



High -intensity mill

High-intensity mill belongs to Raymond mill series; it is mainly used in milling of barite, limestone, ceramics and slag with Mohs hardness below 9.3 and moisture below 6%. It is commonly used in mine, metallurgy, chemical and building materials. This machine is available for more than 280 kinds of materials for the ultra-fine grinding with granularity of finished products between 80-425 mesh (1000 mesh minimum). Coarse powder between 30-80 mesh can be produced by adding special device in the shell body.



Work process:

There is a high pressure spring with 1000-1500 kg of tension on the suspending shelf of rolls inside of the mill shell. The mill rolls turn around the main shaft, under the high pressure of spring and eccentric force, they contact tightly with the inner mill shell; under the same condition, the pressure ratio is 1.2 time higher than that of Raymond mill, therefore, they are more efficient. Material is sent to be grinded between rollers and mill shell by blades, after the grinding, powder is sent to the analyzer by the blower fan, the eligible powder flows into the cyclone container and the unqualified will be sent back for re-grinding. Length of high pressure spring can be adjusted freely so that abrasion of rolls could not affect the quality.

High -intensity mill technical parameters



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| Type | High-intensity mill 96 | High-intensity mill 95 | High-intensity mill 83 |
|--|------------------------|------------------------|------------------------|
| Particle size of feed(mm) | ≤ 25 | ≤ 15 | ≤ 20 |
| Particle size of finished product(mm) | 0.125-0.044 | 0.125-0.044 | 0.125-0.044 |
| Shift output at different material fine degree | 4-55 T | 3-38 T | 3-33 T |
| Rotate speed of central shaft | 130 r/min | 130 r/min | 160 r/min |
| Inner diameter of pulve rizing ring | 970mm | 950mm | 830mm |
| Diameter of pulverizing roller | 320mm | 310mm | 270mm |
| Height of pulverizing ring | 160mm | 170mm | 150mm |
| Electrical machine of main frame | Y 225m-4-45 | Y225s4-37 | Y 225m-8-22 |
| Electrical machine of blower | Y 200L-4-30 | Y 200L-4-30 | Y160E4-15 |
| Electrical machine of analyzer | Yc120-4A-5.5 | Yc122-4A-5.5 | Y 112m-6-2.2 |