

HPC Hydraulic cone crusher machine

HPC hydraulic cone crusher machine brief introduction:

SBM hydraulic cone crusher (sales code: HPC) is a world-class cone crusher developed from the latest technology of German. The HPC cone crushers not only improve the productivity and crushing efficiency, but also broaden the application area, the hardness of materials range from limestone to basalt. It has a one and only crushing performance in the realm of medium-size crushing, fine crushing and super fine crushing. The HPC cone crusher is the improved type of spring cone crusher and can be used to replace ordinary hydraulic pressure cone crusher in the line of mining and construction. It is the most ideal crusher equipment for large stone crushing factory and mining industry.

HPC hydraulic cone crusher machine is suitable for:

SBM HPC series hydraulic cone crusher with high efficiency is suitable for primary crushing of many kinds of mining and rock whose compression strength not higher than 360Mpa, such as ore, concrete, fireproof material, alumyite, quartzite, corundum, perlite, ironstone, basalt etc.

SBM HPC series hydraulic cone crusher is widely used in mining and construction, concrete factory, sandstone making industry.

HPC hydraulic cone crusher features and benefits:

- 1) High crushing ratio with high efficiency.
SBM HPC cone crusher machine introduces "eccentric bushing circum fixed shaft" special working principle, and strengthen the main shaft, which is possible to realize crushing with larger power. Crushing cavity of the HPC cone crusher adopts layer pressure theory and the matching speed will sharply increase the crushing ratio, output, so does the cubic product percentage.
- 2) Double insurance hydraulic governing system
SBM HPC series hydraulic cone crusher machine equipped with insurance cylinder, lock cylinder, lock oil cylinder. They not only protect the machinery but can deal with troubles without disassembly the machine parts. So the maintenance is easier than spring cone crusher.
- 3) New gearing adjusting system
SBM HPC series cone crusher adopts newly hydraulic driving system and function of self lock & wide adjustment.
- 4) Grease seal and effective labyrinth seal
SBM HPC cone crusher is adjusted by hydraulic device and lubricated by the dilute oil, which is helpful to avoid water jam, and radically eliminate the defect of water and oil in the traditional spring cone crusher.
- 5) Hadfield's manganese steel is used in mantle and bowl.
Owing to the change of the crushing cavity and the protection of the crushed products, the abrasion decreases, and the service time is 30%-80% longer than traditional cone crusher.

HPC hydraulic cone crusher working principle:???

During operation, the motor drives the eccentric shaft shell to turn around through a horizontal axle and a pair of bevel gear. The axle of crushing cone swings with the force of eccentric shaft shell so that the surface of the crushing wall is close to the roll mortar wall from time to time. In this way, the ores and rocks will be pressed and crooked and crushed.

HPC hydraulic cone crusher structure:

Cone crusher consist of frame, transmission device, hollow eccentric shaft, bowl-shaped bearing, crushing cone, springs and hydraulic pressure station for adjusting discharge opening.

Common problems for Hydraulic pressure cone crusher:

The performance of ordinary hydraulic pressure cone crusher can acts as the reference for the performance of HP series 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.

Take care of the following factors which can influence the performance of hydraulic pressure cone crusher:

1. choose the right crushing cavity according to the materials be crushed;
2. the feeding size should be right;
3. materials distributed equally around the round of crushing cavity;
4. automatically control system;
5. discharge opening of cone crusher works normally;
6. the model of belt conveyor be seasoned with the max processing ability of the crusher;
7. Choose the right screen model for advance screening and closed screening.

The following character can decrease the capacity of Hydraulic Pressure:

1. the fine particle with size less than that of feeding hole surpass the max capacity of the crusher by the extent of 10%;
2. Sticky materials mixed in the feeding;
3. No feeding control;
4. Materials allocated improperly around the crushing cavity;
5. The recommended power not used;
6. Screening capacity not enough;
7. Discharge opening now works normally;
8. Materials too hard or too elastic.

HPC hydraulic cone crusher specification:

Model	Cavity(coarse/fine)	Discharge setting min.(mm)	Capacity(t/h)	Motor Power(kW)	Movable cone diameter(mm)	Weight(t)
HPC-16	425	50-100	45-80	55	500×750	10.1

0	425	50-100	45-80	55	500×750	10.1
HPC-22	500	65-160	70-120	55-75	6000×900	15.5
0	630	80-140	130-260	110	750×1060	28
HPC-31	750	95-165	220-380	110-132	900×1200	50
5	850	195-265	230-380	132	1000×1200	57
HPC-40	1020	150-300	400-800	160-220	1200×1500	100.9
0	250	25-105	20-90	55-75	300×1300	11

HPC hydraulic cone crusher image:



Contact E-mail: sbmglobal@gmail.com

Address:

No.416 Jianye Road, South Jinqiao Area, Pudong New Area
Shanghai, China

Zip:

201201

Sales Hotline:

INTERNATIONAL TRADE DEPT.1: Tel: 0086-21-58383022 Fax:0086-21-58383058
INTERNATIONAL TRADE DEPT.2: Tel: 0086-21-58383058 Fax:0086-21-58383058
INTERNATIONAL TRADE DEPT.3: Tel: 0086-21-58383003 Fax:0086-21-58383058
INTERNATIONAL TRADE DEPT.4: Tel: 0086-21-58383098 Fax:0086-21-58383058