

# HCS90 Type Cone Crusher

## Introduction

Based on US technology and the combination of China's metal materials performance, we company have developed this kind of [HCS90 Type Cone Crusher](#), which has achieved the requirements of developing countries.HCS90 Type Cone Crusher is a kind of cone crusher series and the common one is the spring cone crusher.



HCS90 Type Cone Crusher has found its extensive application in the field of Metal mine, metallurgical industry, chemical industry, construction industry, cement industry and gravel industry. And HCS90 Type Cone Crusher can be used as secondary and tertiary crushing to process materials such as Iron ore, nonferrous metal ores, granite, limestone, quartzite, sandstone, pebble and so on.

## Structure features of HCS90 Type [Cone Crusher](#)

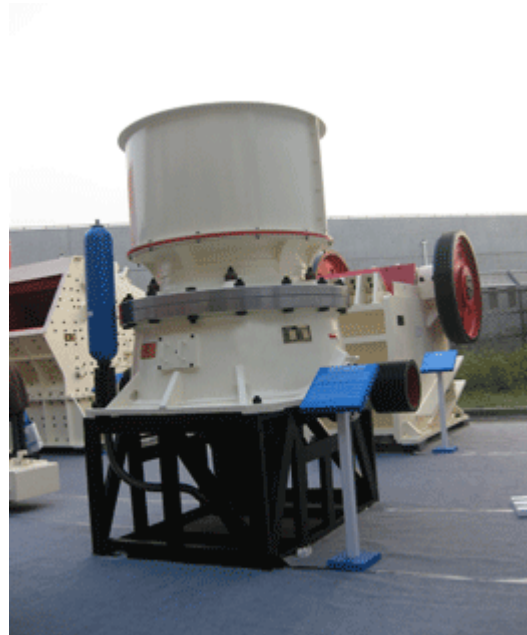
1. During the continuous rotation of the hammer, the materials' crushing and

discharging process will happen alternately on the working surface.

2 . High production capability: perfect combination design among the crushing stroke ,crushing speed, and the crushing cavity shape have made its production output improve by 35%-60% than the traditional cone crusher under the same top diameter.

3 . High-quality: The final products feature even size, and cubic shape .And the flexible cone wears evenly relatively.

4 . The adoption of dry oil and water, prevents the dust from entering the machine body .This two kinds of



sealing ensures the cleaning of the lubrication boiled oil and extends the service life of the slide bearing, which ensures that the machine can obtain a smooth function.

5 . Double secure control hydraulic and lubrication system have ensured the overloaded protection and better bearing lubrication .

Easy maintenance: HCS90 Type Cone Crusher features simple structure and convenient maintenance.

### **Main structures of HCS90 Type Cone Crusher**

HCS90 Type Cone Crusher have four kinds of crushing cavities : A type for the medium crushing ,B type for the medium and fine crushing, C type for the fine

crushing and D for the super thin crushing. And our customers can choose according to the requirement.

Main structures of the HCS90 Type Cone Crusher are including feeding hopper, upframe, flexible cone ,frame seat ,discharge hopper ,transmitting shaft , triangle belt, motor and the auxiliary equipment is including the hydraulic lubrication plant and the electric control cabinet ,etc.

### **Working principle of [HCS90 Type Cone Crusher](#)**

Driven by the electric-motor, the eccentric shaft bush will rotate with the triangle belt, transmission shaft .Driven by the eccentric shaft bush, the flexible cone will make the swing movement, which makes the fixed and flexible cone close or leave with each other from time to time .And then the materials will be crushed by continuously compacting, striking, and crooking in the circle crushing cavity. After several times' repeating, the materials will be crushed to the required size and then they will be discharged by the discharging opening.

### **Hcs90 series cone crusher technical data:**

#### 1. technology parameter

Feeding widden (mm)	135 (100、 80、 50) four types
Max feeding widden (mm)	110 (80、 65、 40)
Discharging range (mm)	6-28
Power (Kw)	(75~110)
Max permitting dimension (mm)	<40
Overall dimension length×widden×hight (mm)	2581×1550×3276
weight (t)	9.5

#### 2. lubricate pressure system parameter

Oil motor power (Kw)	1.5
Oil motor pressure (MPa)	16
Oil box cubage (L)	100

### 3. hyranlic pressure system parameter

Oil motor power (Kw)	2.2
Oil motor pressure (MPa)	1.0
Oil box cubag (L)	800

### 4. capacity

#### ①Model A crushing cavity

discharge (mm)	16	18	22	28
production (t/h)	65-75	70-85	85-105	110-130

#### ②Model B crushing cavity

discharge (mm)	11	13	16	20
production (t/h)	45-55	55-65	65-75	80-100

#### ③Model C crushing cavity

discharge (mm)	9	11	13	16
production (t/h)	25-35	40-50	50-60	60-70

#### ④Model D crushing cavity

discharge (mm)	6	7	8	10
production (t/h)	20-25	25-30	30-35	35-45

If there is change of the above specification, it subjects to the newest products' specifications.

**Note:** Capacity is measured by the local quartz stone. The broken ability is affected by various factor, such as raw material hardness , humidity , size collocation , operating method , discharger size etc.

## Contact us

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