

# Hydraulic Cone Crusher

HP Series of highly efficient Hydraulic Cone Crusher is a world-level cone crusher introduced with the up-to-the-minute technology of Germany. The cone crusher not only improves the production capacity and crushing efficiency, but also widens applying area, hardness range of materials from limestone to basalt. It has a great crushing performance in the work of medium-size crushing, fine crushing and super fine crushing. The crusher is the improved type of spring cone crusher and can be used to replace ordinary hydraulic cone crusher in the field of mining and construction. It is the most ideal equipment for large stone crushing factory and mining industry.



## Features and Technical Advantages:

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.

#### **Common problems for Hydraulic Cone Crusher:**

The performance of ordinary hydraulic cone crusher acts as the reference for the performance of HP series of cone crusher. As a composing unit of the production line, its performance can be influenced by other units like feeder, belt conveyor, vibrating screen, motor, transmission part and hopper, etc.

Pay attention to the following factors which can influence the performance of Hydraulic Cone Crusher:

1. Choose right crushing cavity according to the materials to be crushed;
2. The feeding size should be right;
3. Materials are distributed equally around the crushing cavity;
4. Automatically control system is applied;
5. Discharge opening of cone crusher works normally;
6. The model of belt conveyor depends on the max. processing ability of the crusher;
7. Choose the right screen model for advance screening and closed screening.

**Technical Data:**

Type	Cavity (coarse/fine)	Min. discharge size (mm)	Feed size (mm)	Capacity (t/h)	Power (kW)	Weight (t)	movable cone diameter (mm)
HPC-160	C	13	150	120-240	160	13	950
	F	6	76	55-180			
HPC-220	C	13	225	150-430	220	18	1160
	F	6	86	90-260			
HPC-315	C	13	290	190-610	315	26	1400
	F	6	100	108-320			
HPC-400	C	13	320	230-700	400	33	1500

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

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