

## HPC series cone crusher

### Introduction to the HPC series cone crusher

HPC series [cone crusher](#) adopt better crushing frequency and eccentric distance ,which can make a higher fine particles ratio.And the particles discharging size less than the closed line can reach 80%,which can prominently improve the following process capability and reduce the comprehensive consumption.And now the **HPC series cone crusher** has become the latest production to replace the **spring cone crusher** and the normal **hydraulic cone crusher** and also have become the most ideal equipment in the large-size stone materials and mine crushing.



### Technical features of HPC series cone crusher

1. **HPC series 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.
2. With the adoption of the special crushing cavity , the principle of the particle layer crushing and the proper rotating speed ,. **HPC series 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.
3. 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 **HPC series cone crusher** is reduced greatly and can last longer compared with the old cone crusher.

4. **HPC series cone crusher** is adjusted by hydraulic device and lubricated by the dilute oil. And with locking sleeve assembly, [HPC series cone crusher](#) can overcome the trouble that the oil and water will be mixed together.

## Application of HPC series cone crusher

Based on the world advanced crushing technology, we company have produced this kind of advanced **HPC series cone crusher**, which have been widely applied in the metallurgy, construction, utilities, transportation, chemicals, building materials industry. And the **HPC series cone crusher** is also suitable for various ores and rocks of over medium hardness.

## Working principle of HPC series cone crusher

During the operation of **HPC series cone crusher**, the motor drives a horizontal axle by the triangle belt and belt pulley. While the horizontal axle will drive the eccentric bearing bushing by a pair of bevel gear. The axle of moveable bevel swings with the force of eccentric shaft shell, which makes it move in a regulated way between the concaves and the mantle. And then the materials will be continuously pressed and crooked and crushed. At last, the final products will be discharged from the discharging opening. And that's the complete crushing process the **cone crusher** have.

## Main technical parameters of HPC series cone crusher

cone crusher

Model	Cavity (coarse/fine)	Discharge setting min.(mm)	Feed opening(mm)	Capacity(t/h)	Power(kw)	Height(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	200	190-610	315	26	1400
	F	6	100	108-320			
HPC-400	C	13	320	230-700	400	33	1500
	F	6	110	145-430			

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