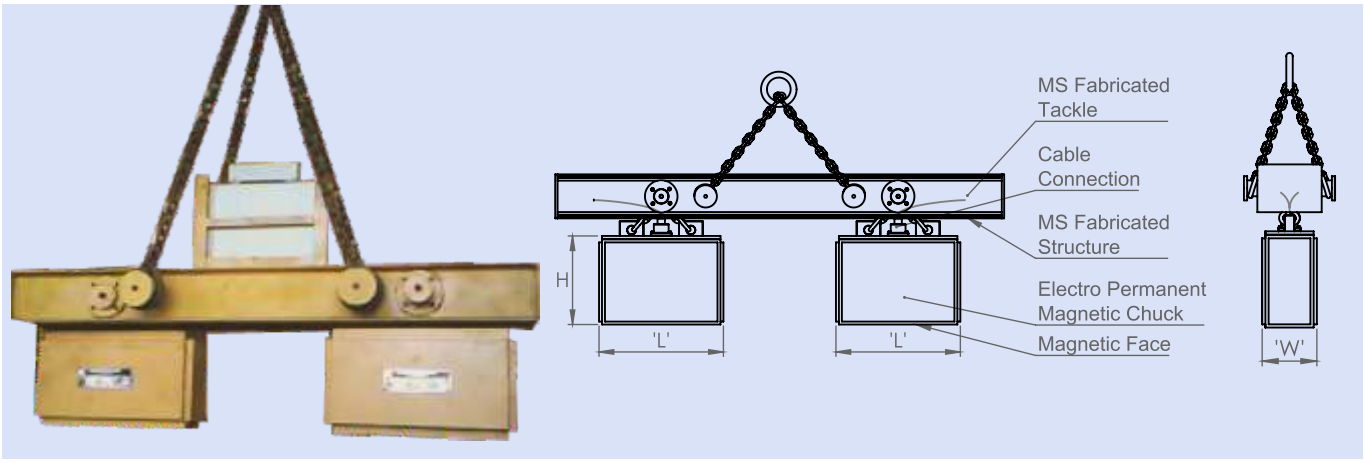
Material Handling Equipment

Electro Permanent Magnetic Lifter (EPM)

MagTECH ASSOCIATES
SINCE1996
Manufacturing Magnetic Product as per Clients Requirements



Application

EPM lifter is a device, which is required for easy handling of material so that laborious and time consuming work can be avoided, in addition to that, the material for which there is no provision for engaging the crane hook or any similar arrangement then, magnetic lifter is the solution for it. Hence it increases efficiency and productivity.

Characteristics

A special feature of this kind of lifter is it requires External Power supply for energized and De-energized (ON -OFF) purpose only, during the operation continuous power supply is not required absolutely.

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 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 character or number etc. these all factors are creating GAP between magnetic face and lifting object, hence factor of safety should be considered.
The 1:3 safety factor for recommended load.
Test load ensures optimal working conditions even with substantial operating air gaps.

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, then this lifters can lift 300 kg, at least.

Operation Sequence (Follow the steps)

1) Installed Control Panel is required on crane or at nearby location.
2) External A.C. supply to the control panel is provided
3) Connect Control panel with EPM Lifter & Operating Pendent.
4) Hang the lifter with M.S. Fabricated tackle (if use).
5) Hang this total assembly with crane hook.
6) Align the lifter on lifting object and confirm whether the lifters are aligned properly or not (it should be properly aligned).
7) Push "RESET" button and then Magnet "ON" button on operating pendent for energizing of lifter.
8) Lift it for 6" height (approximate) and confirm whether it is properly lifted or not.
9) Carry it to desired place with minimum height from ground level(1 feet height approximate).
10) After reaching to desire place, keep it properly and push "RESET" button and then Magnet "OFF" button on operating pendent for de- energizing of lifter.

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Scope of supply

A) EPM Lifter
B) Control Panel (Rectifier unit).
C) Operating Pendent.

Accessories

A) MS Fabricated Tackle.
B) Sling, Chains, 'D' shackle, links.
C) Flexible Cable.
D) Cable Carriers, E) Cable Drum.
F) Wire Rope for Cable carriers.
G) Clamps for wire Rope.
H) Control panel unit consisting electrical spares

Precautions

a) Lifter must be used only for the application for which it is 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 confirms the lifting capacity and life of spares.
I) It is also recommended to test/inspect control panel, fabricated tackle, chains, sling and other spares at least in a year so that it confirm the lifting capacity and life of spares.

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Available sizes

Model Code	Nominal Size (mm)	Lifting Cap.	SelfWt. (Approx)
013-01-01	L 350 x W100 x H110	300kgs	30kgs
013-01-02	L405 x W230 x H80	600kgs	60kgs
013-01-03	L465 x W175 x H220	1000kgs	150kgs

Application

Heavy Billets Handling









Accessories : Required Capacitor discharge unit For operating this lifter

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