

MTM Medium Speed Trapezium Mill - Cone Crusher



MTM Medium Speed Trapezium Mill

To be used many industrial areas, the MTM Medium Speed Trapezium Mill is designed and fabricated by our own company, which was injected many new and high technology, as trapezium's working surface, flexible connection, roll linked pressure boost..... It is really different traditional mills with defects, the MTM Medium Speed Trapezium Mill has capacity, fineness, energy consumption, service life advantages, it is the substitute of the traditional mills. The machine can be used: such as building, chemical, chemical fertilizer, metallurgy, mining, nonmetal, abrasive, bearing materials, ceramic, steel, thermal power, bricks and tiles, coal industry It can grind these materials which are 9 or less on the Meshes scale and moisture is below 6%, and they should be non-explosive and non-flammable mining materials. The final size can be adjusted from 30 to 400 meshes. The mill can be used many materials grinding , our international customers often use it to grind cement (raw meal and cement clinker), quartz, feldspar, calcite, gypsum, limestone, dolomite, graphite, fluorite, aedelforsite, phosphate ore, fused calcium-magnesium phosphate, car amide, electrolytic manganese metal, ferromanganese, coal, gangue, slag, zirconium, steatite, granite, orthoclase, marble, barites, ceramics, glass.....

MTM Medium Speed Trapezium Mill is a Chinese patented grinding mill, the structure suitable, size small, energy saving, working limited time longer; is this new machine features. In the grinding mill, air is driven into the undersurface of the grinding ring and flowed upward, carrying all its technical performance has reached leading and international level this is Shanghai Shibang machinery company, a China grinding mill manufacturers.

The Advantages of MTM Medium Speed Trapezium Mill:

1. For enhancing the crusher's working efficient, the ladder-shaped rollers and rings to be used in the grinding mills, the inverted trapezium rollers and rings in main machines control the slip velocity, they can be longer the grinding time.

2. Having the pressurized and balancing function spring reduce the trembling of crusher, our company is inventor of this new technology. The symmetrical roller assembly is connected by horizontally-placed spring rod. When the large materials impact one roller assembly, to keep balance, the radial force will pass to another roller assembly, which is on the plane of symmetry through spring rod. Under this condition, the whole device's bearing is improved to be 40% on the other mills; and the forming resilient connection can reduce the vibration and noise, also it can avoid resonance.

3. The powder classifier uses high density impeller, increasing precision of powder and capacity, by fixed spindle speed, to enhance the density of impeller is to enhance the fineness of final products. When the fineness of final product is fixed, the spindle speed of high density impeller is lower than the low density one. Thus under the same power, our machine can reduce resistance of air's flow, the experience told us, it can enhance more than 50% production capacity over traditional grinding mill.

4. Our machines, crushers, grinding mill, have been installed the blower for improving working, it can be more 62% efficient higher than usual before

5. The impeller can be adjustable. The clearance between housing and ending of powder classifier's blade also effects fineness. Our mill is convenient to adjust the fineness.

Construct:

The whole set of MTM medium speed trapezium mill consists of main mill, powder classifier, speed reducer, blower, jaw crusher, bucket elevator, vibrating feeder, storage bin, bag filter, pipe and fitting, cyclone powder collector, electric control cabinet, electric motor, etc.

Specification of MTM Medium Speed Trapezium Mill:

| Item | MTM100 | MTM130 | MTM160 |
|---|----------------|----------------|-----------------|
| Number of roller | 4 | 5 | 6 |
| Major diameter of roller × Height (mm) | Φ320×200 | Φ410×240 | Φ440×270 |
| Internal diameter of roller × Height (mm) | Φ980×200 | Φ1320×240 | Φ1600×270 |
| Main engine spindle speed(mm) | 130 | 98 | 82 |
| Maximum feeding grain size (mm) | <25 | <30 | <35 |
| Grain size of finished product (mm) | 1.6 - 0.038 | 1.6 - 0.038 | 1.6 - 0.038 |
| Output (t/h) | 3 - 8.8 | 6 - 13 | 13 - 22 |
| Overall dimension (mm) | 9910×5365×8310 | 7910×7000×9645 | 12550×5700×8355 |
| Weight(t) | 16 | 26.1 | 38 |

Note: If there is any modification, all parameter and overall dimension are subject to the operating instructions.

| Name | Item | Unit | Specification and technical data | | |
|--|---------------|-------|----------------------------------|-----------|-----------|
| | | | MTM100 | MTM130 | MTM160 |
| Motor of main engine | Model | - | Y225M-4 | Y280M-4 | Y135M1-4 |
| | Power | kw | 45 | 90 | 132 |
| | Spindle speed | r/min | 1480 | 1480 | 1480 |
| Motor of adjustable varying speed motor | Model | - | YCT200-4A | YCT200-4B | YCT225-4A |
| | Power | kw | 5.5 | 7.5 | 11 |
| | Spindle speed | r/min | 125~1250 | 125~1250 | 125~1250 |
| Motor of elevator | Model | - | Y100L2-4 | Y100L2-4 | Y112M-4 |
| | Power | kw | 3 | 3 | 4 |
| | Spindle speed | r/min | 1420 | 1420 | 1420 |
| Motor of centrifugal induced draught fan | Model | - | Y225S-4 | Y280S-4 | Y315S-4 |
| | Power | kw | 37 | 75 | 110 |
| | Spindle speed | r/min | 1480 | 1480 | 1480 |
| Motor of jaw crusher | Model | PE | 200x350 | 250x400 | 250x750 |
| | | - | Y160M-6 | Y180L-6 | Y200M-6 |
| | Power | kw | 7.5 | 15 | 22 |
| | Spindle speed | r/min | 970 | 970 | 970 |
| Magnetic vibration-actuated feeder | Model | - | GZ1F | GZ2F | GZ3F |
| | Spindle speed | watt | 60 | 150 | 200 |

Note: If there is any modification, all parameter and overall dimension are subject to the operating Instructions.