

PCL vertical shaft impact crusher (sand making machine)

PCL rock crusher machine (sand making machine) brief introduction:

SBM vertical shaft impact crusher, also called sand making machine (sales code: PCL) is a high efficient rock crushing machine, which is designed depending on several years hard work and study of mechanical mining equipment. The crusher machine is of high-power and low-consumption, the final products of the SBM sand making machine have a much better cubical particle shape when compared to compression machines such as cone crusher. At present, the Vertical shaft impact crusher is the most advanced and practical equipment for medium-sized and fine crushing and shaping.

PCL rock crusher machine (sand making machine) is suitable for:

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

PCL rock crusher machine (sand making machine) features and benefits:

- 1) Simple structure and low operating cost;
- 2) High efficiency and low consumption;
- 3) Primary and second crushing capacity, more suitable for crushing mid-hardness and high-hardness materials;
- 4) slightly influenced by the moisture content of material, and the max moisture content is 8%;
- 5) Cubic shape of final products, high density of piling up and low iron pollution;
- 6) More wearable and easy maintenance;
- 7) Low working noise and light dust pollution.

PCL rock crusher machine (sand making machine) structure:

The Whole PCL vertical shaft impact crusher includes feed hopper, classifier, whirl pool cavity, impeller, main bearing assembly base, transmission device and motor etc.

PCL rock crusher machine (sand making machine) working principle:

The materials enter the crusher machine 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 scale board 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.

PCL rock crusher machine (sand making machine) specifications:

Model	Max. feeding (mm)	Power(Kw)	Impeller speed (r/min)	Output (t/h)	Outer dimension :L×W×H (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

PCL rock crusher machine (sand making machine) image:





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