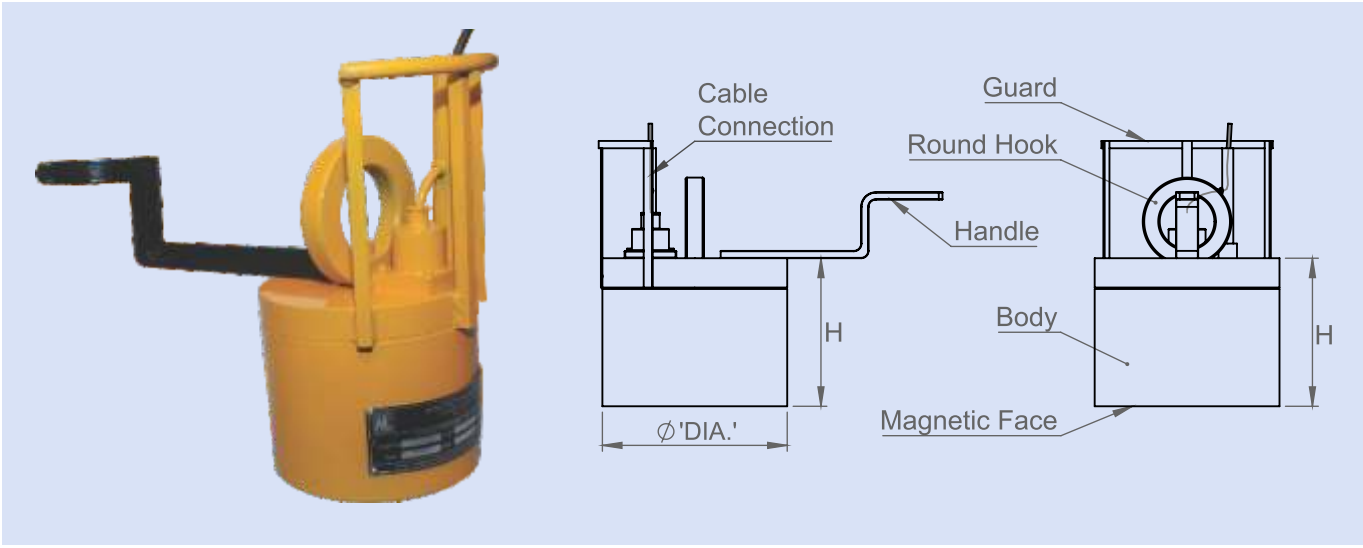
# Electromagnetic Lifter -Circular shape

MagTECH ASSOCIATES
SINCE1996
Manufacturing Magnetic Product as per Clients Requirements




## Application

Electromagnetic Lifter is a device, require for easy 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 a solution for it. Hence it increases efficiency and productivity.

## Characteristics

1) This device requires continuous D.C. power supply for energized (ON) battery backup facility available for fails safe only (with extra cost).
2) 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.
3) The 1:3 safety factor of recommended load. Test load ensures optimal working conditions even with substantial operating air gaps.
4) While using multiple lifters at a time, M.S. fabricated tackle is required to hang all lifters for balancing of plate & avoid sagging. The tackle design according to plate sizes

## Operating Instructions

1) Electromagnetic Lifter is used for any ferrous material.
2) The magnetic field is controlled by operating pendent like Magnet ON & Magnet OFF.

## Scope of supply

A) Electromagnetic 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 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.
d) Do not try to lift very HOT jobs.
e ) Magnetic faces must be kept 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 lifting capacity and life of spares. Also check control panel and tackles spares such as slings chains and other 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 100% covered with lifting object due

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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 its line contact. For 100% utilization of recommended capacity, it requires 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 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, this lifters should be lift 300 kg, 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.

## Application



## Operation Sequence (Follow the steps)

1) Installed Control Panel is required on crane or at nearby location.
2) Provide external A.C. Supply to the control panel.
3) Connect Control panel with Electromagnetic Lifter & Operating Pendent.
4) Hang the lifter with M.S. Fabricated tackle.
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 align).
7) Push 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, it keep properly and push magnet OFF button for de-energizing of lifter.

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## Available sizes

| Model Code | Nominal Size (mm) | Lifting Cap. | Self Wt. (Approx) |
|---|---|---|---|
| 011-01-01 | Dia. 165 xH140 | 100kgs | 20kgs |
| 011-01-02 | Dia. 195 xH150 | 250kgs | 45kgs |
| 011-01-03 | Dia. 260 xH160 | 500kgs | 70kgs |
| 011-01-04 | Dia. 300 xH80 | 800kgs | 85kgs |

## Mag Demag Unit with Pendent



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