



# LUM SERIES ULTRAFINE GRINDING MILL

Reach new height with KEFID

- The grinding principle of material layer
- Multiple frequency rotor classifier
- PLC/DCS automatic control
- Save 30%-50% energy





As China's largest crushing plant, mill equipments and beneficiation plants production base, kefid has exported large quantities and high-end mobile crushing plant and milling equipments to Russia, Kazakhstan, Indonesia, Ecuador, South Africa, Nigeria, Turkey more than 100 countries and regions and have solved about thousands of and beneficiation projects all over the world, which has made tremendous contributions to the local construction, mining industry and developments.

LUM-Series Ultra fine vertical grinding mill is an advanced mill which combining our company' several years of mill-producing experiences, It is designed and researched based on vertical mill technology, absorbing the worldwide ultrafine grinding theories. This series is a professional equipment including ultra fine grinding, classification and delivery. LUM series superfine vertical mill is the first choice for large scale non-metal grinding which can be widely used in calcite, marble, limestone, coarse, whiting, talc and dolomite and so on.



## LUM series superfine vertical mill combine superfine powder grinding, separating and transportation

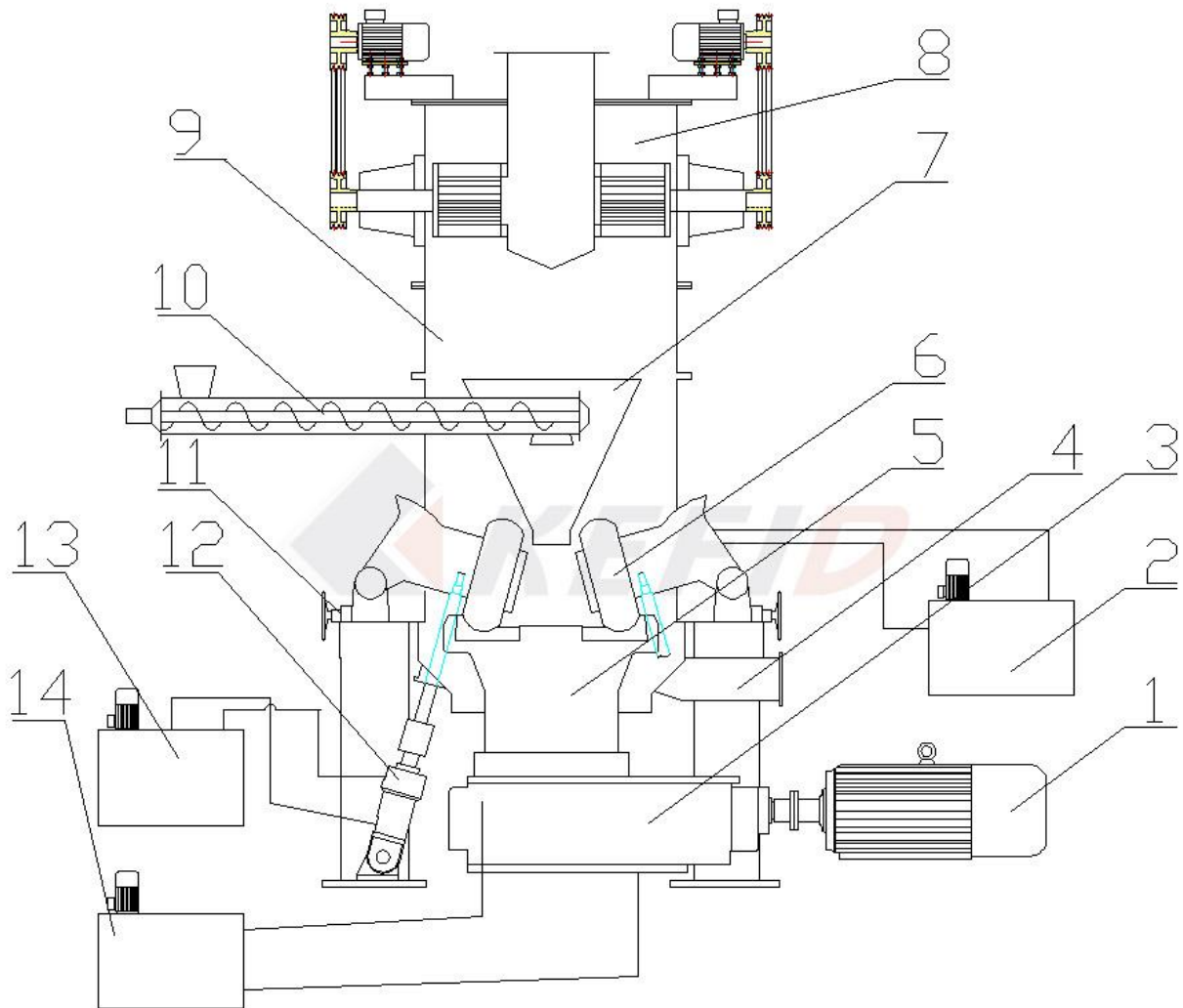
**1. Equipment upgrading.**As the grinding principle of material layer, materials stay in the mainframe for a very short time , thus decrease repeat grinding ,so the percentage of Iron is little .When it grind white or transparent material , the whiteness and purity of the finished product is higher, which ball mill cannot reach.The milled-in curve of the roll sleeve and liner plate is specially designed with the theory of ultra fine powder, which makes it easier to get material layer and the required fineness at one time when the LUM is used to grind powder.Single lubrication station is used for the rollers, in addition, double pumps for every roller with the “pumping-absorbing at one time” working style , which makes the roller bearings not only lubricated and cooled totally ,but also make sure little trapped oil and no possible leakage in the bearing chamber.Both electronic and mechanical limit device not only prevent the direct touch between the roll sleeve ,mill stone and liner plates, but also avoid destructive impact and violent vibration.



**2.Excellent products,high use efficiency.**The rotary speed of mainframe motor is changed by the frequency control, so the material to be processed is very broad.As the grinding principle of material layer, materials stay in the mainframe for a very short time , thus decrease repeat grinding ,so the percentage of Iron is little .When it grind white or transparent material , the whiteness and purity of the finished product is higher, which ball mill cannot reach.The percentage lower than 2 um in the finished product is as high as 70% , low residue when fineness is 325 mesh, also can get more finer size from the final product by second classification.

**3.Easy to operate, smart to control.**PLC/DCS automatic control is used to increase the pressure for the rollers ,which makes the pressure can be controlled accurately and no need for the manual operation.The rollers can be turned out of the mainframe to examine and repair , and it is more convenient to change the roll sleeve and liner plates ,which decrease the stop loss.Automatic control ,easy operation and long-distance control is available.

**4.Energy saving, Clean and environment.**The ultra fine theory and the multiple classifier make it save 30%-50% energy than the other types of mills when producing products with the same fineness , so it is economic.Little wear. Because the roller and the roll is not touched when the mill is working and the rollers and liner plates are made of strong- quality materials , so there is little wear and the usage life is longer.Little vibration , low noise and the sealed equipment works under negative pressure make sure no outlet powder , clean environment and can reach the national environmental requirement.



- |                                      |  |
|--------------------------------------|--|
| 1- Main motor                        | 8- Multiple Rounds Classifier                      |
| 2- The lubrication station of roller | 9- Main Body                                       |
| 3- Reduction gears                   | 10- Screw Feeder                                   |
| 4- Engine base                       | 11- Stop Block                                     |
| 5- Mill Hydraulic Station            | 12- Pressure Device                                |
| 6- 6.Roller Lubrication Station      | 13- The hydraulic pressure station                 |
| 7- Pay Loader                        | 14- The lubrication station of the reduction gears |

## Technical Parameters of LUM SERIES ULTRAFINE GRINDING MILL

Model	LUM1125	LUM1232	LUM1436
inner diameter of ring (mm)	1100	1200	1400
capacity (t/h)	5~12	7~16	8~18
fineness (mesh)400~650	~D97	~D97	~D97
max feeding size(mm)	<10 mm	< 10mm	<10 mm
input moisture	<3%	<3%	<3%
power of motor (KW)	250	315	355
quantity of roller	3	3	3
power of multiple classifier x quantity	15 KWx5	15 KWx7	15 KWx7
reference weight (t)	48	68	90

Note: Any change of MTW Series Trapezoid Mill technical data shall not be advised additionally.



# The analysis of large-scale grinding plant



## Kefid **15tph** limestone Grinding Plant in Spain



**Raw Material:** limestone

**Input Size:** 10-20mm

**Output Size:** 500mesh

**Capacity:** 15t/h

**Equipment:** LUM series superfine vertical mill LUM1436X

## Kefid **Calcite** Grinding Plant in Spain



**Raw Material:** calcite

**Output Size:** 600mesh

**Equipment:** LUM series superfine vertical mill LUM1125



## The Strength of Kefid

Kefid Machinery is a leading and pioneering enterprise with the most advanced international level in R&D, manufacturing and selling of large-scale crushing & screening plants and beneficiation plants. Located in a historic city and transportation hub in central China-Zhengzhou, covering 140 thousand square meters, Kefid has Shangjie and High-tech zone two production bases. Shangjie Zone which covers 80,000 square meters has three heavy-duty and modern integrated assembling workshops--occupying 50,000 square meters; High-tech zone has 22 floors R&D Management laboratory building with 26,000 square meters, comprehensive equipments exhibition hall with 5,100 square meters, heavy-duty and modern integrated assembling workshop with 10,000 square meters, and also has the industry's most advanced machining workshop 20,000 square meters, and hundred sets of advanced large-scale vertical lathe, fixed lathe, planner, boring lathe, grinder and milling machines.



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Your profit is our greatest concern and your praise is the biggest compliment that we diligently strive for. Our aim is, with the core of service, tailored for you the most valuable products with comprehensive pre-sale, sale and after sale service.

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## SPARE PARTS

### Grinding Plant



Ring



Roller



Shovel Base



Hinged support



Classifier Impeller

### Crushing Plant



Weights for movable



Fixed jaw plate



Movable jaw plate



Lining board



wedge

### Sand-making Equipment



Circum Guard plate



Impact Plate



Impact Block



Hammer



wearproof Plate



## PRODUCT LIST

### Stationary Crushers

JC Series Jaw Crusher  
Jaw Crusher  
C6X Series Jaw Crusher  
Primary Impact Crusher  
CI5X Series Impact Crusher  
Impact Crusher  
CS Cone Crusher  
Spring Cone Crusher  
HPT Cone Crusher  
Deep Rotor VSI Crusher  
B Series VSI Crusher  
VSI6S vertical shaft impact crusher

### VU System Equipment

Dry Sand Making System  
Dry-Mixed Mortar Sand Making Equipment  
Concrete-Use Sand Making Equipment

### Grinding Mills

Ultra Fine Vertical Grinding Mill  
VM - Vertical Grinding Mill  
European Tech. Grinding Mill  
Micro Powder Mill  
Raymond Mill  
Ball Mill

### Washing & Screening

F5X Heavy Vibrating Feeder  
Screw Sand Washing Machine  
Wheel Sand Washing Machine  
Vibrating Feeder  
Belt Conveyor

### K series mobile plants

Primary mobile crushing plant  
Mobile Secondary Crushing & Screening Plant  
Independent Operating Combined Mobile Station  
Fine crushing and screening mobile station  
Fine crushing & washing mobile station  
Three combinations mobile crushing plant  
Four combinations mobile crushing plant

### Crawler Mobile Crusher

### Ore Beneficiation

Jaw Crusher  
HPT Cone Crusher  
Ball Mill  
Rotary Kiln  
Flotation Machine  
High Gradient Magnetic Separator

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