MTM Mínshìsī Táixíng Mòfēn Jī

MTM Medium Speed Trapezium Pulveriser

The process of civilization, the process of dividing.
**Applicable Scope**

The MTM mill is widely used in building materials, chemical, mineral, metallurgy, environmental protection, coal, and other industries. It can process quartz, feldspar, marble, barite, fluorite, rare earth, mica, ceramic, bauxite, manganese ore, iron ore, copper ore, phosphorus ore, feldspar oxide, zircon sand, slag, feldspar, calcite, compound fertilizer, coal ash, eating coal, brown coal, magnetite, chromium, pyrite, gold ore, clay, kaolin, coke, coal gangue, porcelain clay, cyanite, flouorspar, bentonite, medical stone, fine marble stone, mixed green rock, pyrophyllite, clay brick, clay tile, fireclay, microwave oven, and various other materials in the above-mentioned industries. It is suitable for processing various materials with different hardness and moisture contents, and can meet the needs of various industries.
Operating principle / 工作原理

Product advantages / 产品优势

1. Cost advantage: It's a vertical structure and easy to be completed and covers a small area. It's characterized by an independent and self-production system from cubistic material to finished powder product. Low investment by one time and low energy consumption. Under ideal conditions, energy consumption per unit and per new material feed is 1.02kWh/mt and 1.48kWh/mt, more than 60% lower than the pulverizer at the same level.

2. Creative grinding roller and ring: Compared with traditional Raymond pulverizer, the grinding roller and the grinding ring are designed as multi-level step shape to reduce the material flowing down between the grinding roller and the grinding ring, extend grinding time and improve fineness and output of the finished product.

3. High efficient balancing and pressurizing spring: The trapezoidal pulverizer also succeed the advantage of Raymond pulverizer and suspended roller pulverizer, the grinding roller assembly is connected with the horizontal spring through the rod. Generated radial forces are able to largely avoid large material into the grinding cavity and abrasion on main shaft and bearing and improve the service life of the equipment. During operation, the high pressure spring interacts with the centrifugal force and the grinding ring is running against the grinding ring. Its running pressure is 1.2 times higher than that of Raymond pulverizer under the same power condition; so the output is largely improved.

4. Technical improvement based on environmental protection concept: The host is connected with the power concentrator flexibly and the damping spring and the sealing bell reduce vibration and noise, and also avoid resonance. Minimum dust pollution is ensured by high efficient dust removal equipment and prudent component processing technologies.
5. High density, high precision impeller device:

In the same rotational speed, the equipment thinness can be improved by controlling the density and precision of the impeller. In other words, the impeller has a higher rotational speed than the impeller under the condition that the product thinness is not changed, and the output is improved at least 50% by less airflow resistance under the same power condition.

6. High efficiency and precision centrifugal draft fan:

The fan plays a vital role in the whole running of the pulverizer. The design of the centrifugal draft fan is highly efficient and energy-saving. The efficiency is higher than that of the traditional type, ensuring a stable and efficient operation.

7. Quick adjustment and maintenance:

The pulverizer and screening device are designed to achieve a high grinding efficiency. The screen is adjustable to ensure stable output and fineness.

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Production flow of complete equipment / 全套设备生产流程

The complete equipment of medium speed shape pulverizer consists of main unit, analyzer, pipeline, powder collector, centrifugal fan and dust collector. The auxiliary equipment includes jaw crusher, bucket elevator, electro-vibrating feeder, silo and electric cabinet.

The main unit includes:

- A high-efficient and energy-saving draft fan that plays a vital role in the running of the pulverizer.
- The pulverizer has a high grinding efficiency, ensuring a stable and efficient operation.
- The screen is adjustable to ensure stable output and fineness.

Working process of the whole pulverizer: After crushing and screening, the crushed material is conveyed to the high-speed centrifugal draft fan, where the fine powder is separated and collected. The airflow is then directed to the cyclone collector, where the collected powder is separated from the airflow and collected into the silo.

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高效率和稳定性的保证：设备在高效率的条件下，以高磨粉效率和低能耗运行，从而保证了产品的质量和稳定性。
### Technical Parameter / 技术参数

#### 表一 / Table 1

<table>
<thead>
<tr>
<th>Name</th>
<th>MTM-130</th>
<th>MTM-160</th>
<th>MTM-190</th>
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<tbody>
<tr>
<td>型号 / Model</td>
<td>Y235J-5</td>
<td>Y235J-6</td>
<td>Y235J-7</td>
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<tr>
<td>功率 / Power</td>
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<tr>
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<td>Y0.045, 0.084</td>
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<tr>
<td>重量 / Weight (kg)</td>
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#### 表二 / Table 2

<table>
<thead>
<tr>
<th>Name</th>
<th>Specification and Technical Data</th>
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</table>

### Notes:
- The Crushing Capacity depends on local core data, due to the fact that there can be various factors such as the rigidity, humidity, gradation of feeding materials, dimension of discharging port and operating method etc.
Customer site / 客户现场