

CS Series Cone Crusher

Features:

According to customer's requirement, our company designs high-performance crusher, CS Series High-efficiency Spring Cone Crusher.

This crusher concentrates on the speciality of high-frequency, optimization of cavity-type, reasonable stroke and bases on the advanced technology introduced abroad, follows the conception of laminated crushing principle, more crushing and less grinding.



1. High-performance

Combining optimal designing of chamber type with applying reasonable speed and stroke, to make this kind of machine does more work with the same dynamic cone diameter. Therefo, this machine is of high-performance and manufactring capacity compared with other cone crusher of the same type.

Use lminated crushing principle, to make more cubic shape materials and less needle-like materials.

2. Good products size composition

The crusher applys for laminated crushing principle to make cubic shapes of final products stand for larger proportion. Acicular and flake shape products decrease and size fraction much more well-proportioned.

3. Good stability

If there is metal or other non-broken material come to the chamber, metal going through protection device will release it and then reset automaticly. The protection device has

fixed discharge opening returning point and the original discharge opening can return immediately after the metal goes through the crushing chamber.

4. Convenient Cleaning-up

If the crusher stops under loading condition, hydraulic cleaning system can clean up the crushing chamber quickly so that decrease the downtime.

5. High reliability.

Adopting main shaft with big diameter, heavy main frame and separate automatic Control System of thin oil lubrication system, so that it guarantees robustness and reliable operation of the crusher.

6. Easy maintenance and operation

All parts can be disassembled from top and the upper side, so that fixed cone and dynamic cone can be disassembled easily.

Under high shock and vibration environment, bronze Bearing can keep excellent bearing capacity and it is much more economic and easy for maintenance.

7. Low production costs

Due for big capacity, high reliability and easy maintenance, the production costs has been reduced greatly.

8. Widespread use

The speciality of CS Series High-efficiency Spring Cone Crusher is maximizing the performance to apply to all kinds of crushing process: from special coarse crushing to fine crushing; from fixed crushing plant to mobile crushing plant.

CS Series High-efficiency Spring Cone Crusher has different types of crushing chamber for choosing according to crushing process.

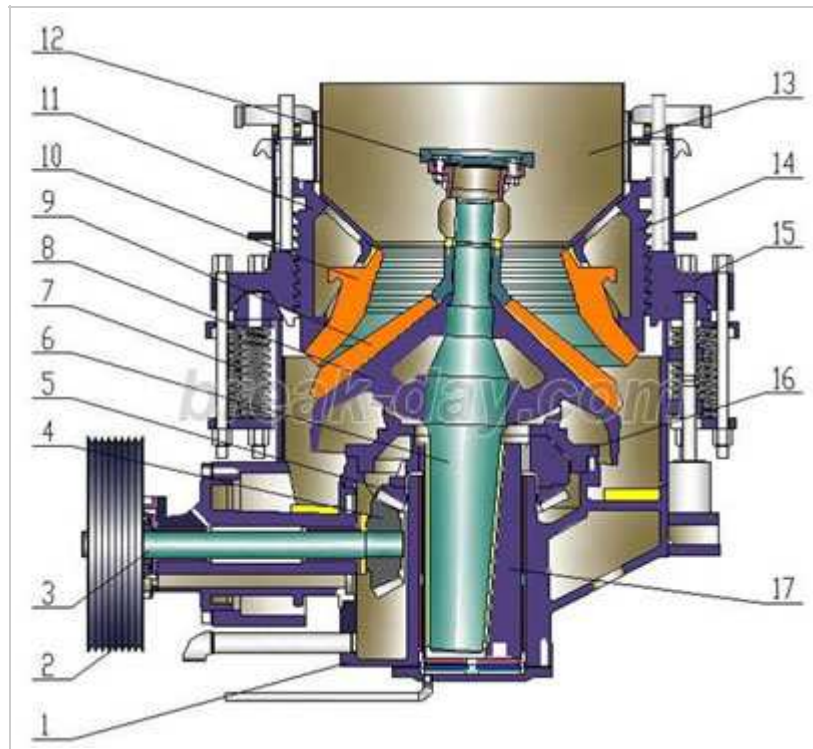
9. Separate Lubrication

Structure:

It mainly consists of frame, concaves assembly, mantle assembly, spring, bowl support, and transmission.

Auxiliary parts includes electrical system, lubrication system, and hydraulic cleaning system.

Like drawing 1, concaves assembly is composed of adjustment sleeve, concave, while mantle assembly is composed of main shaft, mantle head, mantle. Transmission part is composed of pulley, shaft, pionion and gear.



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|-----------------------|-------------|-----------------------|-----------------------|----------------|
| 1. Frame | 2. Pulley | 3. Shaft | 4. Pionion | 5. Gear |
| 6. Main shaft | 7. Spring | 8. head | 9. Mantle | 10. Concave |
| 11. Adjustment sleeve | | 12. Distributor Plate | | 13. Feed Inlet |
| 14. Adjustment ring | 15. Support | 16. Support for bowl | 17. Eccentric bushing | |

Working Principle:

Motor drives eccentric bushing to rotate via V-belts, pulley, shaft, pionion, gear. Mantle rotates with eccentric bushing, so mantle goes near and far from the concave, and crush stone into smaller size.

Main Technical Data:

Standard

Model	Dia. mm (inch)	Cavity	Feed Opening		Outlet Setting (mm)	Shaft Speed (r/min)	Power (kw)	Capacity (t/h)	Weight (t)	Dimension (mm)
			Closing Side (mm)	Open Side (mm)						
CSB75	900	Fine	83	102	9-22	580	75	45-91	15	2821×1880×2164

	(3')	Coarse	159	175	13-38			59-163		
CSB110	1200 (4')	Fine	127	131	9-31	485	110	63-188	20	2821×1974×2651
		Medium	156	156	13-38			100-200		
		Coarse	178	191	19-51			141-308		
CSB160	1295 (4 1/4')	Fine	109	137	13-31	485	160	109-181	27	2800×2342×2668
		Medium	188	210	16-38			132-253		
		Coarse	216	241	19-51			172-349		
CSB220	1650 (5 1/2')	Fine	188	209	16-38	485	220	181-327	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	435	315	381-726	110	4613×3251×4732
		Medium	303	334	25-51			608-998		
		Coarse	334	369	31-64			789-1270		

Short Head

Model	Dia. mm (inch)	Cavity	Feed Opening		Outlet Setting (mm)	Shaft Speed (r/min)	Power (kw)	Capacity (t/hour)	Weight (t)	Dimension (mm)
			Closing Side (mm)	Open Side (mm)						
CSD75	914 (3')	Fine	13	41	3-13	580	75	27-90	15	2821×1880×2410
		Coarse	33	60	3-16			27-100		
CSD110	1218 (4')	Fine	29	57	5-16	485	110	50-132	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	485	160	36-163	27	2800×2342×2668
		Medium	54	89	6-16			82-163		
		Coarse	70	105	10-25			109-227		
CSD220	1676 (5 1/2')	Fine	35	70	5-13	485	220	90-209	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	435	315	190-408	110	4130×3251×4454
		Medium	95	133	10-19			354-508		
		Coarse	127	178	13-25			454-599		

Note: the capacity is based on limestone.

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