

MD – Spiral Separators



Equipment Range

Designed and manufactured by Mineral Technologies, MD spirals are the leading spiral of choice for fine mineral separation.

- MG Series - for feed material generally containing up to 25% heavy mineral (up to 40% in some applications)
- HG Series - for high grade feed material generally greater than 25% and as high as 90% heavy mineral
- VHG Model - for feeds with very high levels of heavy mineral
- FM Series - for valuable heavy mineral particles in the range of 30 to 150 microns
- WW Series - utilises wash water addition for enhanced grade control in specific applications (e.g. iron ore)
- HC Series - super-high capacity spirals specifically designed for more economical and compact plants. The facility to add wash-water is available on some models.

Features

- High quality, polyurethane lined fibreglass reinforced spirals
- Replaceable modular cast polyurethane feed boxes for positive feedline connection and longer spiral service life
- Splitters designed for ease of operation regardless of spiral size and number of splitters
- Concentrate diverters to improve concentrate grade
- Repulping devices to further enhance recovery of product

- Cast polyurethane product collector boxes ensuring long life and nonsplash collection
- Integrated engaged launder systems
- Accurate top or bottom entry feed distribution systems for improved recoveries
- Simplicity of process circuits for reduced capital cost

Benefits

- Spiral configurations in single, twin, triple and quad troughs per column to suit capacity requirements
- Spiral banks up to 48 starts to maximise capacity and minimise floor space requirements
- Low capital cost installations
- Minimal maintenance requirements
- Low operating cost and long operating life
- Consistently high separation efficiency with minimal operator attention
- Comprehensive process engineering support

Applications

- Rutile, ilmenite and zircon concentration
- Iron ore, chromite and manganese beneficiation
- Tin, tantalum and tungsten ore concentration
- Gold, native copper and base metal recovery
- Silica sands processing
- Pumice sand separation
- Titano-magnetite concentration
- Garnet, kyanite, sillimanite and andalusite recovery

