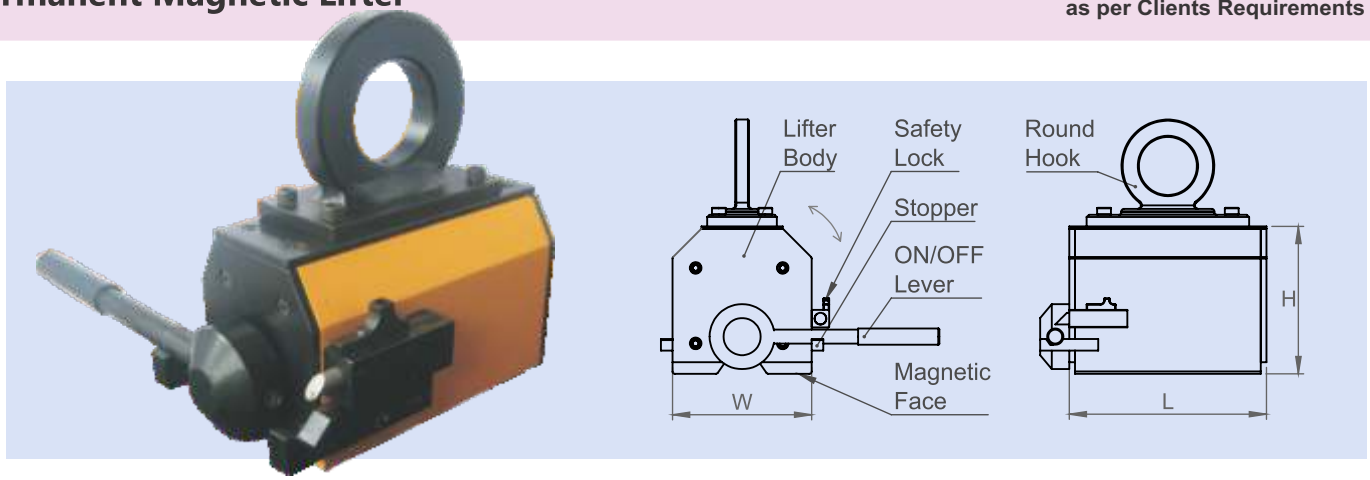
Permanent Magnetic Lifter

MagTECH ASSOCIATES
SINCE1996
Manufacturing Magnetic Product as per Clients Requirements



Application

Permanent Magnetic Lifter is a device, require for easily handling of material so that labourious 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

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

Operating Instructions

a) Permanent Magnetic Lifter use for any ferrous material.
b) The magnetic field controlled by ON/OFF position of the handle/ lever.
c) In "OFF" position, the handle is reset on the stopper to provide a total magnetic circuit will be short within the lifter body.
d) 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.
e) 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 will never go in the scrap (unused) conditions by requirement of these spares.

Precautions

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

Magtech Associates

Tel. : (020) 2749 09 53, **Mob** : +91 9850 08 69 39 (Yogesh Naik) **Email** : yogeshnaik@magtechassociates.com, magyog@gmail.com,
Website : www.magtechassociates.com, www.demagnetizerpune.com

Safety Related NORMS

Lifters are checked on Universal Testing Machine (UTM) for load testing. After testing, it is certified by the Laboratory and the certificate. is provided. Considering three times factor of safety, that means if the lifter is being recommended to lift 100kg, these lifters are able to lift 300 kg , at least.

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 aligned)
3) Turn the lever for energize (ON) it.
4) Lift it for 6" height (approximate) and confirm whether it is 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, keep it properly and then de-energize (OFF) it.

NOTE: It is recommended to test load at least in a year so that it confirms the lifting capacity and life of spares.

Magtech Associates

Available Sizes

Code No.	Nominal Size (LxWxH)	Lifting Capacity	Self Weight (Approx)
010-01-08	130x120x100 mm	100 kgs	8 kgs
010-01-18	215x110x135 mm	200 kgs	15 kgs
010-01-01	160x115x135 mm	300 kgs	20 kgs
010-01-22	240x115x135 mm	400 kgs	28 kgs
010-01-11	220x135x135 mm	500 kgs	30 kgs
010-01-03	255x135x135 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

Applications

Round Bar Handling



Squre Tube Handling



Medium Size Plate Handling



Large Size Plate Handling



"I" Beam Handling



Laminate Core Handling



Tel. : (020) 2749 09 53, Mob : +91 9850 08 69 39 (Yogesh Naik) **Email** : yogeshnaik@magtechassociates.com, magyog@gmail.com,
Website : www.magtechassociates.com, www.demagnetizerpune.com

MagTECH ASSOCIATES

SINCE 1996

Manufacturing Magnetic Product as per Clients Requirements

Applications

Laminate Core Lifting



Heavy Job Lifting in vertical Position



Heavy Job Lifting in Horizontal Position



Machined Job Lifting



Hollow Job Lifting



Big Size Plate Lifting (6 mtr x 1.5 mtr x 6mm thick)



Small Heavy Job Handling



Lifter Testing on Circular Contact Area



Lifter Testing on Flat Contact Area



UTM Machine for Lifter Testing



All lifters are load tested on Universal Testing Machine

Tel. : (020) 2749 09 53, Mob : +91 9850 08 69 39 (Yogesh Naik) **Email** : yogeshnaik@magtechassociates.com, magyog@gmail.com,
Website : www.magtechassociates.com, www.demagnetizerpune.com