

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.

Model KEZF-WS ACSHIM* FOR PRECISION CUTTING



KEZF-WS4080

Chuck controller required additionally

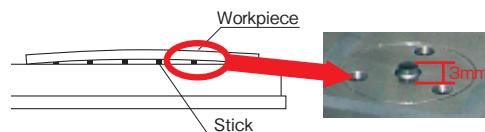
Environmentally friendly

[Application]

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

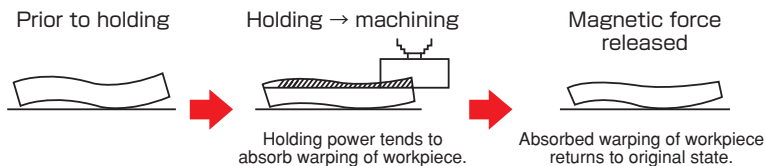
[Features]

- 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.

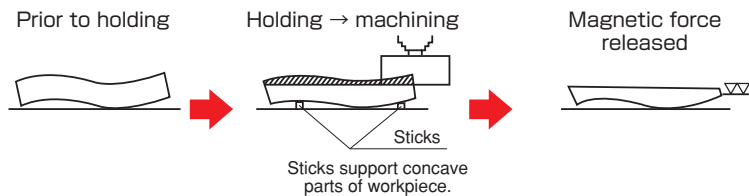


A gap in the center of a warped workpiece that cannot be reached by shims is supported by sticks.

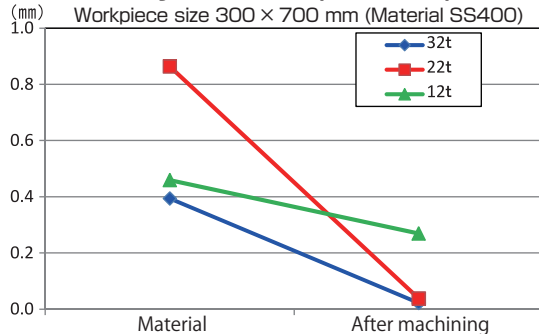
Normal electromagnetic chuck



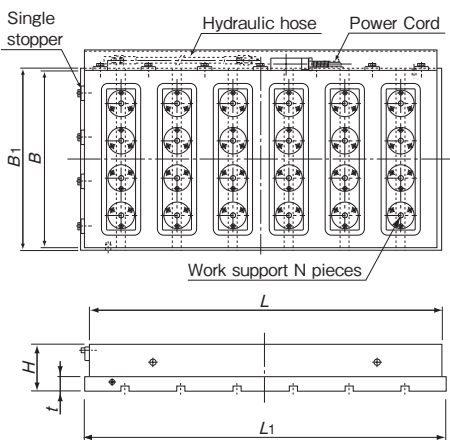
ACSHIM



Accuracy improvement by ACSHIM (Flatness)



Note: Not guaranteed values.



Model	Nominal Size	Work Face		Mounting Face		Height H	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 (1.18)	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)			48	430kg/948 lb	

[mm (in)]

Model **KEZF-G** ACSHIM* FOR GRINDING

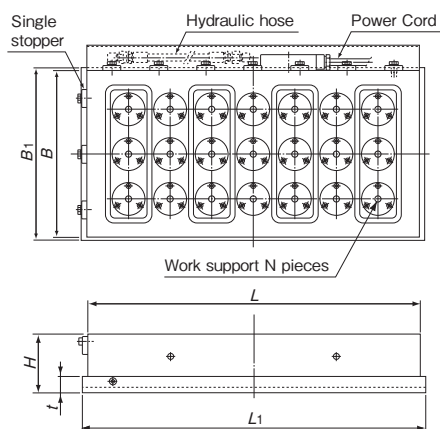
Arrangement of sticks for grinding operations realized!

Environmentally friendly



KEZF-G3060

Chuck controller required additionally



[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 H	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 (1.18)	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)		66	430kg/948 lb	

[mm (in)]

Model **EH-VFW** CONTROL UNIT FOR ACSHIM* FOR HIGH-PRECISION CUTTING/GRINDING

Controls ACSHIM Series precisely by simple operation!



EH-VFW205A



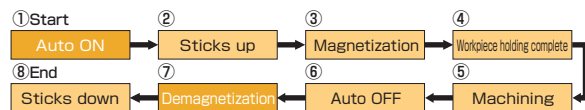
<Operation box>

[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)				

[mm (in)]

ELECTROMAGNETIC CHUCKS
CHUCK CONTROLLERS
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 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.

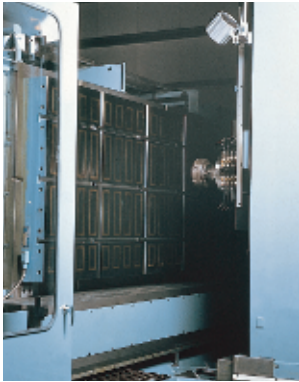
When clamping a nonmagnetic workpiece, such work as demounting the electromagnetic chuck from the machine table can be eliminated.

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

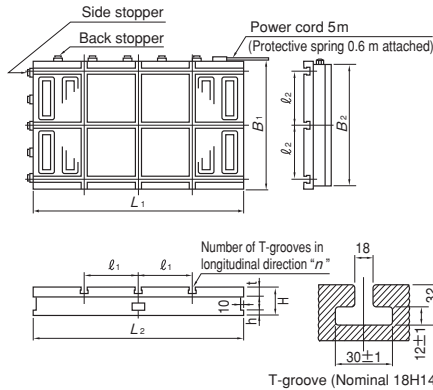
[Features]

- 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.

An example of vertical usage



KEZX-50100B
(An example of special fabrication)



[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	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)							
KEZX-60100B	600 (23.6) × 1000 (39.4)	600 (23.6)	1000 (39.4)		242 (9.52)	250 (9.84)	3	590 (23.2)	1000 (39.4)					6.1A	663kg/1462 lb	EH-VE210D	
														5.7A	530kg/1168 lb		

*"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

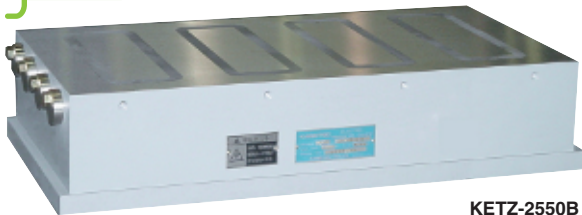
Chuck controller required additionally

[Application]

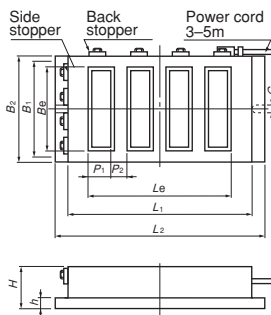
Designed for heavy duty cutting by a milling machine and planomiller. Most suitable for powerful chucking of thick workpieces and high-speed cutting where a large cutting force is exerted.

[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	300 (11.8)	240 (9.44)	90	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)	(5.90)	450 (17.7)	390 (15.3)	(3.54)	378 (14.8)	—	1	500 (19.6)	500 (19.6)				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)		0.90A	68kg/ 149lb			
KETZ- 2060B	200 (7.87) × 600 (23.6)		600 (23.6)	520 (20.4)		60 (2.36)	52 (2.04)	5		620 (24.4)								
KETZ- 2080B	200 (7.87) × 800 (31.5)		800 (31.5)	718 (28.2)		58 (2.28)	50 (1.96)	7		820 (32.2)				0.95A	79kg/ 174lb			
KETZ- 2550B	250 (9.84) × 500 (19.6)	250	500 (19.6)	422 (16.6)	200	62 (2.44)	54 (2.12)	4	256 (10.0)	520 (20.4)				1.16A	94kg/ 207lb			
KETZ- 2560B	250 (9.84) × 600 (23.6)	(9.84)	600 (23.6)	520 (20.4)	(7.87)	60 (2.36)	52 (2.04)	5		620 (24.4)				1.26A	118kg/ 260lb			
KETZ- 3060B	300 (11.8) × 600 (23.6)	300	600 (23.6)	520 (20.4)	240	60 (2.36)	52 (2.04)	5	306 (12.0)	920 (36.2)				1.64A	143kg/ 315lb			
KETZ- 3090B	300 (11.8) × 900 (35.4)	(11.8)	900 (35.4)	817 (32.1)	(9.44)	67 (2.63)	56 (2.20)	7		920 (36.2)				3.04A	203kg/ 447lb			
KETZ- 4080B	400 (15.7) × 800 (31.5)	400	800 (31.5)	718 (28.2)	340	58 (2.28)	50 (1.96)	7	410 (16.1)	820 (32.2)				3.23A	240kg/ 529lb			
KETZ-40100B	400 (15.7) × 1000 (39.4)	(15.7)	1000 (39.4)		(13.3)									3.69A	300kg/ 661lb			
KETZ-50100B	500 (19.6) × 1000 (39.4)	500	1000 (39.4)	917 (36.1)	430	55 (2.16)	—	8	510 (20.0)	1020 (40.1)				3.95A	375kg/ 826lb			
⊙KETZ-50150C	500 (19.6) × 1500 (59.0)	(19.6)	750 (29.5) × 2	1417 (55.7)	(16.9)	65 (2.55)	52 (2.04)	6 × 2		1520 (59.8)				2.69A × 2	552kg/ 1217lb			
KETZ-60100B	600 (23.6) × 1000 (39.4)	600	1000 (39.4)	917 (36.1)	530	55 (2.16)	—	8	610 (24.0)	1020 (40.1)				5.30A	414kg/ 912lb			
⊙KETZ-60150C	600 (23.6) × 1500 (59.0)	(23.6)	750 (29.5) × 2	1412 (55.5)	(20.8)	52 (2.04)	52 (2.04)	6 × 2		1520 (59.8)				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.

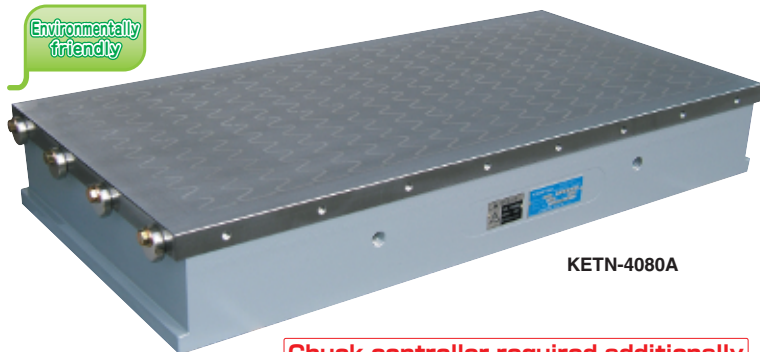
*The chuck controller and clamp parts are not included. The KANETEC chucks work best when a KANETEC chuck controller is used.

*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.

P17-P20

Model **KETN** POWERFUL WAVEFORM ELECTROMAGNETIC CHUCK

Environmentally friendly



KETN-4080A

Chuck controller required additionally

An example of mounting on machine

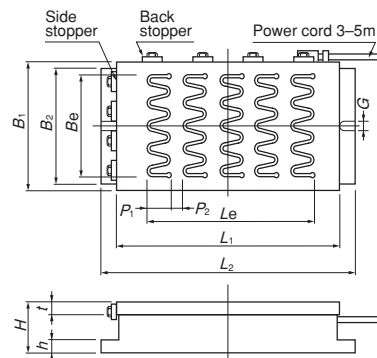


[Application]

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.



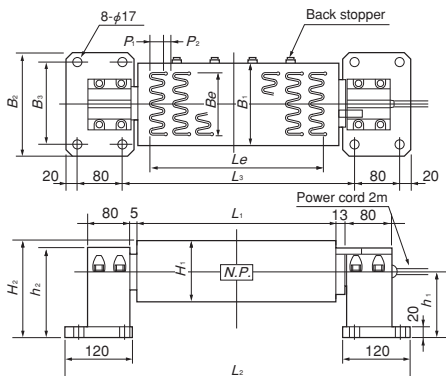
Model	Nominal Size	Work Face				Pole Pitch		Mounting Face		Height	Mounting Hole	Voltage	Current	Mass	Electro Chuck Master	Remarks
		B ₁	L ₁	t	Be	Le	P ₁	P ₂	B ₂							
KETN-1530A	150(5.90) × 300(11.8)	150(5.90)	300(11.8)	20	112(4.40)	248(9.76)	28(1.10)	146(5.74)	344(13.5)	18	100	90 VDC	0.49A	27kg/ 59lb	*ES-M103B ES-M305B EH-V305A EH-VE305A *For types with a combination of a rectifier and demagnetizer, see pages of "Chuck Controllers." *Above models except for the one marked by *.	
KETN-1545A	150(5.90) × 450(17.7)		450(17.7)	(0.78)	404(15.9)	440(17.3)	22(0.86)	494(19.4)	(0.70)	(3.93)	14		0.87A	41kg/ 90lb		
KETN-2050A	200(7.87) × 500(19.6)		500(19.6)		152(5.98)	523(20.5)	22.5(0.88)	544(21.4)			Clamping		1.09A	80kg/ 176lb		
KETN-2060A	200(7.87) × 600(23.6)	200(7.87)	600(23.6)		208(8.18)	440(17.3)	22(0.86)	600(23.6)			14		1.18A	98kg/ 216lb		
KETN-2550A	250(9.84) × 500(19.6)	250(9.84)	500(19.6)		246(9.68)	722(28.4)	26(1.02)	600(23.6)					1.42A	102kg/ 224lb		
KETN-3060A	300(11.8) × 600(23.6)		600(23.6)		294(11.5)	800(31.5)	16(0.62)	600(23.6)					1.59A	130kg/ 286lb		
KETN-3080A	300(11.8) × 800(31.5)	300(11.8)	800(31.5)	25(0.98)	919(36.1)	26.5(1.04)		294(11.5)	800(31.5)	20(0.78)	120(4.72)		2.21A	173kg/ 381lb		
KETN-30100A	300(11.8) × 1000(39.4)		1000(39.4)		342(13.4)	919(36.1)	26.5(1.04)	1000(39.4)					3.35A	240kg/ 529lb		
KETN-4080A	400(15.7) × 800(31.5)	400(15.7)	800(31.5)		432(17.0)	920(36.2)	23(0.90)	390(15.3)	800(31.5)				3.05A	230kg/ 507lb		
KETN-40100A	400(15.7) × 1000(39.4)		1000(39.4)		522(20.5)	924(36.3)	31(1.22)	490(19.2)	1000(39.4)				4.17A	288kg/ 634lb		
KETN-50100A	500(19.6) × 1000(39.4)	500(19.6)	1000(39.4)					590(23.2)				5.86A	400kg/ 881lb	EH-VE210D		
KETN-60100A	600(23.6) × 1000(39.4)	600(23.6)	1000(39.4)									5.66A	470kg/1036lb			

*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



[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	Be	Le	H ₁	P ₁	P ₂	B ₂	B ₃	L ₃							
KETN-1530U	150(5.90) × 300(11.8)	150	300(11.8)	116	248(9.76)	110	28(1.10)	190	150	352(13.8)	120	163	552(21.7)	90 VDC	0.49A	56kg/123 lb	*ES-M103B ES-M305B EH-V305A EH-VE305A *For types with a combination of a rectifier and demagnetizer, see pages of "Chuck Controllers." *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.	
KETN-1545U	150(5.90) × 450(17.7)	(5.90)	450(17.7)	(4.56)	404(15.9)	(4.33)	26(1.02)	(7.48)	(5.90)	502(19.7)	(4.72)	(6.41)	702(27.6)		0.83A	72kg/158 lb		
KETN-2050U	200(7.87) × 500(19.6)	200	500(19.6)	152	440(17.3)		22(0.86)			552(21.7)			752(29.6)		1.26A	96kg/211 lb		
KETN-2060U	200(7.87) × 600(23.6)	(7.87)	600(23.6)	(5.98)	530(20.8)		22.5(0.88)			652(25.6)			852(33.5)		1.17A	110kg/242 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.

ELECTROMAGNETIC CHUCKS
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MAGNETIC TOOLS

ELECTROMAGNETIC CHUCKS

Model KESL LATERAL FINE PITCH ELECTROMAGNETIC CHUCK



KESL-1535A-1

Chuck controller required additionally

Pitches for comparison

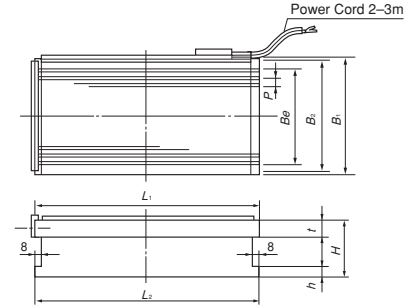


[Application]

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]

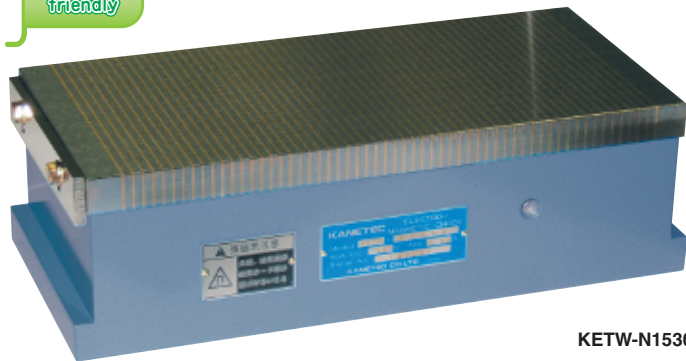
- A fine pole pattern is arranged in the longitudinal direction.
- The N-S magnetic force lines are spaced relatively wide for good holding via a belt. (Note, however, that because the distribution of the holding power is not uniform, this model may not be suitable for grinding small workpieces arranged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



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						
KESL-1025A-1	100 (3.93) × 250 (9.84)	100 (3.93)	250 (9.84)	20 (0.78)	77 (3.03)	98 (3.85)	250 (9.84)	13 (0.51)	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)									
KESL-1530A-1	150 (5.90) × 300 (11.8)	150 (5.90)	300 (11.8)	125 (4.92)	148 (5.82)	300 (11.8)	13 (0.51)	70 (2.75)	90 VDC	0.48A	2m (78.7)	19kg / 42 lb			
KESL-1535A-1	150 (5.90) × 350 (13.7)		350 (13.7)									350 (13.7)	350 (13.7)		
KESL-1545A-1	150 (5.90) × 450 (17.7)	200 (7.87)	450 (17.7)	173 (6.81)	198 (7.79)	500 (19.6)	13 (0.51)	70 (2.75)	90 VDC	0.85A	3m (118)	23kg / 51 lb			
KESL-2040A-1	200 (7.87) × 400 (15.7)		400 (15.7)									400 (15.7)	400 (15.7)		
KESL-2050A-1	200 (7.87) × 500 (19.6)	200 (7.87)	500 (19.6)	225 (8.85)	248 (9.76)	500 (19.6)	13 (0.51)	70 (2.75)	90 VDC	1.08A	3m (118)	29kg / 64 lb			
KESL-2060A-1	200 (7.87) × 600 (23.6)		600 (23.6)									600 (23.6)	600 (23.6)		
KESL-2550A-1	250 (9.84) × 500 (19.6)	250 (9.84)	500 (19.6)	273 (10.7)	298 (11.7)	600 (23.6)	13 (0.51)	85 (3.34)	90 VDC	1.60A	3m (118)	34kg / 75 lb			
KESL-3060A-1	300 (11.8) × 600 (23.6)		600 (23.6)									600 (23.6)	600 (23.6)		

※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



KETW-N1530

Chuck controller required additionally

(Information)

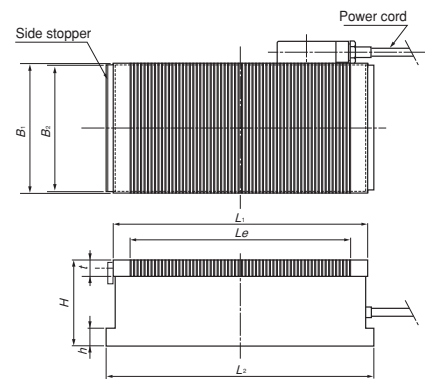
For small and thin workpieces, the permanent magnetic micropitch chuck is recommended. See Model RMWH.

[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.



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)	150 (5.90)	300 (11.8)	19 (0.75)	245 (9.64)	146 (5.74)	314 (12.3)	20 (0.78)	100 (3.93)	Clamping	90 VDC	0.4A	2m (78.7)	31kg / 68 lb	ES-M103B ES-M305B EH-V305A EH-VE305A	※For types with a combination of a rectifier and demagnetizer, see pages of "Chuck Controllers."	
KETW-N1535	150 (5.90) × 350 (13.7)		350 (13.7)		293 (11.5)									364 (14.3)			
KETW-N1545	150 (5.90) × 450 (17.7)	450 (17.7)	397 (15.6)	464 (18.2)													
KETW-N2040	200 (7.87) × 400 (15.7)	200 (7.87)	400 (15.7)	25 (0.98)	349 (13.7)	196 (7.71)	414 (16.3)	20 (0.78)	120 (4.72)	Clamping	90 VDC	0.7A	3m (118)	46kg / 101 lb			
KETW-N2050	200 (7.87) × 500 (19.6)		500 (19.6)		445 (17.5)									514 (20.2)			
KETW-N2060	200 (7.87) × 600 (23.6)	250 (9.84)	600 (23.6)	549 (21.6)	246 (9.68)	614 (24.1)	20 (0.78)	120 (4.72)	Clamping	90 VDC	0.8A	3m (118)	65kg / 144 lb				
KETW-N2560	250 (9.84) × 600 (23.6)		600 (23.6)		549 (21.6)								514 (20.2)				
KETW-N3060	300 (11.8) × 600 (23.6)	300 (11.8)	600 (23.6)	549 (21.6)	296 (11.4)	614 (24.1)	20 (0.78)	120 (4.72)	Clamping	90 VDC	1.2A	3m (118)	82kg / 180 lb				
			600 (23.6)		549 (21.6)								514 (20.2)				

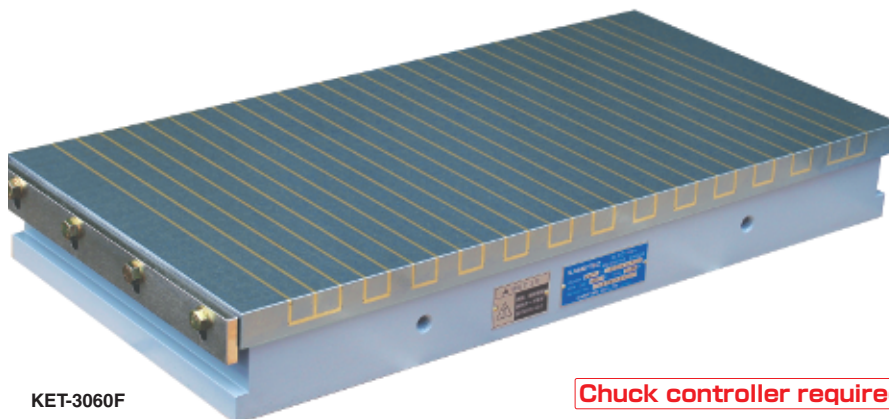
※If the magnetic force needs not be adjusted, use ES-M.

※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.)

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

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.

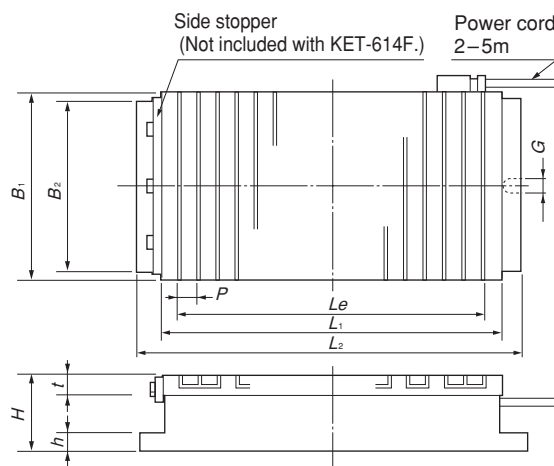
■ KANETEC's original light weight design!

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)]

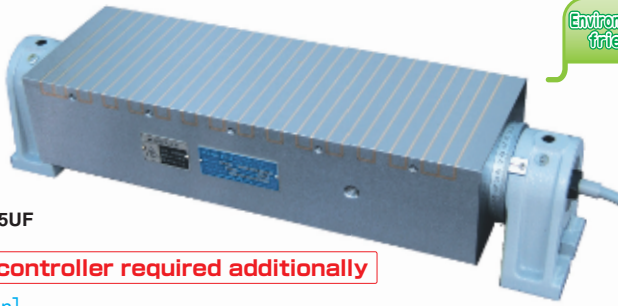
Model	Nominal Size	Work Face				Pole Pitch	Mounting Face			Height	Mounting Hole	Voltage	Current	Power Cord	Mass	Electro Chuck Master	Remarks
		B ₁	L ₁	t	L _e		P	B ₂	L ₂								
KET- 614F	60(2.36) × 140(5.51)	63(2.48)	140(5.51)	13(0.51)	106(4.17)	8(2+6)(0.31)	60(2.36)	170(6.69)	12(0.47)	67(2.63)	8	0.12A	2m(78.7)	3.5kg/ 7 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- 1025F	100(3.93) × 250(9.84)	100(3.93)	250(9.84)	20	211(8.30)	11(2+9)(0.43)	96(3.78)	294(11.5)	18(0.70)	70(2.75)	10	0.16A	12kg/ 26 lb				
KET- 1325F	125(4.92) × 250(9.84)	125(4.92)	250(9.84)	20	212(8.34)	14(2+12)(0.55)	119(4.68)	344(13.5)	18(0.70)	70(2.75)	14	0.19A	15kg/ 33 lb				
KET- 1530F	150(5.90) × 300(11.8)	150(5.90)	300(11.8)	20	240(9.44)	14(2+12)(0.55)	144(5.66)	394(15.5)	18(0.70)	70(2.75)	14	0.20A	21kg/ 46 lb				
KET- 1535F	150(5.90) × 350(13.7)	150(5.90)	350(13.7)	20	296(11.6)	14(2+12)(0.55)	144(5.66)	394(15.5)	18(0.70)	70(2.75)	14	0.22A	25kg/ 55 lb				
KET- 1545F	150(5.90) × 450(17.7)	150(5.90)	450(17.7)	20	408(16.0)	14(2+12)(0.55)	194(7.63)	494(19.4)	18(0.70)	70(2.75)	14	0.29A	32kg/ 70 lb				
KET- 2040F	200(7.87) × 400(15.7)	200(7.87)	400(15.7)	20	352(13.8)	14(2+12)(0.55)	194(7.63)	444(17.4)	18(0.70)	70(2.75)	14	0.43A	38kg/ 83 lb				
KET- 2050F	200(7.87) × 500(19.6)	200(7.87)	500(19.6)	20	464(18.2)	14(2+12)(0.55)	194(7.63)	544(21.4)	18(0.70)	70(2.75)	14	0.34A	47kg/ 103 lb				
KET- 2060F	200(7.87) × 600(23.6)	200(7.87)	600(23.6)	20	548(21.5)	14(2+12)(0.55)	194(7.63)	600(23.6)	18(0.70)	70(2.75)	14	0.47A	57kg/ 125 lb				
KET- 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)	20(0.78)	80(3.15)	14	0.56A	67kg/ 147 lb				
KET- 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)	20(0.78)	80(3.15)	14	0.72A	80kg/ 176 lb				
KET- 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)	20(0.78)	80(3.15)	14	0.68A	94kg/ 207 lb				
KET- 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)	20(0.78)	80(3.15)	14	1.06A	106kg/ 233 lb				
KET- 3090F	300(11.8) × 900(35.4)	300(11.8)	900(35.4)	25	841(33.1)	19.5(2.5+17)(0.76)	290(11.4)	900(35.4)	20(0.78)	80(3.15)	14	1.22A	145kg/ 319 lb				
KET- 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)	20(0.78)	85(3.34)	14	0.96A	114kg/ 251 lb				
KET- 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)	20(0.78)	85(3.34)	14	1.09A	137kg/ 302 lb				
KET- 4080F	400(15.7) × 800(31.5)	400(15.7)	800(31.5)	25	724(28.5)	19.5(2.5+17)(0.76)	390(15.3)	800(31.5)	20(0.78)	85(3.34)	14	1.42A	182kg/ 401 lb				
KET-40100F	400(15.7) × 1000(39.4)	400(15.7)	1000(39.4)	25	958(37.7)	19.5(2.5+17)(0.76)	390(15.3)	1000(39.4)	20(0.78)	85(3.34)	14	1.74A	228kg/ 502 lb				
KET- 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)	20(0.78)	85(3.34)	14	0.93A	142kg/ 313 lb				
KET- 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)	20(0.78)	85(3.34)	14	1.06A	171kg/ 377 lb				
KET- 5065F	500(19.6) × 650(25.5)	500(19.6)	650(25.5)	25	607(23.9)	19.5(2.5+17)(0.76)	490(19.2)	650(25.5)	20(0.78)	85(3.34)	14	1.30A	185kg/ 407 lb				
KET-50100F	500(19.6) × 1000(39.4)	500(19.6)	1000(39.4)	25	958(37.7)	19.5(2.5+17)(0.76)	490(19.2)	1000(39.4)	20(0.78)	85(3.34)	14	1.71A	285kg/ 628 lb				
KET- 6060F	600(23.6) × 600(23.6)	600(23.6)	600(23.6)	25	529(20.8)	19.5(2.5+17)(0.76)	590(23.2)	600(23.6)	20(0.78)	85(3.34)	14	1.48A	342kg/ 754 lb				
KET-60100F	600(23.6) × 1000(39.4)	600(23.6)	1000(39.4)	25	958(37.7)	19.5(2.5+17)(0.76)	590(23.2)	1000(39.4)	20(0.78)	85(3.34)	14	3.10A	505kg/ 1113 lb				
KET- 7075F	700(27.5) × 750(29.5)	700(27.5)	750(29.5)	25	685(26.9)	19.5(2.5+17)(0.76)	690(27.1)	750(29.5)	20(0.78)	85(3.34)	14	2.87A	299kg/ 659 lb				
KET-80100F	800(31.5) × 1000(39.4)	800(31.5)	1000(39.4)	25	958(37.7)	19.5(2.5+17)(0.76)	790(31.1)	1000(39.4)	20(0.78)	85(3.34)	14	4.23A	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



Environmentally friendly

KET-1545UF

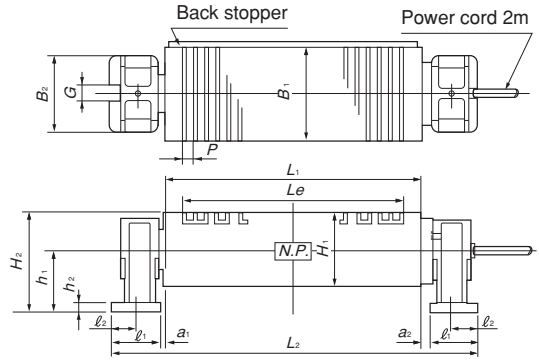
Chuck controller required additionally

[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
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)	0.09A	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."
KET-1025UF	100 (3.93)×250 (9.84)	100 (3.93)	250 (9.84)	211 (8.30)	100 (3.93)	11 (2+9) (0.31)	95 (3.74)	54 (2.12)	25 (0.98)	14 (0.55)	75 (2.95)	16 (0.62)	8 (0.31)	16 (0.62)	382 (15.0)	125 (4.92)	0.16A	21kg/ 46 lb		
KET-1030UF	100 (3.93)×300 (11.8)		300 (11.8)	255 (10.0)											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)	14 (2+12) (0.55)	100 (3.93)	25 (0.98)	16 (0.62)	91 (3.58)	18 (0.70)	8 (0.31)	16 (0.62)	432 (17.0)	141 (5.55)	0.21A	29kg/ 64 lb			
KET-1530UF	150 (5.90)×300 (11.8)	300 (11.8)	296 (11.6)	482 (18.9)										0.20A	37kg/ 81 lb					
KET-1535UF	150 (5.90)×350 (13.7)	150 (5.90)	350 (13.7)	296 (11.6)	100 (3.93)	14 (2+12) (0.55)	100 (3.93)	25 (0.98)	16 (0.62)	91 (3.58)	18 (0.70)	8 (0.31)	16 (0.62)	582 (22.9)	170 (6.69)	0.22A	41kg/ 90 lb			
KET-1545UF	150 (5.90)×450 (17.7)	450 (17.7)	408 (16.0)	742 (29.2)										0.29A	51kg/ 112 lb					
KET-2050UF	200 (7.87)×500 (19.6)	200 (7.87)	500 (19.6)	464 (18.2)	100 (3.93)	14 (2+12) (0.55)	100 (3.93)	25 (0.98)	16 (0.62)	120 (4.72)	20 (0.78)	8 (0.31)	16 (0.62)	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 to 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.

P17-P20

Model **KEZ-H** ELECTROMAGNETIC CHUCK WITH HARD ATTRACTIVE FACE



An example of fabrication

[Application]

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.

Chuck controller required additionally

※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

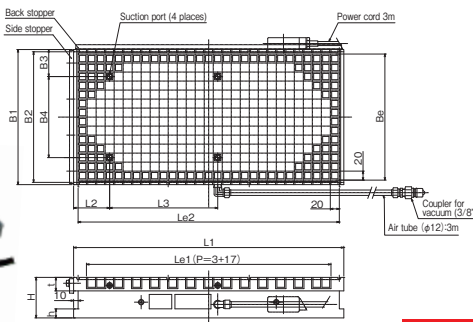
Chuck controller required additionally

Vacuum system required additionally

Environmentally friendly



KETV-3060F



[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.

See "Vacuum Chucks" on pages P42 to P45 also.

[mm (in)]

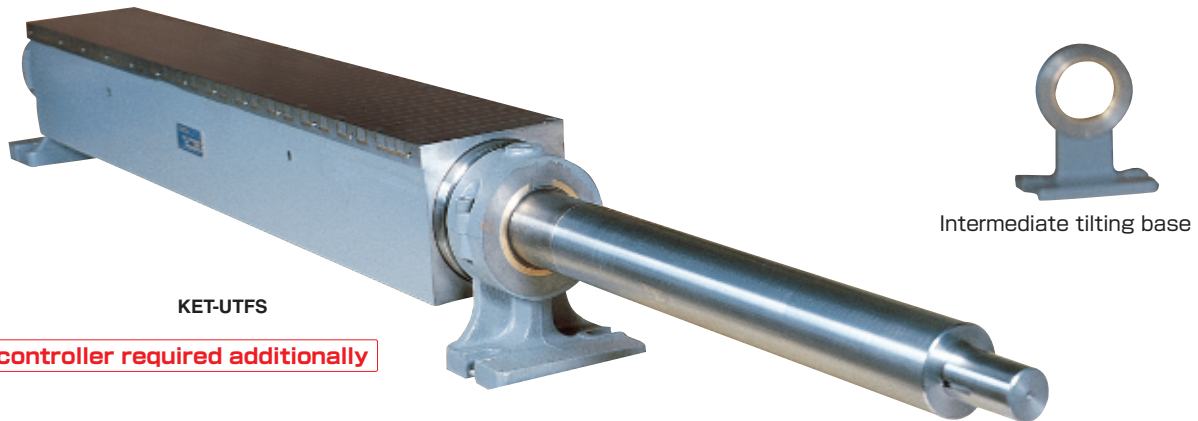
Model	Nominal Size	Work Face						Pole pitch	Mounting Face		Height	Grid Pitch	Voltage	Current	Mass	Applicable Vacuum System
		B ₁	L ₁	t	Le ₁	Le ₂	L ₂		L ₃	Be						
KETV- 3060F	300 (11.8) × 600 (23.6)	300 (11.8)	600 (23.6)		543 (21.3)	580 (22.8)		240 (9.44)	280 (11.0)		180 (7.08)	290 (11.4)	90 VDC	1.3A	110kg/242 lb	VPU-D20 VPU-E10 VPU-E20
KETV- 4080F	400 (15.7) × 800 (31.5)	400 (15.7)	800 (31.5)	30 (1.18)	743 (29.2)	780 (30.7)	80 (3.14)	320 (12.5)	380 (14.9)	60 (2.36)	280 (11.0)	390 (15.3)				
KETV-50100F	500 (19.6) × 1000 (39.4)	500 (19.6)	1000 (39.4)		943 (37.1)	980 (38.5)		440 (17.3)	480 (18.8)		380 (14.9)	490 (7.08)				
KETV-60100F	600 (23.6) × 1000 (39.4)	600 (23.6)	1000 (39.4)		943 (37.1)	980 (38.5)		440 (17.3)	480 (18.8)		380 (14.9)	580 (19.2)				

※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 BLOCKS FOR MC; VACUUM CHUCKS; PROMETA*; SINE BAR CHUCKS; BLOCKS, HOLDERS; MINI CHUCKS; HOLDING TOOLS; MEASURING TOOL HOLDERS; MAGNETIC TOOLS

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

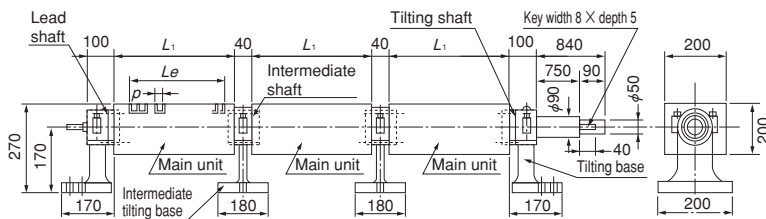
Environmentally friendly



KET-UTFS

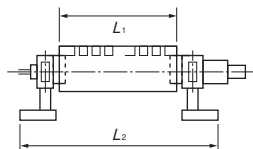
Chuck controller required additionally

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.

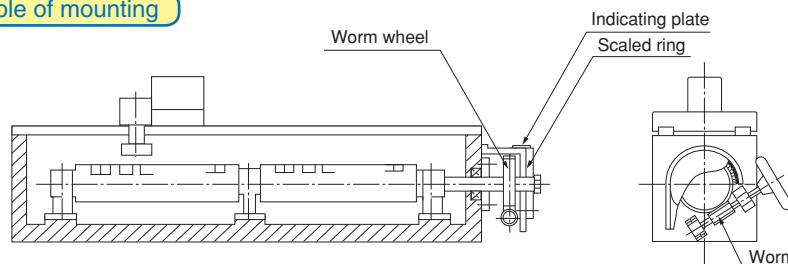
[Features]

- 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.

(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

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



[Application]

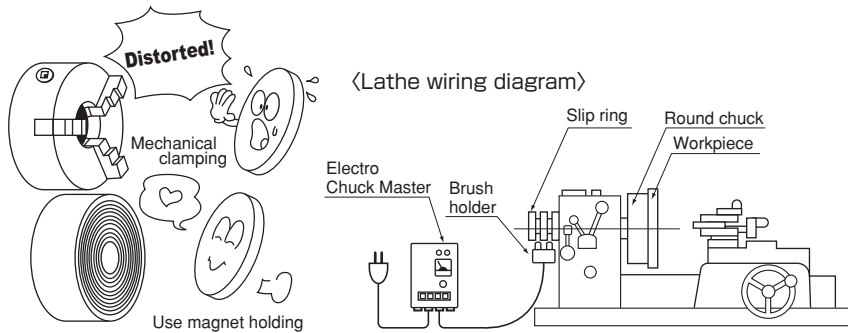
Suitable for grinding and cutting operations with the chuck mounted on such machine tools as rotary grinders, lathes, turning machines and rotary milling machines that rotate workpieces to machine. This model comes in two types; ring pole and star pole according to the patterns on the chuck work face.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

[Features]

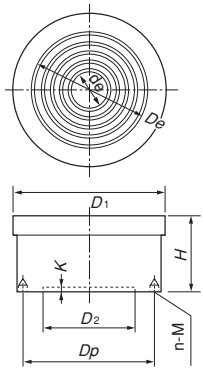
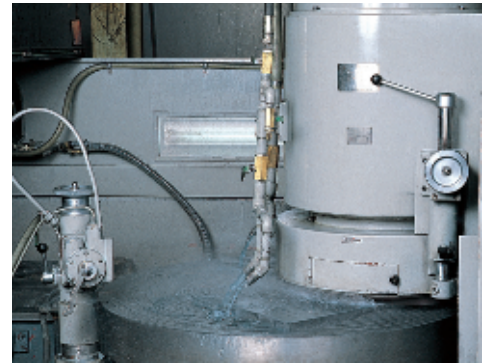
- Relatively thin workpieces that are likely to be distorted by mechanical clamping can be held by uniform holding power of the ring pole type for highly precise machining.
- For such operations as cutting thick workpieces, the star pole type is recommended that generates strong holding power.

Chuck controller required additionally

Feeder required additionally (See below)



An example of installation on a vertical grinder



Ring-Pole Type

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)	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)		140 (5.51)			M 8 (0.31)							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)		178 (7.00)			M 10 (0.39)							224 (8.81)	0.26A 19kg/ 41 lb
KEC- 25ARE	250 (9.84)	250 (9.84)	223 (8.77)		200 (7.87)		224 (8.81)			M 10 (0.39)							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)		280 (11.0)			M 12 (0.47)							355 (13.9)	0.53A 52kg/ 114 lb
KEC- 40ARE	400 (15.7)	400 (15.7)	367 (14.4)		315 (12.4)		355 (13.9)			M 16 (0.62)							450 (17.7)	1.10A 93kg/ 205 lb
KEC- 50ARE	500 (19.6)	500 (19.6)	463 (18.2)		400 (15.7)		450 (17.7)			M 16 (0.62)							560 (22.0)	1.85A 130kg/ 286 lb
KEC- 63ARE	630 (24.8)	630 (24.8)	583 (22.9)		500 (19.6)		560 (22.0)			M 16 (0.62)							710 (27.9)	3.10A 190kg/ 418 lb
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)							M 16 (0.62)	5.10A 370kg/ 815 lb
KEC-100ARE	1000 (39.4)	1000 (39.4)	944 (37.1)		800 (31.5)		900 (35.4)			M 16 (0.62)							110 (4.33)	6.55A 580kg/ 1278 lb

Star-Pole Type

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)	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)			140 (5.51)							M 8 (0.31)	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)			178 (7.00)							M 10 (0.39)	224 (8.81)	0.13A 19kg/ 41 lb
KEC- 25ASE	250 (9.84)	250 (9.84)	223 (8.77)				200 (7.87)			224 (8.81)							M 10 (0.39)	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)			280 (11.0)							M 12 (0.47)	355 (13.9)	0.44A 52kg/ 114 lb
KEC- 40ASE	400 (15.7)	400 (15.7)	367 (14.4)				315 (12.4)			355 (13.9)							M 16 (0.62)	450 (17.7)	0.68A 93kg/ 205 lb
KEC- 50ASE	500 (19.6)	500 (19.6)	463 (18.2)				400 (15.7)			450 (17.7)							M 16 (0.62)	560 (22.0)	1.00A 145kg/ 313 lb
KEC- 63ASE	630 (24.8)	630 (24.8)	583 (22.9)				500 (19.6)			560 (22.0)							M 16 (0.62)	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)			710 (27.9)							8 (0.31)	M 16 (0.62)	1.88A 370kg/ 815 lb
KEC-100ASE	1000 (39.4)	1000 (39.4)	944 (37.1)				800 (31.5)			900 (35.4)							M 16 (0.62)	110 (4.33)	3.92A 580kg/ 1278 lb

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

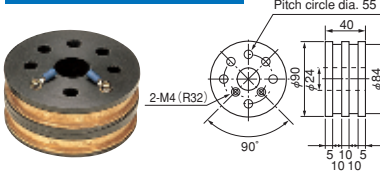
*The chuck controller and clamp parts are not included. The KANETEC chucks work best when a KANETEC chuck controller is used.

Feeder (optional)

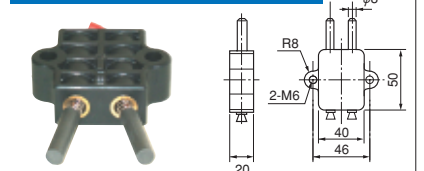
This feeder is required to use the round type electromagnetic chucks. Since the chuck itself is rotated, the feeder cables cannot be connected directly. For this reason, electricity is fed via a slip contact between the carbon brush on the power source side and the slip ring attached to the chuck.

- 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-1A



Model **KETB** AIRUP*

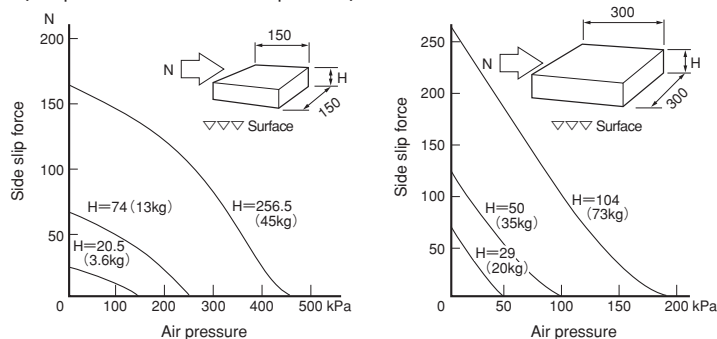
Pneumatic floating type



KETB-3060B

Control unit required additionally

(Air pressure and side slip force)

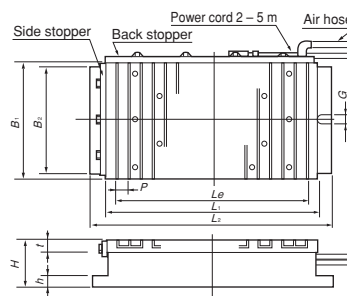


[Application]

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]

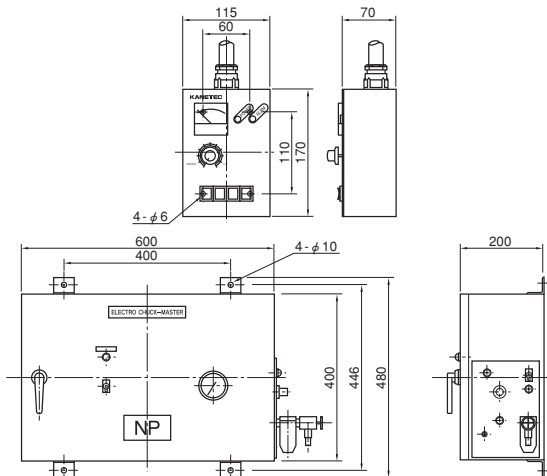
- Workpieces having strong residual magnetism can be separated and floated by the pressure of a small amount of air for easy removal.
- The optimum floating condition can be adjusted according to the material, size and shape of workpieces by increasing/decreasing the air pressure supplied from the control 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)		464(18.2)	14(2+12) (0.55)	194(7.63)	544(21.4)	18(0.70)	92(3.62)	14	0.34A		64kg/ 141 lb	ES-VB305A	The control unit incorporates an air regulator, rectifier and demagnetizer.	
KETB-2060B	200(7.87) × 600(23.6)	200(7.87)	600(23.6)		548(21.5)		600(23.6)					0.47A		77kg/ 169 lb			
KETB-2550B	250(9.84) × 500(19.6)	250(9.84)	500(19.6)		451(17.7)		244(9.60)	500(19.6)		97(3.81)		0.56A	3m(118)	84kg/ 185 lb			
KETB-3060B	300(11.8) × 600(23.6)	300(11.8)	600(23.6)		529(20.8)		290(11.4)	600(23.6)				0.96A		121kg/ 266 lb			
KETB-4050B	400(15.7) × 500(19.6)	400(15.7)	500(19.6)		451(17.7)		500(19.6)					1.09A		141kg/ 310 lb			
KETB-4060B	400(15.7) × 600(23.6)	400(15.7)	600(23.6)		529(20.8)		390(15.3)	600(23.6)				1.74A	5m(196)	169kg/ 372 lb			
KETB-40100B	400(15.7) × 1000(39.4)	400(15.7)	1000(39.4)	42 (1.65)	919(36.1)	19.5(2.5+17) (0.76)	1000(39.4)		20(0.78)	102(4.01)	Clamping (No hole)	0.93A	3m(118)	281kg/ 619 lb			
KETB-5050B	500(19.6) × 500(19.6)	500(19.6)	500(19.6)		451(17.7)		490(19.2)	500(19.6)				1.71A	5m(196)	175kg/ 385 lb			
KETB-50100B	500(19.6) × 1000(39.4)	500(19.6)	1000(39.4)		919(36.1)		600(23.6)					3.10A	3m(118)	351kg/ 773 lb			
KETB-6060B	600(23.6) × 600(23.6)	600(23.6)	600(23.6)		529(20.8)		590(23.2)	600(23.6)				4.23A	5m(196)	253kg/ 557 lb			
KETB-60100B	600(23.6) × 1000(39.4)	600(23.6)	1000(39.4)		919(36.1)		1000(39.4)							422kg/ 930 lb			
KETB-80100B	800(31.5) × 1000(39.4)	800(31.5)	1000(39.4)				790(31.1)	1000(39.4)						562kg/ 1239 lb			

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

ELECTROMAGNETIC CHUCKS

Model KCT WATER-COOLED RECTANGULAR ELECTROMAGNETIC CHUCK

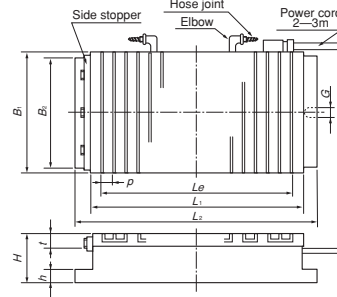
Environmentally friendly

No heat generated



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	Le		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)	14 (0.55)	φ8 (0.31)	90 VDC	0.16A	2m (78.7)	15kg/33 lb	*ES-M103B ES-M305B EH-V305A EH-VE305A P17—P20	*For types with a combination of a rectifier and demagnetizer, see pages of "Chuck Controllers."	
KCT-1325F	125 (4.92) × 250 (9.84)	125 (4.92)	250 (9.84)	21 (0.82)	212 (8.34)	14 (2+12) (0.55)	119 (4.68)	344 (13.5)	25 (0.98)	14 (0.55)	φ8 (0.31)	90 VDC	0.19A	2m (78.7)	19kg/41 lb			
KCT-1530F	150 (5.90) × 300 (11.8)	150 (5.90)	300 (11.8)		240 (9.44)		344 (13.5)	194 (7.63)					494 (19.4)		0.20A			26kg/57 lb
KCT-1535F	150 (5.90) × 350 (13.7)	150 (5.90)	350 (13.7)	25 (0.98)	296 (11.6)	19.5 (2.5+17) (0.76)	394 (15.5)	0.22A	31kg/68 lb									
KCT-1545F	150 (5.90) × 450 (17.7)	150 (5.90)	450 (17.7)		408 (16.0)		494 (19.4)	600 (23.6)	0.29A	39kg/85 lb								
KCT-2040F	200 (7.87) × 400 (15.7)	200 (7.87)	400 (15.7)	25 (0.98)	352 (13.8)	19.5 (2.5+17) (0.76)	444 (17.4)	0.43A	46kg/101 lb									
KCT-2050F	200 (7.87) × 500 (19.6)	200 (7.87)	500 (19.6)		464 (18.2)		544 (21.4)	600 (23.6)	0.34A	57kg/125 lb								
KCT-2060F	200 (7.87) × 600 (23.6)	200 (7.87)	600 (23.6)	25 (0.98)	548 (21.5)	19.5 (2.5+17) (0.76)	600 (23.6)	0.47A	66kg/145 lb									
KCT-2550F	250 (9.84) × 500 (19.6)	250 (9.84)	500 (19.6)		451 (17.7)		500 (19.6)	600 (23.6)	0.56A	80kg/176 lb								
KCT-2560F	250 (9.84) × 600 (23.6)	250 (9.84)	600 (23.6)	25 (0.98)	529 (20.8)	19.5 (2.5+17) (0.76)	600 (23.6)	0.72A	97kg/213 lb									
KCT-3050F	300 (11.8) × 500 (19.6)	300 (11.8)	500 (19.6)		451 (17.7)		500 (19.6)	600 (23.6)	0.68A	93kg/205 lb								
KCT-3060F	300 (11.8) × 600 (23.6)	300 (11.8)	600 (23.6)	25 (0.98)	529 (20.8)	19.5 (2.5+17) (0.76)	600 (23.6)	1.06A	112kg/247 lb									
KCT-4050F	400 (15.7) × 500 (19.6)	400 (15.7)	500 (19.6)		451 (17.7)		500 (19.6)	600 (23.6)	0.96A	132kg/291 lb								
KCT-4060F	400 (15.7) × 600 (23.6)	400 (15.7)	600 (23.6)	25 (0.98)	529 (20.8)	19.5 (2.5+17) (0.76)	600 (23.6)	1.09A	159kg/350 lb									
KCT-5050F	500 (19.6) × 500 (19.6)	500 (19.6)	500 (19.6)		451 (17.7)		500 (19.6)	600 (23.6)	0.93A	167kg/368 lb								
KCT-5060F	500 (19.6) × 600 (23.6)	500 (19.6)	600 (23.6)	529 (20.8)	600 (23.6)	600 (23.6)	1.06A	204kg/449 lb										

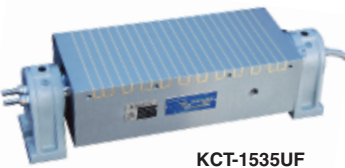
*If the magnetic force needs not be adjusted, use ES-M. *A cooler unit is required additionally.

*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.)

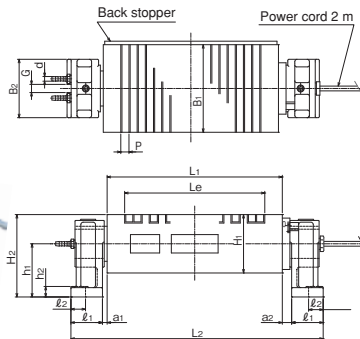
Model KCT-U WATER-COOLED TILT TYPE ELECTROMAGNETIC CHUCK

Environmentally friendly

No heat generated



KCT-1535UF



[Application]

Since no heat is generated when the power is on, this model is 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. This design minimizes temperature rise, thus minimizing 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	Le	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 P17—P20	*For types with a combination of a rectifier and demagnetizer, see pages of "Chuck Controllers."				
KCT-1030UF	100 (3.93) × 300 (11.8)	100 (3.93)	300 (11.8)	255 (10.0)	14 (2+12) (0.55)	95 (3.74)	54 (2.12)	14 (0.55)	432 (17.0)	141 (5.55)			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)		100 (3.93)	25 (0.98)	18 (0.70)	532 (20.9)								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)	100 (3.93)	91 (3.58)	18 (0.70)	432 (17.0)	170 (6.69)			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)		100 (3.93)	25 (0.98)	18 (0.70)	482 (18.9)								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)	91 (3.58)	18 (0.70)	482 (18.9)	170 (6.69)			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)		120 (4.72)	59 (2.32)	20 (0.78)	582 (22.9)								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)	120 (4.72)	20 (0.78)	642 (25.2)	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)		120 (4.72)	59 (2.32)	20 (0.78)	742 (29.2)								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



No heat generated

KCC-35AR

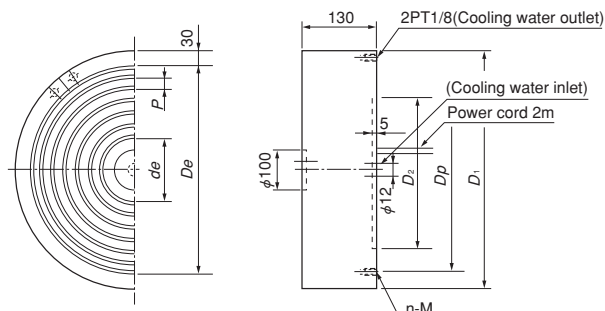
Chuck controller required additionally

[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 ES-M305B EH-V305A EH-VE305A Above models except for the one marked by ※.	※For types with a combination of a rectifier and demagnetizer, see pages of "Chuck Controllers." P17-P20
KCC-40AR	400 (15.7)	400 (15.7)	341 (13.4)	139 (5.47)		250 (9.87)	300 (11.8)	M10 (0.39)				1.00A	108kg/238 lb		
KCC-50AR	500 (19.6)	500 (19.6)	441 (17.3)	183 (7.20)		350 (13.7)	400 (15.7)	M12 (0.47)					1.70A		
KCC-60AR	600 (23.6)	600 (23.6)	541 (21.3)	171 (6.73)		450 (17.7)	500 (19.6)					8 pcs			
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						
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



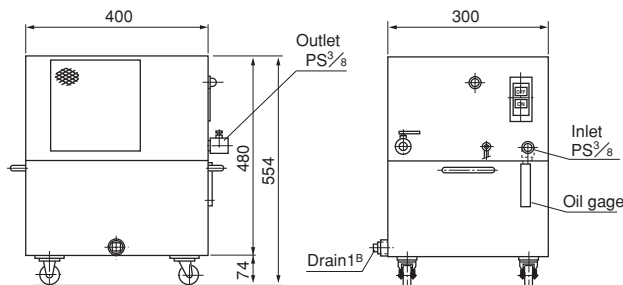
LCU-2

[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-2	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