JC Series Jaw Crusher

上海山美环保装备股份有限公司
(原上海山美重型矿山机械股份有限公司)
SHANGHAI SANME MINING MACHINERY CORP., LTD.
(中德合资控股)
(Sino-German JV Holding)
JC series Jaw Crusher has adopted professional crushing technology and research achievement, it is the new crusher which is successfully developed by using finite element analysis method based on years' experience on jaw crusher design and manufacture. Compared with traditional jaw crusher, JC series Jaw Crushers pay more attention to the details. Adopt high-strength material, first-class manufacturing process, and the JC series Jaw Crushers provide the professional of excellent-strength structure, reliable equipments, higher crushing ratio, bigger capacity and lower cost.

JC 欧星系列颚式破碎机是采用专业的破碎技术和研究成果，在几十年的颚式破碎机设计制造经验的基础上，采用有限元分析方法成功开发的新一代产品。

与传统的颚式破碎机相比，JC 欧星系列颚式破碎机在设计和制造方面更重视细节，采用高强度材料及专业的制造工艺，具有结构强度更高、设备可靠性更高、破碎比更大、产量更高、综合加工成本更低等优势。
Features and Benefits
JC欧星系列颚式破碎机主要特点

1. Sturdy Structure
   Two kinds of Frames: Welded and Packaged. Usually, small and medium sized model adopts welded, large model adopts packaged. Welded frame adopts wide transitional round edge, significantly reducing the stress concentration, ensure the frame under equal strength. It owns the features of good impact resistance and low failure rate, bears same pressure, etc.
   Packaged frame uses advanced modularization, no-welding frame structure design, high endurance strength and reliability. The whole set assembling design is convenient for the transporting and installation, especially suitable for installation of underground mine shaft, high altitude mine, as well as other narrow and difficult transporting place.

2. The optimized cavity design enables excellent material feeding capacity
   The cavity is engineered in symmetrical “V” type, providing a good steep angle of the toggle plate and a long stroke, which enables a large size of feeding material, high output and better gradation also reduces wear on the jaw plate comparing with traditional PE Series Jaw Crushers.

1. 机器 Frame  2. 固定颚板 Fixed Jaw Plate
3. 动颚板 Movable Jaw Plate  4. 动颚 Movable Jaw
5. 偏心轴 Eccentric Shaft  6. 船板 Toggle
7. 电机 Motor

Comparison between JC Series and PE Series about feed opening
JC系列与PE系列进料口的比较：
Long Working Life of the Heavy-duty Movable Jaw Assembly
Heavy-duty Movable Jaw Assembly adopts heavy-duty eccentric shaft, high quality heavy-load rolling bearings and finite element software optimized movable jaw plate ensuring impact resistance and high stability of moving jaw assembly; labyrinth seal and centralized lubrication system guarantee the bearing lubrication oil is not contaminated and lubrication becomes more convenient. Therefore the assembly can have a long working time and stability.

Shield Design for the Movable Jaw
Heavy shield is installed above the movable jaw to avoid the material impact. It can effectively protect the movable jaw and its internal bearing from damaging.

Overall Bearing Support
Overall cast steel bearing housing fully compatible with the frame, avoiding the combined bearing housing has a unnecessary radical load on the bearing during the fastening process, making the bearing to run more smoothly.

Convenient Discharge Setting Adjustment
JC series Jaw Crusher adopts mechanical or hydraulic adjustment for the discharge range, compared with shim adjustment, double wedge adjustment operations is simpler, secure, fast, and saves more downtime.

Integrated Motor Installation
Integrated installation of motor seat and frame can not only save installation space, but also can prolong the service life of v-belt, due to the synchronous movement of frame, motor seat, and motor, adjustable motor seat can adjust v-belt tension.

Vibration Absorption Design
Crusher fixed by rubber vibration absorption device, which can effectively absorb vibration peak, while allow the crusher to move vertically and longitudinally, thus reducing the impact on the foundation.
<table>
<thead>
<tr>
<th>型号</th>
<th>Model</th>
<th>有效进料口尺寸</th>
<th>Size of Feed Opening(mm)</th>
<th>排料口调整范围</th>
<th>Discharge Range(mm)</th>
<th>处理能力</th>
<th>Capacity(THP)</th>
<th>电机功率</th>
<th>Motor Power(kw)</th>
<th>重量（带护罩不含电机）</th>
<th>Weight (with guard, excluding motor)(kg)</th>
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<tbody>
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Note: the data is sampled according to on-site operation conditions.

The closed side setting is used for production according to applications and production requirements. For detailed information about the applications of the crusher, please consult Samee.

The above figures show the output and capacity of the crusher for processing medium and hard materials with bulk density of 1.6t/m³. The materials can readily enter the crushing chamber without bridging, the minimum value will be used with feeding material in case of eliminating fines(smaller than crusher setting), and maximum value will be used for feeding materials including fines. The capacity may vary depending on the feeding method and feed characteristics such as gradation, moisture, clay content, bulk density and crushability.

Measurement of the jaw crusher’s closed side setting varies depending on the jaw profile that is being used, which will affect the capacity of the crusher and the size of the product. The capacity and performance of the crusher can be improved by following factors:

1. Proper selection of the jaw plate
2. Proper feed gradation
3. Controlled feed rate
4. Enough capacity of the feeder and adequate feed width
5. Adequate crusher discharge area
6. Suitable discharging conveyor is well matched with the maximum capacity of the crusher

Note: 该数据根据当地使用情况采集获得。

根据用途及生产要求调节紧边排料口，欲了解破碎机在具体应用中的性能，请与山美工程师联系。

以上数据所表示的破碎机产量，处理能力为加工中硬物料，破碎物料粒度密度为 1.6t /m³ 时的数据，给料能够顺利进入破碎腔，无架桥卡堵现象，给料物料小于排矿口最小时取小值，给料物料大于大值，产量可能随给料方式和物料性质即粒度组成、含水率含量、粒度大小和可碎性而变化。

破碎机紧边排料口的检测方法随所用颚板齿型的变化有所不同，它将对破碎机的能力和产品粒度产生影响。

以下因素可提高破碎机的能力和性能：
上海山美环保装备股份有限公司
（原上海山美重型矿山机械股份有限公司）
SHANGHAI SANME MINING MACHINERY CORP., LTD.
（中德合资控股）
（Sino-German JV Holding）

地址：上海市奉贤区青村镇奉村路258号
邮编：201414
电话：021-5759 1166 5759 1188
传真：021-5756 6188 5820 0089
网址：www.shsmcjm.com
电邮：info@sanmecorp.com

Add: No. 258, Fengcun Road, Qingcun County, Fengxian District, Shanghai 201414, China
Tel: +86-21-5712 1166 5759 1188
Fax: +86-21-5756 6188 5820 0089
Website: www.sanmecrusher.com
E-mail: sales@sanmecorp.com

免费热线：400-921-5566
售后专线：021-5712 7766

Free Hotline: 400-921-5566
Service Center: +86-21-5712 7766

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