

DESCRIPTION

The Dings Eddy Current Separator is ideal for recovering nonferrous metals from commingled recyclables, plastics, glass, material processed at composting or waste-to-energy facilities, automotive shredder residue, and other processed materials and minerals. The separator can be specified for a new facility or added to an existing system. The unit is generally mounted inline to the material flow.

The Dings Eddy Current Separator will provide:

- Income from the sale of the recovered nonferrous metals.
- Save money by reducing the transportation and landfill costs by eliminating the weight of the nonferrous metals from the material being hauled to the landfill.
- Command a better price with upgraded nonferrous.
- Improve the quality of your nonmetallic material by removing the contaminating nonferrous metals.
- Save on labor costs by reducing the man-hours required for manual sorting.

SPECIFICATIONS

Two Pulley Eddy Current Separator:

1. High strength permanent Rare Earth magnets generate strongest and deepest magnetic field.
2. Low profile 2 pulley design minimizes space while maximizing performance.
3. Triple layer rotor design for added protection and extended service life:
 - a. High temperature filament wound shell
 - b. Ceramic tile bounded to shell in staggered pattern
 - c. Patented 11 gauge, 304 stainless steel outer enclosure
4. Ertalylte® heads on rotor assembly provide superior dimensional stability.
5. Self-aligning, oversized, heavy-duty rotor bearings
6. High strength nitrile belt with thermowelded PVC "T" cleats and wide walls keeps material moving freely.

7. 11 gauge, 304 stainless steel cowling with easily adjustable and replaceable neoprene side skirting prevents material from being entrapped under belt.
8. Heavy duty structural steel I-beam frame and support structure.
9. Conveyor belt drive: _____ HP gear motor, 230-460/3/60 TEFC.
10. Rotor V-belt drive: _____ HP motor, fully guarded for safety, 230-460/3/60 TEFC.
11. Belt speed fixed at 400 FPM for best separation efficiency.
12. Engineered, designed and fabricated in the USA.

Splitter Assembly:

1. 7 gauge mild steel, all welded construction protects against damage and extends service life.
2. Two discharge chutes standard – one for non-metallic material and one for non-ferrous metals. Three chute and other special designs also available.
3. Clear Lexan® access doors on both sides of housing allow for easy inspection and maintenance.
4. Adjustable 7 gauge, 304 stainless steel splitter panel bolts into place to provide optimum separation. Optional splitter extension available.
5. Angle flanges on bottom of discharge chutes sized to fit customer's requirements.
6. Custom housing designs available to meet special separation or dimensional requirements.

Remote Control Panel:

1. Wall mounted, NEMA 4 enclosure standard. Other enclosures available if required.
2. Control panel includes:
 - a. Motor starters for conveyor and rotor motors on fixed speed models
 - b. Prewired start/stop buttons provide correct start up and shut down procedures for safe operation
 - c. Emergency stop button
 - d. Pilot lights indicate status of belt and rotor

- e. Function selector switch for either belt only or belt and rotor operation
 - i. Belt only operation allows for safe and easy adjustment of splitter assembly
 - ii. Belt and rotor operation for normal production

OPTIONS:

1. Custom support frames
2. Variable speed belt drive (100 – 450 FPM)
3. Non-standard belt and rotor motors
4. Custom splitter assemblies
5. Custom control panel and enclosure