

YGM high pressure grinding mill

YGM high pressure grinding mill brief introduction:

SBM high pressure suspension mill (Sales code: YGM) is a new type grinding mill, which is developed on the basis of Raymond mill by our CTO, who has been engaged in the research and development of grinding mills for many years. This new patent product with high efficiency and low energy consumption opened up an epoch of the international industry pulverizing.

High pressure grinding mill is suitable for:

SBM high pressure grinding mill is mainly applied to the powder processing of mineral products in the industries of metallurgy, construction materials, chemical, and mining, etc.

Compared with the Raymond grinder, under the function of strong pressure spring, the pressure between roller and materials can be improved by 1500KgF; the output can be improved by 10% under the same powder condition.

SBM high pressure grinding mill can produce powder from various non-flammable and non-explosive mineral materials with Mohs hardness below 9.3 and humidity below 6%, such as quartz, feldspar, calcite, talcum, barite, fluoride, Xircom, cinder, white lime, cement clinker, activated carbon, dolomite, granite, soft coal, coking coal, lignite, magnesia, chromium oxide green, gold ore, red clay, clay, kaolin, coke, coal Gangue, porcelain clay, kyanite, fluorspar, bentonite, medicinal stone liparite, diabase, pyrophyllite, shale red stone, emeraldite, basalt, gypsum, graphite, carborundum, heat insulating material, etc.

The sizes of powder can be controlled ranging from 80 to 480 meshes, the minimum size can reach 1000 meshes. By being equipped particular parts, the High pressure mill can produce thick powders ranging from 30 to 80 meshes and output will be higher.

High pressure grinding mill features and main benefits:

- 1) Compared with the common Raymond grinding mill under the same power conditions, the capacity of high pressure grinding mill can be increased by 10%-20%, and compression force of rollers to material improve 800-1200kgf under the force of high-pressure spring.
- 2) All the mineral materials with Mohs hardness below 9.3 can be crushed.
- 3) The final product size ranges from the maximum particle diameter of 0.95mm (20mesh) to the finest diameter of 0.038mm (400 mesh). Some can reach the fineness of 0.013mm (1000 mesh).
- 4) High pressure suspension grinding mill's dust-removing effect fully meets the national dust discharge standard.
- 5) The classifier is easy for adjustment
- 6) The grinding machine adopts a superposition multi-grade sealing with good sealing performance.

How high pressure grinding mill works?

In the mainframe of High Pressure Suspension Mill, there are strong springs with pressure as high

as 1000-1500 kg equipped on the roller suspender. When it works, the roller rotates around the principal axis, and clings to ring under the effect of the strong spring and eccentricity. When the materials are sent into the grinding chamber, they are brought to the space between the roller and ring and get grinded. Then the powder grinded will be blown into separator. The fine powder after departed with the air is discharged through the outlet as final product. The large-sized powder falls back for regrinding. The air will be back to the blower for repetition of the above process. The left air will come to the bag filter to get cleaned. When the wear and tear between roller and the ring reaches certain degree, adjust the length of the strong spring, so to keep the invariable pressure between the roller and the ring, to make sure the stable production and the fineness.

High pressure grinding mill main structure:

The whole system of high pressure grinding mill consists of main frame, decelerator, classifier, piping device, blower, jaw crusher, dustpan elevator, electromagnetic vibration feeder, and electric switch box motor, etc.