



# Fine Gravity Separation

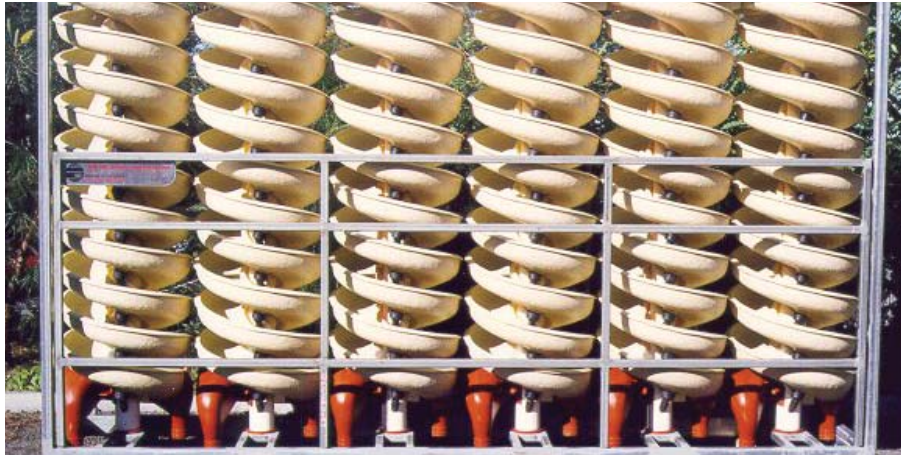
**CPG Resources – Mineral Technologies**

*Leaders in Mineral Separation*



# Expertise. Experience. Superior Technology.

Mineral Technologies has pioneered high capacity fine mineral gravity separation equipment in the mineral processing industry for more than 70 years, with a range of high efficiency spiral separators.



Mineral Technologies' experienced metallurgists and design engineers continue to develop product improvements that result in more cost effective and efficient process solutions.

The company offers an extensive range of spiral separators to ensure the most appropriate selection for a given mineral processing duty.

## **MG Series**

Used for feed material generally containing up to 25 per cent heavy mineral (up to 40% in some applications).

## **HG Series**

Used for high grade feed material generally greater than 25 per cent and as high as 90% heavy mineral.

## **VHG Model**

A recently developed model specifically designed for feeds with very high levels of heavy mineral.

## **FM Series**

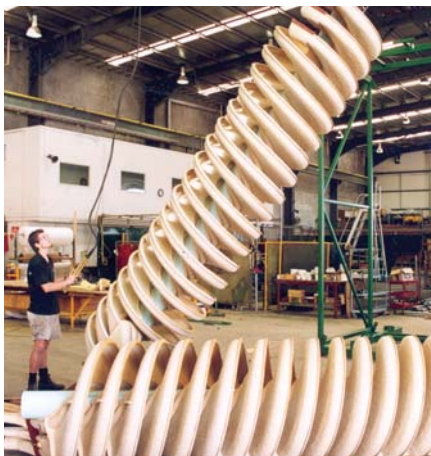
This fine mineral spiral series is used for valuable heavy mineral particles in the range of 30 to 150 microns.

## **WW Series**

Utilises wash water addition for enhanced grade control in specific applications (e.g. iron ore).

## **HC Series**

These super-high capacity spirals have been specifically designed for more economical and compact plants. The facility to add wash-water can be added on some models.



## Features

MD spirals incorporate the latest state-of-the-art technology derived from hundreds of plant installations in major mining operations around the world.

The high quality polyurethane lined fibreglass reinforced spirals offer:

- 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 and grade 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.



# CPG Resources – Mineral Technologies

## *Locations*

### **Head Office**

Carrara, Gold Coast, Queensland

T +61 7 5569 1300

F +61 7 5525 3810

E [mineraltechnologies@au.cpg-global.com](mailto:mineraltechnologies@au.cpg-global.com)

### **Western Australia**

West Perth

T +61 8 9213 9213

F +61 7 5525 3810

E [mineraltechnologies@au.cpg-global.com](mailto:mineraltechnologies@au.cpg-global.com)

### **North America**

St Augustine, Florida

T +1 904 827 1694

F +1 904 827 1695

E [mdmtusa@aol.com](mailto:mdmtusa@aol.com)

### **South America**

Belo Horizonte, Brazil

T +55 31 3201 2606

F +55 31 3201 2653

E [comercial@rochemt.com.br](mailto:comercial@rochemt.com.br)

### **South Africa**

Alton, Richards Bay

T +27 35 797 3230

F +27 35 797 4629

E [mineraltechnologies@au.cpg-global.com](mailto:mineraltechnologies@au.cpg-global.com)

### **India**

Kolkata, West Bengal

T +91 33 2462 1749

F +91 33 2462 8479

E [pintubose\\_kolkata@yahoo.com](mailto:pintubose_kolkata@yahoo.com)

### **Kochi, Kerala**

T +91 484 238 9097

F +91 484 238 9506

E [md\\_cochin@sify.com](mailto:md_cochin@sify.com)