

Ball Mill

Ball mill is the key device for further grinding after crushing of materials. Ball mill is suitable for dry- or wet-type milling ore of various kinds and other material for grinding, which is widely used in the fields of cement, silicate products, new-type building materials, refractory, fertilizer, metallurgy, glass ceramics, mining industry and so on. In comparison with old-fashioned ball mill with slide bearing, power-saving rate is 5%-10% for average yield and the ability to deal with ore has increased by 15%.



Working principle:

Ball mill, a kind of horizontal drum-type rotating device, is a grate mill with external gear and double bins. Materials shall be evenly charged through quill shaft in feeding device into the first bin, which has step or waved lining with steel balls in different specifications. Steel balls are taken to a certain height by centrifugal force from drum rotation and then fall. Thus it will give a heavy blow to materials, playing a role of grinding. Materials after crushed in the first bin shall enter bin across single-layer diaphragm into the second, which is provided with flat lining with steel balls, to go

through further grinding. Powder shall be discharged from discharging grating, ending the milling process.

Structural feature:

Ball mill is mainly composed of charging and discharging, cyclone and rotation parts (like redactor, minor rotation gear, motor, electric machine, etc). Hollow axis is made of steel parts with a lining replacable. Major rotation gear, machined by rolling wheel of casting, is lined with wearing plate with fine wear-resisting property. This machine runs stably and reliably.

Note: this company can provide for clients various ore-dressing flow diagrams and drawing of ball mill as well as item design, process design and standard and non-standard product design and manufacture for user.