

MAGNETIC SEPARATION

EDDY CURRENT SEPARATOR

TECHNICAL DATA SHEET

IDGSM metal separators are designed for the selection and elimination of non-ferrous metals by the eddy currents.

OPERATION. Eddy Current separation system consists of a conveyor belt and a rotor with a magnetic circuit built in 14 or 24 poles; to adapt to the grain-size distribution of the product. All within a steel case and covered by a counter drum. Being separated, the drum and the rotor inductor, allows operation at different frequencies. When the rotor turns at high speed it generates an electric current in the conductive metals (non-ferrous), this inductive voltage produces a magnetic field opposite to the rotor, causing the non-ferrous metals being repelled. The rejected metal falls into the hopper by gravity, being separated from the other material.

APPLICATIONS. Eddy Current separators are indicated for the separation of non-ferrous metals: aluminum, brass, copper, etc., from inert materials. Used by recyclers in various sectors, production of semi-manufactured and other processes.

Typical examples:

- Separation of nonferrous metals in: car crushers, foundry slag, foundry sand, debris in domestic and industrial recycling companies, recycling plants.
- The selection of soda cans in a stream of dry recycling.
- Withdrawal of non-ferrous metals from crushed wood or glass.
- Withdrawal of aluminum components in recycling plastic frames.

GENERAL. All metal separators supplied by IDEMAG are manufactured to have optimal performance and maximum operational life.

IDGSM systems have been developed with concentric rotors for a high separation capacity of the whole drum surface, allowing the particles released during the "free fall" also to be separated.

To improve the capacity the separator is manufactured with wear resistant conveyor belts, made in high quality PVC. These belts, extremely thin, are specifically designed to minimize the distance between the rotor and the material to be separated. For the same reason, the rotor housing has also been made "as thin as possible", without lowering the mechanical power.

Additionally, to improve Eddy Current separator performance, our company can supply matching vibrating tables.

MAGNETIC SEPARATION

EDDY CURRENT SEPARATOR

TECHNICAL DATA SHEET

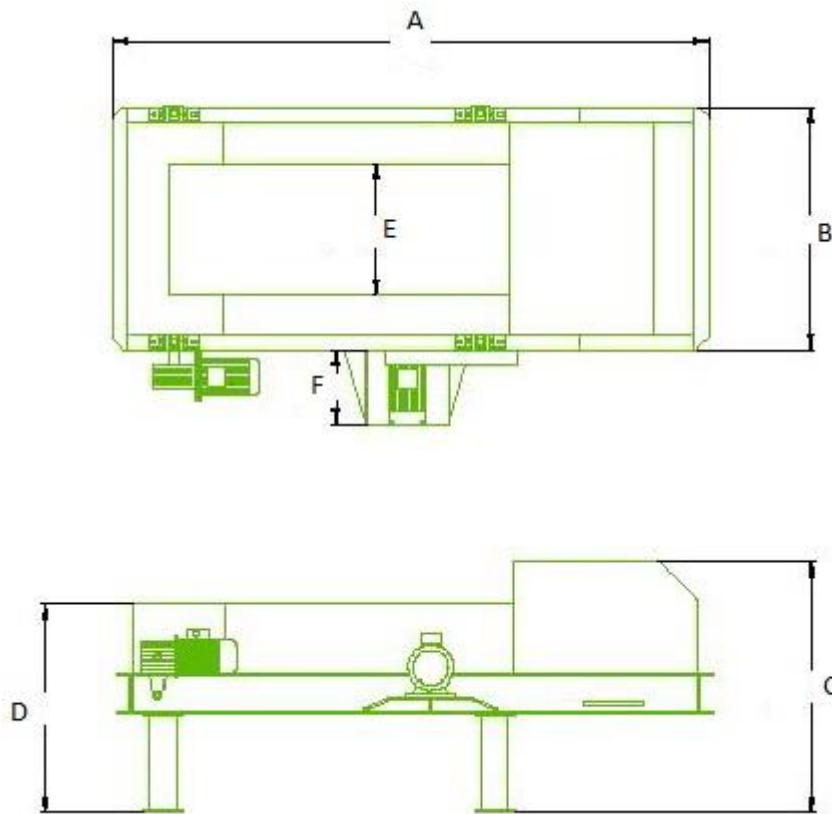


Table of measures

Code	A mm	B mm	C mm	D mm	E mm	F mm
IDGSM500	3160	1090	1340	1110	500	400
IDGSM600	3160	1190	1340	1110	600	400
IDGSM700	3160	1290	1340	1110	700	400
IDGSM1000	3160	1590	1340	1110	1000	400
IDGSM1100	3160	1690	1340	1110	1100	400
IDGSM1200	3160	1790	1340	1110	1200	400
IDGSM1500	3160	2090	1340	1110	1500	400
IDGSM2000	3160	2590	1340	1110	2000	400