

## PCL Series Crusher

PCL Series [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.



### **Working principle:**

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, crusher, 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.

### **Features and Benefits:**

1. Simple structure and low cost.
2. High efficiency and low consumption.
3. Primary and second crushing capacity.
4. More and most hard materials can be crushed.
5. Cubic shaped final product.

6. Little noise and dust pollution.

7. Convenient performance, maintenance, installation.

**Technical Data:**

Model	Max feeding (mm)	Power (Kw)	Impeller speed (r/min)	Capacity (t/h)	Outer dimension: L×W×H (mm)	Weight (T)
PCL-600	26	2×30	2000/2600	8-50	3300×1500×2050	5.4
PCL-750	35	2×45	1500/2500	25-55	3300×1800×2440	7.3
PCL-900	30	2×(55-75)	1300/1700	55-120	3600×2140×2620	12.1
PCL-900B	40	2×(75-110)	1000/1450	60-150	3600×2140×2620	13.6
PCL-1050	40	2×(90-110)	1000/1700	100-160	4480×2450×3906	16.9
PCL-1250	40	2×132	950/1200	100-200	4520×2640×3100	22
PCL-1350	60	2×220	800/1200	160-360	5300×2900×3200	26

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

**Contact Us:**

Address: South Jinqiao Area, Pudong New Area, Shanghai, China.

Tel: 86-21-51860270

Email: [sbm@shibang-group.com](mailto:sbm@shibang-group.com)

Web: <http://www.shibang-group.com>