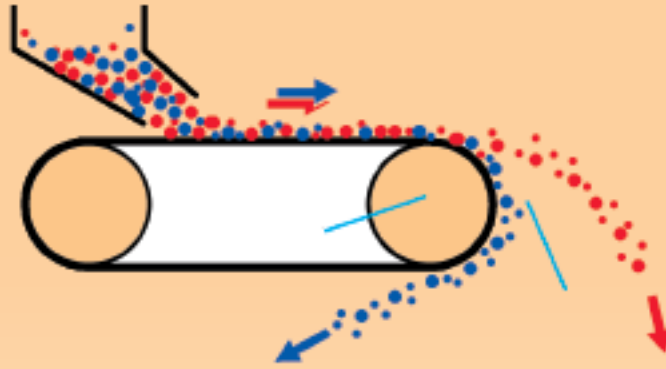




Features	Benefits
Technically advanced, high magnetic intensity, dry magnetic separator	Improved separation performance, giving: <ul style="list-style-type: none"> ~ lower Fe₂O₃ contamination ~ lower rejects ~ higher product quality and value ~ increased productivity from finite mineral reserves by recovering material previously unsaleable owing to high contamination levels ~ overall increase in market value and share
Highest grade, high stability Rare Earth magnet material used	Reliable and consistent separation over a long period of time
Adjustable feed rates, roll speeds and splitter position	<ul style="list-style-type: none"> ~ Variable grade and recovery to suit current market demand ~ Maximising separation performance
Permanent magnet	Low energy consumption relative to electro/mains powered systems, eg Induced Magnetic Rolls
Choice of three diameter models	Ability to handle low and high production capacities with a small number of units
Quick belt change design	Reduction in production stoppage time
Minimal maintenance	Reduction in downtime
Ease of operation	Reducing man hours required during operation
Modular design	Stages can be added following initial supply giving utmost flexibility
Vertical tower design	Reduction in floor space requirements
Dust-proof housing	Reduction in airborne fines
Complete systems: low powered, ferrite separators also available to scalp strongly magnetic materials prior to separation on RE Roll	Prevention of damage to high powered RE stages and enhancing high intensity separation
Many RE Roll units successfully installed worldwide	Proven technology



Principle of Operation



- Simple pulley and belt system within an outer framework.
- Material is fed onto the belt by a chute or vibratory feeder.
- Belt carries material into the magnetic field of the head pulley.
- Rotating magnet attracts weakly magnetic particles.
- Trajectory of attracted particles changes, enabling their separation from non-magnetic material by careful positioning of a partition (splitter).

Top: 4 off Model RE-300-40-3

Left: Lab RE-75 in action

Above and right: RE-75 Roll Cantilever style with quick belt change

Below: Eriez Laboratory's Dry Test area

Models and Capabilities

- Three models - 75mm, 100mm and 300mm diameter - to handle different product types and varying throughputs.

Higher throughputs can be achieved on the larger diameter rolls at approximately the ratios shown opposite:

RE75	1
RE100	1.2
RE300	1.5

Actual capacities can only be calculated once tests have been completed in the Eriez laboratory and will vary according to material composition.

- Magnetic field peak of 21,000 Gauss on the surface of the Rolls.
- Flexibility in width of models to cope with variations in particle size and capacity.
- Typical particle size of feed in the range of 75 μ to 13mm.

Tests conducted within the fully equipped, state-of-the-art laboratory at Eriez Magnetics European headquarters will determine the feasibility of processing material outside the above ranges.

