

Datasheet

Magnetic Hand Lifter



ECLIPSE
MAGNETICS



WORKSHOP

At A Glance

- Picks up ferrous components easily
- Non-slip rubber grip handle
- Very high hold force ability
- Easy attachment and release ability
- Allows for handling awkward parts



Pick-Up Range

The Magnetic Hand Lifter is a Magnetic Pick-Up and Plate Drag unit - a small yet very powerful magnetic pick-up tool that lets you pick up ferrous components such as plates and discs very easily. The non-slip rubber handle makes using it very comfortable.



The Magnetic Hand Lifter is capable of picking up parts up to 15kg (33lb) in weight (taking into account a 3:1 Safety Factor) - previously rated at 45kg (99lb) without the Safety Factor. Only use this as a ferrous plate drag on thin plate and sheet. Never use it as a dedicated Lifter (we offer dedicated Magnetic Lifters with built-in 3:1 Safety Factor for Lifting applications).

The Magnetic Hand Lifter is great for creating temporary barriers using barrier/hazard tape between ferrous racking in warehouses - you can cordon off an area quickly and safely. You can also quickly and easily pick up ferrous components that may include discs, plates or even parts that are awkward shapes or sizes. You can use it to transfer small plates, discs etc from one work area to the next (if safe to do so - noting that, from the above information, a Magnetic Lifter is the H&S choice for a safe lift of plate). It can be used to grab magnetic screws, nails, etc but removing them easily may be not so simple due to the high hold force rating.

The rubber grip makes using it easier. Simply put it against a ferrous part (e.g. mild steel) and it will start to clamp. To release, you 'lever' the part away (to make an air gap to start to break the magnetic circuit) - tilting it to the side relative to the part whilst pulling it away (you may need to push the clamped part away as well). The level of hold varies with application and will be reduced if the material is less magnetic, if there are air gaps, smaller part being picked, etc - the performance is application specific.

Benefits

- Pick-up ferrous parts such as plates, discs
- Easy to attach, easy to release
- Comfortable rubber grip non-slip handle
- High hold force potential
- Up to 15kg (33lb) pull force (with 3:1 Safety Factor applied)

Materials

Magnetic Material	Proprietary Permanent Magnet grade material
Other Parts	Various, including Mild Steel, Rubber

Performance

Magnetic Performance	Up to 15kg (33lb) pull force (with 3:1 Safety Factor) - see next page
Magnet Type	Permanent Magnet bi-pole Assembly
Temperature Range	-40°C to +80°C (-40°F to +176°F)

Maintenance

- There is no specific requirement to regularly inspect this item
- Cleaning of surfaces can be achieved using a cloth (bearing in mind the magnetic face may have sharp debris on it - check before cleaning)

Suitability

Suitable Products	Ferrous materials (e.g. mild steel)
Suitable Location	Example - workshop, shop floor, fabrication, etc

Alternatives

- Hand-Held Pick-Up Tool, Heavy Duty Hand-Held Magnetic Pick-Up Tool
- Long Reach Heavy Duty Hand-Held Magnetic Pick-Up Tool
- Magnetic Pick-Up Tool
- Magnetic Pick-Up Wand

Eclipse Magnetics Work Smart with Magnets

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Product Number	Dimensions (mm)			Weight (kg)	Pull Force* (kg)	Units per Pack
	Length A	Width B	Height C			
MHL	130	28	85	0.42	15	1

* The Pull Force stated is the maximum each product can pull onto a large high quality mild steel slab (to give relative performance values). This 15kg value includes a 3:1 Safety Factor (for use as a Plate Drag) - it is capable of up to 45kg is picking up small ferrous items (not a Lifting Application). In most applications, the magnetic parts will be of varying shapes and sizes with varying magnetic permeability so it should be expected that your application is likely to hold less than the stated values.

This item was previously rated with a 45kg pull rating but we have decided to use a 3:1 Safety Factor due to it being used to Drag Ferrous Sheets and Plates.

If you want to safely lift Ferrous Sheet and Plate, you need to use a Magnetic Lifter which is dedicated to such applications (H&S) and has the 3:1 Safety Factor built-in.

For further assistance, please contact sales@eclipsemagnetics.com

Although we have made every attempt to provide accurate information, we do reserve the right to change any of the information in this document without notice.

We cannot accept any responsibility or liability for any errors or problems caused by using any of the information provided.

Conversions Guide:-

1kg \approx 2.204lb \approx 9.806N

1lb \approx 0.453kg \approx 4.448N

1N \approx 0.101kg \approx 0.224lb

10mm \approx 0.393in (\approx $\frac{25}{64}$ in)

1in \approx 25.4mm

(the above conversion values are rounded down)



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