



## SEPRO CONDOR DENSE MEDIUM SEPARATORS

### APPLICATIONS

For Pre-Concentration and Concentration of:

Metals, oxides and sulphides

- Antimony
- Bauxite
- Chromite
- Copper
- Gold
- Iron
- Lead
- Manganese
- Nickel
- Tin
- Zinc

Industrial minerals and silicates

- Barytes
- Coal
- Diamond
- Feldspar
- Fluorspar
- Limestone
- Phosphate
- Potash
- Quartz
- Petalite
- Spodumene

### KEY ADVANTAGES

High separation efficiency

Large feed top size capacity

High throughput capacity

Direct feed

- By conveyor belt, vibrating screen or feeder
- No pumping of feed solids, only medium is pumped
- Multi-stage separation
- Rougher/scavenger, rougher/cleaner DMS duties
- High sinks capacity
- Sink products may be combined or separated

Sepro pre-engineered DMS Plants

- Fast delivery
- Custom and transportable
- Rapid start of production
- Commissioning and training

### THREE PRODUCTS FROM ONE DMS SEPARATOR

The dynamic, multi-stage Condor Dense Medium Separator gives Sepro a leading position in advanced Dense Medium Separation (DMS) technology. A minimum of two separation stages are inherent in a Sepro Condor DM Separator, resulting in high separation efficiency in rougher/scavenger or rougher/cleaner DMS applications. DMS is typically used in a pre-concentration duty prior to processing or milling to reject barren material and reduce downstream CAPEX and OPEX costs.

Sepro supplies customizable and transportable DMS Plants for a wide variety of application requirements. Sepro's standard two product (concentrate, tailings) DMS Plant utilizes a two stage Condor Separator and single density medium circuit, while the three product (concentrate, middlings, tailings) DMS Plant utilizes a three stage Condor Separator and two medium circuits at high and low density.

The Condor Separator is simple and easy to feed, usually by a conveyor belt or from a vibrating screen. Abrasive or friable ore is not pumped resulting in reduced power requirements, equipment (pump, DM separator, piping) maintenance costs and reduced ore breakage and fines generation. The compact Condor DM Separator makes it possible to convert a conventional two product DMS cyclone installation into a three product operation.



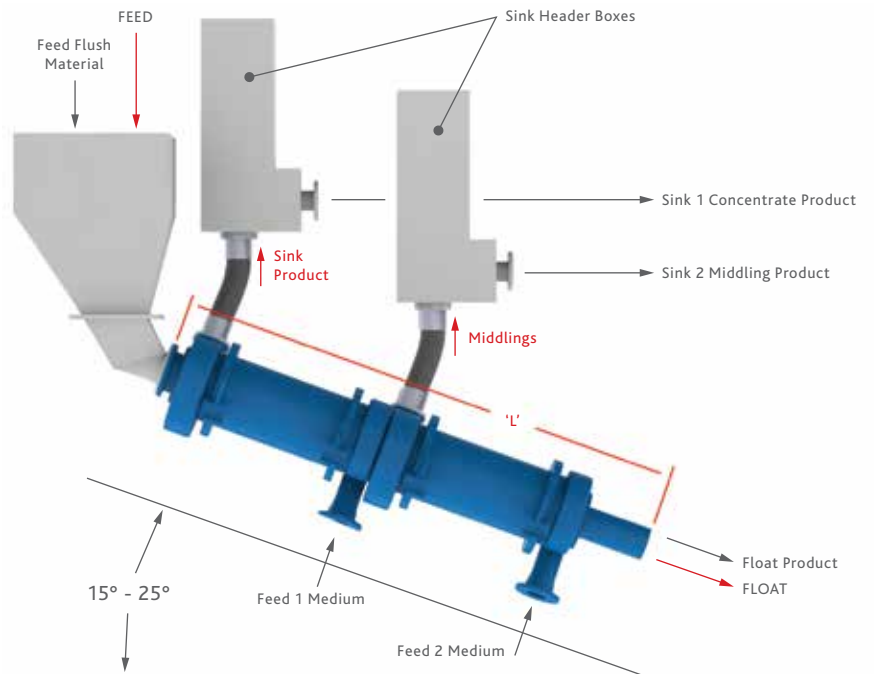
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## STANDARD CONDOR DMS SIZES

SEPARATOR SIZE mm	FEED CAPACITY* tph	MAX FEED PARTICLE SIZE mm	OVERALL LENGTH** mm (approx.)	WEIGHT Kg (approx.)
CS250	10 – 30	20 – 25	2450	650
CS300	30 – 50	30 – 38	2850	1250
CS400	50 – 80	40 – 50	3250	1850
CS500	80 – 120	60 – 75	3300	2550

\*Separator duty and capacity to be confirmed by Sepro.

\*\*For two-stage Condor only. Length will vary with three-stage arrangement.



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11/04/2023

