



RELIABILITY



HIGH DEGREE OF AUTOMATION



VERSATILE AND MODULAR



LOW OPERATING COSTS



LOW ENVIRONMENTAL IMPACT



— CUSTOM

# ELECTRIC MOTORS TREATMENT PLANT

## TURNKEY



SMART SOLUTIONS TO PRESERVE THE ENVIRONMENT

TAILOR-MADE SOLUTIONS



The FOR REC system for the treatment of electric motors provides treatment aimed at the recovery of iron, copper and aluminum, thanks to the performance of the FOR REC model Z15-1000 or Z16-1500 hammer mill and a proven system for conveying, separating and enhancing the materials that compose the treated waste.

The line can also provide two shredding stages in succession useful for:

1. extract all the copper without losing other metals such as molten aluminum (which easily becomes dust)
2. have a high quality of steel (which can be up to 70%).

The extracted copper can be further processed, in a refining plant.



## Z15/Z16

OUTPUT

### HAMMERS MILL

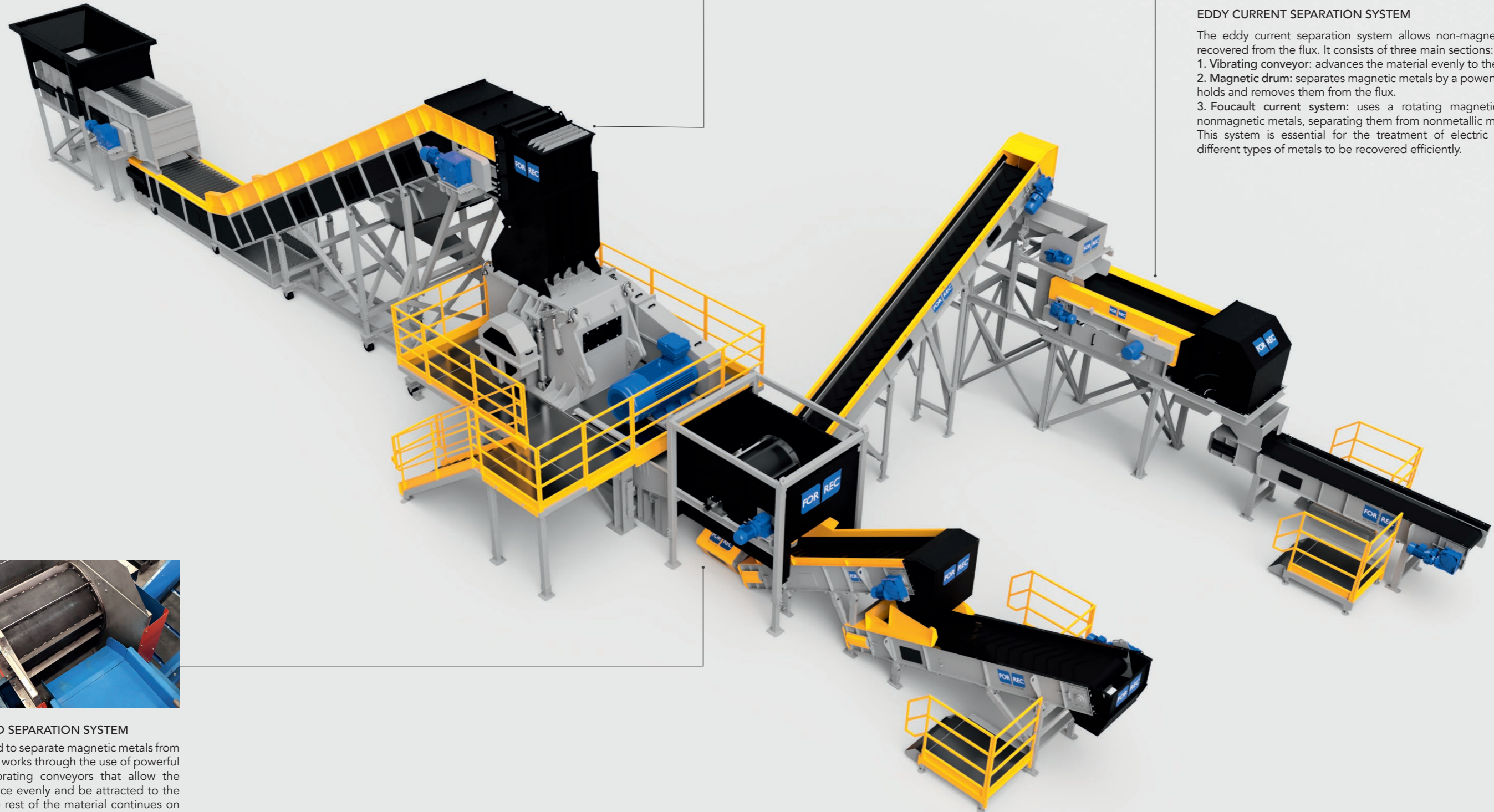
FOR REC hammers mills are characterized by a sturdy structure and extreme speed of access to components subject to wear thanks to a system of hydraulic openings and lifting of the upper shell. In the treatment process of electric motors, they allow the particle size to be reduced below 70 mm, facilitating subsequent automatic separation steps.



### EDDY CURRENT SEPARATION SYSTEM

The eddy current separation system allows non-magnetic metals to be recovered from the flux. It consists of three main sections:

1. **Vibrating conveyor:** advances the material evenly to the next stages.
  2. **Magnetic drum:** separates magnetic metals by a powerful magnet, which holds and removes them from the flux.
  3. **Foucault current system:** uses a rotating magnetic field to reject nonmagnetic metals, separating them from nonmetallic materials.
- This system is essential for the treatment of electric motors, allowing different types of metals to be recovered efficiently.



### DETECTION AND SEPARATION SYSTEM

The system is used to separate magnetic metals from other materials. It works through the use of powerful magnets and vibrating conveyors that allow the material to advance evenly and be attracted to the magnet while the rest of the material continues on its flow path.



All systems made by FOR REC are modular and implementable according to specific customer needs.



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