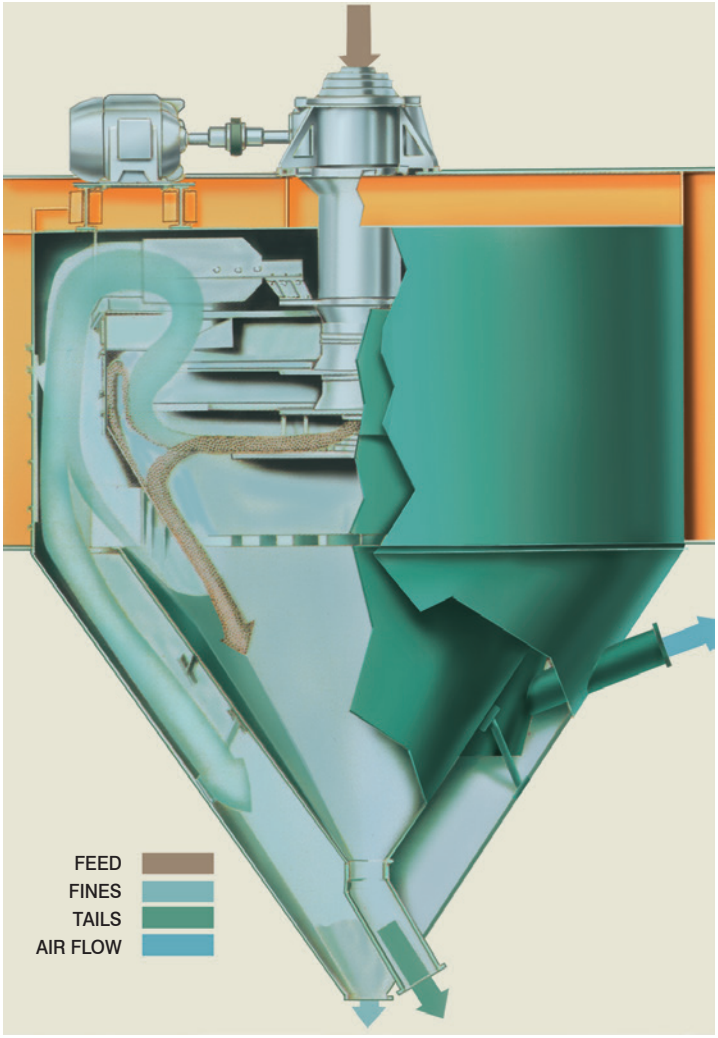
International Combustion (India) Limited

RAYMOND MECHANICAL AIR SEPARATOR



Produce materials with high uniform fineness; operate in open or closed circuit; excellent for de-dusting; can provide drying and cooling; faster separation of fines and more positive rejection of the oversize.

Operating Principle

Built in 11 commercial sizes ranging from 4 feet to 24 feet in diameter, as well as a 30-inch unit for small capacities and test runs.

A special 10-inch laboratory separator completes the Raymond line, and is a useful machine for handling small lots of materials in experimental work.

On many materials, finished products with a high percentage passing 15 to 20 microns can be obtained without difficulty.

In the cycle of operation, material enters the center feed pipe and drops upon the rotating distributor plate below, which disperses the material into the upward sweep of circulating air developed by the fan in the top chamber of the drum. The whizzer blades set up a centrifugal motion of the air and material. This concentrates the oversize material along the surface of the upper inner cone, where gravity causes in to flow into the lower inner cone and then out the tailings spout at the bottom. The airstream carrying the powdered material of required fineness moves through the fan and is delivered into the outer cone chamber where the fines are discharged as finished products. After the fines are released in the outer cone, the air returns through the deflector ports to the inner cone, setting up a continuous circuit.

Single Whizzer Separator

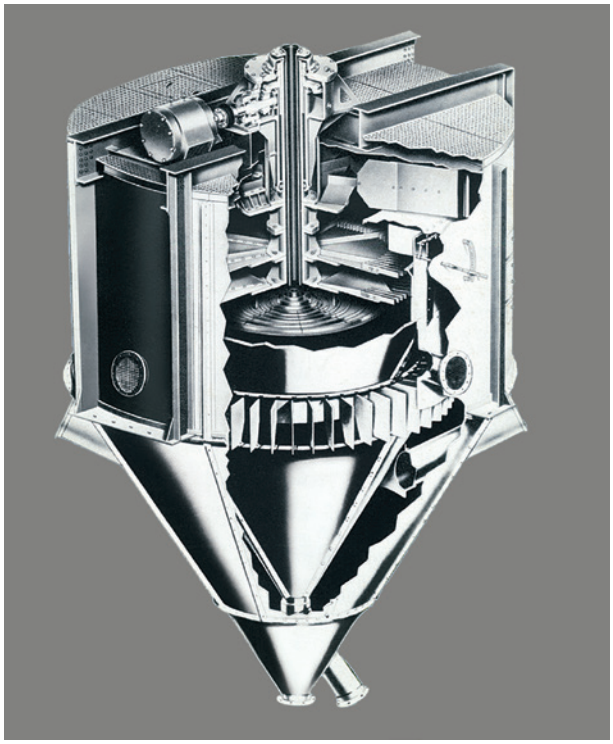
Has one bank of whizzer blades and used for coarser separations up to approximately 85% to 90% passing 200 mesh.

Double Whizzer Separator

With two banks of whizzer blades, they can produce finished materials up to 99% to 99.5% passing 325 mesh.

Applications in Closed Circuit Grinding

When operated in closed circuit combination with Pulverizer, Ball or Tube Mills the Separator skims off the fines rapidly so the mill works only on fresh material



without wasting power. The tailings are discharged back to the mill for further reduction. The reground material is returned to the Separator with the feed thus setting up a constant circulating load.

Typical Applications of Raymond Air Separators

- Cement • Limestone • Soya Flour • Hydrated lime
- Food Products • Chemicals • Talc and clays
- Metal and metallurgical powders • Pigments
- Fly Ash • Silica • Aluminium Oxide • Dia-tomaceous
- Graphite • Calcined Magnesite • PVC Resins
- Asbestos • Barite • Quartz/Feldspar • Coal.

International Combustion (India) Limited supply more than just machines. Advanced technology and comprehensive After-Sales Service for

- Erection/Commissioning • Training
- Spare Parts Service • Maintenance and Repair
- Modernisation and Upgradation.

REGISTERED OFFICE

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