

Trapezium Mill

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The **Trapezium Mill** is innovated and developed by many years hard research, designed and improved on basis of high roller mill. This grinding mill is a new, efficient, energy saving super fine powder making machine for customers abroad. Trapezium working table, flexible connection and linked pressure boost of rollers are the technologies, which have set up the most advance level in the world for the super pressure trapezium mill.



Features of Trapezium Mill

1. Innovative roller and grinding ring design. Comparing with Raymond mill, rollers and grinding ring are designed as multiple steps shape, which can reduce falling speed of material falling in rollers and grinding ring, and prolong grinding time of materials, enhance products' fineness and production capacity.
2. High efficient balance pressure spring. Trapezium mill absorbs advantages of Raymond mill and roller mill, which can connect roller integration with the horizontal spring with pull bar. Generated axial force can reduce loss of main draft and bearings caused by bulk materials' falling into the mill cavity and prolong life span of equipments.
3. Main engine and powder concentrator is connected flexibly, vibration and noise will be reduced by vibration spring and seal tape, and avoid resonance at the same time.
4. High-density, high-precision impeller device.
5. High efficient centrifugal fan. Fans play an important role in the whole rotating process, the trapezium impeller energy saving fans are adopted, which is much more efficient that vertical impeller fans.

6. Comparing with Raymond mill, the patent super pressure trapezium mill will enable convenient, prompt adjustment of clearance between head of the separator and the shell, which can greatly improve fineness of the readymade products.

Application of Trapezium Mill

The **trapezium mill** is mainly used in metallurgy, construction materials, chemicals, ores, highway construction, hydroelectricity, fire resistant materials, and steel industries to process powder. Those materials such as quartz, feldspar, calcite, talc, barite, fluorite, rare earth, the marble, ceramic, bauxite, iron ore, copper, iron oxide red, zircon sand, slag, cement clinker, activated carbon, dolomite, , granite, garnet, iron oxide yellow, fertilizer, compound fertilizer, fly ash, coal, Ling U.S. sand, chromium oxide green, gold, red mud, clay, kaolin, coke, coal gangue, porcelain clay, kyanite , flourspar, bentonite, stone, shale, basalt, gypsum, graphite, silicon carbide, thermal insulation materials with Mohs hardness below 9.3 and humidity below 6%, and non-flammable and non-explosive ore materials are suitable for processing.

Technical Data of Trapezium Mill

Mm to inch conversion: 25.4millimeters=1 inch

The humidity and hardness of raw material will affect the fineness and capacity.

Item\Model	TGM100	TGM130	TGM160
Roller piece	4	5	6
Roller Diameter×Height(mm)	Φ320×200	Φ410×240	Φ440×270
Ring Inner Diameter×Height(mm)	Φ980×200	Φ1280×240	Φ1600×270
Speed Of Main frame (r/min)	130	103	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	6~15	9~22
Overall Dimension (mm)	7910×5365×8310	8910×7000×9645	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.

Table 2

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
Electro-Magnetic Vibrating Feeder	Model		GZ2F		GZ2F	GZ3F
	Power	W	150		150	200

Note: Any change of **Trapezium Mill** technical data shall not be advised additionally.

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