

## MTW Series Trapezium Mill

The MTW Series Continental Trapezoid Grinding mills - the latest grinding equipment, with its own knowledge patents, have reached modern advanced level in the world. This series mill absorbing the European advanced technology and many engineers' ripe experience, combining the actual requirement and proposal of our 9518 customers', have been developed on the basis of our professional engineers' hard researching. This new type mill adopts bevel gear overall drive, inner automatic Thin-Oil lubricating system, arc air channel and several latest patent technology.



### Working principle:

1. Raw material which has been crushed to the size specified is elevated into a hopper from which the stuff is loaded. And then through the vibrating feeder, the materials will transferred evenly and continuously into the grinding chamber for powder-processing. After this, the ground stuff is carried by the air from the blower into the classifier for regrinding. The set's airflow system is closely sealed up and circulated under the condition of negative and positive pressure.
2. The grinder is driven by rotation of the central axle through decelerator, 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.
3. The turning speed of the impeller can be adjusted to the requirement of the fineness of powder products. 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.

### Usage:

This equipment is mainly used to grind minerals in the field of metallurgy, construction, chemical industry, mining, etc., including lime stone, quartz, feldspar, calcite, talcum, barite, fluorite,

thulium , marble, porcelain, bauxite, manganese, iron ore, copper ore, phosphorite, ferric oxide(red), zirconium, slag, active carbon, dolomite, granite, ferric oxide(yellow), bean cake, fertilizer, compound fertilizer, coal ash, soft coal, lignite, magnesite, chrome oxide, gold mine, red mud, clay, kaolin, coke, china clay, kyanite, fluorite, rhyolite, greenstone, shale, basalt, gypsum, graphite, carborundum, heat-retentive materials which are non-flammable, non-explosive, with Moh's hardness below 9 and moisture below 6%.

**Technical Data:**

Model	MTW110	MTW138	MTW175
Roller quantity	4	4	6
Ring inner diameter (mm)	Φ1100	Φ1380	Φ1750
Main unit speed(r/min)	120	96	75
Max. feeding size(mm)	< 30	< 35	< 40
Product size(mm)	1.6~0.045	1.6~0.045	1.6~0.045
capacit ε(t/h)	3.5~10	6.5~15	11~25
Overall dimension(mm)	8910×6950×9010	9860×8340×10227	13500×11500×9500
Weight(t)	18	28.5	46

Note: This specification is just for reference, any changes are subject to the MTW Series Trapezium Mill products.

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