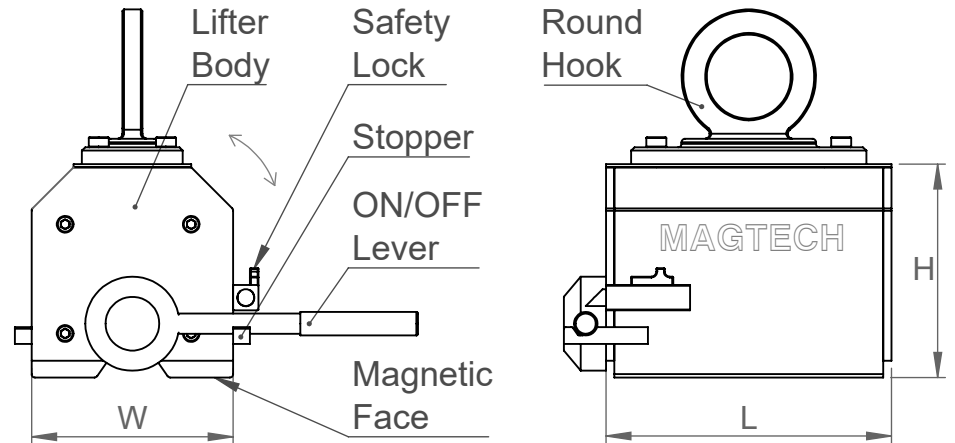


## Permanent Magnetic Lifter



### Application

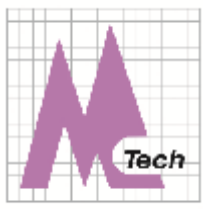
Permanent Magnetic Lifter is a device, required for easily handling of material so that laborious and time consuming work can be avoided. In addition to that those material not having any provision for engaging the crane hook or any similar arrangement Magnetic lifter is solution for it. Hence it increases efficiency and productivity.

### Characteristics

- These lifters consist of powerful Nd Fe B grade magnets it helps to reduce the self weight and increases lifting capacity of lifters.
- This lifter is operated by simple turn of lever for energize & de-energize (ON-OFF), no external power is required.
- We provide three times factor of safety in it, which means, if lifter is recommended for 100 Kgs weight lifting capacity it has been tested for 300 kgs lifting capacity.
- The 1:3 safety factor of recommended load. Test load ensures optimal working conditions even with substantial operating air gaps.

### Operating Instructions

- Permanent Magnetic Lifter use for any ferrous material.
- The magnetic Field controlled by ON/OFF position of the handle/ lever.
- In "OFF" position, the handle is reset on the stopper to provide a total magnetic circuit will be short within the lifter body.



## Permanent Magnetic Lifter

- In “ON” position, the handle is rotated clockwise through 180 degree so that concentrated magnetic field is produced and transfer to the job through the poles.
- To release load, turn the handle anticlockwise or in reverse direction for de-active the magnetic field.

### Spares

- All the spares like magnetic assembly, handle, safety lock assembly, stoppers, hook etc. are available so that lifter never in scrap (unused) conditions by wants of these spares.

### Precautions

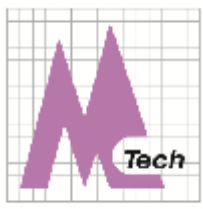
- a) Lifter used for that application which it made.
- b) Do not lift weight beyond recommended lifting capacity.
- c) Assure contact area and balance while lifting.
- e) Do not try to lift very HOT jobs.
- f) Magnetic faces should keep clean and dent free.
- g) When lifter is not in use for long period apply grease OR oil on magnetic faces it avoid to rusting of it.
- h) It is recommended to test load at least in a year so that it confirm the lifting capacity and life of spares.

### Safety Factors

- We provide three times factor of safety in it, which means, if lifter is recommended for 100 Kgs weight lifting capacity, it has been tested for 300 kgs lifting capacity, because practically magnetic face is not cover 100% with lifting object due to its unevenness, scaling, some coating on the job punching, some character or number etc. these all factors are creating GAP between magnetic face and lifting object, hence factor of safety should be considered.

### Performance of Lifter

- Consider 40% lifting force while lifting round job due to it line contact. For 100% utilization of recommended capacity, required close contact between magnetic face and lifting object.



## Permanent Magnetic Lifter

### Safety Related NORMS

- Lifters are checked on Universal Testing Machine (UTM) for load testing. After testing it certify by the Laboratory and provide the certificate
- Considering three times factor of safety, that means if the lifter is being recommended to lift 100kgs, this lifters should be lift 300 kgs, at least.
- NOTE: It is recommended to test load at least in a year so that it confirm the lifting capacity and life of spares.

### Operation Sequence (Follow-up the steps)

- 1) Hang the lifter with crane hook.
- 2) Align the lifter on lifting object and confirm whether the lifters are aligned properly or not (it should be properly align)
- 3) Turn the lever for energize (ON) it.
- 4) Lift it for 6" height (approximate) and confirm whether its properly lifted or not.
- 5) Carry it to desired place with minimum height from ground level (1 feet height approximate).
- 6) After reaching to desire place, it kept properly and then de-energize (OFF) it.

### Product Range

Code No.	Nominal size (LxWxH)	Lifting Capacity	Self Weight (Approx)
010-01-08	130x120 x100 mm	100 kgs	8 kgs
010-01-18	215x110 x135 mm	200 kgs	15 kgs
010-01-01	160x115 x135 mm	300 kgs	20 kgs
010-01-22	240 x115x135 mm	400 kgs	28 kgs
010-01-11	220 x135x135 mm	500 kgs	30 kgs
010-01-03	290 x135x135 mm	600 kgs	32 kgs
010-01-05	305x140x180 mm	1000 kgs	55 kgs
010-01-06	450x160x180 mm	1500 kgs	85 kgs
010-01-23	520x160x180 mm	2000 kgs	120 kgs

# Permanent Magnetic Lifter

## Applications

Round Bar Handling



Square Tube Handling



Profile Plate Handling



Electrical Component Handling



Heavy Machined Components Handling



Casting Components Handling



Mechanical Assembly Handling



Heavy Machined Components Handling



Lifter Testing on Flat Contact Area



Lifter Testing on Circular Contact Area



Universal Testing M/c Lable



Universal Testing M/c Result

