

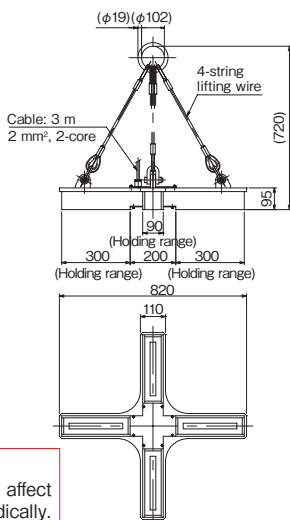
Model **LM-X** CROSS TYPE ELECTROMAGNETIC LIFMA*

Lifma specially designed for doughnut-shaped workpieces!

Control unit required additionally



LM-X800



[Application]

Designed for moving and transporting workpieces that have a doughnut shape or concave part in the center

[Features]

- The employment of a cross-type magnet enables one unit of the Lifma to move and transport workpieces that have a doughnut shape or concave part in the center that used to require several units of the Lifma.
- Capable of transporting flat steel plates and specified-length steel plates also.

A special size is also available.

Working rate 50% ED (Repeating cycle of power on 5 minutes and pause 5 minutes)

Model	Dimensions [mm (in)]			Voltage	Current	Power Consumption	Mass	Applicable Rectifier
	Width	Depth	Height					
LM-X800	820 (32.2)	820 (32.2)	95 (3.74)	180 VDC	4.4A	0.79kW	70kg/154 lb	RH-MW210B

[Sizes of workpieces that can be lifted]

- Workpieces having a doughnut shape or concave part in the center (mill scale): Max. $\phi 800 \times \phi 270 \times 1145$ mm
- Flat steel plates (holding direction specified): ① 16 - 50 × □1300 ($\phi 1300$) and ② 16 - 22 × □2000 ($\phi 2000$) mm
- Specified-length steel plates (holding direction specified): Nominal 3 × 6 plate: thickness 6 - 50 × 914W × 1829L
Nominal 4 × 6 plate: thickness 6 - 28 × 1219W × 2438L
Nominal 5 × 8 plate: thickness 6 - 22 × 1524W × 2438L

! **Precaution for use**

Rust and scratches on the attractive face affect the holding power adversely. Repair it periodically.

Model **KR-A·P / RH-MW** RECTIFIER FOR ELECTROMAGNETIC LIFMA*



RH-MW205B



KR-P203

[Application]

These units rectify an input from an AC power source to DC and output it to the electromagnetic Lifma. All electromagnetic Lifmas require the use of a rectifier. Three models are available; KR-P, A, RH-MW. Select a suitable model according to your purpose of usage.

■ RH-MW <Rectifier with demagnetization circuit>

When workpieces with a flat attractive face or made of material which tends to retain residual magnetism such as FC are lifted, it is difficult to release them only by turning off the power. In such a case, they need to be demagnetized to cancel the residual magnetism.

[Features]

- The voltage can be varied in a range of 0 to 180V.
- External control input terminals are provided.
- An overcurrent protection function is incorporated.

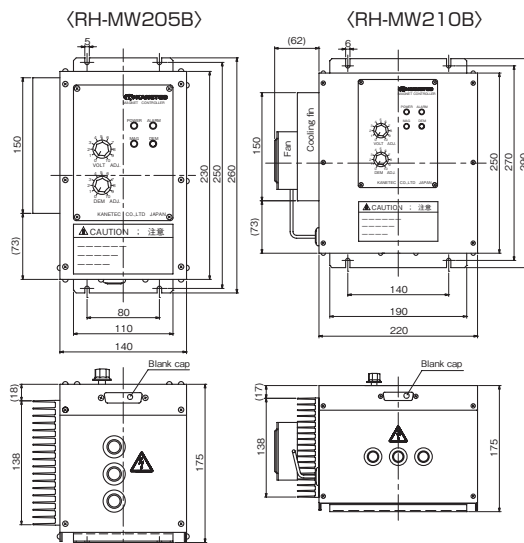
! **Precaution for use**

● The rectifier KR Series and RH Series use electronic PC boards and small relays inside the rectifiers and therefore, are not suitable for use, for example, on cranes where they are subjected to vibrations constantly. For installation in places that are subjected to constant vibrations, anti-vibration measures need to be provided. The external signal input cables must be shielded cables and must be limited to 10 m long max.

● For failures due to use of lifting magnets made by other manufacturers, we may not be able to answer technical questions. Such use also voids the warranty even if a failure occurs within the warranty period.

Model	Input	Output		Dimensions [mm (in)]			Remote Switch	Ammeter	Demag. Function	Mass	
		Voltage	Current	Capacity	Width	Depth					Height
KR-P203	Single-phase 200 VAC, 50/60 Hz	180 VDC	3A	540W	200 (7.87)	90 (3.54)	250 (9.84)	○	×	×	3 kg/ 6.6 lb
KR-P208			8A	1440W							
KR-A203			3A	540W							
KR-A208			8A	1440W							
RH-MW205B	0-180 VDC	5A	900W	140 (5.51)	175 (6.89)	260 (10.2)	×	○	(Demag.)	4.5kg/ 9.9 lb	
RH-MW210B		10A	1800W	282 (11.1)		290 (11.4)				6 kg/ 13.2 lb	

*External operation is required to turn on and off Model KR-A and Model RH-MW. Input signals must be provided by the customer. *For the terminal wiring diagram of RH-M, see page 79.

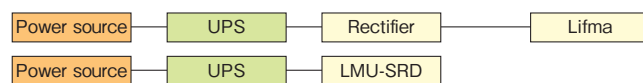


Model **LBB** UNINTERRUPTIBLE POWER SUPPLY

In some cases, the installation of an uninterruptible power supply (UPS) is requested for use of the electromagnetic Lifma as a safety measure in the event of power failure. This UPS needs to be fabricated according to types of rectifiers and required output capacity. Please consult with us in advance.

*The cooler is of fluorocarbon-free type. For more information, please contact us.

■ Connection diagram



! Keep in mind that the capacity of the Lifma varies largely depending on the thickness and material of workpieces, clearance and other factors.