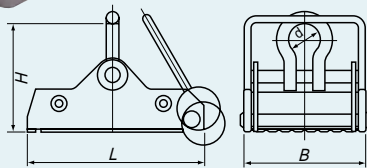


Model PL



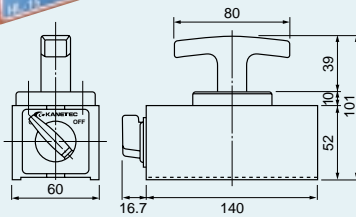
PL - 40B



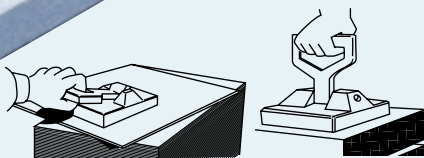
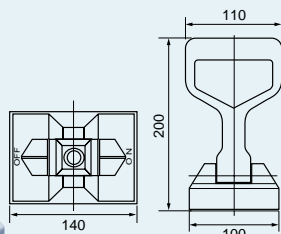
Model HL



HL - 15



HL - 20A



Lifting Magnet Model PL

[Application]

These holders are suitable for transporting such raw materials as black iron plates and flat iron products and lifting and transporting semi-finished products having flat surfaces such as machine parts, press dies and plastic forming molds.

[Features]

The use of a permanent magnet eliminates the need of electric power, thus eliminating troubles due to power interruption and failure of the power supply line. The strong magnetic force can be used semi-permanently. The employment of cam system facilitates attaching and detaching of works.

[Precautions for use]

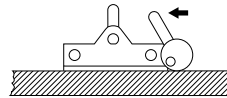
The operation of the cam for attaching and detaching will apply physical friction to the work. If they are used on finished surfaces such as a polished surface, such surface may be damaged.

Model	Holding Power	Dimension			d { Shackle lifting inside diameter }	Mass
		B	L	H		
PL-20B	200kg/444 lb	122(4.80)	255(10.0)	150(5.90)	BC14(0.55) (40 1.57)	8.5kg/18 lb
PL-40B	400kg/888 lb	212(8.34)		181(7.12)	BB20(0.78) (58 2.28)	14.0kg/31 lb

The lifting capacity is indicated by a quarter of the maximum holding power. Dimension " H " up to the top end of the inner diameter of the shackle lifting ring.

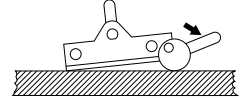
Attraction

Place Lifma on the transporting material and pull the lever up in vertical position.



Removal

Put the lever in horizontal position to remove Lifma from the transporting material.



Hand Lifma Model HL

[Application]

Most suitable for pulling out steel material or steel sheet and carrying material, metal mold, press die and so on.

[Features]

A new cam mechanism is employed so as not to cause scratches on the surface of work. (HL-20A)

Work is held and released quite smoothly.

The lifting capacity is 20 kg on steel plates. (HL-15)

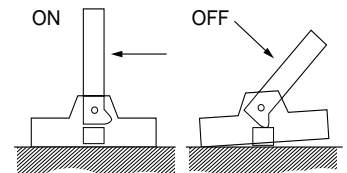
The magnetic force can be turned on and off by lever operation. (HL-15)

The T-handle is robust and fixed for stable work transportation. (HL-15)

How to Use (HL-20A)

[Application]

Place Hand Lifma on the carrying object with handle right up and pull it out after ensuring that it attracts perfectly.



[Removal]

Hand Lifma removes from the carrying object with handle right down to off direction.

Model	Holding Power		Dimension			Handle Length	Mass
	Lateral Pulling	Lifting up	Width	Length	Height		
HL-15	See next page		60(2.36)	120(4.72)	52(2.04)	49(1.92)	3.0kg/6.6 lb
HL-20A	500N(50kgf)	2kN(200kgf)	100(3.93)	140(5.51)	32(1.25)	200(7.87)	2.5kg/5.5 lb

Max. attraction shows the figures for 15mm thick soft steel. Attraction reduces if the sheet is thinner. Do not employ it as a hoist.

**Permanent
Magnet LIFMA**

LPR-A series



The body is protected against impact with guards (used as handles also) on the front and the back.

They also enable easy movement and positioning of the LIFMA.

LPR-V600A



LPR-V300A



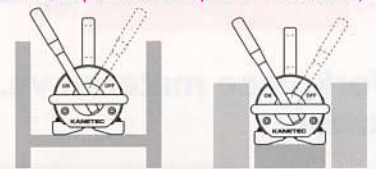
LPR-V150A



- A smaller ON-OFF operating angle for easy operation. (Patent pending)



Full performance is exhibited in lifting such shape steel as H-shape and workpieces in small space.

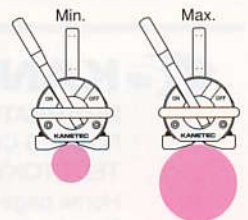


- The employment of a unique magnetic circuit enables handle lock by simple operation.

- A V-face best suited for lifting pipes and round steel responds to a wide range of diameters of workpieces.

The lifting capacity has been increased more than 50% from the conventional products.

The employment of a round yoke has achieved both compactness & lightweight and holding power with margin & gap characteristics.

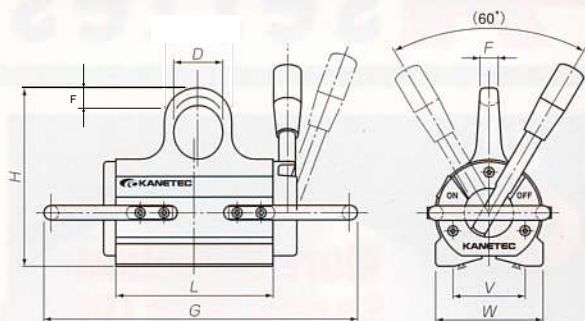


KANETEC

<http://www.kanetec.co.jp>

Specifications

[mm (in.)]



Model	Max. lifting capacity		Dimensions							Mass
	Steel plate workpiece	Round steel workpiece	W	V	L	H	G	D	F	
LPR-V150A	150kg 333 lb	100kg 222 lb	90 (3.54)	60 (2.36)	130 (5.11)	150 (5.90)	260 (10.2)	40 (1.57)	15 (0.59)	7.5kg 17 lb
LPR-V300A	300kg 666 lb	200kg 444 lb			230 (9.04)	165 (6.49)	360 (14.2)	50 (1.97)		
LPR-V600A	600kg 1332 lb	400kg 888 lb	136 (5.35)	90 (3.54)	270 (10.6)	225 (8.85)	440 (17.3)	60 (2.36)	25 (0.98)	35kg 78 lb
LPR-V1200A	1200kg 2664 lb	800kg 1776 lb	175 (6.88)	120 (4.72)	430 (16.9)	280 (11.2)	620 (24.4)	70 (2.75)	30 (1.20)	85kg 189 lb

※The lifting capacity is indicated by one third (safety factor 3) of the maximum holding power.

Lifting Standard

Steel plate lifting standard (Flat steel plate ~)

[mm (in.)]

Thickness	Model			
	V150A	V300A	V600A	V1200A
t6	□900 (35.4) 450 (17.7) X 1500 (59.0)	□1200 (47.2) 500 (19.6) X 2500 (98.3)	□1300 (51.1) ※ 600 (23.6) X 2500 (98.3)	— ※
t12	□850 (33.4) 400 (15.7) X 1500 (59.0)	□1250 (49.1) 550 (21.6) X 2500 (98.3)	□1450 (56.9) 750 (29.4) X 2500 (98.3)	□1750 (68.7) ※
t25	□650 (25.5) 260 (10.2) X 1500 (59.0)	□950 (37.3) 300 (11.8) X 2500 (98.3)	□1250 (49.1) 550 (21.6) X 2500 (98.3)	□1700 (66.9) 900 (35.4) X 3000 (118.1)
t50	□500 (19.6) 150 (5.90) X 1500 (59.0)	□700 (27.5) 250 (9.82) X 1800 (70.8)	□1000 (39.3) 350 (13.7) X 2500 (98.3)	□1400 (55.1) 600 (23.6) X 3000 (118.1)
t100	□350 (13.7) 150 (5.90) X 750 (29.4)	□550 (21.6) 250 (9.82) X 1100 (43.3)	□750 (29.4) 300 (11.8) X 1650 (64.8)	□1050 (41.2) 450 (17.7) X 2400 (94.3)

※...If the plate is thin, the handle operation becomes difficult.

Round steel lifting standard (Round steel ~)

[mm (in.)]

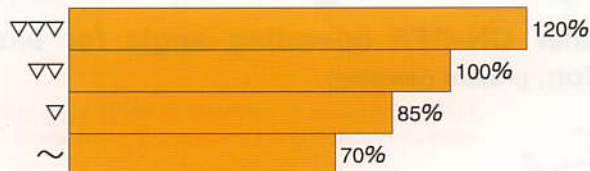
Round steel	Model			
	V150A	V300A	V600A	V1200A
Min.	φ75 (2.9) X 1400 (55.1) L	φ75 (2.9) X 2800 (110.1) L	φ100 (3.9) X 3000 (118.1) L	φ150 (5.9) X 3000 (118.1) L
Max.	φ200 (7.9) X 300 (11.8) L	φ300 (11.8) X 250 (9.8) L	φ400 (15.7) X 300 (11.8) L	φ450 (17.7) X 450 (17.7) L
Pipe permissible diameter ※	φ75 (2.9) ~ 200 (7.9)	φ75 (2.9) ~ 300 (11.8)	φ100 (3.9) ~ 500 (19.6)	φ150 (5.9) ~ 700 (27.5)

※...Note the capacity will vary according to pipe thickness. It is dangerous to lift pipes that are oval or curved even if they are short.

The lifting capacity will vary according to diameters of round steel. Do not lift workpieces longer than 3 m with a single unit. It is a dangerous practice. At the maximum diameter, workpieces that are shorter than the attractive face cannot be lifted.

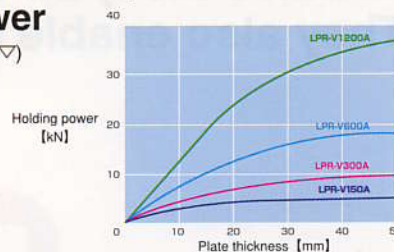
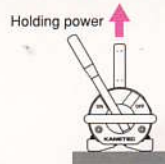
※This Standard table has been created as a guide for actual work and does not guarantee absolute safety. The capacity may drop due to various factors not shown in the table. Consider every possible factor when using LIFMA.

Workpiece surface vs. holding power

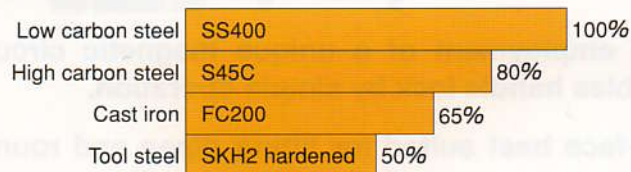


Relation between the steel plate thickness and the holding power

(Material SS400, surface roughness ▽▽)

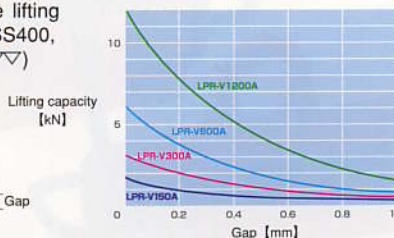
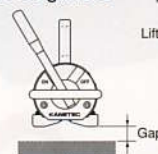


Workpiece material vs. holding power



Relation between the gap and the lifting capacity

The relation between the gap and the lifting capacity is as shown below. (Material SS400, thickness 50 mm, surface roughness ▽▽)



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KANETEC U.S.A. CORP.

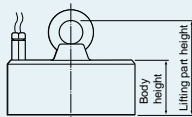
140W, Devon Avenue, Bensenville, IL60106, U.S.A.
TEL : 630-860-1545, 860-2230 FAX : 630-860-9443
Home page address : <http://www.kanetec.com/>
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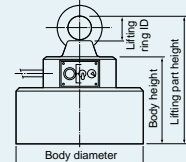
Model LMU



LMU dimensions



LMU-SR dimensions



Model KR



KR - P203

Model LBB



Various types of uninterruptible power units

Lifting Reference for Single Unit (for Black Soft Steel, Plate)

[mm(in)]

Model Plate thickness	LMU-10D	LMU-15D	LMU-20D	LMU-25D	LMU-30D
5	600(23.6) x 600(23.6)	700(27.5) x 700(27.5)	800(31.4) x 800(31.4)	900(35.4) x 900(35.4)	1000(39.3) x 1000(39.3)
9		850(33.4) x 850(33.4)	1000(39.3) x 1000(39.3)	1200(47.2) x 1200(47.2)	1300(51.1) x 1300(51.1)
12	700(27.5) x 700(27.5)		1100(43.3) x 1100(43.3)		
16		1000(39.3) x 1000(39.3)			
25	550(21.6) x 550(21.6)		1300(51.1) x 1300(51.1)	1500(59.0) x 1500(59.0)	1600(62.9) x 1600(62.9)
50	400(15.7) x 400(15.7)	700(27.5) x 700(27.5)	1000(39.3) x 1000(39.3)	1250(49.2) x 1250(49.2)	1500(59.0) x 1500(59.0)
100	300(11.8) x 300(11.8)	500(19.6) x 500(19.6)	700(27.5) x 700(27.5)	800(31.4) x 800(31.4)	1000(39.3) x 1000(39.3)

Please contact us for using Lifma to lift plate stacks with uneven load ; This case should consider a larger safety coefficient.

Maximum Usable Number of Small Electromagnetic Lifmas LMU to Rectifier KR

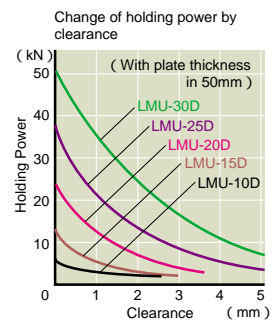
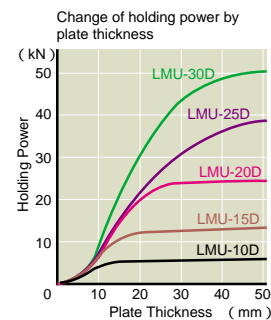
Rectifier	Small electromagnetic lifma					
	Capacity 58W	LMU-10D	LMU-15D	LMU-20D	LMU-25D	LMU-30D
KR-P203 KR-A203 KR-R203B	Capacity 540W	8	4	3	2	1
KR-P208 KR-A208 KR-R208B	1440W	21	10	8	5	4

Magnet Selection Standard to Steel Plate Size

[mm(in)]

Steel Plate	Plate Width	914(35.9)	914(35.9)	1219(47.9)	1219(47.9)	1524(60.0)	1524(60.0) - 1826(71.8)
Plate Length		1829(72.0)	3658(144)	2438(95.9)	4877(192)	3048(120)	6096(240)
Nominal size	3(0.11) x	3(0.11) x	4(0.15) x	4(0.15) x	5(0.19) x	5(0.19) - 6(0.23)	
	6(0.23)	12(0.47)	8(0.31)	16(0.62)	10(0.39)	20(0.78)	
Magnet	Thickness 4.5(0.17) - 12(0.47)	LMU-15D			LMU-20D		
	Thickness 12(0.47) - 32(1.25)	LMU-20D			LMU-25D		
Number of unit in parallel	2						
Number of units in series	2		3		4		
Total units	4		6		8		

Please contact us when using two or more magnets by suspending them from one ceiling.



Lifting Magnet Model LMU

[Application]

Most suitable for materials handling of process or finished steels, materials, products.

[Features]

We've succeeded in miniaturizing this powerful electromagnet. It has

wide applications in conveying small materials up to large steel plates when magnets are placed in connection with a flame.

When attaching our non-interruption device, you can use LMU safely even during sudden interruption of electric service.

A rectifier unit is required to power this electromagnet, we suggest Model Series KR.

[mm(in)]

Model	Holding Power	Dimension		Eyebolt	Voltage	Power Consumption	Mass
		Main Unit	Lifting Part Height				
LMU-10D	250kg/ 555 lb	105(4.13) × 60(2.36)	108(4.25)	M16(0.62 (35(1.37))	DC180V	58W	4kg/ 8.8 lb
LMU-15D	600kg/1333 lb	156(6.14) × 70(2.75)	125(4.92)	M20(0.78 (40(1.57))		110W	11kg/ 24.4 lb
LMU-20D	1200kg/2666 lb	206(8.11) × 88(3.46)	173(6.81)	M30(1.18 (60(2.36))		145W	23kg/ 51.1 lb
LMU-25D	1800kg/4000 lb	256(10.0) × 93(3.66)	193(7.59)	M36(1.41 (70(2.75))		210W	40kg/ 88.8 lb
LMU-30D	2500kg/5555 lb	306(12.0) × 95(3.74)	210(8.26)	M42(1.65 (80(3.14))		290W	60kg/133.3 lb

Working rate at 50%ED(EFFECTIVE DUTS by cycle of repeating to electrify for 5minutes and to pause for 5 minutes).
 Lifting capacity is indicated as 1/2 of maximum attraction with SS400 black steel face.
 For continuous operation, use Lifma under 110VDC. But the capacity reduces by approx. 20% at 110VDC for 20mm thick steel plate.
 H Dimension indicates the size up to the upper end of inside diameter for eyebolt lifting. Cord 2m is provided.

Lifting Magnet Model LMU-SR

[Application]

Suitable for loading and unloading works to and from the work table of machine tools, moving small steel materials and steel plates and for use as a single unit with a power supply built in.

[Features]

A separate rectifier is not required.This unit has its own,built in.

〈Rectifier-built in type〉

Easy to release the lifting material by the inverse exciting switch provided.

Adopting the printed wiring board,it is compact without trouble.

Attraction is same capacity as LMU(see the attraction graph and lighting reference for model LMU) .

[mm(in)]

Model	Holding Power	Dimension		Eyenut	Voltage	Power Consumption	Mass
		Main Unit	Lifting Part Height				
LMU-10SRD	250kg/ 555 lb	105(4.13) × 130(5.11)	189.5(7.46)	M16(0.62 (35(1.37))	Single-phase, AC200V	60W	5kg/ 11.1 lb
LMU-15SRD	600kg/1333 lb	156(6.14) × 142(5.59)	212 (8.34)	M20(0.78 (40(1.57))		110W	13kg/ 28.8 lb
LMU-20SRD	1200kg/2666 lb	206(8.11) × 160(6.29)	270 (10.6)	M30(1.18 (60(2.36))		145W	25kg/ 55.5 lb
LMU-25SRD	1800kg/4000 lb	256(10.0) × 165(6.49)	295 (11.6)	M36(1.41 (70(2.75))		210W	43kg/ 95.5 lb
LMU-30SRD	2500kg/5555 lb	306(12.0) × 170(6.69)	319 (12.5)	M42(1.65 (80(3.14))		290W	63kg/140.0 lb

Working rate at 50%ED(EFFECTIVE DUTS by cycle of repeating to electrify for 5minutes and to pause for 5 minutes).
 Lifting capacity is indicated as 1/2 of maximum attraction with SS400 black steel face.
 For continuous operation, use Lifma under input voltage, 100VAC, but lifting capacity reduces by approx. 30% for 20mm thick steel plate. In this case, replace the lamp bulb by the one for 100V.
 H Dimension indicates the size up to the upper end of inside diameter for eyebolt lifting. Cord 5m is provided.

Rectifier Model KR

[Application]

A rectifier is required to operate Lifma, LMU. 3 models, KR-P, KR-A and KR-R, are available to meet this purpose.

■Model KR-R 《Rectifier with reverse exciting circuit》

When lifting works having a flat attractive face or works made of such materials as FC where magnetism tends to remain, they may not be released only by turning off the power.

In such a case, a current is let flow in the reverse direction of attraction to cancel the residual magnetism. The equipment listed here are capable of supplying a reverse current momentarily.

[mm(in)]

Model	Input	Output			Dimension			Remote Switch	Ammeter	Auto Reverse	Mass			
		Voltage	Current	Capacity	Width	Depth	Height							
KR-P203	Single-phase, DC180V AC200V	3A	540W	200	90	250	x	x	x	3kg/ 6.6 lb				
KR-P208		8A	1440W											
KR-A203		3A	540W								(7.87) (3.54) (9.84)			
KR-A208		8A	1440W	300	170	400					x	x	12kg/ 26 lb	
KR-R203B		3A	540W											
KR-R208B		8A	1440W											(11.8) (6.69) (15.7)

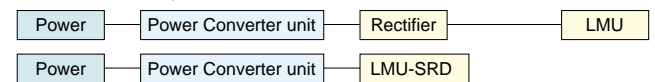
Power Converter Units Model LBB

In some cases the Electromagnetic Lifma requires an emergency power converter unit for safety. Select the proper converter unit according to the input voltage and required output capacity.

Applicable Rectifier

LBB-NI	KR-P	KR-A	KR-R	LMU-SRD
Not compatible with the standard KR-R unless slightly modified.				

Connection Diagram

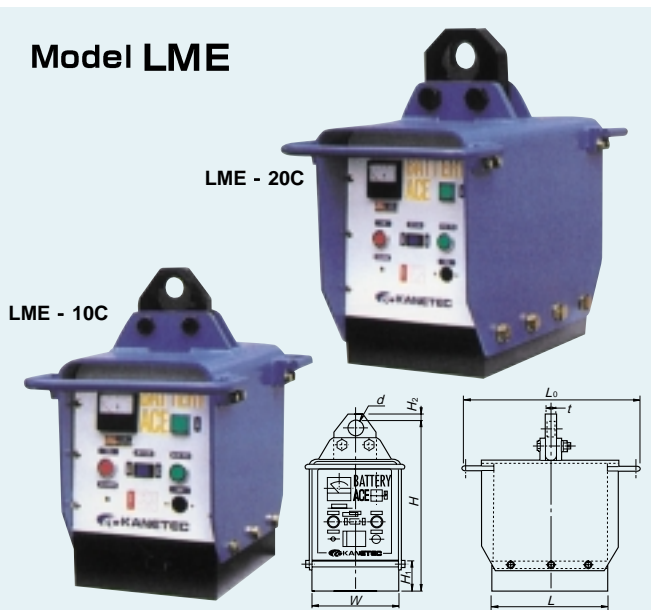


[mm(in)]

Model	Type	Output Capacity	Input		Form	Dimension			Mass					
			Voltage	Herz		Width	Depth	Height						
LBB-NI- 70-10-5	Wall-mount type	70W	Single-phase	50Hz	Rectangular wave	350	153	320	20kg/					
LBB-NI- 70-10-6			AC100V	60Hz					(13.7) (0.60) (12.5)	44 lb				
LBB-NI- 70-20-5			Single-phase	50Hz					400	164	410	40kg/		
LBB-NI- 70-20-6			AC200V	60Hz										
LBB-NI- 140-10-5			Single-phase	50Hz									(15.7) (6.45) (16.1)	88 lb
LBB-NI-140-10-6			AC100V	60Hz										
LBB-NI-140-20-5		Single-phase	50Hz											
LBB-NI-140-20-6		AC200V	60Hz											
LBB-NI-210-10-5		Single-phase	50Hz											
LBB-NI-210-10-6		AC100V	60Hz											
LBB-NI-210-20-5		Single-phase	50Hz	530		260	660	50kg/						
LBB-NI-210-20-6		AC200V	60Hz											
LBB-NI-350-20-5	Self-standing type	350W	Single-phase	50Hz	(20.8) (10.2) (25.9)	111 lb								
LBB-NI-350-20-6			AC200V	60Hz										

Capacity: Guaranteed power interruption time is 10 minutes for all models. All models are of closed type.
 Note: These models are powered off for about 3/100 second. If no power interruption is allowed during switchover, please contact us.

Model LME



Battery Ace Model LME

(Standard type)

[Application]

The Battery Aces can offer about the same lifting and transporting capacity as electromagnetic types using a built-in battery where no power supply is available on indoor work sites. When they are mounted as a lifting means on cranes and hoists, they work well in organizing and arranging steel plates and steel materials and loading and unloading works to and from large machine tools.

LME-10C to -30C are suitable for transporting small steel plates, waste materials and light steel frames.

LME-60W-A is suitable for transporting wide and relatively thick steel plates weighing up to 6 tons.

LME-60L-A is suitable for transporting steel plates that tend to warp, in addition to long steel plates and form steels.

[Features]

Since no cord is used, they can be used in a wide variety of work sites. The battery used is a commercially available automotive battery for easy replacement.

There is no fear of accidents due to fallen works caused by power interruption and power supply cable problem.

The selection by the switch enables automation of repeating attaching and detaching of lifted works, thus allowing lifting work to be done without remote inputs. (Repetition of attach and detach for each touch down on floor)

The pushbutton switch on the operation panel facilitates manual attaching and detaching of lifted works.

The rigid body and guard acting as a grip also ensure high impact resistance and durability in severe work conditions.

For releasing works, the demagnetizing function is automatically activated regardless of manual or auto mode.

The remaining capacity of the battery can be checked at a glance on a 7-rank level meter. When the battery nears its life, the buzzer sounds.

The ammeter tells the state of power application to the electromagnet.

By using a spare battery, while one battery is being used, the other battery can be charged to improve work efficiency.

[mm (in)]

Model	Work	Angle Steel		or H-shaped Steel		Chennel Steel	
		Type	Length	Type	Length	Type	Length
LME-20C	3000	75(2.95) x 75 (2.95) x 19(0.35)	(118.1)	100(3.93) x 75(2.95)	4000	100(3.93) x 50(1.96)	3000
		100(3.93) x 100 (3.93) x 110(0.39)		150(5.90) x 75(2.95)		150(5.90) x 75(2.95)	
		150(5.90) x 150 (5.90) x 115(0.59)		200(7.87) x 150(5.90)		200(7.87) x 80(3.14)	
		200(7.87) x 200 (7.87) x 120(0.78)		300(11.8) x 150(5.90)		300(11.8) x 90(3.54)	
LME-30C	5000	75(2.95) x 75 (2.95) x 19(0.35)	(196.8)	100(3.93) x 75(2.95)	6000	100(3.93) x 50(1.96)	5000
		100(3.93) x 100 (3.93) x 110(0.39)		150(5.90) x 75(2.95)		150(5.90) x 75(2.95)	
		150(5.90) x 150 (5.90) x 115(0.59)		200(7.87) x 150(5.90)		200(7.87) x 80(3.14)	
		200(7.87) x 200 (7.87) x 120(0.78)		300(11.8) x 150(5.90)		300(11.8) x 90(3.54)	

[mm (in)]

Model	Holding Power	Dimension										Battery Cap.	Working Hours (50%ED)	Mass	Battery Charge	Charging Time
		W	L	L ₀	H (Stand-by ~ Up)	H ₁	H ₂	d	t							
LME-10C	1000kg/ 2222b	220(8.66)	300(11.8)	450(17.7)	445(17.5) ~ 460(18.1)	80(3.14)	15(0.59)	40(1.57)	25(0.98)	12V 12Ah	7 ~ 9h	62kg/137 lb	In AC100V	5 ~ 7h		
LME-20C	2000kg/ 4444b	260(10.2)	380(14.9)	590(23.2)	520(20.4) ~ 535(21.0)	80(3.14)	25(0.98)	60(2.36)	38(1.49)	12V 35Ah	7 ~ 9h	100kg/222 lb	In AC100V	10 ~ 15h		
LME-30C	3000kg/ 6666b	260(10.2)	490(19.2)	590(23.2)	550(21.6) ~ 565(22.2)	110(4.33)	25(0.98)	60(2.36)	38(1.49)	12V 35Ah	6 ~ 8h	140kg/311 lb	Out DC12V			
LME-60L-A	6000kg/13333b	270(10.6)	900(35.4)	-	755(29.7)	-	-	118(4.64)	-	12V 35h x 2	6 ~ 8h	300kg/666 lb	In AC100V	6 ~ 10h		
LME-60W-A	540(21.2)	450(17.7)	-	-	-	-	-	-	-	12V 35h x 2	6 ~ 8h	300kg/666 lb	Out DC24V			

Lifting capacity is indicated as 1/2 of maximum attraction. 50% ED.....effective Accessories.....A set of spare batteries.A standard battery charger Hydrometer

Max. Lifiable Dimension of Steel Plate

[mm (in)]

Work Thickness	Model	LME-10C		LME-20C		LME-30C			LME-60L-A, 60W-A			
		W	L	W	L	W	L	L ₀	W	L	L ₀	
6	550 (21.6)	500(19.6) x 600(23.6)	1000(39.3) x 300(11.8)	1300 (51.8)	1000(39.3) x 1600(62.9)	2000(78.7) x 800(31.4)	1400 (55.1)	1000(39.3) x 1800(70.8)	2000(78.7) x 800(31.4)	1700 (66.9)	1000(39.3) x 2500(98.4)	2000(78.7) x 1300(51.1)
		9	650 (25.5)				500(19.6) x 800(31.4)	1000(39.3) x 400(15.7)	1500 (59.0)		1000(39.3) x 2200(86.6)	2000(78.7) x 1100(43.3)
12	800 (31.4)	500(19.6) x 1100(43.3)	1000(39.3) x 600(23.6)	1700 (66.9)	1000(39.3) x 2800(110.2)	2000(78.7) x 1400(55.1)	175 (6.88)	1000(39.3) x 2700(106.2)	2000(78.7) x 1300(51.1)	2200 (86.6)	1000(39.3) x 4500(177.1)	2000(78.7) x 2500(98.4)
		16	800 (31.4)				500(19.6) x 1400(55.1)	1000(39.3) x 850(33.4)	1700 (66.9)		1000(39.3) x 2800(110.2)	2000(78.7) x 1400(55.1)
20	900 (35.4)	500(19.6) x 2000(78.7)	1000(39.3) x 1200(47.2)	1700 (66.9)	1000(39.3) x 2700(106.2)	2000(78.7) x 1500(59.0)	1850 (72.8)	1000(39.3) x 3300(129.9)	2000(78.7) x 1700(66.9)	2400 (94.4)	1000(39.3) x 5500(216.5)	2000(78.7) x 3000(118.1)
		25	1100 (43.3)				500(19.6) x 1000(39.3)	1000(39.3) x 1000(39.3)	1600 (62.9)		1000(39.3) x 2500(98.4)	2000(78.7) x 1400(55.1)
30	1000 (39.3)	500(19.6) x 1800(70.8)	1000(39.3) x 1000(39.3)	1700 (66.9)	1000(39.3) x 2700(106.2)	2000(78.7) x 1500(59.0)	1850 (72.8)	1000(39.3) x 3300(129.9)	2000(78.7) x 1700(66.9)	2400 (94.4)	1000(39.3) x 5500(216.5)	2000(78.7) x 3000(118.1)
		40	950 (37.4)				500(19.6) x 1600(62.9)	1000(39.3) x 900(35.4)	1400 (55.1)		1000(39.3) x 1900(74.8)	2000(78.7) x 950(37.4)
50	550 (21.6)	500(19.6) x 600(23.6)	1000(39.3) x 300(11.8)	1700 (66.9)	1000(39.3) x 2700(106.2)	2000(78.7) x 1500(59.0)	1200 (47.2)	1000(39.3) x 1500(59.0)	2000(78.7) x 700(27.5)	1700 (66.9)	1000(39.3) x 2700(106.2)	2000(78.7) x 1500(59.0)
		100	550 (21.6)				500(19.6) x 600(23.6)	1000(39.3) x 300(11.8)	1000 (39.3)		1000(39.3) x 1000(39.3)	2000(78.7) x 500(19.6)

ROBUST GUARD PLATES ENSURE SAFETY
Made of strong, steel plates. These guard plates protect the main body from severe shock from outside.

BATTERY EASILY REPLACED
Continuous operation is assured by using the spare battery.



NEED FOR RECHARGING ENSURED BY LIGHT AND SOUND
In addition to the battery meter and indicating lamp, the built-in alarm buzzer audibly indicates when the battery should be recharged, thereby ensuring added safety during operation.

POWER TEMPORARY STOP
Useful for stacked steel plates to lift one sheet by one by residual holding power. (OFF when pressed, ON when released)



CONFIRMATION OF TIME FOR RECHARGING
The meter indicates the battery voltage at hand and helps you judge the discharge status in advance.

EXCITATION INDICATING LAMP
This lamp lights on when normal excitation or reverse excitation is being conducted.

LIGHT TOUCH OPERATING SWITCH
Normal and reverse excitation are easily changed with this switch.

REMOTE CONTROL AVAILABLE
Operation switch selectable between auto and manual.

COMPACT BUT POWERFUL
Efficient circuit design provides outstanding powerful magnetic force despite its compact size.

Model LM-EC



LM - 130EC2

Lifting Magnet Model LM-EC

[Application]

Most suitable for transporting iron wastes and iron lumps such as scraps, slabs and ingots.

[Features]

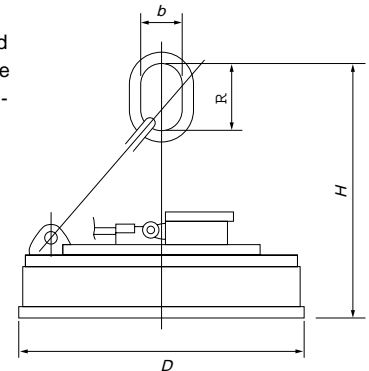
Designed with electromagnetic coil in H-grade insulation for maximum magnetic effect and minimum power consumption.
Robust and tough, designed to withstand the hard operation.

[Standard Accessories]

- DC power unit
- Operating pushbutton switch
- Instrument box

* Output voltage regulator and uninterruptible power unit are also manufactured, and available as an option.

Cable connector
Cable reel



[mm(in)]

Model	Max. Holding Mass				Dimension				Voltage	Current	Power Consumption	Mass	Applicable Power Unit	Duty Cycle
	Ingot	Pig Iron	Steel Cut Wastes	Slice Tip	D	H	b	ℓ						
LM- 40EC2	1000kg/ 2222 lb	60kg/ 133 lb	20kg/ 44 lb	10kg/ 22 lb	400(15.7)	-	-	-	DC 220V	2.5A	0.55kW	130kg/ 288 lb	LBR-04E	50%ED (by cycle for repowering to electrify for 5 minutes and to pause for 5 minutes.)
LM- 50EC2	1800kg/ 4000 lb	120kg/ 266 lb	90kg/ 200 lb	25kg/ 55 lb	500(19.6)	610(24.0)	70(2.75)	140(5.51)		4.3A	1.0kW	290kg/ 644 lb	LBR-05E	
LM- 60EC2	3000kg/ 6666 lb	250kg/ 555 lb	120kg/ 266 lb	40kg/ 88 lb	600(23.6)	740(29.1)	90(3.54)	160(6.29)		5.8A	1.28kW	400kg/ 888 lb	LBR-06E	
LM- 70EC2	5000kg/11111 lb	350kg/ 777 lb	200kg/ 444 lb	100kg/ 222 lb	700(27.5)	880(34.6)	110(4.33)	180(7.08)		18A	4.0kW		LBR-07E	
LM- 90EC2	9000kg/20000 lb	500kg/1111 lb	300kg/ 666 lb	200kg/ 444 lb	900(35.4)	1050(41.3)	150(5.90)	220(8.66)		28A	6.2kW	600kg/1333 lb	LBR-09E	
LM-110EC2	14000kg/31111 lb	900kg/2000 lb	500kg/1111 lb	300kg/ 666 lb	1100(43.3)	1150(45.2)	175(6.88)	250(9.84)		42A	9.2kW	1400kg/3111 lb	LBR-11E	
LM-130EC2	19000kg/42222 lb	1400kg/3111 lb	800kg/1777 lb	500kg/1111 lb	1300(51.1)	1250(49.2)	190(7.48)	290(11.4)		63A	13.9kW	1900kg/4222 lb	LBR-13E	
LM-150EC2	24000kg/53333 lb	1900kg/4222 lb	1100kg/2444 lb	800kg/1777 lb	1500(59.0)	1330(52.3)	210(8.26)	350(13.7)		74A	16.3kW	2900kg/6444 lb	LBR-15E	
LM-180EC2	31000kg/68888 lb	2700kg/6000 lb	1600kg/3555 lb	1100kg/2444 lb	1800(70.8)	1450(57.0)	230(9.05)	370(14.5)		110A	24.0kW	4200kg/9333 lb	LBR-18E	