

# SCM super fine grinding mill

## SCM super thin grinding mill brief introduction:

SBM SCM series super thin mill (grinding mill) is on the bases of our company's production experience for more than 15 years. We absorb technology advantages from the same field abroad and home. We organize elite powder processing experts to investigate, research and try on 12 kinds of mills and horizontal hammer crushers. And finally we developed this high-efficiency and low-cost super thin mill.

## SCM super thin grinding mill is suitable for:

SCM series super thin grinding mill is a grinding machine which produces thin powder and super thin powder. SCM Series super thin mill is mainly applied to the powder processing of mineral products in industries of metallurgy, construction, chemistry, Fertilizer and mining etc.

SCM super thin grinding mill can produce powder from non-flammable and non-explosive mineral materials with Mohs hardness below 9 and humidity below 8%, such as barite, limestone, quartz, calcite, granite, porcelain clay, basalt, gypsum, calcite, chalk, limestone, dolomite, kaolin, bentonite, talcum, talc, magnesite, illite, pyrophyllite, vermiculite, sepiolite, attapulgit, rectorite, diatomite, barite, gypsum, alum earth, graphite, fluorite, variscite, potash ore, floatstone.

## SCM super thin grinding mill features and main benefits:

- 1) High efficiency.  
Under the same condition of finished particle size and power of motor, the output is 40% higher than airflow mill and whisk mill.
- 2) Environmental protection.  
Pollution and noise are lightened by using deduster and muffler so as to reach the requirement of national environmental protection.
- 3) High safety.  
No axle tree or bolt is used in the grinding chamber, so there will be no worn out problem of bearing and sealing parts, and also no loose of bolts.
- 4) Finished size can reach to  $d_{97} \leq 5\mu\text{m}$ .
- 5) High using rate of spare parts.  
Under same condition of material and finished particle size, the lifetime of the spare parts is longer than that of impact crusher and turbine crusher.

## SCM super thin mill main structure:

The whole system of the super thin grinding mill consists of main unit, deceleration machine, classifier, blower, hammer crusher, dustpan elevator, electro-magnetic vibrating feeder, impulse dust cleaner, piping device, cyclone collector device, classifier, high-pressure motor and muffler.

## How SCM super thin grinding mill works?

The main motor drives main axle and every layer rotating by the power of reducer. Dial drives

numbers of rollers rolling and rotating in the ring by pintles. Big materials are crushed into small particles by hammer crusher. Then they are sent to store house by elevator. Vibrating feeder send the materials evenly to the middle of the upper dial. Under the function of the eccentricity, the materials fall into the ring to be pressed, crushed and milled into pieces by rollers. After the first crush, materials fall into the second and third layer. The pumping of the high-pressure centrifugal blower put the outside air into the machine. The coarse powder will be brought into the classifier. The rotating turbine in the collector makes the coarse particles fall back for regrinding. The fine particles will come into the cyclone collector with the airflow and discharged by the discharging valve on the bottom of the collector. They are the final products. The airflow with little dust will be discharged through blower and muffler after being purified by the cyclone collector.