

Magnetic systems for industrial applications

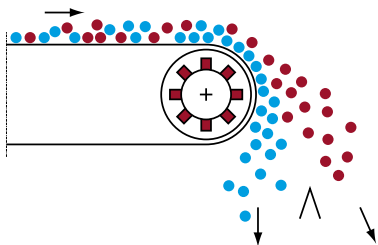


Bakker Magnetics

‘Eddy-Current’ non-ferrous separators



“Eddy-Current” separators are designed for separating non-ferrous metals out of different materials and or waste products.



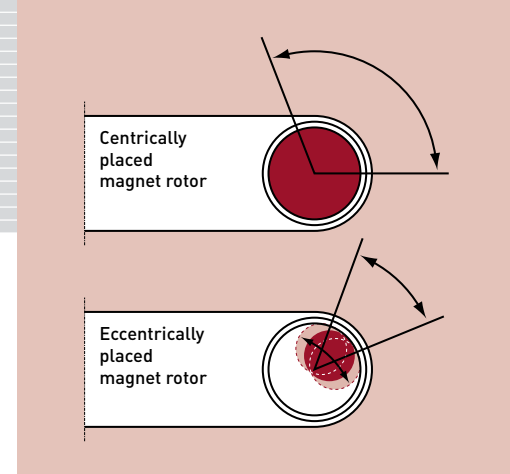
- The principle has been discovered by the French physicist Jean B.L. Foucault.
- The first apparatus using the Eddy-Current technique was introduced by Edison.
- Since the early 90's Bakker Magnetics is a leading manufacturer.
- New; the 2009 execution according to the latest technical developments.



Centre of **magnetic** knowledge...

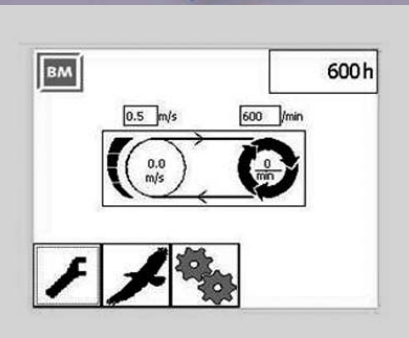
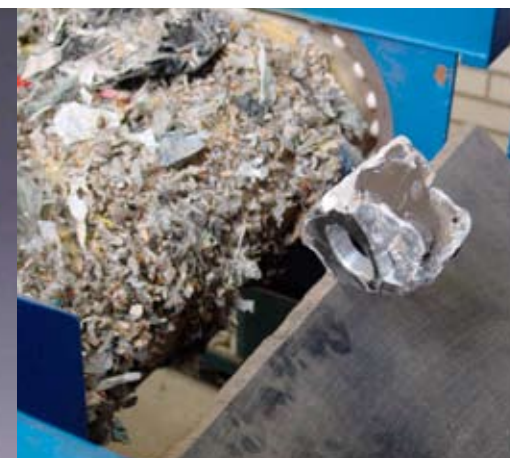
Induction rotor

The magnet system of the induction rotor is composed of the strongest magnets currently available: Neodymium quality BM 42. In order to realise the narrowest possible air gap, each individual magnet has a radius. The pole pairs have been optimised using software for computer simulation, resulting in a very strong alternating magnet field. These properties have led to a very important increase in the effectiveness of Bakker Magnetics Non-ferrous separators. Higher machine speeds are possible if the magnet system inside the induction rotor is centred, allowing a significantly larger effective range of centric magnet system compared to an eccentric positioning. This has a positive effect on the system's capacity, also the settings of the system do not have to be modified, even if the composition of the flow of materials changes. Great attention has been paid to the durability and reliable functioning of the induction rotor and the reverse drum. The reverse drum is made of glass-fibre reinforced polyester, which is covered with a ceramic coating. The drum is to a great extent heat resistant.



Advantage of a centricly placed magnet rotor compared to an eccentricly placed system:

- Non-ferrous particles are liable to remain in the magnetic field for a longer time; this larger working range results in a better grade / recovery ratio.
- As a result of the narrow air gap, the separation efficiency applies especially to smaller particles.
- The rotor position does not need to be adjusted.



Simple operating through buttons and symbols

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