

Model LPR-VN SMALL PERMANENT MAGNETIC LIFMA*

All types for steel plates and round steel bars!



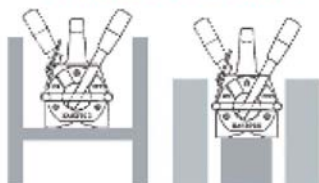
Double safety measures employed

Safety stopper
Handle lock

When operating the handle of LPR-VN75 and LPR-VN150, be sure that the safety stopper will not interfere with the lifting fixture.

Narrowest handle operating angle in the industry
Patented

Exhibits its ability in lifting section steel such as H-section steel and workpieces in small space.



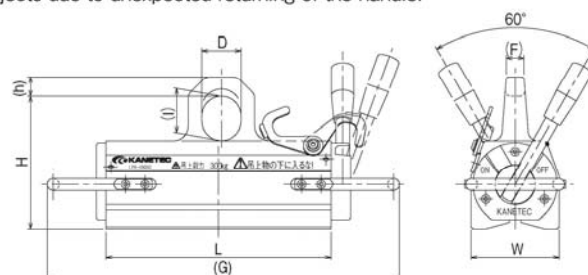
Permanent magnetic Lifma with enhanced operability and safety.

[Application]

Permanent magnetic 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. These are suitable for transporting semi-finished products having a flat surface such as machine parts, press dies and plastic molds and for transporting mill scale steel plates and flat steel materials.

[Features]

- All types are capable of lifting steel plates and round steel bars.
- 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.
- Powerful magnetic force but compact and light weight.
- The narrowest handle operating angle of 60 degrees (patented) in the industry facilitates the ON/OFF operation in small space.
- In addition to the conventional handle lock mechanism, a safety stopper is provided as a standard accessory. These double safety measures prevent falling of lifted objects due to unexpected returning of the handle.



Model	Lifting Capacity		Dimensions								Mass	
	Steel Plate	Steel bar	W	L	G	h	H	D	F	I		
LPR-VN75	75kg/ 165 lb	50kg/ 110 lb		80 (3.14)	160 (6.29)		15			15		5.5kg/ 12.1 lb
LPR-VN150	150kg/ 330 lb	100kg/ 220 lb	90 (3.54)	130 (5.11)	260 (10.2)	(0.59)	135 (5.31)	40 (1.57)		45 (1.77)		8kg/ 17.6 lb
LPR-VN300	300kg/ 661 lb	200kg/ 440 lb		230 (9.05)	360 (14.1)		20 (0.78)			18 (0.70)		14kg/ 30.8 lb
LPR-VN600	600kg/ 1322 lb	400kg/ 880 lb	119 (4.68)	330 (12.9)	500 (19.6)	(0.98)	184 (7.24)	60 (2.36)		25 (0.98)	65 (2.55)	35kg/ 77.1 lb

*The lifting capacity is indicated by a value that is a third (safety factor 3) of the max. holding power.
**LPR-VN75 is not provided with a rear guard.

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 permanent magnetic Lifma LPR-VN Series are not of waterproof construction. Ensure no water will enter or adhere to them. Rust and scratches on the attractive face affect the holding power adversely. Repair it periodically.

Lifting standards

Steel plate lifting standard (Flat steel plates)

Thickness	Model (LPR-VN)			
	75	150	300	600
16	□630(24.8)	□900(35.4)	□1200(47.2)	□1300(51.1)
	300(11.8) × 1300(51.1)	600(23.6) × 1300(51.1)	900(35.4) × 1550(61.0)	1200(47.2) × 1400(55.1)※
112	□600(23.6)	□850(33.4)	□1250(49.2)	□1450(57.0)
	300(11.8) × 1200(47.2)	600(23.6) × 1200(47.2)	900(35.4) × 1700(66.9)	1200(47.2) × 1700(66.9)
125	□450(17.7)	□650(25.5)	□950(37.4)	□1250(49.2)
	300(11.8) × 650(25.5)	600(23.6) × 700(27.5)	900(35.4) × 1000(39.4)	1200(47.2) × 1300(51.1)
150	□350(13.7)	□500(19.6)	□700(27.5)	□1000(39.4)
	300(11.8) × 400(15.7)	600(23.6) × 400(15.7)	900(35.4) × 550(21.6)	1200(47.2) × 800(31.5)
1100	□240(9.44)	□350(13.7)	□550(21.6)	□750(29.5)
	300(11.8) × 180(7.08)	600(23.6) × 200(7.87)	900(35.4) × 320(12.5)	1200(47.2) × 450(17.7)

※If plates are thinner, the handle operation becomes harder. The handle operation also becomes harder when there is clearance. The return of the handle at the time of OFF operation becomes faster.

Round steel bar lifting standard (Mill scale)

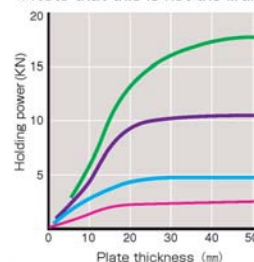
Steel bar	Model (LPR-VN)			
	75	150	300	600
Min. dia.	φ 50(1.96) × 750(29.5)L	φ 50(1.96) × 1500(59.0)L	φ 50(1.96) × 3000(118)L	φ 100(3.93) × 3000(118)L
Max. dia.	φ 200(7.87) × 150(5.90)L	φ 200(7.87) × 300(11.8)L	φ 300(11.8) × 350(13.7)L	φ 400(15.7) × 400(15.7)L
Pipe allowable dia.※	φ 50(1.96) - 200(7.87)	φ 50(1.96) - 200(7.87)	φ 50(1.96) - 300(11.8)	φ 100(3.93) - 500(19.6)

※Keep in mind that the capacity drops when lifting pipes or workpieces the max. diameter of which is smaller than the attractive face. For long workpieces, consider the use of several beams.

Note: This table is presented as a guide for actual work, but does not guarantee absolute safety. The Lifma may not perform at its maximum capacity depending on factors other than the conditions shown in the table. Check such factors fully prior to using the Lifma.

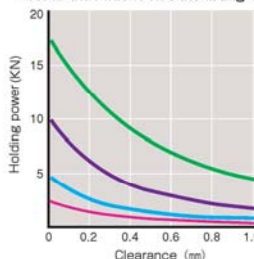
Relation between steel plate thickness and holding power

(Material SS400, surface roughness ▽▽)
※Note that this is not the lifting capacity.



Relation between clearance and holding power

(Material SS400, thickness 50 mm, surface roughness ▽▽)
※Note that this is not the lifting capacity.



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

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