



Product name : Magnet block for iron separation 450x620x126 / N with cleanout plate

PERFORMANCE PARAMETERS

Manufacturer	Enes Magnesy
Length	450 [mm]
* Magnetic section length	600 [mm]
Width	620 [mm]
Height	126 [mm]
Magnet type	Neodymium
polarity	bieguny wzdłużne
Maximum working temperature	≤ 80 °[C]
Housing	stainless steel, AISI 304 / EN 1.4301, approved for contact with food
water-resistant	yes
Przesypowy	yes
hunged	yes
Range	max. 300 [mm]
with an easy cleaning	yes
work in systems with the flow of purified material	grawitacyjnym
Weight	270 [kg]

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 neodymium magnets. It is a bottom surface of the separator which is magnetically active. Direction of tape feed is along the dimension 450 mm. The separator's top are equipped with four screwed apertures M12, where eyes used for suspension are screwed in. The two separator's longer side-faces are equipped with two screwed apertures M10 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 $\sim 0,270$ [T].

Magnetic field in the center of surface between the magnetic poles is $\sim 0,560$ [T].

Magnetic field in the center of surface between the magnetic poles at a distance of:

20 mm from the separator is $\sim 0,295$ [T],
40 mm from the separator is $\sim 0,189$ [T],
80 mm from the separator is $\sim 0,103$ [T],
120 mm from the separator is $\sim 0,064$ [T],
160 mm from the separator is $\sim 0,042$ [T],
200 mm from the separator is $\sim 0,029$ [T],
240 mm from the separator is $\sim 0,020$ [T].

As an example, range of catching for different caught objects: screw caps M5-M10 - approx. 175 mm, hammers 0,7kg-2kg - approx. 200 mm, flat spanners - approx. 300 mm, iron nails (2-6 inch.) - approx. 300 mm.

In the magnetic separator sintered NdFeB magnets were used. Max. working temperature for the magnetic separators with NdFeB magnets is approx. **80°C**.

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



Weight of separator is: $\sim 260,0$ [kg]