed T slots enables it to clamp nonferrous or irregular shaped workpieces.
- Workpieces of 3 mm distortion max. can be supported.
- Can be used in wet operations.



<An example of securing an aluminum plate by use of T slots.>



A new construction to prevent occurrence of stick motion failure due to chips employed.

Model	Nominal Size	Work Face		Mounting Face		Height H	Number of Sticks	Voltage	Current	Mass	Dedicated Control Unit
		B	L	B ₁	L ₁						
KEZF-WX 3060	300 (11.8) × 600 (23.6)	300 (11.8)	600 (23.6)	310 (12.2)	620 (24.4)	30 (1.18)	15	90 VDC	2.0A	140kg/ 308 lb	EH-VFW205A
KEZF-WX 4080	400 (15.7) × 800 (31.4)	400 (15.7)	800 (31.4)	410 (16.1)	820 (32.2)		24		2.3A	250kg/ 551 lb	
KEZF-WX50100	500 (19.6) × 1000 (39.3)	500 (19.6)	1000 (39.3)	510 (20.0)	1020 (40.1)		40		4.0A	390kg/ 859 lb	
KEZF-WX60100	600 (23.6) × 1000 (39.3)	600 (23.6)	1000 (39.3)	610 (24.0)	1020 (40.1)		48		6.0A	470kg/ 1036 lb	

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

Model **EH-VFW** CONTROL UNIT FOR ACSHIM* FOR HIGH-PRECISION CUTTING/GRINDING AND ELECTROMAGNETIC ACSHIM* WITH T-SLOTS

Controls ACSHIM Series precisely by simple operation!



EH-VFW205A



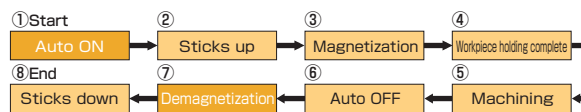
<Operation box>

[Application]

This is a dedicated unit equipped with functions to control the magnetic force of the ACSHIM and movement of sticks.

[Features]

- A series of operation can be performed automatically with the auto button on the operation box.



Model	Power Source	Rated Output		Required Air Pressure	Dimensions			Mass	Control Box		
		Voltage	Current		Width	Height	Depth		Width	Height	Depth
EH-VFW205A	Single-phase 200VAC 50/60Hz	0-90 VDC	5A	0.3-0.5MPa	600 (23.6)	500 (19.6)	250 (9.84)	40kg/ 88 lb	180 (7.08)	180 (7.08)	70 (2.75)
EH-VFW210A			10A		700 (27.5)	600 (23.6)	300 (11.8)				

ELECTROMAGNETIC CHUCKS
CHUCK CONTROLLERS
PERMANENT ELECTROMAGNETIC CHUCKS
PERMANENT ELECTROMAGNETIC CHUCKS
BLOCKS FOR MC
VACUUM CHUCKS
PROMELTA* SYSTEM
SINE BAR CHUCKS
BLOCKS HOLDERS, MINI CHUCKS
HOLDING TOOLS
MEASURING TOOL HOLDERS
MAGNETIC HOLDERS
MAGNETIC TOOLS

ELECTROMAGNETIC CHUCKS

Model KEZX SUPER POWERFUL ELECTROMAGNETIC CHUCK WITH T-SLOTS

Environmentally friendly

Chuck controller required additionally

[Application]

A super powerful electromagnetic chuck having T-slots for heavy duty cutting. A range of workpieces that can be held has been expanded by a combination of a quick working magnet system and clamps by use of T-grooves.

As the mechanical clamping mechanism is incorporated, irregularly shaped workpieces and nonmagnetic workpieces that cannot be held by normal electromagnetic chucks can be held easily.

When clamping a nonmagnetic workpiece, such work as demounting the electromagnetic chuck from the machine table can be eliminated.

Model KEZX comes both in the flat type and vertical type.

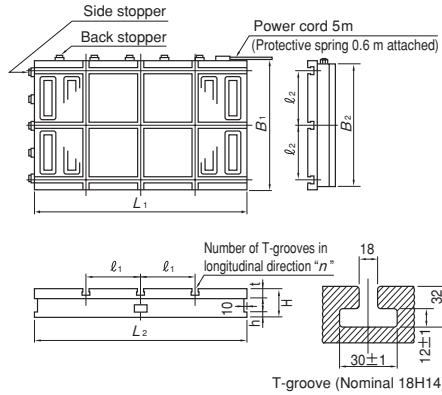
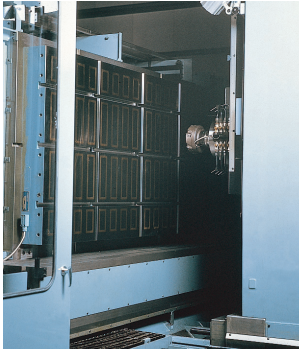
[Features]

- Super powerful electromagnetic chuck specially designed for heavy duty cutting.
- Small and irregularly shaped workpieces can be held firmly by a combination of a magnet and clamping by use of T-slots.
- Since a nonmagnetic workpiece can be secured by clamping by use of T-slots, such steps as mounting and demounting the electromagnetic chuck to and from the machine table are not required.
- With the vertical type, effective usage of T-grooves with the magnetic force of the electromagnetic chuck reduced (or turned off completely) facilitates positioning of the workpiece or obtaining the reference plane.
- Workpieces having a small attractive face area can also be clamped firmly.



KEZX-60100B

An example of vertical usage



[mm(in)]

Model	Nominal Size	Work Face					Number of T-slots		Mounting Face			Height	Voltage	Current	Mass	Electro Chuck Master	
		B ₁	L ₁	t	l ₁	l ₂	X	Y	B ₂	L ₂	h						
KEZX-50100B	500(19.6) × 1000(39.4)	500(19.6)	1000(39.4)	50(1.96)	242(9.52)	200(7.87)	3	3	490(19.2)	1000(39.4)	20(0.78)	130(5.11)	90 VDC	4.2A	442kg/ 974 lb	5A Series	
KEZX-50150B	500(19.6) × 1500(59.0)		1500(59.0)		238(9.36)					5						1500(59.0)	EH-VE210D
KEZX-60100B	600(23.6) × 1000(39.4)		600(23.6)		1000(39.4)					242(9.52)						250(9.84)	3

※ "5A Series" refers to Chuck Masters in general the rated output current of which is 5A. ※ The chuck controller and clamp parts are not included. The KANETEC chucks work best when a KANETEC chuck controller is used.

Model KETZ SUPER POWERFUL ELECTROMAGNETIC CHUCK

Environmentally friendly

Chuck controller required additionally

[Application]

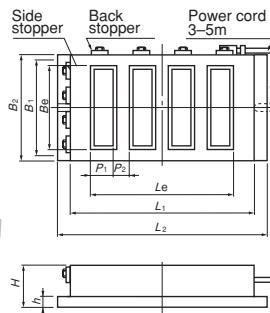
Designed for heavy duty cutting by a milling machine and planomiller. Most suitable for powerful chucking of thick workpieces and high-speed cutting where a large cutting force is exerted.

[Features]

- Super powerful electromagnetic chucks specially designed for heavy duty cutting.
- Various measures provided for easy mounting, easy wiring and quick elimination of residual magnetism.
- Very effective holding power for workpieces that are 15 mm or thicker and sized 140×140 mm or larger.



KETZ-2550B



[mm(in)]

Model	Nominal Size	Work Face				Pole Pitch		No. of Poles	Mounting Face			Height	Mounting Hole	Voltage	Current	Mass	Electro Chuck Master	Remarks
		B ₁	L ₁	L _e	B _e	P ₁	P ₂		B ₂	L ₂	h							
KETZ- 1530B	150(5.90) × 300(11.8)	150(5.90)	300(11.8)	240(9.44)	90(3.54)	228(8.97)	—	1	156(6.14)	350(13.7)	18(0.70)	90(3.54)	14	0.45A	28kg/ 61lb	※ES-M103B ES-M305B EH-V305A EH-VE305A	※For types with a combination of a rectifier and demagnetizer, see pages of "Chuck Controllers."	
KETZ- 1545B	150(5.90) × 450(17.7)	150(5.90)	450(17.7)	390(15.3)	90(3.54)	378(14.8)	—	1	156(6.14)	500(19.6)	18(0.70)	90(3.54)	14	0.66A	42kg/ 92lb			
KETZ- 2050B	200(7.87) × 500(19.6)	200(7.87)	500(19.6)	422(16.6)	160(6.29)	62(2.44)	54(2.12)	4	206(8.10)	520(20.4)	20(0.78)	100(3.93)	14	0.90A	68kg/ 149lb			
KETZ- 2060B	200(7.87) × 600(23.6)	200(7.87)	600(23.6)	520(20.4)	160(6.29)	60(2.36)	52(2.04)	5	206(8.10)	620(24.4)	20(0.78)	100(3.93)	14	0.95A	79kg/ 174lb			
KETZ- 2080B	200(7.87) × 800(31.5)	200(7.87)	800(31.5)	718(28.2)	160(6.29)	58(2.28)	50(1.96)	7	206(8.10)	820(32.2)	20(0.78)	100(3.93)	14	1.42A	115kg/ 253lb			
KETZ- 2550B	250(9.84) × 500(19.6)	250(9.84)	500(19.6)	422(16.6)	200(7.87)	62(2.44)	54(2.12)	4	256(10.0)	520(20.4)	20(0.78)	110(4.33)	14	1.16A	94kg/ 207lb			
KETZ- 2560B	250(9.84) × 600(23.6)	250(9.84)	600(23.6)	520(20.4)	200(7.87)	60(2.36)	52(2.04)	5	256(10.0)	620(24.4)	20(0.78)	110(4.33)	14	1.26A	118kg/ 260lb			
KETZ- 3060B	300(11.8) × 600(23.6)	300(11.8)	600(23.6)	520(20.4)	240(9.44)	67(2.63)	56(2.20)	5	306(12.0)	920(36.2)	20(0.78)	110(4.33)	14	1.64A	143kg/ 315lb			
KETZ- 3090B	300(11.8) × 900(35.4)	300(11.8)	900(35.4)	817(32.1)	240(9.44)	67(2.63)	56(2.20)	7	306(12.0)	920(36.2)	20(0.78)	110(4.33)	14	3.04A	203kg/ 447lb			
KETZ- 4080B	400(15.7) × 800(31.5)	400(15.7)	800(31.5)	718(28.2)	340(13.3)	58(2.28)	50(1.96)	7	410(16.1)	820(32.2)	20(0.78)	110(4.33)	14	3.23A	240kg/ 529lb			
KETZ-60100B	600(23.6) × 1000(39.4)	600(23.6)	1000(39.4)	917(36.1)	430(16.9)	55(2.16)	—	8	510(20.0)	1020(40.1)	20(0.78)	110(4.33)	14	3.69A	300kg/ 661lb			
KETZ-50100B	500(19.6) × 1000(39.4)	500(19.6)	1000(39.4)	917(36.1)	430(16.9)	55(2.16)	—	8	510(20.0)	1020(40.1)	20(0.78)	110(4.33)	14	3.95A	375kg/ 826lb			
⊙KETZ-50150C	500(19.6) × 1500(59.0)	500(19.6)	750(29.5) × 2	1417(55.7)	430(16.9)	65(2.55)	52(2.04)	6 × 2	200(7.87)	1520(59.8)	20(0.78)	110(4.33)	14	2.69A × 2	552kg/ 1217lb			
KETZ-60100B	600(23.6) × 1000(39.4)	600(23.6)	1000(39.4)	917(36.1)	530(19.3)	55(2.16)	—	8	610(24.0)	1020(40.1)	20(0.78)	110(4.33)	14	5.30A	414kg/ 912lb			
⊙KETZ-60150C	600(23.6) × 1500(59.0)	600(23.6)	750(29.5) × 2	1412(55.5)	530(19.3)	52(2.04)	—	6 × 2	240(9.4)	1520(59.8)	20(0.78)	110(4.33)	14	3.51A × 2	650kg/ 1433lb			

※ The power cord is 3 m for KETZ-1530B and 1545B and 5 m for others. ※ If the magnetic force needs not be adjusted, use ES-M. ※ Sizes not listed above are also available.

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

※ The models marked by ⊙ are of duplex type. Please provide information such as a center connecting hole position. Also the terminal box TB-2PD is required for connection to the Chuck Master.

Model KETN POWERFUL WAVEFORM ELECTROMAGNETIC CHUCK

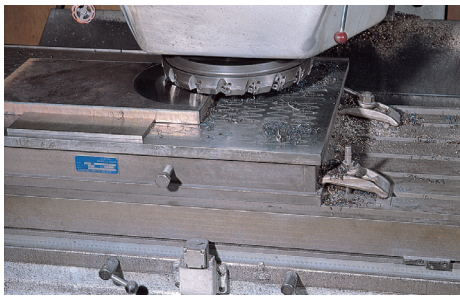
Environmentally friendly



KETN-4080A

Chuck controller required additionally

An example of mounting on machine

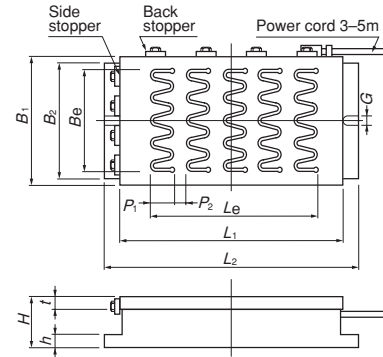


[Application]

A chuck for cutting by a milling machine, planomiller, etc. The wavy pattern of the separator helps distribute the magnetic force uniformly over the whole attractive surface and increases the overall magnetic force. Thus, this is a general-purpose chuck for a wide range of cutting applications.

[Features]

- Electromagnetic chucks generating strong holding power specially for cutting operations.
- Specially designed to minimize influence of magnetism on cutters.
- For heavy duty cutting, Model KETZ, super powerful electromagnetic chuck, is available, but this model has a wider application range that includes workpieces thinner than 15 mm, for which Model KETZ is not suitable.



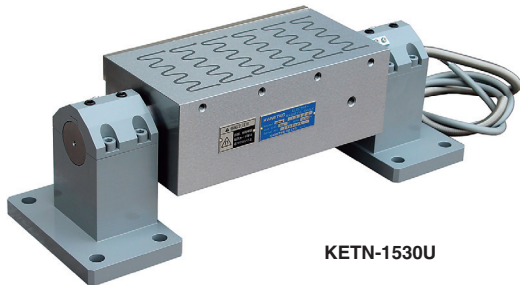
Model	Nominal Size	Work Face					Pole Pitch		Mounting Face		Height	Mounting Hole	Voltage	Current	Mass	Electro Chuck Master	Remarks
		B ₁	L ₁	t	B _e	L _e	P ₁	P ₂	B ₂	L ₂							
KETN- 1530A	150(5.90) × 300(11.8)	150(5.90)	300(11.8)	20	112(4.40)	248(9.76)	28 (1.10)										
KETN- 1545A	150(5.90) × 450(17.7)		450(17.7)	(0.78)		404(15.9)	26 (1.02)										
KETN- 2050A	200(7.87) × 500(19.6)		500(19.6)			440(17.3)	22 (0.86)										
KETN- 2060A	200(7.87) × 600(23.6)	200(7.87)	600(23.6)		152(5.98)	523(20.5)	22.5(0.88)										
KETN- 2550A	250(9.84) × 500(19.6)	250(9.84)	500(19.6)		208(8.18)	440(17.3)	22 (0.86)										
KETN- 3060A	300(11.8) × 600(23.6)		600(23.6)			523(20.5)	22.5(0.88)										
KETN- 3080A	300(11.8) × 800(31.5)	300(11.8)	800(31.5)	25	246(9.68)	722(28.4)	26 (1.02)	(0.62)									
KETN-30100A	300(11.8) × 1000(39.4)		1000(39.4)	(0.98)		919(36.1)	26.5(1.04)										
KETN- 4080A	400(15.7) × 800(31.5)		800(31.5)			722(28.4)	25 (0.98)										
KETN-40100A	400(15.7) × 1000(39.4)	400(15.7)			342(13.4)	919(36.1)	26.5(1.04)										
KETN-50100A	500(19.6) × 1000(39.4)	500(19.6)	1000(39.4)		432(17.0)	920(36.2)	23 (0.90)										
KETN-60100A	600(23.6) × 1000(39.4)	600(23.6)			522(20.5)	924(36.3)	31 (1.22)										

※The power cord is 3 m for KETN-1530A and 1545A and 5 m for other models. ※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.

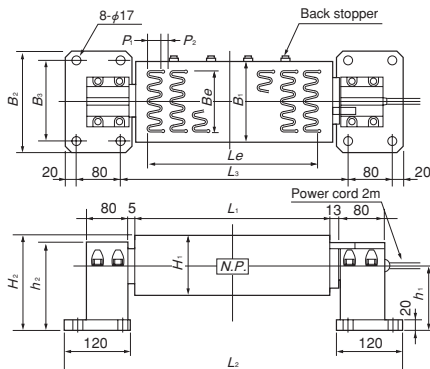
Model KETN-U POWERFUL TILT TYPE ELECTROMAGNETIC CHUCK

Chuck controller required additionally

Environmentally friendly



KETN-1530U



[Application]

Suitable for heavy duty grinding and light duty cutting of inclined surfaces of jigs/ fixtures and metal molds.

[Features]

- Strong holding power.
- Easy mounting and an angle can be set as desired in a range of 90° forward and 90° backward.
- The rotary shaft with scale facilitates angle setting.

Model	Nominal Size	Work Face					Pole Pitch		Tilt Base				Length	Height	Voltage	Current	Mass	Electro Chuck Master	Remarks
		B ₁	L ₁	B _e	L _e	H ₁	P ₁	P ₂	B ₂	B ₃	L ₃	h ₁							
KETN-1530U	150(5.90) × 300(11.8)	150	300(11.8)	116	248(9.76)	28 (1.10)													
KETN-1545U	150(5.90) × 450(17.7)	(5.90)	450(17.7)	(4.56)	404(15.9)	110	26 (1.02)	16	190	150	352(13.8)	120	163	702(27.6)	175	0.49A	56kg/123 lb	ES-M103B	※For types with a combination of a rectifier and demagnetizer, see pages of "Chuck Controllers."
KETN-2050U	200(7.87) × 500(19.6)	200	500(19.6)	152	440(17.3)	(4.33)	22 (0.86)	(0.62)	(7.48)	(5.90)	502(19.7)	(4.72)	(6.41)	752(29.6)	(6.89)	0.83A	72kg/158 lb	ES-M305B	
KETN-2060U	200(7.87) × 600(23.6)	(7.87)	600(23.6)	(5.98)	530(20.8)		22.5(0.88)				552(21.7)			852(33.5)		1.26A	96kg/211 lb	EH-V305A	
											652(25.6)					1.17A	110kg/242 lb	EH-VE305A	

※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.
 ※The scaled ring can be used to set an angle roughly. When it is necessary to set the angle accurately, use a sine bar or other suitable device.

ELECTROMAGNETIC CHUCKS
 CHUCK CONTROLLERS
 PERMANENT ELECTROMAGNETIC CHUCKS
 PERMANENT ELECTROMAGNETIC CHUCKS
 MAGNETIC CHUCKS
 BLOCKS FOR MC
 VACUUM CHUCKS
 PROMELTA* SYSTEM
 SINE BAR CHUCKS
 BLOCKS HOLDERS, MINI CHUCKS
 HOLDING TOOLS
 MEASURING TOOL HOLDERS
 MAGNETIC HOLDERS
 MAGNETIC TOOLS

ELECTROMAGNETIC CHUCKS

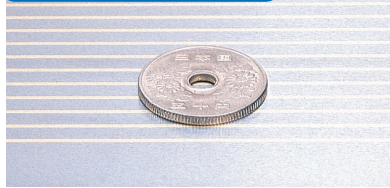
Model KESL LATERAL FINE PITCH ELECTROMAGNETIC CHUCK



KESL-1535A-1

Chuck controller required additionally

Pitches for comparison

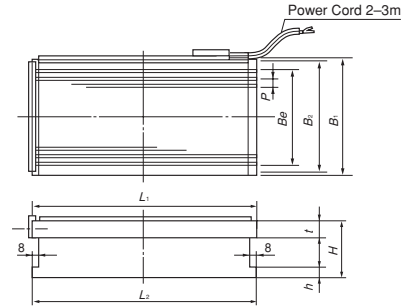


[Application]

These are versatile electromagnetic chucks with poles in the longitudinal direction capable of holding workpieces, thin and thick, in grinding and light duty cutting. In particular, these chucks are suitable for grinding and light duty cutting of long thin workpieces and buff and belt grinding of large quantities of workpieces, which are difficult to hold by standard type electromagnetic chucks.

[Features]

- A fine pole pattern is arranged in the longitudinal direction.
- The N-S magnetic force lines are spaced relatively wide for good holding via a belt. (Note, however, that because the distribution of the holding power is not uniform, this model may not be suitable for grinding small workpieces arranged over the whole surface.)
- Powerful holding, but low height.



[mm (in)]

Model	Nominal Size	Work Face				Pole Pitch	Mounting Face				Height	Voltage	Current	Power Cord	Mass	Electro Chuck Master
		B ₁	L ₁	t	B _e		B ₂	L ₂	h	H						
KESL-1025A-1	100 (3.93) × 250 (9.84)	100 (3.93)			77 (3.03)	98 (3.85)				70 (2.75)	90 VDC	0.36A	2m (78.7)	12kg / 26 lb	ES-M103B ES-M305B EH-V305A EH-VE305A	
KESL-1325A-1	125 (4.92) × 250 (9.84)	125 (4.92)	250 (9.84)		101 (3.97)	123 (4.84)	250 (9.84)					0.26A		14kg / 31 lb		
KESL-1530A-1	150 (5.90) × 300 (11.8)		300 (11.8)				300 (11.8)					0.48A		19kg / 42 lb		
KESL-1535A-1	150 (5.90) × 350 (13.7)	150 (5.90)	350 (13.7)	20 (0.78)	125 (4.92)	148 (5.82)	350 (13.7)					0.61A	23kg / 51 lb			
KESL-1545A-1	150 (5.90) × 450 (17.7)		450 (17.7)				450 (17.7)					0.85A	29kg / 64 lb			
KESL-2040A-1	200 (7.87) × 400 (15.7)		400 (15.7)				400 (15.7)					1.08A	34kg / 75 lb			
KESL-2050A-1	200 (7.87) × 500 (19.6)	200 (7.87)	500 (19.6)		173 (6.81)	198 (7.79)	500 (19.6)					1.50A	42kg / 93 lb			
KESL-2060A-1	200 (7.87) × 600 (23.6)		600 (23.6)				600 (23.6)					1.60A	51kg / 113 lb			
KESL-2550A-1	250 (9.84) × 500 (19.6)	250 (9.84)	500 (19.6)	27 (1.06)	225 (8.85)	248 (9.76)	500 (19.6)		85 (3.34)			1.64A	62kg / 137 lb			
KESL-3060A-1	300 (11.8) × 600 (23.6)	300 (11.8)	600 (23.6)		273 (10.7)	298 (11.7)	600 (23.6)					1.70A	98kg / 216 lb			

※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.

Model KETW-N ELECTROMAGNETIC MICROPITCH CHUCK

Environmentally friendly



KETW-N1530

Chuck controller required additionally

[Information]

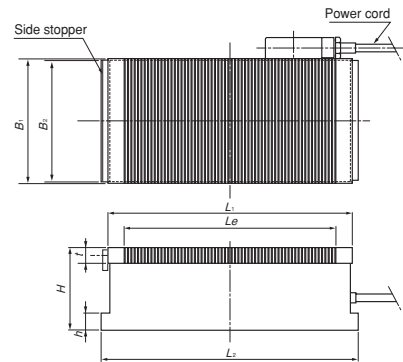
For small and thin workpieces, the permanent magnetic micropitch chuck is recommended. See Model RMWH.

[Application]

Suitable for grinding and cutting of thin workpieces. However, workpieces should have an attractive face longer than 80 mm in the longitudinal direction.

[Features]

- In addition to grinding of thin workpieces that meet the above conditions, this model is also suitable for cutting.
- A resin-bonded structural face plate having little environmental burden is employed.



[mm (in)]

Model	Nominal Size	Work Face				Pole Pitch	Mounting Face			Height	Mounting Hole	Voltage	Current	Power Cord	Mass	Electro Chuck Master	Remarks
		B ₁	L ₁	t	L _e		B ₂	L ₂	h								
KETW-N1530	150 (5.90) × 300 (11.8)	300 (11.8)		245 (9.64)		146 (5.74)	314 (12.3)		100 (3.93)	Clamping	90 VDC	0.4A	2m (78.7)	31kg / 68 lb	ES-M103B ES-M305B EH-V305A EH-VE305A		
KETW-N1535	150 (5.90) × 350 (13.7)	350 (13.7)	19 (0.75)	293 (11.5)		364 (14.3)						0.45A		36kg / 79 lb			
KETW-N1545	150 (5.90) × 450 (17.7)	450 (17.7)		397 (15.6)		464 (18.2)						0.62A		46kg / 101 lb			
KETW-N2040	200 (7.87) × 400 (15.7)	400 (15.7)		349 (13.7)	4 (0.8+3.2) (0.15)	196 (7.71)	414 (16.3)	20 (0.78)				0.7A	65kg / 144 lb				
KETW-N2050	200 (7.87) × 500 (19.6)	200 (7.87)	500 (19.6)				514 (20.2)					0.8A	82kg / 180 lb				
KETW-N2060	200 (7.87) × 600 (23.6)		600 (23.6)									0.92A	98kg / 216 lb				
KETW-N2560	250 (9.84) × 600 (23.6)	250 (9.84)	600 (23.6)	549 (21.6)		246 (9.68)	614 (24.1)		120 (4.72)			1.2A	123kg / 271 lb				
KETW-N3060	300 (11.8) × 600 (23.6)	300 (11.8)				296 (11.4)		300 (11.8)				1.56A	147kg / 324 lb				

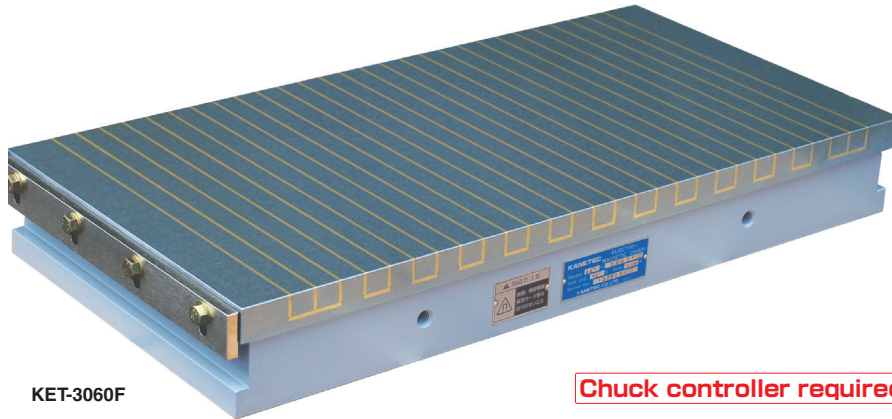
※If the magnetic force needs not be adjusted, use ES-M.

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

Model **KET**

STANDARD RECTANGULAR ELECTROMAGNETIC CHUCK

Environmentally friendly



KET-3060F

Chuck controller required additionally

[Application]

Most widely used electromagnetic chucks for grinding operations.

[Features]

High rigidity, high reliability and high accuracy!

KANETEC's original machining technology is used to realize a lavish body-to-case one piece hollow construction, instead of a welded construction, to enhance the rigidity, minimize secular change and improve accuracy of the chucks.

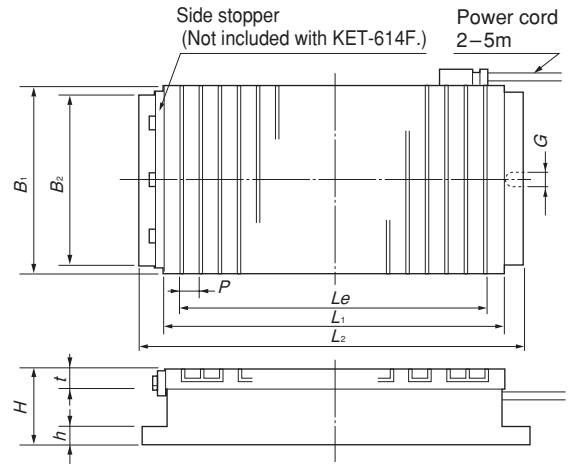
KANETEC's original light weight design!

The chuck weight has been reduced as much as possible in consideration of driving the table of grinders. This design helps contribute to a longer service life of grinders.

Simple thin type yet strong holding power!

The chucks have been designed as low as possible to increase a workpiece mounting space on the grinder. The overall height is as short as 70 mm to 80 mm for small and medium types and 85 mm for large types, thus various types of workpieces can be held. Though thin, KANETEC's original design to secure an electromagnetic coil space ensures strong holding power.

Resin-bonded structural face plate having little environmental burden employed!



[mm (in)]

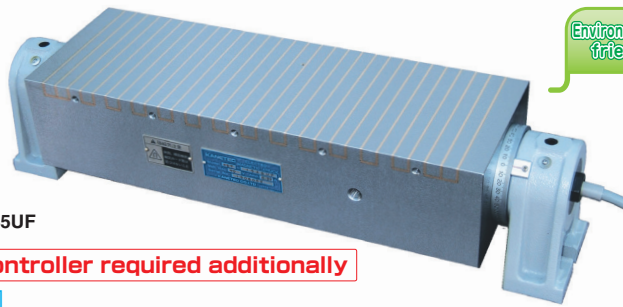
Model	Nominal Size	Work Face				Pole Pitch	Mounting Face			Height	Mounting Hole	Voltage	Current	Power Cord	Mass	Electro Chuck Master	Remarks
		B ₁	L ₁	t	L _e		B ₂	L ₂	h								
KET- 614F	60(2.36) x 140(5.51)	63(2.48)	140(5.51)	13(0.51)	106(4.17)	8(2+6)(0.31)	60(2.36)	170(6.69)	12(0.47)	67(2.63)	8	0.12A		3.5kg/ 7 lb			
KET- 1025F	100(3.93) x 250(9.84)	100(3.93)	250(9.84)		211(8.30)	11(2+9)(0.43)	96(3.78)	294(11.5)			10	0.16A		12kg/ 26 lb			
KET- 1325F	125(4.92) x 250(9.84)	125(4.92)	250(9.84)		212(8.34)		119(4.68)	294(11.5)				0.19A	2m(78.7)	15kg/ 33 lb			
KET- 1530F	150(5.90) x 300(11.8)		300(11.8)		240(9.44)			344(13.5)				0.20A		21kg/ 46 lb			
KET- 1535F	150(5.90) x 350(13.7)	150(5.90)	350(13.7)		296(11.6)		144(5.66)	394(15.5)	18(0.70)	70(2.75)	14	0.22A		25kg/ 55 lb			
KET- 1545F	150(5.90) x 450(17.7)		450(17.7)		408(16.0)	14(2+12)(0.55)		494(19.4)				0.29A		32kg/ 70 lb			
KET- 2040F	200(7.87) x 400(15.7)		400(15.7)		352(13.8)			444(17.4)				0.43A		38kg/ 83 lb			
KET- 2050F	200(7.87) x 500(19.6)	200(7.87)	500(19.6)		464(18.2)		194(7.63)	544(21.4)				0.34A		47kg/ 103 lb			
KET- 2060F	200(7.87) x 600(23.6)		600(23.6)		548(21.5)			600(23.6)				0.47A		57kg/ 125 lb			
KET- 2550F	250(9.84) x 500(19.6)		500(19.6)		451(17.7)			500(19.6)				0.56A		67kg/ 147 lb			
KET- 2560F	250(9.84) x 600(23.6)	250(9.84)	600(23.6)		529(20.8)		240(9.44)	600(23.6)				0.72A	3m(118)	80kg/ 176 lb	ES-M103B	For types with a rectifier and demagnetizer, see pages of "Chuck Controllers." P17—P20	
KET- 3050F	300(11.8) x 500(19.6)		500(19.6)		451(17.7)			500(19.6)		80(3.15)		0.68A			ES-M305B		
KET- 3060F	300(11.8) x 600(23.6)	300(11.8)	600(23.6)		529(20.8)		290(11.4)	600(23.6)				1.06A		94kg/ 207 lb	EH-V305A		
KET- 3090F	300(11.8) x 900(35.4)		900(35.4)		841(33.1)			900(35.4)				1.22A	5m(196)	145kg/ 319 lb			
KET- 4050F	400(15.7) x 500(19.6)		500(19.6)		451(17.7)			500(19.6)				0.96A		114kg/ 251 lb			
KET- 4060F	400(15.7) x 600(23.6)		600(23.6)		529(20.8)		390(15.3)	600(23.6)				1.09A	3m(118)	137kg/ 302 lb			
KET- 4080F	400(15.7) x 800(31.5)	400(15.7)	800(31.5)		724(28.5)			800(31.5)				1.42A		182kg/ 401 lb			
KET-40100F	400(15.7) x 1000(39.4)		1000(39.4)		958(37.7)	19.5(2.5+17)(0.76)		1000(39.4)	20(0.78)			1.74A	5m(196)	228kg/ 502 lb			
KET- 5050F	500(19.6) x 500(19.6)		500(19.6)	25(0.98)	451(17.7)			500(19.6)				0.93A		142kg/ 313 lb			
KET- 5060F	500(19.6) x 600(23.6)		600(23.6)		529(20.8)			600(23.6)		85(3.34)		1.06A	3m(118)	171kg/ 377 lb			
KET- 5065F	500(19.6) x 650(25.5)	500(19.6)	650(25.5)		607(23.9)		490(19.2)	650(25.5)				1.30A		185kg/ 407 lb			
KET-50100F	500(19.6) x 1000(39.4)		1000(39.4)		958(37.7)			1000(39.4)				1.71A	5m(196)	285kg/ 628 lb			
KET- 6060F	600(23.6) x 600(23.6)		600(23.6)		529(20.8)			600(23.6)				1.48A	3m(118)	205kg/ 451 lb			
KET-60100F	600(23.6) x 1000(39.4)	600(23.6)	1000(39.4)		958(37.7)		590(23.2)	1000(39.4)				3.10A	5m(196)	342kg/ 754 lb	Above models except for the one marked by ※.		
KET- 7075F	700(27.5) x 750(29.5)	700(27.5)	750(29.5)		685(26.9)		690(27.1)	750(29.5)				2.87A	3m(118)	299kg/ 659 lb			
KET-80100F	800(31.5) x 1000(39.4)	800(31.5)	1000(39.4)		958(37.7)		790(31.1)	1000(39.4)				4.23A	5m(196)	456kg/1005 lb			

※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. ※Except for KET-614F, only the side stopper is included. (The back stopper is not included.) ※Chucks for electric discharge machining are also available. Please contact us. (Model KET-ED)

ELECTROMAGNETIC CHUCKS
CHUCK CONTROLLERS
PERMANENT ELECTROMAGNETIC CHUCKS
PERMANENT ELECTROMAGNETIC CHUCKS
BLOCKS FOR MC
VACUUM CHUCKS
PROMELTA* SYSTEM
SINE BAR CHUCKS
BLOCKS HOLDERS, MINI CHUCKS
HOLDING TOOLS
MEASURING TOOL HOLDERS
MAGNETIC HOLDERS
MAGNETIC TOOLS

ELECTROMAGNETIC CHUCKS

Model KET-U TILT TYPE ELECTROMAGNETIC CHUCK



KET-1545UF

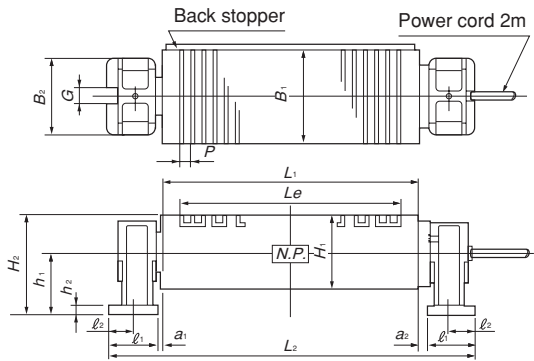
Chuck controller required additionally

[Application]

Suitable for grinding inclined faces of jigs/fixtures and metal molds.

[Features]

- Easy mounting and an angle can be set as desired in a range of 90° forward and 90° backward.
- The rotary shaft with scale facilitates angle setting.
- 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	Voltage	Current	Mass	Electro Chuck Master	Remarks	
		B ₁	L ₁	L _e	H ₁	P	B ₂	ℓ ₁	ℓ ₂	G	h ₁	h ₂								a ₁
KET-614UF	60 (2.36) × 140 (5.51)	60 (2.36)	140 (5.51)	106 (4.17)	60 (2.36)	8 (2+6) (0.31)	60 (2.36)	48 (1.89)	20 (0.78)	8.5 (0.33)	55 (2.1)	13 (0.51)	4 (0.15)	12 (0.47)	242 (9.52)	85 (3.34)	90 VDC	0.09A	4kg/ 8 lb	ES-M103B ES-M305B EH-V305A EH-VE305A P17-P20
KET-1025UF	100 (3.93) × 250 (9.84)		250 (9.84)	211 (8.30)										382 (15.0)	125 (4.92)		0.16A	21kg/ 46 lb		
KET-1030UF	100 (3.93) × 300 (11.8)	100 (3.93)	300 (11.8)	255 (10.0)		11 (2+9) (0.31)	95 (3.74)				75 (2.95)	16 (0.62)		432 (17.0)			0.21A	23kg/ 50 lb		
KET-1040UF	100 (3.93) × 400 (15.7)		400 (15.7)	365 (14.3)										532 (20.9)			0.26A	30kg/ 66 lb		
KET-1230UF	120 (4.72) × 300 (11.8)	120 (4.72)	300 (11.8)	240 (9.44)	100 (3.93)		54 (2.12)	25 (0.98)	14 (0.55)					432 (17.0)			0.21A	29kg/ 64 lb		
KET-1530UF	150 (5.90) × 300 (11.8)		300 (11.8)	240 (9.44)													0.20A	37kg/ 81 lb		
KET-1535UF	150 (5.90) × 350 (13.7)	150 (5.90)	350 (13.7)	296 (11.6)		14 (2+12) (0.55)	100 (3.93)			91 (3.58)	18 (0.70)	8 (0.31)	16 (0.62)	482 (18.9)	141 (5.55)		0.22A	41kg/ 90 lb		
KET-1545UF	150 (5.90) × 450 (17.7)		450 (17.7)	408 (16.0)										582 (22.9)			0.29A	51kg/ 112 lb		
KET-2050UF	200 (7.87) × 500 (19.6)	200 (7.87)	500 (19.6)	464 (18.2)			120 (4.72)	59 (2.32)		16 (0.62)	120 (4.72)	20 (0.78)		642 (25.2)	170 (6.69)		0.34A	76kg/ 167 lb		
KET-2060UF	200 (7.87) × 600 (23.6)		600 (23.6)	548 (21.5)										742 (29.2)			0.47A	89kg/ 196 lb		

※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.
 ※The scaled ring can be used to set an angle roughly. When it is necessary to set the angle accurately, use a sine bar or other suitable device.

Model KEZ-H ELECTROMAGNETIC CHUCK WITH HARD ATTRACTIVE FACE



KEZ-H1138UF

Chuck controller required additionally

[Application]

Suitable for grinding inclined faces of jigs/fixtures and metal molds.

[Features]

- An electromagnetic chuck with a hardened attractive face. The face plate is less susceptible to damage and the frequency of self-grinding can be reduced. Also for self-grinding, the grinding wheel needs not be replaced, thus shortening the setup time.
- A resin-bonded structural face plate having little environmental burden is employed.

※The chuck controller and clamp parts are not included.
 The maximum performance can be obtained by using the Chuck Master Model EH-V.

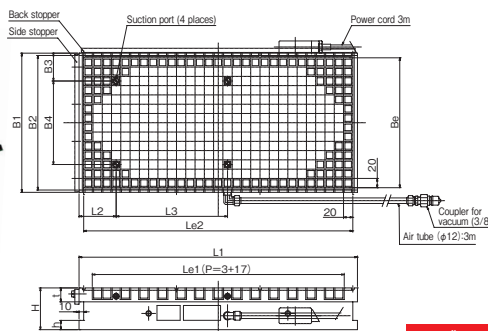
Model KETV ELECTROMAGNETIC CHUCK WITH VACUUM CHUCK FUNCTION



KETV-3060F

Chuck controller required additionally

Vacuum system required additionally



[Application]

An electromagnetic chuck with a vacuum chuck function of grid seal type added. The vacuum chuck function enables it to hold nonmagnetic workpieces also.

[Features]

- The height has been reduced by 35 mm.
- The vacuum chuck can be configured to a desired usage area using seal rubber.
- Since vacuum is maintained by use of seal rubber, a high degree of vacuum can be maintained even when workpieces are slightly warped.
- Usable in wet operations.
- A resin-bonded structural face plate having little environmental burden is employed.

See "Vacuum Chucks" on pages P43 to P46 also.

[mm (in)]

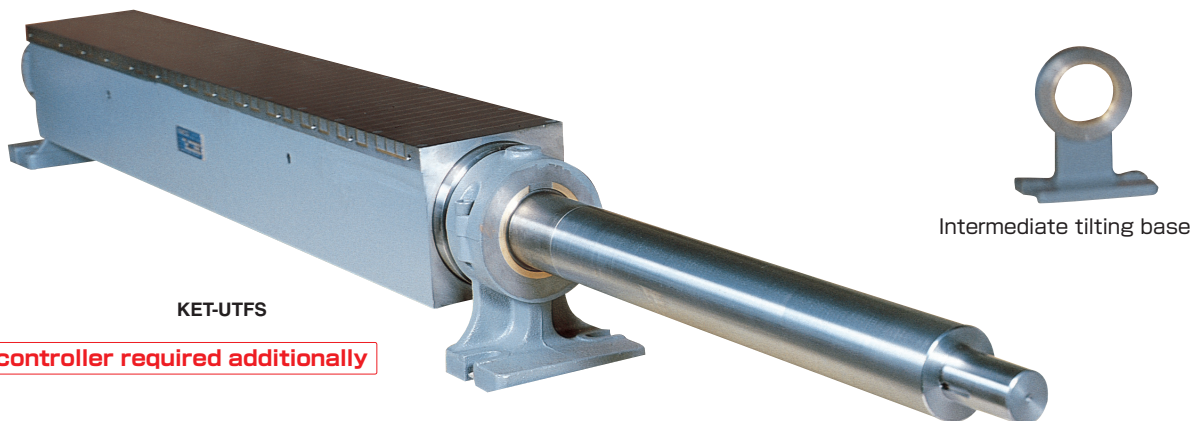
Model	Nominal Size	Work Face										Pole pitch		Mounting Face		Height	Grid Pitch	Voltage	Current	Mass	Applicable Vacuum System
		B ₁	L ₁	t	L _{e1}	L _{e2}	L _s	L ₃	B _e	B ₃	B ₄	P	B ₂	h	H						
KETV-3060F	300 (11.8) × 600 (23.6)	300 (11.8)	600 (23.6)	30 (1.18)	543 (21.3)	580 (22.8)		240 (9.44)	280 (11.0)		180 (7.08)		290 (11.4)		90 (3.54)	20 (0.78)	90 VDC				VPU-D20 VPU-E10 VPU-E20
KETV-4080F	400 (15.7) × 800 (31.5)	400 (15.7)	800 (31.5)		743 (29.2)	780 (30.7)	80 (3.14)	320 (12.5)	380 (14.9)	60 (2.36)	280 (11.0)		390 (15.3)	20 (0.78)							
KETV-50100F	500 (19.6) × 1000 (39.4)	500 (19.6)	1000 (39.4)	31.5 (1.24)	943 (37.1)	980 (38.5)		440 (17.3)	480 (18.8)		380 (14.9)		490 (7.08)		91 (3.58)						
KETV-60100F	600 (23.6) × 1000 (39.4)	600 (23.6)	1000 (39.4)						480 (18.8)		480 (18.8)		590 (23.2)								

※Seal rubber φ6, 10 m is included. ※The chuck controller and vacuum system are not included. ※The KANETEC chucks work best when a KANETEC chuck controller is used.

ELECTROMAGNETIC CHUCK CONTROLLERS; PERMANENT MAGNETIC CHUCKS; PERMANENT MAGNETIC CHUCKS; BLOCKS FOR MC; VACUUM CHUCKS; PROMELTA; SINE BAR CHUCKS; BLOCKS HOLDERS; HOLDING TOOLS; MEASURING TOOL HOLDERS; MAGNETIC TOOLS

Model **KET-UTS** LARGE CONNECTING TILT TYPE ELECTROMAGNETIC CHUCK

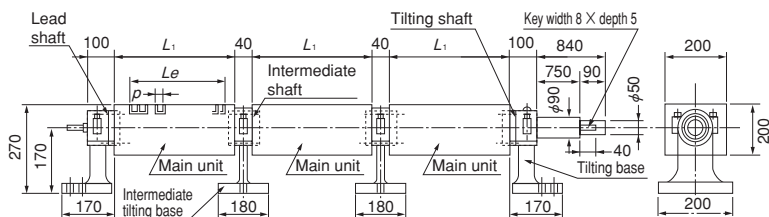
Environmentally friendly



KET-UTFS

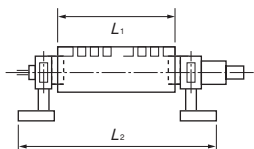
Chuck controller required additionally

Fig. 1



(The above figure shows 3 standard units connected.)

Fig. 2



[Application]

This model is used with grinders of wood slice cutters and most suitable for angle grinding of edges. It can also be used for uniform grinding in the longitudinal direction.

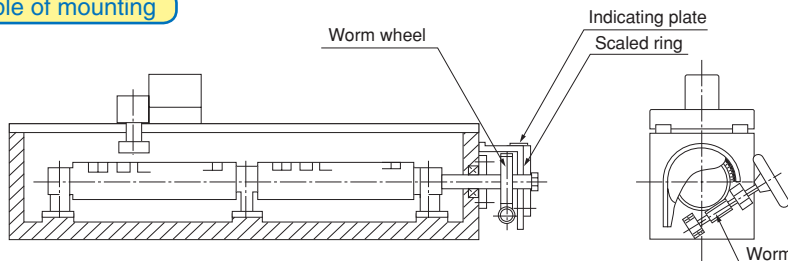
[Features]

- As a connecting type, this model consists of a main unit, lead shaft, intermediate shaft, tilting shaft, tilting base and intermediate tilting base. When one unit is used, it is used as shown in Fig. 2 and when three units are used, they are connected as shown in Fig. 1.
- As the tilting torque is large, the shaft has been made long to increase the reduction ratio on your machine side. (The scaled ring and tilting device are not included. Provide them on your machine side.)
- The chuck-to-chuck connecting clearance is as small as 40 mm.
- A resin-bonded structural face plate having little environmental burden is employed.

<When ordering>

If you want to connect units as shown in Fig. 1, please order the number of main units to be connected

An example of mounting



[mm (in.)]

Model	Nominal Size	Work Face		Pole pitch P	Length		Voltage	Current	Mass	Electro Chuck Master	Remarks
		L ₁	L _e		L ₁	L ₂					
KET-20100UTFS	200 (7.87) × 1000 (39.3)	1000 (39.3)	920 (36.2)	28 (4+24) (1.10) ※ Pitch varies according to places.	1340 (52.7)	90 VDC	0.72A	Approx.305kg/ 672 lb	ES-M103B ES-M305B EH-V305A EH-VE305A	※For types with a combination of a rectifier and demagnetizer, see pages of "Chuck Controllers."	
KET-20120UTFS	200 (7.87) × 1200 (47.2)	1200 (47.2)	1120 (44.0)		1540 (60.6)		0.90A	Approx.355kg/ 782 lb			
KET-20140UTFS	200 (7.87) × 1400 (55.1)	1400 (55.1)	1320 (51.9)		1740 (68.5)		1.00A	Approx.400kg/ 881 lb			
KET-20150UTFS	200 (7.87) × 1500 (59.0)	1500 (59.0)	1420 (55.9)		1840 (72.4)		1.25A	Approx.430kg/ 948 lb			
KET-20160UTJFS	200 (7.87) × 1600 (62.9)	1600 (62.9)	1520 (59.8)		1940 (76.3)		1.35A	Approx.445kg/ 981 lb			
KET-20170UTJFS	200 (7.87) × 1700 (66.9)	1700 (66.9)	1620 (63.7)		2040 (80.3)		1.33A	Approx.465kg/1025 lb			

※ The chuck controllers in this table are for single unit and when two or more units are connected, use "current × number of units connected" to select a suitable model.

※ 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.

※ The above models include the main unit, right/left tilting bases, lead shaft and tilting shaft.

※ The face plate of KET-UTJFS types is of split construction and no magnetic force may be generated in the center part.

P17-P20

ELECTROMAGNETIC CHUCKS

CHUCK CONTROLLERS

PERMANENT ELECTROMAGNETIC CHUCKS

PERMANENT ELECTROMAGNETIC CHUCKS

BLOCKS FOR MC

VACUUM CHUCKS

PROMELTA* SYSTEM

SINE BAR CHUCKS

BLOCKS HOLDERS, MINI CHUCKS

HOLDING TOOLS

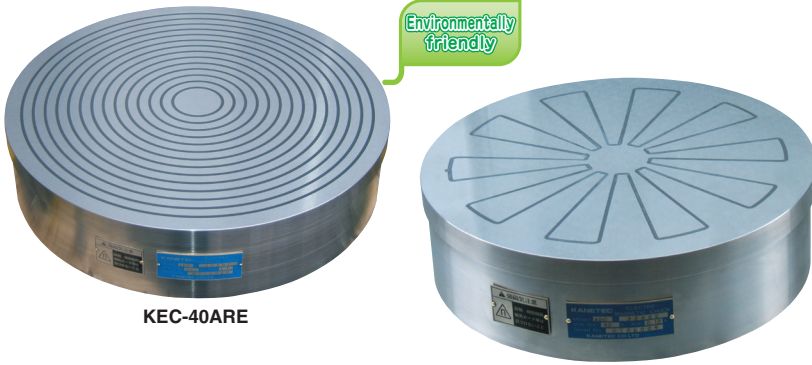
MEASURING TOOL HOLDERS

MAGNETIC HOLDERS

MAGNETIC TOOLS

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.

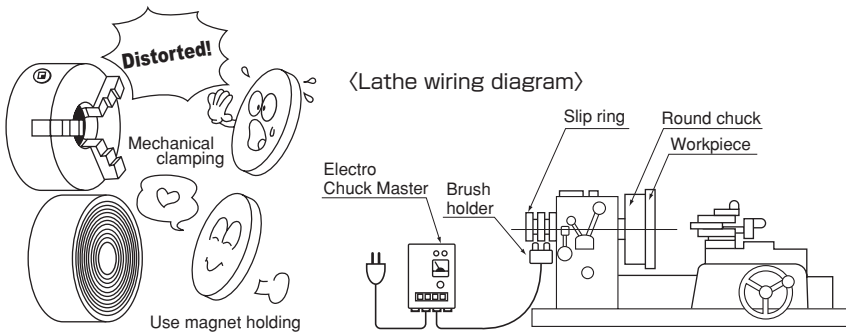
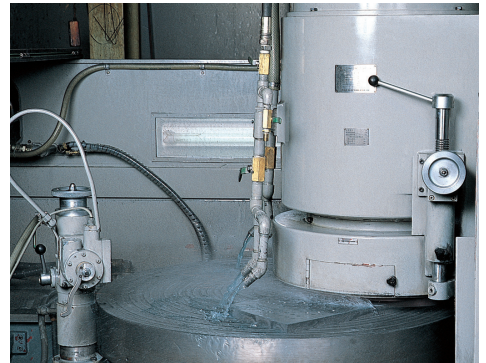
[Features]

- 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)	29 (1.14)	125 (4.92)		M 8 (0.31)			141 (5.55)	178 (7.00)			0.29A	12kg/ 26 lb		
KEC-20ARE	200 (7.87)	200 (7.87)	161 (6.33)	35 (1.37)	160 (6.29)		224 (8.81)			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)		280 (11.0)			0.52A	33kg/ 72 lb						
KEC-32ARE	315 (12.4)	315 (12.4)	271 (10.6)	49 (1.92)	250 (9.84)		355 (13.9)			0.53A	52kg/ 114 lb						
KEC-40ARE	400 (15.7)	400 (15.7)	367 (14.4)	49 (1.92)	315 (12.4)		450 (17.7)			1.10A	93kg/ 205 lb						
KEC-50ARE	500 (19.6)	500 (19.6)	463 (18.2)	70 (2.75)	400 (15.7)		560 (22.0)			1.85A	130kg/ 286 lb						
KEC-63ARE	630 (24.8)	630 (24.8)	583 (22.9)	70 (2.75)	500 (19.6)		710 (27.9)			3.10A	190kg/ 418 lb						
KEC-80ARE	800 (31.5)	800 (31.5)	748 (29.4)	70 (2.75)	630 (24.8)		900 (35.4)			5.10A	370kg/ 815 lb						
KEC-100ARE	1000 (39.4)	1000 (39.4)	944 (37.1)	70 (2.75)	800 (31.5)		M16 (0.62)			6.55A	580kg/ 1278 lb						

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)	-	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)	40 (1.57)		125 (4.92)			M 8 (0.31)	140 (5.51)			178 (7.00)	0.08A			12kg/ 26 lb
KEC-20ASE	200 (7.87)	200 (7.87)	161 (6.33)	40 (1.57)		160 (6.29)			224 (8.81)	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)			280 (11.0)	0.40A			33kg/ 72 lb				
KEC-32ASE	315 (12.4)	315 (12.4)	271 (10.6)	49 (1.92)		250 (9.84)			355 (13.9)	0.44A			52kg/ 114 lb				
KEC-40ASE	400 (15.7)	400 (15.7)	367 (14.4)	49 (1.92)		315 (12.4)			450 (17.7)	0.68A			93kg/ 205 lb				
KEC-50ASE	500 (19.6)	500 (19.6)	463 (18.2)	70 (2.75)		400 (15.7)			560 (22.0)	1.00A			145kg/ 319 lb				
KEC-63ASE	630 (24.8)	630 (24.8)	583 (22.9)	70 (2.75)		500 (19.6)			710 (27.9)	1.28A			190kg/ 418 lb				
KEC-80ASE	800 (31.5)	800 (31.5)	748 (29.4)	70 (2.75)		630 (24.8)			900 (35.4)	1.88A			370kg/ 815 lb				
KEC-100ASE	1000 (39.4)	1000 (39.4)	944 (37.1)	70 (2.75)		800 (31.5)			M16 (0.62)	3.92A			580kg/ 1278 lb				

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

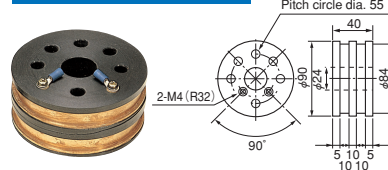
*The chuck controller and clamp parts are not included. The KANETEC chucks work best when a KANETEC chuck controller is used.

Feeder (optional)

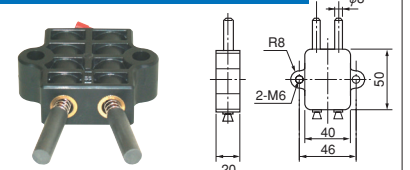
This feeder is required to use the round type electromagnetic chucks. Since the chuck itself is rotated, the feeder cables cannot be connected directly. For this reason, electricity is fed via a slip contact between the carbon brush on the power source side and the slip ring attached to the chuck.

- 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



Model **KETB** AIRUP*

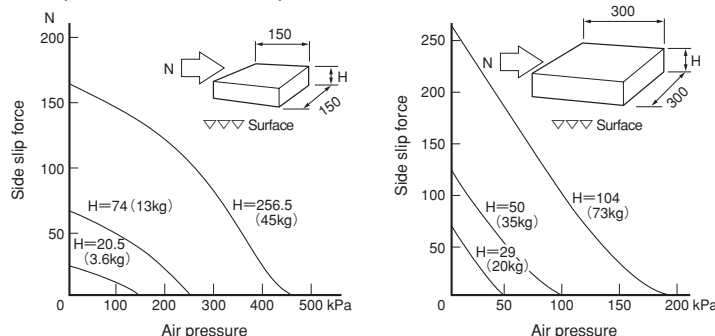
Pneumatic floating type



KETB-3060B

Control unit required additionally

(Air pressure and side slip force)

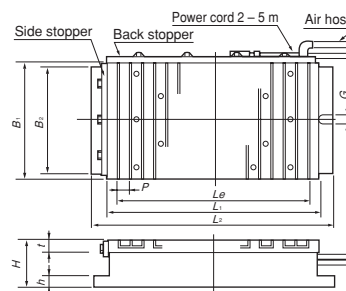


[Application]

Air is jetted through air holes provided on the chuck work face to float a workpiece for easy positioning, demounting and movement. The chucks can be air cooled by adding a cooling device. This model is for grinding, but a model for cutting is also available upon request.

[Features]

- Workpieces having strong residual magnetism can be separated and floated by the pressure of a small amount of air for easy removal.
- The optimum floating condition can be adjusted according to the material, size and shape of workpieces by increasing/decreasing the air pressure supplied from the control unit.
- As a small amount of air is constantly jetted through air holes during grinding, intrusion of grinding fluid and ground powder can be prevented.
- The air circuit in the chuck has a construction specially developed by KANETEC to minimize clogging.
- The control unit is an easy-to-operate special unit incorporating an air regulator, rectifier and demagnetizer.

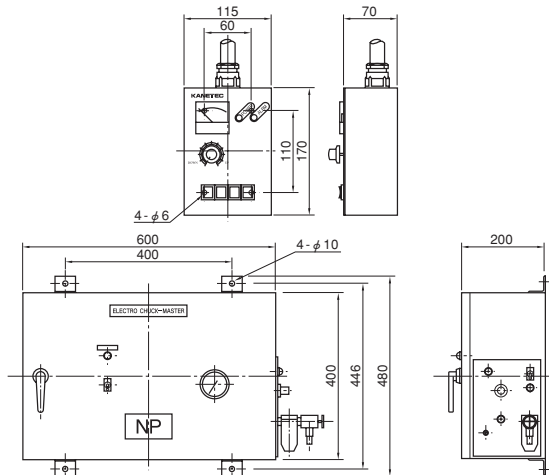


Model	Nominal Size	Work Face				Pole Pitch	Mounting Face			Height	Mounting Hole	Voltage	Current	Power Cord	Mass	Control Unit	Remarks
		B ₁	L ₁	t	L _e		B ₂	L ₂	h								
KETB-2050B	200(7.87) × 500(19.6)	200(7.87)	500(19.6)	42(1.65)	464(18.2)	14(2+12) (0.55)	194(7.63)	544(21.4)	18(0.70)	92(3.62)	14	90 VDC	0.34A	3m(118)	64kg/ 141 lb	ES-VB305A	The control unit incorporates an air regulator, rectifier and demagnetizer.
KETB-2060B	200(7.87) × 600(23.6)		600(23.6)		548(21.5)			600(23.6)					600(23.6)				
KETB-2550B	250(9.84) × 500(19.6)	250(9.84)	500(19.6)	451(17.7)	19.5(2.5+17) (0.76)	244(9.60)	500(19.6)	20(0.78)	97(3.81)	Clamping (No hole)	102(4.01)	1.06A	3m(118)	84kg/ 185 lb			
KETB-3060B	300(11.8) × 600(23.6)	300(11.8)	600(23.6)	529(20.8)			600(23.6)							600(23.6)			
KETB-4050B	400(15.7) × 500(19.6)	400(15.7)	500(19.6)	451(17.7)	490(19.2)	500(19.6)	500(19.6)	100(39.4)	102(4.01)	Clamping (No hole)	102(4.01)	1.09A	3m(118)	141kg/ 310 lb			
KETB-4060B	400(15.7) × 600(23.6)	400(15.7)	600(23.6)	529(20.8)			600(23.6)							600(23.6)			
KETB-40100B	400(15.7) × 1000(39.4)	400(15.7)	1000(39.4)	919(36.1)	490(19.2)	500(19.6)	1000(39.4)	1000(39.4)	102(4.01)	Clamping (No hole)	102(4.01)	1.74A	5m(196)	281kg/ 619 lb			
KETB-5050B	500(19.6) × 500(19.6)	500(19.6)	500(19.6)	451(17.7)			600(23.6)							600(23.6)			
KETB-50100B	500(19.6) × 1000(39.4)	500(19.6)	1000(39.4)	919(36.1)	590(23.2)	1000(39.4)	1000(39.4)	1000(39.4)	102(4.01)	Clamping (No hole)	102(4.01)	1.71A	5m(196)	351kg/ 773 lb			
KETB-6060B	600(23.6) × 600(23.6)	600(23.6)	600(23.6)	529(20.8)			600(23.6)							600(23.6)			
KETB-60100B	600(23.6) × 1000(39.4)	600(23.6)	1000(39.4)	919(36.1)	790(31.1)	1000(39.4)	1000(39.4)	1000(39.4)	102(4.01)	Clamping (No hole)	102(4.01)	3.10A	5m(196)	422kg/ 930 lb			
KETB-80100B	800(31.5) × 1000(39.4)	800(31.5)	1000(39.4)	919(36.1)			1000(39.4)							1000(39.4)			

*The control unit is not included.

Model **ES-VB** CONTROL UNIT FOR AIRUP*

(Dimensions of remote control box)



[Application]

This control unit is computer controlled to create the most effective demagnetizing patterns within a short period of time, thus providing the consistent demagnetizing effect constantly. The operation is quite simple. No complicated adjustment is necessary and an electric valve control circuit for floating is also incorporated. During grinding of workpieces, air at low pressure [about 20 kPa (0.2 kg/cm²)] is jetted through holes provided on the chuck work face to prevent intrusion of waste fluid/oil and fine particles. When unloading the workpieces after the end of grinding, the circuit is automatically switched over to the high pressure [about 150 kPa (1.5 kg/cm²)] in response to the demagnetizing command to float the workpieces.

[Features]

- The demagnetizing time is as short as 6 to 15 seconds and consistent demagnetizing effect can be obtained.
- The magnetic force can be adjusted and workpieces can be straightened also.
- The noise resistance feature ensures consistent performance in certain noisy environment.
- A compact air unit is incorporated.

Model	Input		Output		Dimensions			Mounting			Air Control Unit	Mass	Remote Control Box		
	Voltage	Voltage	Current	W	D	H	W	H	Hole	W			D	H	
ES-VB305A	Single-phase	100/200 VAC	0 - 90 VDC	5A	600(23.6)	200(7.78)	400(15.7)	400(15.7)	446(17.5)	4-φ10(φ0.39)	Built-in	40kg/88 lb	115(4.52)	70(2.75)	170(6.69)

*For applications where the output current more than 5 A is required, the controller and the air control unit come as specially-fabricated separate units.

*The applicable air pipe diameter is φ8 or φ12. *The output is adjusted with a variable resistor.

ELECTROMAGNETIC CHUCKS
 CHUCK CONTROLLERS
 PERMANENT MAGNETIC CHUCKS
 PERMANENT ELECTROMAGNETIC CHUCKS
 BLOCKS FOR MC
 VACUUM CHUCKS
 PROMELTA* SYSTEM
 SINE BAR CHUCKS
 BLOCKS HOLDERS, MINI CHUCKS
 HOLDING TOOLS
 MEASURING TOOL HOLDERS
 MAGNETIC HOLDERS
 MAGNETIC TOOLS

ELECTROMAGNETIC CHUCKS

Model KCT WATER-COOLED RECTANGULAR ELECTROMAGNETIC CHUCK

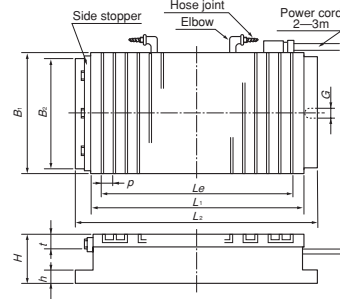
Environmentally friendly

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)	φ8 (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)	14 (2+12) (0.55)	119 (4.68)	294 (11.5)	85 (3.34)	14 (0.55)	φ8 (0.31)	90 VDC	0.19A	2m	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)	14 (0.55)	φ8 (0.31)	90 VDC	0.20A	2m	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)	14 (0.55)	φ8 (0.31)	90 VDC	0.22A	2m	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)	14 (0.55)	φ8 (0.31)	90 VDC	0.29A	2m	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)	φ12 (0.47)	90 VDC	0.43A	3m	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)	φ12 (0.47)	90 VDC	0.34A	3m	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)	φ12 (0.47)	90 VDC	0.47A	3m	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)	290 (11.4)	500 (19.6)	100 (3.93)	Clamping (No hole)	φ12 (0.47)	90 VDC	0.56A	3m	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)	290 (11.4)	600 (23.6)	100 (3.93)	Clamping (No hole)	φ12 (0.47)	90 VDC	0.72A	3m	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)	Clamping (No hole)	φ12 (0.47)	90 VDC	0.68A	3m	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)	Clamping (No hole)	φ12 (0.47)	90 VDC	1.06A	3m	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)	Clamping (No hole)	φ12 (0.47)	90 VDC	0.96A	3m	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)	Clamping (No hole)	φ12 (0.47)	90 VDC	1.09A	3m	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)	Clamping (No hole)	φ12 (0.47)	90 VDC	0.93A	3m	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)	Clamping (No hole)	φ12 (0.47)	90 VDC	1.06A	3m	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.)

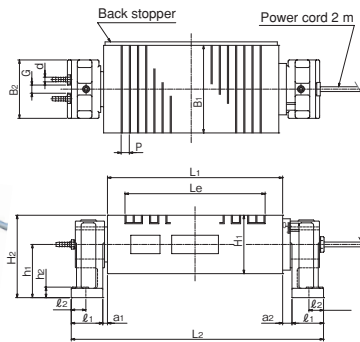
Model KCT-U WATER-COOLED TILT TYPE ELECTROMAGNETIC CHUCK

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)	382 (15.0)	125 (4.92)	φ8 (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)	432 (17.0)	125 (4.92)	φ8 (0.31)	90 VDC	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)	532 (20.9)	125 (4.92)	φ8 (0.31)	90 VDC	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)	432 (17.0)	141 (5.55)	φ8 (0.31)	90 VDC	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)	482 (18.9)	141 (5.55)	φ8 (0.31)	90 VDC	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)	582 (22.9)	141 (5.55)	φ8 (0.31)	90 VDC	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)	642 (25.2)	170 (6.69)	φ8 (0.31)	90 VDC	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)	59 (2.32)	16 (0.62)	742 (29.2)	170 (6.69)	φ8 (0.31)	90 VDC	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)	59 (2.32)	16 (0.62)	842 (33.1)	170 (6.69)	φ8 (0.31)	90 VDC	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.

Model KCC-AR WATER-COOLED ROUND ELECTROMAGNETIC CHUCK



KCC-35AR

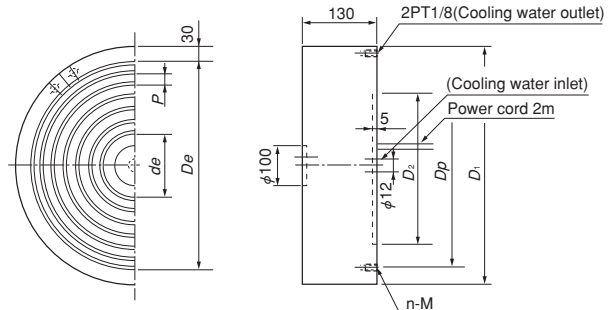
Chuck controller required additionally

[Application]

Suitable for grinding by rotary grinders.

[Features]

- Very little accuracy change. KANETEC's unique cooling mechanism minimizes temperature rise. Deformation of the chuck is minimized, thus making it most suitable for high precision grinding operations.



Model	Nominal Size	Work Face			Pole Pitch P	Mounting Face				Height	Voltage	Current	Mass	Electro Chuck Master	Remarks	
		D ₁	D _e	d _e		D ₂	D _p	M	n							
KCC-35AR	350 (13.7)	350 (13.7)	316 (12.4)	145 (5.70)	14 (3+11) (0.55)	200 (7.87)	250 (9.87)	M10	4 pcs	130 (5.11)	90 VDC	0.75A	82kg/180 lb	ES-M103B	※ For types with a combination of a rectifier and demagnetizer, see pages of "Chuck Controllers."	
KCC-40AR	400 (15.7)	400 (15.7)	341 (13.4)	139 (5.47)		250 (9.87)	300 (11.8)	(0.39)				M12	1.00A	108kg/238 lb		ES-M305B
KCC-50AR	500 (19.6)	500 (19.6)	441 (17.3)	183 (7.20)		350 (13.7)	400 (15.7)	(0.47)					8 pcs	1.70A		168kg/370 lb
KCC-60AR	600 (23.6)	600 (23.6)	541 (21.3)	171 (6.73)		450 (17.7)	500 (19.6)					2.30A		250kg/551 lb		EH-VE305A
KCC-70AR	700 (27.5)	700 (27.5)	641 (25.2)	159 (6.26)		550 (21.6)	600 (23.6)		3.20A			330kg/727 lb	Above models except for the one marked by ※.			
KCC-80AR	800 (31.5)	800 (31.5)	741 (29.1)	147 (5.78)	650 (25.5)	700 (27.5)		3.90A	430kg/948 lb							

※ A cooler unit is required additionally. ※ 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.

Model LCU COOLER UNIT

Cooling water radiation and circulation unit



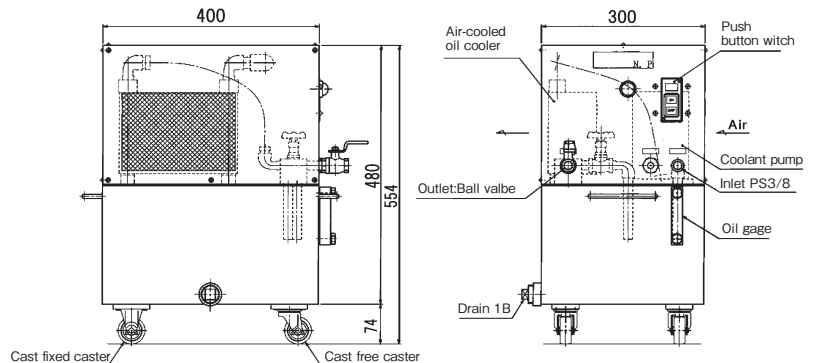
LCU-2A

[Application]

An air cooler unit to cool and circulate coolant in water-cooled type chucks.

[Features]

- The flow rate can be adjusted with a valve.
- Simple and compact for easy installation.
- Synchronized with room temperature by an air-cooled oil cooler.



Model	Discharge Amount	Total Lift	Power Source	Required Power	Dimensions	Tank Capacity	Mass	Accessories
LCU-2A	30 ℓ / 43 ℓ / min (50 / 60Hz)	2m (78.7)	Single phase 100 VAC (50 / 60Hz)	70W	300 (11.8) × 400 (15.7) × 554 (21.8)	20 ℓ	30kg/66 lb	Power cable 3 m (118)

※ The recommended coolant is automotive long life coolant.
 ※ The electromagnetic chucks to use must be those that consume less than 300 W (90V, 3.3 A).

ELECTROMAGNETIC CHUCKS
 CHUCK CONTROLLERS
 PERMANENT ELECTROMAGNETIC CHUCKS
 PERMANENT ELECTROMAGNETIC CHUCKS
 BLOCKS FOR MC
 VACUUM CHUCKS
 PROMELTA* SYSTEM
 SINE BAR CHUCKS
 BLOCKS HOLDERS, MINI CHUCKS
 HOLDING TOOLS
 MEASURING TOOL HOLDERS
 MAGNETIC HOLDERS
 MAGNETIC TOOLS