



# LIMING HEAVY INDUSTRY

## Mining Machinery



*CS Series Cone Crusher*  
*Maximum Capacity : 1270 (t/h)*







## APPLICATION

Symons cone crushers were built for decades of reliable service. The design was as simple as possible with features that were user friendly, and craftsmen with many years of experience built the frames and components for ruggedness and durability with American steel and pride in their work. Because of this, Symons cone crushers enjoy a worldwide reputation as rugged, durable, easy to maintain, and reliable. Now there is a conversion kit to combine all the features that made them so rugged and reliable, with more modern features to increase production and automation.

## CS SERIES CONE CRUSHER





# FEATURE

## 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 manufacturing 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 returing back 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 recuded 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

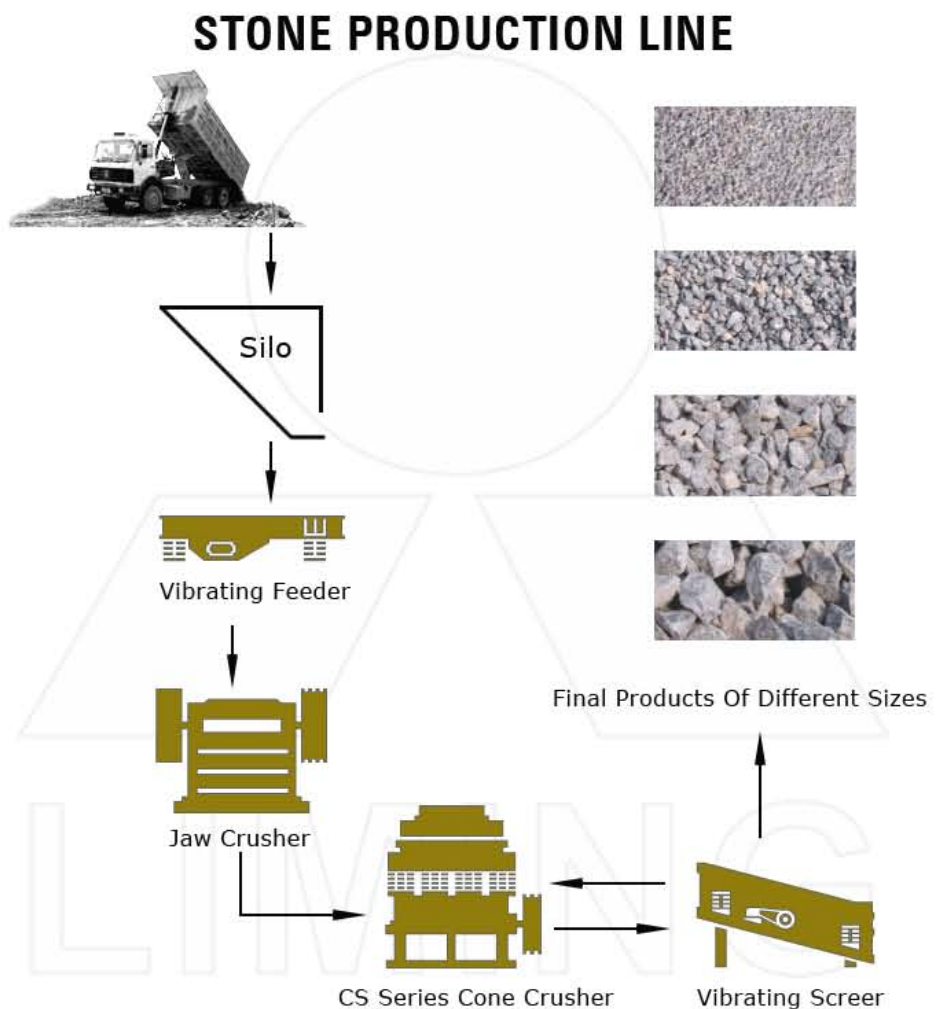


# WORKING PRINCIPLE

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 and wiggling. 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.



## CS SERIES CONE CRUSHER MAXIMUM CAPACITY: 1270 (t/h)





# TECHNICAL SPECIFICATIONS

## Standard

Model	Dia. mm (feet)	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 (3')	Fine	83	102	9-22	580	75	45-91	15	2821×1880×2164
		Coarse	159	175	13-38			59-163		
CSB160	1295 (4 1/4')	Fine	109	137	13-31	485	185	109-181	27	2800×342×2668
		Medium	188	210	16-38			132-253		
		Coarse	216	241	19-51			172-349		
CSB240	1650 (5 1/2')	Fine	188	209	16-38	485	240	181-327	55	3911×2870×71
		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	4613×251×4732
		Medium	303	334	25-51			608-998		
		Coarse	334	369	31-64			789-1270		

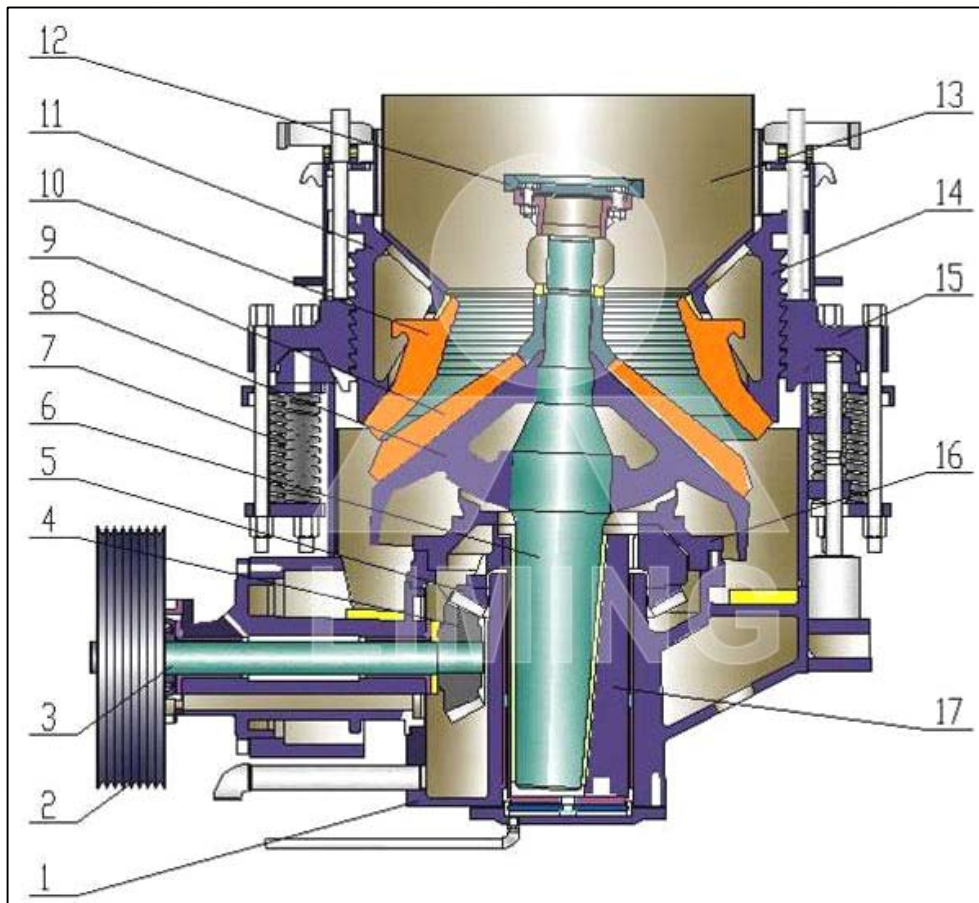
## Short Head

Model	Dia. mm (feet)	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		
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		
CSD240	1676 (5 1/2')	Fine	35	70	5-13	485	240	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.

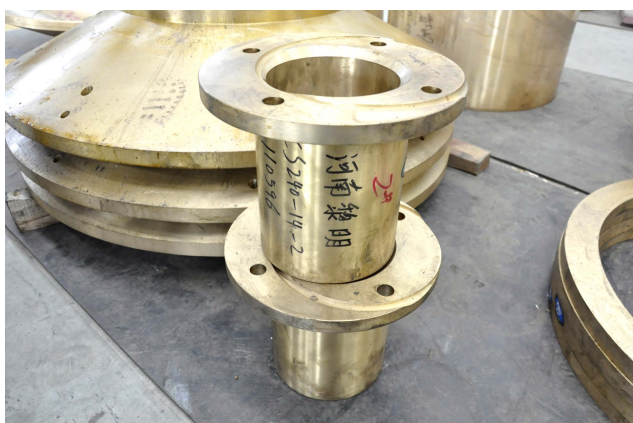
**Notice:** Any change of technical data shall not be advised additionally.

# DETAILED STRUCTURE



1. a lower cover
2. driving wheel
3. driving shaft
4. bevel gear
5. eccentric sleeve lining
6. spindle
7. insurance spring
8. conecave assembly
9. conecave liner
10. mantle liner
11. mantle
12. hammerhead
13. hopper
14. adjusting sleeve
15. support sets
16. sealing ring
17. eccentric bearing

## PARTS AND ACCESSORIES:





# SERVICE

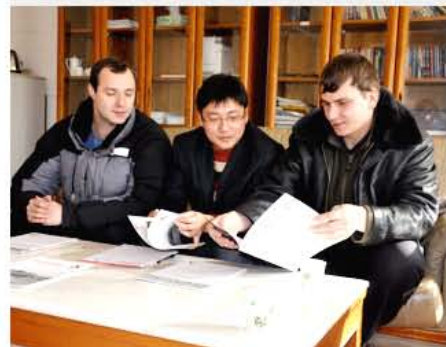
Liming service centers span the globe and are conveniently located to deliver prompt and complete service to keep your job moving forward. Our teams of technicians offer years of experience and offer services ranging from routine maintenance and accident repairs to customization and reconditioning.

We dispatch the experienced technician to guide you installation and commissioning; We dispatch the experienced technician to inspect and assess your machinery condition; We offers efficient, cost-effective repair and rebuild services for you; We offers technical support, to provide you with Process circuit evaluation.

Original spare parts is the heart of crushing & screening plant. Kefid supplies quality original parts to protect your investment and our knowledgeable product specialists help ensure you receive exactly what you need to get your equipment back on the job.



## LIMING HEAVY INDUSTRY



## TRAINING AND EDUCATION

Knowledge is power. Based in the classroom, workshop, out in the field or underground, we teach both theory and practice, infusing the relevant precautions, techniques, routines and remedies we have devised to ensure maximum safety, to save production, reducing downtime and overall, operating more efficiently.





# ABOUT US

Liming Machinery Co., Ltd. is a leading and pioneering enterprise with the most advanced international level in R&D, manufacturing and selling of large-scale crushing & screening plants and industrial milling equipments.

Located in a historic city and transportation hub in central China-Shanghai, covering 140 thousand square meters, Kefid has Shangjie and High-tech zone two production bases. Shangjie Zone which covers 80,000 square meters has three heavy-duty and modern integrated assembling workshops-- occupying 50,000 square meters; High-tech zone has 22 floors R&D Management laboratory building with 26,000 square meters, comprehensive equipments exhibition hall with 5,100 square meters, heavy-duty and modern integrated assembling workshop with 10,000 square meters, and also has the industry's most advanced machining workshop 20,000 square meters, and hundred sets of advanced large-scale vertical lathe, fixed lathe, planner, boring lathe, grinder and milling machines



## LIMING HEAVY INDUSTRY



What's more, Liming Heavy Industry has three big production plants. They are: plug welding workshop, Machining workshop, fitting workshop. Each of them occupies more than 80,000 square meters.

More than 900 workmen are working and manufacturing products which can ensure the quick supply of products of customerization.



# LIMING HEAVY INDUSTRY

## Mining machinery



*With Liming's policy of constant upgradation of products, specifications are subject to change without prior notice. Accessories shown are optional and not a part of standard supply.*



India | Algeria | Australia | Afghanistan | Bangladesh | Botswana | New Caledonia  
Dominican Republic | Dubai | Egypt | Ethiopia | Iran | Iraq | Kenya | Kosovo  
Kuwait | Libya | Malawi | Malaysia | Maldives | Mauritius | Myanmar | Nepal  
Nigeria | Oman | Pakistan | Russia | Srilanka | Sudan | Saudi Arabia | Senegal | Tahiti  
Tanzania | Trinidad & Tobago | Tunisia | Uganda | Yemen | West Indies...



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