

# VSI5X-VSI Crusher





## Overview

VSI5X-VSI crusher is the SBM's newest generation of vertical shaft impact crusher, which adopts Germanic advanced technique and owns a number of patents and independent intellectual property rights. Integrating three crushing types, VSI5X-VSI crusher has become the core equipment in sand making business.

## Application

VSI5X-VSI crusher is widely applied in industries like cement making, refractory making, glass raw materials making, aggregates making, sand making, metallurgical industry, etc. It is suitable for ores and rocks with different hardness. VSI5X-VSI crusher is highly recommended to crush high hardness materials as iron ore, nonferrous metals, corundum, and bauxite, quartz sand, basalt, etc.



# Main Features & Benefits



VS15X series of Vertical shaft Impact Crusher introduces German technology. VS15X with many patents is key equipment in sand making area. VS15X is a kind of totally new high efficient crusher. It has the following features:

1. Rotor with deep chamber increases 30% capacity after perfect design.
2. Side plate direction can be changed to increase material utility ratio, operating ratio can be increased 48%.
3. Worn hammer with combined type is only changed to reduce operating cost 30%. Another pair of vice hammer is added to prevent from damaging main hammer and side plate.
4. The most key wear resistant material uses wear resistant and high temperature resistant material in American important area.
5. Rhombus shape impact plate is used to prevent side plate from being damaged.
6. Bearing is famous international brand imported from Japan, Sweden, etc.
7. Perfect discharge and smooth curve reduce resisting force when material flows, so capacity is increased greatly.
8. Spread dish with double purposes can make two feeding ways change easily.
9. Special seal structure under main shaft guarantee no oil leak without seal.
10. Japanese hydraulic opening cover device is originally imported. The cover is moved easily and inspection of inner part is easy.
11. Motor with high grade of protection is selected. The motor has features of high efficiency, low noise, etc. The motor complies with IEC, insulation grade F, protection grade IP54/55.





## Technical Support

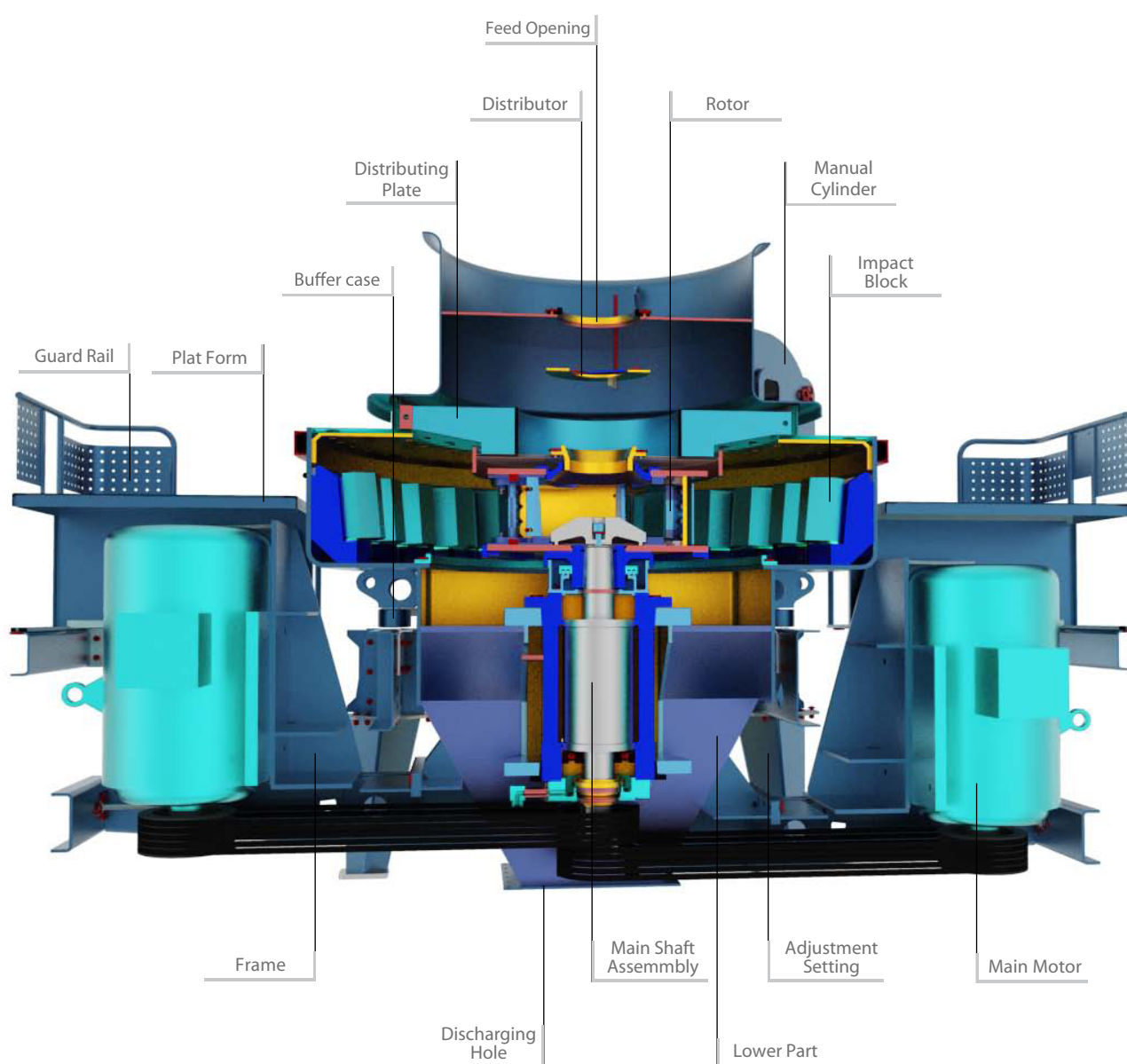
SBM will provide customer with best service and technical support as well as professional training. Which helps customer to use SBM equipment properly.

SBM new developed VSI5X-VSI crusher is the pioneer of crushing industries in technology, material selection, performance and quality. This is new product that has absorbed new technology test method and many years' experience, all user can benefit from it. High performance of our machine brings higher profitability and makes customer more competitive in the market.



# Main Structure

VS15X-VSI Crusher is made up of First Stage Impact Curtain With Anvils, Impact Crutain Adjusting Rods, Second Stage Impact Curtain With Anvils, Rotor, Liner plate, Blow Bar, Wedge Lock Assembly, Discharge Opening, Third Stage Impact Plate, Back-up Bar and so on.

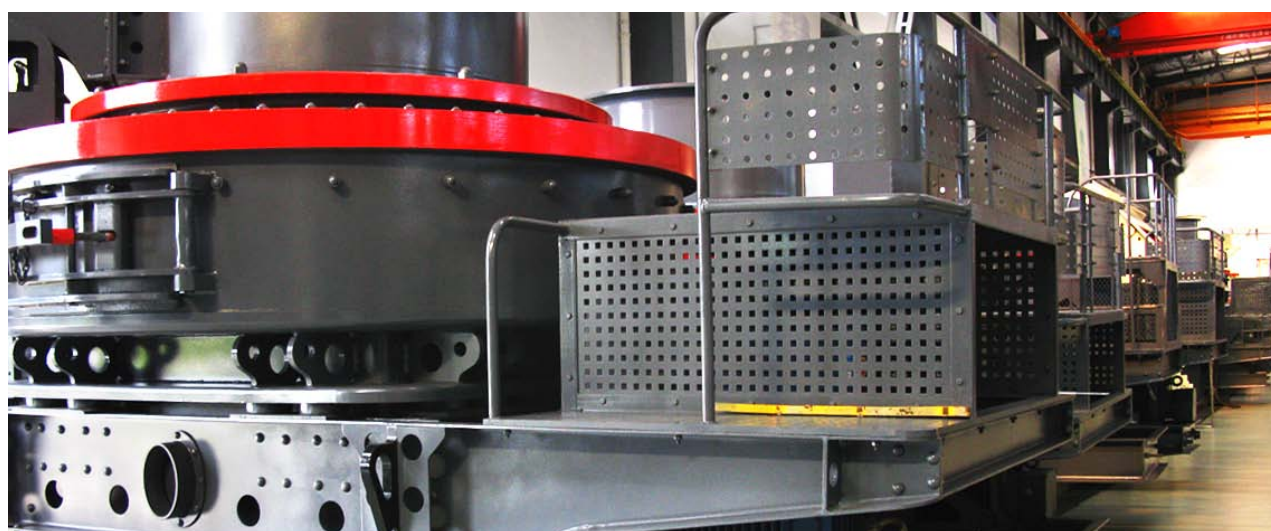




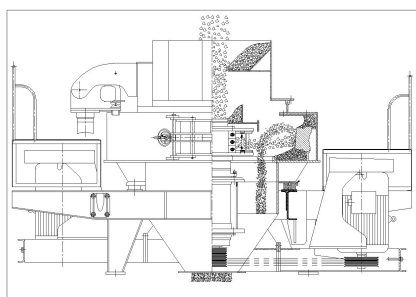
# Technical Data

Model		VSI5X7615	VSI5X8522	VSI5X9532	VSI5X1145
Capacity (t/h)	Feed Both at Center and Sides	150~280	240~380	350~540	500~640
	Feed at Center	70~140	120~200	180~280	250~360
Max Feed Size (mm)	Soft Material	<35	<40	<45	<50
	Hard Material	<30	<35	<40	<45
Rotation Speed (r/min)		1700~1900	1500~1700	1300~1510	1100~1310
Double Motor Power (kw)		110~150	180~220	260~320	400~440
Overall Dimension LxWxH (mm)		4100x2330x2300	4140x2500x2700	4560x2600x2900	5100x2790x3320
Weight (t)		8.6	11.8	17.5	27.5
Power Supply		380v, 50hz			
PE-1000x1200	Double Motor Power	2X0.31kw			
	Safety Assurance	Double oil pumps assure enough oil supply, automatic switch off with no oil stream or hydraulic strength, lower the temprature with cool waterin summer, raise the tamprature with motor in winter.			
	Power of Oil Tank Heater	2kw			
	Overall Dimension lxxh (mm)	820X520X1270			

Note: This specification is just reference, any changes are subject to the VSI5X-VSI Crusher products.

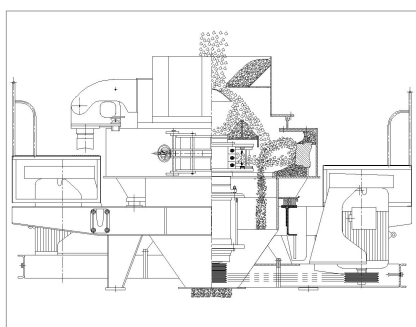


# Working Principle



## Feed at center

Materials fall into the hopper and then through the feeding opening in the center enter the high speed rotor which will throw out the materials with high speed. Materials firstly strike those materials that are free falling down. Then, materials strike the materials-liner in the vortex or the impact liner and are rebounded to the top of crushing cavity and then fall down. After that, the falling materials with materials shot from the impeller form a continuous materials curtain. Ultimately, crushed materials will be charged from the discharging opening.



## Feed both in the center and from sides

The materials fall into the hopper and circle hole and then will be divided into two parts by the distributing plate. One part of materials cross the distributing plate and enter the high speed impeller and then is accelerated and thrown out. The other part falls down from the sides of distributor. Materials firstly strike the free falling down materials. Then, materials strike the materials-liner in the vortex or the impact liner and are rebounded to the top of crushing cavity and then fall down. The falling materials with materials shot from the impeller form a continuous curtain of materials. At last, crushed materials will be discharged from the discharging opening.



# Service

Since the establishment, Shanghai Shibang Machinery Co., Ltd has regarded "All is for clients" as its service goal and has provided high-quality, high-taste, high-efficient and all-around-way service for its clients.



## 1. Pre-sale Services

Act as a good adviser and assistant of clients; enable them to get rich and generous returns on their investments.

- ◆ Select equipment model
- ◆ Design and manufacture products according to clients' special requirement
- ◆ Train technical personnel for clients

## 2. Services During The Sale

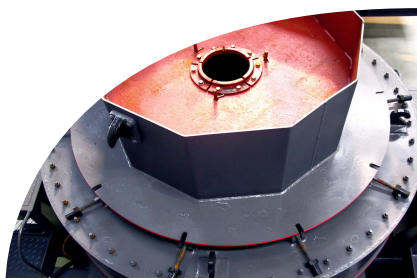
Respect clients; devote ourselves to improving the total value of clients.

- ◆ Pre-check and accept products ahead of delivery
- ◆ Help clients to draft solving plans

## 3. After-sale Services

Provide considerate services to minimize clients' worries.

- ◆ Assist clients to prepare for the first construction scheme
- ◆ Install and debug the equipment
- ◆ Train the first-line operators on site
- ◆ Examine the equipment regularly
- ◆ Provide maintenance for big items
- ◆ Provide technical exchanging
- ◆ Provide perfect service
- ◆ Distribute the guarantee fittings door-to-door
- ◆ Take initiative to eliminate the troubles rapidly at site







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