

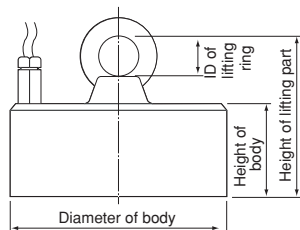
Model **LMU** SMALL ELECTROMAGNETIC LIFMA*



LMU-20D

Indoor specification

Rectifier required additionally



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

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

[Application]

Electromagnetic type lifting magnets used as a lifting section of cranes and hoists for transportation of steel materials in warehouses and machining shops or for loading and unloading workpieces to and from machine tools.

[Features]

- Attracting and releasing workpieces can be controlled electrically by remote operation.
- Small but strong electromagnetic power.
- A wide range of applications; transporting small workpieces with a single unit to transporting large steel plates with multiple units attached to beams controlled together.
- When an uninterruptible power supply is used, safety can be ensured in the event of unexpected power failure.
- The applicable rectifier is KR or RH-MW.

Maximum allowable number of small electromagnetic Lifmas LMU and waterproof electromagnetic Lifmas LMU-UW for Rectifier KR·RH

Rectifier	Small electromagnetic Lifma				
	LMU-10D	LMU-15D LMU-UW15	LMU-20D LMU-UW20	LMU-25D LMU-UW25	LMU-30D
KR-P203	6	4	3	2	1
KR-A203					
KR-P208	16	10	8	5	4
KR-A208					
RH-MW205B	11	7	5	3	2
RH-MW210B	22	15	11	7	5

[mm (in)]

Model	Lifting Capacity	Dimensions		Eyebolt ID	Rated Voltage	Rated Current	Mass
		Main Unit	Lifting part height				
LMU-10D	250kg/ 551 lb	φ 105 (4.13) × 60 (2.36)	108 (4.25)	M16 (0.62) (φ 35 (1.37))	180 VDC	0.3A	4kg/ 8.8 lb
LMU-15D	600kg/ 1323 lb	φ 156 (6.14) × 70 (2.75)	125 (4.92)	M20 (0.78) (φ 40 (1.57))		0.6A	11kg/ 24.2 lb
LMU-20D	1200kg/ 2646 lb	φ 206 (8.11) × 88 (3.46)	173 (6.81)	M30 (1.18) (φ 60 (2.36))		0.8A	23kg/ 50.7 lb
LMU-25D	1800kg/ 3968 lb	φ 256 (10.0) × 93 (3.66)	193 (7.59)	M36 (1.41) (φ 70 (2.75))		1.2A	40kg/ 88.1 lb
LMU-30D	2500kg/ 5512 lb	φ 306 (12.0) × 95 (3.74)	210 (8.26)	M42 (1.65) (φ 80 (3.15))		1.6A	60kg/ 132.2 lb

※ The lifting capacity is indicated by a value that is a half of the max. holding power.
 ※ For continuous operation, use the Lifma at 110 VDC or below. Note that when the thickness of steel plates to lift is 20 mm, the listed lifting capacity drops by approx. 20%.
 ※ The height of lifting part is up to the top end of the inside diameter of the eyebolt.
 ※ Cable 2 m is included. ※ For workpieces having poor attractive conditions such as scraps and waste materials, use LM-EC2.

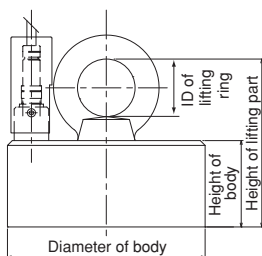
Model **LMU-UW** WATERPROOF ELECTROMAGNETIC LIFMA*

Waterproof specification

Rectifier required additionally



LMU-UW15



Full waterproof type joins small electromagnetic Lifma Series!

[Application]

Electromagnetic type lifting magnets used as a lifting section of cranes and hoists for transportation of steel materials in underwater work environment as well as outdoor work sites.

[Features]

- These Lifmas can be used underwater up to 3 atm (equivalent to 30 m max. water depth).
- Attracting and releasing workpieces can be controlled electrically by remote operation.
- A rectifier is required additionally.
- When an uninterruptible power supply is used, safety can be ensured in the event of unexpected power failure. (To study specifications, see the holding power graphs and lifting reference of Model LMU.)

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

[mm (in)]

Model	Lifting Capacity	Dimensions		Eyebolt ID	Rated Voltage	Rated Current	Mass	Applicable Rectifier
		Main Unit	Lifting Part Height					
LMU-UW15	600kg/ 1322 lb	φ 156 (6.14) × 75 (2.95)	130 (5.11)	M20 (0.78) (φ 40 (1.57))	180 VDC	0.6A	13kg/ 28.6 lb	KR-P203/P208
LMU-UW20	1200kg/ 2645 lb	φ 206 (8.11) × 90 (3.54)	175 (6.88)	M30 (1.18) (φ 60 (2.36))		0.9A	25kg/ 55.1 lb	KR-A203/A208
LMU-UW25	1800kg/ 3968 lb	φ 256 (10.0) × 96 (3.77)	196 (7.71)	M36 (1.41) (φ 70 (2.75))		1.2A	45kg/ 99.2 lb	RH-MW205B/MW210B

※ The lifting capacity is indicated by a value that is a half of the max. holding power. ※ For workpieces having poor attractive conditions such as scraps and waste materials, use LM-EC2.
 ※ For continuous operation, use the Lifma at 110 VDC or below. Note that when the thickness of steel plates to lift is 20 mm, the listed lifting capacity drops by approx. 20%.
 ※ The height of lifting part is up to the top end of the inside diameter of the eyebolt. ※ Cable 2 m is included.

Lifting reference for use of single unit «Mill scale soft steel plate»

Model	[mm (in)]				
	LMU-10D	LMU-15D	LMU-20D	LMU-25D	LMU-30D
Thickness	LMU-10SRD	LMU-15SRD	LMU-20SRD	LMU-25SRD	LMU-30SRD
5	600 (23.6) × 600 (23.6)	700 (27.5) × 700 (27.5)	800 (31.5) × 800 (31.5)	900 (35.4) × 900 (35.4)	1000 (39.4) × 1000 (39.4)
9		850 (33.4) × 850 (33.4)	1000 (39.4) × 1000 (39.4)	1200 (47.2) × 1200 (47.2)	1300 (51.1) × 1300 (51.1)
12	700 (27.5) × 700 (27.5)		1100 (43.3) × 1100 (43.3)		1600 (62.9) × 1600 (62.9)
16		1000 (39.4) × 1000 (39.4)		1500 (59.0) × 1500 (59.0)	
25	550 (21.6) × 550 (21.6)		1300 (51.1) × 1300 (51.1)		1700 (66.9) × 1700 (66.9)
50	400 (15.7) × 400 (15.7)	700 (27.5) × 700 (27.5)	1000 (39.4) × 1000 (39.4)	1250 (49.2) × 1250 (49.2)	1500 (59.0) × 1500 (59.0)
100	300 (11.8) × 300 (11.8)	500 (19.6) × 500 (19.6)	700 (27.5) × 700 (27.5)	800 (31.5) × 800 (31.5)	1000 (39.4) × 1000 (39.4)

※ For distorted steel plates and out-of-balance load, a larger safety factor needs to be used. In such a case, please consult with us.

Lifma selection standard for steel plate size

Steel Plate	[mm (in)]						
	Width	914 (35.9)	914 (35.9)	1219 (47.9)	1219 (47.9)	1524 (60.0)	1524 (60.0) - 1826 (71.8)
Length	1829 (72.0)	3658 (144)	2438 (95.9)	4877 (192)	3048 (120)	6096 (240)	
Size	3 × 6	3 × 12	4 × 8	4 × 16	5 × 10	5 - 6 × 20	
Lifma	4.5 (0.17) - 12 (0.47) mm thick	LMU-15D			LMU-20D		
	12 (0.47) - 32 (1.25) mm thick	LMU-20D			LMU-25D		
	Number of unit in parallel	2			2		
	Number of units in series	2			3		
Total number of units	4			6			8

※ When you plant to use two or more Lifmas by suspending them from one beam, please consult with us.

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