



**LIMING HEAVY INDUSTRY**

Mining Machinery



*Hydraulic Cone Crusher*  
*Maximum Capacity : 400 (kg/h)*





## APPLICATION

Hydraulic cone crusher is developed as high-energy cone crusher by introducing German latest technology. The Hydraulic crusher does not only improve production capacity and crushing efficiency, but also expands application scope. As the latest generation product of substituting spring cone crusher and general hydraulic cone crusher in present mining and construction industry, it is the most ideal equipment for large-sized quarry and crushing of mining industry.

## HYDRAULIC CONE CRUSHER



# FEATURE

HP Series of highly efficient Hydraulic Cone Crusher has a better performance compared with spring cone crusher and ordinary Hydraulic Cone Crusher:

1. High crushing ratio and production efficiency.

—— Connection of higher turning speed and stroke makes rated power and passing capacity improved greatly and crushing ratio and capacity increased.

2. Less spare part consumption and low operation cost.

——advanced crushing principle and technical data, reliable operation and low operation cost. All parts of the crusher have anti-wearing protection, which can make the life time of spare parts increased by 30% and the maintenance cost decreased to the lowest. The crusher avoids the disadvantages of impact crusher like low average crushing ratio, large energy consumption, fast abrasion of blow bar, impact plate and lining board.

3. Between-layer pressuring crushing and better finished product shape.

——The crusher adopts between-layer pressuring crushing principle and suitable turning speed, not the traditional single particle crushing principle. The special crushing cavity can make the crusher crush materials selectively, thus the proportion of fine product and product of cubic shape is increased distinctly and product of lump size is decreased by a large extent.

4. Hydraulic protection and hydraulic cavity clearing, high automatization and less stopping production and repairing time.

—— Discharge opening is adjusted by hydraulic device and overload protection makes performance of the crusher increased by a large extent, maintenance and operation are easier, repairing time is shorter.; the bidirectional metal releasing hydraulic vat makes slab pass through crushing cavity; the crusher can discharges material automatically when the hydraulic device works under the condition of iron passing and instantaneous overloading, thus there is no trouble of stopping the crusher to discharge material by hand.

5. Thin oil lubrication makes the life time increased.

——Unique design of thin oil lubrication system prolongs life time of the crusher, high performance and not touchable labyrinth airproof part block off dust and remove common disorders like mixture of oil and water in spring cone crusher.

6. Various crushing cavity.

——It only need change fixed cone lining board and movable cone lining board; , the type of crushing cavity can be changed from standard coarse cavity to short head fine cavity, which can meet various kinds of requirements.

7. Easy maintenance and operation.

——all parts of HP series of cone crusher can be assembled, disassembled and repaired from the top and side part, including the fixed cone and movable cone. If change, no need to disassemble the crusher body and fasten the bolts. Hydraulic motor makes the performance of crusher better.

8. The crusher can provide customers larger capacity, better product shape, and easy operation.



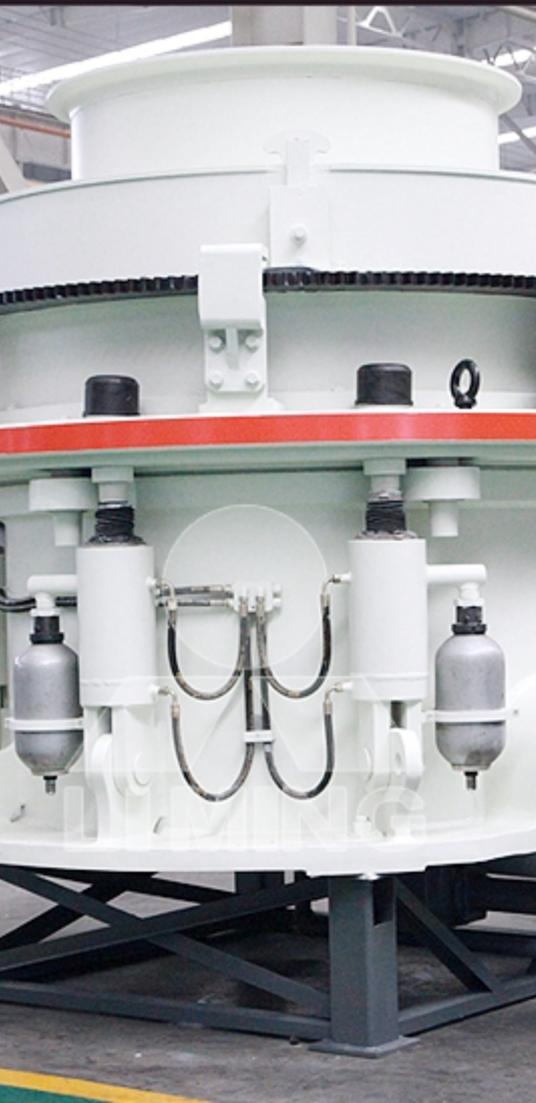
# WORKING PRINCIPLE

The crushing principle of Hydraulic Cone Crusher is finished between fixed cone plate and movable cone plate. The cone crusher's motor drives the horizontal axis of the cone crusher through triangle belt and pulley, the horizontal axis drive the eccentric shaft bush to rotate through gear transmission. The eccentric shaft drives the main shaft to make the movable cone plate swing at a regulated track from time to time, the materials are crushed due to constant pressed and crooked in the crushing cavity. The finished products are discharged from the discharging open.

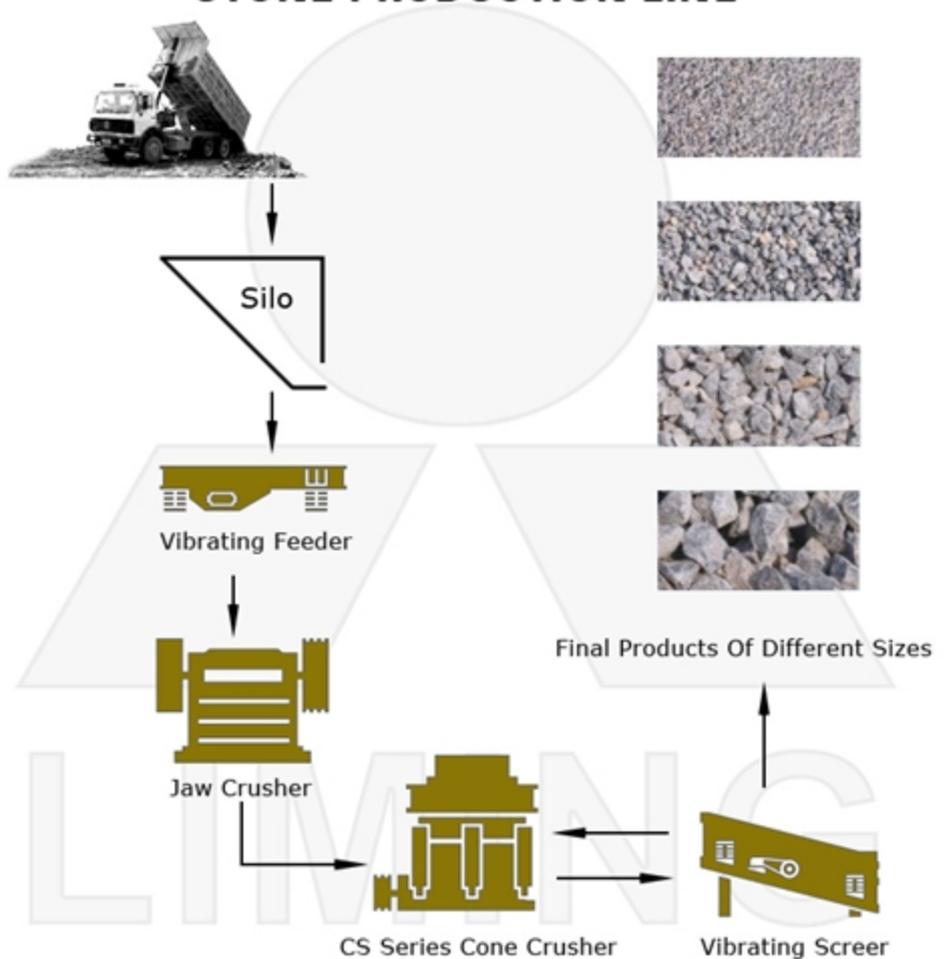


## HYDRAULIC CONE CRUSHER

**MAXIMUM CAPACITY: 400 (kg/h)**



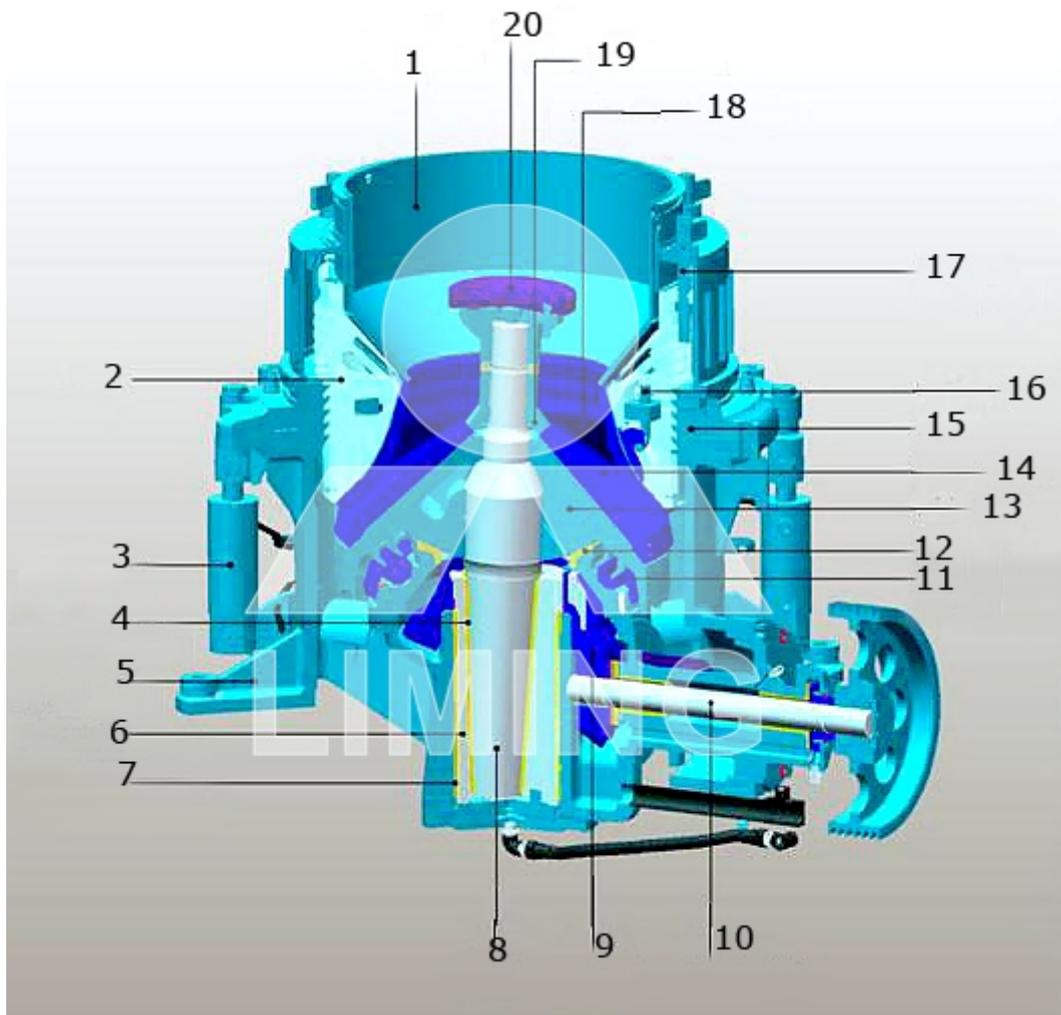
### STONE PRODUCTION LINE



Type	Cavity (coarse/fine)	Outlet adjustment range (mm)	Feed size (mm)	Capacity (t/h)	Power (kW)	Weight (t)	movable cone diameter (mm)
HPC-1 60	C	12-20	135	100-200	160	13	950
	F	5-20	76	55-150			
HPC-2 20	C	15-38	185	150-300	220	18.5	1160
	F	6-25	110	70-180			
HPC-3 15	C	19-45	265	190-400	315	26	1400
	F	9-30	150	100-200			
HPC-4 00	C	25-50	320	250-500	400	33	1500

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



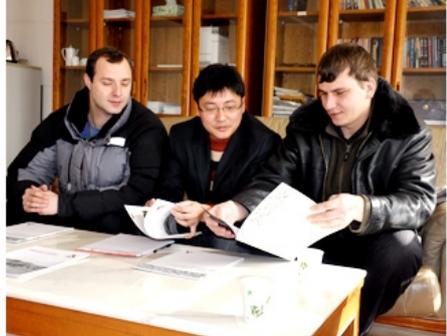


- |                      |                       |                           |                      |                     |
|----------------------|-----------------------|---------------------------|----------------------|---------------------|
| 1. Feed Bowl Hopper  | 2. Bowl               | 3. Tramp Release Assembly | 4. Eccentric Bushing | 5. Main Frame       |
| 6. Eccentric         | 7. Main Frame Bushing | 8. Main Frame Bushing     | 9. Main Shaft        | 10. Gear and Pinion |
| 11. Countershaft     | 12. Dust Seal Ring    | 13. Socket Liner          | 14. Head             | 15. Mantle          |
| 16. Adjustment Ring  | 17. U-Bolt            | 18. Adjust Bolt           | 19. Concave          | 20. Main Shaft Nut  |
| 21. distribute Plate |                       |                           |                      |                     |

# 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. Liming 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.



## 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.

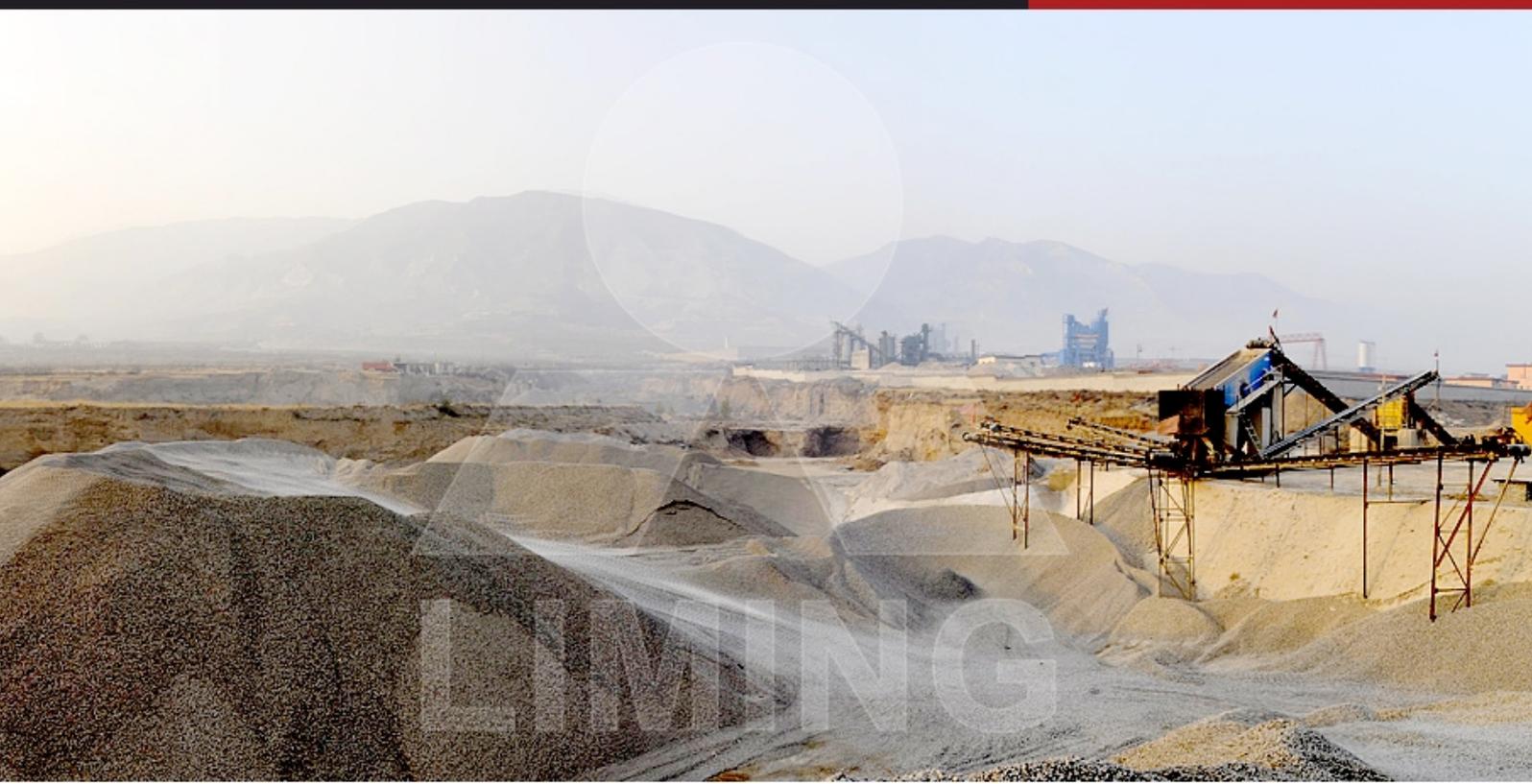
Located in a historic city and transportation hub in central China-Shanghai, covering 140 thousand square meters, Liming has Shangjie and High-tech zone two production bases. Shangjie Zone which covers 80,000 square meters has three heavy-duty and modern integrated assembling workshops-- occupying 50,000 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 supplying products of customerization.



*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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