



红星机器
HONGXING MACHINERY

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CI系列反击式破碎机

CI SERIES IMPACT CRUSHER



红星机器
HONGXING MACHINERY

高效率的反击式破碎机

High-efficiency impact crusher

红星集团依托四十年的技术积累沉淀，从设备的效率、质量及维护成本等方面综合考虑，设计研发出了CI系列新型反击式破碎机。它是综合国内外优秀的科研技术研发而成的一款破碎设备，是我公司不断创新的杰作。

主要应用于中等硬度低磨蚀性的采石和砾石、水泥、混凝土以及沥青回收利用、矿渣回收利用等行业，在粗碎、中碎、细碎以及回收利用应用中均能表现出卓越的破碎效果。

HongXing Group relies on 40 years of technology accumulation and precipitation, Considering the efficiency, quality and maintenance cost of the equipment, the CI series of new impact crushers have been designed and developed. It is a crushing equipment developed by integrating excellent scientific research technology at home and abroad, and it is a masterpiece of our company's continuous innovation.

It is mainly used in industries such as medium hardness and low abrasive quarrying and gravel, cement, concrete and asphalt recycling, slag recycling, etc. It can exhibit excellent crushing effects in coarse crushing, medium crushing, fine crushing and recycling purposes.



产量更高

破碎腔大，给料粒度大，通过优化衬板和特定的转子，实现了更大的破碎比，提高了生产效率。

Higher capacity

The crushing cavity is large and the feed size is large. By optimizing the liner and the specific rotor, a larger crushing ratio is realized and the production efficiency is improved.

应用范围更广

通过设备自身的调整与组合可适应多种工况，破碎硬度高、块度大的物料，产品颗粒形状好且石粉少。

Wider application range

Through the adjustment and combination of the equipment itself,

it can be adapted to a variety of working conditions, crushing materials with high hardness and large lumps, and the product has a good particle shape and less stone powder.

维护成本更低

高质量的设备加上新型高耐磨材料的大量使用，可延长易损件的使用寿命，节约人工和时间成本，提高生产效率。

Lower maintenance costs

High-quality equipment coupled with the extensive use of new high-wear-resistant materials can prolong the service life of wearing parts, save labor and time costs, and improve production efficiency.

更大的破碎比

Greater crushing ratio

精细化的设计理念

优化设计的转子和破碎腔型（高效渐开线型）、转速和功率合理匹配，满足粗碎、中细碎和物料回收的不同应用选择；

Refined design concept

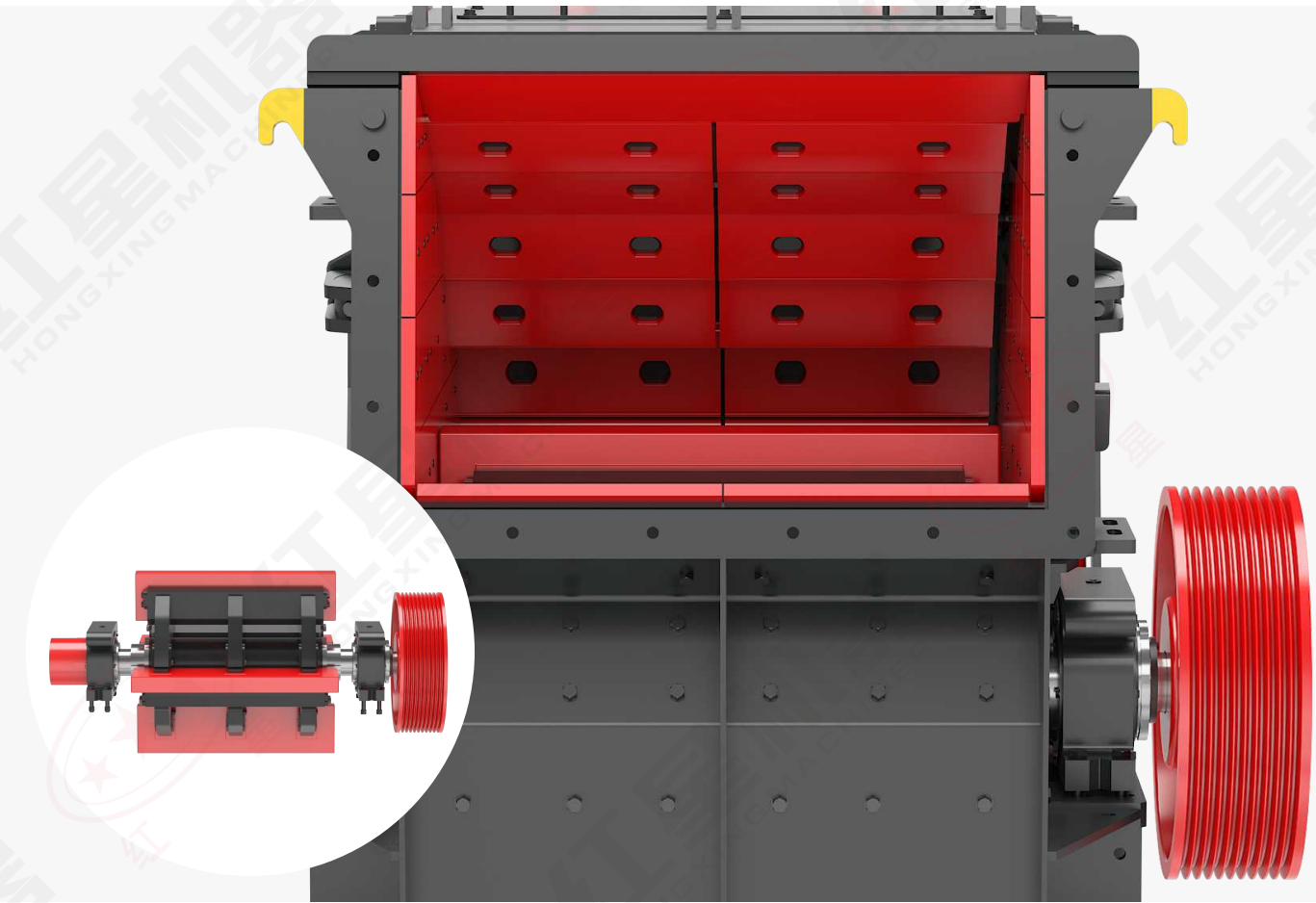
Optimized design of rotor and crushing cavity type (high-efficiency involute type), reasonable matching of speed and power, to meet different application options of coarse crushing, medium and fine crushing and material recovery;

坚固的重型转子结构

更大转动惯量的重型转子，高质量的焊接结构，确保设备能承受最大冲击并获得良好的破碎效果；

Robust heavy-duty rotor structure

The heavy-duty rotor with larger moment of inertia and the high-quality welding structure ensure that the equipment can withstand the maximum impact and obtain a good crushing effect;



可靠的系统及装置

Reliable systems and devices



独特的板锤锁紧系统

独特形状的板锤，牢靠的锁紧结构，使板锤具有良好的抗冲击、抗磨损性能并保持排料粒度稳定。板锤可以垂直和水平方向更换，适应不同现场需求。

Unique hammer locking system

The unique shape of the blow bar and the firm locking structure make the blow bar have good impact resistance and abrasion resistance and maintain a stable discharge particle size. The blow bars can be replaced vertically and horizontally to adapt to different site requirements.

安全锁止装置

设备配有多种安全锁装置，提高安全性能的同时降低了劳动强度。

Safety locking device

The equipment is equipped with a variety of safety lock devices to improve safety performance and reduce labor intensity.

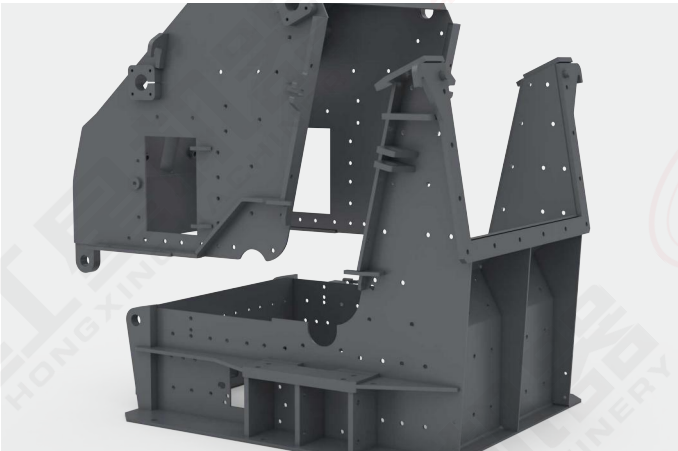
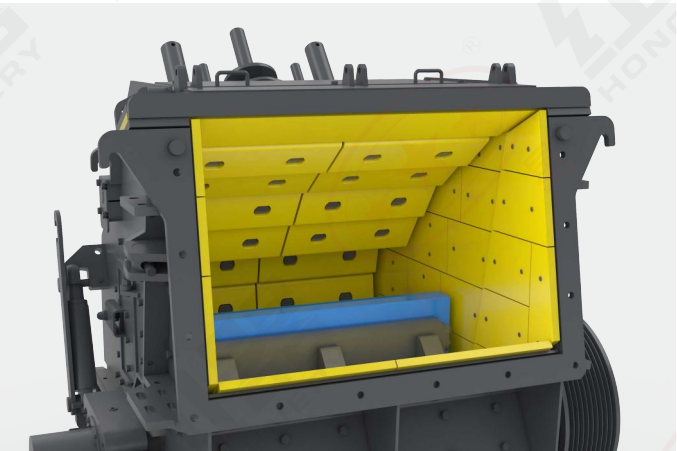


新型高耐磨材料

模块化设计使得大部分易损件可互换，有效降低磨损件消耗，延长更换周期，减少配件库存，节约成本。

New high wear-resistant material

The modular design makes most of the wearing parts interchangeable, effectively reducing the consumption of wearing parts, extending the replacement cycle, reducing parts inventory, and saving costs.



高强度机架

通过优化机架结构使连接强度更高，并且重量轻、结构紧凑，方便安装维护及运输。

High strength frame

By optimizing the frame structure, the connection strength is higher, and the weight is light and the structure is compact, which is convenient for installation, maintenance and transportation.



多功能液压装置

液压开盖、排料口的液压调节装置（具备自动过载保护功能），可快速完成磨损件更换，控制设备的排料粒度和级配，实现调节精度高、速度快，可减轻劳动强度、缩短停机时间；

Multi-functional hydraulic device

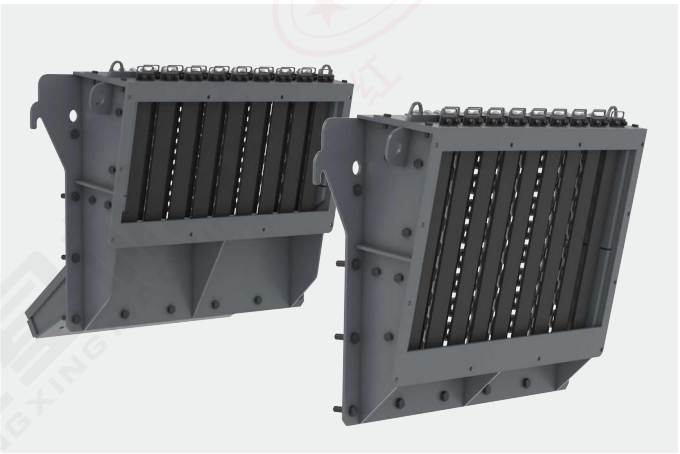
Hydraulic adjustment device for opening the lid and the discharge port (with automatic overload protection function), which can quickly complete the replacement of wear parts, control the discharge granularity and gradation of the equipment, achieve high adjustment accuracy, fast speed, and reduce labor intensity and shorten Downtime;

可选配置

- 1.可选装第三反击架，使产品粒形更完美；
- 2.磨损件材质、电机轮、进料斗等均可选配，使设备适用于不同工况。

Optional

1. The third impact rack is optional to make the product shape more perfect;
2. The material of the wearing parts, the motor wheel, and the feed hopper are all optional to make the equipment suitable for different working conditions.



技术参数

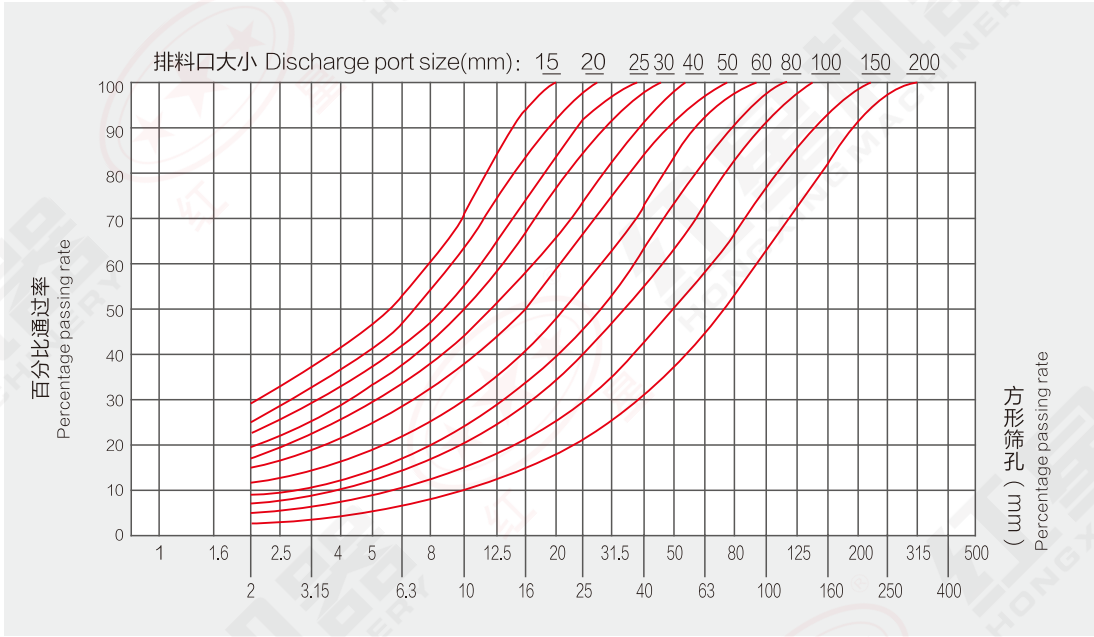
Technical parameter

型号 Model		转子规格 Rotor Specifications(mm)	最大给料粒度 Maximum Feeding size(mm)	电机功率 Motor power (kW)	生产能力 production capacity(t/h)	外形尺寸(长×宽×高) Dimensions (L x W x H) (mm)
中细碎 Medium crushing	CI 1110	1100×1000	250	160	60~210	2826×2087×2285
	CI 1213	1200×1300	300	200	80~280	2903×2530×2411
	CI 1316	1300×1500	300	250	100~350	2970×2770×2535
	CI1321	1300×2000	300	315	130~430	2955×3285×2585
	CI 1521	1500×2000	350	2×（200~250）	200~600	3450×3620×2770
	CI 1524	1500×2400	350	2×315	240~700	3450×3925×2855
	CI1630	1600×3000	400	710~800	300~900	3693×4520×3173
粗碎 Coarse crushing	CI 1313	1300×1300	600	200	100~480	2972×2560×2937
	CI 1415	1400×1500	600	250	120~600	2985×2790×3068
	CI 1620	1600×2000	800	2×（200~250）	220~900	4261×3480×3780
	CI 2023	2000×2300	800	2×500	400~2000	5151×4424×4712

注：处理能力与物料性质、给料粒度、成品粒度、含水量等有很多不确定因素有关，以上数据仅供参考，一切以实际处理量为准。
Note: There are many uncertain factors related to the processing capacity and the nature of the material, the size of the feed, the particle size of the finished product, and the water content. The above data is for reference only, and everything is subject to the actual processing volume.

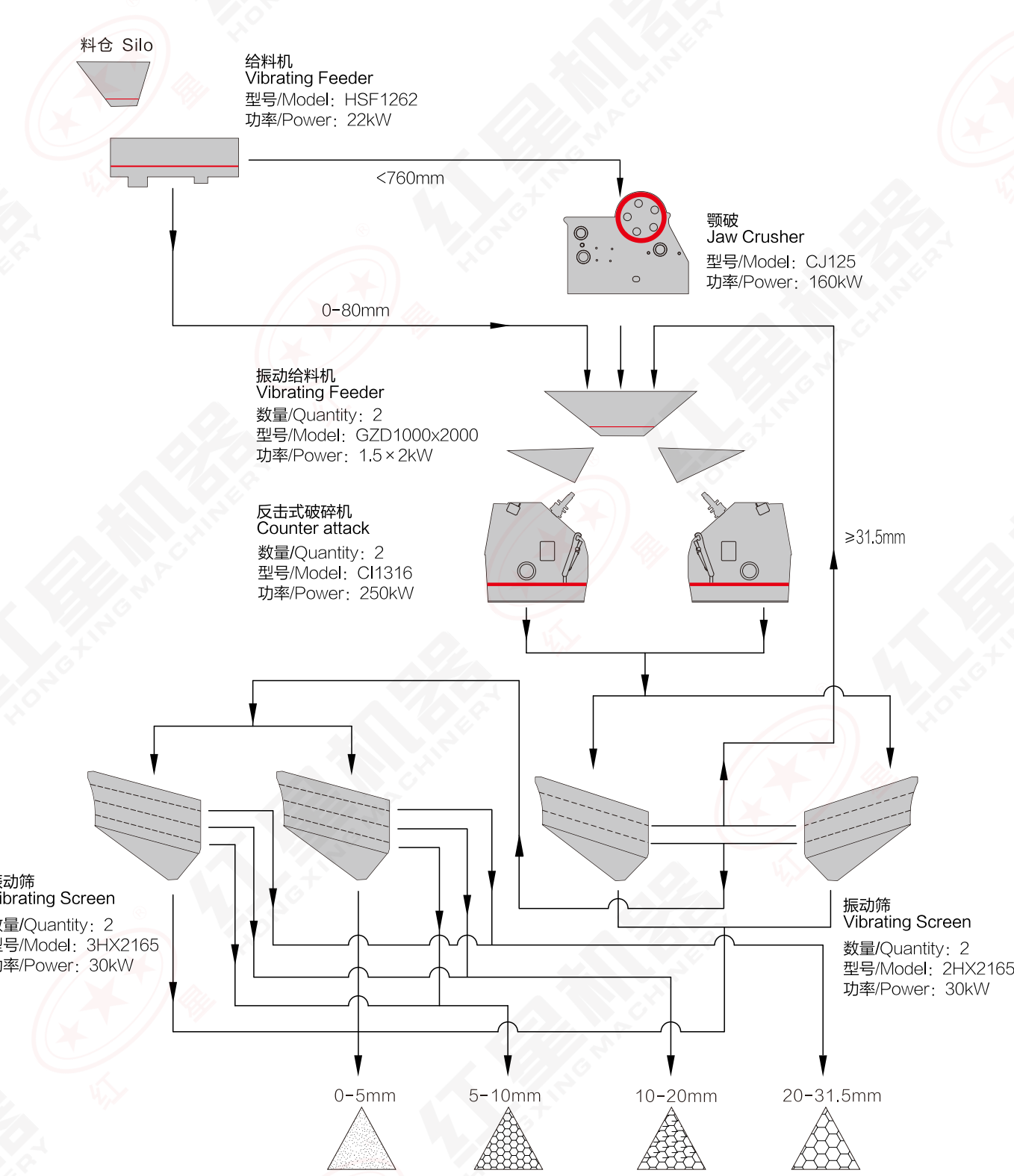
粒度分布曲线

Indicative gradation curve



石料破碎工艺流程图(450-600t/h)

Stone crushing process flow chart(450-600t/h)



拥有独特结构优势的 反击式破碎机

Impact crusher with unique structural advantages

- ① 轴承座

整体式轴承座设计，降低了损坏风险。

Bearing seat

Integral bearing seat design reduces the risk of damage.
- ② 脂润滑

脂润滑和可靠的密封结构，保证设备连续可靠工作。

Grease lubrication

Grease lubrication and reliable sealing structure ensure continuous and reliable operation of the equipment.
- ③ 反击衬板

磨损后可与其它反击衬板互换，利用率高。

Impact lining plate

After being worn out, it can be interchanged with other impact lining plates, with high utilization rate.
- ④ 皮带轮

皮带轮可左右装配，适应不同需求。

Pulley

The pulley can be assembled left and right to meet different needs.
- ⑤ 主轴

采用优质锻造合金钢，经高精加工与热处理，配合精密，承载力大。

Spindle

Using high-quality forged alloy steel, high-precision processing and heat treatment, precise coordination, large bearing capacity.
- ⑥ 板锤

抗冲击、抗磨损，板锤经过精加工后断裂风险低，锁紧牢固。

Plate hammer

Anti-stamping, anti-wear, low risk of breakage after finishing the plate hammer, and firm locking.

- ⑦ 转子

具备大转动惯量的坚固重型转子结构，可提高设备处理量和破碎比。

Rotor

The robust and heavy-duty rotor structure with large moment of inertia can increase the equipment handling capacity and crushing ratio.
- ⑧ 焊接机架

高质量的焊接结构，加上去应力处理，确保设备能承受最大冲击并获得良好的破碎效果。

Welding frame

The high-quality welded structure, coupled with stress relief treatment, ensures that the equipment can withstand the maximum impact and obtain a good crushing effect.
- ⑨ 反击架

反击架牢固焊接，耐磨反击衬板通过大直径螺栓紧固在反击架上，整体强度高；通旋转轴结构，使反击架摆动灵活。

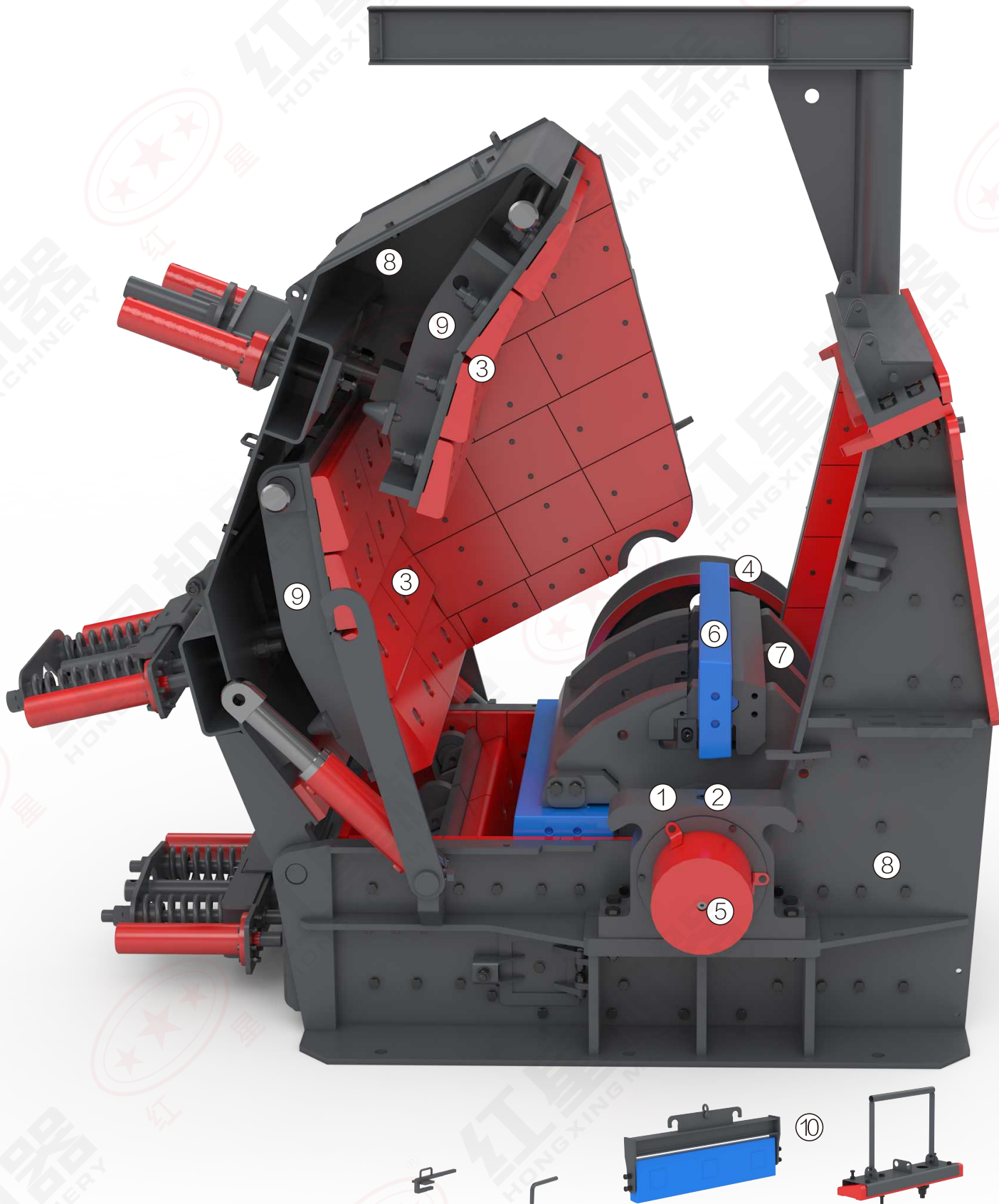
Impact Frame

The impact frame is firmly welded, and the wear-resistant counterattack liner is fastened to the impact frame by large-diameter bolts with high overall strength; Through the rotating shaft structure, the impact frame can swing flexibly.
- ⑩ 可选专用拆装工具

使得日常维护以及磨损件拆装更快捷安全。

Optional special disassembly tools

Make daily maintenance and disassembly and assembly of wear parts faster and safer.



带给用户更大的价值

Bring greater value to users

历史底蕴/Historical background:



高端智能矿机生产出口基地

红星集团以为用户创造更大的价值为使命，经过40多年的积累，已成为20万+客户的选择，产品遍布世界各地。

High-end smart mining machine manufacture and export base

Hongxing Group takes the mission of creating greater value for users. After more than 40 years of accumulation, we have become the choice of 200,000+ customers, and our products are all over the world.



精湛的技术专家团队

专业的研发及售前、售后技术团队，为您提供专业的解决方案。完善的客户回访管理机制，全面、系统的培训体系，为您的后期使用提供全面的技术支持。

Superb team of technical experts

The professional R&D and pre-sales technical team will provide you with professional solutions. Perfect customer return visit management mechanism, comprehensive and systematic training system, will provide comprehensive technical support for your later use.



全面的制作能力

公司主要生产有破碎设备、制砂设备、磨粉设备和选矿设备四大系列产品。设备的全面性可为您提供一站式服务。

Comprehensive manufacturing capacity HXJQ mainly produces four series of products: crushing equipment, sand making equipment, grinding equipment and ore beneficiation equipment. Because of comprehensiveness of the equipment, we can provide you with one-stop service.



我们的售后服务

我们深知真正的销售是从售后开始的。红星人365天*24小时专业售后团队随时待命，为您的生产保驾护航。

Our after-sales service

We know that real sales start from after-sales. The professional after-sales team of Hongxing 365 days * 24 hours is on standby to escort your production.

我们的愿景/Our vision:

成为全球客户所信赖的产品和解决方案供应商。

Become a trusted supplier of products and solutions to global customers.

我们的使命/Our mission:

为用户创造更大的价值。

Create greater value for users.



板锤
Plate hammer



反击衬板
Impact plate liner



耐磨衬板
Wear-resistant liner

液压站细节

Details of Hydraulic station

