

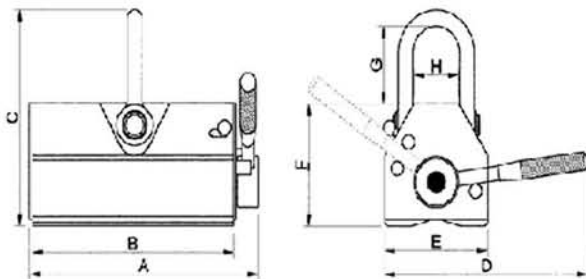


# Ningbo Realpower Magnetic Industry Co.,Ltd.

## LIFTING MAGNET LM-B SERIES

### Applications

Use the LM-B SERIES to move plate steel, block or round steel, and iron material in your shop. Super-powerful lifting magnet requires no electricity. It's perfect for loading or unloading most workpieces including press molds, plastic molds, machined parts, etc. Rated for up to 2000kgs!



Powerful magnet tested to hold OVER THREE TIMES the rated load for maximum safety  
Rated for loads up to 2000kgs.  
Eliminates dangerous straps and slings  
Fast, safe, efficient loading and unloading  
Use our handy application survey to help us determine the correct model for your lifting needs

### Note:

On all our lifting magnets there is a built-in safety factor of 3.0 times the rated load. This means that the safety factor is 3.0 times the maximum rated load for each magnet.

**WARNING: Never lift more than the maximum rated load.**

### Operation

Simply move the lever to the "ON" position to engage the magnet. Spring-loaded lock keeps the magnet engaged until you release it.

Maximum Rated Load Plate Steel

Model	Material	Maximum Rated Load	Minimum Thickness
LM-150B	plate steel	150kg	20mm
LM-300B	plate steel	300kg	25mm
LM-600B	plate steel	600kg	30mm
LM-1000B	plate steel	1000 kg	45mm
LM-2000B	plate steel	2000kg	55mm

Maximum Rated Load Plate Steel

Model	Material	Maximum Rated Load	Diameter Range	Minimum Length
LM-150B	round steel	80kg	50-200	20mm
LM-300B	round steel	150kg	25-300	25mm
LM-600B	round steel	300kg	100-500	30mm
LM-1000B	round steel	500kg	150-700	45mm
LM-2000B	round steel	1000kg	150-800	55mm

Dimensions(mm)

Model	A	B	C	D	E	F	G	H	Wt.
LM-150B	105	85	120	125	60	70	40	30	3kg
LM-300B	180	155	155	185	90	95	50	40	9kg
LM-600B	250	225	210	260	115	120	75	50	23kg
LM-1000B	280	240	287	370	165	170	95	87	50kg
LM-2000B	420	380	350	500	215	215	105	125	120kg



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Lifting power depends upon carbon content of stock, stock thickness, and surface finish.

Lifting Power BY MATERIALS				Effect of Surface Finish						
		0%	50%	100%			0%	50%	100%	150%
Carbon Content	M1	Low Carbon		100%	Surface Finish	F1	Ground Surface		125%	
	M2	Moderate Carbon		85%		F2	Rough Machined		100%	
	M3	High Carbon		75%		F3	Foundry Finish		90%	
	M4	Cast Iron		70%		F4	Rough Cast		65%	

Percent of Lifting Power (by thickness of material)						
Thickness	Depth	LM-150B	LM-300B	LM-500B	LM-1000B	LM-2000B
T1	2.36 in	100%	100%	100%	100%	100%
T2	2.16 in	100%	100%	100%	100%	100%
T3	1.97 in	100%	100%	100%	100%	95%
T4	1.77 in	100%	100%	100%	100%	90%
T5	1.57 in	100%	100%	100%	100%	85%
T6	1.38 in	100%	100%	100%	90%	75%
T7	1.18 in	100%	100%	100%	80%	65%
T8	0.98 in	100%	100%	90%	70%	55%
T9	0.79 in	100%	90%	75%	60%	45%
T10	0.59 in	100%	70%	60%	50%	35%
T11	0.39 in	70%	50%	45%	35%	25%
T12	0.20 in	40%	30%	25%	20%	15%

Calculation Example: LM-600B, rated lifting power is 600 kg. The formula for calculating range of lifting capacity is:  $T \times F \times M \times G \times \text{Capacity}$ .

T = Thickness  
F = Surface Finish  
M = Material  
G = Air Gap

ELM-600 Example: T8, F1, M2 and G  
 $90\% \times 125\% \times 85\% \times 100\% \times 600 = 573.75\text{kg}$

LM - B  
Percent of Power Vs Load Air Gap (G)  
Lifting Power Percent

Air Gap mm Model	0.00	0.25	0.50	0.75	1.00	1.25	1.50
LM -100B	100%	75%	60%	40%	30%	25%	20%
LM -300B	100%	80%	65%	45%	35%	30%	25%
LM -600B	100%	85%	70%	50%	40%	30%	25%
LM -1000B	100%	90%	75%	55%	50%	40%	35%
LM -2000B	100%	90%	75%	60%	50%	45%	40%