

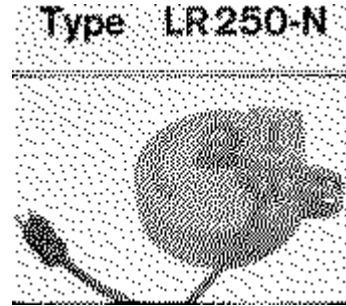
Circular Lifting Magnets Type : LR 250 - N

TECHNICAL DATA

TYPE LR250-N

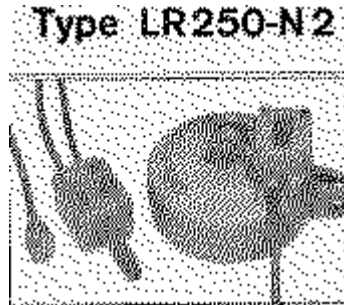
The type LR 250-N is supplied with built-in rectifier and switch and the unit is supplied ready for connection to AC supply with approx. meters long rubber cable and safety plug.

The magnet body is a dynamo steel casting of high permeability. The exciter coil is wound of copper wire and cast into the casting with impregnating and sealing compound of good heat conductivity. Two pairs of suspension lugs, one of the top, the other at the side permit suspension of the magnet with pole face located either horizontally or vertically.



An integrally cast terminal box at the top encloses the cable terminals, rectifier set in single phase bridge connection and switch.

TYPE LR 250-N2



The type LR 250-N2 has the same dimensions and technical specification but is supplied with separate control unit. The coils are however designed for use with the control unit of Type SLV only.

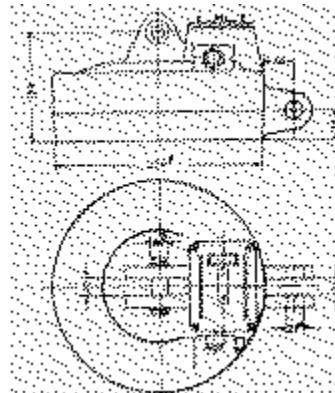
Power Input : Approx. 133 W.

Operating Voltage : 220 V, Single phase A. C.

Permissible duty cycle : Approx. 32 Kg.

Max. tear-off force : Approx. 2500 Kg.

DIMENSIONS

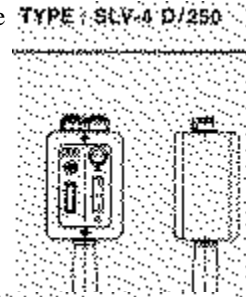


SEPARATE CONTROL UNIT

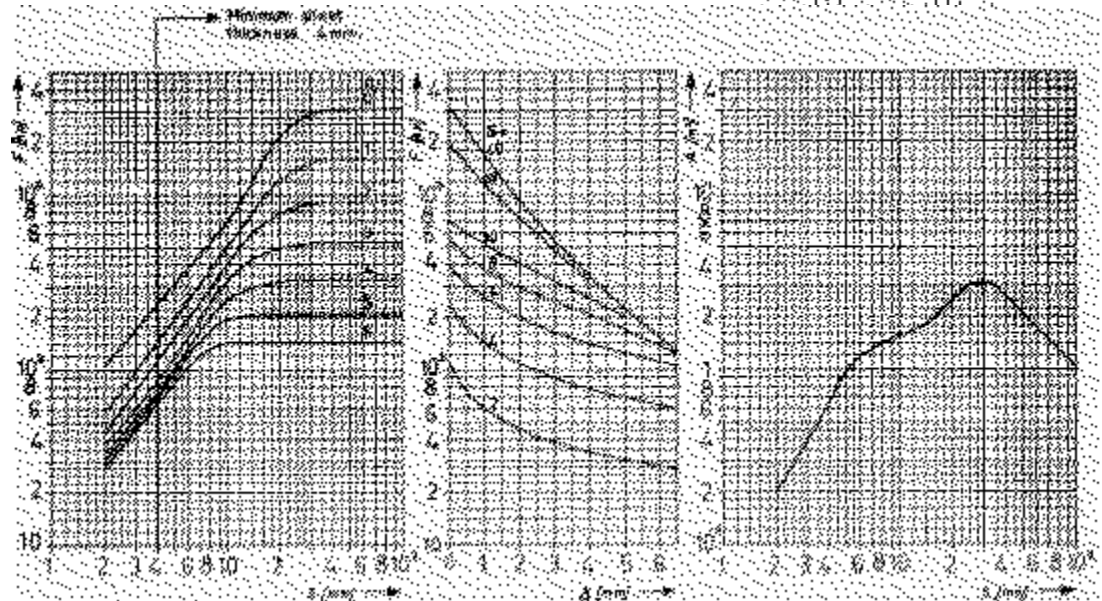
TYPE : SLV-4 D/250

The control unit is designed with a rectifier set in single phase bridge connection, switch, pilot lamp, fine wire fuse and interruptor (UT).

This control unit is suitable for one to four magnets and all magnets connected to one control unit are switched ON and OFF in common.



DIAGRAMS OF TEAR-OFF FORCE



Tear-off force is the maximum force of the magnet. It depends on the thickness of the material to be handled and the air gap between magnet and load, i.e. on the shape and condition of the surface which the magnet contacts. Tear-off force as a function of thickness "s" of the load. Each curve applies to the air gap in mm between load and magnet as indicated. It is assumed that pole face is fully covered. Tear-off force as a function of the air gap . Each curve applies to the indicated wall thickness "s" of the load.

DIAGRAM ON THE RIGHT

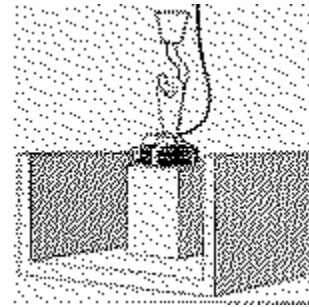
A (m²) = max. area of sheet which can be lifted by one magnet as a function of sheet thickness "s" considering the deflection at a minimum safety factor of 2 and air gap 1 mm. (Measuring at 50 % duty cycle) The tear-off force of a magnet can be read off the above graphs for any particular job. Material properties must be taken into account as well as magnet contact area, wall thickness at the contact point and air gap between poles and load. The diagrams are based with the appropriate friction coefficient.

In the interest of safety, it is advisable to utilise only half the effectively available tear-off force.

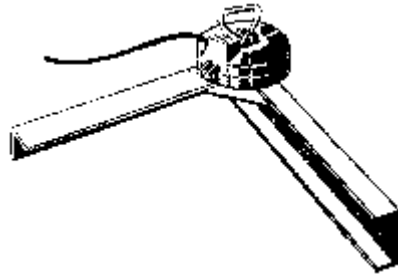
EFFICIENT LOAD HANDLING

Particularly for heavy, solid objects which are difficult to seize by other means.

Its max. tear-off force (pole face horizontally) of over 2500 Kg. contrasts strikingly with the magnet weight of only about 32Kg.



CLAMPING DEVICE FOR WELDING



A very useful aid for setting up and spot-welding steel sections or aligning and holding down sheets for butt welding.

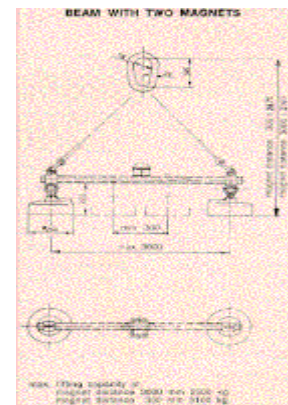
Type LR 250-n permits easy and most efficient working, since making use of the most up-to-date components-magnets switch and rectifier are all assembled into one unit.

BEAM WITH TWO MAGNETS

The magnet centre distance can be adjusted from max. 3000 mm to 300 mm by means of clamping devices and regulating screws.

A standard suspension is provided. The results in increased suspension heights in the event of smaller magnet distances.

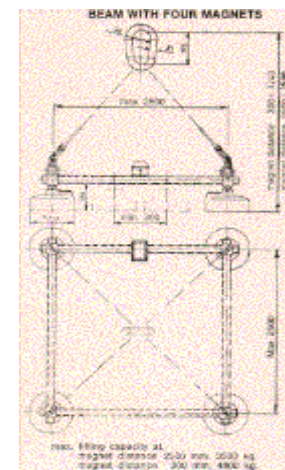
Beams with other magnet distances and suspensions on request.
Max. lifting capacity at 3000 mm magnet distance : 2500 Kg.
weight of the beam (without magnets) : 28 Kg approx.



BEAM WITH FOUR MAGNETS

The magnet centre distance can be adjusted from max. 2500 mm to min. 300 mm by means of clamping devices and regulating screws.

A standard suspension is provided. This result in increased suspension heights in the event of smaller magnet distance.
Beams with other magnet distances and suspensions on request.
max. lifting capacity at 2500 mm magnet distance : 3500 Kg.
weight of the beam (without magnets) : 74 Kg.



Note : The design and dimensions are subject to alterations without prior notice due to constant development for better performance.