

## **VSI5X series VSI rock crusher:**

### **VSI5X series VSI rock crusher (sand making machine) brief introduction:**

SBM VSI5X series VSI rock crusher (sales code: VSI5X) is a new generation high effective product which introduces German technology, and owns many independent patents property. The VSI rock crusher integrates three crushing methods into one. All of these made it the core equipment in sand making industries.

### **VSI5X series VSI rock crusher (sand making machine) is suitable for:**

VSI5X series VSI rock crusher is widely used in metal and nonmetal mine, cement, concrete, fireproof material, abrasive filler, glass raw materials, frit, construction aggregate, sand, metallurgy and so on. It is also applicable to crush various stones with different hardness in medium and fine crushing area, such as iron ore, non ferrous metal, emery, bauxite, quartz sand, pearlite, basalt, etc.

### **VSI5X series VSI rock crusher (sand making machine) features and benefits:**

- 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, America, 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.

### **VSI5X series VSI rock crusher 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 chamber 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 the 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.

### VSI5X series VSI rock crusher specification:

Model		VSI5X7615	VSI5X8522	VSI5X9532	VSI5X1145
Throughput capacity(t/h)	Feed both at center and sides	150~280	240~380	350~540	500~640
	Feed	70~140	120~200	180~280	250~360
Max feed size (mm)	soft materials	<35	<40	<45	<50
	Hard materials	<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 L*W*H (mm)		3700×2200 ×2300	4140×2300 ×2700	4560×2500 ×2900	5000×2700 ×3400
weight(t)		8.6	11.8	17.5	27.5
Power supply		380v, 50Hz			
Light-oil lubrication station	Power of double lubropump motor	2X0.31kW			
	safety protection	Double complementary lubropumps supply oil. Auto-stop without oil flow. Water-cool system. Motor-heating for winter.			
	Oil-tank heating power	2kW			
	Overall dimension L*W*H (mm)	820X520X1270			

**VSI5X series VSI rock crusher image:**



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