



LIFTON[®]
MAGNETS

LIFTON MAGNETS PTE LTD

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REG NO. : 200202955G / CR NO : 72955020000D / FACTORY REG NO : F45721K-001

LIFTING MAGNET SELECTION

PUBLIC DOMAIN INFORMATION

QUICKTIPS



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QUICK TIPS ON MAGNETIC LIFTER SELECTION

Permanent Magnetic Lifter

Advantages

- Manually Switched On-Off
- No Electricity required, 100% safe for handling
- Low maintenance

Disadvantages

- Can be made upto 6000 Kgs Safe Capacity only
- Operator to manually switch ON the magnet
- Not suitable for thin sections of 5 to 10mm

Electro Magnetic Lifter

Advantages

- Remotely Switched On-Off
- Can be made in any size, dimension and capacity
- Can work with high Air Gaps & Only magnet suitable for Scrap Handling

Disadvantages

- Continuous uninterrupted supply of Electricity required to Keep Magnet On
- Load drops if Electrical power or Electrical Controller component fails
- Magnet gets heated due to continuous running - needs rest to cool down if continuously used for a certain period. Magnets spoil quite often due to coil burnout for usage beyond the rated duty cycle.
- Battery Back up support available against power failure, but have no protection if the battery fails or the cable cuts etc.
- No Protection against winding coil failure

Electro Permanent Magnetic Lifter

Advantages

- Remote Switched On-Off
- Electricity Pulse (for 2 Seconds) required only to Switch the Magnet ON or OFF. Does not require electrical supply during the actual operation.
- Can be made in any size, dimension and capacity



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Disadvantages

- No disadvantages except these cannot work with high Air Gaps, excessive high temperatures, multiple plate sections at a time & Scrap Handling.

CONFIGURATION GUIDELINES

1. While the surface condition i.e the area of contact is very important, in general, a smooth flat surface as supplied by Major Steel Plants is good enough. The magnet should always be used in equilibrium as far as possible.
2. If the thickness is less, the magnetic induction in steel is less and so the lifting capacity is reduced.
3. The overhanging of the plate from the Magnet should not be more than 1000 mm, in any case provided the plate is more than 25 mm thick and it does not bend / bulge when lifted by the Magnet.
4. If the thickness is less and the length is more than 2000 mm, then instead of a single high capacity magnet, more than one magnet of lower capacity is used making sure that the overhanging on width is not more than 800 mm and length 1000 mm. For Eg. if you have to lift a plate of say 3000 x 1500 x 10 mm thick, you need to hang 2 Sets of magnets from a common spreader beam of 1500 mm long.
5. For handling plates of various sizes, larger fixed or telescopic spreader beams with spring enabled dampers are used.