

SHUKY

6S 系列制砂机

6S Series Sand Making Machine



01 产品简介

Brief Introduction



6S系列立轴冲击式破碎机是我公司在原有高性能VSI系列的基础上，结合设备在不同工况下实际运行情况以及操作者的反馈建议，开发出的单位成本更低、破碎效率更高、操作控制智能化的先进破碎设备。

该机通过改进进料方式、优化破碎腔型、采用新的转子设计、加装起吊装置等，显著降低了物料流动阻力、提高物料通过能力、降低易损件磨损率、提高能量利用率、延长维护周期、缩短维修时耗。现已成为中国最先进，最具代表性的高性能破碎制砂设备。

6S series vertical shaft impact crusher is based on the original high-performance VSI series and combined with actual running condition under different working conditions as well as operator's feedback. It is advanced with low cost, high crushing ratio and intelligent operation.

We improve the performance of 6S series vertical shaft impact crusher by perfecting the feeding mode, optimizing the crushing chamber, adapting new-design rotor, equipping with lifting device etc. Thanks to above new advantages, it reduces flow resistance of stones, increases throughput capacity, reduces wear rate of spare parts, increases utilization ratio, extends maintenance cycle and decreases repair time. 6S series vertical shaft impact crusher has become the most advanced and most representative high-performance sand making equipment in China.

02 性能特点 Features

1. 优化设计的散料盘和液压装置实现了瀑落式进料与中心进料的完美结合，中心进料量大小的调节更方便，使破碎腔内的物料充分破碎。

1. Feed at center and sides is realized by the optimized-design stuff distributor and hydraulic device. It becomes convenient to adjust the stuff amount of center feeding and crushes sufficiently.

2. 最优的发射口及内部更流畅的曲线形设计，降低物料的流动阻力，大幅度的提高物料通过能力，破碎效率更高。

2. Crushing efficiency increases. Optimal emission port and smooth curve design decrease the stone's flow resistance and increase the throughput capacity greatly.

3. 周护板采用两块上下并装，磨损后可对调使用，延长耐磨件使用寿命，降低运营成本。

3. Protecting plates adopt butt joint and exchange up and down after abrasion. It extends the lifespan of wearing parts, reducing the operation cost.

4. 优化电机架结构，电机架和观察维护平台一体化设计，结构紧凑、运行稳定可靠。

4. Optimize the motor frame. Motor frame and operation platform adopt integration design, making it compact structure and reliable operation.

5. 电机座采用液压调整，先进的控制元件，保证主轴两侧受力一致。

5. Motor frame adopts hydraulic adjustment. Advanced control element ensures balanced load of main shaft double sides.

6. 上盖举臂和起吊装置均采用液压控制，易损件更换更加简便快捷。

6. Hydraulic lifting boom and crane make it easier to change the spare parts.

7. 采用无油封防漏结构设计、多管路稀油润滑，实现上下轴承同时润滑，显著提高轴承使用周期。

7. Leakage-proof design without oil seal and multi-pipes lubrication design lubricate the upper and lower bearings in the meantime, which increases bearing lifespan.

8. 国际先进的稀油润滑站，双油泵互补保证供油，自动检测油量，无油流，无油压，自动停机；油液冷却及加热装置确保轴承润滑始终处于最佳状态。

8. International advanced oil lubrication system. Double oil pumps ensure the supply of oil; stop the machine without oil flow or oil pressure; oil cooling and heating device ensures the bearing lubrication in a best state.

9. 自带振动检测报警装置，如果设备发生不良运转，可发出警告，设备快速停止工作，达到保护机器目的。

9. Automatic detecting device makes the machine safe and reliable by warning when the machine is abnormal.

10. 轴承均采用国际一线品牌

10. Bearing is international top brand.



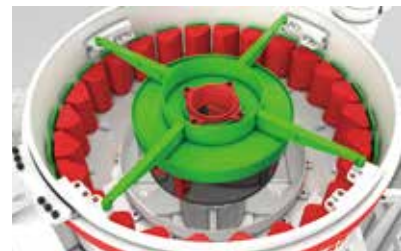
瀑落进料与中心进料



液压举臂



起吊装置



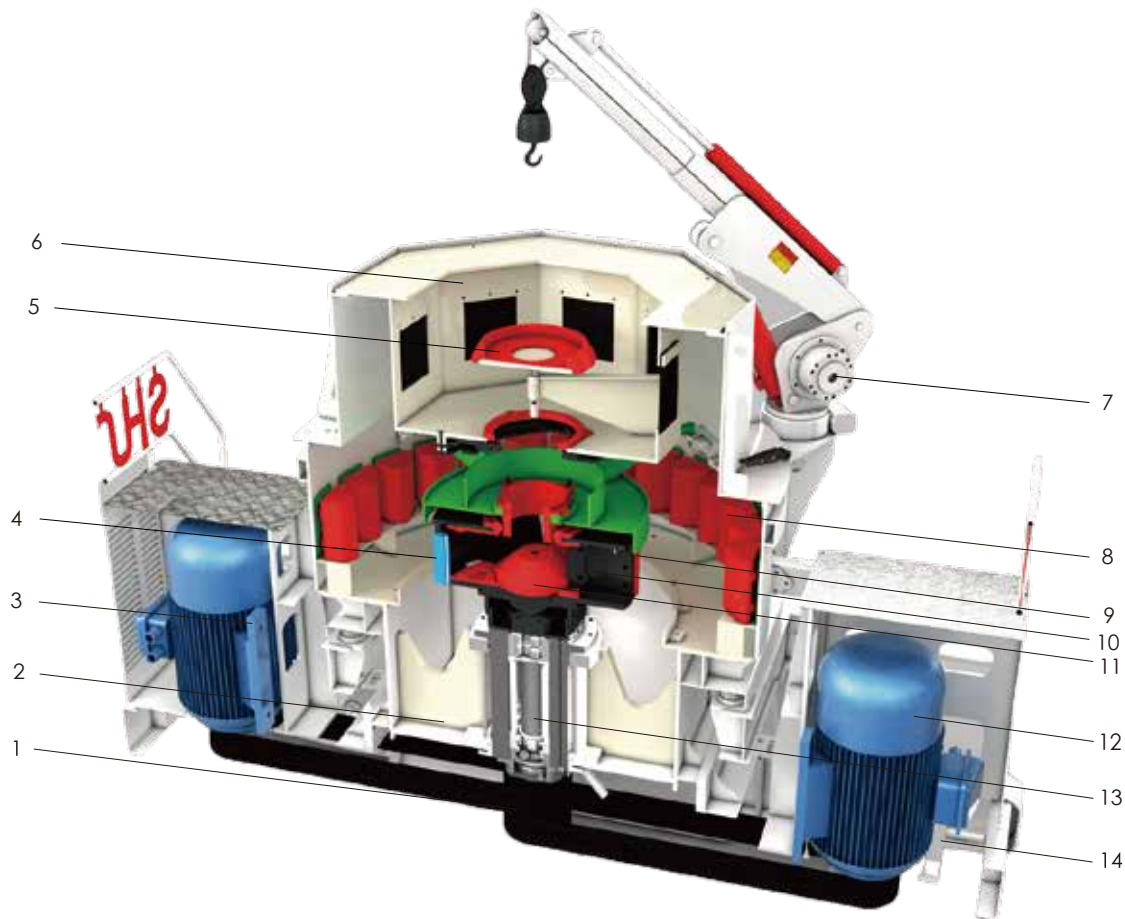
分料器



叶轮

03 产品结构

Internal Structure



- 1、联组窄V带
Compound V-Belt
- 2、下机体部
Lower Bracket
- 3、电机 Motor
- 4、抛料头 Hammer
- 5、分料盘
Distributing Plate
- 6、上盖部
Upper Cover
- 7、吊车 Crane

- 8、反击块
Side Protecting Plate
- 9、冲击块
Hitting Block
- 10、叶轮 Impellor
- 11、分料锥
Stuff distributor
- 12、电机 Motor
- 13、主轴总成 Main Shaft
- 14、电机架
Motor Frame

04 工作原理

Working Principle



物料连续不断的输送至制砂机上方分料器以后，在分料器内形成自然堆积（满腔喂料），然后分别由分料器中心及周围自然下落至制砂机破碎腔内，从分料器中心进入的物料在进入叶轮以后，经过高速旋转的叶轮迅速加速，然后以数十倍重力加速度的从叶轮内抛射出来。被高速抛出的物料首先同由分料器四周自由落下的物料完成第一次冲击破碎（石打石），然后又一起冲击到涡流腔内周护板上完成第二次破碎（石打铁）。不断冲击到周护板上的物料又不断的被反弹回来，再次与从叶轮中心高速抛射出来的物料撞击，形成连续不间断破碎。这样，一块物料在涡流腔内经过多次撞击破碎以后，成品由制砂机下方排料口排除。

Working principle: materials are constantly conveyed to the stuff distributing plate of sand making machine and piled up. When crammed the chamber, the materials naturally fall into the hopper. After getting into the rotating impeller, they are accelerated by the high speed rotating impeller, and then shot through the tunnels around the impeller which can be 10 times of gravity acceleration. These materials in high speed crash with those in free falling (stone on stone), and then impact the plate that fixed on the whirlpool cavity (stone on iron). They will be rebounded and repeat the process again, thus the materials are constantly crushed. After impacted for several times in the whirlpool cavity, the crushed materials will be excluded through the bottom discharging hole.

05 技术参数

Technical Parameters



| | | | |
|--|--------------------------------------|--|----------------|
| 型号 Model | | 6S-9832 | 6S-1250 |
| 处理能力 Capacity (t/h) | 瀑落与中心进料 Center and ring feeding | 450-520 | 650-800 |
| | 全中心进料 Center feeding | 225-260 | 325-400 |
| 最大进料边长 Max. feeding length (mm) | 软料 Soft material | < 50 | < 50 |
| | 硬料 Hard material | < 45 | < 45 |
| 转速 Rotation speed (r/min) | | 1360-1510 | 1100-1310 |
| 双电机功率Power of two motors (Kw) | | 160×2 | 250×2 |
| 最大外形尺寸Dimension (mm) | | 4750×2547×2850 | 5200×2830×3350 |
| 电源 Power source | | 380V 50Hz | |
| 振动传感器监测范围 Monitoring range of vibration sensor | | 0.1-20mm/s连续可调 continuous and adjustable | |
| 液压润滑站 Hydraulic lubrication station | 电动机功率 Motor power (kw) | 2×0.31 | |
| | 安全保护 Safety | 双油泵互补供油，无油流，无油压自动保护，风冷降温，冬季电机加热启动 Complementary double pumps ensure oil supply; no oil flow; no-oil-hydraulic-automatic-protection; water cooling; heating boot of motor in winter | |
| | 外形尺寸 Dimension (mm) | 820×520×1270 | |
| | 油箱加热器功率 Power of tank heater (kw) | 2 | |



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