

Cone crusher, Symons Cone Crusher, Symons cone crusher in shibang

Shanghai Shibang Group brought in this kind of cone crusher from US Dberg company in 1986, which is a kind of spring secure cone crusher. And it prevails the [Symons Cone Crusher](#) on whatever the quality, even particle size, products fineness, service life of the components, operation efficiency, and products operation costs. And now it has found its extensive application in the field of metal & non-metal mines, concrete factory, construction building, and sand tone metallurgy, which can be used to crush the Iron ore, nonferrous metal ores, granite, limestone, quartzite, sandstone, pebble and so on. Based on foreign technology and customer's requirements, we company have developed this kind of modern high-performance crusher featuring high swing frequency, optimized cavity, and reasonable stroke, which is designed by the layer crushing principle and the idea of more crush & little grinding.



Main Structure of Symons cone crusher

Symons cone crusher main structure include the frame, transmitting, hollow eccentric shaft, bowl bear, crushing cone, set adjustment, adjustment housing, spring and hydraulic drill used to adjust the discharge opening, etc.

Working Principle of Symons cone crusher

Driven by the electric-motor, the eccentric shaft bush will rotate with the triangle belt, small and big bevel gear, big bear, transmission shaft. Driven by the eccentric shaft bush, the cone crusher axis will move circlely, which makes the mantle close or leave the cone from time to time. And then the materials will be crushed by continously compacting, striking, and crooking in the circle crushing cavity between the fixed and moveable cone. After several times' repeating, the materials will be crushed to the required size and then they will be discharged by the discharging opening.

Technical Features of Symons cone crusher

- 1 High performance :This machine merges the crushing stroke, speed and cavity shape into a single whole, and this perfect unification design make its output can be greatly improved compared with the traditional one under the same diameter.
- 2 Better particle components size :the adoption of layer crushing principle have improved the ratio of final products with cubic shape. And the ratio of stone with needle shape have been reduced a lot and the particle size have become more evenly.
- 3 High stability: the iron-appearance protection equipment will be released automaticly and then be returned to the original position when there have some non-crushing materials such as

irons entering the cavity.

4 Convenient cavity cleasing:if the machine is in the situation of downtime , the hydraulic cavity cleasing system can quickly clean the crushing cavity , thus greatly reducing the downtime.

5 High reliability:it adopts the large diameter bear, heavy main frame , and unique light lubrication automatic control system , which ensures the equipment have a robust structure and reliable function.

6 Convenient maintanance and easy operation:all the spare parts can be torn apart from top or the side wall , thus the fixed and flexible cone assembly can be easily torn apart.Bronze slide bear can maintain the excellent bear performance in the high shock and vibrating crushing environment, which has become more economic than the rolling bear with the better convenient maintenance.

7 Low operation cost:it features high production capability and reliability, convenient maintenance , which have greatly reduced the production cost.

8 Wide application:with the best use of the best performance , it can be used for various kinds of crushing crafts :from super coarse crush to fine crush , from the fixed to the portable crusher plant.There have many choices for you to choice from super coarse crushing to various cavities according to the crushing crafts.

9 Segregating lubrication and multi-control independent light lubrication system can ensure the double protection of bear's lubrication and the whole machine's automatic secure protection.

Products Advantages of **Symons cone crusher**

The CS series cone crusher (symons cone crusher) produced by Shanghai Shibang Group definitely occupy the absolute position in China's machinery area! With simple structure, convenient and reliable operation, convenient maintenance, low operation cost, high reliability, it has been exported abroad and win its own internatioanl welcome and popularity.

Technical Parameter of **symons cone crusher**

| Model | S75B | S155B | S240B | S400B |
|---|-------|-------|-------|-------|
| Crusher body | 10600 | 23000 | 45000 | 92500 |
| Shell body, support mantle, spring, eccentric mantle, Countershaft box assemblies, belt wheel, bowl bearing shell | 6480> | 13910 | 25450 | 57650 |
| shell, bearing mantle, spring | 4760 | 11000 | 19700 | 48050 |
| shell assemblies | 2630 | 5490 | 11600 | 25100 |

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| adjustment mantle, rolling mortar wall, adjustment screw | 1850 | 4900 | 10250 | 15100 |
| crushed cone, main shaft, crusher wall, feed plate | 1680 | 3630 | 7600 | 15050 |
| Countershaft box assemblies | 910 | 1270 | 2150 | 3200 |
| eccentric mantle assemblies | 550 | 1050 | 1910 | 3450 |

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