# **INSTRUCTIONS FOR CALCULATING MAXIMUM LOAD BY MATERIAL TYPE**

T (thickness) x F (finish) x M (material) x Capacity = ML

Example: (ELM-600/plate steel) 2" (T=100%) x F2(100%) x M2 (85%) x 1,320 lbs. = 1,122 lbs.

#### CALCULATING MAXIMUM LOADS M Lifting Power by Material

Calculate that the magnet will safely lift your material. Maximum Load (ML) is different for plate or round materials, and depends upon stock thickness, carbon content, and surface finish. Use the tables to calculate ML for your material type.



#### F Effect of Surface Finish



#### **RATED CAPACITY**

## T EQUALS PERCENT OF LIFTING POWER BY T (THICKNESS)

Part No.	Plate Steel*	 т	FI M-100	FI M-300	FI M-600	FI M-1000	FI M-2000	FI M-300	
ELM-100	220 lbs.	2 3/8" (60mm)	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	
ELM-300	660 lbs.	2 1/0" (EEmm)	100%	100%	10070	100%	10070	050/	
ELM-600	1,320 lbs.		100%	100%	100%	100%0	100%0	93%	
ELM-1000	2,200 lbs.	2.0" (50mm)	100%	100%	100%	100%	95%	90%	
FI M-2000	4.400 lbs	13/4" (45mm)	100%	100%	100%	100%	90%	85%	
ELM_2000	4 400 lbo	11/2" (40mm)	100%	100%	100%	100%	85%	80%	
ELM-3000	0,000 (05.	13/8" (35mm)	100%	100%	100%	90%	75%	70%	
Part No.	Round Steel*	 11/8" (30mm)	100%	100%	100%	80%	65%	60%	
ELM-100	132 lbs.	1.0" (25mm)	100%	100%	90%	70%	55%	50%	
ELM-300	400 lbs.	3/4" (20mm)	100%	90%	75%	60%	45%	40%	
ELM-600	800 lbs.	1/2" (15mm)	100%	70%	60%	50%	35%	30%	
ELM-1000	1,320 lbs.	3/8" (10mm)	70%	50%	45%	35%	25%	20%	
ELM-2000	2,640 lbs.	1/4" (5mm)	40%	30%	25%	20%	15%	10%	
ELM-3000	3,960 lbs.	*Follow all directions in the Operating Instructions that comes with your magnet							

## **CUSTOM LIFTING SOLUTIONS**

Engineered to meet your requirements. Call (800) 597-3921 for a fast quote.





