

Vertical shaft impact crusher (sand making machine):

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

SBM VSI rock crusher machine, also called sand making machine (sales code: SBM-VSI or SBM B series) is designed by reputed German expert of SBM. This VSI rock crusher is the most advanced impact crusher in modern world, and it introduces high quality roller bearing like Sweden SKF or American TIMKEN, which ensure the smooth running of main unit. SBM VSI rock crusher integrate three crushing types and can be operated 720 hours continuously. Nowadays, VSI rock crusher has replaced hammer crusher, roller crusher, roller ball mill etc. and become the mainstream equipment in sand making business.

Note: Vertical shaft impact crusher is called VSI rock crusher for short.

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

VSI rock crusher machine is widely applied to all kinds of raw materials, such as ores, concrete, cement, fire-proof material, bauxite chamotte, quartz rock, basalt, perlite, glass, etc. Especially for some very hard materials, SBM VSI rock crusher possesses more advantage than other crusher machine.

VSI rock crusher machine (sand making machine) technical characteristics:

SBM VSI rock crusher integrates three kinds of crushing patterns: material on material, material on iron and falling at sides. Customers can adjust the machines according to their own demand. SBM VSI rock crusher realizes multiple functions in one machine, which is a big breakthrough in sand making field.

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

- 1) Advanced double pump oil lubrication system, auto-shutdown if no oil, water-cooled cooling system, Motor start up by preheating in winter, all is done to extend the maintenance period.
- 2) High quality roller bearing from SKF and TIMKEN makes main shaft of the VSI rock crusher work stable, and extended service life too.
- 3) Hydraulic lift system can move away cover of the VSI rock crusher easily, which saves manpower, material, financial resources during maintenance.
- 4) The brand new automatic protection devices provide the crusher machine with vibrating, oil filtering and warning system. There will be alarm when vibration exceeds the threshold value. The device will stop the crusher machine in order to protect it.
- 5) The special dustproof seal system of the VSI rock crusher, avoid dust entering bearing lubrication part, so as to ensure the bearings and other transmission system are not abraded.
- 6) Unique feeding method change between central feeding and central feeding with cascade feeding make "rock on rock" and "rock on iron" possible.
- 7) Particular material throw head and reasonable materials selection prolong the service time by 40%.

VSI rock crusher machine (sand making machine) 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.

VSI rock crusher machine (sand making machine) specification:

Model		B-VSI7611	B-VSI8518	B-VSI9526	B-VSI1140
Capacity(t/h)	Feed both at center and at sides	120-180	200-260	300-380	450-520
	Feed at center	60-90	100-130	150-190	225-260
Max feed size(mm)	Sofo material	<35	<40	<45	<50
	Hard material	<30	<35	<40	<45
Rotation speed(r/min)		1700-1890	1520-1690	1360-1510	1180-1310
Power(KW)		110-150	180-220	264-320	400-440
Overall dimension L*W*H (mm)		3700×2150×2100	4140×2280×2425	4560×2447×2778	5000×2700×3300
Weight(t)		7.8	10.3	16	25.6
Power supply		380V,50HZ	380V,50HZ	380V,50HZ	380V,50HZ
Vibrating sensor		detect range: 0.1-20mm/s continous and adjustable			
Lubrication and hydraulic station	Power	2×0.31KW			
	Safety assuance	Double oil pumps assure enough oil supply; automatic switch off with no oil stream or hydraulic strength; lower the temperature with cool water in summer; raise the temperature with motor in winter.			
	Overall demension L*W*H(mm)		820×520×1270	820×520×1270	

	Power of oil tank heater	2KW
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VSI rock crusher machine (sand making machine) image:



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