

AIR SEPARATOR – FEMA

The Air Separator of third generation is a high efficiency machine realized according to internal engineering. The Separator is manufactured in various sizes in order to choose the best dimensioning for the different process values (capacity, fineness, etc).



Air Separator - FM 300



Air Separator - FM 075

Construction Features

The separator is composed by:

- Upper conical cylinder Casing, provided with a spiral tangential conduct for inlet of classification air;
- Fixed Guide Blades, adjustable for a correct air conveying;
- Feeding System by means of two mouths;
- Set of air tight rings placed between the fixed and the rotary parts;
- Rotary Part dynamically balanced;
- Drive Unit by means of motor and reducer or pulleys and transmission belts
- Wear proof lining on all surfaces requiring such a protection

Technological Features

The feeding material, fed from the top through the two mouths, falls on the distribution ring to undergo centrifugation. It then reaches the classification area to meet the air coming from the spiral tangential conduct.

Under the action of gravity, centrifugal force, and the air entrainment force, the various particles are selected according to the single weights and dimensions.

The fine material is carried by the air current through the bars of the classification cage and then conveyed into the upper central piping to be gathered into the external cyclones or directly into the bag filter.

All the required fineness grades can be easily obtained by changing the speed of the classification cage (operating on the inverter in the Control Room). The bigger particles, not carried by the air through the classification cage, fall into the lower cone and are fed back to the mill.