

Datasheet

Steel Plate Drag



ECLIPSE
MAGNETICS



WELDING

At A Glance

- ✓ Drag ferrous plates and sheets
- ✓ Multiple pole on clamping face
- ✓ Handle operates a Quick Release
- ✓ 50kg or 100lb drag force rating
- ✓ 170kg (374lb) pull force rating



Magnetic Welding Aids **Range**

The Steel Plate Drag is used to remove ferrous steel sheets and plate from a stack and for transporting ferrous sheets and plates to and from machines. The lever can be positioned to operate a quick release mechanism to force the Steel Plate Drag to push the steel sheet or plate off the magnetic clamping surface.

The Steel Plate Drag has a rated drag force of up to 50kg or 100lb. This value is less than its maximum pull force rating. Do not use this product as a Lifter.

The Steel Plate Drag handle has an elliptical profile (snail cam shape) at its base. When the handle is moved in the other direction, the release mechanism is not activated so the ferrous plate or sheet can be dragged as required by the user. But when it is moved in the other direction, it starts to push down on a spring mounted release bolt mechanism. When this bolt mechanism starts to press downwards the ferrous steel component it is connected to begins to be pushed away causing the magnetic hold to be prised away allowing a quick and safe release of the hold.

The Steel Plate Drag has multiple poles on its clamping surface allowing very high clamping forces to be created to allow a great drag ability as well. The Steel Plate Drag has a holding force capability of up to 170kg (374lb) pull force rating. The drag force rating is less than the pull force rating and is dependent on factors which also includes friction levels. The Steel Plate Drag has a drag force rating of up to 50kg or 100lb. The actual pull force and drag force achieved depends on the ferrous material being held and this varies with factors such as material type- the actual pull force and drag force achieved is application specific.

Benefits

- Up to 50kg or 100lb drag force
- Up to 170kg (374lb) holding force
- Quick Release mechanism
- Multiple pole on clamping face for maximum performance
- Transport ferrous plate and sheet by dragging method

Materials

Magnetic Material	Ferrite magnet grade material
Other Parts	Various, including Mild Steel, Aluminium

Performance

Magnetic Performance	Up to 50kg or 100lb drag force Up to 170kg (374lb) pull force - see next page
Magnet Type	Permanent Magnet Assembly
Temperature Range	-40°C to +120°C (-40°F to +248°F)

Maintenance

- There is no specific requirement to regularly inspect this item
- Easy cleaning of surfaces can be achieved using a cloth

Suitability

Suitable Products	Ferrous sheets, ferrous plates
Suitable Location	Example - workshop, fabrication area, mild steel stockholders

Alternatives

- Ultralift+ Lifter
- Ultralift TP Lifter
- 90° Disc and Plate Lifter
- Ultralift LM Lifter
- Ultralift E Lifter
- Optimag E / Optimag P

Eclipse Magnetics Work Smart with Magnets

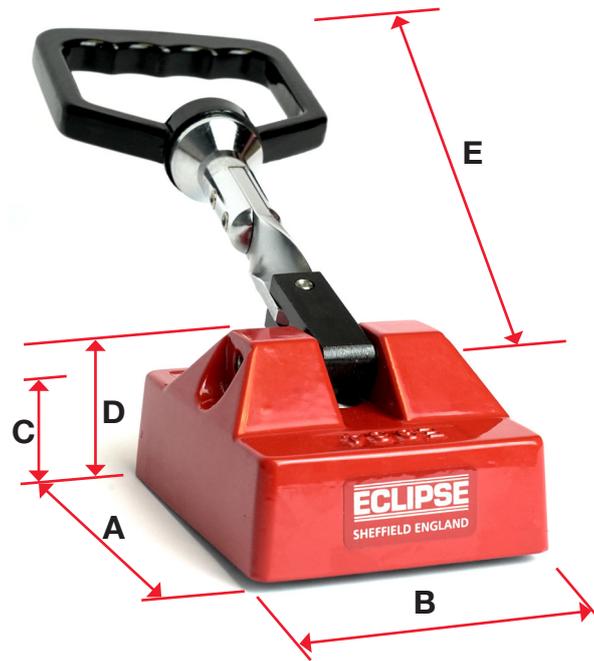
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Steel Plate Drag



Product Number	Dimensions (mm)					Drag Force** (kg)	Weight (kg)	Pull Force* (kg)	Units per Pack
	Length A	Width B	Height C	Height D	Handle Length E				
E964	118	98	38	62	~266	50	2.8	170	1

* The Pull Force is rated using 10mm thick mild steel plate against the longest side. The actual performance is application specific - thinner material, less magnetic material, air gaps, and elevated temperatures, etc can all reduce the magnetic performance. Do not use this Product as a dedicated lifter (because it does not have a 3:1 Safety Factor pull force rating) - for Health and Safety (H&S) reasons please use one of the dedicated Ultralift Lifter products or one of the dedicated pick and place Optimag E / Optimag P products instead.

** The Drag Force is rated using 10mm thick mild steel plate against the longest side. The actual performance is application specific - thinner material, less magnetic material, air gaps, and elevated temperatures, etc can all reduce the magnetic performance. The Drag Force is always less than the Pull Force (a 3:1 minimum downrate from the actual pull force achieved is a rough guide).

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 ≈ 2.204lb ≈ 9.806N

1lb ≈ 0.453kg ≈ 4.448N

1N ≈ 0.101kg ≈ 0.224lb

10mm ≈ 0.393in (≈ 25/64in)

1in ≈ 25.4mm

(the above conversion values are rounded down)



FM 31278 EMS 616377

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