

Crusher machine ,crusher machine in china,crusher machine's working principle

VSI Crusher machine

Based on German's authority technology and our year's improvement, VSI sand making machine is the third generation high-efficient sand-making equipment with world advanced technology. It is the exclusive production of Shanghai Shibang Group in China . And it particularly provide quality sand aggregate for highway, high railroad, high-rise buildings, municipal, hydropower and Dam, as well as the concrete batching plant. At present, VSI sand making machine has become the primary choice in the artificial sand and stone shaping field .

Application of vis **crusher machine** :

- 1 Artificial sand about the river gravel, mountain stone, ore tailings, and stone chips .
- 2 Production about the construction aggregate, road fabric, tier pads, bituminous concrete and cement concrete aggregate production.
- 3 Sand production and stone shaping in the field of hydropower, high grade road, highway, high-speed railroad, bridge, and the municipal project.
- 4 Primary fine crush crafts in the mine area and the materials crush in the field of construction, metallurgy, chemics, mining, refractory materials, cement, abrasion and so on .
- 5 High erosion and second disintegration, and some environment-friendly project about rubbish disposal of sulphur, steel slag, and construction in the field of thermal power, metallurgy.
- 6 Production about glass, quartz sand, and other high purity materials .

Main Structure of crusher machine

VSI sand making machine's main structures are as follows : motor, shaft comp, impeller, feeding hopper, classifier, crusher cavity, frame, hydraulic equipemnt and so on.

Working Principle of crusher machine

Abiding by the advanced selection crushing and splitting principle, it can directly provide enough energy for the materials and divert the motion energy into the crushing energy the material need to be crushed by the impact. The materials are crushed as the natural and cleavage surface texture with the characteristics of even particle and low consumption. And VSI sand making machine realize the conversion between the two priciple of "stone to stone" and "stone to iron".

Feeding at center of crusher machine

The material falls down into the feed hopper, and then enter the high speed impeller through the central feeding hopper, and at last they will be thrown out from the impeller. The materials strike with the materials that are freely falling down and then crush togetherly to the vortex liner and are rebounded to the top of vortex cavity, and then falling down. The falling materials with the shoot materials form a continuous materials curtain . After several this kind of repeating, the final materials will be discharged from the discharging opening .

Feeding both at center and sides:

Raw material falls down into the feed hopper and the circle ring, and then they are divided into two divisions by the distributing plate. One enters the high speed impellor and then they will be accelerated and thrown out from the impeller. The other falls down from the sides of distributing plate. Then this two kinds of materials will crush with each other, and then strike togetherly to the vortex liner and are rebounded to the top of vortex cavity, and then falling down. The falling materials with the shoot materials form a continuous materials curtain . After several this kind of repeating, the final materials will be discharged from the discharging opening .

Technical Features of crusher machine

Advanced and reliable dual pump oil supply lubrication system ensures the low tempeture of the main bear, long service life, reliable operation, extended maintenance period . Equipped

with the high-precision imported rolling bear,main bear have experienced better operation stability and extended service life.The hydraulic uncap assembly which make the maintenance easier and more convenient.

VSI sand making machine has been equipped with the indication and alarm equipment for the excess vibration. So if the excess vibration occurs,it will give off the alarm. With unique dust-free design, main bear will completely not let the dust enter the bear lubrication,which can ensure the normal function .With unique feeding crushing structure,it can realize the conversion between the feeding at center and feeding both at center and sides,which can meet requirements of various clients .It have realized the process of stone to stone and stone to iron and also the shaping and crushing of the sand.Optimized polishing head and its alloy shape improve the metal usage and extend the service life .

Products Advantages of crusher machine

VSI sand making machine produced by Shanghai Shibang Group features large processing ratio,high production,low wearing consumption,even particle shape,hydraulic pressure equipment,easy maintenace,convenient installation and operation, automatic inspect and maintenance, reliable and security, multi-usage, flexible application, light lubrication, international quality promise, environment -friendly focus. And all of these have win its international welcome .

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