



**TECNOMAGNETE**

Permanent-electro magnetic systems

EN

**TECNOLIFT** line - Magnetic lifting systems



**MaxX<sup>®</sup>**

Hand controlled magnetic lifters

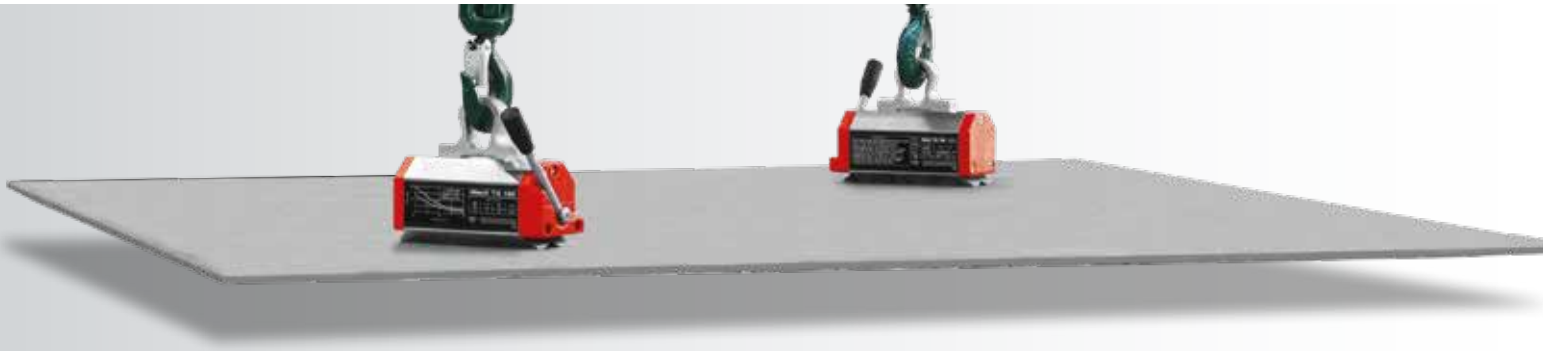
# MaxX<sup>®</sup>

## Safe and handy lifting

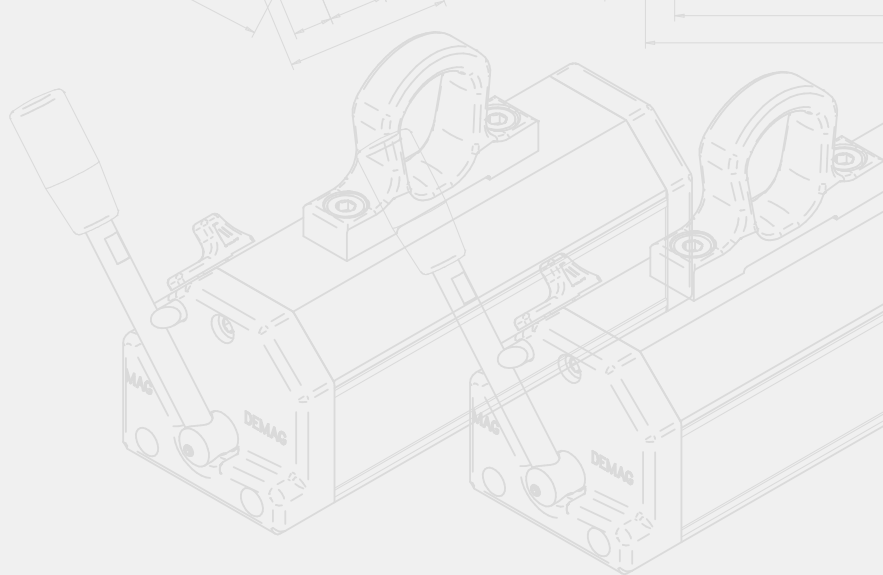


**MaxX** magnetic lifters are the ideal solution for handling any steel workpiece any steel workpiece whether rough or finished.

Their compact size and low weight maximize the crane capacity through a range of models with lifting capacities (WLL) from 125 kg to 2000 kg and specific versions for round surfaces and thin material.



## MaxX lifter for every need in manufacturing



The polar geometry is designed to fit loads of all kinds perfectly with both flat and round surfaces while minimizing operating air gaps.

The **TG** series maximizes the magnetic performance for lifting thin sheet metal and pipes.



# MaxX<sup>®</sup>

## A design of excellence and a perfect constructive realization



The monoblock structure of the **MaxX** lifter is machined with high-precision details to ensure maximum magnetic efficiency and operational reliability.

High-energy Neodymium permanent magnets are placed inside dedicated slots of the stator and inside the rotor core in order to be protected in case of shocks during use.

The magnetic rotor rotates inside the magnetic stator, always maintaining the same distance over time thanks to the precision machining, the use of bearings and a unique manufacturing process that involves the magnetization of the lifter once assembled.

The final nickel-coating treatment protects the product against oxidation and the wear and tear of time.

See 3D video



## The details make the difference

The **ball bearings** located at the ends of the MaxX are an integral part of the monoblock and ensure smooth rotation of the activation lever and reliability over time .

The **handle** - secure and ergonomic - is easy to grip even with working gloves to perform magnetization and demagnetization cycles.

The **hooking detail** is designed for the firm and secure coupling with the lifting hook.

The **safety catch** of the lever - simple but effective - ensures optimal operation even after years of work. Its position clearly shows the operator when the lever is placed in safety mode once the hoist is activated.

The **performance plates** located on both sides are laser engraved on aluminum supports for durability. They clearly indicate performance on flat and round surfaces under operating conditions as a function of the quality of the contact (air gap). Each lifter displays its own serial number, the month and year of manufacture.

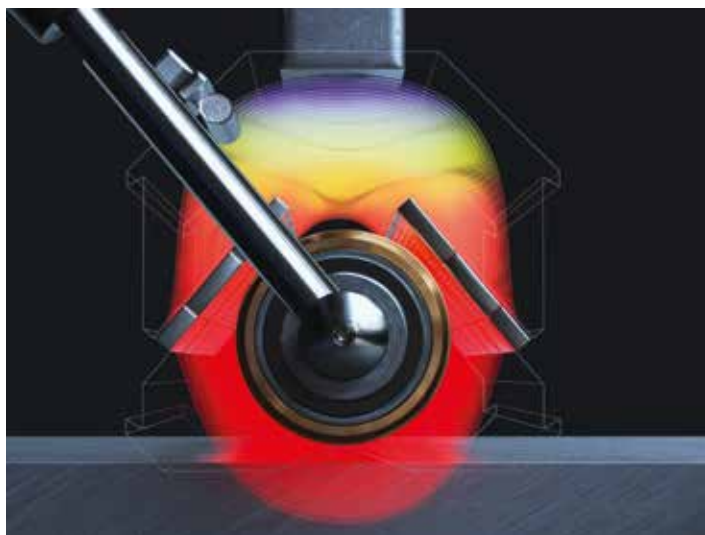
The **polar "V" geometry** to suit flat and round surfaces.

The **Quality Control and testing** are performed on all lifters MaxX during the various stages of production at our plant in Lainate Italy to guarantee the correct performance operation.

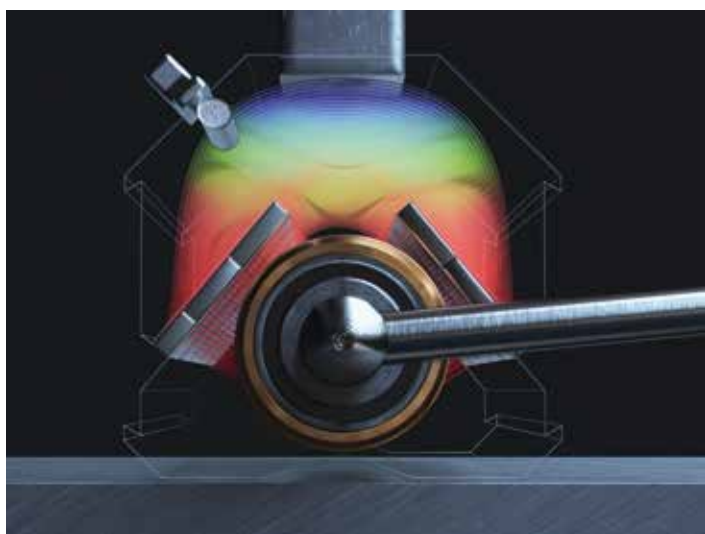


# MaxX<sup>®</sup>

## Double magnetic generator



The flux generated by the high-energy permanent magnets placed in the stator slots is added to those inside the rotor for a **double magnetic force** extremely powerful to lift any type of workpiece in complete safety.



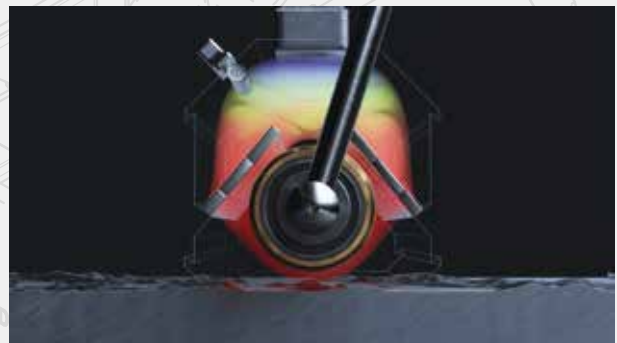
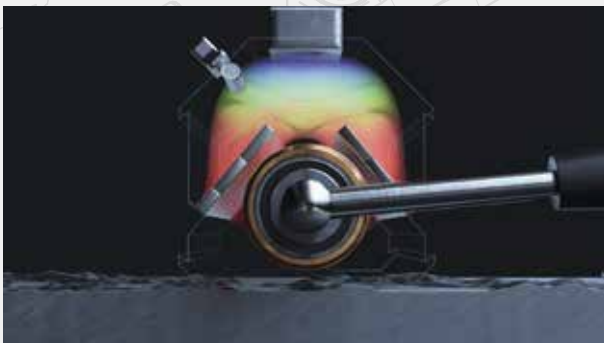
Rotating the lever to the rest position draws the entire magnetic flux inside the **MaxX** lifter, leaving the workpiece demagnetized without any residual. In addition, the perfect balance of the magnetic fields North/South inside the lifter prevents uncontrolled outflow of flux from the lifter body.



## A “Smart Lever” at your service for safe magnetization

The path and intensity of the magnetic flux to clamp the workpiece to be lifted comes from a precise study on the angle of the stator magnets with that of the rotor.

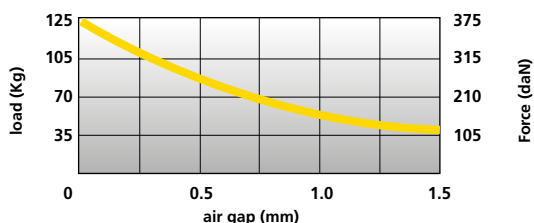
The result is the “smart” behavior of the lever which informs the operator immediately through its soft or hard rotation whether the application is safe or risky due to unsuitable operating conditions such as a high air gap, too little thickness, a partial coverage of the magnetic poles or a material that is poorly permeable to magnetism.



*If the operating conditions are unsafe, the lever will not allow the activation of the magnetic force*

# A complete range for all needs

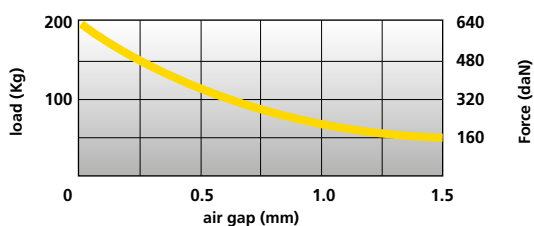
## MaxX 125



| Flat loads          |                 |                 |
|---------------------|-----------------|-----------------|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) |
| 125                 | 20              | 1000            |

| Round loads         |                 |                 |            |
|---------------------|-----------------|-----------------|------------|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) | Ø max (mm) |
| 50                  | 10              | 1000            | 300        |

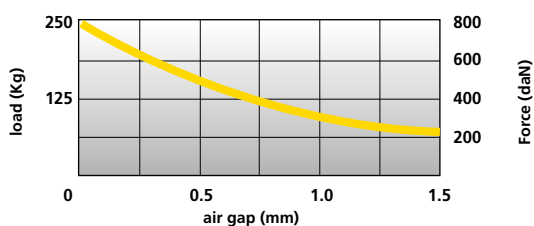
## MaxX 200



| Flat loads          |                 |                 |
|---------------------|-----------------|-----------------|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) |
| 200                 | 20              | 1500            |

| Round loads         |                 |                 |            |
|---------------------|-----------------|-----------------|------------|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) | Ø max (mm) |
| 80                  | 10              | 1500            | 300        |

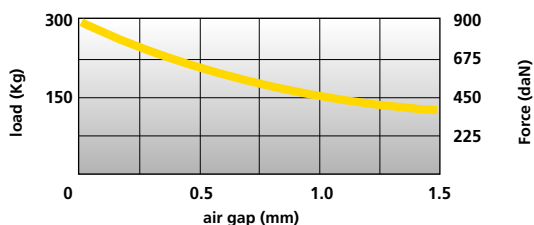
## MaxX 250



| Flat loads          |                 |                 |
|---------------------|-----------------|-----------------|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) |
| 250                 | 20              | 1500            |

| Round loads         |                 |                 |            |
|---------------------|-----------------|-----------------|------------|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) | Ø max (mm) |
| 100                 | 10              | 1500            | 300        |

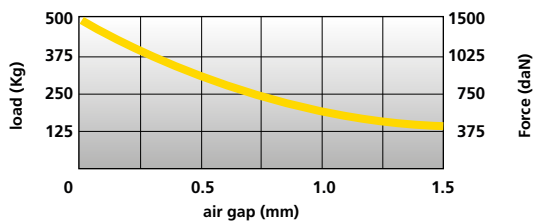
## MaxX 300



| Flat loads          |                 |                 |
|---------------------|-----------------|-----------------|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) |
| 300                 | 20              | 1500            |

| Round loads         |                 |                 |            |
|---------------------|-----------------|-----------------|------------|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) | Ø max (mm) |
| 120                 | 10              | 1500            | 300        |

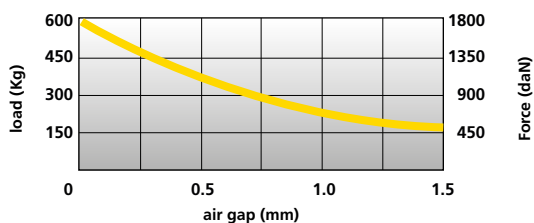
## MaxX 500



| Flat loads          |                 |                 |
|---------------------|-----------------|-----------------|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) |
| 500                 | 25              | 2000            |

| Round loads         |                 |                 |            |
|---------------------|-----------------|-----------------|------------|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) | Ø max (mm) |
| 200                 | 15              | 2000            | 400        |

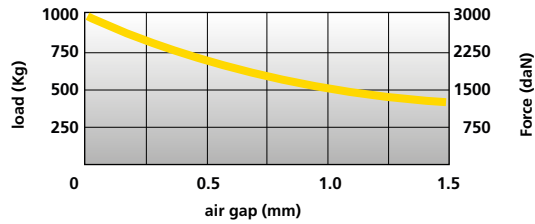
## MaxX 600



| Flat loads          |                 |                 |
|---------------------|-----------------|-----------------|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) |
| 600                 | 25              | 2000            |

| Round loads         |                 |                 |            |
|---------------------|-----------------|-----------------|------------|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) | Ø max (mm) |
| 240                 | 15              | 2000            | 400        |

## MaxX 1000

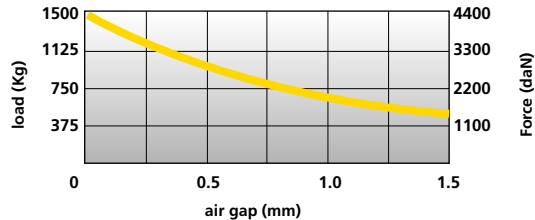


| Flat loads          |                 |                 |  |
|---------------------|-----------------|-----------------|--|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) |  |
| 1000                | 40              | 3000            |  |

| Round loads         |                 |                 |            |
|---------------------|-----------------|-----------------|------------|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) | Ø max (mm) |
| 400                 | 25              | 3000            | 450        |

## MaxX 1500

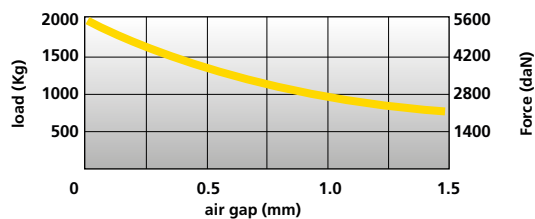


| Flat loads          |                 |                 |  |
|---------------------|-----------------|-----------------|--|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) |  |
| 1500                | 45              | 3000            |  |

| Round loads         |                 |                 |            |
|---------------------|-----------------|-----------------|------------|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) | Ø max (mm) |
| 600                 | 30              | 3000            | 500        |

## MaxX 2000

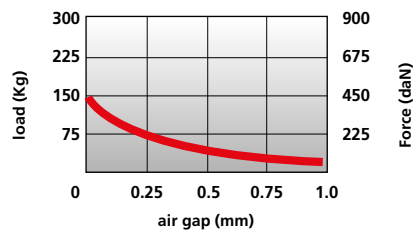


| Flat loads          |                 |                 |  |
|---------------------|-----------------|-----------------|--|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) |  |
| 2000                | 55              | 3000            |  |

| Round loads         |                 |                 |            |
|---------------------|-----------------|-----------------|------------|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) | Ø max (mm) |
| 800                 | 35              | 3000            | 600        |

## MaxX TG 150

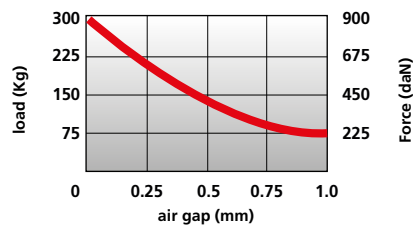


| Flat loads          |                 |                 |  |
|---------------------|-----------------|-----------------|--|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) |  |
| 150                 | 8               | 1500            |  |

| Round loads         |                 |                 |            |
|---------------------|-----------------|-----------------|------------|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) | Ø max (mm) |
| 50                  | 8               | 1500            | 240        |

## MaxX TG 300

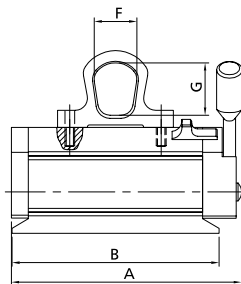
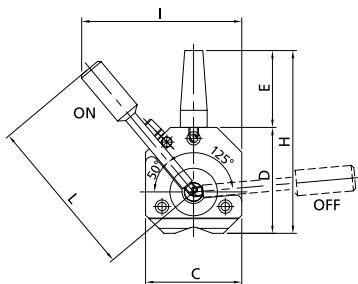


| Flat loads          |                 |                 |  |
|---------------------|-----------------|-----------------|--|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) |  |
| 300                 | 10              | 2000            |  |

| Round loads         |                 |                 |            |
|---------------------|-----------------|-----------------|------------|
| Max load (WLL) (Kg) | Min. thick (mm) | Max length (mm) | Ø max (mm) |
| 100                 | 10              | 2000            | 290        |

## Data sheet

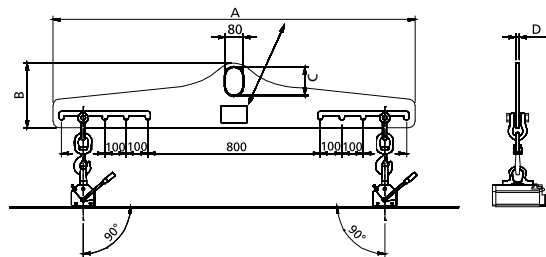
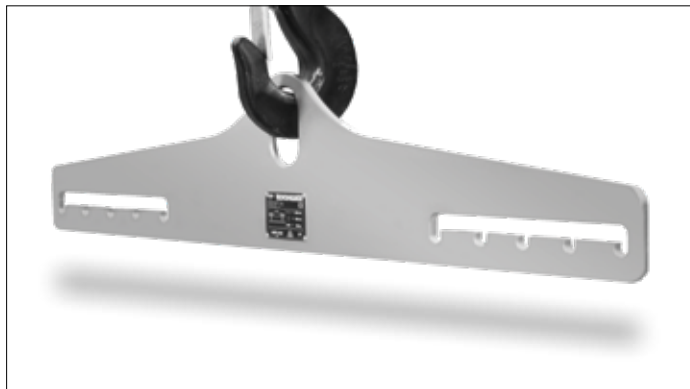


| Model       | Weight<br>(Kg) | Dimensions (mm) |     |     |     |     |    |    |     |     |     |
|-------------|----------------|-----------------|-----|-----|-----|-----|----|----|-----|-----|-----|
|             |                | A               | B   | C   | D   | E   | F  | G  | H   | I   | L   |
| MaxX 125    | 3,5            | 119             | 69  | 79  | 79  | 66  | 30 | 37 | 145 | 130 | 132 |
| MaxX 200    | 4,5            | 160             | 110 | 79  | 79  | 63  | 35 | 43 | 142 | 130 | 132 |
| MaxX 250    | 6              | 190             | 143 | 79  | 79  | 63  | 35 | 43 | 142 | 130 | 132 |
| MaxX 300    | 7,5            | 210             | 165 | 79  | 79  | 63  | 35 | 43 | 142 | 130 | 132 |
| MaxX 500    | 15             | 250             | 199 | 106 | 101 | 88  | 52 | 60 | 189 | 174 | 176 |
| MaxX 600    | 18             | 285             | 234 | 106 | 101 | 88  | 52 | 60 | 189 | 174 | 176 |
| MaxX 1000   | 36             | 340             | 284 | 133 | 131 | 88  | 52 | 60 | 219 | 228 | 238 |
| MaxX 1500   | 66             | 382             | 374 | 166 | 171 | 122 | 64 | 87 | 293 | 331 | 374 |
| MaxX 2000   | 80             | 457             | 390 | 166 | 171 | 122 | 64 | 87 | 293 | 331 | 374 |
| MaxX TG 150 | 6,8            | 191             | 143 | 79  | 91  | 63  | 35 | 43 | 154 | 130 | 132 |
| MaxX TG 300 | 16             | 250             | 199 | 106 | 116 | 88  | 52 | 60 | 204 | 174 | 176 |

## MFB - Magnetic Fixed beam

For handling bigger size loads using 2 hand controlled magnetic lifters.

MFB fits all MaxX models using 5 predefined centers distance depending on the size of the load.



|                 | A    | B   | C   | D  | Weight |
|-----------------|------|-----|-----|----|--------|
|                 | mm   | mm  | mm  | mm | Kg     |
| <b>MFB 500</b>  | 1680 | 300 | 130 | 15 | 37     |
| <b>MFB 2000</b> | 1900 | 415 | 160 | 18 | 75     |

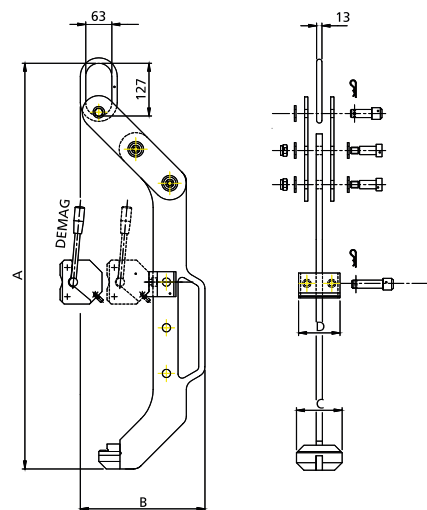
| <b>MFB 500</b> | Max lenght | Max width | Max load FLAT (WLL) | Max load ROUND (WLL) |
|----------------|------------|-----------|---------------------|----------------------|
|                | mm         | mm        | Kg                  | Kg                   |
| 2 MaxX 250     | 3000       | 1500      | 400                 | 200                  |
| 2 MaxX 300     | 3000       | 1500      | 500                 | 250                  |
| 2 MaxX TG 150  | 3000       | 1500      | 200                 | 100                  |
| 2 MaxX TG 300  | 3000       | 1500      | 500                 | 250                  |

| <b>MFB 2000</b> | Max lenght | Max width | Max load FLAT (WLL) | Max load ROUND (WLL) |
|-----------------|------------|-----------|---------------------|----------------------|
|                 | mm         | mm        | Kg                  | Kg                   |
| 2 MaxX 500      | 3000       | 1500      | 800                 | 400                  |
| 2 MaxX 600      | 3000       | 1500      | 900                 | 450                  |
| 2 MaxX 1000     | 3000       | 1500      | 1.500               | 750                  |
| 2 MaxX 1500     | 3000       | 1500      | 2.000               | 1.000                |
| 2 MaxX 2000     | 3000       | 1500      | 2.000               | 1.000                |

## MVS - Magnetic Vertical System

For vertical handling of plates.

MVS suits loads of various sizes by changing the position of the locking pins.

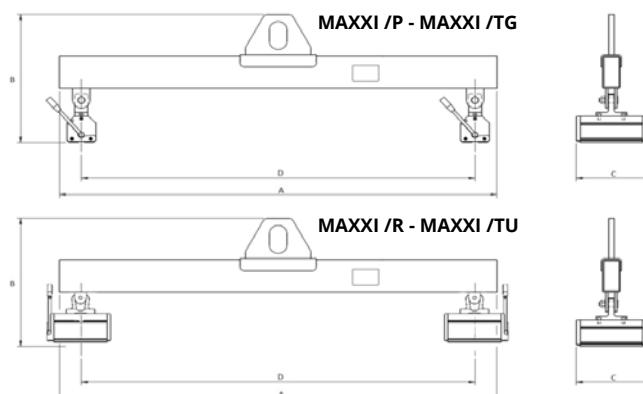


|            | <b>MVS 250</b> | <b>MVS 500</b> | <b>MVS 1000</b> |
|------------|----------------|----------------|-----------------|
| MaxX Model | 250 - 300      | 500 - 600      | 1000            |
| Max lenght | mm 800         | 1000           | 1000            |
| Max height | mm 550         | 700            | 800             |
| Max load   | Kg 180         | 350            | 700             |

| Dimensions and weights |       |     |     |     |        |
|------------------------|-------|-----|-----|-----|--------|
|                        | A     | B   | C   | D   | Weight |
|                        | mm    | mm  | mm  | mm  | Kg     |
| MVS 250                | 803   | 263 | 110 | 100 | 10     |
| MVS 500                | 959   | 298 | 140 | 160 | 18     |
| MVS 1000               | 1.058 | 330 | 140 | 160 | 19     |

## MAXXI

Fixed beams for handling plates, rounds and profiles.



MAXXI /P



MAXXI /R



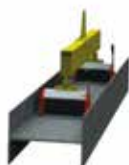
MAXXI /TU



MAXXI /TG



MAXXI /TG



### MAXXI /P for sheet and plate

| Model       | Equipped with 2 units | Min. thick | Width min. / max. | Lenght min. / max. | Max load |
|-------------|-----------------------|------------|-------------------|--------------------|----------|
|             |                       | mm         | mm                | mm                 | Kg       |
| MAXXI 1000P | MaxX 500              | 25         | 250 / 1500        | 1000 / 4000        | 1000     |
| MAXXI 2000P | MaxX 1000             | 40         | 300 / 2000        | 2000 / 5000        | 2000     |
| MAXXI 3000P | MaxX 1500             | 45         | 350 / 2000        | 2000 / 5000        | 3000     |

### MAXXI /R for round loads

| Model       | Equipped with 2 units | Min. thick | Width min. / max. | Lenght min. / max. | Max load |
|-------------|-----------------------|------------|-------------------|--------------------|----------|
|             |                       | mm         | mm                | mm                 | Kg       |
| MAXXI 1200R | MaxX 1500             | 30         | 45 / 500          | 2000 / 6000        | 1200     |

### MAXXI /TU for pipes

| Model       | Equipped with 2 units | Min. thick | Width min. / max. | Lenght min. / max. | Max load |
|-------------|-----------------------|------------|-------------------|--------------------|----------|
|             |                       | mm         | mm                | mm                 | Kg       |
| MAXXI 240TU | MaxX 300TG            | 10         | 45 / 290          | 2000 / 6000        | 240      |

### MAXXI /TG for thin sheet

| Model       | Equipped with 2 units | Min. thick | Width min. / max. | Lenght min. / max. | Max load |
|-------------|-----------------------|------------|-------------------|--------------------|----------|
|             |                       | mm         | mm                | mm                 | Kg       |
| MAXXI 300TG | MaxX 150TG            | 8          | 200 / 1500        | 1000 / 4000        | 300      |
| MAXXI 600TG | MaxX 300TG            | 10         | 250 / 1500        | 1000 / 4000        | 600      |

### MAXXI /TG for beams and profiles

| Model       | Equipped with 2 units | Min. thick | Width min. / max. | Lenght min. / max. | Max load |
|-------------|-----------------------|------------|-------------------|--------------------|----------|
|             |                       | mm         | mm                | mm                 | Kg       |
| MAXXI 300TG | MaxX 150TG            | 8          | 300 / 1500        | 1000 / 6000        | 300      |
| MAXXI 600TG | MaxX 300TG            | 10         | 330 / 1500        | 1000 / 6000        | 600      |

### Dimensions and weights

| Model        | A     | B   | C   | D     | Weight |
|--------------|-------|-----|-----|-------|--------|
|              | mm    | mm  | mm  | mm    | Kg     |
| MAXXI 1000/P | 906   | 460 | 250 | 800   | 50     |
| MAXXI 2000/P | 2.000 | 640 | 340 | 1.800 | 110    |
| MAXXI 3000/P | 2.000 | 640 | 382 | 1.800 | 170    |
| MAXXI 1200/R | 2.210 | 680 | 500 | 1.800 | 170    |
| MAXXI 240/TU | 1.070 | 480 | 250 | 800   | 50     |
| MAXXI 300/TG | 880   | 450 | 190 | 800   | 40     |
| MAXXI 600/TG | 906   | 470 | 250 | 800   | 50     |



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