



CREATING CAPABILITIES



ELU HIND SEPERATOR

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ELU HIND



WHAT IT DOES?

CapeCom Engineering Private Limited has designed and manufactured Elu-Hind Separators which finds wide application in Sand, Heavy minerals and Iron ore dressing applications. Elu-Hind is a highly efficient hydraulic Separator which uses the principles of Elutriation and Hindered Settling towards Separation and Sorting of finely sized ores based on particle density and size. A efficient Solution towards benefaction of ores and sizing of minerals

BENEFITS

- Low Power Consumption
- Low Water Consumption
- High Capacity (up to 7 tph/SQF)
- Efficient Separation/Classification
- Automated operation & Output Control

WHY ELU HIND:

- Available in standard models and custom design models.
- Static Machine with Modular Design
- A low operating cost equipment highly efficient in pre concentration as well as in scavenging circuits of mineral processing

SALIENT FEATURES



Customised CFD Design



Unique Elutriation Geometry



Capacity up to 7 tonnes per sq ft



Fully Automated System



Size Range of 0.02 - 2 mm



State of the art equipment

ELU HIND

Feed Well

Seperation Chamber

Operating Principle:

The Elu-Hind Separator uses unique Feeding mechanism and very distinct Elutriation geometry which provides a very sharp separation/classification. The design consists of an open top vessel into which elutriation water is introduced through a series of distribution pipes geometrically placed across the base of the device. The feed solids are injected into the upper section of the separator and are permitted to settle. The upward flow of elutriation water creates a fluidized bed of suspended particles within the separator. The small interstices within the bed create high interstitial liquid velocities that resist the penetration of the slow settling particles. The pulp density of the slurry is increased to 50% or above so that hindered settling effect is forced to act on the particles. Thus, the entire teeter bed acts as a homogeneous mass having a specific gravity of the slurry. As a result, light particles accumulate in the upper section of the separator and are eventually carried over the top of the device into a collection launder. Dense particles, which settle at a rate faster than the upward current of rising water, eventually pass through the fluidized bed and are discharged out one or more restricted ports through the bottom of the separator.

Dewatering Cone

Underflow

