



## MAGNETIC GRATE RMM 3-20-25

### product information

#### Intended Use

The magnetic separator, in the form of a magnetic grate, has been designed to purify dry loose materials from ferromagnetic impurities (iron particles, ferrous and ferric oxides, nickel, etc.).



#### Installation

The magnetic grate is installed in the gravitational transport system – the purified material falls vertically free from chutes, hoppers, pipes, etc.).

#### Construction

The magnetic grate consists of the 3 rows of magnetic plungers, made of neodymium magnets, placed in casing tubes of acid-resistant stainless steel.

#### Principle of Operation

Ferromagnetic impurities, contained in purified material, are attracted by the strong magnetic field of the neodymium magnets and secured to the casing tubes in the container. Cleaning the separator of ferromagnetic impurities consists in shifting the magnetic plungers within the casing tubes. Impurities move on the surfaces of the tubes as far as the front drawer flange and gravitationally fall down as a result of the magnetic field loss.

As opposed to existing constructions, the magnetic plungers are always covered in the cleaning process, thanks to that they do not meet with an accidental soilure of ferromagnetic impurities.

#### Separation Efficiency

The separation efficiency of ferromagnetic impurities depends on the size spectrum of the impurity grains, properties of the purified material and the cleaning frequency of the casing tubes.



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## Technical Data

- magnetic separator made of neodymium magnets,
- grate with triple separation (number of magnetic plungers in 3 levels – 7+6+7),
- outside diameter of grate casing tubes – 25 mm,
- maximal value of magnetic flux density on tube surface: – 0,65 T,
- maximal separation capacity – 36 m<sup>3</sup>/h,
- maximal granulation of purified material – 8 mm,
- maximal operating temperature – 80 °C,
- feed intersection of purified material – 300x300 mm,
- semi-automatic cleaning,
- dimensions in operating state (put together grate):
  - length – 1225 mm
  - width – 610 mm
  - height – 250 mm
- dimensions in cleaning state (extended grate):
  - length – 1600 mm
  - width – 610 mm
  - height – 250 mm
- total weight – ca. 52 kg.

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