



**Product name : Magnet block for iron separation 750x630x253 / F with cleanout plate**

## PERFORMANCE PARAMETERS

Manufacturer	Enes Magnesy
Length	750 [mm]
* Magnetic section length	610 [mm]
Width	630 [mm]
Height	253 [mm]
Magnet type	Ferrite
polarity	bieguny wzdłużne
Maximum working temperature	250 °[C]
Housing	stainless steel, AISI 304 / EN 1.4301, approved for contact with food
water-resistant	yes
hunged	yes
Range	max. 480 [mm]
with an easy cleaning	yes
work in systems with the flow of purified material	grawitacyjnym
Weight	510 [kg]

The separator mounted above a belt conveyor flight is used for catching unwanted steel and iron elements from transported substances (food industry, processing of plastics, mineral raw materials, recycling, etc.). Mounted at a certain angle, it may be useful as well as a chute separator. Air-tight housing made of acid-proof steel contains a magnetic system assembled with ferrite magnets. It is a bottom surface of the separator which is magnetically active. Direction of tape feed is along the dimension 750 mm. The separator's top are equipped with six screwed apertures M16, where eyes used for suspension are screwed in. The two separator's longer side-faces are equipped with two screwed apertures M12 with two eyes, where eyes used for suspension during montage on worksite or cleaning are screwed in.

The cleanout plate is made of acid-proof steel and soft aluminium, protecting surface of the separator from damages caused by impacts of caught elements. Two strips of magnetic soft metal sheet built into the plate cause that to hold on to the separator and at the same time can be easily tear out with caught elements, thus streamlining the cleaning.

[On commission we are ready to provide magnetic separators with dimensions chosen by Clients. Magnetic parameters, range of activity and dimensions are adjusted according to Client needs and expectations. Such type of magnetic separator we assemble by rule no longer than 14 days after placing an order.](#)

Magnetic field in the center of surface of the magnetic pole is ~0,155 [T].

Magnetic field on the edge of surface of the magnetic pole (max.) is  $\sim 0,250$  [T].

Magnetic field in the center of surface between the magnetic poles is  $\sim 0,165$  [T].

Magnetic field in the center of surface between the magnetic poles at a distance of: 55 mm from the separator is  $\sim 0,140$  [T], 100 mm from the separator is  $\sim 0,094$  [T], 150 mm from the separator is  $\sim 0,067$  [T], 200 mm from the separator is  $\sim 0,048$  [T], 250 mm from the separator is  $\sim 0,036$  [T], 300 mm from the separator is  $\sim 0,026$  [T], 400 mm from the separator is  $\sim 0,015$  [T].

As an example, range of catching for different caught objects: screw caps M5-M10 - approx.210 mm, hammer 2kg - approx.275 mm, flat spanner 13/17 - approx.460 mm, iron nails - approx.480 mm.

In the magnetic separator sintered ferrite magnets were used. Max. working temperature for the magnetic separators with ferrite magnets is approx. **250°C**.

**Caution! A careless handling can cause serious injury to hands !**



Weight of separator is:  $\sim 500,0$  [kg] +  $\sim 10,2$  [kg] cleanout plate