

Crusher machine,PCL Crusher Machine,crusher machine's working principle

PCL Crusher Machine produced by Shanghai Shibang Group are suitable for crushing and shaping the soft, mid and extreme hard materials. And it has found its extensive use in the ores, cement, fire-proof, glass, silicon carbide, and bauxite chamotte, especially in the mid & fine field of more and most hard materials. More applications have been found in the mechanical construction sand, stone and other various metallurgy slag crushing, which has more efficiency than other type of crushing machine.

With low consumption wearing, it has also been adopted by the high erosion and second crushing production. What's more, with the feature of no pollution to the products, it can better fit for the production of the

Glass and quartz sand and other high purity materials production. With the production range of 10-500t/h, it can almost satisfy any production requirements. It can deal with all kinds of metallurgy slag when it goes with the hydraulic protection jaw crusher and is especially suitable for the construction and road building sand. At present, it has replaced the hammer crusher, rolls crusher, rod mill and other traditional equipment so that it has become a major equipment in the sand-making industry.

Main Structures of PCL Crusher Machine

The main structure of PCL Crusher Machine includes feeder and classifier, whirl crushing cavity, impeller, shaft assembly, transmission mount and motor.

Working Principle of PCL Crusher Machine

Raw materials fall down into the feeding hopper, and then they are divided into two divisions by the classifier. One part enters the high speed impeller and then they will be accelerated and thrown out from the impeller, whose speed can reach hundreds of acceleration, then is shot through the tunnels around the impeller by the speed of 60-70m/s. First the materials will impact with some materials falling around classifier and then impact togetherly on the vortex liner and are rebounded to the top of vortex cavity, and falling down with direction changing. The falling materials with the shoot materials form a continuous materials curtain. After several times of repeating, this course will form many times of closed circling line and the final materials will be discharged from the discharging opening when the size have reached the standard the screening equipment set. During the circling closed line, the materials will be crushed below 20 times after 3 kinds of this circling. What's more, the materials will crush with each other with no direct touch with the metal components. On the contrary, they will crush and grind with the material liner, which will reduce the pollution and extend the mechanical service life. And there also has its own air circulation in the vortex cavity, which have reduced the dust pollution.

Technical Features of PCL Crusher Machine

- (1) Simple structure, low operation cost
- (2) High crushing efficiency and energy saving
- (3) Primary and second crushing capacity
- (4) Low influence of the moisture in the materials and the moisture amount can reach around 8%.
- (5) Low noise and dust pollution
- (6) Crushing mid & most hard materials
- (7) Final product with cubic shape, high pile density, and low iron pollution.
- (8) Low impeller wearing and Convenient maintenance

Products Advantages of PCL Crusher Machine

PCL Crusher Machine produced by Shanghai Shibang Group features simple structure, low operation cost, stone to stone principle, convenient maintenance and so on. All of these features have won its own international welcome.

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