INSTALLATION MANUAL
MAGNETIC DRUM SEPARATOR - DRUM ONLY

TRAMP METAL GROUP

TOLL FREE: 888.582.0821

P.O. #: Order #: Part #:

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Installation Guidelines

The Drum Separator provides automatic separation of ferrous and non-ferrous material. The unit comes ready to install into customers locking blocks.

The unit must be installed to allow sufficient space to perform preventative maintenance and allow for collection and removal of the separated material; ferrous and non-ferrous.

IMI Drum Separators are ideal for automatic ferrous particle capture in processing systems. The drum rotates around a stationary powerful permanent magnetic field. Ferrous particles in the material being processed are captured and held against the rotating drum surface by the magnetic field. Non-ferrous material falls free, while the ferrous material is released when it rotates out of the magnetic field.

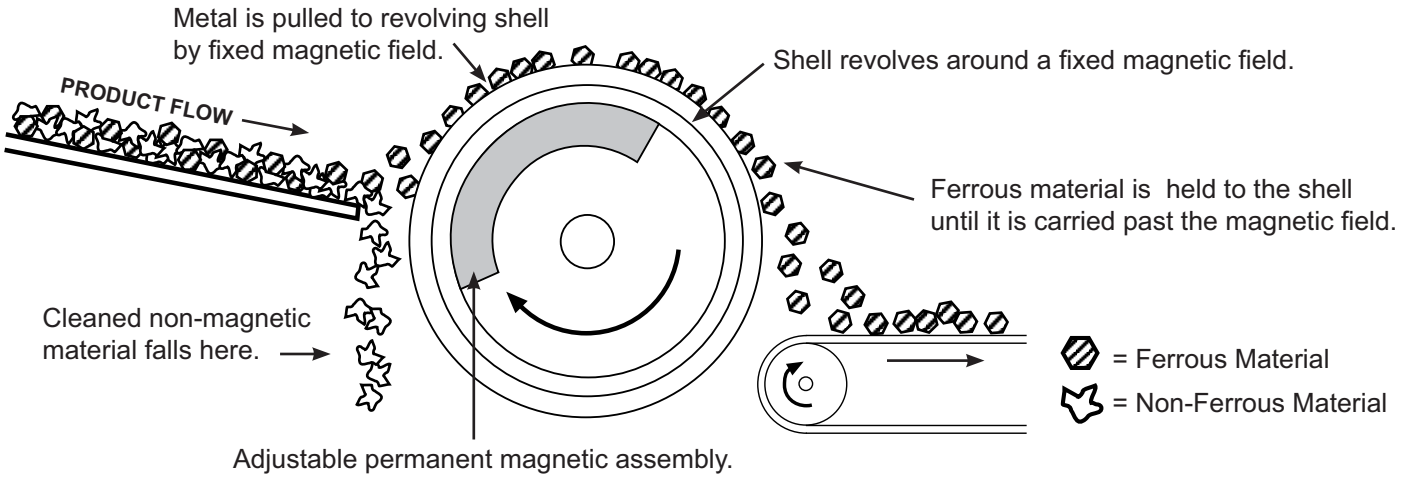
The drum shell is made of stainless steel. The shell is covered with replaceable three piece manganese wear plate.

The drum separator has spherical roller bearings on both ends. The bearings are exterior to the drum shell. Grease bearings using Zerk fitting on the side of the bearing hub. The greasing interval is determined by the operating environment.

The drum also comes with two 5-7/8” bore locking collars. These are to be installed just outside the bearing housing on journaled portion of the shaft 5-7/8” Diameter.

A flat has been milled on one end of the fixed shaft. The flat must be at the 12 O’clock position for correct magnet placement. An arrow is engraved on one end of the shaft to indicate the center of the magnet. Both bearing hubs are provided with bolt patterns for connection of drive components.

Operating Illustration



Troubleshooting

METAL MATERIAL MIXED WITH NON-FERROUS MATERIAL:

1. Make sure magnet is adjusted with milled flat on shaft indicating magnet alignment. Milled flat should be at the 12 O'clock position.
2. Make sure material is evenly spread across the entire face of the drum and in as thin a burden as possible.

METAL MATERIAL MIXED WITH NON-FERROUS MATERIAL:

1. Inspect drum outer shell for visible dents or damage. If none, proceed to step #2.
2. Separate motor and drive from drum.
3. Engage motor to see if drive will turn freely. If yes, go to step #4. If not, service motor or drive.
4. With drive separated from drum, rotate drum by hand to check freedom of rotation. If drum turns hard check the bearings.
5. Please call factory with any questions at 1-888-582-0821

Comments or Concerns?

We believe Industrial Magnetics, Inc. offers the finest Drum Separators available today. Great pride has gone into the design and manufacture of this unit. Any comments or concerns should be directed to our Customer Service Department at 1-888-582-0821. **We appreciate the opportunity of serving you!**

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