

Permanent lifting magnet

ELM

Serial number:

Date of purchase:

This manual is for ELM types: ELM.125, ELM.250, ELM.500, ELM.1000 and ELM.2000

Congratulations on purchasing this premium permanent lifting magnet. At Euroboor we strive to exceed our customers' expectations by developing and providing premium and innovative portable drilling, cutting and lifting solutions. We believe that a professional like you must be able to rely on a professional supplier. Which has led us to become a major player in the industrial world, with our own factory and several offices worldwide. All because we have always listened to our customers and to the demands from the market.

Our vision is focused on developing innovative portable tools that add value for our customers and facilitate them in their daily work. We never lose sight of sustainability, time savings and cost savings.

Enjoy your new lifting magnet!

Before operating your new permanent lifting magnet, please first read all instructions. You find the instructions in this manual and on the warning label on your lifting magnet. With proper use, care and maintenance your lifting magnet will provide you with years of premium performance.

TO REDUCE THE RISK OF INJURY USER MUST READ AND UNDERSTAND ALL INSTRUCTIONS

To view all our offices and their contact information please visit: www.euroboor.com

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1. Safety

1.1 General safety instructions

Do not use this lifting magnet before you have thoroughly read and completely understood this manual, specifically the “General safety instructions” including the figures, specifications, safety regulations and the signs indicating DANGER, WARNING and CAUTION. Please also observe the relevant national industrial safety regulations. Non-observance of the safety instructions can lead to severe injuries.

This manual should be kept for later use and enclosed with the lifting magnet, should it be passed on or sold.

Work area

1. Keep your work area clean and well lit. Cluttered and dark work areas increase the chance of accidents.
2. Keep bystanders, children and visitors away while using a lifting magnet. Distractions can cause you to lose control.
3. Never stand or walk underneath the hoisting load.
4. Guide the load by holding the corners, make sure to keep the load away from your body.
5. Never transport your workpiece with the lifting magnet over or past people.
6. Never use the lifting magnet for transporting or lifting people.
7. Always warn people who are around your working area when you start your lifting job.
8. Never leave a hoisted lifting magnet unattended.

Personal safety

1. Stay alert, watch what you are doing and use common sense when using a lifting magnet. Do not use the lifting magnet while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating a lifting magnet may result in serious personal injury.
2. Dress properly. Do not wear magnetizable clothing or jewelry.
3. Use safety equipment. Always wear non-skid safety shoes and a hard hat for optimal safety.
4. Users of the lifting magnet who have a pacemaker or other medical equipment should never use the lifting magnet without first consulting a medical specialist.

1.2 Delivery

The complete delivery of your Euroboor lifting magnet consists of:

- Euroboor lifting magnet
- User manual
- Test certificate

Note: Always check your lifting magnet on delivery. If the lifting magnet is damaged or incomplete immediately contact your supplier or Euroboor.

1.3 Warranty and service

Warranty

Euroboor B.V. warrants this lifting magnet to be free of material defects and workmanship errors under normal use for a period of 12 months after date of purchase.

This 12 month period can be extended to 24 months in total by registering the product on our website: <https://euroboor.com/support/register/>.

This warranty expires when:

- The operating and maintenance instructions as stated in this manual have not been followed
- The use of the lifting magnet is considered as being other than normal
- Natural wear and tear cause by use in accordance with operating instructions
- Repairs or replacements are not in accordance to and done by specifications by Euroboor or any authorized Euroboor dealer.

Service

To maximize the lifetime of your Euroboor lifting magnet always use service and parts from an official Euroboor distribution channel. Whenever in need of such, always contact original point of sales or if no longer existent the distributor of Euroboor products in your country.

2. Construction and specifications

2.1 Construction

All Euroboor lifting magnets (ELM) have been produced with NdFeB magnetic materials. To switch the magnet on and off, you turn the handle which can be found on the side of the lifting magnet. On top of the lifting magnets you find shackles for lifting and the bottom of the lifting magnets are equipped with a V slot for lifting cylindrical workpieces.

Never use the handle to switch the magnet on without using an hoisting load.

On the top of the lifting magnet you also find a small slider, which pulls in and pushes out the safety bolt. This safety bolt ensures that the handle stays in to "on" position while you are working on your lifting job.

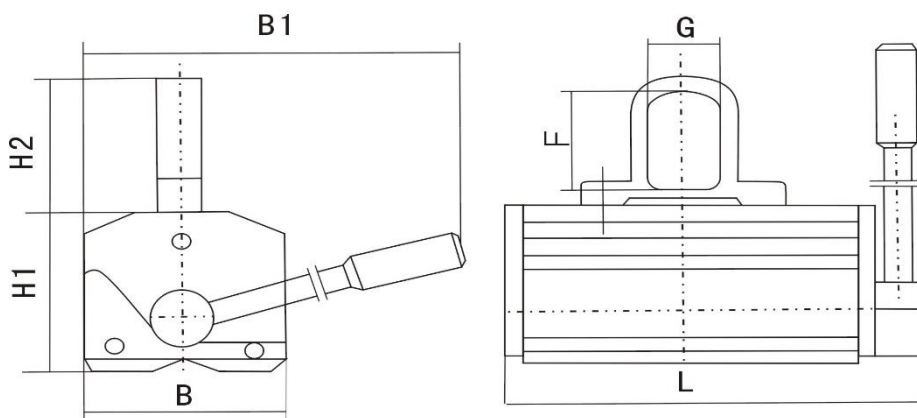
2.2 Specifications

Metric

| ELM types | Rated lifting strength | L | B | H1 | H2 | B1 | F | G | Dead weight |
|-----------|------------------------|-----|-----|-----|-----|-----|----|----|-------------|
| | kg | mm | mm | mm | mm | mm | mm | mm | Kg |
| ELM.125 | 125 | 175 | 76 | 77 | 57 | 170 | 35 | 30 | 6.5 |
| ELM.250 | 250 | 213 | 82 | 83 | 77 | 215 | 56 | 40 | 9.4 |
| ELM.500 | 500 | 288 | 112 | 108 | 87 | 340 | 57 | 42 | 21.2 |
| ELM.1000 | 1000 | 336 | 148 | 138 | 96 | 388 | 59 | 52 | 43 |
| ELM.2000 | 2000 | 559 | 154 | 195 | 100 | 471 | 63 | 52 | 95.2 |

Imperial

| ELM types | Rated lifting strength | L | B | H1 | H2 | B1 | F | G | Dead weight |
|-----------|------------------------|----------|---------|---------|---------|----------|---------|---------|-------------|
| | lbs | inch | inch | inch | inch | inch | inch | inch | Lbs |
| ELM.125 | 250 | 6 7/8 | 3 | 3 | 2 1/4 | 6 11/16 | 1 3/8 | 1 3/16 | 14.3 |
| ELM.250 | 500 | 8 3/8 | 3 7/32 | 3 1/4 | 3 1/32 | 8 15/32 | 2 3/16 | 1 9/16 | 20.7 |
| ELM.500 | 1000 | 11 13/32 | 4 13/32 | 4 1/4 | 3 7/16 | 13 3/8 | 2 1/4 | 1 21/32 | 48.5 |
| ELM.1000 | 2000 | 13 7/32 | 5 27/32 | 5 13/32 | 3 25/32 | 15 9/32 | 2 5/16 | 2 1/16 | 94.8 |
| ELM.2000 | 4000 | 22 | 6 3/8 | 6 1/16 | 3 15/16 | 18 17/32 | 2 15/32 | 2 1/16 | 209.9 |



Warning: Always ensure that the weight and dimensions of the workpiece do not exceed the maximum permitted values.

Metric

| Model | Load Plate Max | Load round Max | Plate Min Thickness | Round Min-max thickness | Work max. length | Operation temperature |
|----------|----------------|----------------|---------------------|-------------------------|------------------|-----------------------|
| | kg | kg | mm | mm | mm | °C |
| ELM.125 | 125 | 60 | 15 | Ø 40 - Ø 80 | 2000 | <80 |
| ELM.250 | 250 | 125 | 25 | Ø 50 - Ø 100 | 2500 | <80 |
| ELM.500 | 500 | 250 | 30 | Ø 100 - Ø 250 | 3000 | <80 |
| ELM.1000 | 1000 | 500 | 40 | Ø 150 - Ø 380 | 3500 | <80 |
| ELM.2000 | 2000 | 1000 | 55 | Ø 180 - Ø 450 | 4000 | <80 |

Imperial

| Model | Load Plate Max | Load round Max | Plate Min Thickness | Round Min-max thickness | Work max. length | Operation temperature |
|----------|----------------|----------------|---------------------|-------------------------|------------------|-----------------------|
| | lbs | lbs | inch | inch | inch | °F |
| ELM.125 | 250 | 120 | 19/32 | Ø 1 37/64 - Ø 3 5/32 | 78 47/64 | <176 |
| ELM.250 | 500 | 250 | 63/64 | Ø 1 31/32 - Ø 3 15/16 | 98 27/64 | <176 |
| ELM.500 | 1000 | 500 | 1 3/16 | Ø 3 15/16 - Ø 9 27/32 | 118 7/16 | <176 |
| ELM.1000 | 2000 | 1000 | 1 37/64 | Ø 5 29/32 - Ø 14 61/64 | 137 51/64 | <176 |
| ELM.2000 | 4000 | 2000 | 2 11/64 | Ø 7 3/32 - Ø 17 23/32 | 157 31/64 | <176 |

3. Operation

3.1 Prior to use

Check the lifting magnet for possible damage; Before using the lifting magnet, you must carefully check the protective components or slightly damaged components to ensure they are operating perfectly and as intended.

Damaged protective components must be repaired or replaced according to specifications by Euroboor or any authorized Euroboor dealer.

DO NOT let children come into contact with the lifting magnet. Supervision is required when inexperienced operators use this lifting magnet.

1. During operation always make sure the surface on which you are going to attach the lifting magnet is clear of any rust, burr and debris. This ensures that the lifting magnet has an optimized lifting capacity.
2. Pull the slider on top of the magnet to the middle of the magnet, so that the safety bolt is pulled in.
3. Then switch the handle in the "on" position.
4. Release the slider; this will push out the safety bolt and it will lock the handle.
5. Start your lifting job.



Warning: Overloading is forbidden. Never let anybody walk underneath the workpiece you are lifting.



Warning: Never place the magnet over a large hole or bore.

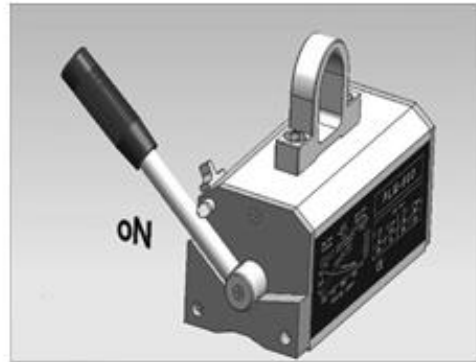
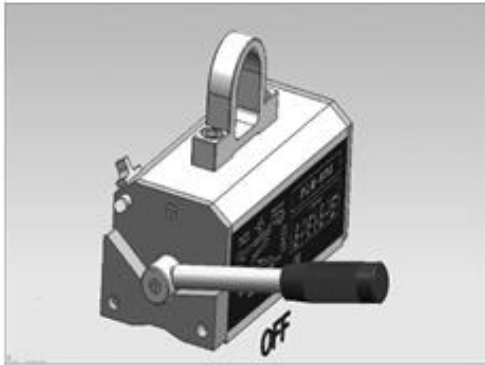


Warning: Never release the handle before the slider has locked it in position

Always make sure that the temperature of the components as well the ambient temperature is between 80°C to -40°C. Minimize vibrations and avoid impact and collisions.

Note: When you are lifting cylindrical workpieces always make sure the cylindrical workpiece contacts both V slots of the lifting magnet. The actual lifting capacity will generally be 30% of the rated lifting capacity (see chapter 4.2).

1. When you have finished your lifting job and want to turn off the magnet simply pull the slider on top of the magnet to the middle of the magnet, so that the safety bolt is pulled in and switch the handle to the off position.
2. Release the slider.
3. The lifting magnet is now in neutral condition and can be taken from the workpiece



- Only switch the magnet to the “On” position when you have placed it correctly on the workpiece.
- Only switch the magnet to the “Off” position when you have placed the workpiece on a stable surface.
- **Never** lift more than one workpiece at a time.
- **Never** lift more than the capacity of the lifting magnet you are using.
- The magnet must remain fully horizontal during transport of the workpiece.

Note: After having finished your lifting job, light workpieces and other small magnetizable material might stick to the magnet after it has been switched off.

3.2 Main factors which influence the lifting capacity

Before you start your lifting job always check the safety by looking at the thickness of the workpiece, the quality of the workpiece and the composition of the steel component.

In the below instructions and matrices you can calculate the save capacity of the lifting magnet.

- Thickness of the workpiece
In general when the thickness of the workpiece (S) is increasing the lifting capacity is also increasing. The lifting capacity of the magnet will never exceed the maximum lifting capacity of the magnet
- Quality of the workpiece.
You have to calculate the surface roughness (Ra) of your workpiece. If the surface roughness is less than 6.3 um, there will be no negative impact of the lifting capacity of the magnet based on the airgap (▲). If the surface roughness is above 6.3. um you need to calculate the airgap. The airgap will negatively influence the lifting capacity of the magnet. You can find a detailed overview in below matrices.
- The composition of the steel component.
Various materials have influence on the maximum capacity of the magnet. The in the below mentioned matrices lifting capacity of the magnet based on the thickness of the workpiece (S), airgap (▲) and shape of the workpiece must be multiplied by the percentage related to the composition of the workpiece. You can find the material related percentage in matrix 3.2.1

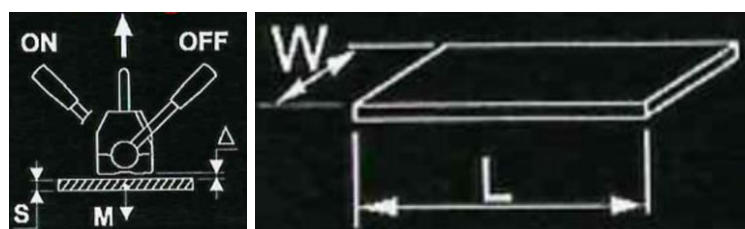
| Workload limit for various materials (Matrix 3.2.1) | |
|---|----------------|
| Material | Percentage (%) |
| St 37 (S 235 JR) | 100% |
| E 295 (St 52) | 96% |
| Cast steel | 90% |
| Stainless steel 430 F | 50% |
| Cast iron | 45% |
| Nickel | 10% |

3.3 Calculation example

Below you find an example how to calculate the lifting capacity of your magnet. Calculations should always be done with the actual figures related to the workpiece.

| Lifting Magnet | ELM.125 |
|------------------------------------|------------------|
| Maximum capacity | 125 kg / 250 lbs |
| The thickness of the workpiece (S) | 10 mm |
| Airgap (▲) | 0.2 mm |
| Material | Cast steel |

| Max capacity | Thickness based capacity | Airgap based capacity | Material influence | Actual maximum capacity |
|--------------|--------------------------|-----------------------|--------------------|----------------------------|
| 125kg | 85kg | 65kg | 90% | 65kg x 90% = 58,5kg |



3.4 ELM.125 Lifting capacity overview

| | ▲ <0.1 mm | | | ▲ = 0.1 - 0.3 mm | | | ▲ = 0.3 - 0.5 mm | | |
|--------------|-----------|---------|--------|------------------|---------|-------|------------------|--------|-------|
| | L max | W max | M max | L max | W max | M max | L max | W max | M max |
| S ≥ 15 mm | 1500mm | 1000 mm | 125 kg | 1500 mm | 1000 mm | 90kg | 1200 mm | 800 mm | 65 kg |
| S = 10 mm | 1200mm | 800 mm | 85 kg | 1200 mm | 800 mm | 65 kg | 1000 mm | 500 mm | 45 kg |
| S = 5 mm | 1000mm | 500 mm | 50 kg | 1000 mm | 500 mm | 40 kg | 800 mm | 500 mm | 25 kg |
| Ø40 - Ø80 mm | 2000 mm | - | 60 kg | 1850 mm | - | 50 kg | 1700 mm | - | 30 kg |

| | ▲ <0.0039 inch | | | ▲ = 0.0039 - 0.012 inch | | | ▲ = 0.012 -0.0197 inch | | |
|---------------------------------|------------------|------------------|---------|-------------------------|------------------|---------|------------------------|------------------|---------|
| | L max | W max | M max | L max | W max | M max | L max | W max | M max |
| S ≥ 19/32 inch | 59-1/16 inch | 39-3/8 inch | 250 lbs | 59-1/16 inch | 39-3/8 inch | 180 lbs | 47-1/4 inch | 31-1/2 inch | 130 lbs |
| S = 25/64 inch | 47-1/4 inch | 31-1/2 inch | 170 lbs | 47-1/4 inch | 31-1/2 inch | 130 lbs | 39-3/8 inch | 19-11/16 inch | 90 lbs |
| S = 13/64 inch | 39-3/8 inch | 19-11/16 inch | 100 lbs | 39-3/8 inch | 19-11/16 inch | 80 lbs | 31-1/2 inch | 19-11/16 inch | 50 lbs |
| Ø 1-37/64 inch - 3-5/32 inch | 78-47/64 inch | - | 120 lbs | 72-53/64 inch | - | 100 lbs | 66-59/64 inch | - | 60 lbs |

3.5 ELM.250 Lifting capacity overview

| | ▲ <0.1 mm | | | ▲ = 0.1 - 0.3 mm | | | ▲ = 0.3 - 0.5 mm | | |
|---------------|-----------|---------|--------|------------------|---------|--------|------------------|---------|--------|
| | L max | W max | M max | L max | W max | M max | L max | W max | M max |
| S ≥ 25 mm | 2000 mm | 1500 mm | 250 kg | 2000 mm | 1500 mm | 190 kg | 1500 mm | 1000 mm | 120 kg |
| S = 15 mm | 2000 mm | 1200 mm | 200 kg | 2000 mm | 1200 mm | 150 kg | 1500 mm | 1000 mm | 100 kg |
| S = 10 mm | 1500 mm | 1200 mm | 180 kg | 1500 mm | 1000 mm | 135 kg | 1100 mm | 1000 mm | 85 kg |
| S = 8 mm | 1500 mm | 1000 mm | 120 kg | 1500 mm | 1000 mm | 95 kg | 1100 mm | 800 mm | 65 kg |
| S = 6 mm | 1200 mm | 800 mm | 70 kg | 1000 mm | 800 mm | 55 kg | 900 mm | 800 mm | 35 kg |
| ∅50 - ∅100 mm | 2500 mm | - | 125 kg | 2500 mm | - | 95 kg | 2000 mm | - | 60 kg |

| | ▲ <0.0039 inch | | | ▲ = 0.0039 - 0.012 inch | | | ▲ = 0.012 - 0.0197 inch | | |
|----------------------------------|----------------|--------------|---------|-------------------------|--------------|---------|-------------------------|-------------|---------|
| | L max | W max | M max | L max | W max | M max | L max | W max | M max |
| S ≥ 63/64 inch | 78-47/64 inch | 59-1/16 inch | 500 lbs | 78-47/64 inch | 59-1/16 inch | 380 lbs | 59-1/16 inch | 39-3/8 inch | 240 lbs |
| S = 19/32 inch | 78-47/64 inch | 47-1/4 inch | 400 lbs | 78-47/64 inch | 47-1/4 inch | 300 lbs | 59-1/16 inch | 39-3/8 inch | 200 lbs |
| S = 25/64 inch | 59-1/16 inch | 47-1/4 inch | 360 lbs | 59-1/16 inch | 39-3/8 inch | 270 lbs | 43-5/16 inch | 39-3/8 inch | 170 lbs |
| S = 5/16 inch | 59-1/16 inch | 39-3/8 inch | 240 lbs | 59-1/16 inch | 39-3/8 inch | 190 lbs | 43-5/16 inch | 31-1/2 inch | 130 lbs |
| S = 15/64 inch | 47-1/4 inch | 31-1/2 inch | 140 lbs | 39-3/8 inch | 31-1/2 inch | 110 lbs | 35-7/16 inch | 31-1/2 inch | 70 lbs |
| ∅ 1-31/32 inch - 3-15/16 inch | 98-27/64 inch | - | 250 lbs | 98-27/64 inch | - | 190 lbs | 78-47/64 inch | - | 120 lbs |

3.6 ELM.500 Lifting capacity overview

| | ▲ <0.1 mm | | | ▲ = 0.1 - 0.3 mm | | | ▲ = 0.3 - 0.5 mm | | |
|--------------|-----------|---------|--------|------------------|---------|--------|------------------|---------|--------|
| | L max | W max | M max | L max | W max | M max | L max | W max | M max |
| S ≥ 30 mm | 3000 mm | 1500 mm | 500 kg | 3000 mm | 1500 mm | 380 kg | 2500 mm | 1500 mm | 260 kg |
| S = 20 mm | 2500 mm | 1500 mm | 380 kg | 2500 mm | 1500 mm | 280 kg | 2000 mm | 1500 mm | 190 kg |
| S = 15 mm | 2000 mm | 1500 mm | 300 kg | 2000 mm | 1500 mm | 220 kg | 1800 mm | 1500 mm | 150 kg |
| S = 10 mm | 1500 mm | 1500 mm | 220 kg | 1500 mm | 1500 mm | 170 kg | 1200 mm | 1000 mm | 110 kg |
| Ø100-Ø250 mm | 3000 mm | - | 250 kg | 3000 mm | - | 200 kg | 2500 mm | - | 150 kg |

| | ▲ <0.0039 inch | | | ▲ = 0.0039 - 0.012 inch | | | ▲ = 0.012 -0.0197 inch | | |
|-------------------------------|----------------|--------------|----------|-------------------------|--------------|---------|------------------------|--------------|---------|
| | L max | W max | M max | L max | W max | M max | L max | W max | M max |
| S ≥ 1 3/16 inch | 118-7/16 inch | 59-1/16 inch | 1000 lbs | 118-7/16 inch | 59-1/16 inch | 760 lbs | 98-27/64 inch | 59-1/16 inch | 520 lbs |
| S = 25/32 inch | 98-27/64 inch | 59-1/16 inch | 760 lbs | 98-27/64 inch | 59-1/16 inch | 560 lbs | 78-47/64 inch | 59-1/16 inch | 380 lbs |
| S = 19/32 inch | 78-47/64 inch | 59-1/16 inch | 600 lbs | 78-47/64 inch | 59-1/16 inch | 440 lbs | 70-55/64 inch | 59-1/16 inch | 300 lbs |
| S = 25/64 inch | 59-1/16 inch | 59-1/16 inch | 440 lbs | 59-1/16 inch | 59-1/16 inch | 340 lbs | 47-1/4 inch | 39-3/8 inch | 220 lbs |
| Ø 3-15/16 inch - 9-27/32 inch | 118-7/16 inch | - | 500 lbs | 118-7/16 inch | - | 400 lbs | 98-27/64 inch | - | 300 lbs |

3.7 ELM.1000 Lifting capacity overview

| | ▲ <0.1 mm | | | ▲ = 0.1 - 0.3 mm | | | ▲ = 0.3 - 0.5 mm | | |
|--------------|-----------|---------|---------|------------------|---------|--------|------------------|---------|--------|
| | L max | W max | M max | L max | W max | M max | L max | W max | M max |
| S ≥ 40 mm | 3000 mm | 2000 mm | 1000 kg | 3000 mm | 2000 mm | 750 kg | 2500 mm | 1500 mm | 650 kg |
| S = 30 mm | 3000 mm | 2000 mm | 800 kg | 3000 mm | 2000 mm | 600 kg | 2500 mm | 1500 mm | 400 kg |
| S = 20 mm | 2500 mm | 1500 mm | 600 kg | 2500 mm | 1500 mm | 450 kg | 2000 mm | 1000 mm | 300 kg |
| S = 15 mm | 2500 mm | 1500 mm | 500 kg | 2500 mm | 1500 mm | 380 kg | 2000 mm | 1000 mm | 230 kg |
| S = 10 mm | 2000 mm | 1000 mm | 350 kg | 2000 mm | 1000 mm | 260 kg | 1500 mm | 1000 mm | 180 kg |
| Ø150-Ø380 mm | 3500 mm | - | 500 kg | 3000 mm | - | 380 kg | 2500 mm | - | 320 kg |

| | ▲ <0.0039 inch | | | ▲ = 0.0039 - 0.012 inch | | | ▲ = 0.012 -0.0197 inch | | |
|-----------------------------------|----------------|---------------|----------|-------------------------|---------------|----------|------------------------|--------------|----------|
| | L max | W max | M max | L max | W max | M max | L max | W max | M max |
| S ≥ 1 37/64 inch | 118-7/16 inch | 78-47/64 inch | 2000 lbs | 118-7/16 inch | 78-47/64 inch | 1500 lbs | 98-27/64 inch | 59-1/16 inch | 1300 lbs |
| S = 1 3/16 inch | 118-7/16 inch | 78-47/64 inch | 1600 lbs | 118-7/16 inch | 78-47/64 inch | 1200 lbs | 98-27/64 inch | 59-1/16 inch | 800 lbs |
| S = 25/32 inch | 98-27/64 inch | 59-1/16 inch | 1200 lbs | 98-27/64 inch | 59-1/16 inch | 900 lbs | 78-47/64 inch | 39-3/8 inch | 600 lbs |
| S = 19/32 inch | 98-27/64 inch | 59-1/16 inch | 1000 lbs | 98-27/64 inch | 59-1/16 inch | 760 lbs | 78-47/64 inch | 39-3/8 inch | 460 lbs |
| S = 25/64 inch | 78-47/64 inch | 39-3/8 inch | 700 lbs | 78-47/64 inch | 39-3/8 inch | 520 lbs | 59-1/16 inch | 39-3/8 inch | 360 lbs |
| Ø 5-29/32 Inch - 14-61/64 inch | 137-1/64 inch | - | 1000 lbs | 118-7/16 inch | - | 760 lbs | 98-27/64 inch | - | 640 lbs |

3.8 ELM.2000 Lifting capacity overview

| | ▲ <0.1 mm | | | ▲ = 0.1 - 0.3 mm | | | ▲ = 0.3 - 0.5 mm | | |
|--------------|-----------|---------|---------|------------------|---------|---------|------------------|---------|---------|
| | L max | W max | M max | L max | W max | M max | L max | W max | M max |
| S ≥ 55 mm | 3500 mm | 2000 mm | 2000 kg | 3500 mm | 1850 mm | 1500 kg | 3000 mm | 2000 mm | 1000 kg |
| S = 45 mm | 3500 mm | 2000 mm | 1800 kg | 3500 mm | 1850 mm | 1350 kg | 3000 mm | 2000 mm | 900 kg |
| S = 35 mm | 3000 mm | 2000 mm | 1500 kg | 3000 mm | 1800 mm | 1150 kg | 2500 mm | 1500 mm | 750 kg |
| S = 20 mm | 2500 mm | 1500 mm | 900 kg | 2500 mm | 1200 mm | 680 kg | 2000 mm | 1000 mm | 450 kg |
| S = 15 mm | 2500 mm | 1500 mm | 500 kg | 2500 mm | 1100 mm | 380 kg | 2000 mm | 1000 mm | 250 kg |
| Ø180-Ø450 mm | 4000 mm | - | 1000 kg | 3500 mm | - | 750 kg | 3000 mm | - | 600 kg |

| | ▲ <0.0039 inch | | | ▲ = 0.0039 - 0.012 inch | | | ▲ = 0.012 - 0.0197 inch | | |
|-------------------------------|----------------|---------------|----------|-------------------------|---------------|----------|-------------------------|---------------|----------|
| | L max | W max | M max | L max | W max | M max | L max | W max | M max |
| S ≥ 2 11/64 inch | 137-51/64 inch | 78-47/64 inch | 4000 lbs | 137-51/64 inch | 72-53/64 inch | 3000 lbs | 118-7/16 inch | 78-47/64 inch | 2000 lbs |
| S = 1 49/64 inch | 137-51/64 inch | 78-47/64 inch | 3600 lbs | 137-51/64 inch | 72-53/64 inch | 2700 lbs | 118-7/16 inch | 78-47/64 inch | 1800 lbs |
| S = 1 3/8 inch | 118-7/16 inch | 78-47/64 inch | 3000 lbs | 118-7/16 inch | 70-55/64 inch | 2300 lbs | 98-27/64 inch | 59-1/16 inch | 1500 lbs |
| S = 25/32 inch | 98-27/64 inch | 59-1/16 inch | 1800 lbs | 98-27/64 inch | 47-1/4 inch | 1360 lbs | 78-47/64 inch | 39-3/8 inch | 900 lbs |
| S = 19/32 inch | 98-27/64 inch | 59-1/16 inch | 1000 lbs | 98-27/64 inch | 43-5/16 inch | 760 lbs | 78-47/64 inch | 39-3/8 inch | 500 lbs |
| Ø 7-3/32 inch - 17-23/32 inch | 157-31/64 inch | - | 2000 lbs | 137-51/64 inch | - | 1500 lbs | 118-7/16 inch | - | 1200 lbs |

4. Maintenance and safety

While carrying and using the lifting magnet beware of bumping into objects in your work area and the roughness of the surfaces you are working on, as not to damage your lifting magnet and your surroundings.

After having used the lifting magnet and before storing it, you can use oil to protect the lifting magnet.



Warning : Please read this user manual carefully and thoroughly before using the lifting magnet.

- Always use a hook equipped with a safety latch to attach to your lifting magnet.
- Check the slider on top of your magnet and the safety bolt regularly. Make sure that slider can move flexibly and that the safety bolt locks firmly.
- When your lifting magnet is not in contact with ferromagnetic material then don't try to turn the handle (you will notice that this is also almost impossible to do).
- Maintenance of your lifting magnet but be done by strictly following the instructions and only by professionals.
- It is prohibited to modify the lifting magnet in any way as this may affect the safety.
- The lifting magnet has to undergo a capability test every year to check the safety of all the component to ensure safe use.
- Whenever the main body and/or turning parts are damaged beyond repair, the lifting magnet has to be discarded.
- Never remove warning or instruction plates from the lifting magnet

5. Environmental



Separate collection. This product must not be disposed of with normal household waste.



Separate collection of used products and packaging allows materials to be recycled and used again. Re-use of recycled materials helps prevent environmental pollution and reduces the demand for raw materials.

Local regulations may provide for separate collection of electrical products from the household, at municipal waste sites or by the retailer when you purchase a new product.