



Technical description

Suitable for flexible, network-independent use with mobile excavators, crane systems and fork-lift trucks, for taking up or sorting small ferromagnetic loads and small parts in the recycling sector and also for rail refurbishments.

- Magnet housing of robust welded steel construction
- Magnet coil of anodised aluminium band, with flexible heat-resistant silicone rubber coating
- Magnet coil protection via a solid austenitic manganese steel baseplate
- Operation via integrated magnet panel or via remote control
- Three power setting levels
- Green display light for signalling of operating condition
- Warning of battery discharge with acoustic and optical signal, with total discharge protection
- Charging via conventional 220 volt socket
- Detailed battery display

Electrical data

Power level	Level 1	Level 2	Level 3
Energy consumption	30 V	39 V	48 V
Watts	420 W	700 W	1.100 W
Battery operating time with 50 % duty cycle*	12 hrs.	9 hrs.	5 hrs.
Magnet current	14 A	18 A	24 A
Insulation class	,C' => 240°C		
Duty cycle	100 %		
Battery	4 x 95 Ah		
Battery charging time	8 hrs.		
Protection rating	IP54		

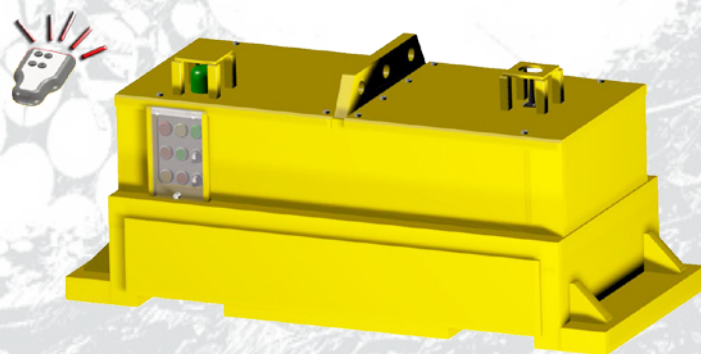


Fig.1 | Battery magnet BMM 50 / 100 (3D view)

Dimensions

* duty cycle

Magnet length A	1.200 mm
Magnet width B	500 mm
Magnet height C	435 mm
Hoisting eye D	30 mm
Hoisting height E	545 mm
Dead weight	830 kg

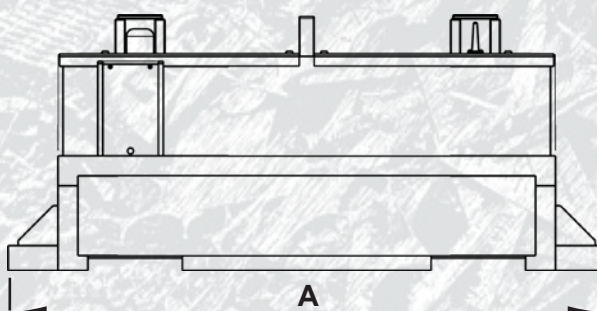


Fig.2 | Technical drawing (frontal view)

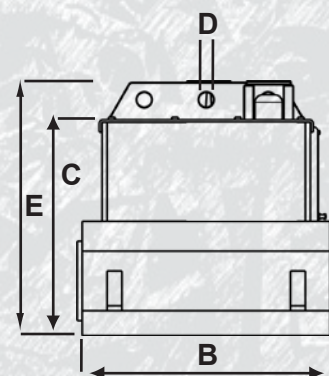


Fig.3 | Technical drawing (side view)

Load values

Pull-off load of slab **	10.000 kg
Weight-bearing load of slab **	5.000 kg
Magnetic field depth	30 mm

** Theoretical values according to DIN-VDE 0580 related to a single level and a solid slab. With the lifting of solid parts, the load bearing capacity of the suspensions / chain suspensions must be considered!

Notes concerning load bearing table:

For guide values for the various bulk materials, mean values measured according to VDE 0580 may be exceeded or fallen below, as the quantity accommodated per magnet hub is strongly influenced by the form, alloying, composition and position of the material and also by the working method of the operator.

The specified power consumption of the magnet is valid for cold state and is intended for measuring of the electrical accessory.

Battery magnet series *BMM Type 50/100*

Suspensions / Attachments

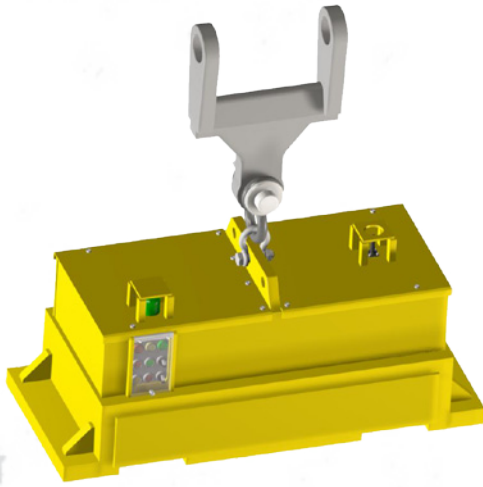


Fig.4 | Standard version: suspension with chain joint

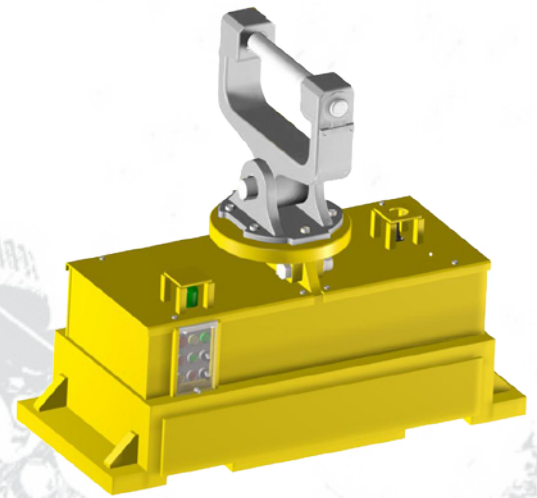


Fig.5 | Gripper suspension with support fork for direct mounting to dipper arm, also with hydraulic operation



Fig.6 | Holding mandril with safety chain, for holding with a multiple-shell gripper



Fig.7 | Suspension with twin chain

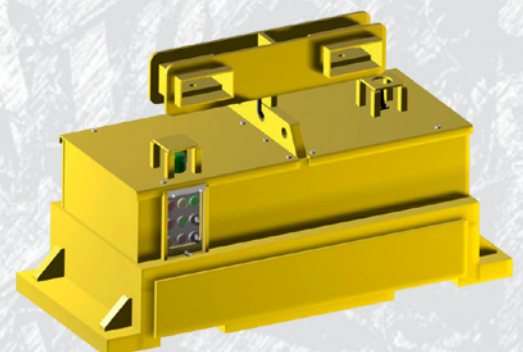


Fig.8 | Forklift suspension