Datasheet
UltraLift Plus +

ECLIPSE MAGNETICS LIFTING

Lifting Range

At A Glance

- SAFEST LIFT - cannot switch off in hold
- 3:1 WLL (SWL) Safety Factor for Lifting
- Safety Shim for a Pre-Test to ensure 3:1
- Lifts up to 1000kg (2200lb) Flat Plate
- Lifts up to 400kg (880lb) Round Bar

Our UltraLift Plus (UltraLift +) lifter range ensure you have the SAFEST LIFT possible. When holding a load off the ground it will not let you turn off the lifter until the load is no longer being lifted.

The performance of any Magnetic Lifter 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 Plus has a Patented 'Safety Shim' to allow Pre-Testing the Load to be lifted irrespective of the weight, material, thickness and surface condition of the Load. Put the Safety Shim between the Lifter and the Load and attempt a very small lift - if the part is held securely with the Safety-Shim in between you have a 3:1 Safety Lift - you can then put the Load back down, remove the Safety Shim and then perform the Full Lift (without the Safety Shim) in the knowledge that the lift will be Safe. For an even Safer Lift, the UltraLift Plus has a Locking Eye Mechanism that Locks the Handle in the 'ON' position for as long as the UltraLift Plus is lifting - this prevents accidental attempted release of the Load when it is still off the ground. You can only turn the UltraLift Plus lifter to 'OFF' when it is not lifting a load - lifting safety is designed in.

The UltraLift Plus range WLL/SWL for ferrous plates varies from up to 125kg (275lb) for the UL0125+ rising to up to 1000kg (2200lb) for the UL1000+ (the UltraLift Plus range starts with minimum 20mm plate thickness). These figures are based on lifting high quality mild steel of thicknesses at least that of the minimum stated plate thickness for each version with no air gap in the way. Lifting performance varies depending on the application. Performance varies with air gap, steel shape (steel thickness and/or diameter), steel type (permeability), surface finish and temperature. Thinner and wider materials may bend/flex risking peel and lift failure - use spreader beams for wider loads and for loads that bend/flex. The performance downrates when lifting round bar (also varies with diameter) - WLL/SWL is up to 50kg (110lb) for the UL0125+ rising to up to 400kg (880lb) for the UL1000+. Maintain Health & Safety at all times - perform the Safety Shim lift first. Lift loads vertically with load not unbalanced, avoiding any sudden movements. 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

- SAFEST LIFT - Locking Eye Mechanism prevents lifter turn-off when in lift
- 3:1 Safety Factor design
- Safety Shim to pre-test lift to ensure 3:1 safety is met before making full lift
- Locking switch handle safety mechanism
- Lifts Ferrous Plate and Round Bar

Materials

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

Performance

Magnetic Performance	Up to 1000kg (2200lb) WLL (SWL) - 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 LM (for plate and round bar lifting and 90 degree lifting)
- UltraLift E (for plate and round bar lifting)
- UltraLift TP (for thin plate lifting)

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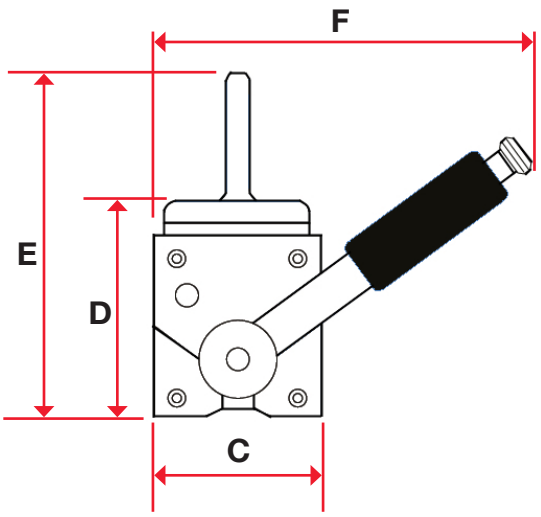

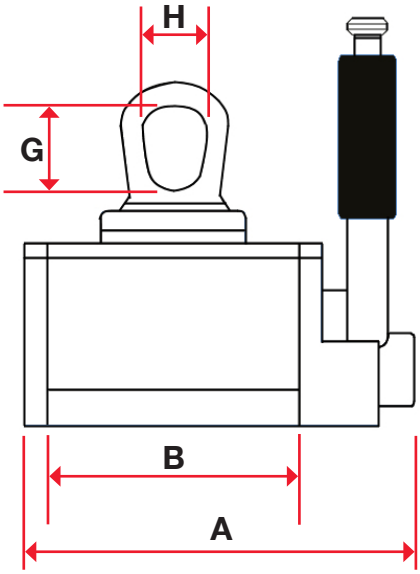

Product Number	Dimensions (mm) A	B	C	D	E	F	G	H	Self Weight (kg)	Flat Plate/ Section WLL / SWL* (kg)	Flat Plate/Section Minimum Thickness (mm)	Maximum Material Length (mm)	Round Bar WLL / SWL* (kg)	Round Bar Maximum Diameter (mm)	Units per Pack
UL0125+	155	101	69	74	138	152	34	27	4	125	20	1500	50	200	1
UL0250+	214	155	92	96	192	218	51	40	11	250	25	1500	100	300	1
UL0500+	300	224	122	128	251	266	63	49	27	500	30	2000	200	400	1
UL1000+	359	260	176	174	314	382	71	55	63	1000	45	3000	400	450	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 thick 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. Please note that the diameter of the round bar can affect the amount of lift that can be achieved. 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. The UltraLift range has a Safety Shim to allow a 3:1 pre-test to be performed as a small lift by placing the shim between the lifter and the load and performing a check to see if that small lift can be performed safely at 3:1 and, if it is safe, to then perform the actual lift without the Safety Shim present - this is an extra Safety Check aiding the user is ensuring a 3:1 Safety Factor in the actual 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

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