

Sand Maker

Operating Instruction

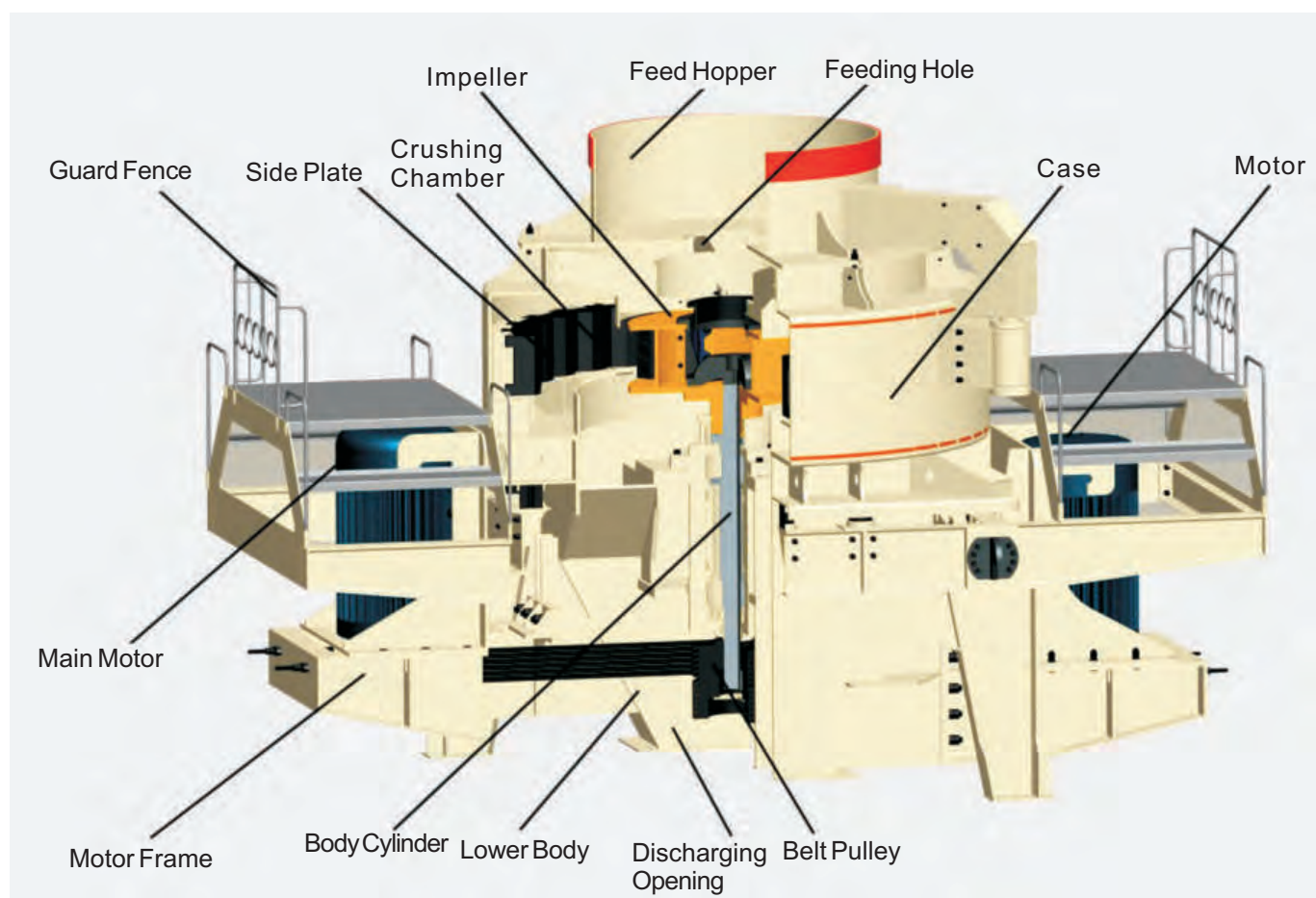


Henan Shibo Heavy Machinery Co., Ltd.

Overview

Vertical shaft impact crusher is also called sand maker which is highly efficient stone crushing equipment with domestic and international leading level researched and manufactured by Hongxing Machinery on the basis of introducing the famous "stone impacting stone" crusher principle and technology of American Barmac Company and combining with the actual condition of the domestic

sand making industry. It is suitable for the medium and fine crushing of various hard and crisp materials such as various rocks, abrasive materials, refractory, cement clinker, quartz stone, iron ore and concrete aggregate, and especially suitable for making building sand and road paving sand and stone.



✓ Applied material:



Calcite



Steel Slag



Concrete Aggregate



Quartz

Features

- 1 Strong ability of filtering materials that needn't crushing; little influence of material moisture, and the water content can reach 8%.
- 2 Be able to crush medium hard and extra-hard materials (such as corundum and sintering bauxite etc).
- 3 Products are in cubic shape and cause little iron pollution.
- 4 Cheaper than cone crusher, big capacity, better particle size, uniform appearance.

Characteristics

Processing ability: 0.26–30 m³

Rotate speed: 200–530 r/min

Diameter: 240–850 mm

Power: 1.1–22 kw

Applied material: pebble, calcite, granite, quartz, concrete, dolomite, bluestone, iron ore, limestone, construction waste, etc

Working principle

After entering the VSI sand maker, materials are divided into two parts by the distributor. Some enter the high speed spinning impeller through the middle part of the distributor, get speeded up with the accelerated speed of hundred times of gravitational acceleration and thrown out of the three runners evenly spreading in the impeller at the speed of 60-70m/s. Then some materials falling around the distributor are crushed and impact into the vortex motion cavity, get rebounded by the material lining, get impact inclined up to the top of the vortex motion cavity, then change the direction of motion and finally form the continuous material curtain with materials launched from the impeller runner. Therefore, materials will suffer two or more times of impact, grinding and crushing in the vortex motion crushing cavity. The crushed materials are discharged from the discharge gate in the bottom.





Sand Production Line

The sand production line is a dedicated production line to produce sand and stones for building purpose. It can process the rocks, gravels and cobbles into different particle sizes suitable for building materials.

Technical data

Model	Max.feeding size (mm)	Power (kw)	Rotation speed of impeller (r/min)	Capacity (t/h)	Dimensions (L×W×H) (mm)	Total weight (kg)
FTM-06	35	37-55	2000-3000	12-30	2500×1620×2600	5600
FTM-07	45	55-75	1500-2500	25-55	2700×1760×2800	7600
FTM-09	50	110-150	1200-2000	55-100	3900×2000×3070	12600
FTM-10	60	150-180	1000-1700	100-160	4600×2350×3450	17300
FTM-12	60	264-320	850-1450	160-300	4500×2400×3700	22500
FTM-13	60	320-400	800-1193	200-360	5200×2700×3800	27600



Advantages

1. Simple structure and low construction cost.
2. High crushing efficiency and energy saving.
3. Fine crushing and rough grinding functions.



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