

MTW series grinding mill

MTW grinding mill brief introduction:

SBM European style trapezium grinding mill (sales code: MTW) obtains international advanced technology as well as many patents. The R&D team has made great efforts to bring the MTW series mill into the world according to advices of customers of YGM9518 mill and their long-term experiences. The grinding mill adopts bevel gear integral transmission, inner automatic Thin-Oil lubricating system, arc air channel and several latest patents.

MTW grinding mill is suitable for:

MTW grinding mill is mainly applied to the powder processing of mineral products in the industries of metallurgy, construction materials, chemical, and mining, etc. They can produce powder from various non-flammable and non-explosive mineral materials with Mohs hardness below 9.3 and humidity below 6%, such as quartz, feldspar, calcite, talcum, barite, fluoride, Xircom, cinder, white lime, cement clinker, activated carbon, dolomite, granite, soft coal, coking coal, lignite, magnesia, chromium oxide green, gold ore, red clay, clay, kaolin, coke, coal Gangue, porcelain clay, kyanite, fluorspar, bentonite, medicinal stone liparite, diabase, pyrophyllite, shale red stone, emeraldite, basalt, gypsum, graphite, carborundum, heat insulating material, etc

MTW grinding mill features and main benefits: ???

- 1) Bevel gear integral transmission system:
The traditional grinding mill needs decelerator and ratcheting to drive the main shaft that increase the centering difficulty and is easy to bring noise as well as reduce the efficiency. MTW series grinding mill adopts bevel gear integral transmission that compact the whole structure and simplify the installation as well as improve the efficiency.
- 2) Inner light oil lubrication system:
The traditional mills lubrication adopts grease lubrication which increases the resistance of lubrication, creates high inherent temperature and shortens the service life of bearing. MTW series mills adopt light-oil lubrication achieve the lubrication of bearing without oil pump and lubrication station.
- 3) Arc whirl tube:
The traditional mills adopt board-type whirl tube that increases the resistance, reduces the performance, and stops the air flow and so on. MTW series mills adopt arc whirl tube reduce the resistance and avoid the air-stop and so on.
- 4) Curved surface shovel with changeable edge:
The traditional mills adopt quick wear edge and edge combine with shovel. If the edge is worn, all of the shovel should be changed that increase the cost and the stop time. The edge of MTW series mill adopts wearable alloy materials which improve the service life. The Changeable edge is easy to change that save time and cost. The traditional flat shovel make the materials accumulate in one level that 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:
Adopt insulating structure between the inner core and mixed air flow that improve the classifying efficiency and precision.
- 6) non-resistance inlet shell:
Traditional observation door of shell protrude that makes the inner surface is not so smooth which brings 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.

How MTW grinding mill works?

The bevel gear transmits in a whole and drives the main shaft, which is connected with the roller hanger in the top. There are grinding rollers installed in the hangers and forming a swing support. The rollers rotate not just around the main shaft but also around the grinding ring, besides, rollers can rotate to itself as well because of friction. Shovels are installed at the bottom end of hanger; when shovels rotate together with rollers, materials will be fed into space between rollers and ring to form a material layer, which will be grinded due to centrifugal force. The classifier drives the blades in the rotary table through the speed motor to classify the powder.