

梦想 在路上延伸
Dream, on the way !



VSI6X系列立轴冲击式破碎机

VSI6X Series

Vertical Shaft Impact Crusher

精品制砂整形设备

Fine Reshaping Equipment for Sand Making



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针对砂石市场对规模化、集约化、节能环保以及高品质机制砂的需求增加，世邦工业科技集团在数千台冲击破制砂整形应用技术基础上，进一步对冲击破的结构和功能进行优化设计，推出了新一代高效率低成本的制砂整形设备——VSI6X系列立轴冲击式破碎机

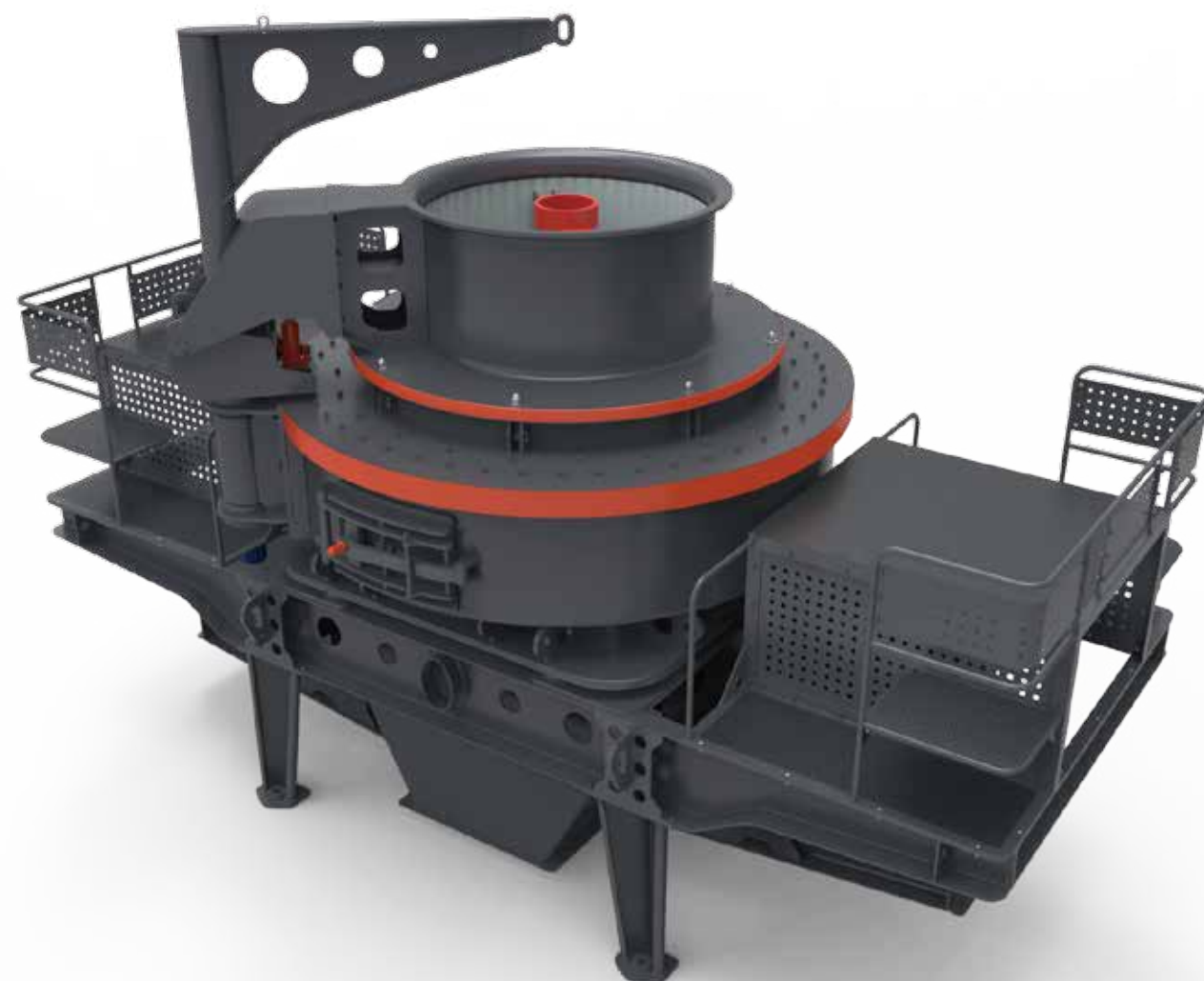
Due to the increasing market demand for the scale, intensification, energy conservation and environment protection and high-quality mechanism sand of the sand plants. On the basis of sand making and reshaping application technology of thousands of vertical shaft impact crushers, SBM further optimizes and designs the structure and function of vertical shaft impact crushers and launches a new generation of sanding making and reshaping equipment with high efficiency and low cost — VSI6X series vertical shaft impact crusher

VSI6X系列立轴冲击式破碎机采用了全新的四口叶轮结构、专利轴承筒设计、高效低成本破碎腔型和大通过量机架等最新的技术成果，同时对设备整体的功能进行优化设计，使得设备的破碎效率、使用成本和操作维护性能等各项指标都达到国内外最先进水平。

VSI6X series vertical shaft impact crusher adopts a new four-port impeller structure, patent bearing cylinder design, crushing cavity mode with high efficiency and low cost, large throughput rack and other latest technology achievement and also the overall function of the equipment is carried out optimal design, which makes the crushing efficiency, usage cost, operation and maintenance performance and other indexes reach the advanced level at domestic and overseas.

VSI6X系列立轴冲击式破碎机不仅可以用于坚硬岩石的制砂和整形作业、矿石的细碎作业，还可以用于建筑垃圾、煤矸石、尾矿等固体废弃物处理等，是目前市场上首选的节能环保型高效率制砂和整形设备。

VSI6X series vertical shaft impact crusher can be used not only in sand making and reshaping of hard rocks and crushing of ore, but also in disposal of construction waste, coal gangue, tailing and other solid waste. Now it is the preferred energy saving and environment protective, sand making and reshaping equipment with high efficiency in the market investment.



----- “石打石” 与 “石打铁” 破碎 -----

“Rock on Rock” and “Rock on Iron” Crushing

为了满足不同用户的破碎需求，VSI6X系列立轴冲击式破碎机对破碎腔型进行结构优化，配置“石打石”和“石打铁”破碎形式，且“石打石”料衬和“石打铁”反击块结构都根据设备的工作状态进行特殊设计，使设备破碎效率明显提高。

In order to meet the crushing demand of different customers, VSI6X series vertical shaft impact crusher is carried out optimal design to the crushing cavity mode and configured “rock on rock” and “rock on iron” crushing method. The “rock on rock” material liner and “rock on iron” counter block structure is designed specially according to the working condition of the equipment, which greatly promotes the crushing ratio of the equipment.



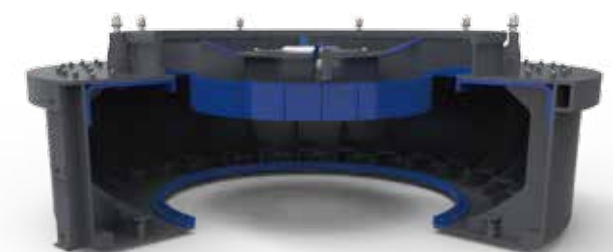
“石打石” 破碎腔 出料品质高 “Rock on rock” crushing cavity, high-quality in materials

“石打石”破碎腔结构优化，增加料层隔板，可形成密实稳定的石料层，提高破碎效率，配合进料调节环，可以调节中心进料与瀑落料的比例。

The optimization of “rock on rock” crushing cavity structure and the adding of material clapboard forms a dense and stable stone layer, improves the crushing efficiency, coordinates with the regulating ring of the feed stock and adjusts the ratio between the central feeding and the side feeding.

采用“石打石”破碎腔，可以获得更高品质的成品，更优的出料级配和更好的立方体粒型；当用于中高硬物料（石英、玄武岩、花岗岩、河卵石等）破碎时，“石打石”破碎腔可以明显降低易损件使用成本。

The adoption of “rock on rock” crushing cavity can help to get higher quality finished products, better material grading and better cubic particles; when it is used in medium and high hard materials’ (quartz, basalt, granite, gravel and so on) crushing, the “rock on rock” crushing cavity can obviously reduce the cost of wearing parts.



“石打铁” 破碎腔 破碎效率高 “Rock on iron” crushing cavity, high efficiency in crushing

当采用“石打铁”破碎腔时，破碎比更大，可以获得更多的成品；该破碎腔型采用全新的结构，优化反击块安装角度，被叶轮抛出的高速物料与其撞击时能量损耗少，破碎效率更高，可以最大限度的获取更多的成品物料。

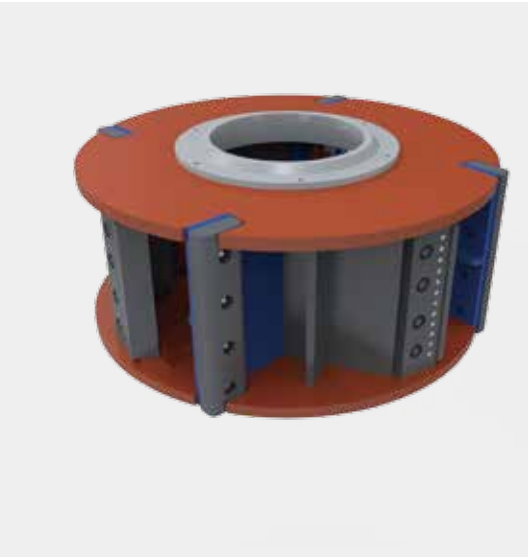
When the “rock on iron” crushing cavity is adopted, the crushing ratio is more larger and more finished products can be obtained; this crushing cavity mode adopts new structure and optimizes the installation angle of the counter block, which has low energy loss when the high-speed materials thrown by the impeller impact the crushing cavity, higher crushing efficiency and can help to get more finished materials.



---关键部件全新结构设计---
New structure design of the key parts

为了保证设备的整体性能，VSI6X系列立轴冲击式破碎机对关键部件例如叶轮、轴承筒、主机体等进行结构优化设计，多项国家专利技术确保该破碎设备在破碎作业时高产、高效、低成本。

In order to ensure the overall performance of the equipment, the structure of key parts on VSI6X series vertical shaft impact crusher is optimized, such as the impeller, the bearing cylinder, and the main body. Several national patent technologies ensures the high yield, high efficiency and low cost of the crushing equipment in crushing operation.



高效四口深腔叶轮
High efficient impeller
with four-port deep cavity

为了提高设备的破碎效率，VSI6X系列立轴冲击式破碎机采用全新的四口深腔叶轮设计，优化物料抛射角和速度，物料通过量大，破碎效率提高，设备破碎性能较三口叶轮同物料的破碎效率提高20%以上。

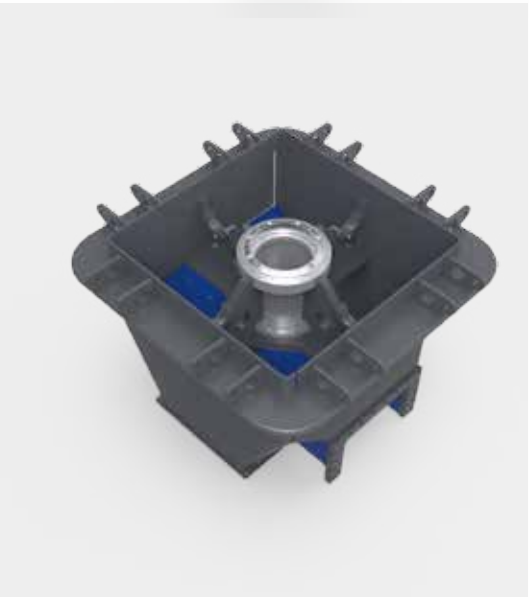
In order to improve the efficiency of crushing equipment, VSI6X series vertical shaft impact crusher adopts the new design of impeller with four-port deep cavity, which optimizes the throw angle and speed of the material and has large throughput of materials and higher crushing efficiency. The crushing performance of this equipment is 20% higher in crushing efficiency than that of the three-port impeller when the material is the same.



国家专利轴承筒设计
The design of the
national patent bearing cylinder

VSI6X系列立轴冲击式破碎机轴承筒为全新的结构设计，采用特殊的防尘和密封结构，并获得多项国家专利，配套进口轴承，进一步确保转动的可靠性。

The bearing cylinder of VSI6X series vertical shaft impact crusher is new in structure design, adopts special dust-proof and sealing structure, obtains several national patents and is equipped with imported bearings, further ensuring the reliability in rotating.



大通过量主机体
Large throughput of the main body

VSI6X系列立轴冲击式破碎机主机体采用大通过量简约设计，物料下料顺畅，能有效防止含水量过大的物料在机体下部堵塞，提高了整机破碎效率。

The main body of VSI6X series vertical shaft impact crusher is simple in design and has large throughput. The materials are easy to go through, which can efficiently prevent the materials with too much water from blocking the underpart of the main body and raise the crushing efficiency of the whole equipment.

更低的使用和维护成本

Lower cost in usage and maintenance

VSI6X系列立轴冲击式破碎机对叶轮等部分结构及工艺优化，易损件的使用寿命大幅度提升，较以往设备在同使用条件下，关键易损件寿命提高30%-200%。

VSI6X series vertical shaft impact crusher is optimized in some structure and craft of the impeller. The service life of some wearing parts is prolonged for 30~200% compared to the former equipment in the same usage conditions.

易损件更耐磨 减少使用成本

More wear-resistant wearing parts, reducing the usage cost

叶轮是设备的核心部件，通过对叶轮部分结构及工艺优化，同时采用高质量耐磨材料，易损件的使用寿命大幅度提升，大大降低了设备的易损件使用成本。当用于超硬物料处理时，推荐用户可以选用“石打石”工作模式，耐磨件更少，使用成本更低。

The impeller is the core part of the equipment. The service life of the wearing parts is greatly improved and the usage cost of the wearing parts is greatly reduced by optimizing some structure and craft of the impeller and using the high-quality wear-resistant materials. When it is used to dispose super hard materials, the “rock on rock” work mode is recommend to the customers, which has less wearing parts and low usage cost.



配置起吊装置 降低维护难度

Configure the lifting device, reduce maintenance difficulty

VSI6X系列立轴冲击式破碎机配置简单的起吊装置，当进行设备维护时，叶轮和轴承筒吊装无需额外增加大型的吊装设备，大大降低了设备的维护保养难度。

VSI6X series vertical shaft impact crusher is configured with simple lifting device. When the equipment is maintained, the lifting of the impeller and the bearing cylinder don't need to be added extra large lifting devices, greatly lowering the maintenance difficulty of the equipment.



更安全可靠的设备运行方式

Safer and more reliable equipment operation

VSI6X系列立轴冲击式破碎机在设计时，充分考虑了设备使用的安全性和可靠性，采用了更平稳可靠的双电机驱动和自动稀油润滑，同时对设备的料斗、维修平台等进行优化设计，确保设备运行安全可靠。

When the VSI6X series vertical shaft impact crusher is designed, the safety and reliability of the equipment is took into consideration. The more stable and reliable dual-motor drive and automatic diluted oil lubrication are adopted and at the same time, the gunk and the maintenance platform is optimized to ensure the safety and reliability of the equipment operation.



更平稳的双电机驱动

More stable dual-motor drive

VSI6X系列立轴冲击式破碎机转速高，采用双电机驱动的形式，传动效率更高，设备主轴径向受力更均匀，设备运转更平稳；同时优化了电机座固定结构，电机固定可靠，安装和调节更方便。

VSI6X series vertical shaft impact crusher has quick rotate speed and adopts the dual-motor drive. The drive efficiency is higher, the spindle radial is uniformly forced and the operation of the equipment is more stable; also, it optimizes the fixed structure of the motor base which is fixed and reliable and more convenient in installation and adjustment.

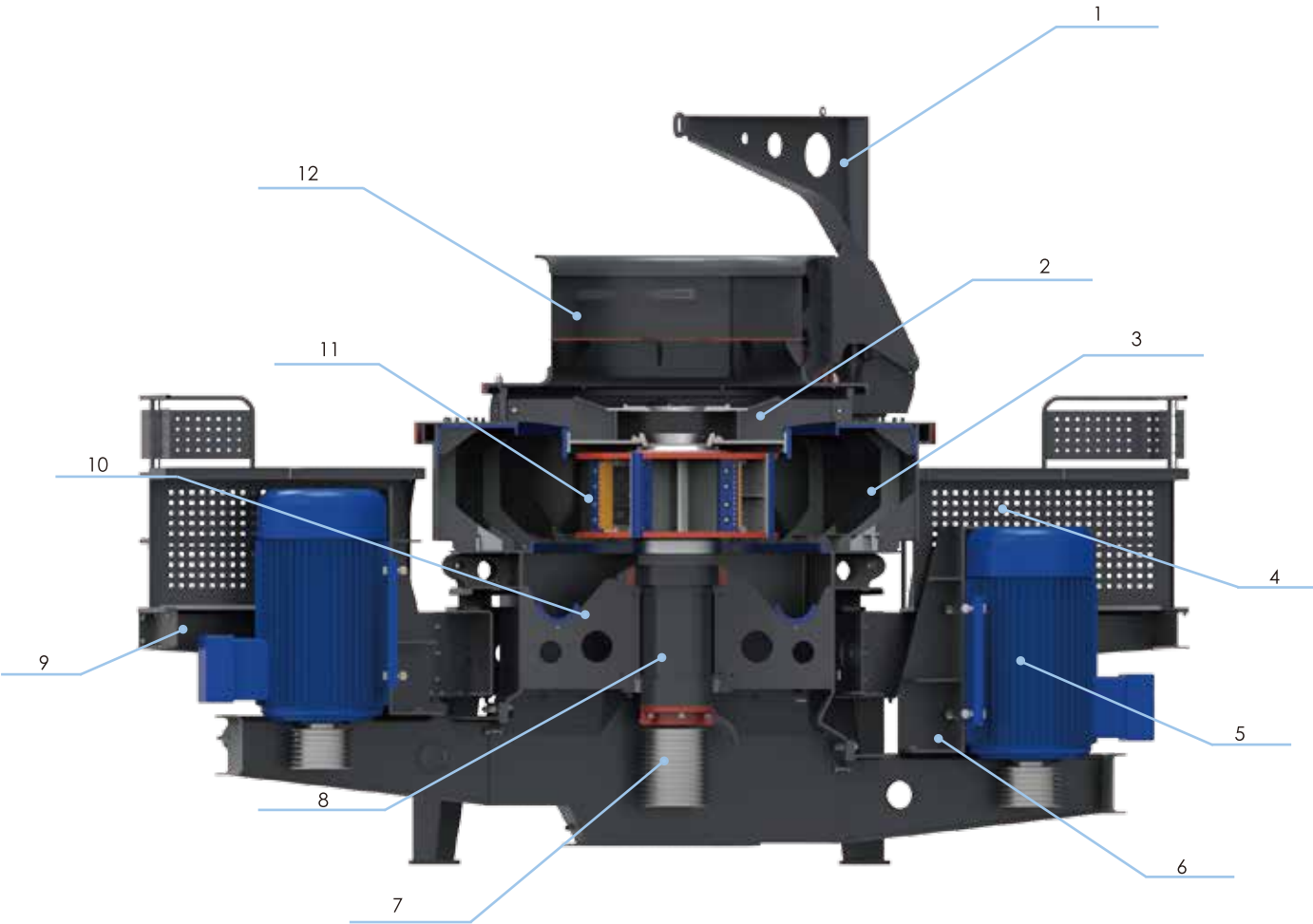
智能控制的全自动稀油润滑

Intelligent controlled fully automatic diluted oil lubrication

设备润滑采用优化稀油润滑并配备风冷系统，控制系统采用PLC智能控制，可以实现全自动润滑控制，缺油保护，润滑温度可调控，为轴承工作提供更理想的工作条件，确保设备持续长时间可靠工作，和传统油脂润滑相比，轴承工作环境更理想，且无需每班停机补油。

The equipment uses the optimized diluted oil lubrication and is equipped with air cooling system. The control system adopts PLC intelligent control and can realize the automatic lubrication control and oil shortage protection. The lubrication temperature can be regulated and controlled, providing a better working condition for bearing operation and ensuring the continuous, long-time and reliable operation of the equipment. Compared to the traditional oil lubrication, the working environment of the bearing is perfect and doesn't need to add oil per shift.

---主要结构---
Detailed structure



- 1、起吊装置

Lifting Device
- 2、吊盘

Sling tray
- 3、破碎腔

Crushing cavity
- 4、踏板架

Pedal Bracket
- 5、电机

Motor
- 6、电机座

Motor Bracket
- 7、皮带轮

Pulley
- 8、轴承筒

Bearing Cylinder
- 9、支架

Bracket
- 10、机架

Frame
- 11、转子

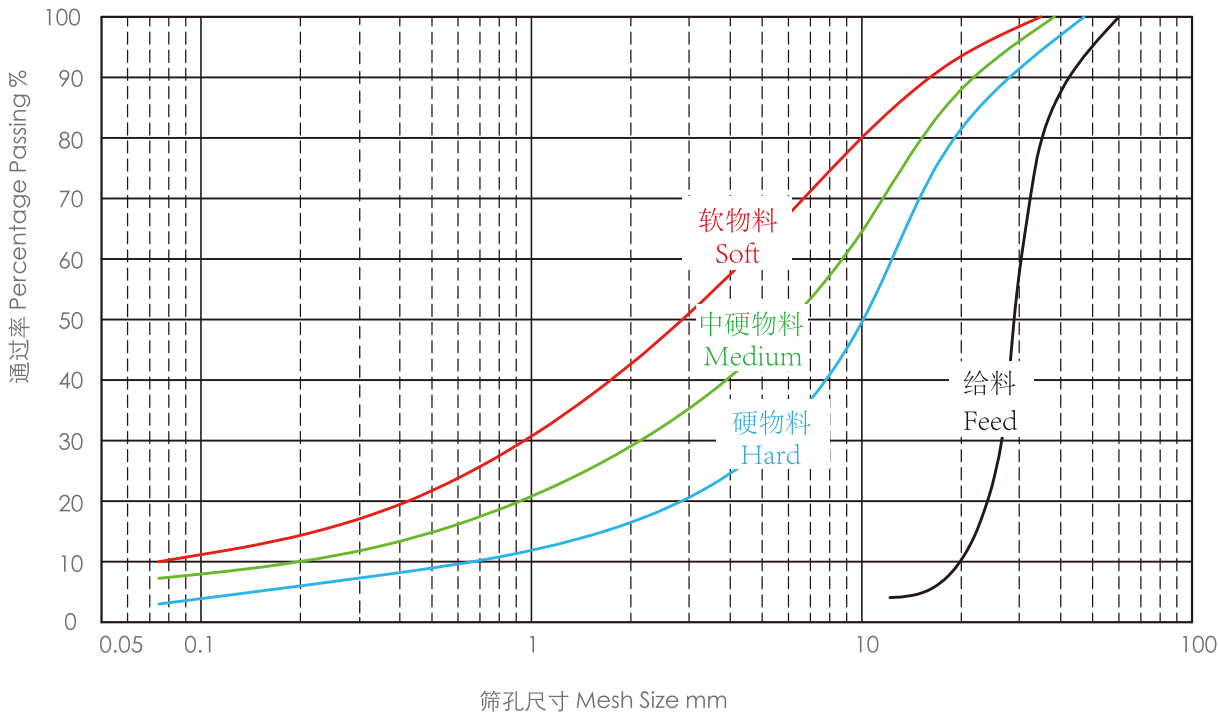
Rotor
- 12、进料斗

Hopper

技术参数
Technical information

型号	制砂	整形	制砂	整形	主轴转速	功率	外形尺寸
	Sanding making	Reshaping	Sanding making	Reshaping	Rotate speed of the main axis(r/min)	Power Range(kw)	dimen-sion(mm)
Model	最大进料粒度 Maximum feed grain size (mm)		通过量 Throughput (t/h)				
VSI6X1263	≤ 50	≤ 60	454-486	545-583	900-1200	315×2	5700×2980×4190
VSI6X1150	≤ 45	≤ 55	344-368	413-442	1000-1300	250×2	5500×2750×3950
VSI6X1040	≤ 40	≤ 50	264-283	317-342	1100-1400	200×2	5000×2600×3550
VSI6X9026	≤ 35	≤ 45	167-179	200-215	1200-1500	132×2	4200×2500×3150
VSI6X8018	≤ 30	≤ 40	109-117	131-140	1300-1700	90×2	4100×2300×2750

粒度曲线
Indicative Gradation Curves



注：筛分通过率随生产参数、给料粒度组成、物料种类和转子转速的不同而变化。由于物料的差异较大，在相同入料粒度组成和转子转速的情况下，产品粒度可能有所变化。

Note: The passing rate of the product depends on the data of production, feeding material gradation, the type of material and the speed of the rotor. Even under the same feeding gradation and the same speed of rotor, the final product size will be different if the material is various.