# LIFTING MAGNETS

## Model LPH LARGE PERMANENT MAGNETIC LIFMA\*

### Permanent magnetic Lifma with smooth operation and enhanced safety realized by pursuing the optimum magnetic circuit to the limit.



### Steel plate lifting standard (Flat steel plates)

Thickness	Model (LPH)			
	1000	1500	2000	
t6	$\Box$ 1300(51.1)1500(59.0)×1100(43.3)			
t12	$\Box$ 1400(55.1)1500(59.0)×1300(51.1)	□1450 (57.0) 1500 (59.0) × 1400 (55.1)		
t25	$\Box$ 1350(53.1)1500(59.0)×1200(47.2)	□1550 (61.0) 1500 (59.0) × 1600 (62.9)	□1750 (68.8) 1800 (70.8) × 1700 (66.9)	
t50	$\Box$ 1300(51.1)1500(59.0)×1100(43.3)			
t100	$\Box$ 1000(39.4)1500(59.0) × 650(25.5)	□1100(43.3)1500(59.0) × 800(31.5)	□1300(51.1)1800(70.8) × 950(37.4)	

\*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 (LPH)		
Steer bar	1000	1500	2000
Min. dia.	φ100(3.93)×3000(118.1)L	φ100(3.93)×3000(118.1)L	φ150(5.90)×3000(118.1)L
Max. dia.	$\phi 500(19.6) \times 300(11.8)$ L	φ 500 (19.6) × 400 (15.7) L	%φ500(19.6)× 450( 17.7)L
Pipe allowable dia.*	φ 100 (3.93) -700 (27.5)	φ100(3.93) -700(27.5)	φ 150 (5.90) - 700 (27.5)

The capacity varies depending on the wall thickness of pipes. If pipes are oval or curved, lifting them, even if they are short, is risky. In the case of pipes, the handle operation is harder than when handling steel plates.

In the case of pipes of thin wall thickness, the handle operation becomes difficult. The return of the handle at the time of OFF operation becomes faster. The lifting capacity varies depending on the diameters of round steel bars. When workpieces are longer than 3 m, it is very dangerous to lift them with one unit of the Lifma since they cannot be held in balance. For long workpieces, consider the use of several beams

Keep in mind that the capacity dranges when lifting pipes or workpiceses, diameter of which is smaller than the attractive face or workpiceses the max. diameter of which is shorter than the lifting standard length (LPH2000).

holding power (Material ss400.surface roughness



#### Relation between gaps and holding power (Material ss400.thickness50mm.surface roughness

Note that this is not the lifting capacity

[mm(in)]

[mm(in)]



FOR WELDING OPERATION

MAGBORE\*

CHIP & SLUDGE

EQUIPMENT