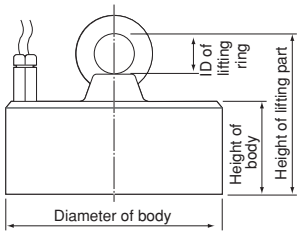
Model LMU SMALL ELECTROMAGNETIC LIFMA*

LMU-20D

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	14	11	7	5

[mm(in)]

Model	Lifting Capacity	Dimensions: Main Unit	Dimensions: Lifting part height	Eyebolt ID	Rated Voltage	Rated Current	Mass
LMU-10D	250kg/ 551 lb	φ105(4.13)×60(2.36)	108(4.25)	M16(0.62) (φ35(1.37))	180 VDC	0.3A	4kg/ 8.8 lb
LMU-15D	600kg/1323 lb	φ156(6.14)×70(2.75)	125(4.92)	M20(0.78) (φ40(1.57))		0.6A	11kg/ 24.2 lb
LMU-20D	1200kg/2646 lb	φ206(8.11)×88(3.46)	173(6.81)	M30(1.18) (φ60(2.36))		0.8A	23kg/ 50.7 lb
LMU-25D	1800kg/3968 lb	φ256(10.0)×93(3.66)	193(7.59)	M36(1.41) (φ70(2.75))		1.2A	40kg/ 88.1 lb
LMU-30D	2500kg/5512 lb	φ306(12.0)×95(3.74)	210(8.26)	M42(1.65) (φ80(3.15))		1.6A	60kg/132.2 lb

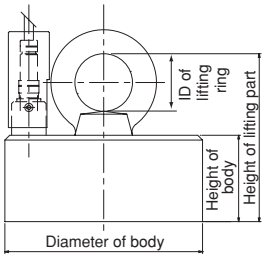
※The lifting capacity is indicated by a value that is a half of the max. holding power.
※For continuous operation, use the Lifma at 110 VDC or below. Note that when the thickness of steel plates to lift is 20 mm, the listed lifting capacity drops by approx. 20%.
※The height of lifting part is up to the 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: Main Unit	Dimensions: Lifting Part Height	Eyebolt ID	Rated Voltage	Rated Current	Mass	Applicable Rectifier
LMU-UW15	600kg/1322 lb	φ156(6.14)×75(2.95)	130(5.11)	M20(0.78) (φ40(1.57))	180 VDC	0.6A	13kg/28.6 lb	KR-P203/P208
LMU-UW20	1200kg/2645 lb	φ206(8.11)×90(3.54)	175(6.88)	M30(1.18) (φ60(2.36))		0.9A	25kg/55.1 lb	KR-A203/A208
LMU-UW25	1800kg/3968 lb	φ256(10.0)×96(3.77)	196(7.71)	M36(1.41) (φ70(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》

[mm(in)]

Thickness \ Model	LMU-10D / LMU-10SRD	LMU-15D / LMU-15SRD	LMU-20D / LMU-20SRD	LMU-25D / LMU-25SRD	LMU-30D / 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)		
16		1000(39.4)×1000(39.3	1300(51.1)×1300(51.1)	1500(59.0)×1500(59.0)	1600(62.9)×1600(62.9)
25	550(21.6)×550(21.6)				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

[mm(in)]

Steel Plate	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					
	Number of units in series	2			3	4	
	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.