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Based on the years' research experience and the suggestion of our customer, the MTW **Grinding Mill** is the latest grinder. The MTW series mills adopt bevel gear integral transmission, inner light-oil lubrication system, arc whirl tube and other latest technologies. And now it has been used in the field of Metallurgy, building materials, chemical, mining and can be applied to crush the materials like Quartz, feldspar, calcite, talcum, barite, fluorite, rare earth, marble, ceramics, bauxite, manganese ore, iron ore, copper, phosphorus ore, zircon sand, slag, water, slag, cement, etc.

Main structures of MTW **Grinding Mill**

Its main structure are including the main machine body, classifier, wind machine, jaw crusher, suspan lifter, electric vibrating feeder, the storehouse, the bag dust catcher, whirl wind classifier, the electric cabinet and also the motors. MTW series mills features floor standing model, small occupation area, stable transmitting, advance and reasonable selection, high automatic degree. The important parts adopt high-quality steel, which optimizes the appearance and enhance the durability effects. The electric system adopts centralized control, and features high degree of automation. and the size of the vibrating feeder is small and light, which is controllable and energy-saving.

Working Principle of MTW **Grinding Mill**

The grinder is driven by rotation of the central axle through gear, with the up end of the axle connecting to a quincunx-rack upon which the grinding equipment is fixed. The whole set equipment turns together with the axle along the grinding ring while the rollers rotate driven by the fractional force. A set of shovel are installed at the lower end of the quincunx-rack. While turning together with the rollers, the shovels shed the stuff onto the gap between the rollers and the ring, and that's where the stuff layer forms. The rotating rollers, while turning together with the ring, grind the stuff layer into powder. And the turning speed of the impeller can be adjusted to the requirements of the fineness of powder products. You must speed the impeller speed if you want to get the finer particle size. You can increase the contact between the impeller and the powder, which can make the non-conformance powder thrown to the outside wall, thus separating from the air stream. And the coarse powder will fall into the grinding room to be recrushed while the conformance final products will be intaked in the large classifier by the impeller. So the air stream and the powder can be separated and then the powder will be collected. It plays an important role in ensuring the function of the grinder. As the high-speed revolving air current mixed with ground stuff is flown into the cyclone-collector, the ground stuff is separated from the air-current.

Structure Features of MTW **Grinding Mill**

- 1 Bevel gear integral transmission: MTW series mills adopt bevel gear integral transmission, which will better compact the whole structure, simplify the installation as well as improve the efficiency. The traditional mill needs decelerator and ratcheting to drive the main shaft that increases the installing difficulty and is easy to bring noise and reduce the efficiency.
- 2 Inner lubrication system: MTW series mills adopt light-oil lubrication to achieve the lubrication between the main bearing and gear bearing, without oil pump or lubrication station. The traditional mills' lubrication adopts grease lubrication which increases the resistance of lubrication, creates high inherent temperature and shortens the service life of bearing.
- 3 Arc whirl tube: MTW series mills adopt arc whirl tube to reduce the resistance and avoid the air-stop and so on. The traditional mills adopt board-type whirl tube that increases the resistance, reduces the performance, and stops the air flow and so on.
- 4 Curved surface shovel with changeable edge: The traditional mills adopt quick wear edge and edge is combined with shovel. If the edge is worn, all of the shovel should be changed, which increases the cost and the off time. The edge of MTW **grinding mill** adopts wearable alloy materials which improve the service life. The Changeable edge is easy to change, which saves time and cost. The traditional flat shovel make the materials accumulate in one level, which reduces the ring and roller' service life. The curved surface shovel makes a vertical material liner, which increases the working face and capacity.

5 Insulating type cyclone collector: Adoption of the insulating structure between the inner core and mixed air flow improves the classifying efficiency and precision. While the traditional one do not have the isolating structure.

6 Non-resistance inlet shell: Traditional observation door of shell protrudes that makes the inner surface is not so smooth that it will bring eddy effect and increase the consumption. MTW series mill adopts the same curved surface which avoids the eddy effect.

7 Fine appearance: MTW series mills not only adopt many advanced structure but also optimize the appearance.

Products advantages of MTW Grinding Mill

MTW Series Continental Trapezoid Grinding Mill produced by Shanghai Shibang Group features floor standing model,small occupation area ,stable transnitting ,advance and reasonable selection,high automatic degree . And with all of the advantages ,it has been exported to abroad and win the internatioanl popularity.

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