



CREATING CAPABILITIES



Capsian
Spirals

No.5, 3rd Street, Pachaiappan Colony, Pallavarm, Chennai
www.capecomindia.com
mail@capecomengg.com
+91-8917615717

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WHAT IT DOES?

Gravity separation of liberated minerals in the size range 2 to 0.07 mm may be concentrated on spiral concentrators. Spiral plants may consist of multiple stage spirals, depending on the mineral being recovered and the product requirements. Spiral separation uses a flowing film principle based on the size and specific gravity difference present in a mineral suite.

TYPICAL APPLICATIONS

- Iron ore
- Chromite
- Mineral sands
- Glass sand
- Gold
- Mica

BENEFITS:

Get an effective, low-cost device for the gravity beneficiation of ores. Spiral concentrators are used in most applications, particularly for concentrating low-grade ores and recovering minerals from mine rejects. Manufactured from lightweight, corrosion and abrasion-resistant materials, our spirals require minimal maintenance and upkeep.

- Gives you an effective and low-cost solution for gravity separation.
- Reduces maintenance with a durable modular design.

SALIENT FEATURES



Customised CFD Design



Wear Resistant



Capacity of 1.5 - 3 tph per



Pulp density of 20 - 50 % solids



Size Range of 0.07 - 2 mm



Pulp Volume of 4 - 5 m³

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Feed Box

- Solid polyurethane casting
- Impact wall provides longer life
- Design ensures homogenous pulp mix
- Replaceable



- Accurately manufactured by reverse lamination
- Working surface is sprayed with polyurethane to required thickness.
- Spiral Troughs are manufactured with the aid of Computational Fluid Dynamics hence making the separation scientifically easier.
- Modular Design.



Sliding Splitters

- Splitter settings easily adjusted from the outside of the spiral.
- Sliding splitters allow larger mass pulls to concentrate.
- Flush with spiral trough surface
- Easy and sharp cut of products
- Mounted with diverted guide.
- For release of entrapped gauge minerals



Launders

- Manufactured with high quality TRP and PU resins.
- Lightweight and rigid construction
- Modular mounting directly on spiral frame
- Product discharge directly into launder
- Minimizes cluttered pipe work and spillage.

Configuration:

- Available in single, double and triple start.
- Customised Banks and turns as per the client's requirements

Operating Parameter:

