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Innovation Award winner 2022

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About

The Optima ClassifierTM is a hindered settling separator, using upward current water to create a column of stratified slurry in the tank. The heavier particles, which concentrate at the bottom of the tank, are discharged through the reject discharge valve.

The smaller and lighter particles overflow the weir and are collected in the overflow launder with the overflow water.

Heavy, smaller particles are recovered back into the settling chamber by reducing the upward flow velocity. This creates crowding in the upper settling chamber, which then forms what is known as 'autogenous dense medium'.

The Optima Classifier system can be used as a fines add-on to an existing coal and mineral preparation plant, to increase overall plant recovery and quality.



- Fluidised bed separation using a recovery zone to induce an autogenous media separation phenomenon.
- Particle size up to 4mm
- Unit size ranging from 5 tph
- to 300 tph depending on application
- Low installation footprint

One technology, multiple commodities.

In a mineral and coal process plant, the Optima Classifier is the preferred choice for beneficiation of fines fractions and thickener underflow material. The Optima adds value to:

Cu

Copper-Cobalt

Best suited to preconcentration of Copper-Cobalt Ores

Fe

Iron Ore

Produces final concentrates of +63% Fe in one pass, at feed size ranges below 5mm.

Coal

Coal

Upgrade at varying density cut points. At lower cut points premium quality product (+27CV) is achieved at higher yields.

Au

Gold

Best suited for alluvial Gold recovery. It is also widely used in recover of carbon-from-grit applications.

Suitable for use with a variety of commodities;

Chrome Ore, Iron Ore, Manganese Ore, Coal, Spodumene, Diamonds, Gold, Ferro-Metals, Copper-Cobalt Ores, Tantalite and Sands.



Designed with simplicity in mind.

The unit can be controlled via a plant PLC system or a remote Optima ClassifierTM control system.



Contact us today.

info@vanadiumgroup.com.au www.vanadiumgroup.com.au

OPTIMA CLASSIFIER™ UNIT CAPACITIES



