Datasheet
UltraLift TP

ECLIPSE MAGNETICS LIFTING

At A Glance

- Safe lift of Thin Plates and Pressings
- 3:1 WLL (SWL) - up to 400kg (880lb) lift
- Lift single sheets from top of stacks
- Lever to manually Switch 'On' and 'Off'
- Switch has Locking Safety Mechanism

Lifting Range

Our UltraLift TP lifter range has been designed specifically to be used in the safe lifting of ferrous materials in the forms of thin plate and thin pressings.

The performance of these units is application specific.
Never exceed the WLL (Working Load Limit) - formerly the SWL (Safe Working Load). The Safety Factor for lifting is 3:1 for this range. Always use LOLER, PUWER, ASME B30.20 and H&S advice.

The UltraLift TP range is used to lift thin ferrous sheets, thin ferrous pressings and ferrous sections all with thicknesses ranging from 5mm thick up to 10mm thick. The WLL/SWL for thin ferrous sheets varies from up to 75kg (165lb) for the TP150 rising to up to 400kg (880lb) for the TP300. Please note that the WLL/SWL varies with sheet thickness. These figures are based on lifting high quality mild steel of the stated sheet thickness with no air gap in the way (see table on next page for further details).

The UltraLift TP Thin Plate lifter can also be used for lifting single sheets from the tops of stacks of sheets due to the design of the magnetic pathways. The TP range is not suitable for the lifting of round bar - please look at the UltraLift+ (UltraLift Plus), UltraLift LM and UltraLift E ranges for round bar lifting.

Maintain Health & Safety at all times. Perform a small safety lift first. Lifting performance could vary depending on the application. Performance will vary with air gap, steel shape (steel thickness and/or diameter), steel type (permeability), surface finish and temperature. Lift loads vertically with load not unbalanced, avoiding any sudden movements. Thinner and wider materials may bend/flex risking peel and lift failure - use spreader beams for wider loads and for loads that bend/flex.
Do not use any lifter if it appears to be damaged. Inspect the lifter at least annually. We can inspect and service/repair our Lifters for you.

Benefits

- No Power Supply required
- 3:1 Safety Factor for lifting
- Locking switch handle safety mechanism
- Lifts Thin Ferrous Sheet and Pressings
- Can lift a single ferrous sheet from the top of a stack of ferrous sheets

Materials

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

Performance

Magnetic Performance	Up to 400kg (880lb) WLL (SWL) (value varies with thickness) - see next page
Magnet Type	Permanent Magnet Lifter
Temperature Range	-10°C to +40°C (14°F to +104°F)

Maintenance

- As part of LOLER, PUWER, ASME B30.20 and H&S advice, you need to regularly inspect Lifters to ensure they are not damaged and are suitable for lifting the parts
- Annual inspection is a minimum requirement
- We can inspect and service / repair our Lifters for you

Suitability

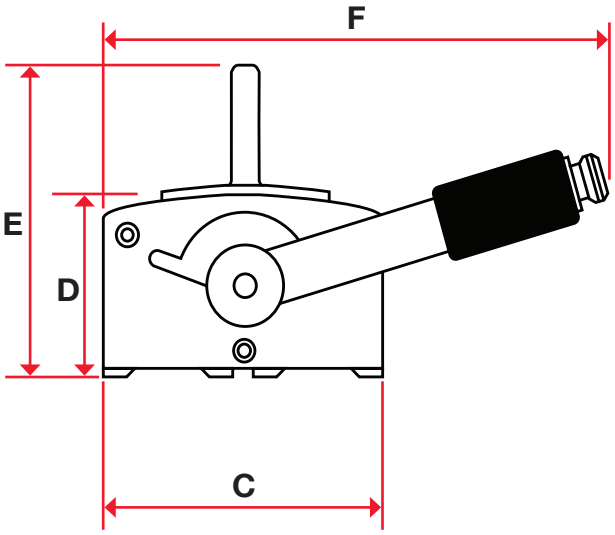
Suitable Products	Ferrous materials (e.g. mild steel)
Suitable Location	Example - factory shopfloor / production line

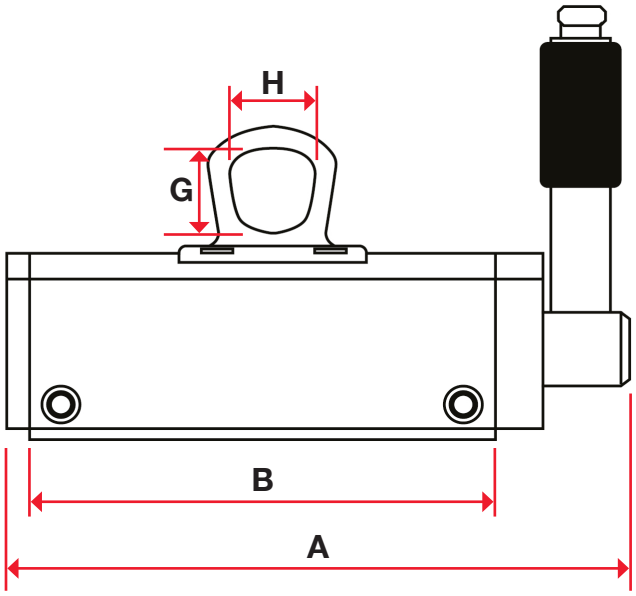
Alternatives

- UltraLift+ (maximum safety lifting) for thicker ferrous plate and round bar
- UltraLift LM for thicker ferrous plate & round bar (with 90° lift frame variant)
- UltraLift E for thicker ferrous plate and round bar

Eclipse Magnetics Work Smart with Magnets
Atlas Way, Atlas North, Sheffield, S4 7QQ, England +44 (0)114 225 0600 +44 (0)114 225 0610 info@eclipsemagnetics.com www.eclipsemagnetics.com
A Spear & Jackson Company

Datasheet
UltraLift TP





Product Number	Dimensions (mm) A	B	C	D	E	F	G	H	Self Weight (kg)	5mm Thin Plate Flat Plate WLL / SWL* (kg)	5mm Thin Plate Maximum Material Length (mm)	6mm Thin Plate Flat Plate WLL / SWL* (kg)	6mm Thin Plate Maximum Material Length (mm)	8mm Thin Plate Flat Plate WLL / SWL* (kg)	8mm Thin Plate Maximum Material Length (mm)	10mm Thin Plate Flat Plate WLL / SWL* (kg)	10mm Thin Plate Maximum Material Length (mm)	Units per Pack
TP150	202	150	101	74	126	181	34	26.7	8	75	1500	100	1500	150	1500	200	1500	1
TP300	352	300	101	74	126	181	34	26.7	15	150	2000	200	2000	300	2000	400	2000	1

* Please note that the Working Load Limit (WLL) is now used instead of Safe Working Load (SWL). The Lifting force values shown include the 3:1 safety factor and have been based on using the stated Thin Plate thicknesses of high magnetic permeability steel with no air gaps. Air gaps, thinner materials and materials with lower magnetic permeability can all reduce the pull force a lifter can actually achieve. Please note that the achievable pull force is reduced when lifting thinner mild steel plate. You must follow LOLER, PUWER, ASME B30.20 and H&S advice. You should always check for a downrate, factor in any downrate to then perform a safety lift, then perform a full lift only after a successful safety lift.

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)

bsi. ISO 9001 Quality Management FM 31278 ISO 14001 Environmental Management EMS 616377

Eclipse Magnetics Work Smart with Magnets
Atlas Way, Atlas North, Sheffield, S4 7QQ, England +44 (0)114 225 0600 +44 (0)114 225 0610 info@eclipsemagnetics.com www.eclipsemagnetics.com

A Spear & Jackson Company