Product name : Magnet block for iron separation 505X530X100 / F with cleanout plate

PERFORMANCE PARAMETERS

Manufacturer	Enes Magnesy
Length	505 [mm]
* Magnetic section length	500 [mm]
Width	530 [mm]
Height	100 [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
Przesypowy	yes
hunged	yes
Range	max. 270 [mm]
with an easy cleaning	yes
work in systems with the flow of purified material	grawitacyjnym
Weight	128 [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 ferrite magnets. It is a bottom surface of the separator which is magnetically active. The separator's four corners are equipped with screwed apertures M10, where eyes used for suspension are screwed in.

The cleanout plate is made of acid-proof steel and soft aluminium, protecting surfacfe of the separator from damages caused by impacts of catched 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 catched 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.

Magnetic field in the center of surface of the magnetic pole is ~0,110 [T].

Magnetic field on the edge of surface of the magnetic pole (max.) is ~0,200 [T].

Magnetic field in the center of surface between the magnetic poles is ~0,120 [T].

Magnetic field in the center of surface between the magnetic poles at a distance of: 20 mm from the separator is ~0,114 [T], 55 mm from the separator is ~0,080 [T], 100 mm from the separator is ~0,045 [T], 150 mm from the separator is ~0,030 [T], 200 mm from the separator is ~0,020 [T], 220 mm from the separator is ~0,017 [T].

As an example, range of catching for different caught objects: cylinder 180g - approx. 100 mm, screw caps M5-M10 - approx. 110 mm, hammer 2kg-5kg - approx. 145 mm, flat spanner - approx. 220 mm, iron nails - approx. 270 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: ~ 105,0 [kg]