



Ningbo Realpower Magnetic Industry Co.,Ltd.

LM-A SERIES



The most practical, safe and economical way to lift ferrous loads

Realmagnetic's Lifter are a real revolution in magnetic handling of ferrous loads.

Absolute compact dimensions and low weight, great power and total work safety are the qualities, that make them the best answer with near zero operating costs and quick return on investment for all small and large shops in the industry.

Ideal for handling workpieces in machine tools and oxygen cutting operation, for plates, sheet and iron blocks in steel structural and naval works, in steel industries and distribution centers, for changing tooling in production and in general for all the requirements of the modern mechanical workshops.

A single operator can handle the load which is always anchored and lifted from the top without deformation or damage and with optimal use of the available work space, perfect human engineering and full safety for men and equipment.

Concentrated power:

The channeling of the flow through the polar area only, i.e. only where it's needed to ensure steady, optimal performance and total lack of magnetic dispersion while avoiding undesired attraction from adjacent loads.



Compact and Sturdy:

Test load up to 100 times the weight of the lifter body (LM300). This incredible weight power ratio is provided by the double magnet circuit (rotor and stator) and the revolutionary construction.

Safe power:

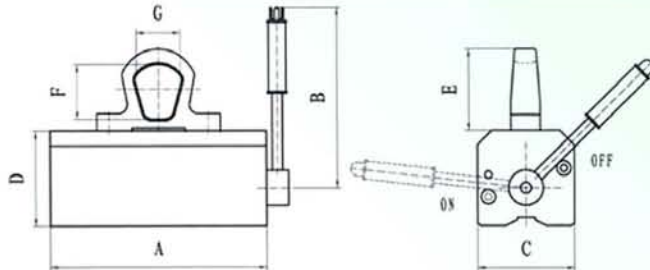
High-energy permanent magnets ensure great concentrated and steady power for an indefinite period.

The 3times safety factor of the recommended load to the test load ensures optimal working conditions even with substantial operating air gaps. The high magnetic strength of the lifter is shown by the lever's strong resistance to activation when load conditions are not perfect.



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Technical characteristics



Model Weight Dimensions mm

| Model | kg | A | B | C | D | E | F | G |
|----------|-----|-----|-----|-----|-----|-----|----|----|
| LM-100A | 3 | 86 | 150 | 66 | 67 | 63 | 35 | 43 |
| LM-300A | 9 | 180 | 168 | 80 | 80 | 63 | 35 | 43 |
| LM-600A | 20 | 250 | 198 | 107 | 103 | 88 | 52 | 60 |
| LM-1000A | 39 | 330 | 262 | 129 | 130 | 88 | 52 | 60 |
| LM-2000A | 78 | 415 | 370 | 170 | 170 | 122 | 64 | 87 |
| LM-3000A | 160 | 470 | 480 | 234 | 190 | 122 | 64 | 87 |

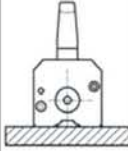
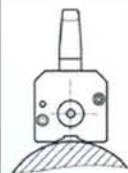
Lifting Power BY MATERIALS

| | | 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% |

Load characteristics

| Type of load | Model | Load max kg | Thickness min.mm | Length max mm |
|--|---------------------|-------------|------------------|---------------|
|  Plate | LM-100A | 100 | 15 | 1000 |
| | LM-300A | 300 | 20 | 1500 |
| | LM-600A | 600 | 30 | 2000 |
| | LM-1000A | 1000 | 40 | 3000 |
| | LM-2000A | 2000 | 45 | 3000 |
| | LM-3000A | 3000 | 55 | 3000 |
|  Round | Diameter Range (mm) | | | |
| | LM-100A | 100 | 30-100 | 1500 |
| | LM-300A | 150 | 40-300 | 1500 |
| | LM-600A | 300 | 70-400 | 2000 |
| | LM-1000A | 500 | 70-500 | 3000 |
| | LM-2000A | 1000 | 100-600 | 3000 |
| | LM-3000A | 1500 | 100-800 | 3000 |

Calculation Example: LM-600, rated lifting power is 600kg.
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

LM-600 Example: T = 25mm, F = S3, M = S45C Hardened and G = 0.5mm

Check the above table and list, the lifting capacity is:

$90\% \times 70\% \times 80\% \times 85\% \times 600 = 257\text{kg}$

