[mm (in)

Model HL HAND LIFMA*



[Application]

Suitable for pulling out steel materials or steel plates and carrying metal frames, raw materials, press molds, semi-finished products, etc.

[Features]

- ●A new cam mechanism is employed so as not to apply friction due to holding and releasing directly to the surface of workpieces to transport. (HL-20A)
- Workpieces are held and released quite smoothly.
- ■The magnetic force can be turned on and off by lever operation. (HL-15)
- ●The T-handle is robust and held by hand comfortably for stable workpiece transportation. (HL-15)



	Model	Max. Holding Power		Lifting	Dimensions			Handle	Mana
		Lateral	Lift	Capacity	Width	Length	Height	Length	Mass
	HL-15	350N (35kgf)	1.5kN (150kgf)	20kg/44.1 lb	60 (2.36)	120(4.72)	52(2.04)	49(1.92)	3.0kg/6.6 lb
	HL-20A	500N (50kgf)	2 kN (200kgf)	30kg/66.1 lb	100 (3.93)	140(5.51)	32(1.26)	200 (7.87)	2.5kg/5.5 lb

^{*}The holding power is based on a test piece of 15 mm thick soft steel. The holding power and lifting capacity drop depending on the thicknesses, materials of workpieces and other factors. *Do not use this Lifma for a hoist.

PERMANENT MAGNETIC LIFMA*



Put the lever in the horizontal position to release the Lifma



These Lifmas are suitable for transporting such raw materials as mill scale iron plates and flat iron products and lifting and transporting semi-finished products having flat surfaces such as machine parts, press dies and plastic molds. [Features]

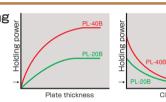
- These are of permanent magnetic type requiring no power source. Thus, there is no risk of falling workpieces due to power failure or failure of wiring systems.
- The employment of a cam system facilitates holding and releasing of workpieces.

Precautions for use

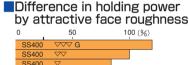
When you plan to use the Lifma for special steel materials such as hardened materials, please consult with us prior to purchasing the Lifma.

The operation of the cam to hold and release workpieces exerts physical friction to the workpieces. Therefore, the surfaces finished by polishing, for example, may be scratched. Do not use the Lifma for workpieces whose width or length is short and the cam operation does not work on them. Operate the ON/OFF select cam by a foot.

Change in holding power by plate thickness and clearance



Difference in holding power by materials 100 (%) 50



SKH2 熱処理

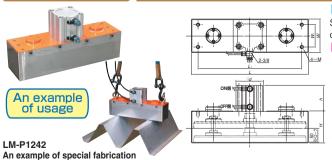
Model	Lifting Capacity		Dimensions	3	Shackle "d"	Mass			
Model	LITTING Capacity	В	L	Н	(Lifting ring ID)				
PL-20B	200kg/440 lb 122 (4.8		255(10.0)	150 (5.90)	BC14 (0.55) (φ40 (1.57))	8.5kg/18lb			
PL-40B	400kg/881 lb	212(8.34)	255 (10.0)	181 (7.12)	BB20 (0.78) (φ58 (2.28))	14.0kg/31lb			
*The lifting capacity is indicated by a quarter of the may, holding nower									

*The dimension "H" is up to the top end of the inside diameter of the shackle.

Steel plate lifting standard (Mill scale soft steel plate) [mm (in)]

	Thickness Model		PL-20B	PL-40B		
,	5-7	□450(17.7)	350(13.7)×550(21.6)	□950 (37.4)	650(25.5) ×1300(51.1)	
	8-12	□500(19.6)	350(13.7)×700(27.5)	□1100(43.3)	750(29.5) ×1500(59.1)	
	13-16	□550(21.6)	400 (15.7) ×700 (27.5)	□1000 (39.4)	700 (27.5) ×1400 (55.1)	
	17-25	□550(21.6)	400(15.7) × 700(27.5)	□950 (37.4)	650(25.5) ×1300(51.1)	
	26-40	□450(17.7)	350(13.7)×550(21.6)	□750 (29.5)	550(21.6) ×1000(39.4)	
	41-65	□350(13.7)	250(9.84) ×500(19.6)	□600 (23.6)	450 (17.7) × 700 (27.5)	
	66-100	250 (9.84)	200(7.87) ×300(11.8)	□500(19.6)	350 (13.7) × 700 (27.5)	

UP-DOWN TYPE PERMANENT MAGNETIC LIFMA*



Suitable for lifting and moving bent plates, floor plates, pressed workpieces having concave or convex sections, iron doors of buildings, deck plates, guard rails, cans, etc.

[Features]

- The attraction is turned on and off by moving up and down the built-in magnet with an air cylinder, which facilitates remote operation and automated operation.
- Compared with the electromagnetic type, this model has a larger holding power on thin sheets (less than 5 mm thick) and its capacity drops less when clearance is present. Accordingly, this model is most suitable for lifting pressed workpieces having concave or convex sections.
- Energy saving type as no electric power source is required.
- ●The ON state is maintained if the air source is shut down and therefore there is no risk of falling workpieces, thus enhancing safety.

[mm (in)]

	Model	Dimensions								Air Pressure	Mana
		W	L	Н	h	W ₁	L ₁	d	М	All Flessure	Mass
Ī	LM-P1242	120 (4.72)	420 (16.5)	112(4.40)	93.5 (3.68)	80 (3.14)	370 (14.5)	98 (3.85)	M12,(0.47) depth 14(0.55)	0.49 MPa or over	Approx. 17kg/ 37 lb
	LM-P2442	240 (9.44)	420(16.5)	119 (4.69)	133 (5.23)	150 (5.90)	300(11.8)	142 (5.59)	M20, (0.78) depth 30 (1.18)	0.49 MPa or over	Approx. 38kg/83 lb