

YIFAN

VI Series Vertical Shaft Impact Crusher



Leading crushing and screening equipment manufacturer in China

Zhengzhou YiFan Machinery Co.,Ltd(the share-holder is Shande Technology (Beijing) Co., Ltd) has its headquarter in Beijing. It is a famous manufacturer of crushing and screening equipment and provides series stone crusher and crushing equipment for customers.



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ZHENGZHOU YIFAN MACHINERY CO.,LTD

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On September 9, 2006, VI4000 Vertical Shaft Impact Crusher produced by Zhengzhou YIFAN passed the detection of Chinese mining machinery industry supreme authority--National mining machinery quality supervision and inspection center. It proves: all fifteen detection indexes conform to the national standard.

VI Series Vertical Shaft Impact Crusher is high-functioned equipment for making sand and shaping, is researched and produced by our company, absorbed with the advanced technology from Germany, and owned advanced world standards. This equipment has two types: rock-on-rock and rock-on-iron. Sand yield of "rock-on-iron" is higher by 10-20% than that of "rock-on-rock".



Main Purpose

1. Vertical Shaft Impact Crusher is widely used in manufactured sand producing of river pebble, rock(limestone, granite, basalt, diabase, andesite etc.), ore tailings
2. It is used for producing building aggregate, concrete, aggregate for road surface and roadbed, asphalt concrete and cement concrete.
3. It is also used for sand making and shaping in the field of engineering such as water conservancy, hydroelectric power, high-class highway, railway, bridge and municipal works.
4. It is used in fine crushing of mining industry such as building materials, metallurgy, chemical engineer, mine, anti-fire material, cement etc.,
5. High abrasive andThe disintegration of the secondary crushing,Thermal power, metallurgy industry in addition to sulfur ,steel slag crushing and construction waste disposal etc.
6. Sand maker is used for producing glass raw material and quartz sand etc.,



Structural Drawing

1. Simple structure and low operating cost.
2. High crushing efficiency and energy conservation.
3. Function of fine crushing and rough grinding
4. Little Affected by material moisture content, moisture content can reach 8%.
5. It is suitable to crush medium hard, ultrahard.
6. Excellent product of cubic shape, and small fraction of elongated flaky particle shape
7. Small wear from Impeller liner, and easy maintenance.
8. Working Noise is lower than 75 decibel, dust pollution.

Working Principle

Material falls down to impeller cavity. Under great centrifugal force, it hits material that coming downwards. After hitting each other, they force a vortex between impeller and shell, and hit each other several time, finally smaller stone comes out, and goes to vibrating screen. Satisfactory material is transported by conveyor belt. However overlarge material will go back to sand maker to be crushed again. Output sizes can be made according to customer' s requirement.



Technical Date

Model	Max Feed Size (mm)	Speed of Rotor(r/min)	Capacity (t/h)	Motor Power (kw)	Dimensions(LxWxH)(mm)	Weight(kg)
VI-3000	45(70)	1760-2210	30-60	55-90	3080×1757×2126	≤5555
VI-4000	55(70)	1550-1940	50-90	110-150	4100×1930×2166	≤7020
VI-5000	65(80)	1330-1670	80-150	150-220	4300×2215×2427	≤11650
VI-6000	70(100)	1190-1490	120-250	220-320	5300×2728×2773	≤15100
VI-7000	70(100)	1050-1310	180-350	264-400	5300×2728×2863	≤17090
VI-8000	70(100)	1330-1670	250-380	320-440	5500×2565×3178	≤18495
VI-8000II	80(150)	940-1170	320-600	440-630	6000×3022×3425	≤24610
VI-9000	100(150)	880-1100	400-1000	630-740	6200×3300×3890	≤33100

Note:

1. The capacity is total tons per hour passing through crusher at open circuit when crushing mid-hard material and bulk density with $1.6 \times 10^3 \text{kg/m}^3$. Capacities are relative to physical character and type of feeding, feeding size and composition and so on.
2. The number in the brackets is applicable to low abrasive material.
3. Hydraulic decap and automatic lubricating device are optional configuration.



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