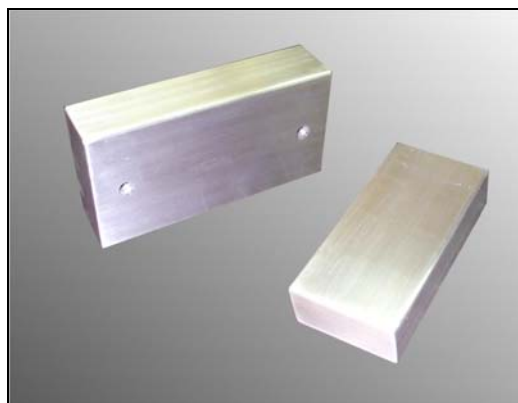




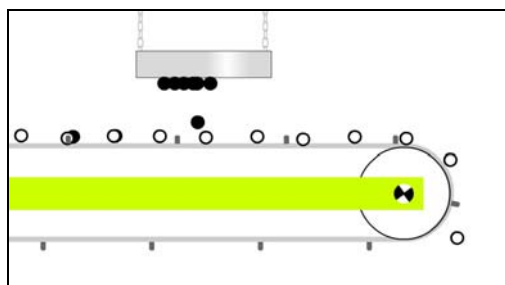
Plate magnet PM (permanent-magnetic)



Version: PMN (underflow version)



Version: PNM



Operation sequence: PM mounted above conveyor

■ Application

Plate magnets are used for the separation of tramp iron to protect crushers, screens and other plant machinery. These types of magnetic separators generate a deep magnetic flux field and are generally installed above conveying systems or underneath chutes. By the wide range of standard sizes the plate magnets can be equipped to most applications. But S+S also supplies customized unit sizes to fit exact into existing process lines. All types of plate magnets are supplied with tapped wholes at the rear side for installation and adjustment.

■ Performance characteristics

Plate Magnet PMF (Ferrite version):

These types are equipped with strong ferrite magnets, which generate a strong and deep magnetic flux field. The version PMF is housed in a wear-resistant Stainless Steel housing (material 304) with a mild steel back plate.

Plate Magnet PMN (Neodymium version):

Plate magnets with rare earth neodymium magnets (NdFeB) show a much higher magnetic flux field and are used e. g. for the separation of even small ferrous contaminations. The energy product of these types is more than ten times higher than conventional ferrite material.

In order to make cleaning of plate magnets easier S+S can supply as an option manual or pneumatic operated cleaning relief's. Such a facility is recommended when the magnet is installed in positions where cleaning is labour intensive.

Plate Magnet PMTEX (Textile Industry):

This type is specially designed for applications in the textile industry. The magnets are available in lengths up to 6 meters, and a separate carrier profile ensures that the system can be installed very close to the product without bending.