**HPT Series High-Efficiency Hydraulic Cone Crusher**

1. **Product Description**

**HPT Series High-Efficiency Hydraulic Cone Crusher applications**

HPT Series High-Efficiency Hydraulic Cone Crusheris a world-level cone crusher introduced the up-to-the-minute technology of Germany. It has a great crushing performance in the work of medium-size crushing, fine crushing and super fine crushing. It can be used to replace ordinary hydraulic cone crusher in the field of mining and construction. 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.

（备用方案HPT Series High-Efficiency Hydraulic Cone Crusher is widely used in metallurgical, construction, cement, building material industry, suitable for crushing many kinds of rocks with Mohs hardness below 5-16, such as iron ore, non-ferrous metal ore, granite, limestone, quartz, sand stone, cobble stone and so on. 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.）

**HPT Series High-Efficiency Hydraulic Cone Crusher advantages**

1. High crushing ratio and production efficiency.

2. Less spare part consumption and low operation cost.

3. Between-layer pressuring crushing and better finished product shape.

4. Hydraulic protection and hydraulic cavity clearing, high automatization and less stopping production and repairing time.

5. Thin oil lubrication makes the life time increased.

6. Various crushing cavity.

7. Easy maintenance and operation.

8. The crusher can provide customers larger capacity, better product shape, and easy operation.

（备用方案1. Higher capacity and less wear costs.

2. Wide range of application suitability.

3. Easy to maintain, reduce the downtime and maintenance costs.

4. Stable running performance and easy operation.

5.Double safety control of hydraulic and lubricating system protects the hydraulic cone crusher from overload, and lubricates bearings better.

6.Scientific design of crushing chamber and laminated crushing principle improve the cube proportion in end product and reduce the needle flake type stone. The particle size becomes more uniform.

**HPT Series High-Efficiency Hydraulic Cone Crusher working principle**

Under the leading role of eccentric sleeve, the movable cone of the HPT Series high-efficiency hydraulic cone crusher does rotary and pendulum movement which drives the broken walls squeeze and twist the raw material between the rolling ace tabular wall and it. According to laminated theory, the raw material is crushed and polished following their own texture by the force from different directions. Aggregate are produced finally.

（备用方案HPT Series High-Efficiency Hydraulic Cone Crusher consists of frame, transmission device, hollow eccentric shaft, bowl-shaped bearing, crushing cone, springs and hydraulic pressure station for adjusting discharge opening. 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.）

**HPT Series High-Efficiency Hydraulic Cone Crusher Specifications**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Type | Cavity (coarse/fine) | Close Side feed opening(mm) | Min CSS (mm) | Capacity (tPh) | Power KW(HP) |
| HPT200 | C2 (Corse) | 190 | 19 | 160-250 | 160(220) |
| M (Medium) | 120 | 16 | 140-220 |
| F1 (Fine) | 95 | 13 | 120-20 |
| HPT300 | C1 Extra Coarse | 230 | 25 | 220-440 | 250(350) |
| C2 Coarse | 210 | 20 | 190-380 |
| M Medium | 150 | 16 | 175-320 |
| F1 Fine | 105 | 13 | 110-260 |
| F2 Extra Fine | 80 | 10 | 100-240 |
| HPT400 | C1 Extra Coarse | 295 | 30 | 325-430 | 315(400) |
| C2 Coarse | 251 | 25 | 295-370 |
| M Medium | 196 | 20 | 255-320 |
| F1 Fine | 110 | 14 | 185-230 |
| HPT500 | C1 Extra Coarse | 330 | 38 | 425-790 | 400(500) |
| C2 Coarse | 290 | 30 | 380-700 |
| M Medium | 210 | 22 | 330-605 |
| F1 Fine | 130 | 16 | 270-535 |
| F2 Extra Fine | 95 | 13 | 200-430 |

**二、Crushing project case**

**100TPH feldspar crushing line in Jambi, Indonesia**

The 100TPH stone crushing line for feldspar runs stable with few breakdowns. The finished products are well distributed, meeting customer’s needs of making ceramics and floor tile.

**The configuration of 100TPH feldspar crushing line in Indonesia**

**Equipment:** Vibrating feeder GZD 960X3800, jaw crusher PE600X900, 4 sets secondary jaw crusher PEW250X1200, 2 sets cone crushers HPT220(F), Vibrating feeder GZD100-4(L), 3 sets vibrating screen 2YZS1860, 2 sets cone crusher HPT300(F), roller crusher 2PG0608

**Using Time:** since March 2015 **Processed Material:** feldspar

**Final products size:** 0-5mm **Capacity:** 100tph

**Place of use:** Jambi, Indonesia **Applications:** Used for ceramics and floor tile