



## TML 500 Lifting Permanent Magnet with Swivel

1. Only 7.3 kg dead weight
2. Max. load-bearing capacity : 500 kg ( with 3:1 safety factor )
3. 360° rotatable and 180° pivotable load swivel
4. One-handed operation ( 'inside' steel beam possible )



### Main Applications

- Building construction
- Bridge construction
- Crane
- H-Beam steel

### Advantageous

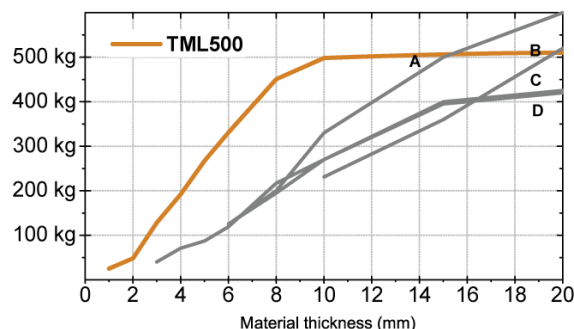
- Up to 490 kg load bearing capacity from a material thickness of 10 mm and 300 kg from just 5mm material thickness on steel S235 plus 3:1 safety factor ( i.e. the force which leads to the breakaway of the metal sheet must represent triple the maximum holding force )
- Outstanding performance on thin walled materials ( useable from as low as 2 mm )
- Up to 70 % less dead weight with at least the same performance in contrast to conventional magnets

- Easy activation with minimal effort due to the ergonomic activation lever
- Innovative operational concept allowing for an enlarged operating range
- 360° rotatable and 180° pivotable load swivel
- Wear resistant magnetic contact area made of hardened steel with TiN coating preventing damages and guaranteeing a long lifetime

### Specifications

Lifting force	1500 kg
Max. load capacity ( horizontal )	500 kg ( *Safety Factor 3 )
Lifting capacity at 6° inclination	440 kg ( *Safety Factor 3 )
Vertical lifting capacity ( Vertical )	150 kg at 90° ( *Safety Factor 3 )
Magnetic contact surface	185 x 88 mm
Storage temperature	-30°C to +60°C
Operating temperature	-10°C to +60°C
Dimensions ( L x W x H )	265 x 118 x 216 mm
Weight	7.3 Kg

Material	Magnetic force ( % )
Non-alloyed steel ( 0.1 - 0.3% C content )	100
Non-alloyed steel ( 0.3 - 0.5% C content )	90 - 95
Cast steel	90
Grey cast iron	45
Nickel	11
Stainless steel, aluminum, brass	0



### Notes :

- A : 600 kg Permanent Lifting Magnet ; 22 kg Device Weight  
 B : 600 kg Permanent Lifting Magnet ; 24 kg Device Weight  
 C : 500 kg Permanent Lifting Magnet ; 20 kg Device Weight  
 D : 500 kg Electromagnet ; 8 kg Device Weight

Material Thickness ( mm )	Load Capacity in kg					
	Clean, flat, ground surface Air gap <0.1 mm		Rusty, slightly, scratched surface Air gap = 0.25 mm		Irregular, rusty or rough surface Air gap = 0.5 mm	
	0°	6°	0°	6°	0°	6°
2	50	44	45	39	40	35
3	130	110	115	100	85	72
4	195	170	160	140	135	115
5	300	260	340	205	190	165
6	360	315	270	235	220	190
8	455	395	310	270	240	205
10	490	430	360	310	260	225
15	500	440	365	315	250	215
>20	500	440	370	320	250	220

Item Code	Item Name	MoQ
109.12.002	TML 500 - Lifting Permanent Lifting Magnet with Swivel	1 Pc