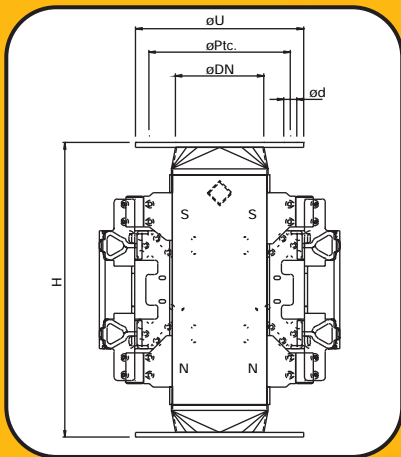


EXTERNAL POLE MAGNETS



EXTERNAL POLE MAGNETS



External pole magnets are designed to trap larger Fe parts. The great advantage of this system is that the product falls through freely without the development of a bridge formation. External pole magnets can be equipped with very strong Neoflux[®] plate magnets and with ferroxdure magnets. By means of the SUS cleansing panel the magnets can be cleaned in no time.

Structure

Two strong magnet plates are mounted on a Stainless Steel housing. The product can stream down unhindered. Fe particles cannot pass through the powerful magnetic field and are drawn by the extractor plate. For cleansing, the door is opened and the magnet's extractor plate is removed. The magnetic field disappears and releases the iron particles. Consequently, these fall down beside the magnet. The external pole magnet is suited for the assembling of freefall tubes as well as pneumatic carrier tubes. This type of magnet is also particularly suitable for slanting/angled tubes.

The external core of the Recycling, Plastics and Cattle Feed Industry models contains ferroxdure magnets, which retrieve coarse iron parts from the downstream of materials. The model for the Pharmaceutical and Food Industry is fitted with Neodymium-Iron-Boron (Neoflux[®])-magnets which capture very fine iron particles. The casing is completely smooth and the welds are finally processed in a way that no bacteria culture medium can possibly spring up. Both designs are frequently utilized in fill tubes or in the lading of silos.

| Type | ϕDN | H | ϕStc | Nr of holes | ϕd | ϕU | Capacity |
|------------|-----------|-----|------------|-------------|----------|----------|-----------------------|
| SPBP010101 | 100 | 400 | 180 | 8x | 18 | 220 | 8m ³ /hr |
| SPBP015101 | 150 | 500 | 240 | 8x | 22 | 285 | 28m ³ /hr |
| SPBP020101 | 200 | 600 | 295 | 8x | 22 | 340 | 70m ³ /hr |
| SPBP025101 | 250 | 700 | 350 | 12x | 22 | 395 | 100m ³ /hr |
| SPBP030101 | 300 | 800 | 400 | 12x | 22 | 445 | 150m ³ /hr |

SELF-CLEANING EXTERNAL POLE MAGNETS

The principle of the self-cleaning external pole magnet is identical to that of the manually cleansing external pole magnet, with the exception that the automatic cleaning process is operated pneumatically. A significant advantage here is that the cleaning process does not interrupt the product downstream. During cleaning the culvert is halved.

Cleaning

A flap is located in the middle of the housing. This flap closes one side of the housing off. The magnet positioned on this side can then be cleaned without inhibiting the production process. The process of cleaning commences by means of a pneumatic operation. The cylinder pushes the magnet with extractor plate aside. While the plate is arrested, the magnet swings onward. The distance between the magnet and the iron increases and the iron finally drops. The magnet and extractor are once again rejoined, closed, and the flap returns to its mid position.

Design

The unit is deliverable in three standard sizes.

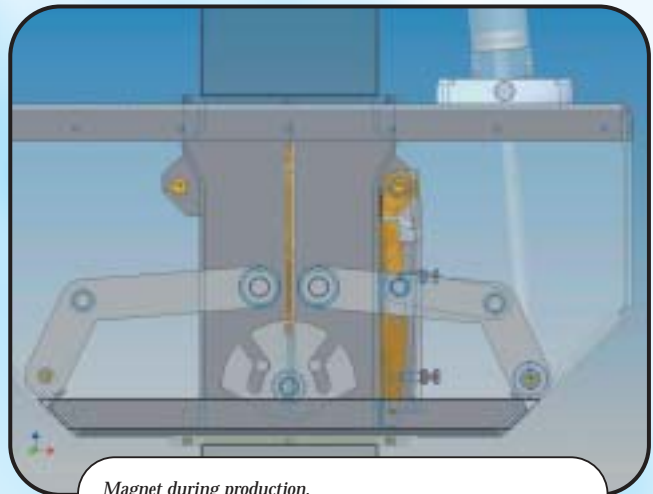
BB 400 in/outlet 300 x 400 mm

BB 800 in/outlet 300 x 800 mm

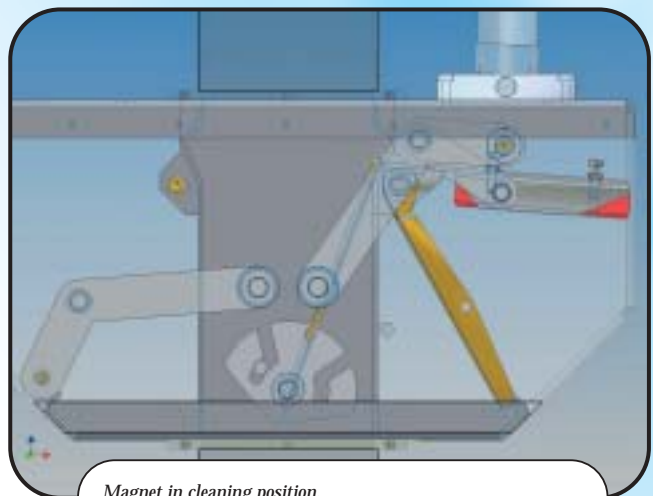
BB1000 in/outlet 300 x 1000 mm

A 6 bar air connection is necessary for the operational process and a 24V DC signal must be given.

Important: Throughout the cleaning process, only half of the culvert is available. Cleaning takes approx. 20 seconds.



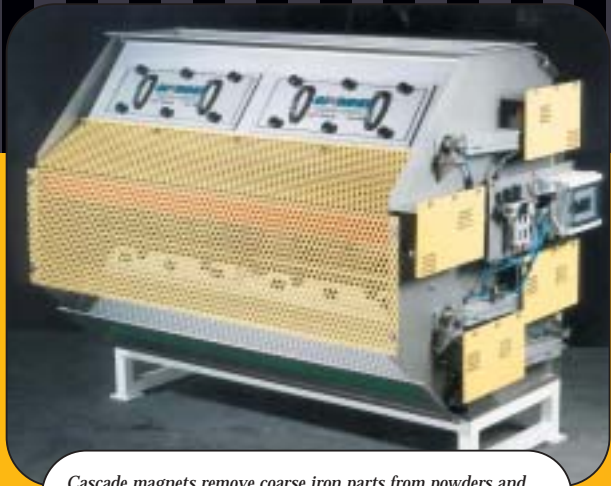
Magnet during production.



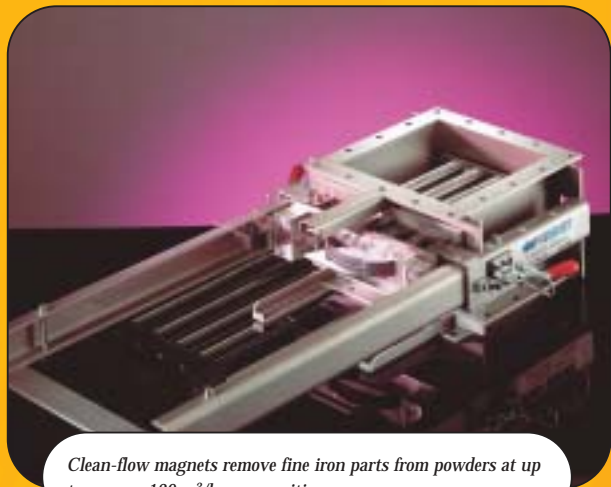
Magnet in cleaning position.



Permanent and electro pipe magnets remove iron parts from powders and granules at up to 550 m³/hour capacities.



Cascade magnets remove coarse iron parts from powders and granules at up to 225 m³/hour capacities.



Clean-flow magnets remove fine iron parts from powders at up to approx. 120 m³/hour capacities.



Metal detectors remove non-ferrous parts from the downstream of various materials at up to 550 m³/hour capacities.

Teamwork between three divisions

Behind the Goudsmit Group stand the divisions where various disciplines are housed. They are ready to supply fitting answers to all your questions about magnets.



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