

CS SERIES HIGH-EFFICIENCY CONE CRUSHER

TOP 1 BRAND OF CHINA'S CRUSHING
AND GRINDING INDUSTRY







Product Presentation

According to customer's requirement, our company designs high-performance crusher-CS series High-efficiency Cone Crusher. This crusher concentrates on the specialty of high-frequency, multiple-cavity type and optimization of stroke and bases on the advanced technology introduced abroad, follows the conception of laminated crushing principle, more crushing and less grinding. Practice show that CS series High-efficiency Cone Crusher has won the trust of customers from all over the world by its excellent performance, reliable quality and highly cost effective, which has become an ideal substitute instead of the traditional cone crusher.

Three excellent performance advantages highlight the value of Liming Brand

1.High performance, low production cost

Optimized cavity-type and reasonable combination of speeding and stroke endow the equipment with reliable performance, improved capacity and reduced production cost. The crusher applies laminated crushing principle to make larger proportion of the cubic shape of final product and reasonable graduation.

2.High reliability on operation

The adoption of main shaft with big diameter, heavy main frame ensure equipment's durability and reliability. Multiple-point control independent oil lubrication system achieve double protection on bearing lubrication. Metal passing protection device makes the auto-safeguarding come true.

3. Easy maintenance and operation

All parts can be disassembled from upper part and side, so that fixed cone and dynamic cone can be disassembled easily. Hydraulic cleaning system can clean up the crushing chamber quickly so that downtime is decreased.



Purpose and Application Scope

CS Series High-efficiency Cone Crusher is widely used to crush metallic minerals and nonmetallic minerals, cement, construction aggregate, sand and metallurgy. Mineral can be crushed are iron ore, nonferrous metal ore, granite, quartzite, dinas, river stone, etc.

Product Structure

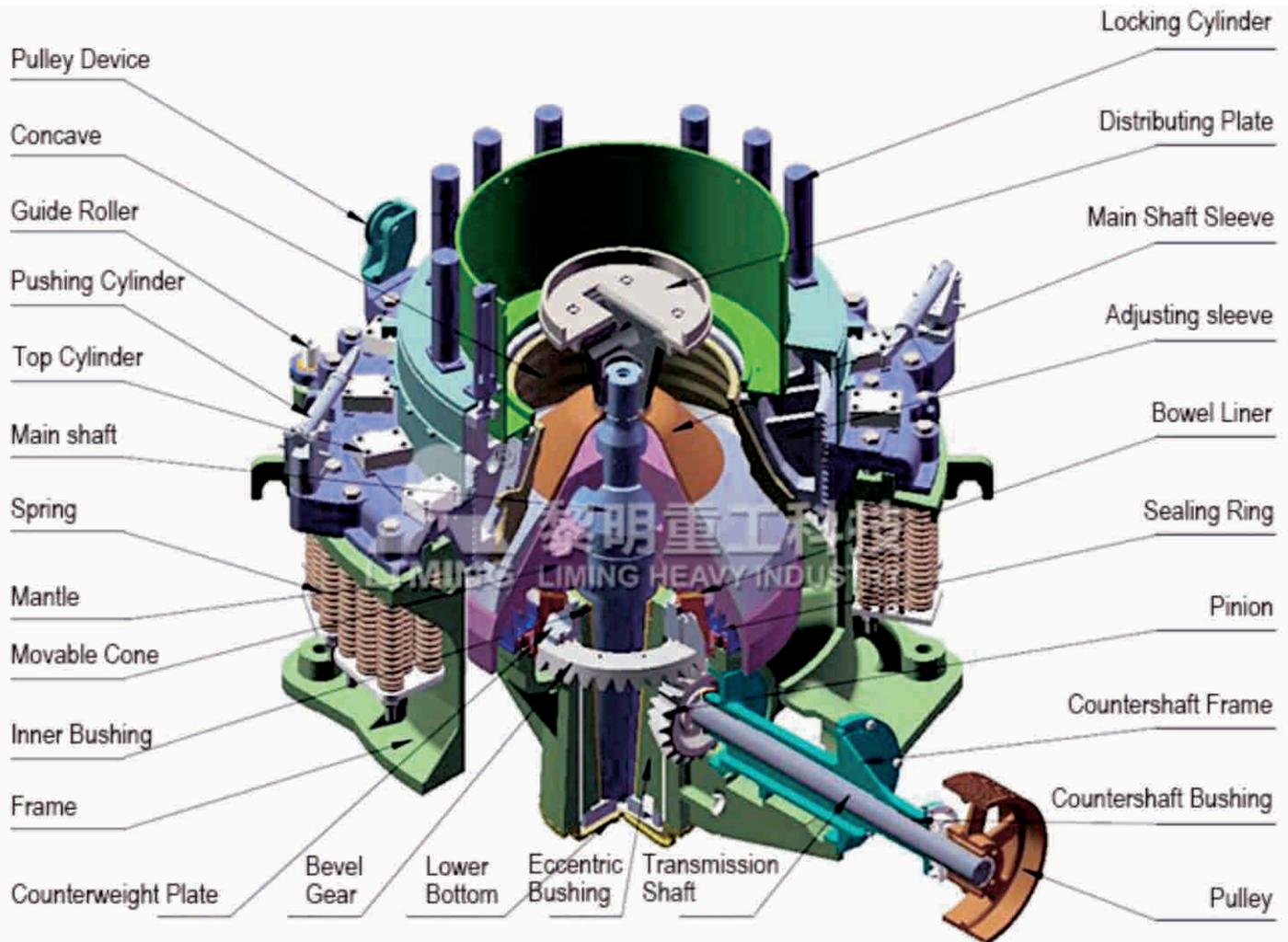


Figure 1 The Structure of the CS Cone Crusher

The CS high-efficiency cone crusher is mainly composed of six parts: the frame, the fixed cone devices, the movable cone devices, the spring, the bowel liner device and the transmission devices. And the auxiliary system mainly consists the electric system, the thin-oil lubrication system and the hydraulic system.

As shown in the figure1, the fixed cone devices mainly contains the adjusting sleeve and the concave, etc, and the movable cone devices are mainly composed of the main shaft, the movable cone and the mantle. And the transmission devices consists the pulley, the transmitting shaft, the pinion, the bevel gear and so on.



The working principle of CS series High-efficiency Cone Crusher

Through the V-belts, pulley, transmission shaft, pinion and the bevel gear, the power will be transmitted from the electrical motor to the eccentric bushing. Thus the eccentric bushing begins to rotate, which will generate the friction force to drive the main shaft rotating. Therefore, part of the mantle approaches the bowl liner to crush the material, while the other part of the mantle is a little bit far from the bowl liner, between which the crushed products of required size will be discharged from the lower part after repeating crushing, extruding and bending.



SUPERIOR PERFORMANCE

1. Larger capacity, higher performance

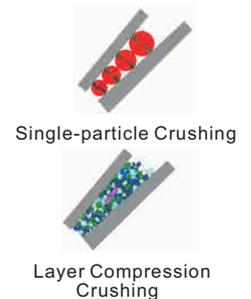
Designing of optimal chamber and applying of combination of reasonable speed and stroke make the machine do more work with the same dynamic cone diameter. Therefore, this machine has higher performance and larger capacity compared with the other same type cone crusher.

2. Stability trustworthy

When the non-crushing material like piece of iron is sent to the chamber, metal passing protection device will release it and then the machine resets automatically. The protection device has fixed discharge opening returning point and the discharge opening can return back immediately after the metal passes through the crushing chamber to protect the machine.

3. Perfect product size

Laminated crushing principle is adopted to make larger proportion of cubic shape of final products. And the acicular shape products are decreased, so the grain size is more uniform.



4. More cavity type choosing available

CS series High-efficiency Cone Crusher is characterized by maximizing the performance to apply all kinds of crushing process: from special coarse crushing to fine crushing; from fixed crushing plant to mobile crushing plant. It has different types of crushing chamber for choosing according to crushing process.



Structure Features



1. Convenient hydraulic cavity-clearing system

If the crusher stops working due to the overload, the hydraulic system will clear the cavity as soon as possible which will reduce the maintenance time .

2. Easy maintenance and operation

All the devices can be disassembled and assembled from the top or the sides, which makes it easy to dismantle the fixed cone and the movable cone.

3. Safer separate lubrication system

The multi-point controlled independent lubrication system can provide the bearings a double protection and the whole machine a automatic safety protection.

4. Reliable automatic control system

The major diameter main shaft, the heavy type frame and the independent thin-oil lubrication system ensure the crusher a stable and reliable operational performance.



Technical Parameters

CS series High-efficiency Cone Crusher (Standard)

Model	Mantle Diameter (feet)	Cavity	Feed opening(mm)		CSS min-max(mm)	Rotating Speed of Main Shaft (r/min)	Power KW (HP)	Capacity (tph)	Weight (t)	Dimensions (L×W×H) (mm)
			Closed Side (mm)	Opening Side (mm)						
CSB75	900	Fine	83	102	9-22	580	75 (100)	45-91	15	2821×1880×2164
		Coarse	159	175	13-38			59-163		
CSB160	1295	Fine	109	137	13-31	485	185 (250)	109-181	27	2800×2342×2668
		Medium	188	210	16-38			132-253		
		Coarse	216	241	19-51			172-349		
CSB240	1650	Fine	188	209	16-38	485	240 (320)	181-327	55	3911×2870×3771
		Medium	213	241	22-51			258-417		
		Coarse	241	268	25-64			299-635		
CSB400	2134	Fine	253	278	19-38	435	400 (500)	381-726	110	4613×3251×4732
		Medium	303	334	25-51			608-998		
		Coarse	334	369	31-64			789-1270		

CS series High-efficiency Cone Crusher(Short Head)

Model	Mantle Diameter (feet)	Cavity	Feed opening(mm)		CSS min-max(mm)	Rotating Speed of Main Shaft (r/min)	Power KW (HP)	Capacity (tph)	Weight (t)	Overall Dimensions (mm)
			Closed Side (mm)	Opening Side (mm)						
CSD75	914	Fine	13	41	3-13	580	75 (100)	27-90	15	2821×1880 ×2410
		Coarse	33	60	3-16			27-100		
CSD160	1295	Fine	29	64	3-16	485	160 (220)	36-163	27	2800×2342 ×2668
		Medium	54	89	6-16			82-163		
		Coarse	70	105	10-25			109-227		
CSD240	1676	Fine	35	70	5-13	485	240 (320)	90-209	55	3917×2870 ×3771
		Medium	54	89	6-19			136-281		
		Coarse	98	133	10-25			190-336		
CSD400	2134	Fine	51	105	5-16	435	400 (500)	190-408	110	4130×3251 ×4454
		Medium	95	133	10-19			354-508		
		Coarse	127	178	13-25			454-599		

Notes:

- 1.Maximum input size is as big as 80% of the opening side;
- 2.The capacity is roughly recorded (on condition of limestone);
- 3.The actual capacity will vary due to different input size, particle grade, rock type and moisture of the material;
- 4.Any change of technical data shall not be advised additionally. All sizes and arguments are subject to the crusher the customer received.

In order to enhance your experience of our equipment during the operation, we strongly recommend spare parts originally manufactured by LIMING Heavy Industry. These high quality spare parts are manufactured using advanced metallurgy techniques, precise machining, and perfect compatibility, ensuring the lowest malfunction operation and creating higher value for our customer.

Crushing Plant



Sine Liner



Spring



Toggle Plate



Guard Liner Plate



Impact Block



Wearproof Plate



Impact Plate



Tension Rod



Feed Eye Ring



Movable Jaw Plate

Grinding Plant



Ring



Roller



Shovel Base



Shovel



Gland Arove Roller Sleeve



Roller Sleeve



Roller Shaft



Classifier Impeller



Lining Plate



Air Way Guard Plate

PRODUCT LIST

Production Line

Stone Crushing Line

Sand Making Line

Industrial Grinding Line

Grinding Plant

LM Vertical Mill

MTW European Trapezium Mill

LUM Vertical Roller Mill

TGM Trapezium Mill

T130X Superfine Grinding Mill

YGM Series Suspension Mill

HGM Series Micro Powder Mill

Coarse Powder Mill

Raymond Mill

Crushing Plant

HJ Series Jaw Crusher

European Type Jaw Crusher

European Type Impact Crusher

Impact Crusher

Jaw Crusher

HPT Hydraulic Cone Crusher

HST Hydraulic Cone Crusher

CS Series Cone Crusher

Spring Cone Crusher

Sand Making& Screening Plant

VSI5X Vertical Shaft Impact Crusher

VSI Vertical Shaft Impact Crusher

PCL Vertical Shaft Impact Crusher

YKN series vibrating screen

Vibrating Screen

Sand Washing Machine

Belt Conveyer

Vibrating Feeder

Mobile Crushing Plant

Crawler Mobile Crushing Plant

Mobile Primary Jaw Crusher

Mobile Impact Crusher

Secondary Cone Crusher

Multi-Combination Mobile Crusher

Mobile VSI Crusher

Mobile Vibrating Screen

QUALIFICATION

GOST Certificate



Grinding Plant



Crushing Plant



Mobile Crushing Plant

CE Certificate



Grinding Plant



Crushing Plant



Sand Making Plant



ISO9001-2008
Quality Management
System Certification



Environmental management
system certificate



Service – With me, enjoy your pleasant journey.

Liming has the most experienced team of engineers with professional knowledge and spirit of dedication. To serve the clients more conveniently, they scattered all over the world to work all year round. From the site planning to the drawing design, from the technical training to the installation and debugging, from the whole working line that values millions to the small pinion that looks insignificant, they fully understand the influence factors of actual situation on customer business, and create successful solution to improve the production efficiency and the environmental quality for customer operating agency.

WORKSHOP



ENTERPRISE PROFILE



Henan Liming Heavy Industry Science & Technology Co., Ltd. , established in 1987, is the leading enterprise of mining machinery in China.

Liming Heavy Industry is chronically committed to the research and develop of manufacturing of large infrastructure projects, such as construction, energy, transportation, etc. and provides various technical solutions and auxiliary products. "Made in Liming" is highly praised by our cooperative partners from more than 130 countries and regions overseas, such as Russia, Kazakhstan, Azerbaijan, Turkey, Kuwait, South Africa, Egypt, Vietnam, Malaysia, India, Australia, Korea, Canada and the European Union,etc. Liming is deserved to be one of the most excellent enterprises with the most industry customers and the most widely sales level service network.

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