



# TGM SERIES SUPER PRESSURE TRAPEZIUM MILL

TOP 1 BRAND OF CHINA'S CRUSHING  
AND GRINDING INDUSTRY

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## **PRODUCT PRESENTATION**

After a innovative research and development with great concentration for many years, TGM Super Pressure Trapezium Mill designed by experts of Liming Heavy Industry has offered a streamlined, high-efficiency, energy-saving Superfine Pulverizing Machinery to the extensive customers both domestic and aboard. According to the suggestions gathered from grinding mill users, TGM is improved on the base of High Pressure Suspension Mill, adopts multiple patent technology of mill and achieved a new level in the field of super pressure trapezium mill.

### **Three Innovative Technologies Highlight the Value of Liming Brand**

1. Roller linkage pressurization, smooth operation, enlarged production capacity
2. High energy and elastic connection
3. Efficient trapezoidal face, is more efficient

### **Purpose and scope of application:**

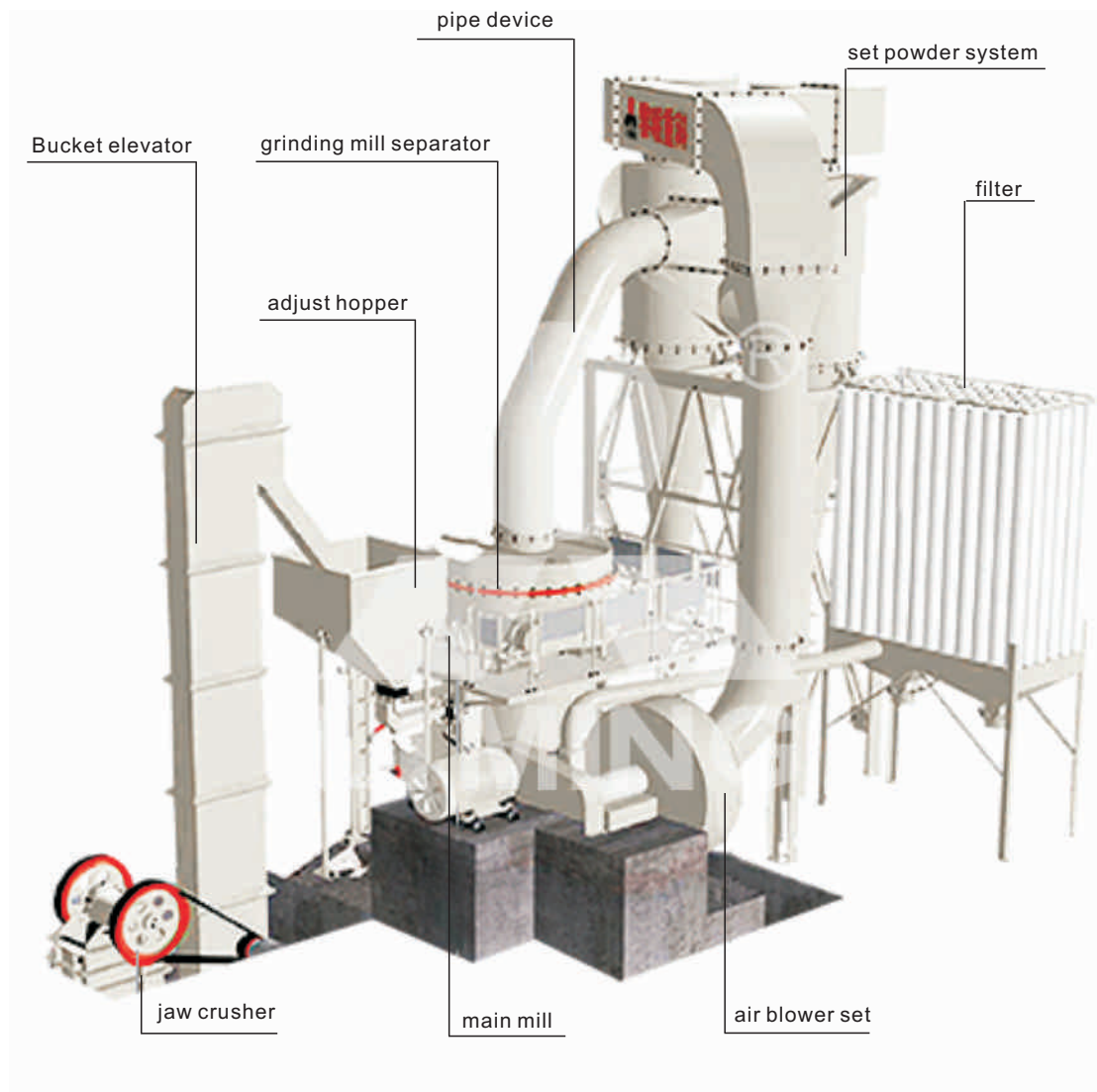
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黎明重工制粉装  
質量一万里

## PRODUCT STRUCTURE



### The Working Principle of TGM Super Pressure Trapezium Mill

Super pressure trapezium mill includes main mill, high-density classifier, connection pipes, high efficiency and energy saving of centrifugal induced draft fan, box bag dust catcher, crusher, winnowing pan hoist, storage hopper, the electromagnetic vibration feeder, electric control cabinet, etc. Host by central axis rotation speed reducer drive, and the top of the shaft coupling with the plum blossom, the rack is equipped with roller device and swinging pivot is formed. Roller device not only around the center axis of rotation, but also that circle of ring, roller rotation itself because of the friction effect. Plum blossom with the shovel system, its position in the roller bottom, the shovel with roller turn threw up the material in the process of feeding roller grinding ring, between bedding layer formation, the material layer is outward centrifugal force produced by the rotation of the grinding (extrusion) will material crushing, thus powder is made.





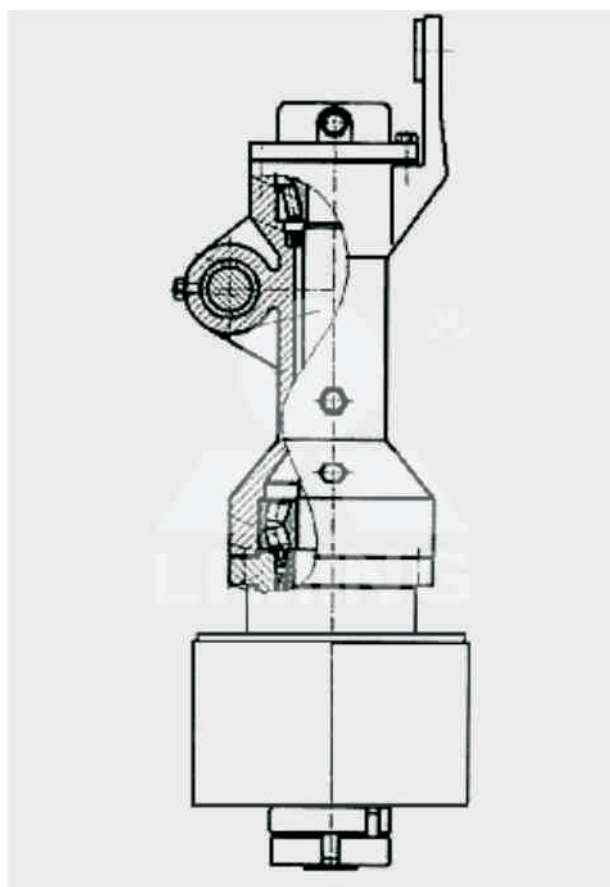
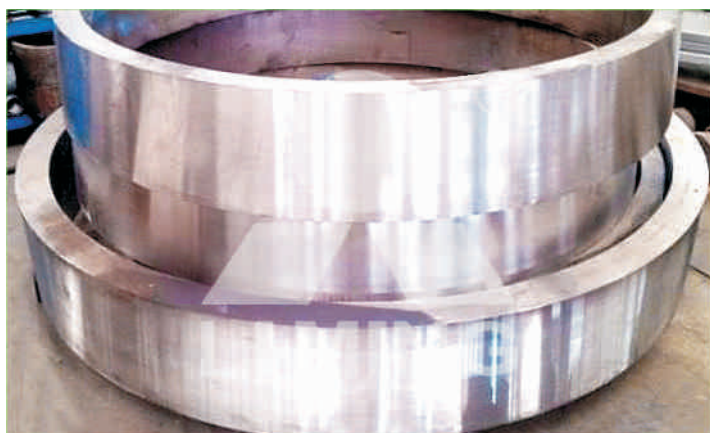
## PERFORMANCE ADVANTAGES

### 1. High efficiency of powder device

High density and high precision of impeller device, finished product yield under the same power increase more than 50%. Efficient and energy-saving centrifugal induced draft fan and induced draft fan efficiency was improved greatly. Convenient impeller adjusting device, improve the precision of the finished product.

## 2. Innovative designed roller and ring

The ladder-like roller and ring can effectively reduce the falling speed of the materials which will prolong the crushing time of the materials and increase fineness and the capacity.



## 3. The pressurize linked rollers provide the steady operation and high capacity

The rollers connect with the main shaft by the draw rod and the pressurize spring which will generate a radial force to avoid the damage aroused by the over-huge materials when it enter into the milling cave which finally extent the operation and the capacity of the mill.





#### 4.The bevel gear driving system with compact structure and easy adjustment

TGM super pressure trapezium mill is of the bevel gear driving system. The reducer connects with the lower end of the shaft through coupling, when the reducer drove by the motor, the shaft start running. With the compact structure and the easy adjustment, the efficiency of the mill has been increased massively.





# SPECIFICATIONS

**Table 1**

Model	Maximum feed size(mm)	Output fineness $\mu\text{m}$ (mesh)	Main shaft speed (rpm)	Roller			Ring		Capacity (tph)	Dimension (L×W×H) (mm)	Weight (t)
				Quantity	Diameter (mm)	Height (mm)	Diameter (mm)	Height (mm)			
TGM100	25	38-1600 (10-400)	130	4	$\Phi 310$	170	$\Phi 1050$	170	3 - 8	7325×7521×8200	16
TGM130	30	38-1600 (10-400)	103	5	$\Phi 410$	210	$\Phi 1400$	210	6-15	8802×7505×9695	26.1
TGM160	35	38-1600 (10-400)	82	6	$\Phi 440$	270	$\Phi 1750$	270	9-22	13025×7169×8355	38

**Table2**

Model	Main mill(KW)	Classifier (KW)	Bucket elevator (KW)	Blower (KW)	Jaw crusher		Feeder	
					Model	Power (KW)	Model	Power (W)
TGM100	37	5.5	3	37	PE250×400	15	GZ2F	150
TGM130	75	7.5	3	75	PE250×400	15	GZ2F	150
TGM160	132	18.5	4	132	PE250×100	30	GZ3F	200

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

In order to enhance your experience of our equipment during the operation, we strongly recommend spare parts originally manufactured by LIMING Heavy Industry. These high quality spare parts are manufactured using advanced metallurgy techniques, precise machining, and perfect compatibility, ensuring the lowest malfunction operation and creating higher value for our customer.

## Crushing Plant



Sine Liner



Spring



Toggle Plate



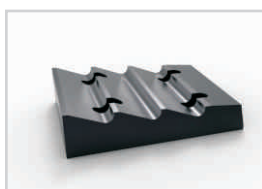
Guard Liner Plate



Impact Block



Wearproof Plate



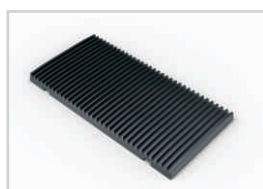
Impact Plate



Tension Rod



Feed Eye Ring



Movable Jaw Plate

## Grinding Plant



Ring



Roller



Shovel Base



Shovel



Gland Arove Roller Sleeve



Roller Sleeve



Roller Shaft



Classifier Impeller



Lining Plate



Air Way Guard Plate



## PRODUCT LIST

### Production Line

Stone Crushing Line

Sand Making Line

Industrial Grinding Line

### Grinding Plant

LM Vertical Mill

MTW European Trapezium Mill

LUM Vertical Roller Mill

TGM Trapezium Mill

T130X Superfine Grinding Mill

YGM Series Suspension Mill

HGM Series Micro Powder Mill

Coarse Powder Mill

Raymond Mill

### Crushing Plant

HJ Series Jaw Crusher

European Type Jaw Crusher

European Type Impact Crusher

Impact Crusher

Jaw Crusher

HPT Hydraulic Cone Crusher

HST Hydraulic Cone Crusher

CS Series Cone Crusher

Spring Cone Crusher

### Sand Making& Screening Plant

VSI5X Vertical Shaft Impact Crusher

VSI Vertical Shaft Impact Crusher

PCL Vertical Shaft Impact Crusher

YKN series vibrating screen

Vibrating Screen

Sand Washing Machine

Belt Conveyer

Vibrating Feeder

### Mobile Crushing Plant

Crawler Mobile Crushing Plant

Mobile Primary Jaw Crusher

Mobile Impact Crusher

Secondary Cone Crusher

Multi-Combination Mobile Crusher

Mobile VSI Crusher

Mobile Vibrating Screen

# QUALIFICATION

## GOST Certificate



Grinding Plant



Crushing Plant



Mobile Crushing Plant

## CE Certificate



Grinding Plant



Crushing Plant



Sand Making Plant



ISO9001:2008  
Quality Management  
System Certification



Environmental management  
system certificate





## **Service** — With me, enjoy your pleasant journey.

Liming has the most experienced team of engineers with professional knowledge and spirit of dedication. To serve the clients more conveniently, they scattered all over the world to work all year round. From the site planning to the drawing design, from the technical training to the installation and debugging, from the whole working line that values millions to the small pinion that looks insignificant, they fully understand the influence factors of actual situation on customer business, and create successful solution to improve the production efficiency and the environmental quality for customer operating agency.



## WORKSHOP





## ENTERPRISE PROFILE



Henan Liming Heavy Industry Science & Technology Co., Ltd. , established in 1987, is the leading enterprise of mining machinery in China.

Liming Heavy Industry is chronically committed to the research and develop of manufacturing of large infrastructure projects, such as construction, energy, transportation, etc. and provides various technical solutions and auxiliary products. "Made in Liming" is highly praised by our cooperative partners from more than 130 countries and regions overseas, such as Russia, Kazakhstan, Azerbaijan, Turkey, Kuwait, South Africa, Egypt, Vietnam, Malaysia, India, Australia, Korea, Canada and the European Union,etc. Liming is deserved to be one of the most excellent enterprises with the most industry customers and the most widely sales level service network.

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