



LUM SERIES SUPERFINE VERTICAL ROLLER GRINDING MILL

TOP 1 BRAND OF CHINA'S CRUSHING
AND GRINDING INDUSTRY





PRODUCT PRESENTATION

LUM superfine vertical grinding mill is an advanced grinding unit designed with the base of German vertical grinding mill, Taiwan superfine roller technology and our grinding mill manufacturing experience of nearly 30 years, a machine available for superfine powder grinding, classification and transporting in one single equipment, whose specifications, performance and product quality are all in first world class.

Three Innovative Technologies Highlight the Value of Liming Brand

- 1、 Principle of material layer grinding, good production with low pollution
- 2、 Multiple rounds classification technology, saving 40% energy
- 3、 Smart operating system, functioning with safety and efficiency

Feature and Application

LUM superfine vertical grinding mill is large-scale equipment mainly used for metallurgy, construction material, chemical engineering, mining, etc. It is available to superfine grind nonflammable materials with Moh's hardness below 9 and humidity below 6% such as calcite, marble, limestone, coarse whiting, talc, barite, dolomite, etc. into 400-1250 mesh, with a large capacity of 18tph.

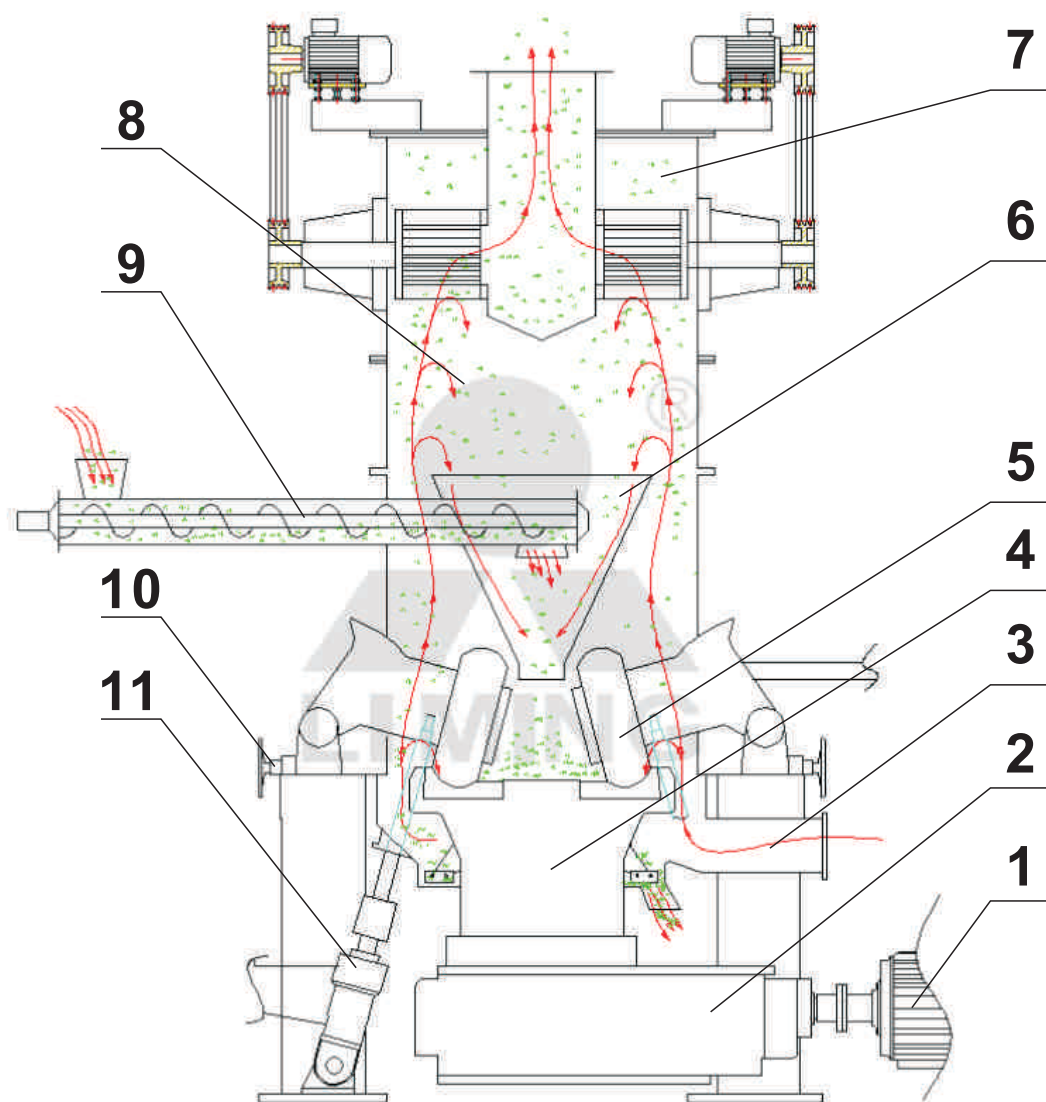


PRODUCT STRUCTURE

The working principle of LUM superfine vertical grinding mill

When the machine starts to work, the motor drives the millstone through the reducer while the wind enters into inside the main mill. Through the screw feeder, the materials are fed in the center of the millstone, and under with the centrifugal force, the materials move to the side of the millstone evenly. When the materials pass through grinding zoon, they are crushed and grinded by the rollers. Then the grinded materials move to the side of the millstone and taken upper by the strong airstream while the over-big materials fall down to the millstone and be re-grinded. When the materials taken by the airstream passing through the separator, under the effect of the blade, the unqualified coarse powder fall down to the millstone again for re-grinding. And for the qualified fine powder will pass through the blade and collected by the cyclone collector which are the final product of the LUM mill. The impurities mixed with the materials will fall down to the lower cave of the mill due to the gravity and then be cleaned out of the mill by the cleaning scrapers.

The LUM series super-fine vertical mill mainly contains the motor, the speed reducer, the roller, the millstone, the pressure system, the separator, the main mill. The roller is the main part to grind the materials which co-form the grinding zoon with the liner on the millstone. The shaft of the mill stone connect with output shaft of the reducer vertically. Hydraulic station provides high pressure oil through the pipe to the pressure device. The pressure device is the part to transform the high-pressure oil to the forcing device which provides the roller a force so that the roller has the enough pressure to grind the materials. The separator is an effective and energy-saving device which can separate the qualified fine powder from the unqualified coarse powder.



1: Motor

2: Reduction Gears

3: Engine Base (Air Intake)

4: Mill Hydraulic Station

5: Roller Lubrication Station

6: Pay Loader

7: Multiple Rounds Classifier

8: Main Body

9: Screw Feeder

10: Stop Block

11: Pressure Device (Hydraulic Cylinder)

PERFORMANCE **ADVANTAGES**

1.High efficiency of grinding, Low pollution of product.

A. The mill adopts the theory of material layers grinding which make the material stay in the mill for a shorter time to reduce the rate of re-grinding. And also the final product contains little iron with a higher whiteness and neatness which is perfect for the grinding of the white or transparent materials;

B With the special made roller shell and liner of the grinding curve for super-fine grinding, the mill is easier to form the materials layer than the normal vertical mill which can achieve the fineness for one time.

2.Adopted the advanced, high–efficiency and energy-saving powder-separating system.

A. Adopted the theory of multi-round separating, with the frequency conversion impeller, the mill can adjust the fineness of the final product at certain range without secondary classifying and low-grade product;

B. Adopted the theory of super-fine grinding and multi-blade separating, the LUM series mill can save the energy for like 30 to 50 percent than the normal mill;

C. the LUM series vertical mill has the extremely high reproducibility when grinding different kinds of materials.

3. Safe and efficient operation, intelligent control system.

A. Main engine revolution adopts frequency control of motor speed, which has been widely applied for materials;

B. It's equipped with a device to prevent roller from contacting with liner directly, and avoids the destructive impact and severe vibration;

C. PLC/DCS automatic control roller pressure control method, the grinding pressure get accurate control, does not need manual operation;

D. Roller lubrication using separate lubrication station, and a single roller loop adopts double pump, pump suction work mode at the same time, both make full lubrication and cooling of the roller bearing, roller bearing and can guarantee indoor won't because too much oil and cause leakage;

E. equipped with automatic control system, which can realize remote control, easy operation.

TECHNICAL PARAMETERS

Data \ Model	LUM1125	LUM1232	LUM1436
Item			
Disc Dia.(mm)	1100	1200	1400
Roller quantity	3	3	3
Into the grinding particle sizeD90(mm)	<10 maximum 15mm	<10 maximum15mm	<10 maximum20mm
Maximum input size(mm)	<15	<18	<20
Best input moisture	<3%	<3%	<3%
capacity(t/h)	5~14	7~16	9~18
Fineness(mm)	Disposable produce 0.045 to 0.02, the finest can reach 0.01		
Motor for main frame power(KW)	250	315	355
Power of rounds of classifier x number	15 KWx5	15 KWx7	15 KWx7

Note: grinding ore mohs hardness level shall not be greater than 5.

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



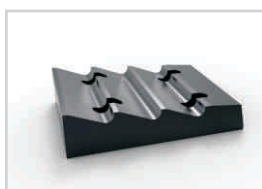
Guard Liner Plate



Impact Block



Wearproof Plate



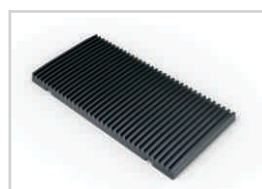
Impact Plate



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



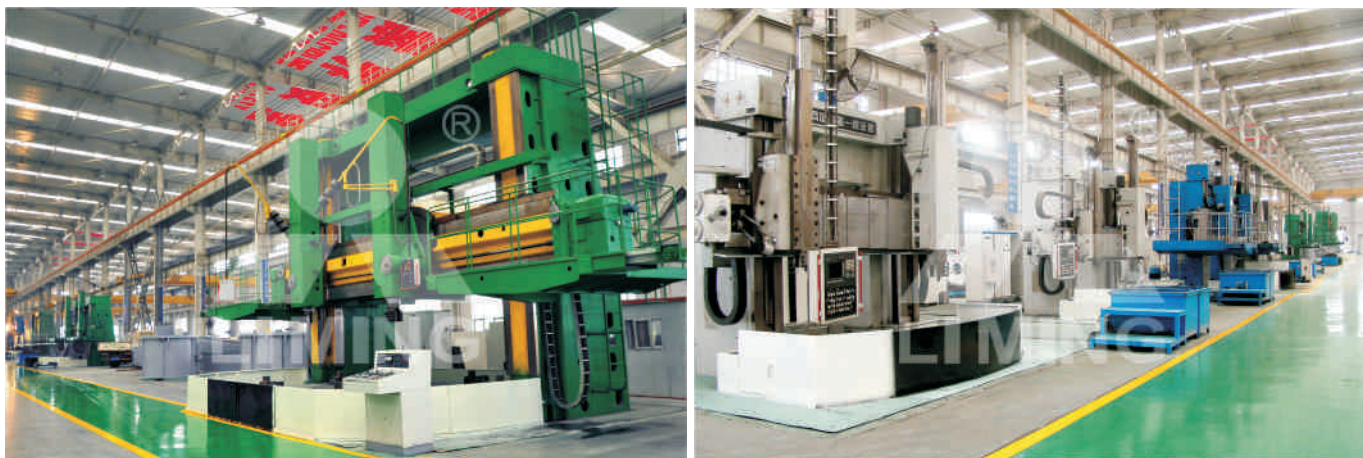
Environmental management
system certificate



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.

CONTACT US

HEADQUARTERS

Tel: 0086-371-86162511

Fax: 0086-371-67992699

Email: info@limingco.com

MSN: SalesCrusher@hotmail.com

Address: No.169, Science (Kexue) Avenue, National HI-TECH Industry Development Zone, Zhengzhou, China.

SHANGHAI BRANCH

Tel: 0086-21-33901608

Fax: 0086-21-58377628

Address: No.201-34, Huaxia 3rd Road, Pudong New Area, Shanghai, China.