Ultralift TP Magnetic Lifter

At A Glance

- Safe lift of Thin Plates and Pressings
- Lifts material as thin as 5mm
- Lifts single plates
- Lever to manually Switch 'On' and 'Off'

Why a Thin Plate Magnetic Lifter?
Thin plate lifters have an increased number of pole feet. They are designed for specifically lifting thinner sheets/plates

Using a standard magnetic lifter on thin plate results in:
- Dramatically reduced performance
- Unsafely picking up multiple sheets rather than separately
- Unsafe lifts

Spreader Beams
Eclipse Magnetics supply a range of spreader beams for longer and wider steel plates. We also produce equipment for tilting the load through 90 degrees.

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.

Benefits

- A lifting magnet designed for lifting thin plates safely
- Ability to lift single sheets/plates
- Simple, quick operation
- Two sizes in the range: TP150 and TP300
- Larger plates can be lifted using two or more lifting magnets on a spreader beam

Performance

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

Suitability

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

Materials

Magnetic Material	Neodymium Iron Boron
Other Parts	Various, including Mild Steel, Aluminium, Plastic

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 carry out on site lifter testing
- We can inspect and service / repair our Lifters for you

Alternatives

- UltraLift Plus (maximum safety lifting) for thicker ferrous plate and round bar
- UltraLift E for thicker ferrous plate and round bar
- Optimag P (PSPM)
- Optimag E (ESPM)

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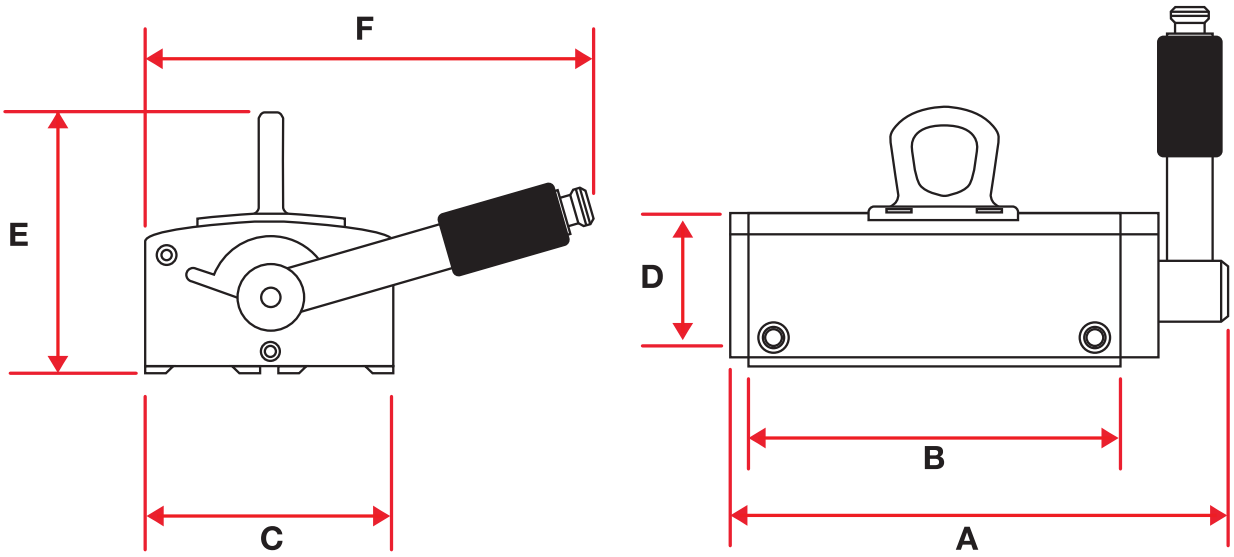

Product Number	Dimensions (mm) A	B	C	D	E	F	Self Weight (kg)	Varying Thicknesses 5mm WLL* (Kg)	5mm Length max. (mm)	6mm WLL* (Kg)	6mm Length max. (mm)	8mm WLL* (Kg)	8mm Length max. (mm)	10mm WLL* (Kg)	10mm Length max. (mm)
TP150	202	150	100	74	126	181	8	75	1500	100	1500	150	1500	200	1500
TP300	352	300	100	74	126	181	15	150	2000	200	2000	300	2000	400	2000

* 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 thickness's 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.

Other products available

Ultralift E

Ultralift Plus

Optimag E

Optimag P