



## PCL VSI CRUSHER

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# PCL VSI Crusher Application

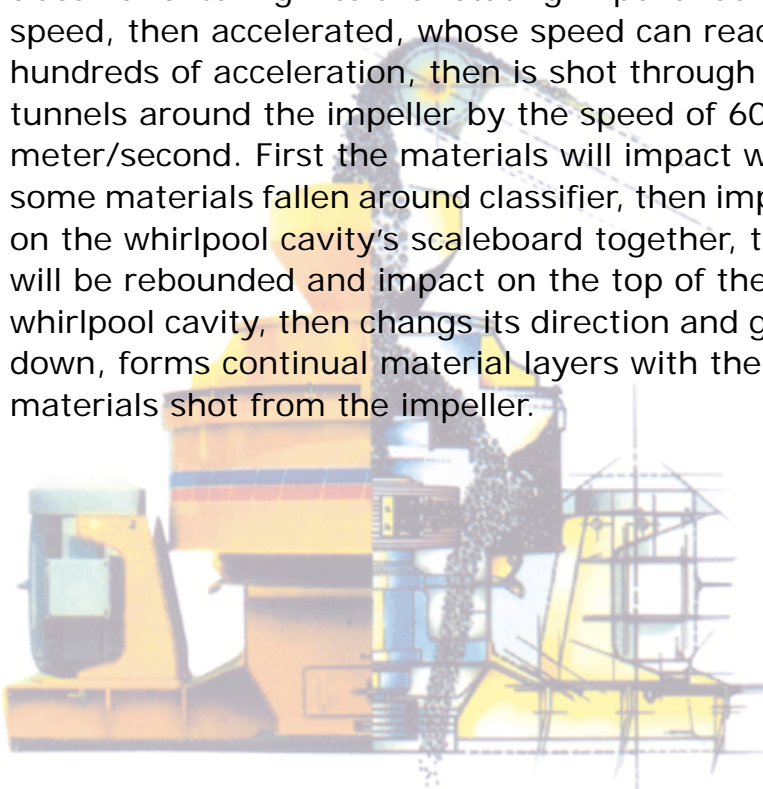
**PCL VSI Crusher is also called vertical shaft impact crusher**, it is applied widely for the powder process of mineral product including metal and non-metal ore, fireproof material, bauxite, diamond dust, glass raw materials, architectural materials, artificial sand and all kinds of metal ore materials, especially which has more advantages than any other machines in processing the more and most hard materials.

## PCL VSI Crusher 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

## PCL VSI Crusher Working principle

The Whole PCL VSI **crusher** including feed hopper, classifier, whirl pool cacity, impeller, main bearing assembly base, transmission device and motor etc. Operating pinciple 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 three circulation. Airflow self-circulation in the whirlpool cavity can eliminate the dust pollution well.

## PCL VSI Crusher Specification

| 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 VSI crusher products.