VSI Sand Making Machine

CRUSHING | GRINDING | QUARRY PLANT | SCREENING | WASHERS | FEEDING | CONVEYOR

Shanghai Joyal Mining Machinery Co., Ltd.
The JOYAL VSI Crusher is improved on the basis of Germany high technology, which is highly-efficient and superior in performance. The JOYAL VSI Crusher (sand making machine) is widely used to produce sand and stone for highway, high-speed railway, city project, hydropower dam constructions, and concrete mixing plant, and it's also widely used in sand making and stone reshaping industry.
1. The oil needed is supplied by two oil pumps, and the machine stops automatically if there is no oil; the motor can be heated automatically in winter to ensure the normal working of the machine.

2. Hydraulic lifting system to check and replace the spare parts, thus it’s very easy and simple to maintain.

3. The bearing is of SKF and TIMKEN brand to ensure the normal working of the machine.

4. Unique vibrating alarm device: if the machine works abnormally, the alarm will sound to stop the machine, thus protecting the whole machine.

5. Special feeding structure; rock on rock, and rock on iron to make the stones crushed and reshaped.

6. Unique dustproof seal system to prevent the dust getting into the spare parts.

7. Unique design of material bumping angle reduces the friction between raw material and spare parts, extending the working life of spare parts and cut the cost.
Working Principle

– Center Feeding:

Raw materials fall down into the feeding hopper, then enters the impellor through central entrance inlet, thus the material being accelerated by the high-speed impellor and being thrown out at the speed of 60-75m/s. It is crushed when hitting the impact plate, and the end products comes out from the discharging outlet.

– Ring Feeding:

Raw materials fall down into the feeding hopper, and the materials are divided into two parts by a special plate. Some materials enter the impellor through the center of the plate and the other part of materials falls down from outside of the plate. The materials thrown out earlier crush the materials down from outside, thus the materials crushed and re-crushed.
<table>
<thead>
<tr>
<th>Model</th>
<th>VSI-7611</th>
<th>VSI-8518</th>
<th>VSI-9526</th>
<th>VSI-1140</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (t/h)</td>
<td>Center and Sides Feeding</td>
<td>120-180</td>
<td>200-260</td>
<td>300-380</td>
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<tr>
<td></td>
<td>Center Feeding</td>
<td>60-90</td>
<td>100-130</td>
<td>150-190</td>
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<tr>
<td>Max. Feeding Size (mm)</td>
<td>Soft Material</td>
<td>35</td>
<td>40</td>
<td>45</td>
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<tr>
<td></td>
<td>Hard Material</td>
<td>30</td>
<td>35</td>
<td>40</td>
</tr>
<tr>
<td>Rotation Speed (rpm)</td>
<td>1700-1890</td>
<td>1520-1690</td>
<td>1360-1510</td>
<td>1180-1310</td>
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<tr>
<td>Double Motor Power (KW)</td>
<td>110</td>
<td>180</td>
<td>264</td>
<td>400</td>
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<tr>
<td>Overall Dimension L×W×H (mm)</td>
<td>3700×2150×2100</td>
<td>4140×2280×2425</td>
<td>4560×2447×2778</td>
<td>5000×2700×3300</td>
</tr>
<tr>
<td>Weight (t)</td>
<td>7.8</td>
<td>10.3</td>
<td>16</td>
<td>25.6</td>
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<tr>
<td>Vibrating Sensor</td>
<td>Inspection Range: 0.1-20mm/s continual adjustment</td>
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<tr>
<td>Hydraulic Oil Pump</td>
<td>Motor Power of Double Oil Pump (KW)</td>
<td>2×0.31KW</td>
<td></td>
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</tr>
<tr>
<td>Overall Dimension L×W×H (mm)</td>
<td>820×520×1270</td>
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<tr>
<td>Power of Oil Tank Heater</td>
<td>2KW</td>
<td></td>
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<td>Vibrating Sensor</td>
<td>Inspection Range: 0.1-20mm/s continual adjustment</td>
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</tbody>
</table>
Structure Drawing of VSI Sand Making Machine

1. Pedal
2. Cover Rotator
3. Support Rrame
4. Upper Body
5. Access Door
6. Lower Body
7. Outlet
8. Main Shaft Assembly
9. Oil Return Pipe
10. Oil Inlet Pipe
11. Diluted Oil Station
12. Transmission Gear
13. Vibration Damper
14. Guard Plate
15. Head Oil Tank
16. Sling Wheel
17. Separating Plate
18. Feeding Hopper
19. Dispensing Plate
20. Inlet
21. Guard Plate

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