

CS Series Cone Crusher





Overview

For higher productivity, better reliability and flexibility, longer service life, and better final product quality, the CS series cone crusher (cs cone crusher) is absolutely your best choice.

CS series cone crusher offer several outstanding features such as unique hydraulic lifting system, high crushing force and reasonable cavity design, all of these features ensure the CS series cone crusher the unbeatable performance in secondary, tertiary and quaternary applications.

Application

CS series cone crusher is widely applied in cement making industry, building, sand making, metallurgical industry, etc. The cone crusher from China is suitable for both metallic minerals and non-metallic minerals, such as iron ore, nonferrous metal ore, granite, limestone, quartzite, sandstone, pebble, etc.



Main Features & Benefits

Based on 20 year's manufacturing experiences, absorbing technology from US and Germany, through numerous times of innovation, testing and optimization, our R&D department finally achieved this outstanding CS series cone crusher.



Advanced design:

1. Ability to produce different good-shaped particles:

With multi-chamber, it has a large range to adjust the output size, from the coarse to the fine particles. The special designed chamber shape ensures high efficiency and long service life.

3. High stability and automation:

Double oil lubrication system, enable the service life of bearings and gears, provide a good and stable inner working situation. It is Equipped with hydraulic device, providing much more convenient and easier maintenance.

4. Less and lower vibration:

Replace the coupling connection with pulley, ensure the coaxial tolerance and reduce vibration. High strength springs between the upper and below mainframe protect frame from vibration.

5. Reliable sealing system:

CS series cone crusher uses dry oil sealing system compared with the water sealing system in the old series, providing more reliable sealing, thus ensure the inner working situation and increase the service life of the machine.

6. High capacity:

Compared with other series products, CS series cone crusher has long crushing arms, long impact distances, and high crushing force. For each stroke, the distance between concave and mantle is large, which not only allows big materials into the crushing chamber, but also forms a big discharge volume and then speeds up the crushing process.

Advanced process:

1. Special designed fixtures for the important eccentric bushing manufacturing enable manufacturing precision, compared with complete manual operation in other companies.

2. Unique electrical cooling system, with good compatibility, compared with water cooling system in other companies which can be easily influenced by the environment temperature.

Well-qualified material and out purchase parts supplier:

1. The main supporting parts adopts Q235 from Bao Steel, which is the biggest and best steel enterprise in China, and also enjoy a good reputation around the world.

2. The concave and mantle adopts high manganese steel, which is with high engineering strength and high wearing feature.

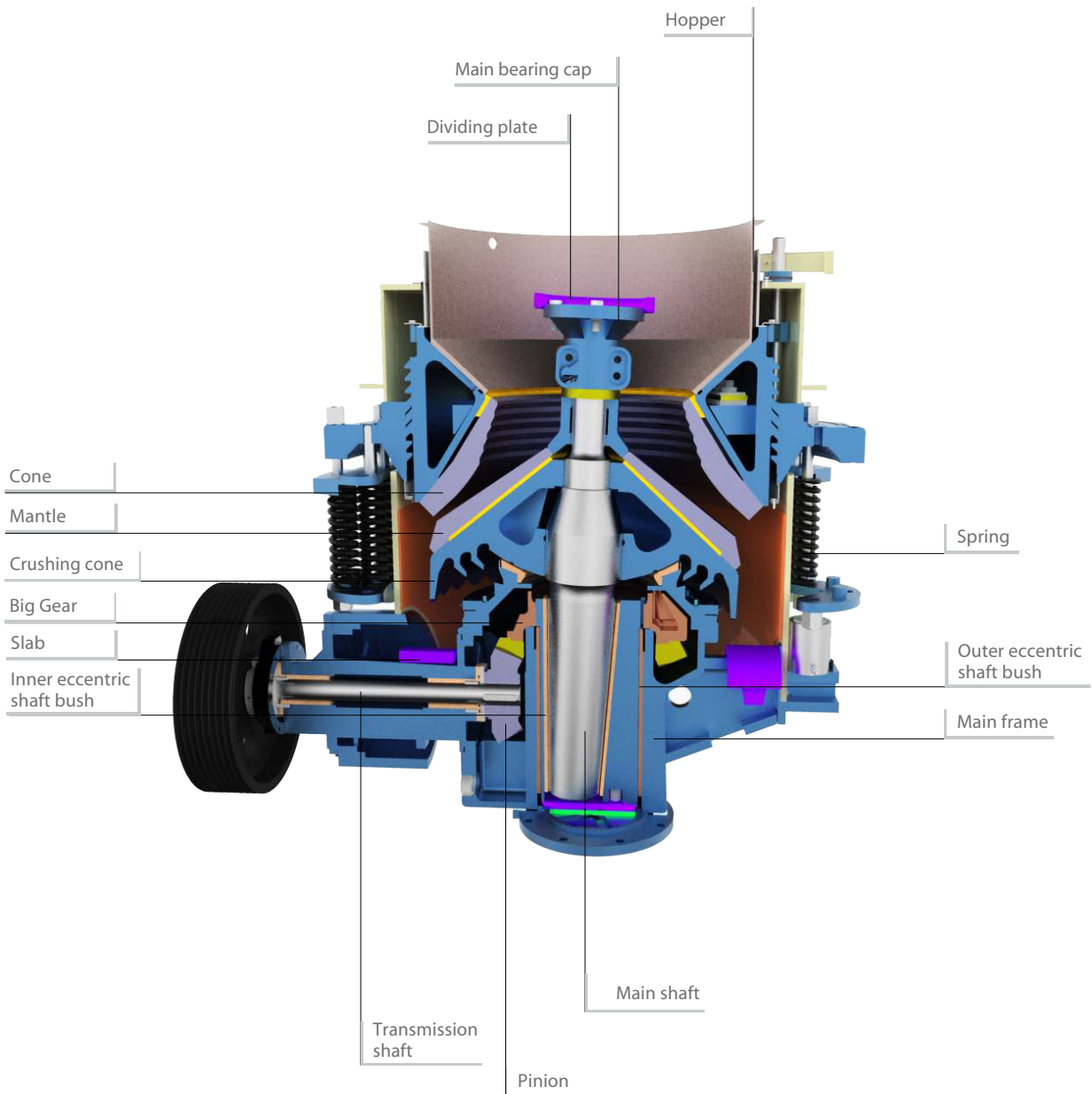
3. The main shaft adopts forged 40Cr, 35CrMo, and through tempering process, the material performance is highly improved.

4. The standard parts we use are "one of top ten fasteners in China".



Main Structure

The CS series cone crusher mainly consists of frame, transmission device, shaft, eccentric bushing, bowl-shaped bearing, concave, mantle, etc.





Working Principle

During operation, the motor drives the eccentric bushing turns through the horizontal transmission shaft and a pair of bevel gear, thus the eccentric bushing drives the main eccentric shaft turns. Then the mantle equipped on the main shaft will swing, the distance between concave and mantle will be close and far from time to time, in this way, the materials in the chamber is crushed and discharged.

Maintenance

Mantle Diameter of the CS cone crusher come in different sizes depending on desired production output rates. This size also determines the maximum diameter of input material the cone crusher can handle. Fine vs Standard Head Size This has to do with the clearance built into the mantle in terms of its distance from the liners. Fine heads have less clearance and can produce a finer output product while standard heads allow for a larger output product. Remote Adjustment in Cone Crushers Remote adjusters in cone crushers are a quite valuable feature, often adding \$100,000 to \$150,000 to the price of a unit. They allow for "on-the-fly" adjustment of the mantle/liner clearance distance. If you don't have this feature you must stop the crusher and adjust it with wrenches. Some manufacturers included this as a standard feature.



Technical Data

Standard CS Series Cone Crusher Technical Data

Type	Dia. of cone mm (inch)	Cavity	Feed opening (mm)		Discharge Setting (mm)	Capacity (t/h)	Counter Shaft (r/min)	Power (kw)	Weight (t)	Overall Dimension (mm)
			Closed Side"B"	Opening Side"B"						
CSB75	900 (3')	Fine	83	102	9-22	45-91	580	75	15	2821×1880×2164
		Coarse	109	175	13-38	59-163				
CSB110	1200 (4')	Fine	127	131	9-31	63-188	485	110	20	2821×1974×2651
		Medium	155	156	13-38	100-200				
		Coarse	178	191	19-51	141-308				
CSB160	1295 (4 1/4')	Fine	109	137	9-31	109-181	485	160	27	2800×2342×2668
		Medium	188	210	13-38	132-253				
		Coarse	215	241	19-51	172-349				
CSB240	1650 (5 1/2')	Fine	188	209	16-38	181-327	485	240	55	3911×2870×3771
		Medium	213	241	22-51	258-417				
		Coarse	241	268	25-64	299-635				
CSB315	2134 (7')	Fine	253	278	19-38	381-726	435	315	110	4613×3251×4732
		Medium	303	334	25-51	608-998				
		Coarse	334	369	31-64	789-1270				

Note: This specification is just reference, any changes are subject to the CS series cone crusher products.



Technical Data

Short Head CS Series Cone Crusher Technical Data

Type	Dia. of cone mm (inch)	Cavity	Feed opening (mm)		Discharge Setting (mm)	Capacity (t/h)	Counter Shaft (r/min)	Power (kw)	Weight (t)	Overall Dimension (mm)
			Closed Side"B"	Opening Side"B"						
CSD75	914 (3')	Fine	13	41	3-13	27-90	580	75	15	2821×1880×2410
		Coarse	33	60	3-16	27-100				
CSD110	1218 (4')	Fine	29	57	5-16	50-132	485	110	20	2560×1942×2928
		Medium	44	73	10-16	90-145				
		Coarse	56	89	13-19	141-181				
CSD160	1295 (4 1/4')	Fine	29	64	3-16	36-163	485	160	27	2800×2342×2668
		Medium	54	89	6-16	82-163				
		Coarse	70	105	10-25	109-227				
CSD240	1676 (5 1/2')	Fine	35	70	5-13	90-209	485	240	55	3917×2870×3771
		Medium	54	89	6-19	136-281				
		Coarse	98	133	10-25	190-336				
CSD315	2134 (7')	Fine	51	105	5-16	190-408	435	315	110	4130×3251×4454
		Medium	95	133	10-19	354-508				
		Coarse	127	178	13-25	454-599				

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Service

Since the establishment, Shanghai Shibang Machinery Co., Ltd has regarded "All is for clients" as its service goal and has provided high-quality, high-taste, high-efficient and all-around-way service for its clients.



1. Pre-sale services

Act as a good adviser and assistant of clients; enable them to get rich and generous returns on their investments.

- ◆ Select equipment model;
- ◆ Design and manufacture products according to clients' special requirement;
- ◆ Train technical personnel for clients;

2. Services during the sale

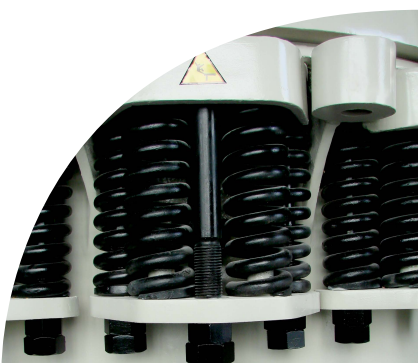
Respect clients; devote ourselves to improving the total value of clients.

- ◆ Pre-check and accept products ahead of delivery;
- ◆ Help clients to draft solving plans.

3. After-sale services

Provide considerate services to minimize clients' worries.

- ◆ Assist clients to prepare for the first construction scheme;
- ◆ Install and debug the equipment;
- ◆ Train the first-line operators on site;
- ◆ Examine the equipment regularly;
- ◆ Provide maintenance for big items.
- ◆ Provide technical exchanging;
- ◆ Provide perfect service;
- ◆ Distribute the guarantee fittings door-to-door;
- ◆ Take initiative to eliminate the troubles rapidly at site.





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Any change of technical data shall not be advised additionally.