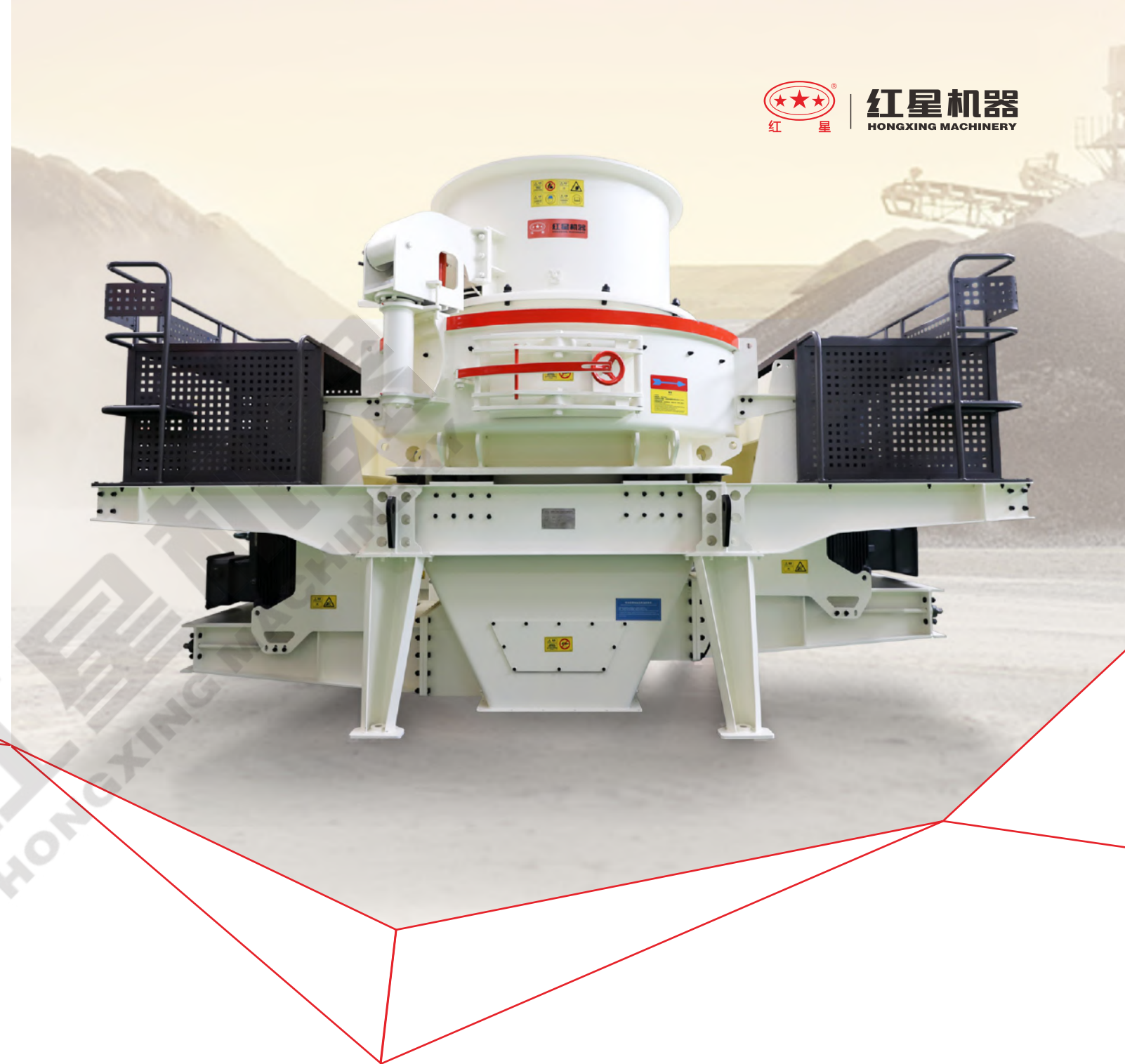




河南红星矿山机械有限公司
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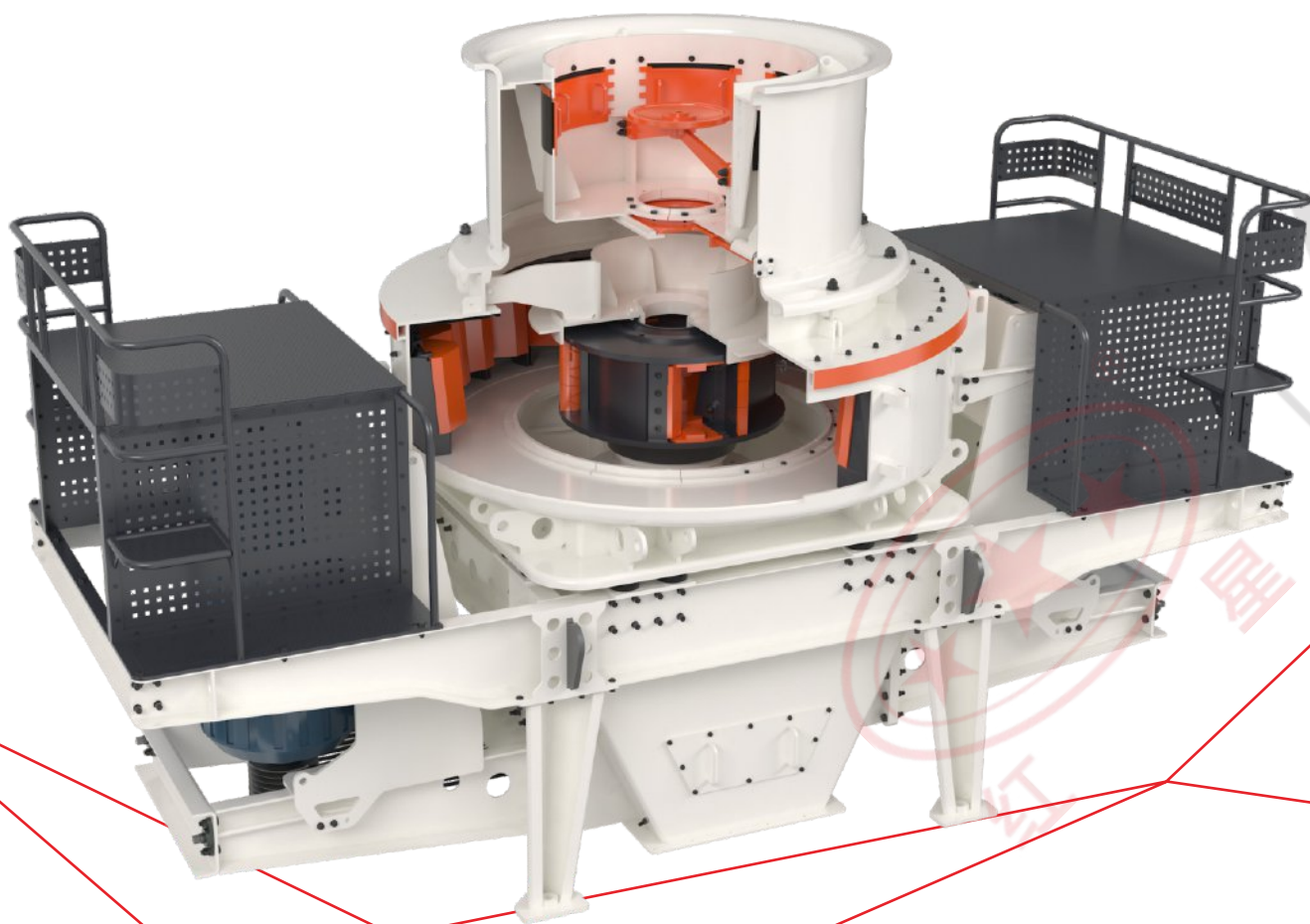
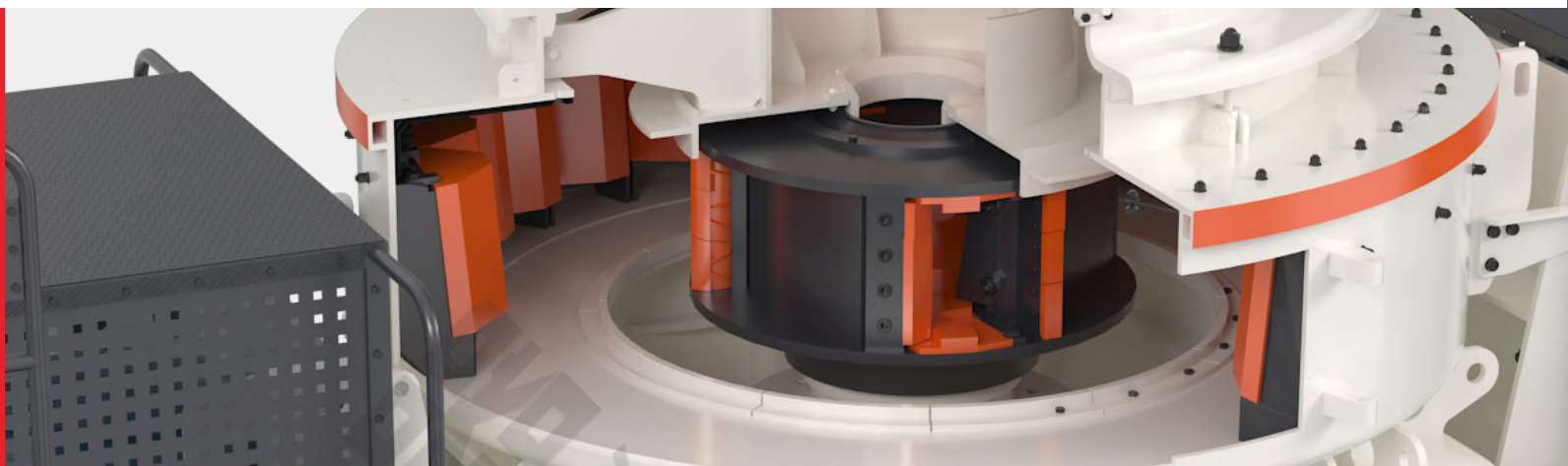


HVI系列冲击式制砂整形机

HVI SERIES IMPACT SAND MAKER WITH DEEP CAVITY

HVI系列冲击式深腔制砂整形机

HVI SERIES IMPACT SAND MAKER WITH
DEEP CAVITY



HVI系列冲击式制砂整形机

HVI SERIES IMPACT SAND MAKER WITH
DEEP CAVITY

HVI系列冲击式制砂、整形机是我公司引进德国技术，吸取国内外同类产品的先进技术开发的具有国际水平，同时拥有多项自主研发特点的新一代产品，集多种破碎模式于一体，成为机制砂行业的核心设备。可广泛应于金属和非金属矿石、建筑材料、人工制砂以及各种冶金矿渣回收的选择性破碎。

HVI Series Impact Sand Maker (Sand shaping machine) with Deep Cavity is a new generation of products that our company introduces German technology, absorbs the domestic and foreign similar product's advanced technology, and has many independent R&D characteristics at the same time ,which integrates all kinds of crushing modes and becomes the core equipment of sand making industry. It can be widely used in crushing metal and non-metallic ores, building materials, artificial sand and various metallurgical slags.



"周边进料"与"中心进料"

"PERIPHERAL FEEDING" AND "CENTRAL FEEDING"

通过调节料斗进料装置，可以轻松实现“周边进料+中心进料”和“中心进料”两种模式之间转换。调节分料盘角度可以避免物料对叶轮的直接冲击，减少叶轮非正常磨损。

By adjusting the hopper feeding device, the conversion between "peripheral feeding + center feeding" and "center feeding" modes can be easily realized. Adjusting the angle of the distribution plate can avoid the direct impact of materials on the impeller and reduce abnormal wear of the impeller.

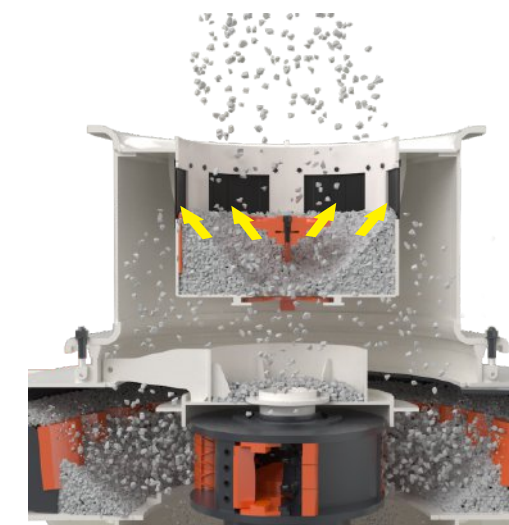
“周边进料+中心进料”骨料生产品质高

HIGH QUALITY AGGREGATE PRODUCTION OF "PERIPHERAL FEED + CENTER FEED"

1. 通过调整挡料门、进料口和分料盘，实现物料瀑落，可以额外增加30%通过量，而不增加能耗。
2. 在精品骨料整形生产时，调整叶轮中心进料量和周边瀑落进料量比例，可以获得良好的产品粒形和级配。

1. By adjusting the baffle door, the feed opening and the distribution plate, the material falls down, which can make the throughput increased by 30% without increasing the energy consumption.

2. In the production of fine aggregate shaping, adjust the proportion of feed in the impeller center feed rate and the surrounding waterfall to obtain good product particle shape and gradation.



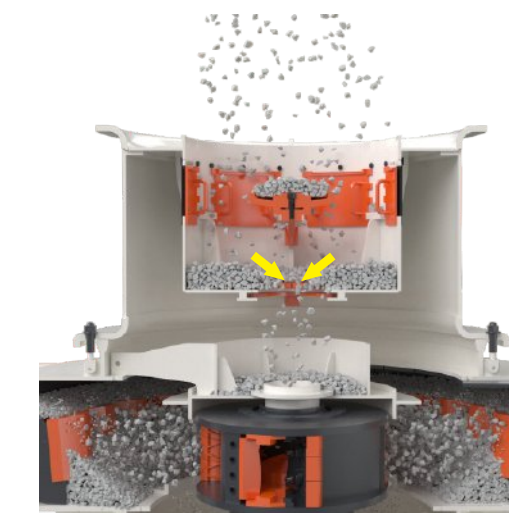
"中心进料"破碎效率高

"CENTER FEED" HAS HIGH CRUSHING EFFICIENCY

1. 调整挡料门至最高位置，实现“全中心进料”。
2. 当采用"中心进料"时，物料破碎比更大，破碎效率更高，可以最大限度的获得更多的成品粒度。

1. Adjust the baffle door to the highest position to achieve "full center feeding".

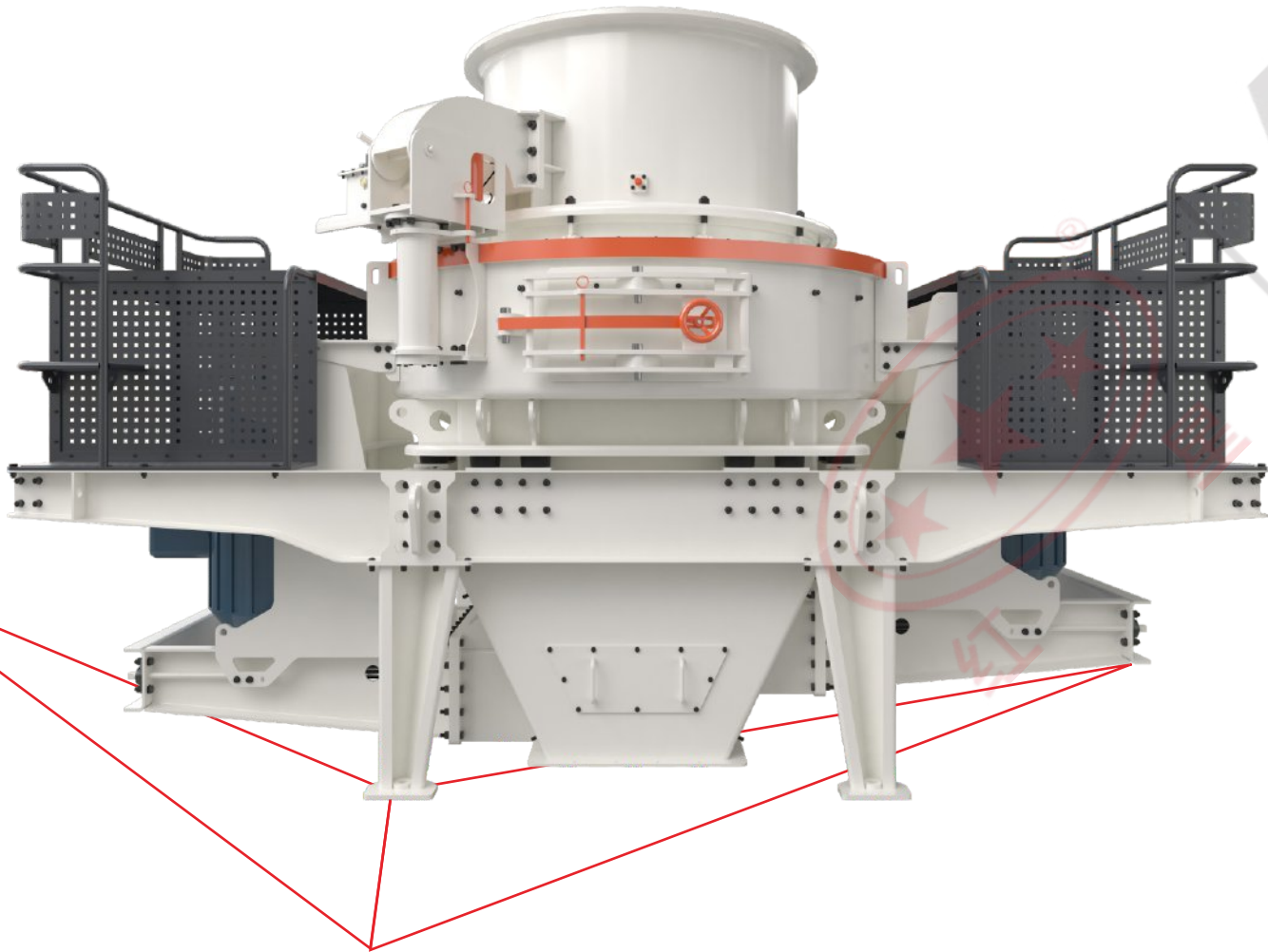
2. When adopting "central feed", the crushing ratio of materials is larger and the crushing efficiency is higher, which can maximize the quantity of finishing product.



安全可靠的设备性能
SAFE AND RELIABLE EQUIPMENT PERFORMANCE

HVI系列冲击式制砂、整形机设计中，充分考虑设备的运行安全可靠。配套西门子电机、SKF/FAG轴承和高标准稀油润滑站，确保设备运行安全可靠。

In the design of the HVI series impact sand making/shaping machine, the safety and reliability of the equipment are fully considered. It is equipped with Siemens motors, SKF/FAG bearings and high-standard thin oil lubrication stations to ensure safe and reliable equipment operation.



更合理的驱动方式
MORE RATIONAL DRIVING METHOD



- 1.HVI系列冲击式制砂、整形机转速高，采用双电机驱动的方式。主轴受到的径向力更均匀，运行平稳。
- 2.优化了电机座的固定结构，电机固定更牢靠，安装调节更轻便。
- 1. The HVI series of impact sand making and shaping machines have a high running speed and are driven by double motors, so that the radial force received by the main shaft is more uniform and the operation is stable.
- 2. The fixing structure of the motor base is optimized, which makes the motor fixed more firmly and installation and adjustment more convenient.

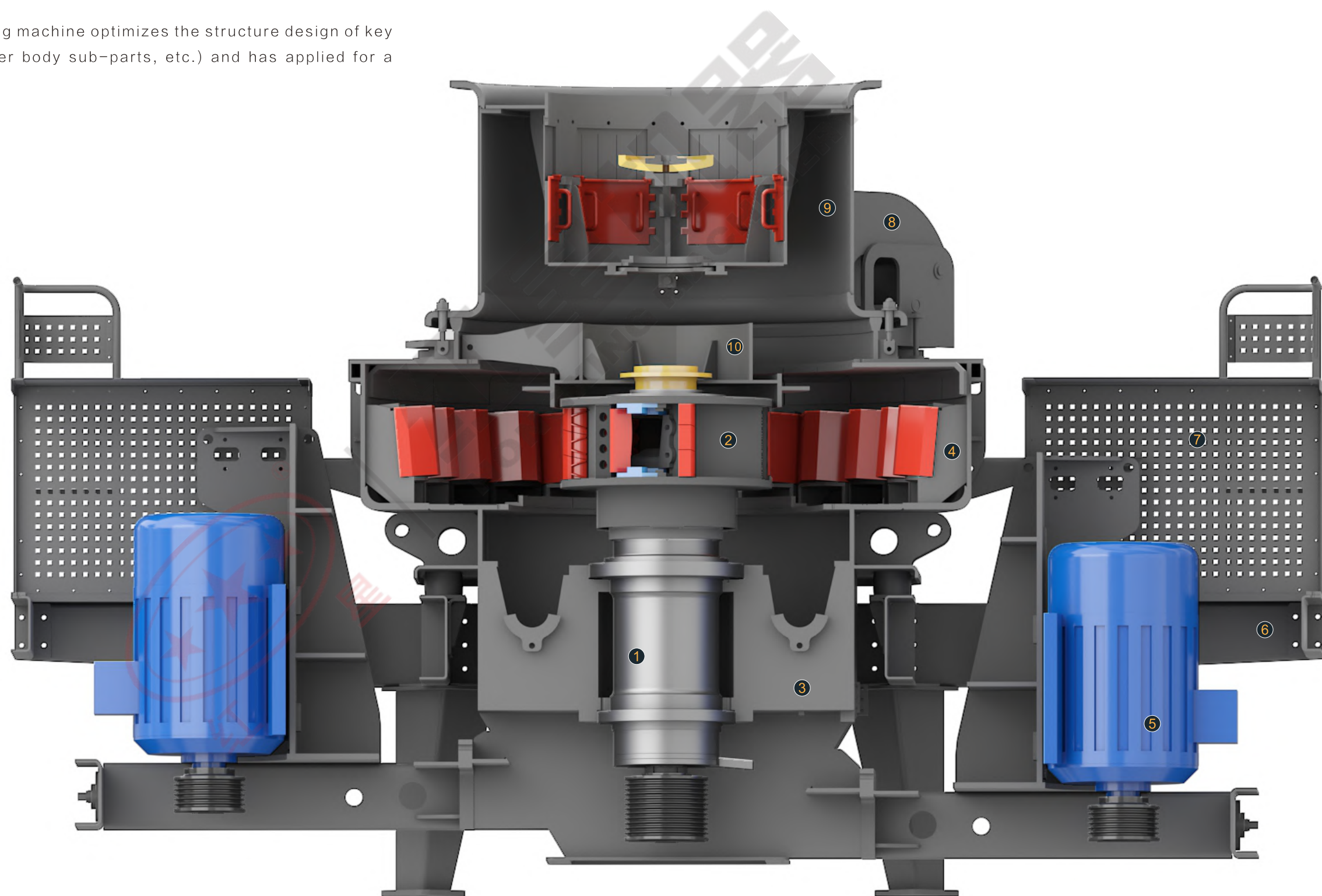
更先进的润滑及控制系统
MORE ADVANCED LUBRICATION AND CONTROL SYSTEM

- 1.量身定制的稀油润滑站，在上一代的基础上对风冷系统、温度控制、缺油保护等进行了全面升级，进一步确保设备的连续稳定运行。
- 2.可选配PLC智能化控制，通过DCS接口接入中央控制系统，实现全天候监控，可有效的将设备因故障或维护不当造成的损坏率降到最低。
- 1. The tailor-made thin oil lubrication station has comprehensively upgraded the air cooling system, temperature control, and oil shortage protection on the basis of the previous generation to further ensure the continuous and stable operation of the equipment.
- 2. PLC control can be optional, DCS interface can be connected to the central control system to achieve all-weather monitoring, which can effectively reduce the damage rate caused by equipment malfunction or improper maintenance to the minimum.

关键部件全新优化的结构设计
NEWLY OPTIMIZED STRUCTURAL DESIGN OF
KEY COMPONENTS

HVI系列冲击式制砂、整形机对关键部位（叶轮、主轴总成、下机体分部等）进行结构优化设计并申请了多项国家专利。

HVI series impact sand making/shaping machine optimizes the structure design of key parts (impeller, main shaft assembly, lower body sub-parts, etc.) and has applied for a number of national patents.



- 1. 主轴总成 Main shaft assembly
- 2. 叶轮总成 Impeller assembly
- 3. 下机体分部 Lower body section
- 4. 上机体分部 Upper body section
- 5. 传动分部 Transmission section
- 6. 机架分部 Main machine
- 7. 检修平台 Inspection platform
- 8. 升降总成 Lifting assembly
- 9. 上盖分部 Upper cover division
- 10. 吊盘分部 Hanging plate division

易损件更耐磨使用成本减少

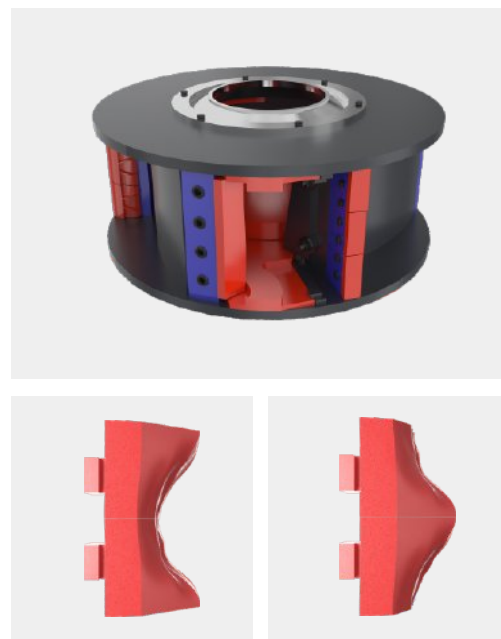
CONSUMABLE PARTS ARE MORE WEAR-RESISTANT AND LESS USE COST

1. 叶轮新工艺、新材料的采用，极大的延长了易损件寿命，有效减少停机维护时间和易损件磨损。

2. 周护板局部磨损后可以上下调头使用，提高了材料利用率，运行成本降低。

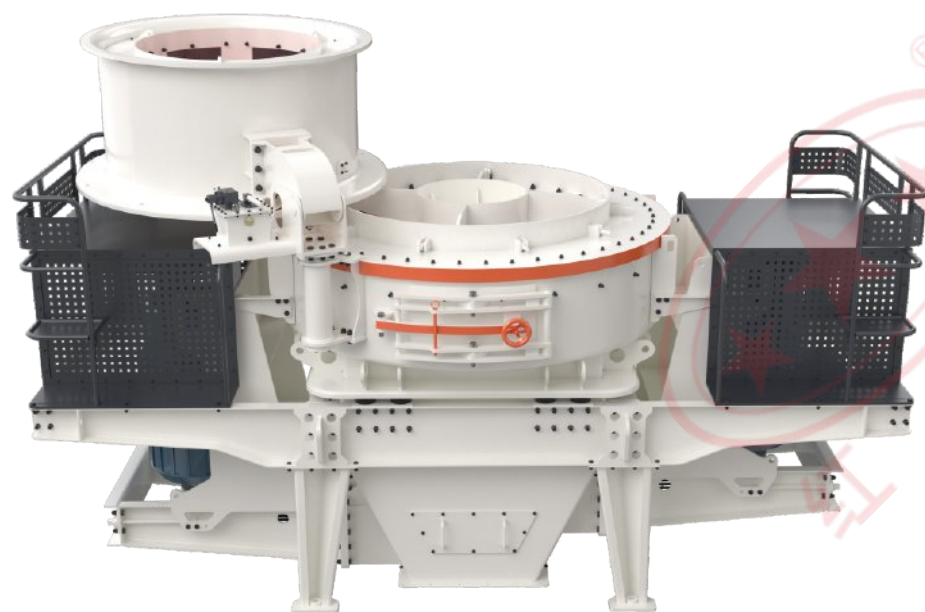
1. The use of new technology and new material for the impeller greatly prolongs the life of wear parts and effectively reduces downtime, maintenance time and wear of vulnerable parts.

2. The peripheral guard plate can be turned up and down after partial wear, which improves the material utilization rate and reduces the operating cost.



液压启盖装置维护更容易

HYDRAULIC CAP OPENING DEVICE IS EASIER TO MAINTAIN



HVI系列冲击式制砂、整形机配置液压启盖装置，降低了设备的维护保养难度，节省劳动时间。

The HVI series impact sand making/shaping machine is equipped with a hydraulic opening device, which reduces the difficulty of equipment maintenance and saves labor time.

优化的高效深腔叶轮

OPTIMIZED HIGH EFFICIENCY DEEP CAVITY IMPELLER

1. 叶轮采用深腔设计，物料通过量更大。

2. 优化后的发射口和内部流畅的曲线形设计，降低物料的流动阻力，可以大幅度提高物料的通过能力。

3. 组合式抛料头设计，只需更换磨损部分，降低了使用成本。

4. 采用先进的耐磨块结构，有效的保护了叶轮本体。

1. The impeller is designed with a deep cavity to allow larger material passage.

2. The optimal launching port and the smooth curve design reduce the flow resistance of materials and greatly improve the passing capacity of materials.

3. The combined throwing head design only needs to replace the worn parts, reducing the cost of use.

4. Adopt advanced impact block structure to effectively protect the impeller body.



模块化的主轴总成

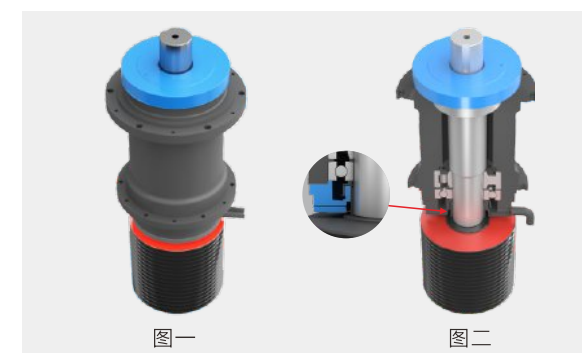
MODULAR MAIN SHAFT ASSEMBLY

1. 轴承室模块化设计，稀油润滑和油脂润滑两种润滑方式，满足客户的不同需求。

1. The modular design of the bearing chamber and two lubrication methods of thin oil lubrication and grease lubrication can meet the different needs of customers.

2. 稀油润滑轴承室，获得专利的多种密封形式组合设计，密封更可靠。

2. The bearing chamber is lubricated with thin oil, and the patented combination design of multiple sealing forms makes the sealing more reliable.



大通过量排料口设计

LARGE THROUGHPUT DISCHARGE PORT DESIGN

HVI系列冲击式制砂/整形机物料下落更顺畅，有效防止物料堵塞，避免设备非正常损坏。

HVI series impact sand making/shaping machine materials fall more smoothly, effectively preventing material blockage and avoiding abnormal equipment damage.



主要性能参数

MAIN PERFORMANCE PARAMETERS

型号 Model	通过量 (t/h) Throughput (t/h)		最大进料粒度 (mm) Max. feeding size		主轴转速 Rotate speed of the main axis(r/min)	功率 (kw) Power(kw)
	制砂 Sand Making	整形 Shaping	软料 Soft Materials	硬料 Hard materials		
HVI0815	50 ~ 140	90 ~ 230	< 35	< 30	1360-1780	2 × 75
HVI0818	60 ~ 190	110 ~ 283	< 35	< 30	1260-1670	2 × 90
HVI0922	70 ~ 145	150 ~ 330	< 40	< 35	1200-1590	2 × 110
HVI0926	85 ~ 190	170 ~ 380	< 40	< 35	1140-1490	2 × 132
HVI1032	130 ~ 278	180 ~ 356	< 45	< 40	1090-1420	2 × 160
HVI1040	180 ~ 284	250 ~ 440	< 45	< 40	1020-1380	2 × 200
HVI1263	320 ~ 498	370 ~ 585	< 55	< 50	930-1300	2 × 315

注：1.成品粒度大小分布与原料硬度、大小、化学成份、年代等因素有关。

2.表中生产能力：下限=线速度V=70m/s（0%瀑布流） 上限=线速度50m/s（30%瀑布流）

Note:

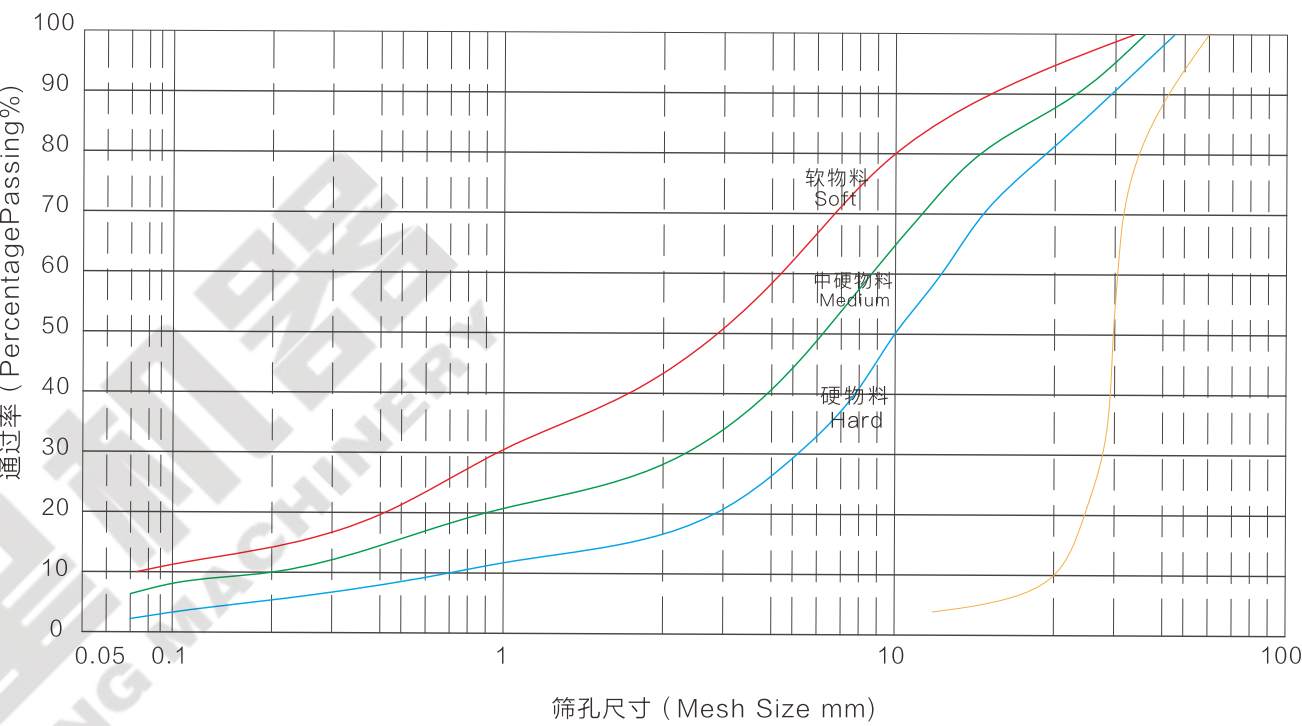
1.The size distribution of finished product is related to the hardness, input size, chemical composition and age of raw materials.

2.Production capacity in the table: Lower limit = line speed V = 70m / s (0% waterfall flow)

Upper limit = line speed 50m/s (30% waterfall flow)

粒度曲线

PARTICLE SIZE CURVE



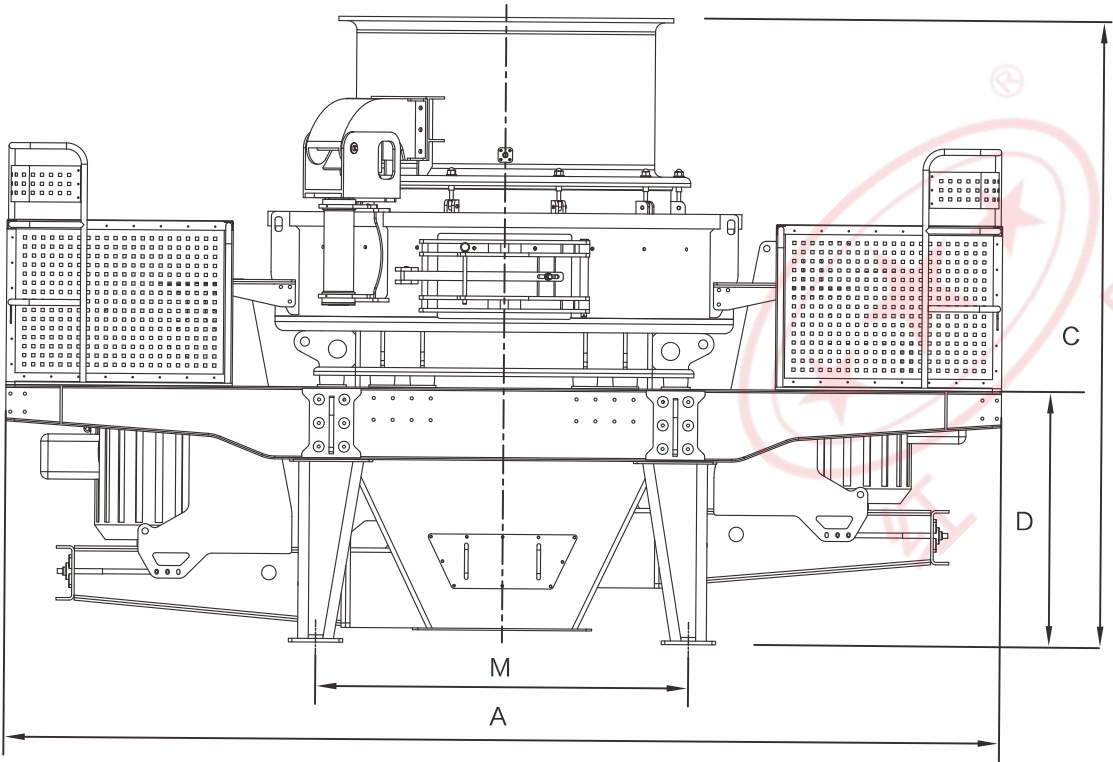
注：筛分通过率、给料粒度、物料种类、生产参数以及叶轮转速等因素变化而变化。由于物料有很大差异，在相同粒度、叶轮转速等情况下，产品率和产品粒度会有所变化。

Note: The screening pass rate varies with factors such as feeding size, material type, production parameters and impeller speed. Due to the big differences in materials, product rates and product sizes may vary at the same particle size, impeller speed and etc.

外形尺寸

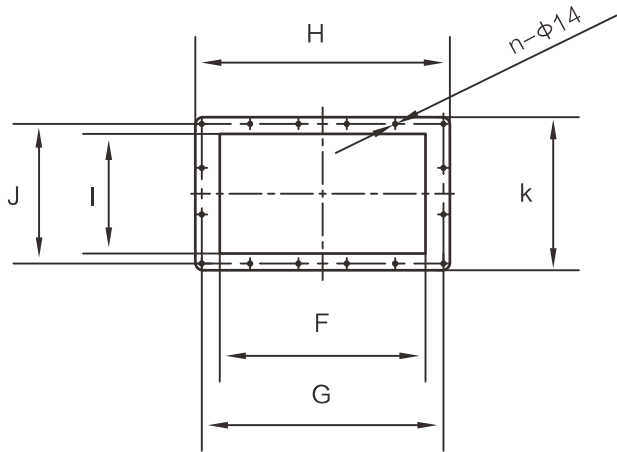
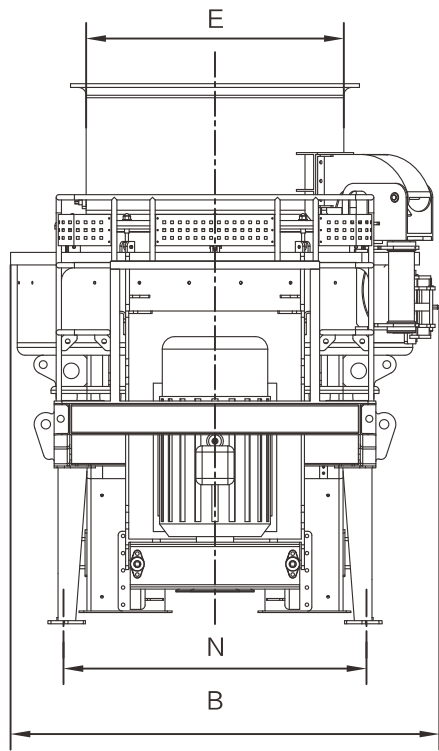
CONTOUR DIMENSION

外形尺寸	HVI0815	HVI0818	HVI0922	HVI0926	HVI1032	HVI1040	HVI1263
A	4700	4700	5000	5000	5100	5100	5500
B	2410	2410	2510	2510	2620	2620	2750
C	2900	2900	3050	3050	3240	3240	3460
D	1050	1050	1150	1150	1300	1300	1410

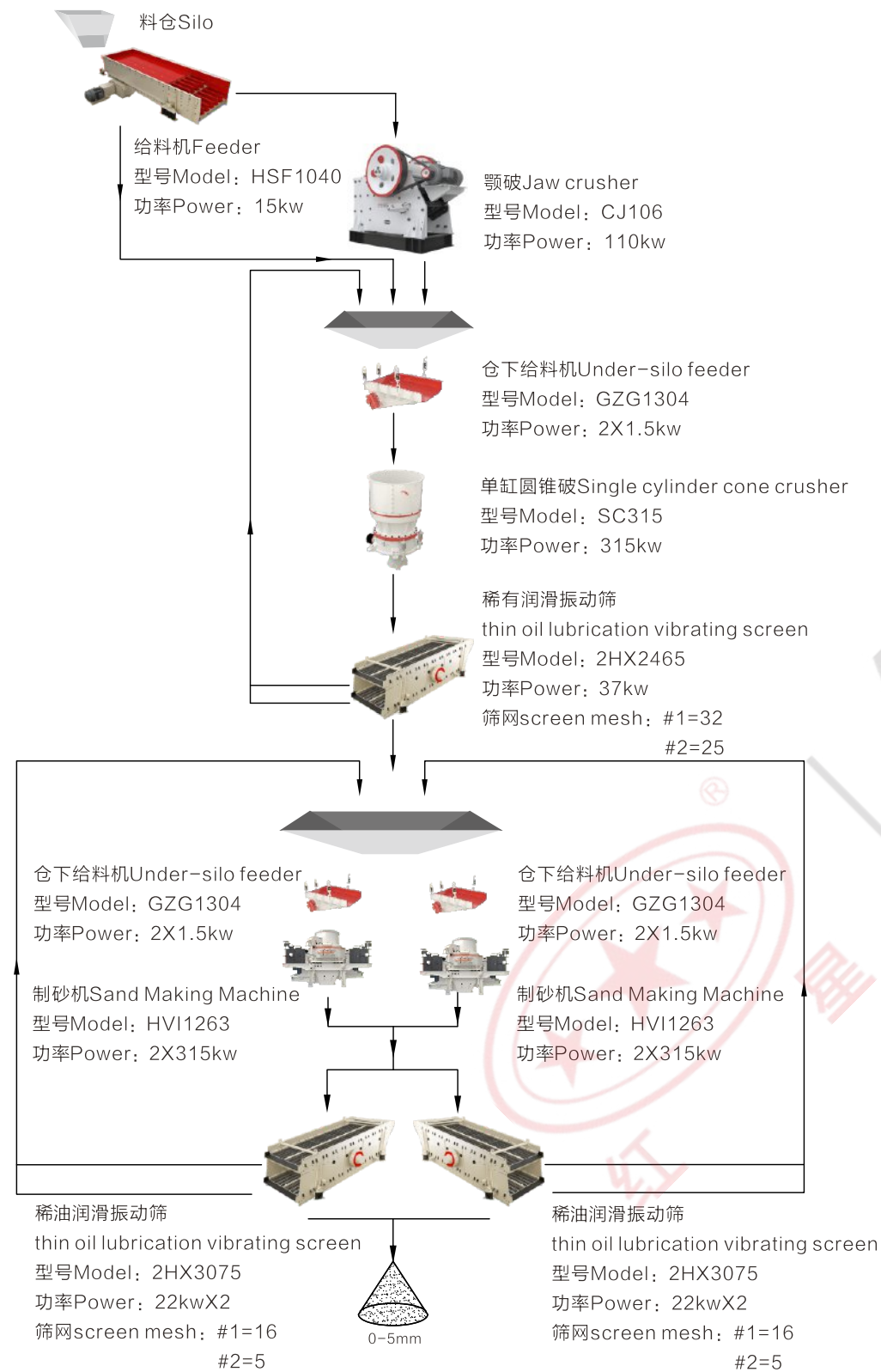


进出料口 尺寸	HVI0815	HVI0818	HVI0922	HVI0926	HVI1032	HVI1040	HVI1263
E	φ1350	φ1350	φ1410	φ1410	φ1490	φ1490	φ1650
F	700	700	730	730	750	750	800
G	164*5	164*5	170*5	170*5	176*5	176*5	188*5
H	870	870	900	900	930	930	990
I	380	380	395	395	415	415	465
J	154*5	154*5	159*5	159*5	165*3	165*3	171*3
K	510	510	525	525	545	545	595
n	16	16	16	16	16	16	16

安装尺寸	HVI0815	HVI0818	HVI0922	HVI0926	HVI1032	HVI1040	HVI1263
M	1770	1770	1820	1820	1920	1920	2060
N	1650	1650	1700	1700	1800	1800	1940

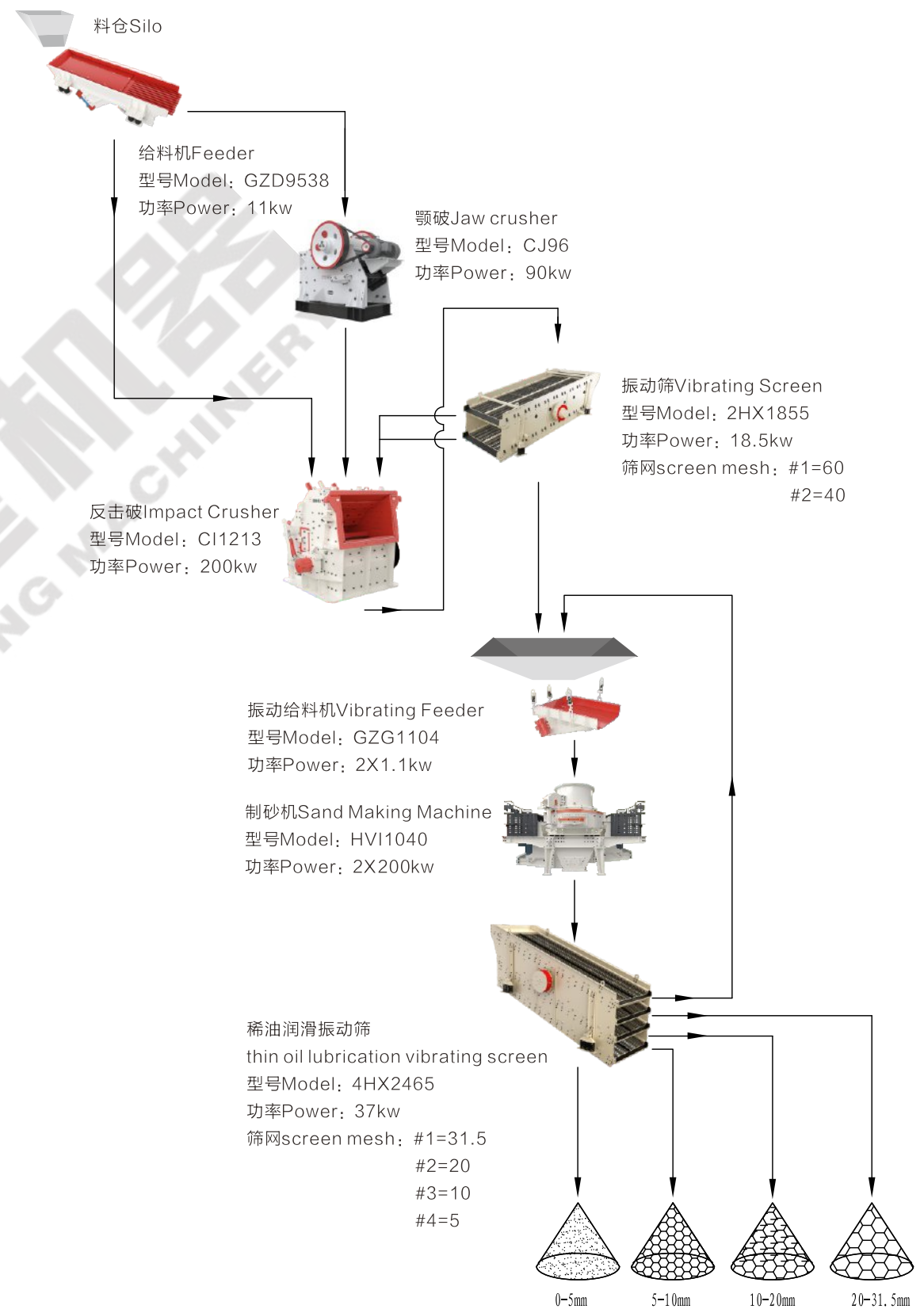


典型制砂工艺及设备配置
TYPICAL SAND MAKING PROCESS AND EQUIPMENT
CONFIGURATION



(硬岩制砂工艺)

HARD ROCK SAND MAKING PROCESS



(软岩砂石整形制砂工艺)

SOFT ROCK SANDSTONE SHAPING AND SAND MAKING PROCESS

设备展示
EQUIPMENT DISPLAY



客户现场
TYPICAL CASES

