

Grinding plant is made of jaw crusher, bucket elevator, electrovibrating feeder, main unit, optional equipment, blower, centrally electric control system, etc. According to customer's specific requirement, we can choose high pressure suspension grinding mill or MTM medium speed trapezium mill.



MTM medium speed trapezium mill

MTM medium speed trapezium mill is a new patent product developed from high pressure suspension grinding mill. It is mainly applied in metallurgy, construction, chemical industry, mining industry, road building, water conservancy, fireproof materials, steel, etc. this machine adopts several patents such as trapezium working surface, flexible connection, roll linked pressure boost, etc.

Operation principle of main unit:

Main unit runs with the central shaft that is driven by a decelerator. The top of the shaft is connected with a quincunx stand, on which a grinding roller is installed to form a swing support. The grinding roller not only rotates around the central axle and grinding roller, but also rotates around its own axle due to the friction. There is pallet knife system at bottom of quincunx stand. The pallet knife system is under the grinding roller. With co-rotation of pallet knife and grinding roller, pallet knife will lift the materials into the space between roller and ring to form a material layer. The materials will be grinded due to centrifugal force of roller.

The classifier drives the impellers on the tray to rotate through speed adjusting motor, so that powder can be separated. The standard particles will enter cyclone collector. After being separated from the air flow, powder will be collected. Substandard particles will be thrown to the outside wall, to be separated from the air flow. Heavy powder will fall into the grinding chamber to regrind due to self gravity

Grinding Plant:

Materials first enter jaw crusher to be crushed to smaller size. Then they are lift to storage room by elevator. Vibrating feeder will feed materials into grinding chamber evenly and gradually. After being grinded, the powder will be blowed to cyclone by blower. Then the material will be transferred to storage room through pipes, and then will be discharged as final products. The whole process works in a negative pressure environment. First, through pipes, the air from the blower enters the cyclone collector above the storage room along with powder, and then returns to the blower through return pipe. In the way, air can be recycled. There is a powder locking equipment under the cyclone, which isolates the outside positive air pressure and the negative air pressure inside cyclone. And this ensures high productivity. In addition, the residual air and dust under the main unit will be transferred to dust catcher equipment through pipes and be cleaned there. The clean air will be discharged so that environment will be protected.

Grinding Plant Of Zenith China