

HPC Hydraulic Cone Crusher

一、 Usage and Application

HPC hydraulic cone crusher is a high-performance model which uses German high-end technology and combines with Chinese good metal material appearance. It is widely used for secondary and fine crushing in fields of mining, metallurgy, building, chemical, ceramic, highway and bridge construction, etc. It can crush materials with middle and high hardness, such as granite, basalt, cobblestone, gold ore, iron ore, manganese ore, copper ore, quartz, wollastonite, andesite, diabase, bauxite, steel slag, water slag, etc. It is popular to the high automatic crushing line which has strict requirements for finished products' shape and ratio.

二、 Working Principle

Movable cone of crusher swings by force of eccentric bushing which makes material between mantle and bowl liner squeezed and rolled. Material is crushed under strength from different directions, finally it would form stable stone shape. End product which meets the requirement would fall from swing gap, other material would be crushed again until it meets requirement.

三、 Features

1. The crushing cavity is special designed according to particles-layer-pressure principle, together with matched rotation speeds, they reduce content of needle and flake stones , increase content of cubic shape stones. This makes its design much more reasonable and improves crushing ratio in a high level.
2. With hydraulic protection and hydraulic cavity cleaning, the machine is high-automatic . If something abnormal happens, such as iron is fed into the crushing cavity or there is a jam in the cavity, the machine will lift up the cover and discharge the materials automatically. This eliminates trouble of stopping machine to discharge material by workers, save time for stop and improve clearly the working efficiency.
3. It upgrades traditional cone crusher structure, applies for fixing main shaft, small spherical bearing, etc which improves clearly crushing efficiency. The combination of crushing stroke, crushing speed and upgraded crushing cavity increases hydraulic cone crushing capacity in a big way.
4. It is adjusted by hydraulic device and lubricated by diluted oil. Control the hydraulic

lubrication by multipoint fission which makes its working performance quite stable and reliable, protects bearing lubrication from overloading and double protect.

四、Main Specifications

Item Model	Cavity Type	Max Feeding Size (mm)	Minimum Output Size (mm)	Capacity (t/h)	Motor Power (kw)	Weight (t)
HPC200	F (Fine)	95	13	120-200	160	13.4
	M (Medium)	120	16	140-220		
	C (Coarse)	190	19	150-250		
HPC300	F (Extra Fine)	80	10	100-240	250	18.1
	F (Fine)	105	13	110-260		
	M (Medium)	150	16	175-320		
	C (Coarse)	210	20	190-380		
	EC (Extra Coarse)	230	25	220-440		
HPC400	F (Fine)	110	14	185-345	315	26
	M (Medium)	196	20	255-430		
	C (Coarse)	251	25	295-560		
	EC (Extra Coarse)	295	30	325-630		
HPC500	F (Extra Fine)	95	13	200-430	400	37
	F (Fine)	135	16	280-455		
	M (Medium)	210	22	345-605		
	C (Coarse)	290	30	405-790		
	EC (Extra Coarse)	330	38	445-855		

Note: Any change of technical data will not inform additionally.