

PCL Vertical Shaft Impact Crusher - Cone Crusher



PCL Vertical Shaft Impact Crusher

Application:

PCL Vertical Shaft Impact Crusher 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 and low cost
- High efficiency and low consumption
- Primary and second crushing capacity
- More and most hard materials can be crushed
- Cubic shaped final product
- Little noise and dust pollution
- Convenient performance, maintenance, installation

Working Principle of PCL Vertical Shaft Impact Crusher:

The Whole PCL vertical shaft impact crusher includes feed hopper, classifier, whirl pool 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.

Specifications of PCL Vertical Shaft Impact Crusher:

Model	Max. feeding (mm)	Power(Kw)	Impeller speed (r/min)	Capacity (t/h)	Outer dimension :LxWxH (mm)	Weight(T)
PCL-600	26	2x30	2000/2600	8-50	3300x1500x2050	5.4
PCL-750	35	2x45	1500/2500	25-55	3300x1800x2440	7.3
PCL-900	30	2x(55-75)	1300/1700	55-120	3600x2140x2620	12.1
PCL-900B	40	2x(75-110)	1000/1450	60-150	3600x2140x2620	13.6
PCL-1050	40	2x(90-110)	1000/1700	100-160	4480x2450x3906	16.9
PCL-1250	40	2x132	950/1200	100-200	4520x2640x3100	22
PCL-1350	60	2x220	800/1200	160-360	5300x2900x3200	26

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