

Super Pressure Trapezium Grinding Mill

TGM Series Super Pressure Trapezium Mill is the latest grinding mill. TGM Series Super 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.

TGM Series Super Pressure Trapezium Mill mainly consists of mainframe, speed reducer, powder separator, blower, bag filter, pipes, powder collector, motor, etc. The peripheral equipments are jaw crusher, bucket elevator, feeder, hopper, electric control panel, etc. TGM Series Super Pressure Trapezium Mill can grind all kinds of non-flammable and non-explosive minerals with Moh's hardness lower than 9 and humidity less than 6%, and TGM Series Super Pressure Trapezium Mill is widely used in metallurgy, manufacture of building materials, chemical industry, mining industry, etc.



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Working Principle:

Large materials are crushed by Jaw crusher to the needed sizes firstly, then the materials are elevated to storage hopper by bucket elevator, third, the materials are fed into the grinding chamber for grinding by vibrating feeder equably and continuously. The powder after grinding goes upwards together with the airflow, after separating by powder separator, those which can meet the fineness requirement enters into the cyclone powder collector through pipe together with the airflow, and then discharged from the discharge

valve as final products. The airflow is sucked into centrifugal blower through wind recycling pipe at the upper part of cyclone powder collector. The mainframe is driven by the speed reducer through the central axis in the mill. The quincunx stand connected with the upper part of central axis, at the quincunx stand, rollers are set and by which the vibrating pivot formed. Below the quincunx stand and rollers there is shovel system. Materials are fed into the space between rollers and shovels when they are turning, and then be grinded by the pressure produced when rollers are turning, thus powder is made.

Advantage:

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%.

Table 1

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)	9910×5365×8310	7910×7000×9645	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: The final technical data are subject to the operation manual along with the machine.

Contact Us:

Address: No. 15, Dingxiangli Road, National HI-TECH Industry Development Zone, Zhengzhou, China.

Postcode: 450001

Tel: 0086-371-67992899 67371699 67999318 67996989

Fax: 0086-371-67992699

Email: Break-day@break-day.com

MSN Online: MiningMachine@hotmail.com

MSG Online: Summer_8001@yahoo.com

Skype: miningmachinery