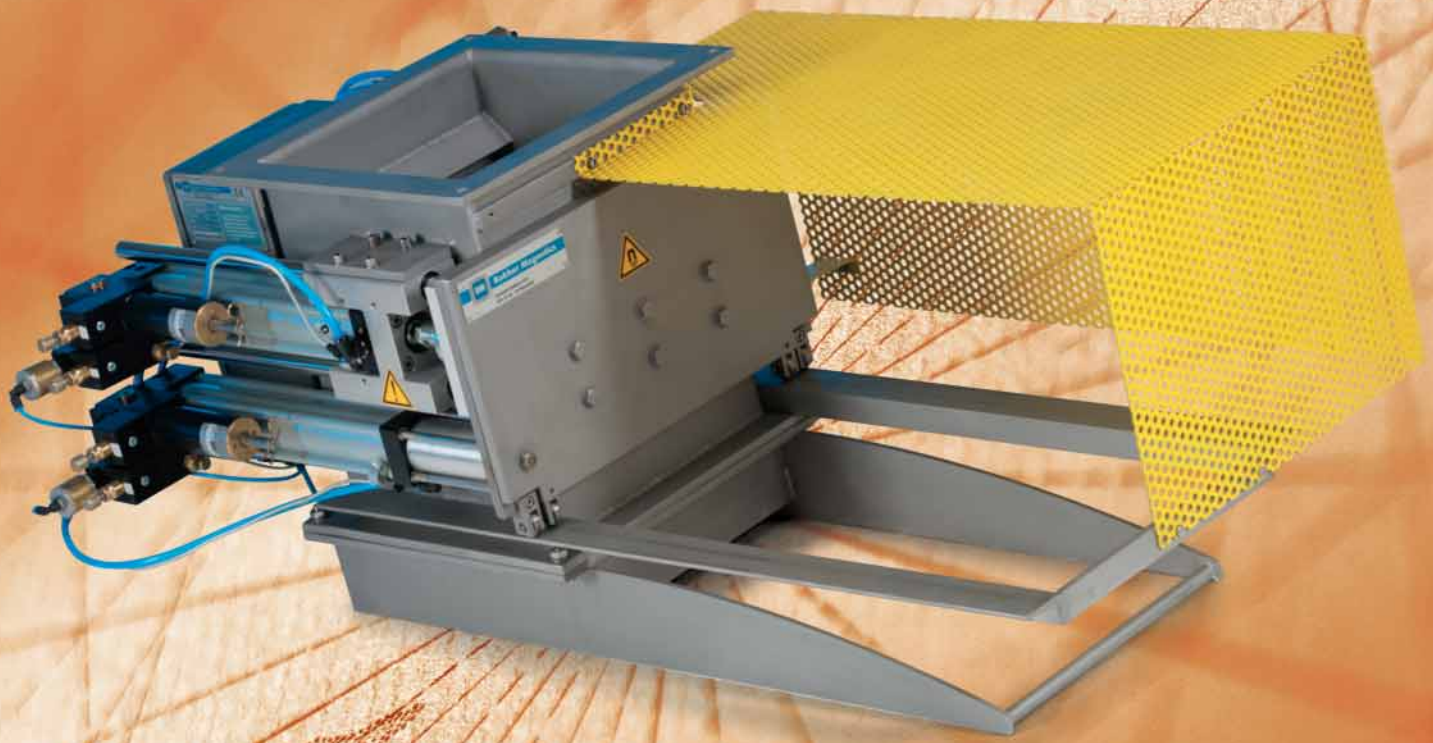
The BM POWER-MAG

Total Solutions in the field of magnetic separation technology

- For powdered materials and granules
- compact dimensions
- extremely powerful magnetic system
- in stainless steel
- no bridging



BM Bakker Magnetics

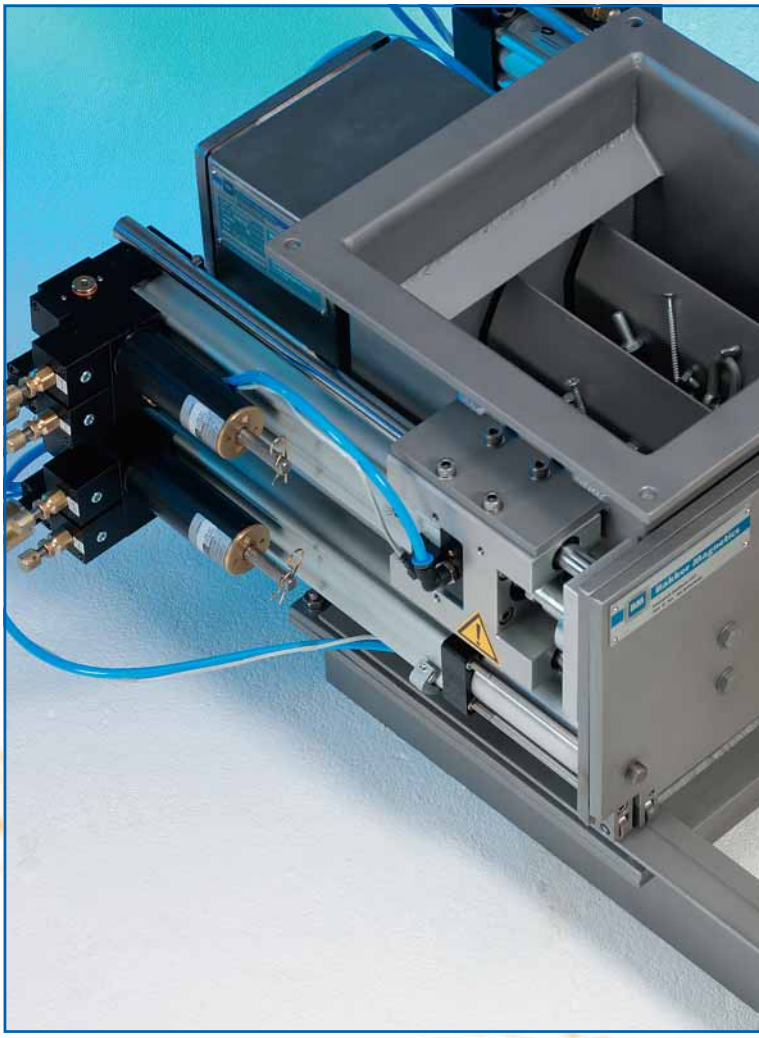
Global Attraction

Introduction

The BM Power-Mag is a revolutionary separation system, within the BM permanent magnetic grids. Its unique design (in particular the positions of the separate magnetic units) ensures an almost negligible risk of bridges being formed. This is why the Power-Mag is highly suitable for effective and selective ferrous separation of powdered materials and granules.

Thorough cleaning with The Power-Mag

The Power-Mag is an extremely powerful ferrous separation system enabling thorough cleaning of various materials. The system is uniquely suitable for use in production processes with very high quality requirements (feed and food industries) and hence complies with the CE, EHEDG and FDA standards. Moreover, each Power-Mag is equipped with a Neodymium magnetic system fully protected by a stainless steel casing. Your choice for this most powerful type of magnet guarantees effective separation of ferrous contamination, even into the µ-range. All components of the material that may come into contact with the product flow are made of stainless steel. Thanks to its compact dimensions, the separation system can be easily built into existing pipeline systems. Inlet and outlet adapters, as well as larger systems, are available upon request.

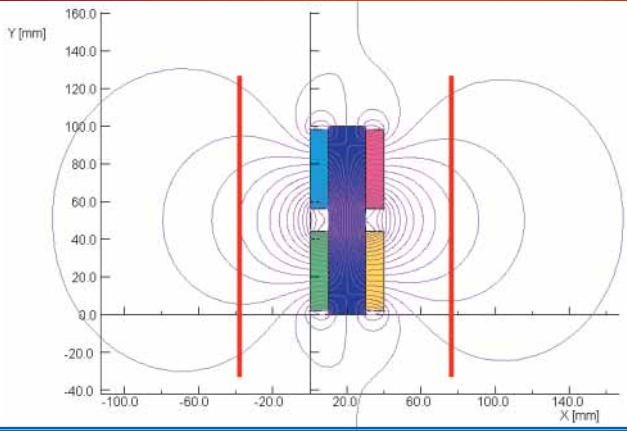


Automatic model

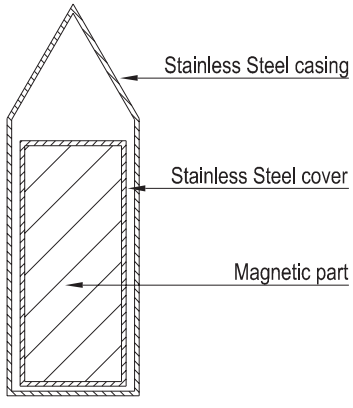
Special configuration

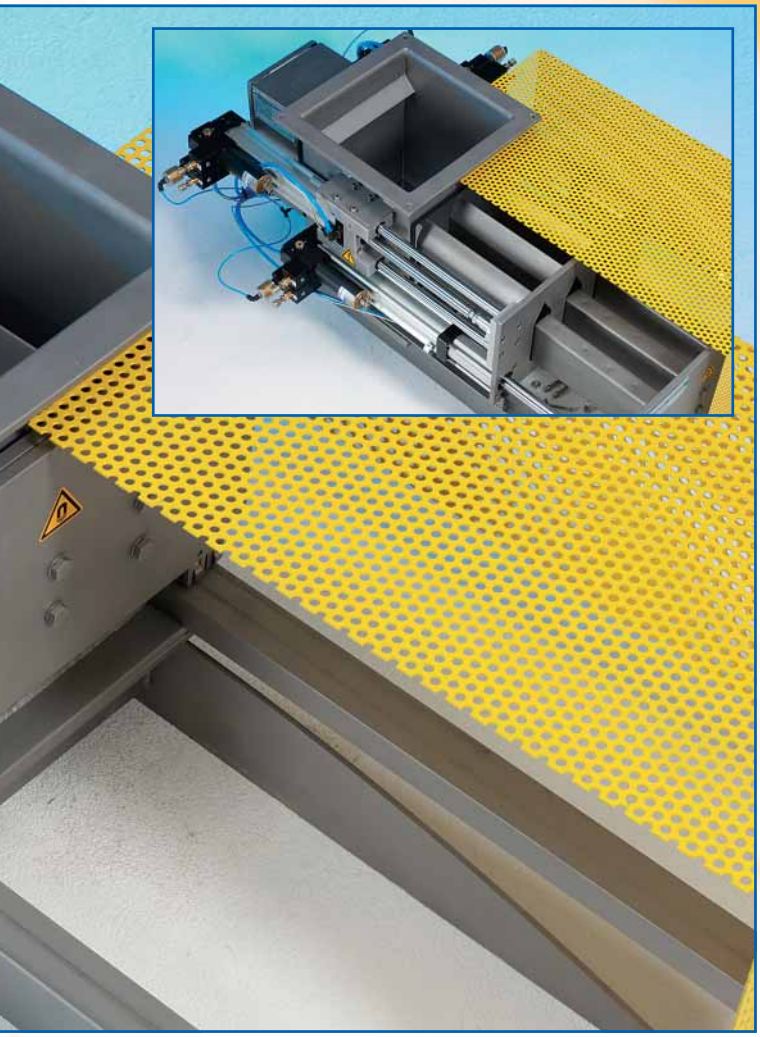
The magnet configuration of the rectangular bars ensures an intensive, deep magnetic field, allows for a larger space between the magnetic bars than with conventional grid systems. The tapering tops of the casing around the magnetic bars minimize the risk of product accumulation.

Magnetic Flux-Plot



Magnetic unit





Filter for liquid materials

In case of liquid materials, a filterhousing can be equipped with the Power-Mag configuration. For further details you can contact our sales department.

Operating principles of the self-cleaning magnet grid

Thanks to its sophisticated design, cleaning is very simple. The figure below gives a detailed picture of the three phases of the cleaning procedure.

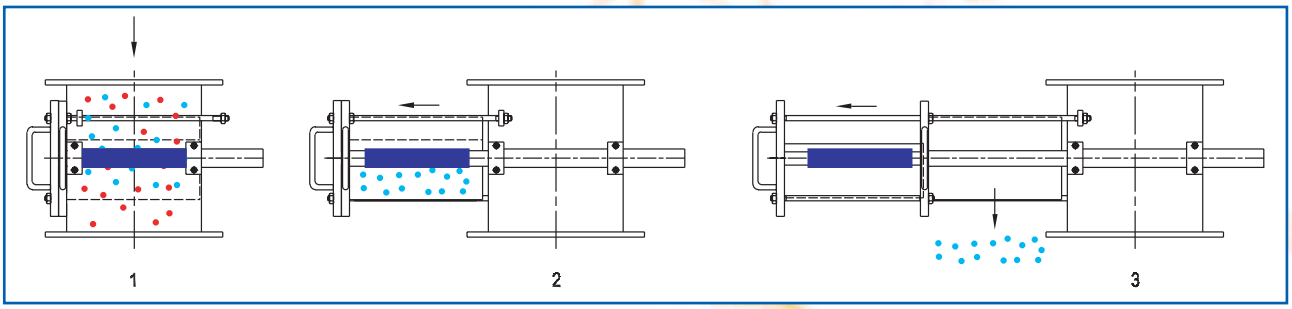
- The material flow passes the magnetic system (1).
- The magnet units, including the stainless steel covering, are manually or automatically operated pushed out of the casing (2).
- For the ferrous contamination to be removed, the magnet units are pushed out of the stainless steel covering (3).
- After the magnet units have been returned to their original position, the system is immediately ready for production (1).

Basic range available

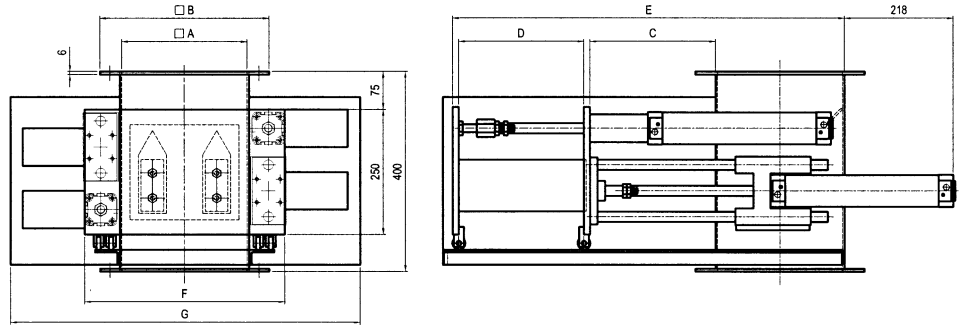
A basic range of five models (semi-automatic) with an open area of ⍁ 100, 150, 250, 300 and 400 mm is available from stock. If you have any specific requirements or wishes, we shall be pleased to make you an offer.

You can choose from three models:

- the semi-automatic model: fast manual cleaning (no photos)
- the automatic model: hydropneumatically driven cleaning cycle, with remote control if required (as shown on photos)
- the automatic model for continuous process (available on request)



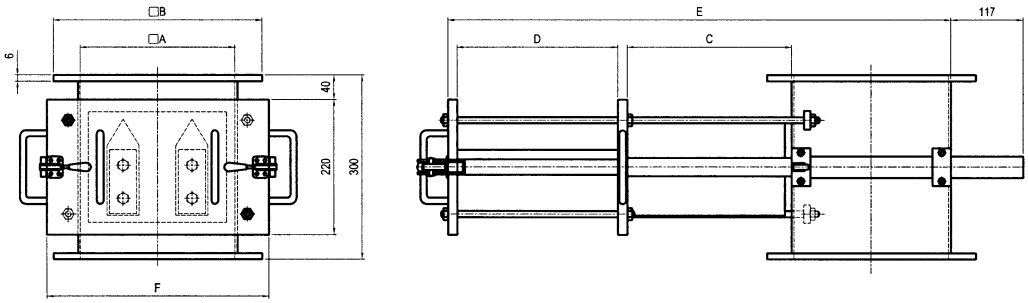
Detail drawing BM Power-Mag (automatic)



Art.no. BM Power-Mag (automatic)	A ⍁	B	C	D	E	F	G	number of magnet units	approximate* throughput m^3/h
	measurements in mm								
BM 25.611/01	100	188	100	100	332	250	550	1	4
BM 25.612/01	150	238	150	150	482	300	600	1	16
BM 25.614/01	250	338	250	250	782	400	700	2	50
BM 25.615/01	300	388	300	300	932	450	750	2	80
BM 25.616/01	400	488	400	400	1232	550	850	3	110

*Applies to dry, granular materials

Detail drawing BM Power-Mag (semi-automatic)



Art.no. BM Power-Mag (semi-automatic)	A ⍁	B	C	D	E	F	number of magnet units	approximate* throughput m^3/h
	measurements in mm							
BM 25.601/01	100	188	115	110	363	210	1	4
BM 25.602/01	150	238	165	160	513	260	1	16
BM 25.604/01	250	338	265	260	813	360	2	50
BM 25.605/01	300	388	315	310	963	410	2	80
BM 25.606/01	400	488	415	410	1263	510	3	110

*Applies to dry, granular materials

Total Solutions in the field of magnetic separation technology

Plate magnets, Tube magnets, Magnetic grids
Cascade magnets, Filter bars, Magnet filters,
Overbelt magnets, Head-roll magnets
Drum magnets, Eddy Current non-ferrous separators

BM Bakker Magnetics

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