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SHIBANG Vertical shaft impact crusher



Introduction

The vertical shaft impact crusher, also called sand making machine and rubble shaping machine, is a kind of crusher impacted by the materials themselves. It is of high energy but low consumption and of international advanced level developed by introducing foreign outstanding technology of the same type of products. At present, it is the most advanced and practical equipment for medium-sized and fine crushing and shaping.

Application

This product is applied widely for the powder process of mineral product including metal and non-metal ore, fireproof material, bauxite, diamond dust, glass raw materials, architectural materials, artificial sand and all kinds of metal ore materials, especially which has more advantages than any other machines in processing the more and most hard materials.

Features and Benefits

- Simple structure ,low cost
- High efficiency and low consumption
- Primary and second crushing capacity
- More naf most hard materials can be crushed
- Cubic shaped fina product
- Little noise and dust pollution
- Conveniengt performance, maintenance, installation



Working principle

The Whole PCL vertical impact crusher including feed hopper, classifier, whirlpool cavity, impeller, main bearing assembly base, transmission device and motor etc. Operating principle is as follows: the materials enter the crusher through feeder hopper, which is divided into two parts, one part through the middle of classifier entering into the rotating impeller at high speed, then accelerated, whose speed can reach hundreds of acceleration, then is shot through the tunnels around the impeller by the speed of 60-75 meter/second. First the materials will impact with some materials fallen around classifier, then impact on the whirlpool cavity's scaleboard together, then will be rebounded and impact on the top of the whirlpool cavity, then changes its direction and goes down, forms continual material layers with the materials shot from the impeller. Therefore some materials will be impacted, crushed, milled twice or more times in the whirlpool cavity, then crushed materials will be excluded through the bottom discharging hole. This can form a closed circulation through the circular classifier system; in general, materials can be crushed into 20 mesh through thrice circulation. Airflow self-circulation in the whirlpool cavity can eliminate the dust pollution well.

Specification

Model	Max. feeding (mm)	Power(Kw)	Impeller speed (r/min)	Capacity (t/h)	Overall dimension(mm)	Weight(T)
PCL-600	30	2×30	2000-3000	12-30	3000×1500×2050	5.6
PCL-750	35	2×45	1500-2500	25-55	3300×1800×2440	7.3
PCL-900	40	2×55	1200-2000	55-100	3600×2140×2620	12.1
PCL-900B	40	2×75	1000-1450	65-130	3600×2140×2620	13.6
PCL-1050	45	2×(90-110)	1000-1700	100-160	4480×2450×3906	16.9

PCL-1250	45	2×(132-180)	850-1450	160-300	4520×2640×3100	22
PCL-1350	50	2×(180-220)	800-1193	200-360	5340×2940×3650	26

Note: This specification is just reference; any changes are subject to the products.