

TGM Series Super Pressure Trapezium Mill



TGM Series Super Pressure Trapezium Mill is the latest grinding mill. TGM Series Supper Pressure Trapezium Mill is researched and designed by our experts basing on long term experiences of mill research and development, and according to numbers of customers' using requirements and suggestions home and aboard. The TGM Series Super Pressure Trapezium Mill adopts our patented technologies, like trapezium working surface, flexible connection, roller linked pressure boost, etc. TGM Series Super Pressure Trapezium Mill has reached the advanced international level of powder making equipment manufacturing.



This mill consists of main frame, decelerator, powder separator, blower, jaw crusher, bucket-elevator, vibrating feeder, hopper ,bag filter, pipe—devices ,motor and electric switch box, etc..



■ Working Principle

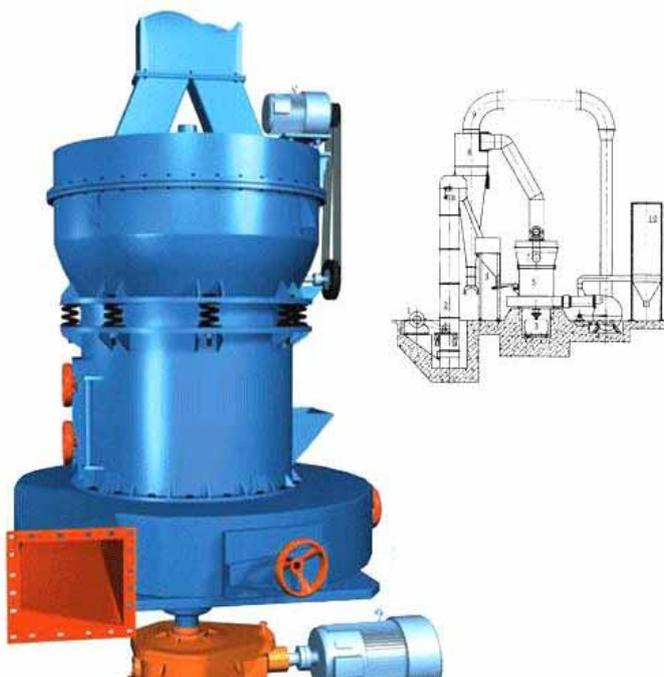
Firstly, raw material should be crushed by the jaw crusher to the size specified, and then the crushed stuff is elevated into a hopper from which the stuff is loaded, through the vibrating feeder, evenly and continuously into the grinding chamber for power-processing. After this, the ground stuff is carried by the air from the blower into the separator for screening. The fine powers are blew into the cyclone collector and are poured out through the output-powder valve as the final products and the rough stuff after the screening will be recycled back into the grinding chamber for regrinding. The set's airflow system is closely sealed up and circulated under condition of negative and positive pressure.

The diameters of each part of rollers and rings are different, the upper part is big and the lower part is small, then they formed a trapezium form. This form can reduce materials' sliding speed downwards and prolong the grinding time for materials, thus the grinding efficiency is increased.; the pressing springs have the functions of balancing and pressure increasing; the flexible connection can make the mill stable, decrease the shocking and avoid sympathetic vibration; high density powder separator impeller decreases the air resistance and increases powder collecting fineness and capacity; the efficiency of energy saving and high efficient centrifugal blower is as high as 83%.





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Maintenance

- Prior to installation of the equipment, all the people who will be assigned to operate the equipment have to be technically trained to know the principle and rules of operation. Someone should be specially selected and put in charge of the operation.
- To ensure normal operation of the equipment, a manual containing strict rules and procedures for its operation, maintenance and repairment should be well prepared and followed. Tools, replacement parts for maintaining, repairing and lubricating oil and grease must be available for immediate use.

■ Technical Data

| Item\Model | TGM100 | TGM130 | TGM160 |
|---------------------------------|---|---|---|
| Roller piece | 4 | 5 | 6 |
| Roller Diameter×Height (mm) | Φ 320×200 | Φ 400×240 | Φ 440×270 |
| Ring Inner Diameter×Height (mm) | Φ 980×200 | Φ 1280×240 | Φ 1600×270 |
| Speed Of Main frame (r/min) | 130 | 98 | 82 |
| Max. Input Size (mm) | <25 | <30 | <35 |
| Product Size (mm) | 1.6~0.045 fineness can reach to 0.038 | 1.6~0.045 fineness can reach to 0.038 | 1.6~0.045 fineness can reach to 0.038 |
| Capacity (t/h) | 3~8.8 | 6~13 | 13~22 |
| Overall Dimension (mm) | 7300×5365×8310 | 9200×7000×9645 | 12550×5700×8355 |
| Weight (t) | 16 | 26.1 | 35 |

Note:

1. Based upon limestone-grinding with 80% pass-through;
2. The final technical data are subject to the operation manual along with the machine.

| Name | Item | Unit | Specifications & Technical Data | | | |
|-----------------------------------|-------|------|---------------------------------|-----------|-----------|---------|
| | | | TGM100 | TGM130 | TGM160 | |
| Motor for main frame | Model | | Y225M-4 | Y280M-4 | Y135M1-4 | |
| | Power | kw | 45 | 90 | 132 | |
| | Rev. | rpm | 1480 | 1480 | 1480 | |
| Motor for separator | Model | | YCT200-4A | YCT200-4B | YCT225-4A | |
| | Power | kw | 5.5 | 7.5 | 11 | |
| | Rev | rpm | 125~1250 | 125~1250 | 125~1250 | |
| Motor for Elevator | Model | | Y100L-4 | Y100L2-4 | Y112M-4 | |
| | Power | kw | 3 | 3 | 4 | |
| | Rev | rpm | 1420 | 1420 | 1420 | |
| Motor for Blower | Model | | Y225M-4 | Y280M-4 | Y135M1-4 | |
| | Power | kw | 45 | 90 | 132 | |
| | REV | rpm | 1480 | 1480 | 1480 | |
| Motor for Jaw Crusher | Model | PE | 200×350 | 250×400 | 250×400 | 250×750 |
| | | | Y160M-6 | Y180L-6 | Y180L-6 | Y200M-6 |
| | Power | Kw | 7.5 | 15 | 15 | 22 |
| | REV | rpm | 970 | 970 | 970 | 970 |
| Electro-Magnetic Vibrating Feeder | Model | | GZ2F | GZ2F | GZ3F | |
| | Power | w | 150 | 150 | 200 | |

Note: The final technical data are subject to the operation manual along with the machine.



Screening & Washing

Sand Washing Machine
Circular Vibrating Screen

Feeding & Conveying

Belt Conveyor
Vibrating Feeder

Crushing

Jaw Crusher
Impact Crusher
Hammer Crusher
Spring Cone Crusher
Hydraulic Cone Crusher
VSI Sand Making Machine
PCL Sand Making Machine
European Type Jaw Crusher
PYS Symons Cone Crusher
Mobile Crushing & Screening Plant

Grinding Plant

Ball Mill
Raymond Mill
High Pressure Suspension Mill
MSB series Coarse Powder Mill
Super Pressure Trapezium Grinding Mill
HGM Three-Rings & Medium-Speed MicroPowder Mill

New Production Technics

Grinding Production Line
Sand Making & Washing Plants
Stone Crushing & Screening Plants
Manufactured Sand Processing Chart
Construction Waste Crushing Technics
Basalt Aggregate for Express Highway Processing Technics

Pious / Elaborate / Rigorous / Harmonious

- *20 Years Experience*
- *High quality products*
- *Professional Liming Teams*
- *High reputation*
- *Competitive price*
- *King-like customer service*

Contact us

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