

Introduction to Jaw Crusher

Jaw crusher can be used as the primary crusher to the medium size crushing of various ores and large-size materials , with the anti-crushing pressure of less than 320Mpa.And the jaw crusher can be divided into two kinds such as coarse and fine crushing .And this series of jaw crusher have complete specifications with the feeding particle size of 125mm~750mm,which have become the primary crushing equipment .And the jaw crusher can be used in the field of mining, metallurgy, building material, highway, railway, water conservancy and chemical, etc.



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This series of jaw crusher can reach the crushing ratio of 4-6 and the shape of final product is even. They are widely applied to crush high hardness, mid hardness and soft rocks and ores such as slags, construction materials, marble, etc. The pressure resistance strength is under 200Mpa, that is, suitable for primary crush. Jaw Crusher can be used in mining, metallurgical industry, construction, road and railway building, conservancy, chemistry, etc.

Working environment of the jaw crusher

The crushing process that the large stone become small stone is called the primary crusher .And the most common and solid crusher is the jaw crusher. During the feeding process of the jaw crusher ,the materials can enter the crushing cavity with the jaw gear from the top entrance .And the jaw gear will push forward the materials to the cavity with the strong force to crush them to some more small stones .And it is a eccentric shaft to support the movement of the jaw gear ,and this shaft have supported the whole machine frame .And the eccentric movement is caused by the flywheel fixed on the both end of the shaft .The flywheel and eccentric supporting bear often adopt the spherical roller bearing so that the working environment of the bearing is more hard .And the bearing must bear the huge impact overload ,erosion water pollution and the high temperature .However ,the Jaw crusher can also ensure the reliable work ,which have also become the key link of the production effect. Though the hard working environment ,the jaw crusher can still proceed the very reliable function ,which is the key link of the production efficiency.

Jaw Crusher Features

1. Deep crushing cavity and no dead time control have improved the feeding capability and the production output .
2. Large crushing ratio and even particle size.
3. asket discharge opening adjustment equipment makes the function more reliable and convenient , adjustment more large ,and the equipment more flexible .
4. The lubrication system more secure and reliable , the spare parts can be more changed ,and low maintenance working.
5. Simple structure and reliable function , low operation cost
6. Energy-saving : the single machine can make the energy-saving about 20%~35% and the system energy-saving over one time.
7. Large range of the discharge opening range can satisfy the various requirements of the customers
8. Low noise and dust pollution.

Working principle of jaw crusher

The jaw crusher has many kinds of structures while their working principle are similar. This working manner of jaw crusher is hyperbolic extrusion. And its working principle is as follows. Through the motor's wheels, the eccentric shaft is driven by the belt and the belt wheel to make the jawstock move by a regulated track. The angle between the toggle plate and jawstock will become large as the up of the jawstock. This will push the moveable jaw plate towards the fixed jaw plate, which can realize the multi-crushing of the materials. The angle between the toggle plate and jawstock will become small as the down of the jawstock. The moveable jaw plate will leave the jaw plate at the pressure of the tension rod and spring , meanwhile ,the final products will be discharged from the discharge opening. Along with the continuous rotating , the crusher will complete the periodic crushing and discharging movement ,which can realize the batch process.

As the professional [jaw crusher](#) manufacturer, SBM will provide you with the most professional crushing equipments and all-around services. You are welcome to SBM China for detailed information about our [Jaw Crusher Machine](#).

