

# SC Vertical Shaft Impact Sand Making Machine



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Model	Max. feeding size(mm)	Outer diameter of rotor(mm)	Peripheral speed of rotor (m/s)	Motor power (KW)	Productivity (T/H)
1200SC	25x35x45	1235	60	250	131
				280	157
				315	188
			70	250	76
				280	95
				315	119
1000SC	25x35x45	1040	60	185	102
				200	111
				220	128
			70	200	67
				220	80
900SC	20x30x35	890	60	110	69
				125	82
				132	88
			70	110	45
				125	55

				132	60
700SC	20x30x35	740	60	55	27
				75	44
				90	57
			70	75	28
				90	38

### 1.High-tech level of modern sand making machine

Along with the increase in domestic demand, the country puts more efforts and investments in infrastructure projects of highway and railway, which results in urgent need of large amount of sand stone. But natural sand resources can't meet the demand of sustainable development any more. Under this background, we cooperated with KOBE Steel Group, industrial magnet of Japanese crusher, and China National Heavy Machinery Corporation, adopting world-class technology and equipment to develop and manufacture this vertical shaft sand making machine with high-tech level.

### 2.Structure of vertical shaft sand making machine

SC series sand making machine is composed of machine body, feeding pipe, impact board, vertical shaft with rotor, motor, feeding hopper, crushing chamber, pedestal, etc.

### 3.Performance advantages

Impact plate installed in machine body is made by special high-chromium cast steel, with high abrasion proof and for not being fastened with bolts it is convenient to be replaced. It uses closed rotor and feed through rotor.

Air cycle device is installed on both sides of materials feeding opening, which make the wind produced by rotation of rotor cycles in this device, thus to reduce the dust which is discharged outside.

Rotor is equipped with abrasion proof gaskets which prolong its useful life and reduce amount of easily damaged parts, to decrease operational cost.

Because of being adjusted balance, the rotor with high speed realizes low noise and vibration.

Impact board can be reversed to use and its installing position can be adjusted up or down to make best use of its function. Its lubrication is adopted with grease.

### 4.Crushing principle

Ready-to-crush materials are put from the top feeding opening, into high speed central part of rotor. The falling materials are threw out at high speed under the

strong centrifugal force of rotor and crushed when they strike the impact board of main machine. When install impact board, the collision between materials and impact board should be a right angle to exert its excellent crushing performance. Artificial sand after crushing is discharged from the lower part of machine.

### **5.Product advantages**

Firstly, it has excellent crushing performance;

Secondly, it decreases operational cost greatly: 1.less easily damaged parts 2.easily damaged parts are made by special high-chromium cast steel or extra hard alloy, so their useful time are prolonged extensively than the parts made by other materials.3. Impact board can be reversed to use and its installing position also can be adjusted, so it has high rate of final products.4.more convenient replacement of easily damaged parts.

Thirdly, it's new environmental machinery products, can reduce damage of public nuisance.1.low noise and vibration, reduce noise pollution 2.less dust discharged outside reduce environmental pollution.

It is widely used in crushing basalt, cobblestone, andesite, granite, etc, and it produces artificial sand by dry processing way. SX vertical shaft sand making machine is to make use of the impetus produced by high speed centrifugal force to let materials strike with each other or materials strike impact board and crush materials finally, so it almost can crush all kinds of materials, especially hard materials, is suitable in mining and building industry.