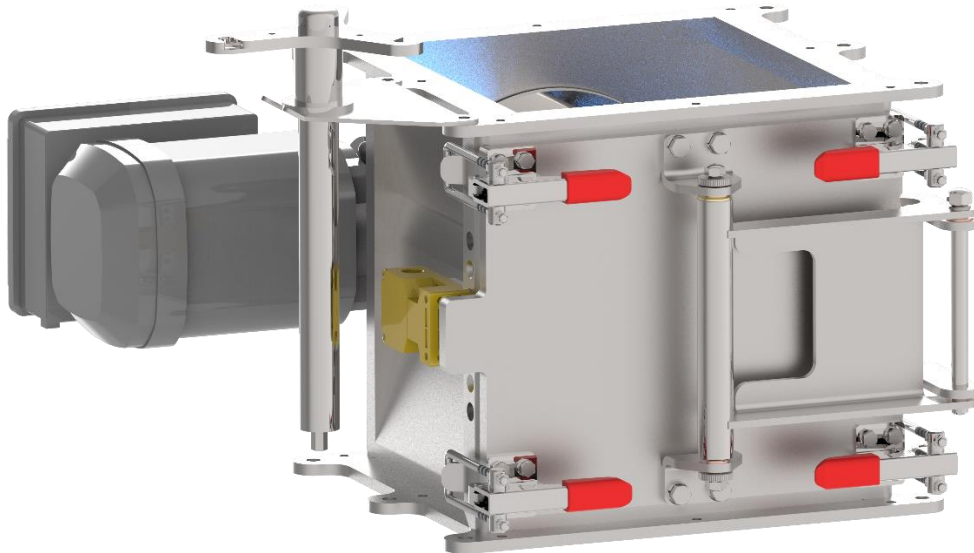


PRODUCT INFORMATION

Rotation magnetic filter device type HLM RO-3-60-SR standard



HLM RO-3-60-SR with flange connection

Area of application

The magnetic filter type HLM RO-3-60-SR is used for separating ferro- and paramagnetic iron impurities from dried, partially flowing product flows with a bridging tendency. The filter is designed for the food, chemical and pharmaceutical industry depending on the requirements of the operator.

Operating principle

The product to be cleaned flows through the magnetic filter with the magnetisable ferro- and paramagnetic iron impurities being attracted by the magnetic rods and sticking to the magnetic rods/cladding tube.

Cleaning

To remove any captured impurities, open magnetic filter, take the magnet unit out of the housing and pull cladding tube component from magnetic rods. Impurities can easily be removed from the non-magnetic cladding tube. After cleaning the cladding tube component, reassemble the rotation magnet filter in reverse order.

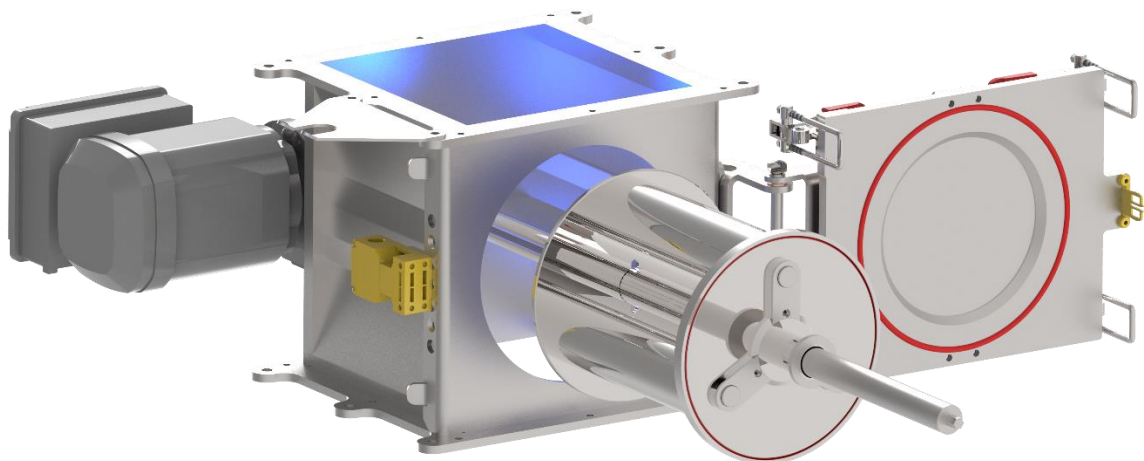
Technical specifications of rotating magnetic filter RO-3-60-SR							
Pipe connectios		Number of magnetic rods	Diameter Magnetic rod	flow density (Gauss) in contact with product depending on temperature range		Material qualities of components in contact with product	
Nominal width mm ²	Throughput volume m ³ /h			Flow density < 80°C	Flow density < 150°C	Magnetic rod	Housing
200	< 20	3	60	11000	On request	1.4571	1.4301 / 1.4571
250	< 25	3	60	11000	On request	1.4571	1.4301 / 1.4571

Magnetic filters in conjunction with transition pieces are compatible with all required connections (flange, Jacobs flange, pipe ends, etc.) as per customer request

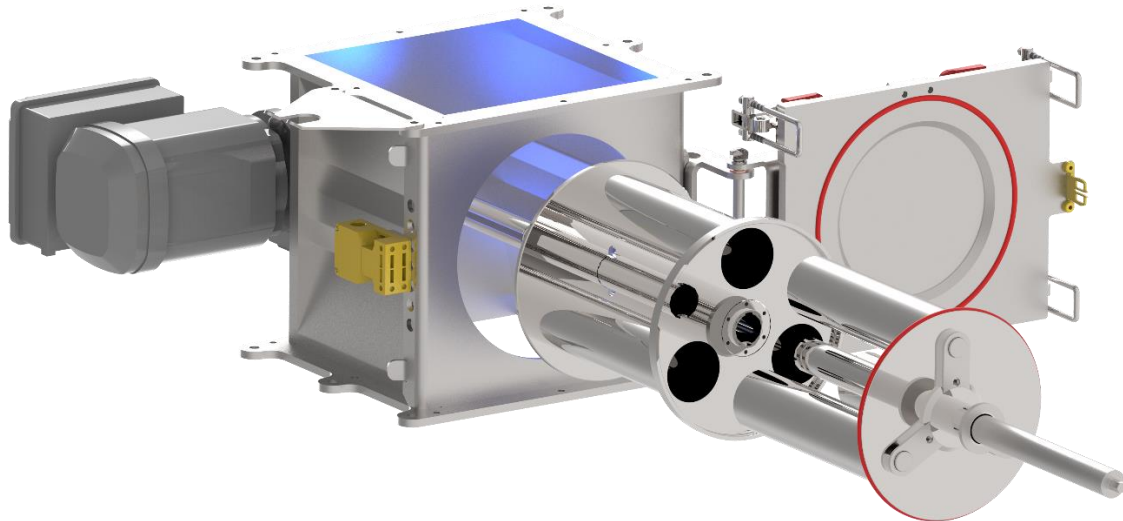
Dimensions of the unit are adapted to flow volume and product properties (material density, bulk weight, etc.). Each magnetic rod is welded / encapsulated watertight in a stainless steel jacket. ATEX as needed

Requirements for place of installation

- Power supply 380V
- Switching current for safety switch 24 V



RO-3-60-SR withdrawn magnet unit with the help of the multi-tool-handle



RO-3-60-SR extracted magnets from the cladding tube component – cleaning process

Technical specification Magnetic rod

Magnet material	rare earth material (NdFeB)
Strength of magnetic field	max. 16.000 Gauss on magnetic rod surface max. 11.000 Gauss measured on cladding tube surface, depending on temperature range
Diameter	60 mm
Capacity	depending on technical design and flow behaviour of the product

Housing data

Material quality	design in stainless steel 1.4301 or 1.4571 (brushed, frosted or polished)
	Seal as per Directive (EC) No. 10/2011, Directive (EC) No. 1935/2004, Directive (EC) No. 2023/2006 (GMP)