

Model EP-Q PERMANENT ELECTROMAGNETIC CHUCK FOR MILLING

A Line-up of Products Selectable According to Machining Methods and Workpieces.

■ Revised design reduces electric power consumption providing a more compact size chuck master.

■ The detachable power connector type is provided to respond to pallet changing.



[Application]

Suitable for securing workpieces during cutting on milling machines and machining centers.

[Features]

- Can be used in wet machining operations.
- The chuck is very thin, 70 mm in height, and light weight.
- Less accuracy change and highly robust construction.
- Achieve significant power savings compared to conventional products.
 - 70:50% Reduction, □ 50:70% Reduction

- Magnetization and demagnetization in a very short time.
- Tapped holes on the attractive face can be used to install various blocks to hold workpieces by various methods according to machining operations.
- Straightening blocks are also available that are mounted on the chuck work face to hold workpieces by an induction field. These optional products are very useful for such workpieces of irregular attractive faces that for example have steps and distortion and for machining the bottom and side faces of workpieces.

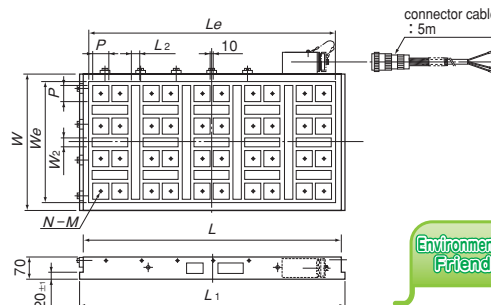
EP-QN



EP-QN7-50100A



Chuck controller required additionally



Environmentally Friendly

[mm(in)]

Standard Size Model	Chuck Work Face		Pole Dimensions				Mounting Face		Attractive Face Thread Hole		Mass	Applicable Chuck Master	
	W	L	We	Le	No. of Poles	P	L ₂	L ₁	N	M			
EP-QN5	3060A	300 (11.8)	610 (24.0)	252 (9.92)	570 (22.4)	24	50 (1.96)	18 (0.70)	16 (0.63)	630 (24.8)	24 (0.94)	8 (0.31)	90kg/198 lb
	4080A	420 (16.5)	800 (31.5)	372 (14.6)	760 (29.9)	40		28 (1.10)	25 (0.98)	820 (32.2)	40 (1.57)		160kg/352 lb
	60100A	600 (23.6)	960 (37.8)	432 (17.0)	917 (36.1)	60		18 (0.70)	26 (1.02)	980 (38.5)	60 (2.36)		230kg/507 lb
EP-QN7	4080A	390 (15.3)	800 (31.5)	332 (13.0)	760 (29.9)	24	70 (2.75)	28 (1.10)	24 (0.94)	820 (32.2)	24 (0.94)	10 (0.39)	150kg/330 lb
	50100A	500 (19.6)	1000 (39.3)	452 (17.8)	960 (37.8)	40			25 (0.98)	1020 (40.1)	40 (1.57)		240kg/529 lb
	60100A	620 (24.4)		572 (22.5)		50					50 (2.36)		300kg/661 lb

※ Turning the permanent electromagnetic chucks on and off must be limited to once per several minutes. If on/off operations are repeated frequently, the chucks may be damaged by overheat.

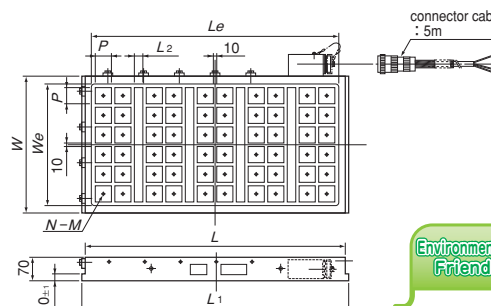
EP-QS



EP-QS3060A



Chuck controller required additionally



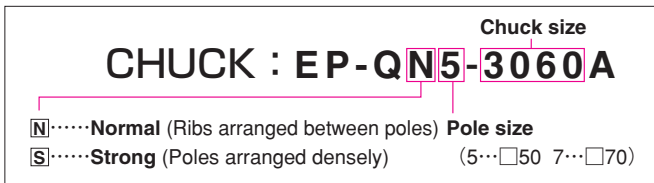
Environmentally Friendly

[mm(in)]

Standard Size Model	Chuck Work Face		Pole Dimensions				Mounting Face		Attractive Face Thread Hole		Mass	Applicable Chuck Master
	W	L	We	Le	No. of Poles	P	L ₂	L ₁	N	M		
EP-QS5	3060A	300 (11.8)	610 (24.0)	252 (9.92)	570 (22.4)	32	50 (1.96)	16 (0.55)	630 (24.8)	32 (1.26)	8 (0.31)	90kg/198 lb
	4080A	420 (16.5)	800 (31.5)	372 (14.6)	760 (29.9)	60		25 (0.98)	820 (32.2)	60 (2.36)		160kg/352 lb
	50100A	500 (19.6)	960 (37.8)	432 (17.0)	917 (36.1)	84		26 (1.02)	980 (38.5)	84 (3.31)		230kg/507 lb
	60100A	600 (23.6)	1000 (39.3)	552 (21.7)	1020 (40.1)	108				108 (4.25)		280kg/617 lb
EP-QS7	3060A	300 (11.8)	600 (23.6)	252 (9.92)	562 (22.1)	18	70 (2.75)	25 (0.98)	620 (24.4)	18 (0.70)	10 (0.39)	86kg/189 lb
	4080A	390 (15.3)	800 (31.5)	332 (13.0)	760 (29.9)	32		24 (0.94)	820 (32.2)	32 (1.26)		150kg/330 lb
	50100A	470 (18.5)	1000 (39.3)	412 (16.2)	960 (37.8)	50		25 (0.98)	1020 (40.1)	50 (1.96)		220kg/485 lb
	60100A	620 (24.4)		572 (22.5)		70				70 (2.75)		300kg/661 lb

※ Turning the permanent electromagnetic chucks on and off must be limited to once per several minutes. If on/off operations are repeated frequently, the chucks may be damaged by overheat.

Model designation



⟨When ordering⟩

- Sizes other than the standard sizes listed in the left-side table are also available.
- The maximum one-piece size is W1300 x L1500 mm. For larger sizes, chucks are to be connected.
- When workpieces are hardened steels or special steels, they may be difficult to dismount due to strong residual magnetism.
- In these cases it is recommended EP-D type (P.33).

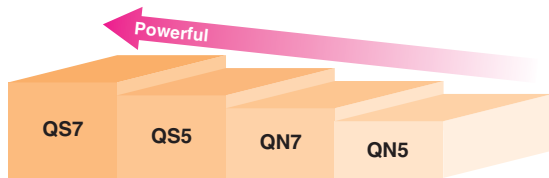
A guide for selection

General milling operations	Good attractive condition such as plate machining.	QN
Planomiller, horizontal M/C, use of straightening blocks, etc.	Poor attractive conditions such as heavy duty cutting	QS

Selection of pole size □50 or □70

- The □70 size is superior in the absolute holding power and gap characteristic.
- The □50 size is recommended for relatively small and thin workpieces. (The plate thickness of magnetic saturation is 20~25 mm for □50 and 30~35 mm for □70.)

Relation between chuck models and holding power



Holding power

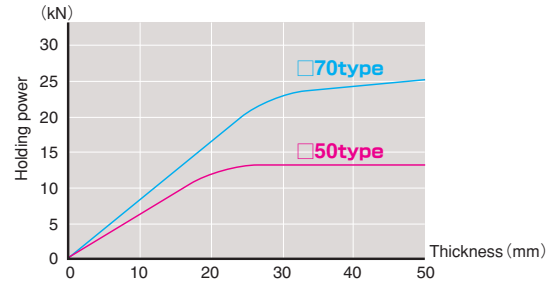
- 50 produces the maximum holding power of 2.94 kN (300 kgf) or over and □70 produces 5.88 kN (600 kgf) or over per pole.

⟨An example of calculation⟩

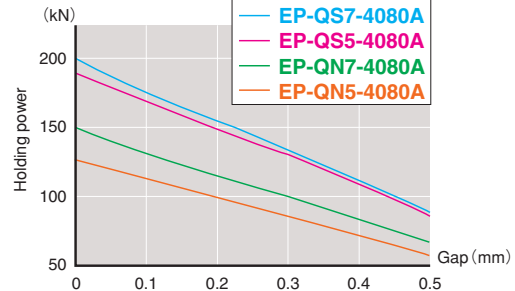
Maximum holding power on entire attractive face of EP-QH50-4080
 $2.94\text{kN} \times 60 \text{ (number of poles)} = 176.4\text{kN} \text{ (18000kgf)}$

EP-Q type holding power characteristic

- Relation between workpiece thickness and holding power. Test piece held by 4 poles.



- Relation between gaps and holding power comparison at whole face adsorption.



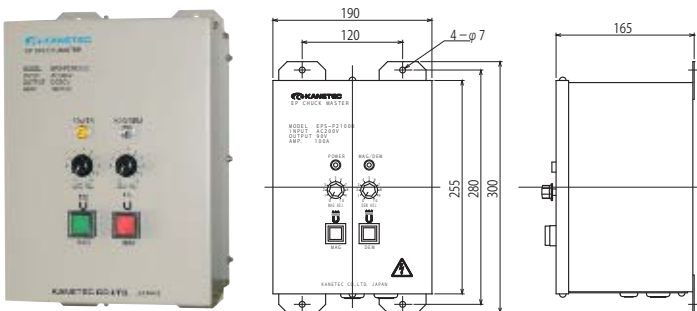
Model of special specification

Model with T-slots available



※For more information, please contact us.

EP Chuck Master* Compact design for limited installation space.



Model	[mm(in)]	
	EPS-P2100B	EPS-P2100B-2
Dimensions (W×H×D)	190 (7.48) × 165 (6.5) × 255 (10.03)	
Power Source	200 VAC 50/60Hz 1 φ	
Output	10~90 VDC Average: 100A	
Output Switchover	No switchover	2
Magnetizing Time(approx.)	1s	3s
Demagnetizing Time(approx.)		
Breaker Capacity (Ref.)	30A	
Mass	7.5kg	7.6kg

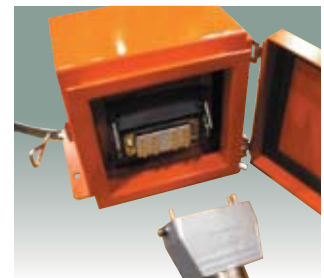
※Power supply cable shall be more than 3.5 mm and less than 10 m.

Options

- ① Straightening blocks for □50 and □70



- ② Separately installed feeder box Recommended for pallet change spec.



Model		Type
□50×H28	□70×H37	
KT-Q50	KT-Q70	Fixed
KT-Q50M	KT-Q70M	Movable

※H-sizes are standard height

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

Model EP-QZ POWERFUL TYPE

Longer size rail is strongly attracted without jig.



EP-QZ8-1550A
an example
of special fabrication

[Application]

For use in milling machines, machining centers e.t.c. for long size rail type work, the work piece is strongly fixed and clamped at once.

[Features]

- Gap attraction is more excellent than such our conventional model of EP-QN/QS type. This chuck is most suitable for such work in which parallel is worse and needs larger attractive force.
- Replacing conventional hydraulic, mechanical clamp, working time can be shortened and productivity improved.
- The alignment of magnetic pole can be made in accordance with shape and length of work piece such as rail.
Exclusive fixing block designed for a particular shape of work piece can be manufactured as an option.
- The same chuck but with brass separators can be manufactured.

[mm (in)]

Model	MAX.Holding Power	Pole Size	No.of Poles ¹	Features	Electro Chuck Master
EP-QZ8-15100A	75 (□2.95) 750kgf	□75 (□2.95)	5 (0.19)	Single type	EPS-P2100B
EP-QZW-30100A	50 (□1.96) 300kgf	□75 (2.95) + □50 (1.96)	10 (□75) + 14 (□50) 0.39 (□2.95) + 0.55 (□1.96)	Double type	EPS-P2100B-2

Model EP-D ELECTRO PERMANENT MAGNETIC CHUCK FOR MILLING EQUIPPED WITH DEMAGNETIZING FUNCTION

Strong attractive force and good release performance are achieved.



EP-D3060

Electro Chuck master is separately needed.

[Application]

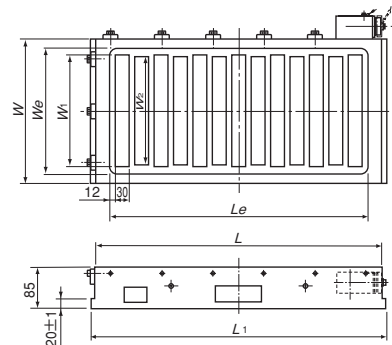
This chuck is most suitable to hold work for milling by milling machine, machine center.

[Features]

- Releasing performance of a work piece has been tremendously improved by coils exclusively designed for reduction of magnetization.
- Magnetic pole pattern design producing concentrated magnetism on the work piece resulting in strong holding force.
- Better releasing performance is achieved in comparison with conventional electro-permanent magnetic chuck, for annealed steel or special steel, on which residual magnetism is large.
- Because electricity supply is necessary only when holding or releasing a work piece, no internal heat is generated resulting in higher accuracy and power cost savings.
- This chuck is workable for wet operation.

[mm (in)]

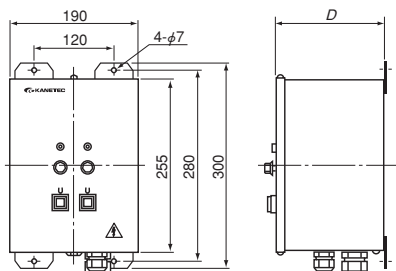
Model	Top Plate		Dimensions				Bottom Plate	Mass	Electro Chuck Master
	W	L	W _e	L _e	W ₁	W ₂			
EP-D 3060	304 (11.9)	618 (24.3)	264 (10.3)	558 (21.9)	240 (9.44)	232 (9.13)	638 (25.1)	110kg (242)	EPS-D2100A
	404 (15.9)	786 (30.9)	364 (14.3)	726 (28.5)	340 (13.3)	332 (13.0)	806 (31.7)	185kg (407)	
EP-D50100	504 (19.8)	1038 (40.8)	464 (18.2)	978 (38.5)	440 (17.3)	432 (17.0)	1058 (41.6)	305kg (672)	EPS-D2100A-2
EP-D60100	604 (23.7)		564 (22.2)		240 (9.44) × 2 (0.07)	232 (9.13) × 2 (0.07)		365kg (804)	



※ Turning the permanent electromagnetic chucks on and off must be limited to once per several minutes. If on/off operations are repeated frequently, the chucks may be damaged by overheat.



EPS-D2100A



[mm (in)]

Model	Dimensions (W×D×H)	Power Source	Output	Output Switchover	Magnetizing Time (Approx.)	Demagnetizing Time (Approx.)	Breaker Capacity (Ref.)	Mass
EPS-D2100A	190×165×255 (7.48)×(6.49)×(10.0)	200VAC 50/60Hz	10~90VDC Average :100A	No Switchover	1S	4S	30A	7.5kg (16.5)
EPS-D2100A-2	190×200×255 (7.48)×(7.87)×(10.0)	1 φ		2	3S	6S		8kg (17.6)

Model **EPC** CIRCULAR TYPE

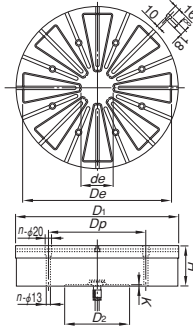
Revolutionary Electro Permanent Chuck

Adjustment of stronger and weaker magnetic force is possible.



EPC-50AS-S

Electro Chuck master is separately needed



[Application]

Designed for application processes of large ring shape work piece as bearing, e.t.c., by lathe, turning, cylindrical, rotary grinding machine, e.t.c.

[Features]

- Exclusive chuck controller provides adjustable strong and weak magnetic force.
- As almost no internal heat is generated, deformation by heat is eliminated with higher accuracy achieved.
- responding to wet operation.
- With T slot, it can respond to various work pieces.

Larger chuck sizes of dia. more than 1,200mm is possible to be manufactured.

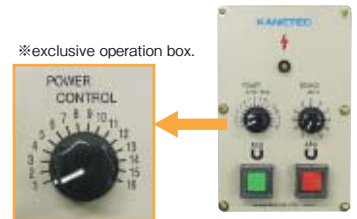
Model	Nominal Dimensions	Top Plate			No. of Poles	Bottom Plate			Height H	Voltage	Current	Mass	Electro Chuck Master
		D ₁	D _e	d _e		D ₂	K	n					
EPC- 50AST	500(19.6)	500(19.6)	460(18.1)	100(3.93)	8	200(7.87)	5(0.19)	8(0.31)	300(11.8)	125(4.92)	DC180V	EPS-RW230A	
EPC- 70AST	700(27.5)	700(27.5)	656(25.8)	120(4.72)									400(15.7)
EPC- 90AST	900(35.4)	900(35.4)	850(33.4)	200(7.87)	12	500(19.6)	12(0.47)	700(27.5)	140(5.51)	140(5.51)	DC180V	EPS-RW250A	
EPC-120AST	1200(47.2)	1200(47.2)	1150(45.2)	300(11.8)									650(25.5)

*Slip Ring (including carbon brush) sold separately.

NOTE: Supporting bar for brush holder of slip ring by the Customer.

NOTE: On/off operations of this EP Chuck should be made once in several minutes pause.If power on/off is repeated frequently, it can cause damage by overheat.

Model	Power Source	Output		Bottom Plate			Mass
		Voltage	Current	Width	Height	Depth	
EPS-RW230A	AC200V (50/60Hz)	DC180V (16step)	30A	400(15.7)	480(18.8)	190(7.48)	15kg/33.0 lb
EPS-RW250A			50A				35kg/77.1 lb
EPS-RW275A			75A				



*exclusive operation box.

Model **EPC-Z** POWERFUL CIRCULAR TYPE

To support ring shape work pieces such as various bearing for industries of construction machine, ship building, nuclear, wind mill power generation.



EPC-Z90

Electro Chuck master is separately needed

[Application]

suitable for processing such ring shape work pieces as bearing by lathe , turning, cylindrical, rotary grinding machine, e.t.c.

[Features]

- By designing a magnetic pole structure suitable for milling, stronger magnetic forces are achieved. Suitable for milling, to which the load is large.
- Due to rectangular magnetic pole, stable magnetic force is produced regardless of work size.
- With optional adapter block with T slot, it is possible to hold and attract various work pieces of smaller diameter to larger diameter.
- Work piece can be processed with use of equipping block from any direction. In addition, maintenance cleaning out of feed cutting waste can be done easily.

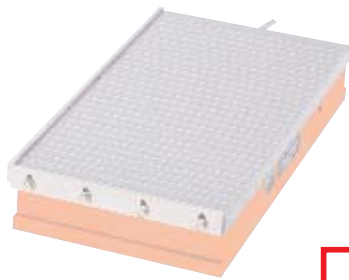
Model	Dimensions	No. of Poles	Applicable Diameter		Mass	Electro Chuck Master
			Min.Diameter	Max.Diameter		
EPC-Z60	φ 640(25.1) × 90(3.54)	14(0.55)	250(9.84)	600(23.6)	170kg/ 374 lb	EPS-PZ2100A-2
EPC-Z90	φ 950(37.4) × 90(3.54)	28(14+14)(1.10)		900(35.4)	410kg/ 904 lb	EPS-PZ2100A-4
EPC-Z120	φ 1250(49.2) × 90(3.54)			1200(47.2)	725kg/1598 lb	EPS-PZ2100A-6
EPC-Z150	φ 1550(61.0) × 110(4.33)	44(22+22)(1.73)	500(19.6)	1500(59.0)	1280kg/2822 lb	EPS-PZ2100A-8
EPC-Z180	φ 1850(72.8) × 110(4.33)	43(16.9)	800(31.4)	1800(70.8)	1580kg/3483 lb	EPS-PZ2100A-10
EPC-Z200	φ 2050(80.7) × 110(4.33)	50(1.96)	1000(39.3)	2000(78.7)	1800kg/3969 lb	EPS-PZ2100A-10

*The power is supplied through the metal connection cable(with confirmation signal of cable connection)from the chuck side.

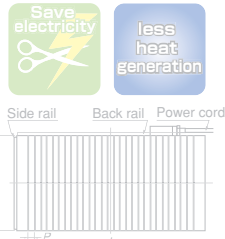
Model	Power source	Output		Breaker Capacity	Dimensions			Mass	
		Voltage	Current		Width	Height	Depth		
EPS-PZ2100A-2	AC200V (50 / 60Hz)	DC90V × 2switching	Pulse100A (Per switching)	30A	450(17.7)	450(17.7)	200(7.87)	15kg/33.0 lb	
EPS-PZ2100A-4								250(9.84)	35kg/77.1 lb
EPS-PZ2100A-6									40kg/88.2 lb
EPS-PZ2100A-8									50kg/110 lb
EPS-PZ2100A-10								80kg/176 lb	

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

Model EPT STANDARD TYPE



EPT-3060



Save electricity
less heat generation

[Application]

Most suitable for highly accurate grinding such as precision grinding and slicing.

[Features]

- Electricity is applied momentarily only to control the magnetomotive force when mounting and dismounting workpieces, minimizing heat generated internally to ensure high precision machining operations.
- Electricity needs not be applied continuously even when holding workpieces, helping reduce running costs.
- The holding power is maintained by the permanent magnet in the event of

Chuck controller required additionally

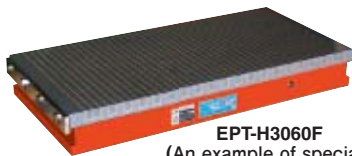
Please refer to N-6 page of 2015 NEW PRODUCTS GUIDE

an example of large size fabrication

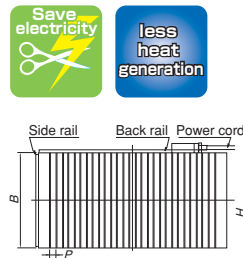
Model	Nominal Dimensions	Top Plate				Pole Pitch <i>P</i>	Bottom Plate		Height <i>H</i>	Voltage	Current	Power Cord	Mass	Electro Chuck Master
		<i>B</i>	<i>L</i>	<i>Le</i>	<i>t</i>		<i>L₂</i>	<i>h</i>						
EPT-1530D	150(5.90) × 300(11.8)	150(5.90)	300(11.8)	240(9.44)	20.5(0.80)	14(2+12)	300(11.8)	20(0.78)	80(3.15)	180 VDC	0.9	2m(78.7)	24kg/ 52 lb	EPH-LW205B EPH-LWE205B EPS-W215B
EPT-1535D	150(5.90) × 350(13.7)		350(13.7)	296(11.6)		0.55(0.07+0.47)	350(13.7)							
EPT-1545D	150(5.90) × 450(17.7)		450(17.7)	380(14.9)		500(19.6)								
EPT-2050D	200(7.87) × 500(19.6)	200(7.87)	500(19.6)	436(17.1)	25.0(0.98)	19.5(2.5+17)	500(19.6)	25(0.98)	100(3.93)	180 VDC	3.4	3m(118)	66kg/ 145 lb	
EPT-2060D	200(7.87) × 600(23.6)		600(23.6)	548(21.5)		600(23.6)								
EPT-3060D	300(11.8) × 600(23.6)	300(11.8)	600(23.6)	529(20.8)	25.0(0.98)	0.76(0.09+0.66)	800(31.5)	25(0.98)	100(3.93)	180 VDC	2.8	5m(196)	140kg/ 308 lb	
EPT-4080D	400(15.7) × 800(31.5)		800(31.5)	724(28.5)		1000(39.3)	919(36.1)						1000(39.3)	
EPT-40100D	400(15.7) × 1000(39.3)	400(15.7)	800(31.5)	724(28.5)	25.0(0.98)	0.76(0.09+0.66)	800(31.5)	25(0.98)	100(3.93)	180 VDC	7.4	5m(196)	211kg/ 465 lb	
EPT-50100D	500(19.6) × 1000(39.3)		1000(39.3)	919(36.1)		1000(39.3)	919(36.1)						1000(39.3)	

*1: A 90V model is also available. Please contact us. *2: The chuck controller and clamp parts are not included. The KANETEC chucks work best when a KANETEC chuck controller is used.
*Turning the permanent electromagnetic chucks on and off must be limited to once per several minutes. If on/off operations are repeated frequently, the chucks may be damaged by overheat.

Model EPT-H POWERFUL TYPE



EPT-H3060F
(An example of special fabrication)



Save electricity
less heat generation

[Application]

Most suitable for highly accurate grinding such as precision grinding and slicing.

[Features]

- It has the structure, which generates stronger magnetic force than standard type (EPT-F type) and therefore, it fixes a work piece strongly even during milling work for which processing load is heavy.

NOTE: The dimension L2 has not been machined together with the dimension L and some variation exists.

Chuck controller required additionally

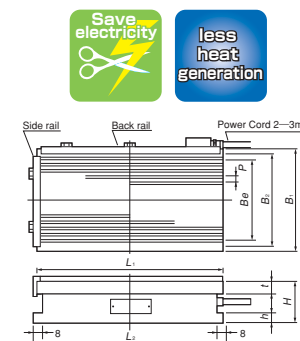
Model	Nominal Dimensions	Top Plate				Pole Pitch <i>P</i>	Bottom Plate		Height <i>H</i>	Voltage	Power Cord	Mass	Electro Chuck Master
		<i>B</i>	<i>L</i>	<i>Le</i>	<i>t</i>		<i>L₂</i>	<i>h</i>					
EPT-H1530F	150(5.90) × 300(11.8)	150(5.90)	300(11.8)	240(9.44)	30(1.18)	14(2+12)	300(11.8)	20(0.78)	100(3.93)	DC180 V	2m(78.7)	30kg/ 66.1 lb	EPS-W215B
EPT-H2050F	200(7.87) × 500(19.6)	200(7.87)	500(19.6)	436(17.1)		0.55(0.07+0.47)	500(19.6)						
EPT-H3060F	300(11.8) × 600(23.6)	300(11.8)	600(23.6)	529(20.8)		19.5(2.5+17)	600(23.6)						
EPT-H4080F	400(15.7) × 800(31.5)	400(15.7)	800(31.5)	724(28.5)	0.76(0.09+0.66)	800(31.5)	20(0.78)	100(3.93)	DC180 V	5m(196)	215kg/ 474 lb		
EPT-H50100F	500(19.6) × 1000(39.3)	500(19.6)	1000(39.3)	919(36.1)	1000(39.3)	1000(39.3)					335kg/ 738 lb		

*The chuck controller and clamp parts are not included. The KANETEC chucks work best when a KANETEC chuck controller is used.
*Turning the permanent electromagnetic chucks on and off must be limited to once per several minutes. If on/off operations are repeated frequently, the chucks may be damaged by overheat.

Model EPTW MICROPITCH TYPE



EPTW-1530



Save electricity
less heat generation

[Application]

Suitable for precision grinding on grinders and for holding thin and thick workpieces having a large area.

[Features]

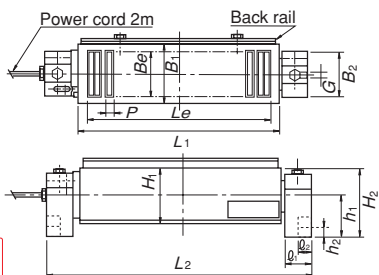
- Thanks to finer pole pitches on the chuck work face, these chucks hold thin and wide workpieces firmly.
- Electricity is applied momentarily only to control the magnetomotive force when mounting and dismounting workpieces, minimizing heat generated internally to maintain accuracy.
- Electricity needs not be applied continuously even when holding workpieces, helping reduce running costs.
- The holding power is maintained in the event of power failure or cable breakage, thus improving safety.

Chuck controller required additionally

Model	Nominal Dimensions	Top Plate				Pole Pitch <i>P</i>	Bottom Plate		Height <i>H</i>	Voltage	Power Cord	Mass	Electro Chuck Master
		<i>B₁</i>	<i>L₁</i>	<i>t</i>	<i>B_e</i>		<i>B₂</i>	<i>L₂</i>					
EPTW-1530	150(5.90) × 300(11.8)	150(5.90)	300(11.8)	20(0.78)	4(0.8+3.2)	148(5.82)	300(11.8)	18(0.70)	95(3.74)	90 VDC	2m(78.7)	29kg/ 63 lb	EPS-215B
EPTW-1545	150(5.90) × 450(17.7)		450(17.7)	125(4.92)		450(17.7)							
EPTW-2040	200(7.87) × 400(15.7)		400(15.7)	173(6.81)		400(15.7)							
EPTW-2050	200(7.87) × 500(19.6)	200(7.87)	500(19.6)	25(0.98)	198(7.79)	500(19.6)	20(0.78)	120(4.72)	90 VDC	3m(118)	82kg/ 180 lb		
EPTW-2560	250(9.84) × 600(23.6)		600(23.6)	217(8.54)	248(9.76)	600(23.6)							
EPTW-3060	300(11.8) × 600(23.6)	300(11.8)	600(23.6)	300(11.8)	269(10.5)	298(11.7)	20(0.78)	120(4.72)	90 VDC	3m(118)	147kg/ 324 lb		

*The chuck controller and clamp parts are not included. The KANETEC chucks work best when a KANETEC chuck controller is used.
*Turning the permanent electromagnetic chucks on and off must be limited to once per several minutes. If on/off operations are repeated frequently, the chucks may be damaged by overheat.

Model **EPZ-U** ROTARY TYPE



[Application]

Suitable for angle grinding on grinders. Easy installation.

[Features]

- The scaled rotary shaft facilitates angle setting.
- Electricity is applied momentarily only to control the magnetomotive force when mounting and dismounting workpieces, minimizing heat generated internally to ensure high precision machining operations.
- Electricity needs not be applied continuously even when holding workpieces, helping reduce running costs.
- The holding power is maintained in the event of power failure or cable breakage, thus improving safety.



EPZ-1030UF

Chuck controller required additionally

Model	Nominal Dimensions	Top Plate			Pole Pitch		Rotary Stand				Length	Height	Voltage	Mass	Electro Chuck Master		
		B ₁	L ₁	B _e	L _e	H ₁	P	B ₂	ℓ ₁	ℓ ₂	G	L ₂				H ₂	
EPZ-1025UF	100 (3.93) × 250 (9.84)		250 (9.84)	78 (3.07)	211 (8.30)	100	11 (2+9)					80 (3.15)	15	368 (14.4)	130 (5.11)	22kg/ 48 lb	EPS-215B
EPZ-1030UF	100 (3.93) × 300 (11.8)	100 (3.93)			255 (10.0)		0.43 (0.07+0.35)	100	50	29	14					24kg/ 52 lb	
EPZ-1230UF	120 (4.72) × 300 (11.8)	120 (4.72)	300 (11.8)	96 (3.78)	240 (9.44)	(3.93)	14 (2+12)	(3.93)	(1.96)	(1.14)	(0.55)	95 (3.74)	(0.59)	418 (16.4)	145	30kg/ 66 lb	
EPZ-1530UF	150 (5.90) × 300 (11.8)			120 (4.72)	408 (16.0)		0.55 (0.07+0.47)							568 (22.3)	(5.70)	37kg/ 81 lb	
EPZ-1545UF	150 (5.90) × 450 (17.7)	150 (5.90)	450 (17.7)													52kg/ 114 lb	

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

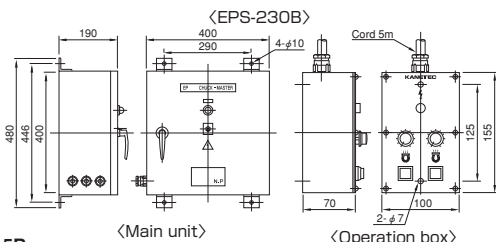
※Turning the permanent electromagnetic chucks on and off must be limited to once per several minutes. If on/off operations are repeated frequently, the chucks may be damaged by overheat.

Model **EPS** EP CHUCK MASTER*

Power source for permanent electromagnetic chucks



EPS-215B



[Application]

Rectifies an input from the AC power source to DC and momentarily outputs exciting current to permanent electromagnetic chucks. The automatic demagnetization circuit is activated to reduce residual magnetism in permanent electromagnetic chucks.

[Features]

- This chuck master is designed for use with electro permanent models : EPT, EPT-H, EPTW, and EPZ-U.
- Microcomputer control ensures effective automatic demagnetization.
- Adjustable holding power.

General models

Model	Power Source	Output		Dimensions			Mounting			Mass	Operating box			
		Voltage	Current	Width	Depth	Height	Width	Height	Hole		Width	Depth	Height	Cord
EPS-215B	Single-phase 200 VAC (50/60Hz)	20— 90 VDC	15A	180 (7.08)	130 (5.11)	250 (9.84)	120 (4.72)	275 (10.8)	4-φ 7 (0.27)	4.7kg/10.3 lb	—	—	—	—
EPS-230B			30A	400 (15.7)	190 (7.48)	400 (15.7)	290 (11.4)	446 (17.5)	4-φ 10 (0.39)	18.3kg/40.3 lb	100 (3.93)	70 (2.75)	155 (6.10)	5m (196)
EPS-W215B		40—180 VDC	15A	180 (7.08)	130 (5.11)	250 (9.84)	120 (4.72)	275 (10.8)	4-φ 7 (0.27)	4.7kg/10.3 lb	—	—	—	—

※The applicable models are limited to EPT, EPT-H, EPTW and EPZ-U.

Model **EPH-LW** EP CHUCK MASTER*

Low magnetic force control function



EPH-LW205B

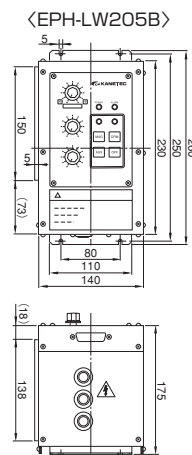
[Application]

The use of the low magnetic force control function enables straightening operations as with electromagnetic chucks.

The use of the low magnetic force control function facilitates positioning of workpieces. (The low magnetic force control requires electricity to be supplied continuously. When used under low magnetic force control for long hours, accuracy change due to heat generated in the permanent electromagnetic chuck may slightly affect the machining accuracy.)

[Features]

These Chuck Masters enable it to control the low magnetic force (weak holding power), which is difficult with permanent electromagnetic chucks. When a conventional permanent electromagnetic chuck is used, it is necessary to turn it off once and after lowering the magnetizing voltage, turn it on again in order to set a low magnetic force for straightening grinding operations. These Chuck Masters have a control function by which the power can be applied continuously only in the low output region, which makes it possible to finely and continuously adjust the low magnetic force region as with electromagnetic chucks. They offer a capability of straightening grinding with permanent electromagnetic chucks. Workpieces can also be positioned smoothly with the low magnetic force control.



Model	Power Source	Output		Dimensions			Chuck Master	Mass
		Voltage	Current	Width	Height	Depth		
EPH-LW205B	Single-phase 200 VAC 50/60Hz	Permanent electromagnetic: 0—180 VDC (2sec) Low magnetic force: ±0—60 VDC (continuous)	5A	140 (+ 5) 5.51 (+0.19)	230 (9.05)	175 (6.89)	Approx. 4.7kg/10.3 lb	Operated from main unit panel.
140 (+30) 5.51 (+1.18)								
EPH-LWE205B				10A	220 (+30) 8.66 (+1.18)	250 (9.84)	Approx. 6.0kg/13.2 lb	Approx. 0.6kg/1.3 lb

※Non-contact Chuck Masters (with low magnetic force control) of permanent electromagnetic chucks (180 VDC version).

※The low magnetic force control is possible when used in combination with the permanent electromagnetic chuck Model EPT-LW.

※Three types; rated output of 180 VDC-5A, 180 VDC-5A (with operation box) and 180 VDC-10A (with operation box) are available.

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