

## **Jaw Crusher, crusher machine, jaw crusher in china, jaw crusher's main structure**

Appeared in 1858, [Jaw crusher](#) is also called tiger mouth and firstly applied in the road building projects and later the mines. At present, it has found jaw crushers extensive use in the mining, metallurgical industry, construction, road and railway building, industry, chemistry, etc. And jaw crushers pressure resistance is under 320MP. And the Jaw crusher produced by our company features simple structure, reliable function, long service life, low noise & energy consumption, low operation cost, convenient maintenance. So jaw crusher has occupied the absolute leading position.

### **Main Structure of jaw crusher**

Jaw crusher mainly consists of fixed & moveable parts, secure & set adjustment and other components.

1 Fixed parts: the frame is the main fixed parts of the jaw crusher and there also have two mechanic manufacture crafts: medium carbon steel cast and steel welding plate frame. The welding frame have more several steel ribs on the basis of previous cast frame, which have reached the same using effects under the strict jaw crusher control and specific crafts requirements. To avoid serious wearing of frame's sidewall, the guard has been installed on both sides of the crushing cavity jaw crusher so that we can change them at any time.

2 Moveable part: jaw crusher mainly consists of jaw stock, eccentric shaft, bearing, belt pulley and other components, which are the main parts of jaw crusher's transmitting and bearing capability.

a. The jaw stock consists of the bracket and moveable jaw plate and the bracket adopts the 35# cast steel, which have been adjusted and processed.

b. The eccentric shaft adopts the 45# steel, which have also been adjusted and processed.

c. The bearing adopts the double-row spherical roller with the features of slight adjustment, large bearing capability and durability.

d. There have moveable and fixed jaw stock. To improve the crushing effect, jaw crushers surface adopts the optimization tooth shape and the materials adopts the ZGMn13 with the advantages of high hardness, abrasion-resistance, better effects and so on.

3 Set Adjustment equipment: jaw crusher is mainly used for adjusting the size of the discharge opening so that jaw crusher can control the discharging particle size. And jaw crusher mainly has two forms, that is long wedge and prop gasket, jaw crusher flexible and no limit adjustment.

Jaw crusher consists of frame, eccentric shaft, jaw stock, toggle plate, cheek plate (up and down), set adjustment, fixed and moveable jaw plate. And the toggle plate also play a role of security jaw crusher. The jaw crusher produced by our company adopts high-strength Mn-steel and has been forged with one time shaped with features of abrasion-resistance, pressure-resistance and long service life. And now jaw crusher has been suit for crushing the large, mid & small stones and corresponding materials.

### **Working Principle of jaw crusher**

This kind of jaw crusher uses motor as jaw crushers power. Through the motor's wheels, the eccentric shaft is driven by the belt and the belt wheel to make the jaw stock move by a regulated track. And the materials will be crushed by the regular periodic movement. The materials between the two jaw plates will receive multi-crushing functions on the jaw plate. From the beginning, the pressure is small and the volume of materials will be reduced when the space between the materials become closed and compact. And crush will happen when the pressure become high up when the strength materials can not bear. On the contrary, the materials will make free falling movement when the jaw stock swing with the opposite jaw crusher direction with the fixed jaw plate. The materials will be crushed in every periodic movement and delivered down a distance. After several kind of these periods, the final

products will be discharged by the discharge opening .

**Technical Features of jaw crusher**

- 1 The Jaw Crusher features simple structure
- 2 The Jaw Crusher features convenient maintenance
- 3 The Jaw Crusher features stable performance
- 4 The Jaw Crusher features low operation cost
- 5 The Jaw Crusher features large crushing ratio

**Products Advantages of jaw crusher**

Jaw crusher produced by our company features simple structure ,reliable function ,long service life, low noise & energy consumption, low operation cost, convenient maintenance. So jaw crusher has win jaw crushers own international welcome and occupied the absolute leading position.

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