ORBITMILL 60
Centrifugal Ball Mill
Eirich Impianti

GRINDING SYSTEM:
- dry
- mainly by compression
- at middle-low speed

OPERATING SYSTEM:
3 balls, pushed on the outside by the centrifugal force produced by the rotor, compress the material to be ground, that lies between the balls and the grinding runway. Pneumatically the ground material goes to a wind separator, built on the mill, that carries back to the grinding area of the mill the material which has a larger size than desired and let go out of the mill the fine product.

DRIVES:
- Mill: 15 kW / 400 V 50 Hz
- Classifier: kW 3 / 400 V 50 Hz
CONSTRUCTION:
The grinding unit is formed by:

• a **strong structure** to be laid on the ground interposing antivibration device, on which is erected the main driving motor, that drives the rotating grinding group by V belts and grooved pulleys;

• one **grinding part** locked to the principal structure and to the upper side through a flexible connection, provided with valves for the control of the pneumatic system, grinding runway of casting with high resistance, grinding corps;

• a top including the **classifying system** formed by a statically and dynamically balanced impeller completed with a tight support set, driven by belts, motor with changeable speed, electric driven, digital display for the speed indication and for the alarms;

• **Bearings**: both the main bearings of the grinding rotor and the ones of the wind separator are positioned outside the area where material is passing through;

• **Automatic lubrication**

ADVANTAGES:
Grinding Technology

• Low energy consumption because the moving components are brought down to a few sturdy essential elements;

• Wind classification of the material before and after the passage through the grinding area;

• Milled material finess regulated in the 300-20 micron range directly by the control panel;

• Constancy in the set out grain size;

• Grinding and drying at the same time;

• Air recycling > energy saving

Mechanical

• No bearings in the grinding and classification area;

• Simple structure;

• Compactness;

Management

• Low maintenance cost;

• Automatization – PLC fully controls the system thanks to different sensors all around the plant;

• Normal wear parts cheap, light and easily exchangeable;

Installation

• Quick installation;

• No special foundations needed;

• Flexibility for different installation solutions;