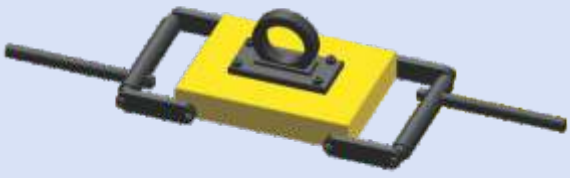
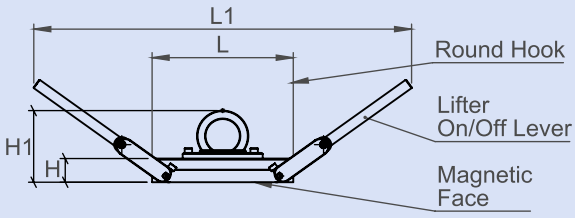
Material Handling Equipment

Plate Lifting Permanent Magnetic Lifter

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SINCE1996
Manufacturing Magnetic Product as per Clients Requirements

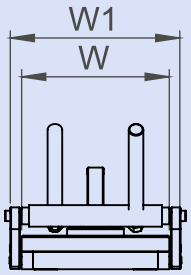
Magnet ON Position





Magnet OFF Position





Application

Plate Lifting Permanent Magnetic Lifter is a device, require for easily handling of plates so that labourious and time consuming work can be avoided.

Conventionally chains, slings and clamps are using for lifting plates, but this method is having limitations because generally multiple plates kept in stacked hence it is difficult to engage chain hook sling/clamp in it , it has to create gap between the plates for engaging it. But this method is totally labourious and time consuming similarly not safe.

In this circumstance "Plate Lifting Magnet" is solution for it.

Characteristics

1) These lifters consist of powerful Nd Fe B grade magnets it helps to reduce the self weight and increases lifting capacity of lifters.
2) This special type of Permanent Magnetic Lifter is used for especially PLATE LIFTING. This device is energized and de-energized (ON-OFF) by simply turn of TWO LEVERS (Handles). No external power supply is required for operating it.
3) The effectiveness of lifting is varying due to plate size (area of plate) hence as per plate size multiple lifters are required; see the photographs which are self explanatory.
4) M.S. Fabricated tackle is required to hang multiple lifters for balancing of plate and avoid sag of plate; it can be design according to plate sizes.
5) 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. The Test Load ensures optimal working conditions even with substantial operating air gaps.

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Operating Instructions

1) Permanent Magnetic Plate lifter is used for any ferrous material.
2) The magnetic field is controlled by the ON/OFF position of the handle/lever.
3) For energizing (ON) , rotate both the handles in downward direction.
4) For De-energizing (OFF), rotate both the handles in upward direction.

Spares

All the spares like, magnetic assembly, handle, hook etc. are available so that lifters will never go in scrap(unused) condition by requirement of these spares.

Accessories

A) MS Fabricated Tackle B) Sling, Chains, 'D' shackle, links etc.

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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 to avoid the rusting.
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 Kg weight lifting capacity, it has been tested for 300 kg 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 char actor 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.

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.

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Operation Sequence (Follow the steps)

1) Hang the lifter with M.S. fabricated tackle.
2) Align the lifters with the plate and confirm whether the lifters are aligned properly or not. (it should be properly align)
3) Turn both handle/ lever in down direction 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.
7) Turn both handle/lever in upward direction for 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.

Model Code	Size (L x W xH)	Lifting capacity
010-02-01	200 x150x50mm	250Kgs
010-02-02	300x 200x50mm	500kgs

Applications

Fabricated Assy. Handling



Plate Handling



Sheet Metal Handling



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