

PERMANENT ELECTROMAGNETIC CHUCKS

Model **EPS** EP CHUCK MASTER*

Control unit for permanent electromagnetic chucks



EPS-215B

EPS-GWB230A

[Application]

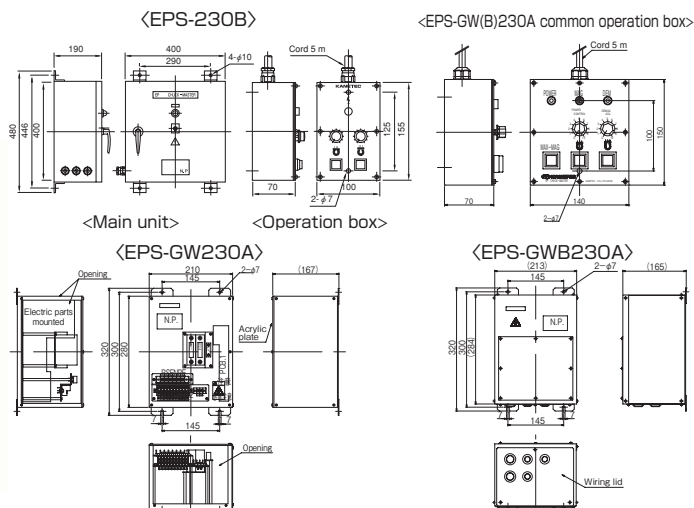
Rectifies an input from an AC power source to DC and momentarily outputs exciting current to permanent electromagnetic chucks. The automatic demagnetization circuit is activated to reduce residual magnetism of permanent electromagnetic chucks.

[Features]

- The EP Chuck Master* is dedicated to permanent electromagnetic chucks and can be used for EPT, EPT-H, EPTW, EPTW-N, EPZ-U and EPC-ARF.
- The microcomputer control ensures very effective automatic demagnetization.
- The holding power is adjustable.
- Model EPS-GW (B) is of external operation type.

<Major features>

- EPS-GW is installed inside the machine panel and EPS-GWB is installed outside the panel and both of them are equipped with a remote operation box.
- Compared with the conventional type, the volume has been reduced to about a third.
- The workability and operability such as wiring, fuse replacement, switchover of voltage between 200 VAC and 220 VAC and output voltage/demagnetizing time adjustment have been improved.



General type

Model	Power Source	Rated Output		Dimensions			Mounting Dimensions		Mass	Operation box				
		Voltage	Current	Width	Depth	Height	Width	Height		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			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-GW230A	Single-phase 200/220 VAC (50/60Hz)	40-180 VDC	30A	210 (8.26)	167 (6.57)	280 (11.0)	145 (5.70)	300 (11.8)	2-φ 7 (0.27) (2 - width 7)	7.0kg/15.4 lb	140 (5.51)	70 (2.75)	150 (5.90)	5m (196)
EPS-GWB230A				213 (8.38)	165 (6.49)	284 (11.1)				9.0kg/19.8 lb				

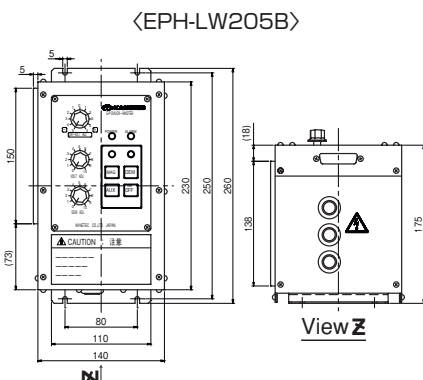
*The applicable models are EPT, EPT-H, EPTW, EPTW-N, EPZ-U and EPC-ARF only. **EPS-GW (B) 230A is used as a control unit for the connection of same models or specially ordered large chucks.

Model **EPH-LW** NON-CONTACT TYPE 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 with the low magnetic force control function activated for long hours, accuracy change due to heat generated in the permanent electromagnetic chuck itself 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 possibility of straightening grinding with permanent electromagnetic chucks. Workpieces can also be positioned smoothly with the low magnetic force control.

Model	Power Source	Rated Output		Dimensions			Mass		
		Voltage	Current	Width	Height	Depth	Chuck Master	Operation box	
EPH-LW205B	Single-phase 200 VAC 50/60Hz	Permanent electromagnetic: 0 - 180 VDC (2 sec.) 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
EPH-LWE205B				220 (+30)	8.66 (+1.18)	250 (9.84)		Approx. 4.5kg/ 9.9 lb	Approx.0.6kg/1.3 lb
EPH-LWE210B				10A	—	—		—	

*Non-contact type Chuck Masters (with low magnetic force control) for 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.