



# Ningbo Realpower Magnetic Industry Co.,Ltd.

## Table 1: Percent of Power vs Load Air Gap (G) Lifting Power Percent

	50%	100%	150%
Face			125%
Round			100%
Flat			80%
...			65%

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

	0%
F1	Ground
F2	Polished
F3	Painted
F4	Rough Cast

LM-500F	LM-1000F	LM-2000F
100%	100%	100%
100%	100%	100%
100%	100%	95%
100%	100%	90%
100%	100%	85%
100%	90%	75%
100%	80%	65%
100%	70%	55%
100%	60%	45%
100%	50%	35%
100%	35%	25%
100%	20%	15%

Thickness	Depth	LM-150F	LM-300F	LM-600F
T1	2.28 in	100%	100%	100%
T2	2.14 in	100%	100%	100%
T3	2.01 in	100%	100%	100%
T4	1.87 in	100%	100%	100%
T5	1.73 in	100%	100%	100%
T6	1.59 in	100%	100%	100%
T7	1.45 in	100%	100%	100%
T8	1.31 in	100%	100%	100%
T9	1.17 in	100%	90%	100%
T10	1.03 in	100%	70%	100%
T11	0.89 in	70%	50%	100%
T12	0.75 in	40%	30%	100%

Calculation Example: LM-600B, rated lifting power is 600 kg. The formula for calculating range of lifting capacity is: T x F x M x G x 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

Airgap mm	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%	40%	35%
LM-2000F	100%	90%	75%	60%	50%	40%	40%