

SEPARATORS OF MAGNETIC METALS

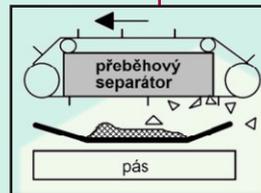
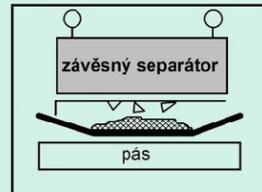
Separators of magnetic metals are designed for removal of metals from loose of piece materials. It works on the principle of a permanent magnet that replaced the formerly used electromagnet.

As ferrites there may be used conventional materials or magnets made of special earths with high efficiency. The strength of the magnet shall be considered with regards to the height of the layer of material and technological need of separation.

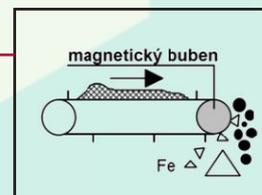
Basic principles of separation are shown in the following illustrations:

A block magnet is suitable in places with free access of the operation personnel and minimum amount of magnetic metals.

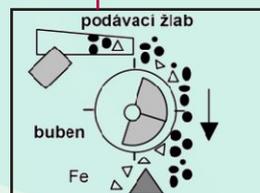
The operation personnel shall clean the magnet manually from time to time. The magnet may be completed with a refractor (stainless steel metal sheet on the magnet bottom) that removes all the caught metal particles from the magnet after sliding it out of the axis.



Cleaning of the magnet is solved on an overbelt principle, where the magnet is placed inside the conveyor, whose belt provides moving of metals out of the transport routes.



In case of a high layer of the material, separation can be extended by a magnetic drum at the end of the conveyor.



The drum separator can be used for material with small particle size (5 cm max.), where material is poured using a trough to a stainless steel drum that rotates around a fixed magnet inside the drum. The magnet catches magnetic metals and removes them behind a separating baffle.

The width of the separator shall be chosen with regards to the width of the transport route, i.e. the transport belt, vibration trough or chute.