

USER MANUAL
LIFTING MAGNET



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Lifting magnets are manually operated lifting tools based on permanent magnetism. By converting the direction of the handle , the magnetic field will be turned and targeted on the load which need to be lifted.

CONDITIONS FOR LIFTING CAPACITY:

- The product consists of ferromagnetic or ferruginous material.
- The application temperature is +80°C until -40°C.
- There are no strong vibrations and / or shocks.

SAFETY INSTRUCTIONS:

- Before you start using the lifting magnet you must be sure that the lifting magnet in unloaded state is in good condition and that it is not damaged or missing any parts.
- Never take the load above any persons and make sure there is enough space between the surrounding bystanders.
- Lift steady with controlled movements without any shocks.
- Make sure the load is stable and in balance when you start loading.
- Place the magnet stable without any risks on sliding, rolling or turning.
- Make sure you can read the diagram well on the magnet.
- By transport of a lifting magnet falling of high heights must be prevented.
- Storage must be in a clean and dry place.
- Never go above the lifting capacity of the lifting magnet.
- Repair or any other changes to the lifting magnet is not allowed.

OPERATING INSTRUCTIONS:

The composition of the material is of influence on the lifting capacity.

For alloyed steel a reduced lifting capacity apply:

- | | |
|----------------------------------|---------------|
| - Soft steel | workload 100% |
| - Alloyed steel | workload 80% |
| - Steel with high carbon content | workload 70% |
| - Cast iron | workload 45% |

By low plate- or wall thickness the lifting capacity will reduce. You can read this on the diagram of the magnet.

Round objects can also be lifted with a lifting magnet. Hereby the workload is reduced to 1/3 of the maximum lifting forces.

WARNING: a work peace which can band, can lose or reduce the contact with the lifting magnet!

The flatness of the touch surface affects the lifting capacity as follows:

- | | |
|---------------------------|---------------|
| - Cut, flattened surface | workload 100% |
| - Rough, edited manually | workload 100% |
| - Finished steel castings | workload 90% |
| - Rough steel castings | workload 65% |

By roughness of the material an air gap can arise. This air gap must be considered critically because this has a big influence on the lifting force. For the calculation, the user must read, understand and apply the diagram on the magnet.



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USE :

- *Place the magnet on a carefully cleaned flat surface of the work piece. Choose the place that is directly above the center of gravity. Tilt or turning should one perform with great care on a stable surface, without risc of falling, prior to the lifting movement is initiated.*
- *Turn the handle in the direction of the locking system. Make sure that the locking system, after passing of the handle, is completely slid back in rest position.*
- *Lift with steady, even strokes and prevent shocks.*

INSPECTION- AND TESTING PERIOD:

Lifting magnets must be inspected and tested every year by an expert body.