

## 1 BRANCH <br> 3 RANGES

## 1 BRANCH

3 RANGES

## AC-POWER

ELECTRO PERMANENT LIFTING MAGNETS



## DC-POWER

BATTERY POWERED ELECTRO PERMANENT LIFTING MAGNETS


## MAGNETIC MODULES FOR AUTOMATION



SERIE: HEBMP
Electro permanent magnetic modules for production and welding automation

## ELECTRO PERMANENT MAGNETIC TECHNOLOGY

FOR QUICK AND SAFE HANDLING OF STEEL PLATES AND -STRIPS


## TECHNOLOGY

MAGBAT-Electro Permanent Magnets (EPM) offer 95\% energy savings and superior safety compared to traditional electromagnets. They require power only during MAG and DEMAG phases, operating without
power supply. The technology features an electro permanent magnetic power supply. The technology features an electro permanent magnetic
circuit with alternating $\mathrm{N} / \mathrm{S}$ poles, following the chessboard principle, in circuit with alternating $\mathrm{N} / \mathrm{S}$ poles, following the chessboard principle, in a
magnetically neutral frame. Each pole includes a steel core surrounded by fixed polarity magnets (Neodymium). Beneath the steel core, a magnet with reversible polarity (AINiCo) is surrounded by an electric coil. A short current pulse through the coil enables the magnetic field to move in and out of the system.


## CONSTANT POWER

Because no continuous current flows through the electric coils, electro permanent magnets do not heat up and the force remains constant. his contrasts with electromagnets that require continuous current and heat up, resulting in a loss of power


## 95\% LOWER ENERGY CONSUMPTION

MAGBAT electro permanent magnets use electrical current for only a few seconds to reverse the polarity of the magnetic poles. This contrasts with electromagnets that continuously consume electrical power during the
entire lifting process.

## ADVANTAGES

OO\% safe. EPM only need electricity while activating or deactivating the magnet. The effective force is developed by permanent magnets.
Predictable and constant force

- More than $95 \%$ electricity savings compared to conventional electromagnets.

No backup batteries required. The magnetic force remains in the event of a power failure.
No heating of the magnet, longer life of the electric coils
No residual magnetism in the material.
No interference with electronic environmental periphery
No moving parts, Low maintenance costs

## ELECTRO PERMANENT MAGNETIC TECHNOLOGY

 The electric current is only used to invert the magnetic field, while the effective force is generated by permanent power failure the magnetic force remains permanently present $=100 \%$ safePICK-UP CYCLE Lifting is done in 2 phases, whereby the workpiece is first lifted at a lower preset force, immediately followed by FULLMAG ( $100 \%$ of the tota force)

## 

SPC-SYSTEM (SYSTEM PERFORMANCE CHECK) The electronic system continuously monitors the proper functioning of the magnet. Any abnormal situation is reported by an error code on the help screen. In this way errors can be immediately analysed and resolved.

## SAFETY FACTOR 3:1

 To lift safely, a possible air gap between the contact surface ofthe magnet, and the steel to the magnet, and the steel to That is why all our magnets are designed with a minimum safety factor of $3: 1$ measured at
an air gap of 0.4 mm .

## 2 BUTTON OPERATION

To start the demagnetizati cycle, 2 buttons (SAFE + DEMAG) must be pressed
consecutively on the remote control

LAMP BLOCK The status of the magnet is visually indicated by a clear LED lamp block. The load may lamp lights up continuously
(1) PICK-UP FULLMAG
demag alarm


LANDING DETECTION An inductive proximity switch detects when the magnet is suspended in the air, and prevents accidental demagnetisation.

RADIO REMOTE CONTROL The magnet is operated from a safe distance. The operator should not come in the immediate vicinity of the load.

INSTRUCTION PANEL
INSTRUCTION PANEL
With clear safety instructions
the user regarding:
Maximum weight of the load in function of material thickness deflection of the materia.


## MAGBAT

THE SAFEST LIFTING MAGNET IN THE WORLD

## HM1

FIX ELECTRO PERMANENT MAGNETIC BEAM

THE ECONOMIC SOLUTION FOR LIFTING STEEL PLATES $\geq 5 \mathrm{MM}$
SAFETY FACTOR 3

Lifting long steel plates and strips is a dangerous and time-consuming activity. Using traditional plate clamps or chains will cause the load to bend and deform and makes lifting unstable and dangerous. The HM7 electro permanent magnet beams are the economical solution to this problem The load is clamped uniformly from above without deformation and / or damage of the steel plate

## PICK-UP CYCLE

Depending on the thickness of the steel plate, the force can be adjusted, so that only 1 plate is guaranteed to be lifted.


Percentage of total force at PICK UP: POSITION I = POSITION II $=25 \%$ POSITION II $=25 \%$
POSITION III $=35 \%$ POSITION IV $=55^{\circ}$

SELECTION MAGNETIC MODULES A corresponding number of magnet modules can be selected via a 4-position switch, depending on the dimensions of the steel plate to be lifted.


with inductive proximity switch against accidental demagnetizing in the air.


Landing detection system
ang of the steel sheet in function of the material thickness.

$$
\begin{aligned}
& \mathrm{S}=\text { Thickness Sseebleet (mm) } \\
& \mathrm{L}=\text { Overhing (m) }
\end{aligned}
$$

Maximum Load Instructions


HM2
TELESCOPIC ELECTRO PERMANENT MAGNETIC BEAM

LIFTING OF STEEL PLATES $\geq 5 \mathrm{MM}$ IN VARIOUS LENGHTS
SAFETY FACTOR 3

LIFTING OF STEEL PLATES $\geq 5 \mathrm{MM}$ IN VARIOUS LENGHTS

SAFETY FACTOR 3

Large steel plates are often difficult to handle. When lifting with traditional chains and hooks, the load has the intention to bend and deform, making transport unstable and dangerous. With the HM2 series electro permanent magnet beams, the load is lifted evenly from the top, without deformation or damage to the load.

## PICK-UP CYCLE

Depending on the thickness of the steel plate, the force can be adjusted, so that only 1 plate is guaranteed to be lifted.


## TELESCOPIC SYSTEM

The telescopic system is driven by a combination electric motor / screw spindle, which allows the telescopic arms to move in and out quickly and synchronously. In this way, the magnetic beam can be adjusted quickly and easily to the length of the steel plate, so the deflection and deformation of the material is minimal.


SELECTION MAGNETIC MODULES
A corresponding number of magnet modules can be selected via a 4-position switch, depending on the dimensions of the steel plate to be lifted. The possibility to shorten or extend the centre distance between the crossbeams and to select the magnet modules individually, make the HM2 traverses exceptionally flexible in use, even in limited spaces.

## STEEL PLATES 12M

| PRODUCT | WEIGHT (KG) | LENGTH (MM) |  | WIDTH (MM) |  | $\begin{aligned} & \hline \text { T (MM) } \\ & \text { MIN. } \end{aligned}$ | CAPACITY (KG) | EPM QTY |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | MIN. | max. | MIN. | max. |  |  |  |
| HM2-12-050 | 2350 | 3000 | 12000 | 500 | 3000 | 5 | 5000 | 8 |
| HM2-12-080 | 2500 | 3000 | 12000 | 500 | 3000 | 5 | 8000 | 8 |
| HM2-12-100 | 2650 | 3000 | 12000 | 500 | 3000 | 5 | 10000 | 8 |
| HM2-12-120 | 2800 | 3000 | 12000 | 500 | 3000 | 5 | 12000 | 8 |
| HM2-12-150 | 2950 | 3000 | 12000 | 500 | 3000 | 5 | 15000 | 8 |
| HM2-12-200 | 3350 | 3000 | 16000 | 500 | 3200 | 5 | 20000 | 8 |
| HM2-12-240 | 3550 | 3000 | 16000 | 500 | 3200 | 5 | 24000 | 8 |

## STEEL PLATES 16M

| PRODUCT | WEIGHT <br> (KG) | LENGTH (MM) |  | WIDTH (MM) |  | T(MM) | CAPACITY | EPM |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MIN. | MAX. | MIN. | MAX. | MIN. | (KG) | QTY |  |  |
| HM2-16-090 | 3300 | 3000 | 16000 | 500 | 3500 | 5 | 9000 | 12 |
| HM2-16-120 | 3400 | 3000 | 16000 | 500 | 3500 | 5 | 12000 | 12 |
| HM2-16-160 | 3600 | 3000 | 16000 | 500 | 3500 | 5 | 16000 | 12 |
| HM2-16-200 | 3800 | 3000 | 16000 | 500 | 3500 | 5 | 20000 | 12 |
| HM2-16-240 | 4000 | 3000 | 16000 | 500 | 3500 | 5 | 24000 | 12 |
| HM2-16-350 | 10000 | 3000 | 16000 | 500 | 4200 | 15 | 35000 | 12 |
| HM2-16-500 | 11000 | 3000 | 16000 | 500 | 4200 | 15 | 50000 | 12 |

Other dimensions on request


ADVANTAGES OF ELECTRIC POWERED SYSTEM OVER HYDRAULIC

- Electric powered telescopic system is faster than hydraulic
An electric motor requires no
maintenance, while a hydraulic pump requires regular maintenance.
Better and more robust guidance of the hydraulic arms. Steel rollers instead of nylon blocks.
More reliable. No hydraulic cylinder that can bend in the event of sudden impact.


FIX ELECTRO PERMANENT MAGNETIC BEAM

LIFTING AND TILTING OF VERTICAL
STEEL PLATES AND -STRIPS
SAFETY FACTOR 3

The HM4 electro permanent magnet beam is the ideal solution when space s an issue and vertical storage of steel sheets can provide a solution.
These very powerful magnetic modules have a safety factor of 3:1 calculated for shear force.
The steel plate is easily lifted in or out of the storage rack, from a distance, without risk to the operator.
Via the downward movement of the crane, the integrated tilting system ensures that the steel strip finally lands horizontally, on the ground or on the table of a cutting machine.
$\qquad$

## OPTION

With the AUTEC-SK4 remote control, the operator has his hands free to operate the overhead crane

FEATURES:
Belt attachment


## HM5

## FIX ELECTRO PERMANENT MAGNETIC BEAM

LOADING AND UNLOADING CUTTING
MACHINES IN ONE MOVE
SAFETY FACTOR 3

HM5 - electro permanent magnetic beams are used to load the cutting machine, AND to unload the cutted parts + frame from the cutting machine in 1 movement.
Depending on the min. size of the cut pieces, these beams are produced according to the customer's requirements

## FAST RETURN ON INVESTMENT

The HM5 electro permanent magnetic beam reduces the downtime of your machine and it creates extra production capacity so that extra orders can be accepted

## ERGONOMIC-INCREASED SAFETY

It is no longer necessary for the operator to climb on and off the machine to unload it. This creates better working conditions and increased safety.

## FLEXIBILITY

Depending on the zone to be cleared, the operator has the option of selecting a specific zone.


CALCULATION EXAMPLE RO
Cutting capacity per per day: 10 steel plates
Time to load + unload the machine: 20 minutes
Downtime per day: 200 minutes $=3.3$ hours
Downtime per day: 30 minutes $=0.5$ hours
Profit per day $=140 €$
Additional production capacity per day $=2.8$ hours
Profit per year $=140 € \times 220$ days $=30,800 €$
Extra production capacity per year $=616$ hours

| PRODUCT | LENGTH | WIDTH | THICKNESS (MM) |  | MIN.CUTTED PIECES | CAPACITY (KG) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MAX. | MAX. | MIN. | MAX. | (MM) |  |  |
| HM5-03-015/P | 3000 | 1500 | 5 | 40 | $250 \times 250$ | 1500 |
| HM5-06-040/P | 6000 | 2000 | 5 | 40 | $250 \times 250$ | 4000 |
| HM5-06-060/P | 6000 | 2500 | 5 | 40 | $250 \times 250$ | 6000 |
| HM5-09-085/P | 9000 | 3000 | 5 | 40 | $250 \times 250$ | 8500 |
| HM5-12-115/P | 12000 | 3000 | 5 | 40 | $250 \times 250$ | 11500 |


| PRODUCT | LENGTH | WIDTH | THICKNESS (MM) |  | MIN.CUTTED PIECES | (MM) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CAPACITY (KG) |  |  |  |  |  |  |
| HM5-03-015/L | 3000 | MAX. | MIN. | MAX. | (K) |  |
| HM5-06-020/L | 6000 | 1500 | 1,5 | 30 | $80 \times 80$ | 1000 |
| HM5-06-030/L | 6000 | 2000 | 1,5 | 30 | $80 \times 80$ | 2000 |
| HM5-09-040/L | 9000 | 2000 | 1,5 | 30 | $80 \times 80$ | 3000 |

## OXY CUTTING

| PRODUCT | LENGTH | WIDTH | THICKNESS (MM) |  | MIN.CUTTED PIECES | CAPACITY (KG) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MAX. | MAX. | MIN. | MAX. | (MM) |  |  |
| HM5-03-040/0 | 3000 | 2000 | 5 | 80 | $300 \times 300$ | 4000 |
| HM5-06-100/0 | 6000 | 2500 | 5 | 80 | $300 \times 300$ | 10000 |



## OXY \& PLASMA CUTTING

Other dimensions on request

## LASERCUTTING

Other dimensions on request


## FIX ELECTRO PERMANENT

 MAGNETIC BEAMHM6 magnetic beams are equipped with electro permanent magnetic modules that generate an extra deep magnetic field, making them suitable for manipulating stacks of steel sheets.

## SIMPLIFIED TIPPING

Our unique technology allows to release sheet by sheet by a simple push on the button. Each time the button is pressed exactly 1 steel plate is released.

NO BACK-UP BATTERIES REQUIRED Because the HM5 is based on electro permanent magnet technology, where the perce is generated by permanent magnets, back-up batteries are not required.

ENERGY EFFICIENT
The HM6 only uses electric current to electrical current is required during the loning phase This makes the HM5 potro permanent magnetic beam 95\% more economical than traditional electromagnets


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## HS <br> ELECTRO PERMANENT MAGNETIC BEAM

LIFTING OF HEA-HEB-IPE-IPN
PROFILES
SAFETY FACTOR 3

Lifting profiles is a time-consuming and dangerous operation. Profiles are often stacked on top of each other, which makes them difficult to handle. When using standard profile clamps, long profiles bend, which makes transport extremely dangerous, and damage to the profile can occur. With the HS-electro permanent magnetic beams the profile is uniformly clamped from above and lifted and moved lamped fomabor and/or damage to the damage to the profile.

## PICK-UP CYCLE

To ensure that only one profile is lifted, the PICK-UP force can be set to 4 levels.


Percentage of total power at PICK-UP: POSITION I $=15 \%$ POSITION II $=25 \%$ POSITION III $=35 \%$
POSITION IV $=55 \%$

## SELECTION MAGNETIC MODULES

 Depending on the length of the profile to be lifted, a corresponding number of magnetic modules can be selected via a 4 -position switch.

Landing detection system with inductive proximity switch against accidental demagnetisation
in the air


## HS

ELECTRO PERMANENT MAGNETIC BEAM

LIFTING OF HEA-HEB-IPE-IPN PROFILES

SAFETY FACTOR 3


MODELS

| PRODUCT | WEIGHT <br> (KG) | LENGTH (MM) |  | WIDTH (MM) |  | CAPACITY | EPM |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (KIN. | MAX. | MIN. | MAX. | (KG) | QTY |  |  |
| HS-06-013 | 500 | 3000 | 6000 | 80 | 600 | 1300 | 2 |
| HS-12-026 | 900 | 3000 | 12000 | 80 | 600 | 2600 | 4 |
| HS-15-026 | 1000 | 1000 | 15000 | 80 | 600 | 2000 | 4 |
| HS-18-039 | 1400 | 3000 | 18000 | 80 | 600 | 3900 | 6 |
| HS-24-052 | 2100 | 3000 | 24000 | 80 | 600 | 5200 | 6 |

Other dimensions on request

HB
ELECTRO PERMANENT MAGNETIC MODULES

HC
ELECTRO PERMANENT MAGNETIC MODULES

LIFTING OF COILS

HB elektro permanent magnet modules are specially designed to deal with large air gaps. This makes them particularly well suited for lifting slabs and billets.


Complete range of electro-permanent magnet modules specially designed for fast and safe manipulation of coils with horizontal ( $\mathrm{HC} / \mathrm{H}$ ) or vertical eye ( $\mathrm{HC} / \mathrm{V}$ ). The coil material is not compressed and damaged, which is the case when using traditional coil grippers. Because the coils can be stored next to each other, space can be saved up to 30\%. The electronic control unit is provided with an interface and can be integrated into an automatic process.



The HT series has been specially developed for the quick and safe handling of single, rows and bundles of pipes without the risk
of damaging the coating or paint layer.
Space and cost saving solution as no wooden spacers are required.

Electro permanent magnet modules with electronic control unit on board.

Operation by means of the built-in digital push buttons or by the radio remote control supplied as standard.


## ELECTRO PERMANENT LIFTING MAGNETS WITH LITHIUM BATTERY

FOR FLAT AND ROUND PARTS
SAFETY FACTOR 3

Complete range of electro permanent lifting magnets with integrated lithium battery for lifting flat and cylindrical workpieces.

## HIGH AUTONOMY

Thanks to the built-in rechargeable lithium battery, the lifting magnet can perform more than 1000 cycles before it needs to be charged.

## EASY OPERATION

Clear control panel with illuminated digital push buttons.

## AUTO-FUNCTION

When activated, the MAG and DEMAG cycle is controlled by the proximity switch located below the lifting eye. Ideal for quickly discharging e.g. cutting machines.



The proximity switch prevents demagnetization in the air and starts the MAG and DEMAG cycle when AUTO-cycle selected.

TIP:
The AUTO function makes it possible to combine several magnets on a lifting beam.
All magnets are activated simultaneously by
their proximity switch at the moment of hoisting. This makes it easy to lift long and heavy parts.

## MAXIMUM SAFETY

The magnet is activated by a short current pulse. The effective force is generated by permanent magnets. The safety factor of 3 guarantees safe operation, even with rough and dirty workpieces.

## ENERGY FRIENDLY

95\% less energy consumption than traditional electromagnets. A short current pulse is enough to activate / deactivate the magnet. The powerful rechargeable battery guarantees $>1000$ cycles before charging.

## ERGONOMIC

No power cable required
Manual operation by using the magnet's control panel. NEW! Automatic switching between MAG and DEMAG via the proximity switch

- Safety factor 3:1
- 6 models from 500 kg to 5000 kg
- Lithium battery technology with high autonomy
- Manual or automatic operation
- 4 Levels PICK-UP force for lifting 1 single
steelsheet from a stack
- Proximity switch against accidental demagnetization in the air.
MODELS

| PRODUCT | WEIGHT (KG) | BATTERY (VDC) | MIN. THICKNESS (MM) | SWL FLAT (KG) | SWL ROUND (KG) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HBEP-005 | 51 | 60 | 4 | 500 | 250 |
| HBEP-010 | 73 | 60 | 6 | 1000 | 500 |
| HBEP-015 | 88 | 60 | 6 | 1500 | 750 |
| HBEP-020 | 118 | 60 | 8 | 2000 | 1000 |
| HBEP-030 | 185 | 60 | 10 | 3000 | 1500 |
| HBEP-050* | 502 | 72 | 20 | 5000 | 2500 |

## HBEPP

FIX ELECTRO PERMANENT MAGNETIC BEAM WITH BATTERY SUPPLY

LIFTING OF STEEL SHEETS
SAFETY FACTOR 3

Steel sheets and steel strips are often difficult to handle. When lifting with traditional chains, slings and hooks, the load tends to bend and deform, making transport unstable and dangerous. With the HBEPP electro permanent magnet beams, the load is lifted evenly from the top, without deformation or damage to the load

## PICK-UP CYCLE

Depending on the thickness of the steel plate, the PICK-UP force can be adjusted to ensure that only one plate is lifted.


Percentage of total force at PICK UP:
POSITION I = 15\%
POSITION II $=25 \%$ POSITION III = 35\%
POSITION IV = 55\%

## SELECTION OF MAGNETIC

 MODULESDepending on the dimensions of the material to be lifted, a number of corresponding magnetic modules can be selected via a 4 -position switch.


## NNOVATIVE BATTERY

 TECHNOLOGYBecause only a short pulse of electric current is required for magnetisation and demagnetisation, more than 300 cycles can be performed with one fully charged battery. The status of the battery is continuously monitored and clearly displayed.


## HBEPP

FIX ELECTRO PERMANENT MAGNETIC BEAM WITH BATTERY SUPPLY

## (1FINTING OF STEEL SHEETS

SAFETY FACTOR 3


## MODELS

| PRODUCT | WEIGHT (KG) | BATTERY(VDC) | LENGTH (MM) |  | WIDTH (MM) |  | $\begin{aligned} & \mathrm{T}(\mathrm{MM}) \\ & \text { MIN. } \end{aligned}$ | CAPACITY | EPMQTY |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | MIN. | max. | MIN. | max. |  |  |  |
| HBEPP-03-010 | 500 | 72 | 500 | 3000 | 500 | 1500 | 5 | 1000 | 4 |
| HBEPP-06-030 | 950 | 72 | 500 | 6000 | 1200 | 2500 | 5 | 3000 | 6 |
| HBEPP-06-060 | 950 | 72 | 500 | 6000 | 500 | 2500 | 5 | 6000 | 6 |
| HBEPP-06-090 | 950 | 72 | 500 | 6000 | 500 | 2500 | 5 | 9000 | 6 |
| HBEPP-06-120 | 1950 | 72 | 500 | 6000 | 500 | 2500 | 5 | 12000 | 6 |
| HBEPP-09-080 | 1250 | 72 | 2500 | 9000 | 500 | 3000 | 5 | 8000 | 8 |
| HBEPP-09-120 | 1750 | 72 | 2500 | 9000 | 500 | 3000 | 5 | 12000 | 8 |
| HBEPP-12-050 | 1695 | 72 | 5000 | 12000 | 500 | 3000 | 5 | 5000 | 10 |
| HBEPP-12-100 | 2010 | 72 | 5000 | 12000 | 500 | 3000 | 5 | 10000 | 10 |
| HBEPP-12-180 | 2850 | 120 | 1700 | 12000 | 1000 | 3200 | 5 | 18000 | 16 |
| HBEPP-16-200 | 4650 | 120 | 2000 | 16000 | 1500 | 3500 | 5 | 20000 | 16 |
| HBEPP-16-250 | 4860 | 120 | 2000 | 16000 | 1500 | 3500 | 5 | 25000 | 16 |

## HBEPP/S

FIX ELECTRO PERMANENT MAGNETIC BEAM WITH BATTERY SUPPLY

Steel strips are often difficult to lift due to their length and flexibility.
They are often stored in racks and are therefore difficult to reach for the operator.
Lifting steel strips becomes an easy job with the battery-powered HBEPP series of electro permanent magnet beams.

SUPER SLIM EXECUTION
Can be lowered into the rack where the steel strips are stored without any problem

## LANDING DETECTION SYSTEM

n-tube landing detection system to detect whether or not the steel strip may be safely released.



## HBEPP/L

FIX ELECTRO PERMANENT MAGNETIC BEAM WITH BATTERY SUPPLY

LIFTING OF THIN STEEL SHEETS SAFETY FACTOR 3

Lifting thin steel plates is a time consuming and dangerous process
Because of the dimensions and flexibility, the steel plate will sag, which increases the risk of accidents. This series of electro permanent magnet beams ensures that the steel plate is clamped evenly, and lifted and moved almost without deformation,
quickly and safely.

MODELS

| PRODUCT | WEIGHT(KG) | battery (VDC) | LENGTH (MM) |  | WIDTH (MM) |  | $\begin{aligned} & \text { T (MM) } \\ & \text { MIN. } \end{aligned}$ | CAPACITY (KG) | $\begin{aligned} & \text { EPM } \\ & \text { QTY } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | min. | max. | MIN. | max. |  |  |  |
| HBEPP-03-008/L | 465 | 72 | 500 | 3000 | 900 | 1500 | 2 | 750 | 6 |
| HBEPP-06-005/L | 500 | 72 | 400 | 6000 | 60 | 300 | 3 | 500 | 4 |
| HBEPP-06-030/L | 1440 | 72 | 2000 | 6000 | 1200 | 2500 | 3 | 3000 | 8 |

## HBEPP/T

MANUAL TELESCOPIC

## ELECTRO PERMANENT MAGNETIC BEAM

 WITH BATTERY SUPPLYThis electro permanent magnet traverse is equipped with a telescopic system Both arms are simply retracted or extended synchronously via a manual lever his makes this magnetic beams particularly suitable for lifting steel plates in different lengths. When the telescopic system is retracted the magnetic force is concentrated in a limited area, allowing heav, short parts to be lifted

## LANDING DETECTION SYSTEM

The landing detection system consists of a cam mounted on the anchor shackle and a proximity switch, and prevents demagnetizing in the air


## SYNCHRONE TELESCOPIC

 SYSTEMThe telescopic system, which consists of an L\&R screw spindle, can be moved in and out smoothly via a manual leve



## MODELS

| PRODUCT | WEIGHT (KG) | BATTERY (VDC) | LENGTH (MM) |  | WIDTH (MM) |  | $\begin{aligned} & \text { T (MM) } \\ & \text { MIN. } \end{aligned}$ | CAPACITY (KG) | $\begin{aligned} & \text { EPM } \\ & \text { QTY } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | MIN. | max. | MIN. | max. |  |  |  |
| HBEPP-06-020/T | 780 | 72 | 1000 | 6000 | 500 | 3000 | 5 | 2000 | 4 |
| HBEPP-06-060/T | 1030 | 72 | 1000 | 6000 | 500 | 3000 | 5 | 6000 | 4 |

## HBEPS

ELECTRO PERMANENT LIFTING MAGNETS WITH LITHIUM BATTERY

FOR I, H AND L PROFILES
SAFETY FACTOR 3

Complete range of electro permanent lifting magnets with integrated lithium battery for lifting I, H and L profiles

## HIGH AUTONOMY

Thanks to the built-in rechargeable lithium battery, the lifting magnet can perform more than 1000 cycles before it needs to be charged.

## EASY OPERATION

Clear control panel with illuminated digital push buttons.

## AUTO-FUNCTION

When activated, the MAG and DEMAG cycle is controlled by the proximity switch located below the lifting eye. Ideal for quickly discharging e.g. sawing machines.



## TIP:

The AUTO function makes it possible to combine several magnets on a lifting beam.
All magnets are activated simultaneously by
their proximity switch at the moment of hoisting. This makes it easy to lift long and heavy parts.

## MAXIMUM SAFETY

The magnet is activated by a short current pulse. The effective force is generated by permanent magnets. The safety factor of 3 guarantees safe operation, even with rough and dirty workpieces.

## ENERGY FRIENDLY

95\% less energy consumption than traditional electromagnets. A short current pulse is enough to activate / deactivate the magnet. The powerful rechargeable battery guarantees >1000 cycles before charging.

## ERGONOMIC

No power cable required.
Manual operation by using the magnet's control panel. NEW! Automatic switching between MAG and DEMAG via the proximity switch

Safety factor 3:1
Capacity 650 kg
Lithium battery technology with high autonomy
Manual or automatic operation
4 Levels PICK-UP force for lifting 1 single profile Proximity switch against accidental
demagnetization in the air

MODELS

| PRODUCT | WEIGHT (KG) | BATTERY (VDC) | I, H AND L PROFILES <br> MAX. LENGTH (MM) | CAPACITY <br> (KG) |
| :---: | :---: | :---: | :---: | :---: |
| HBEPS-650A | 140 | 60 | 3000 | 500 |

## HBEPS

ELECTRO PERMANENT MAGNETIC BEAM WITH BATTERY SUPPLY

LIFTING OF HEA-HEB-IPE-IPN PROFILES

SAFETY FACTOR 3

Lifting profiles is a time-consuming process, often involving risks for the operator and he environment. In addition, modern sawing lines are equipped with light curtains that make it difficult for operators to move around in the production environment. The HBEP electro permanent magnet traverse on battery power makes it possible to load and unload saw lines in a fast and quick way

## PICK-UP CYCLE

Depending on the thickness of the steel plate, the PICK-UP force can be adjusted to ensure that only one plate is lifted.


Percentage of total force at PICK UP:
POSITION I = 15\%
POSITION II $=25 \%$ POSITION III = 35\% POSITION IV = 55\%

## SELECTION OF MAGNETIC

 MODULESDepending on the length of the proflle to be lifted, a number of corresponding magnetic modules can be selected via a 4-position switch.


INNOVATIVE BATTERY INNOVATIVE BA
TECHNOLOGY

Because only a short pulse of electric current is required for magnetisation and demagnetisation, more than 300 cycles can be performed with one fully charged battery. The status of the battery is continuously monitored and clearly displayed.


## HBEPS

ELECTRO PERMANENT MAGNETIC BEAM WITH BATTERY SUPPLY


## HEPMP

ELECTRO PERMANENT MAGNETIC MODULES FOR PRODUCTION AND WELDING AUTOMATION

MAXIMUM SAFETY
The magnet is activated by a short curent pulse.
The effective force is generated by permanent magnets.

ENERGY FRIENDLY
95\% less energy consumption than traditional electromagnets. A short current pulse is enough to activate deactivate the magnet.

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NO MAGNETIC INTERFERENCES The magnetic field is local, controlled and does not spread through the material. It doesn't effect welding operations.



MAGBAT-Europe is specialised in electro permanent magnet technology and focusing on the distribution of magnetic quick change systems for moulds and dies, magnetic clamping plates for metalworking machines, industrial lifting magnets and customer-oriented magnetic solutions.

As exclusive partner of HVR-Magnetics, MAGBAT-Europe is taking care of the commercialisation and service after sales in the Europe. In close collaboration with HVR Magnetics, we develop equipment adapted to the requirements of the European market.

With continuous focus on R\&D, our philosophy is to pursue a fair win / win policy with our customers, create added value for employees, increase benefits for our customers, and make safe operation as a priority.

The unique advantages of the MAGBAT products are safety, energy saving, high efficiency, and environmental friendliness. Our products are used in various sectors such as: steel construction, machine construction, shipbuilding, steel trade, railway and rolling material, injection moulding companies and various other industries.

We strictly adhere to the requirements of the quality certification standard ISO 9001: 2015.



[^0]:    ther dimensions on request

