

Vertical Mill

Link: [Gallery](#) [Get this product price](#)

The VM series **vertical mill** is an improved grand mill equipment after many years' concentrated design according to a market need. The vertical mill is designed to solve the problem of technological problems of low production, high energy consumption and developed on basic of absorbing advanced European technologies.



Features of Vertical Mill

1. Low running cost:

(1) It has high grinding efficiency, the mill adopts roller and material bed to press and grind materials. It's low in consumption, and its electricity consumption proportion can be 40% to 50% lower, with increasing of moisture of raw materials, electricity saving can be more obvious.

(2) Low wear of mental, side plate and roller are of special materials, long life span, which is able to reduce running cost and generate higher utilizing ratio;

(3) Exterior circulation device is installed, which is able to reduce electricity consumption further.

(4) Size of feeding material is big, which is about 5% of roller's diameter, generally 40-100mm, thus secondary crushing can be eliminated because of big and medium vertical mill.

2. Low construction expense:

(1)The vertical mill is simple in process. Comparing with ball mill, its soil taking can be about 50% reduced, construction expense can be reduced by about 70%, which is small in construction area and space.

(2)The vertical mill is a combination of crushing, drying, milling, grading and transferring, which has simple system and compact structure. It can be allocated in the open air and its construction expense will be lower.

3. Operation is easy and reliable

(1) Automatic controlling device is installed, which can enable long distance control and is simple in operation.

(2)There is a device to prevent direct contact between roller and mill plate, which can prevent the equipment from fragmentation serious vibration.

4. It has powerful drying ability, the vertical grinding mill adopts air to transfer materials, while grinding materials with higher moisture, wind-entering temperature can be controlled, which is able to prepare products to the final moisture requirement, materials with moisture of up to 12 to 15 percent can be dried in the vertical mill. Even drying ball mill is only able to dry materials with moisture of 3 to 4 percent.

5. It has stable quality, even grain and grade. Materials stop a short period in the mill, which is helpful for testing and controlling of products' grain and chemical composition and stable quality of products.

6. Easy to maintain, after testing, cylinder, turn rotating arm, roller, liner can be changed in a short time.

7. Environmental, and energy saving; it has small swing, low noise, less dust, which has clean operating environment and is adaptable to environmental requirements.

Application of Vertical Mill

The **Vertical Mill** is of reasonable and reliable structure design, integrated with advanced process, which is an combination of drying, mill, classification and lifting, especially in process of big mill, it can fully meet customers' needs, all key technologies, economic index are all of advanced international level. Vertical Mill can be widely used in cement,

electricity, metallurgy, non-ferrous metal ore and other industries, especially used to process various ores by grinding bulk shape, grain shape and powder shape raw materials to required powder materials.

Technical Data of Vertical Mill

Mm to inch conversion: 25.4millimeters=1 inch

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

Ore Mill:

Contents Data Model		VM130K	VM150K	VM170K	VM190K	VM220K	VM240K
Disc Dia. (mm)		1300	1500	1700	1900	2200	2400
Capacity (t/h)		10~30	13~40	18~57	23~72	36~114	41~128
Output fineness	micron	170~45	170~45	170~45	170~45	170~45	170~45
	mesh	80~325	80~325	80~325	80~325	80~325	80~325
Product moisture		≤1%	≤1%	≤1%	≤1%	≤1%	≤1%
Max.input size (mm)		<38	<40	<42	<45	<50	<55
Best input moisture		<4%	<4%	<4%	<4%	<4%	<4%
input moisture(drying required)		<15%	<15%	<15%	<15%	<15%	<15%
Inlet air temperature (°C)		<350	<350	<350	<350	<350	<350
Outlet air temperature (°C)		70~95	70~95	70~95	70~95	70~95	70~95
Main mill power (KW)		185~220	250~280	355~400	450~500	710~800	800~900
Dimension	L(mm)	3500	4200	4700	8500	10200	11700
	W(mm)	3400	3900	4500	5600	6700	7700
	H(mm)	5800	7100	8300	8800	10600	12200
Weight (t)		48	75	90	100	125	160

Notes:

1. Material should be with hardness less than 7 in Mohs'.
2. Hot air is only necessary if outlet moisture is required to be less than inlet moisture.
3. When grinding material is difficult to grind, please use the largest power.

Coal Mill:

Contents\Data\Model	VM130M	VM150M	VM170M	VM190M	VM220M	VM240M	
Disc Dia. (mm)	1300	1500	1700	1900	2200	2400	
Capacity (t/h)	10~15	16~22	20~28	26~35	35~45	40~50	
fineness (R0.08)	<15%	<15%	<15%	<15%	<15%	<15%	
Coal powder moisture	<1%	<1%	<1%	<1%	<1%	<1%	
Max.input size (mm)	<38	<40	<42	<45	<50	<55	
input moisture	<15%	<15%	<15%	<15%	<15%	<15%	
Inlet air temperature (°C)	<350	<350	<350	<350	<350	<350	
Outlet air temperature (°C)	75~95	75~95	75~95	75~95	75~95	75~95	
Hardgrove index of raw coal (HGI)	<55	<55	<55	<55	<55	<55	
Main mill power (KW)	185	250	315	400	500	560	
Dimension	L(mm)	3500	4200	4700	8500	10200	11700
	W(mm)	3400	3900	4500	5600	6700	7700
	H(mm)	5800	7100	8300	8800	10600	12200
Weight (t)	46	75	94	100	122	157	

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

Our Senior Manager



Kevin



Johnny



Peter

Contact Us

Shanghai

Tel: +86-21-58385016

Fax: +86-21-58377628

E-mail: sales@kefidinc.com

Zhengzhou

Tel: + 86-371-67999255

Fax: +86-371-67998980

E-mail: david@kefidinc.com

Products	Gallery
<p><u>Mobile Crushing Plant</u></p> <ul style="list-style-type: none"> <u>Crawler Mobile Crusher</u> <u>Mobile Jaw Crusher</u> <u>Mobile Impact Crusher</u> <u>Mobile Cone Crusher</u> <u>Mobile VSI Crusher</u> <p><u>Stationary Crushing Plant</u></p> <ul style="list-style-type: none"> <u>Jaw Crusher</u> <u>Impact Crusher</u> <u>Cone Crusher</u> <u>VSI Crusher</u> <p><u>Aggregate Production Line</u></p> <ul style="list-style-type: none"> <u>Stone Crushing Plant</u> <u>Sand Making Plant</u> <p><u>Grinding Mill</u></p> <ul style="list-style-type: none"> <u>Vertical Mill</u> <u>MTW Series Trapezoid Mill</u> <u>European Hammer Mill</u> <u>Micro Powder Mill</u> <u>Trapezium Mill</u> <u>High Pressure Mill</u> <u>Raymond Mill</u> <u>Ball Mill</u> 	<p><u>Crushing</u></p> <ul style="list-style-type: none"> <u>Mobile Crushing Plant</u> <u>Stationary Crushing Plant</u> <u>Jaw Crusher</u> <u>Impact Crusher</u> <u>Cone Crusher</u> <u>VSI Crusher</u> <p><u>Aggregate Production Line</u></p> <p><u>Grinding Mill</u></p> <ul style="list-style-type: none"> <u>Vertical Grinding Mill</u> <u>MTW Series Trapezoid Mill</u> <u>Micro Powder Mill</u> <u>Trapezium Mill</u> <u>High Pressure Mill</u> <u>Raymond Mill</u> <u>Ball Mill</u> <u>European Hammer Mill</u> <p><u>Screening & Washing</u></p> <ul style="list-style-type: none"> <u>Vibrating Screen</u> <u>Sand Washing Machine</u> <p><u>Feeding & Conveying</u></p> <ul style="list-style-type: none"> <u>Vibrating Feeder</u> <u>Belt Conveyor</u>



**MOVING FORWARD TOGETHER
WITH KEFID**



<http://www.kefid-crusher.com>
sales@kefidinc.com

Screening & Washing

Vibrating Screen

Screw Sand Washing Machine

Wheel Sand Washing Machine

Feeding & Conveying

Vibrating feeder

Belt Conveyor

Delivery of Products

Technology

Workshop

Clients Visit and Exhibiton

Corporate Culture