

# YIFAN



## CJ 系列颞式破碎机

## CJ Series Jaw Crusher

Leading crushing and screening equipment manufacturer in China

中国领先的破碎筛分设备制造商

郑州一帆机械设备有限公司(由山德技术(北京)有限公司控股),是中国知名的破碎筛分设备制造商。我们为客户提供全系列破碎筛分设备,包括 液压圆锥破碎机、颞式破碎机、反击式破碎机、立式冲击破碎机(制砂机)、移动式破碎站和振动筛,我们不仅为客户提供高性价比的产品,还提供一流的服务支持及解决方案。



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**郑州一帆机械设备有限公司**

ZHENGZHOU YIFAN MACHINERY CO.,LTD

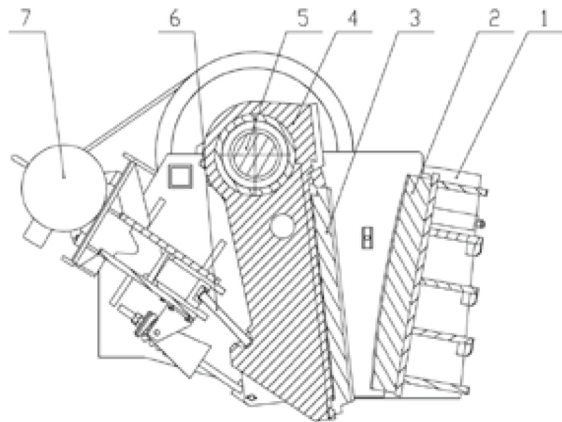
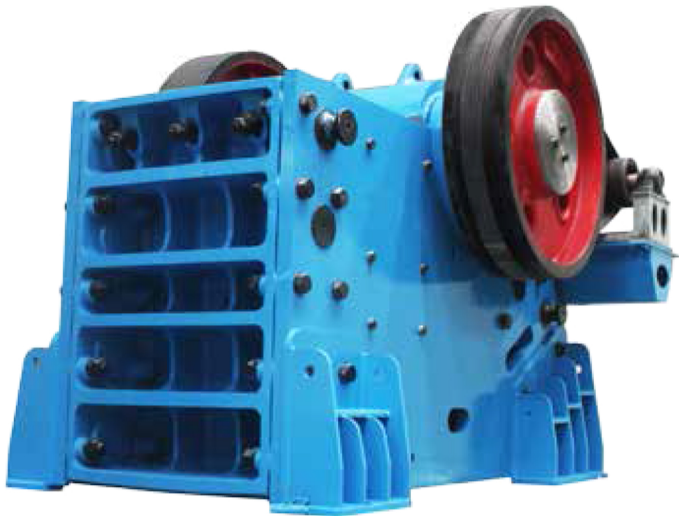
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CJ系列颚式破碎机

# CJ Series Jaw Crusher



- 1、机架 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、肘板 Toggle
- 7、电机 Motor

CJ系列颚式破碎机是引进国际最先进的破碎技术和研究成果，在一帆万台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，CJ系列颚式破碎机在设计 and 制造方面对细节更为重视，采用高强度材料，先进的制造工艺，具有结构强度更高，设备可靠性更高，破碎比更大.产量更高，综合成本更低等优势。

CJ series Jaw Crusher owns world's advanced crushing technology. It applies finite element analysis and successfully developed on the basis of 10,000 YIFAN jaw crusher design and building experience.

Compared with traditional jaw crusher, CJ series jaw crusher has higher strength and reliability,bigger crushing ratio as well as Lower overall cost.

技术参数 Technical Data

型号 Model	最大进料边长 Max Feed Edge(mm)	排料口调整范围 Discharge Range Opening(mm)	生产能力 Capacity(t/h)	电机功率 Motor Power(kw)	重量（不含电机） Weight(t)
CJ2031	425	40-150	50-200	55-75	7.95
CJ2440	500	60-175	85-300	75-90	15.6
CJ3040	640	70-200	120-490	90-110	23.2
CJ3343	680	100-225	160-510	110-160	33.7
CJ3749	800	110-250	260-810	132-160	49.3
CJ4255	850	125-250	360-920	160-200	56.5
CJ4763	1000	150-350	500-1250	220-250	90.3
CJ5971	1250	160-380	700-1500	335-400	125

**注：** 上述生产能力是在破碎中硬及以下物料且堆积密度为1.6×10<sup>3</sup>kg/m<sup>3</sup>时开路循环生产中的总吨数。生产能力与破碎物料的物料性能、给料方式、进料粒度及其组成有关。

**Note:** The capacity is total tons per hour passing through crusher at open circuit when crushing medium and below hardness material and bulk density with 1.6x10<sup>3</sup>kg/m<sup>3</sup>. Capacities are relative to physical character and type of feeding, feeding size and composition and so on.

# CJ系列颚式破碎机主要特点:

## 1.坚固的结构

机架分为焊接式和组装式两种:中小型规格一般采用焊接式,大型规格一般采用组装式。

焊接式采用大弧度过渡圆角.低应力区焊接方式,大大降低了应力集中,保证了机架在各方向强度的均等,具有耐冲击性.受力均匀.低故障率等特点。

组装式采用先进的模块化.无焊接框架结构设计,疲劳强度大,可靠性高,同时整机组装式设计,运输.安装更加方便,特别适用于地下矿井.高海拔矿山等狭小.运输困难场所安装。

## 2.优越的腔型设计

对称“V”形腔型设计,肘板大倾角.大冲程.合理转速,使进料粒度更大.产量更高.粒度更加均匀,颚板磨损降低。

## 3.重型动颚总成经久耐用

重型动颚总成采用锻造的重型偏心轴.高质量重载滚动轴承.有限元软件优化的动颚体,保证了动颚总成耐冲击性和稳定性高;迷宫式密封.集中润滑系统保证了轴承油脂不被污染.润滑更加便捷,使其运行时间更长,更加稳定。

## 4.动颚护板设计

动颚上方安装了重型护板,避免因物料冲击,有效保护动颚体及其内部轴承不受损坏。

## 5.整体轴承座

整体铸钢轴承座结构保证与机架完全配合,避免了组合式轴承座在紧固过程中对轴承造成不必要的径向载荷,使轴承运行更加平稳。

## 6.方便快捷的粒度调节

CJ系列颚式破碎机采用机械或液压排料口调整装置,其双楔块调节方式相对应垫片调节操作更加简单.安全.快捷,节省了停机时间。

## 7.一体化电机安装

电机座与破碎机机架一体式安装方式,不仅节约了颚式破碎机的安装空间,减少了三角带的长度,而且由于机架.电机座.电机的同步运动.可调的电机座实现了三角带张力的调节,从而使三角带使用寿命更长。

## 8.减震安装设计

破碎机采用专用的橡胶减震装置固定,有效吸收了设备振动峰值,同时允许破碎机垂直和纵向方向的位移,从而降低了对基础的冲击。

## Main Features for CJ Series Jaw Crusher:

### 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.Extraordinary Cavity Design

Symmetrical V-shaped cavity design, high inclination-angle of the toggle, big stroke and reasonable speed, allows a bigger feeding size, higher capacity, uniform particle size and lower wearing of the plate.

### 3. 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.

### 4. Shield Design for the Movable Jaw

Heavy shield is installed above the movable jaw to avoid the material's impact. It can effectively protect the movable jaw and its internal bearing from damage.

### 5. Overall Bearing Support

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

### 6.Convenient Particle Size Adjustment

CJ series Jaw Crusher adopts mechanical or hydraulic adjustment for the discharge range, compared with shim adjustment, double wedge adjustment operations is simpler, more secure faster, and saves more downtime.

### 7.Integrated Motor Installation

Integrated installation of motor seat and frame can not only save installation space, reduce the length of v-belt, but also can prolong v-belt working time, since the frame, motor seat, synchronous move of motor, adjustable motor seat bring v-belt tension adjustment.

### 8.Vibration Absorption Design

Crusher fixed by rubber vibration absorption device, which can effectively absorb vibration peak, while allow the vertical and longitudinal displacement of the crusher, thus reducing the impact on the foundation.





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