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### SHIBANG STRAIGHT CRNTRIFUGAL GRIDING MILL



#### Introduction

The Straight Centrifugal Grinder, China patent product owning advanced international technology, is our latest grinding machine, which is designed by our expert in grinding equipment with great concentration, on the basis of a long time' producing practice , And it opens an industrial grinding new time with high efficiency and low energy consumption.

#### Application

The machine is on purpose to grind mining materials in the fields of metallurgy, building materials, chemistry, mining and so on. It can grind the non-flammable and non-explosive mineral materials with the Moh's hardness lower that scale 9.5 such as quartz, feldspar, calcite, talcum, barite, fluorite, rare earths, marble, ceram, bauxite,

manganese ore, iron ore, copper ore, phosphate rock, colcothar, zircon, slag, cement clinker, acticarbon, dolomite, beresite, garnet, iron oxid yellow, bean cake, chemical combination, compound fertilizer, fly ash, soft coal, charred coal, lignite, magnesite, chrome green, gold mine, red mud, clay, kaolin, coke, gangue, porcelain clay, cyanite, fluor, bentonite, maifanshi stone, liparite, muddy green rock, pyrophyllite, redware rock, basalt, gypsum, graphite, Carborundum, heat insulator.

## **Features and Benefits**

### consumption saving

The amount of energy consumption which the straight centrifugal grinder's blower consuming is only 6% of mill, but Raymond Pulverize is 81%. In addition, the consumed energy when the speller slides the stone occupies 25% of the whole energy, but straight centrifugal grinder does not exist.

### High efficiency

In same condition, the grinding roller of straight centrifugal grinder can be through an area 2.3 times larger than Raymond Pulverize .

### High using rate

Grinding roller and grinding ring of Raymond Pulverizer are sunken in middle parts, so the metal amount that discarded is only 35% of original weight, but materiel in straight centrifugal grinder fall from top to bottom, so the metal amount can reach high to 55%.

### Accident insurance

If bolt or iron ore falls into the Raymond Pulverize, this will conduce to breaking shovel and roller suspender transmutation. But straight centrifugal grinder will not appear such condition.

### Well using against high hardness and hard-process material

As for some high-rigidity material, such as carborundum, corundum, zirconium, the output will fall down because the grinding roller and grinding ring of Raymond Pulverize are sunken in middle parts. But in straight centrifugal grinder, it skives material up and down equably, so the output shows much more stabilization.

### Wet production

Water is allowed using in Straight centrifugal grinder.

### Occupation of area is small

It does not need to allocate whirlwind separator and a lot of pipelines .etc, so the occupation of land space is small.

## **Working principle and main structure**

The system consists of main unit, blower, cloth dust cleaner and pipes.

The working principle is as follows. The central axle is rotated by motor. The roller suspender is connected with the bottom of the axle. The roller setting is set on the suspender. The roller suspender not only rotates with central axle, but also rotates under the friction of ring. The materials fall down from the

hopper on the top of the machine to the clearance between roller and ring. Under the extrusion of the centrifugal force, materials will be crushed to pieces. The crushed materials will discharge naturally from the discharging valve. When the mill is working, blower will attract hot air in the mill and the cold air outside will swarm into because of negative pressure. So the heat coming from the working procedure will be taken away, which will lengthen the lifetime of the bearing and other spare parts. The air taken by the blower is sent into cloth dust cleaner, which will collect the fine powder. The purified air is discharged into the atmosphere.

When the system is working with wet method, blower and dust cleaner are not necessary.

### Specification

Model	Input size (mm)	Size of finished product (mm)	Capacity (t/h)	Power of the mainframe (kw)	Dimension (mm)
ZTM86	< Φ16	0-2.8	7-11	37	2500×1550×2760
ZTM125	< Φ25	0.044-5	15-55	90-110	Φ2300×5600
ZTM165	< Φ35	0.044-5	30-120	185-200	Φ3600×8200

Note: This specification is just reference, any changes are subject to the products