

## **Cone crusher, HPC cone crusher in china**

[HPC cone crusher](#) with high-efficiency is developed by the working principle of multi-cylinders. This kind of equipment has greatly improved the production capability & crushing efficiency, and also expand the application, which has become the new latest generation products in the replacement of the mining construction and normal hydraulic cone crusher. And the machinery's pressure resistance strength is under 350Mpa. And they are widely suitable for primary crushing of many kinds of mining stones and rocks, such as many kinds of ores, concrete, fireproof materials, transportation, chemistry, etc. And now it has become the most ideal equipment in large stone materials and mining crushing area with the advantages of reliable structure, high-efficient production, convenient adjustment, economic operation and so on. The crushing cavity type is decided by the ores' usage, so the standard is suitable for the mid crushing; the mid cone crusher is suitable for fine crushing; while the short head is suitable for the super thin crushing.



### **Main Structure of HPC cone crusher**

With the perfect combination between the high-efficient crushing cavity and high crushing frequency, its hydraulic crushing capacity has improved a lot with its products appears cubic shape. With the simple structure, convenient operation and maintenance, HPC cone crusher is very easy to change, thus reducing the off-time.

### **Working Principle of HPC cone crusher**

During the working process, the eccentric shaft will force the motor to make a swing movement at a fixed point by the conveyor, counter shaft, couplings, and the cone parts, which can make the crushing cavity close or leave the rolling shirkable now and then. And the ores will be crushed by shock, crack and warp. And HPC cone crushers spring secure system is a kind of overloaded protection equipment, which can let the non-metal materials pass the crushing cavity with no harm to the machine. Adoption of the glycerol or water seal forms can separate the stone powder and lubricating oil, which ensure the reliable work. The spring secure system will take effects and the discharge opening will become largest so that the foreign bodies can be discharged from the discharge opening when the non-crushed materials can not pass the crushing cavity or the overloaded phenomenon has happened on the machine. If the foreign bodies get stuck in the cavity, we can continue to increase the discharge opening and let them pass the cavity. Due to the spring, the discharge opening will recover and go back to the normal work.

### **Technical Features of HPC cone crusher**

1 The new series of HPC cone crusher with high-efficiency and hydraulic pressure equipment adopts three kinds of protecting equipments, such as secure oilcan, locking oilcan and hydraulic driving oilcan. They not only protect the machinery, but also could deal with troubles without splitting the parts.

2 The equipment can also adjust the size of final material,with high reliable and convenient operation.

3 With the adoption of the special crushing cavity with the principle of the particle layer crushing and the proper rotating speed ,HPC cone crusher has replaced the traditional single particle crushing and realized the optional crushing ,which significantly increase the volume of the fine products with cubic shape .These have significantly increased the efficiency.

4 HPC cone crusher can lift the cover and discharge the materials automatically when there has more iron and no ventilation instantly in the machine ,which significantly reduce the trouble that the traditional crusher needs to stop working to let the man labour feed out the materials.

5 HPC cone crusher is adjusted by hydraulic device and lubricated by the dilute oil. And wit locking sleeve assembly, HPC cone crusher can overcome the trouble that the oil and water will be mixed together. 6.The concave and mantle are made by high manganese steel. Owing to the change of the concave's style and the protect of the crushed products, The abrasion of the machine is reduced greatly and can last longer compared wit the old cone crusher.

### **Products Advantages of HPC cone crusher**

HPC cone crusher wit high-efficiency produced by Shanghai Shibang Group features long service life ,three kinds of hydraulic secure devices,which have greatly improved the crushing ratio and output.HPC cone crusher simple structure, reliable operation, low cost, convenient maintenance, light lubrication ,HPC cone crusher has been exported abroad and win HPC cone crushers own internatioanl welcome and popularHPC cone crushery.

### **Technical Parameter of HPC cone crusher**

Model	Cavity (coarse/fine)	Discharge setting min.(mm)	Feed opening(mm)	Capacity(t/h)	Power(kw)	Werght(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

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