



Ningbo Realpower Magnetic Industry Co.,Ltd.



LM-F SERIES



- 3.Can handle finished components without leaving behind any scratch marks unlike binding and slinging.
- 4.Can be used with spreader beam multiple magnets to handle long plates /pipes/bars

Brief:

More effective use of available floor space by eliminating gauging and increasing stacking height. Large and heavy work piece can be moved safely and easily by a single operator.

Suitable for both flat and found components

Labour saving time saving

Compact execution with high lifting power

Use:

Compact and light lifting tool for safe, easy and quick transport of heavy workpieces, equipment and ferromagnetic materials in workshop and warehouse.

Description

Robust design with smooth ON/OFF switching by turning the lever 120°. Equipped with security lock. The contact surface of the magnet consists of two longitudinal poles with prism.

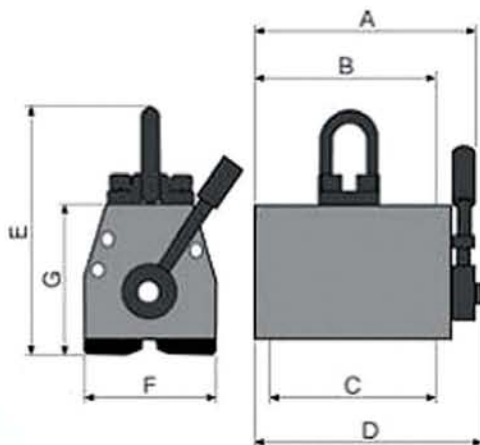
Due to the use of neodymium magnetic material these lift magnet have an enormous lifting capacity related to their size and weight. The break-away-force of e.g.. the 250 kg version is at least 100 times its own weight. The lifting magnets can easily be switched by hand in case its magnetic circuit is closed; so when the magnet is placed on the workpiece.

Suitable for flat- and round material.

Delivery includes certificate and operating manual.

Application

- 1.For handling of steel plates, blocks rounds ,press moulds and loading /unloading in machine.
- 2.Commonly used near flame cutting and dring fabrication



Model	Dimensions mm							Load max kg	Thickness min. mm	Length max mm
	A	B	C	D	E	F	G			
LM-100F	145	118	105	150	160	70	80	100	10	1000
LM-250F	187	160	145	192	175	80	80	250	20	1000
LM-500F	250	223	210	225	200	100	100	500	20	1500
LM-1000F	340	313	300	345	250	135	135	1000	35	2000
LM-1500F	394	367	354	399	285	165	170	1500	45	2500
LM-2000F	415	388	375	420	315	186	190	2000	50	2500

other size on request

Feature:

- 1.Safety factor of 3 times .
- 2.State of art design
- 3.Smaller and lighter than ever
- 4.Machine out from monolith block and thus very stable
- 5.Easily transportable.
- 6.Actuating lever with positive spring lock.



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

Lifting Power BY MATERIALS

	0%	50%	100%
Carbon Content	M1	Low Carbon	100%
	M2	Moderate Carbon	85%
	M3	High Carbon	75%
	M4	Cast Iron	70%

Effect of Surface Finish

	0%	50%	100%	150%
Surface Finish	F1	Ground Surface		125%
	F2	Rough Machined		100%
	F3	Foundry Finish		90%
	F4	Rough Cast		65%

Percent of Lifting Power (by thickness of material)

Thickness	Depth	LM-150F	LM-300F	LM-500F	LM-1000F	LM-2000F
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 - F
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 - 100F	100%	75%	60%	40%	30%	25%	20%
LM - 250F	100%	80%	65%	45%	35%	30%	25%
LM - 500F	100%	85%	70%	50%	40%	30%	25%
LM - 1000F	100%	90%	75%	55%	50%	40%	35%
LM - 1500F	100%	90%	75%	60%	50%	45%	35%
LM - 2000F	100%	90%	75%	60%	50%	45%	40%