



MTM MEDIUM SPEED TRAPEZIUM MILL

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Application

This mill is widely used in many industrial fields, such as building, chemical, chemical fertilizer, metallurgy, mining, nonmetal, abrasive, bearing materials, ceramic, steel, thermal power, bricks & tiles, coal industry, etc. 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 easily. There are thousands of materials our machine can grind. The typical materials are 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, etc.

Working Principle

In the grinding mill, Air is driven into the undersurface of the grinding ring and flows upward, carrying fines to the classifying section. The classifier allowed the pulverized material to pass and the oversized particles are drove back to the grinding chamber for further processing. The whole mill operates under negative pressure conditions, which can maximize the service life of major mechanica components. Thus minimizing mill maintenance and plant housekeeping problems have been solved.

MTM Medium Speed Trapezium Mill has lots of matchless advantages, and it adopts the latest national mill patents. It has features as follows: new designing, reasonable structure, smaller size, lower energy consumption, longer service life, and less consumption of wearing parts, higher performance cost ratio, etc. All its technical performance has reached leading and international level. Compared with Raymond mill, ball mill, and high pressure suspension mill, etc.

It has these five technical advantages:

- 1、The ladder-shaped rollers and rings improve crushing efficiency greatly. The rollers and ring are designed in the main machine of an inverted trapezium, which control the material's slip velocity





between rollers and rings. They can extend the grinding time, and enhance the crushing effect.

2、The press springs with balancing and pressurized function and the forming resilient connection with steady and vibration reducing function are invented into our machines. 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 adopts high density impeller, which can increase precision of powder and capacity. It has been proved that: under fixed spindle speed, to enhance the density of impeller is to enhance the fineness of final products. In other words, 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 capacity can be improved more than 50% over the traditional one.

4、There is high-efficiency and energy-saving blower installed on our machine. The efficiency of prismatic blade equipped on the traditional machine is only 62%, but the efficiency of the energy saving blower, whose impeller and blade are both stamping, is 85%.

5、There is convenient impeller adjusting device. 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.

MTM Medium Speed Trapezium grinder is a leading-world-level industrial mill. It is designed by our own engineers and technical workers, basing on industrial mill research of many years and adopting world-leading-powder processing technology. Our machine adopts many advantages from numbers of mill all over the world, such as trapezium's working surface, flexible connection, roll linked pressure boost, etc. It has overcome the traditional mill's defect completely in application, capacity, fineness, energy consumption, service life, etc.

And it is the ideal substitute of the traditional mill, such as Raymond mill, high pressure suspension mill, ball mill, etc. Nowadays, our products have been widely used in metallurgy industry, electric power industrial, chemical, building, steel industry, coal industry, etc. And it has brought large economic benefits to our customers and the society.

Specification

Item	MTM100	MTM130	MTM160
Number of roller	4	5	6
Major diameter of roller ×Height (mm)	Φ 320×200	Φ 410×240	Φ 440×270
Internal diameter of roller × Height (mm)	Φ 980×200	Φ 1280×240	Φ 1600×270
Main engine spindle speed (mm)	130	103	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	35

Name	Item	Unit	Specification and technical data		
			MTM100	MTM130	MTM160
Motor of main engine	Model	—	Y225M-4	Y280S-4	Y135M1-4
	Power	kw	45	90	132
	Spindle speed	r/min	1480	1480	1480
Motor of adjustable varying speed motor	Model	—	GZT2-42-4	YCT200-4B	JZT2-52-4
	Power	kw	5.5	7.5	11
	Spindle speed	r/min	125~1250	125~1250	125~1250
Motor of elevator	Model	—	Y1000L-4	Y1000L2-4	Y112M-4
	Power	kw	3	3	4
	Spindle speed	r/min	1420	1420	1420
Motor of centrifugal induced draught fan	Model	—	Y225S-4	Y250M-4	Y112M-4
	Power	kw	37	75	110
	Spindle speed	r/min	1480	1480	1480
Motor of jaw crusher	Model	PE	200x350	250X400	250x400
		—	Y160M-6	Y180L-6	Y180L-6
	Power	kw	7.5	15	15
	Spindle speed	r/min	970	970	970
Magnetic vibration-actuated feeder	Model	—	GZ1F	GZ2F	GZ3F
	Spindle speed	watt	60	150	200

Note: This specification is just reference, any changes are subject to products.



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