

# Vertical roller mill

## Introduction to the Vertical roller mill([grinding mill](#))

[Vertical roller mill\(grinding mill\)](#) Is a kind of crushing equipment featuring high-efficient and energy-saving. And **Vertical roller mill(grinding mill)** have integrated the crushing and grading into a single whole , which have satisfied the various requirements of the customers and materials. And at the same time , we company also have the super thin grinding mill of **Vertical roller mill** ,which have been catogrized as the new &high energy-saving products in the eight fifth period by the national cement development center .



## Technical features of [Vertical roller mill\(grinding mill\)](#)

1.The materials will receive the circular crushing process by the crushing and grading. With no over-grinding phenomenon ,the [Vertical roller mill](#) have greatly improved the powder grinding efficiency .

2. **Vertical roller mill** is equipped with the grading system and the grading impeller will adopt the new and high structure design .With high grading precision ,the fine powder will have no coarse particles by the grading process.

3.The main units of the [Vertical roller mill](#) and grading driven electric motor will be controlled and adjusted by the frequency converter. And with the stable function and generability, the **Vertical roller mill** can be used to crush the materials with various features and the production process and the particle size can be adjustable .

## Application of the [Vertical roller mill](#)([grinding mill](#))

**Vertical roller mill** are mainly applied to proceed the powder crushing manufacturing of the materials such as calcite, limestone, light dry stone coal, barite, fluorite, glaze, slag, wollastonite, kaolin, vermiculite, mica, feldspar, brucite, spores, potassium salt slag, garnet , quartz,etc.And the **Vertical roller mill** can also be used to the non-metal mining areas with the Mohs hardness of less than 7degree ,such as mining metallurgy, chemical industry, electronics, medicine, food, daily chemical, agricultural, building ,and so on.

## Working principle of [Vertical roller mill](#)([grinding mill](#))

Flow of material through the **Vertical roller mill** of the separator when, the motor will drive the plate to rotate by the reducer and then the materials will fall down on the central place of the plate from the inlet by the air-locking feeder .While at the same time , the hot air will enter the grinder from the air inlet.With the rotation of the plate , the materials will move to the edge of the plate by the centrifugal force and the materials will receive the pressure from the roller and be crushed when it passes the circle ring sink on the plate.The crushed materials will be brought away by the high speed air and the big size will fall down on the plate and be regrinded .And the coarse powder will fall down from the cone hopper and then repeat this kind of process when materials in the air stream pass the upper separator by the effect of the rotors.And during the process , the fine powder will flow out with the air stream .By the dust catcher , the final products will be collected .The materials with moisture will be dry when it contact with the hot air stream.By adjusting the temperature of the hot air,we can satisfy materials with various moisture degree , thus achieving the required products moisture.By the separator , we can also achieve the required coarse and fine degree of the products .

## Main technical parameters of [Vertical roller mill](#) ( grinding mill )

Specification	Capacity(t/h)	Humidity of Raw Coal	Fineness of Powder	Humidity of Powder(%)	Motor Power(kw)
CLM1250M	7-12	<15%	5-12%	≤1	132
CLM1300M	10-15	<15%	5-12%	≤1	185
CLM1400M	12-17	<15%	5-12%	≤1	200
CLM1500M	16-22	<15%	5-12%	≤1	250
CLM1700M	20-28	<15%	5-12%	≤1	315
CLM1900M	26-35	<15%	5-12%	≤1	400
CLM2200M	35-45	<15%	5-12%	≤1	500
CLM2400M	40-50	<15%	5-12%	≤1	560
CLM2800M	50-62	<15%	5-12%	≤1	710

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