

## **Symons Cone Crusher**

### **Symons Cone Crusher profile:**

Symons cone crusher contains two different types which are divided according to cavities: the short head Symons cone crusher and the standard Symons cone crusher, you can choose either according to the situation of high crushing efficiency, even final granularity, good particle shape and crushing cavity. For higher productivity, excellent reliability and flexibility, longer service life, and standard final product quality, the symons type cone crusher is definitely your best choice.

Symons cone crusher has low costs in the day-to-day constantly operation and maintenance, reasonable selection in parts and design in structure, long broken arm of force, which reduced the load of the sliding bearings, gears and rack. The same size of the broken product particles decreased the cycle load, made it easy to operate the hydraulic Cavity system, reduced the down time, and made the power consumption low, distribution reasonable. Symons cone crusher has a wonderful lubrication system which reduces the production cost per hour in crushing process.

### **Symons Cone Crusher Main Structure:**

The main structure of Symons cone crusher includes 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.

### **Symons Cone Crusher Working Principles:**

Firstly, crushing head is powered to gyrate inside a surrounding wall, and the objects are crushed in a tapering cavity between the head and the wall by the gyration of the head.

Secondly, after the objects slid down for a short distance, the larger lumps or masses of the material are crushed into smaller masses. This is done by the impact created when these lumps are caught between the crushing head wall and the inner wall of the mantle jacket, as the head approaches a portion of the mantle wall. When the head retracts after having delivered the impact, the objects continue to slip down and spread out on the flaring wall of the head along a course, the course is bounded by the adjacent head and mantle walls, until another impact is delivered by the head.

Then, after each succeeding impact, the crushed material becomes smaller, and slides along and spreads out into an area of the tapered cavity, then the cavity will have a smaller spacing between its walls. The final size of the crushed

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### **Bebon crusher — jaw crusher, cone crusher, gyratory crusher, ball mill**

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product is determined by the spacing between the walls at the lower end of the crushing cavity, when the head is in its position closest to the mantle.

**Symons Cone Crusher Features:**

- 1.Strong crushing, less wear costs and high capacity.
- 2.Wide range of application suitability.
- 3.The key parts are made of special materials.Easy to maintain, reduce the downtime and maintenance costs.
- 4.With long crushing arm, big stroke.Stable working performance and easy to operate.
- 5.Balanced runout rotation ensures best capacity.

**Application of Symons Cone Crusher:**

The symons cone crusher is widely used for secondary and fine crushing in the fields of mining, building materials, road building,metallurgical, phosphatic industry and so on. The symons cone crusher can crush materials with middle and high hardness, such as, metal ore, iron ore, quartz,basalt, granite, limestone, cobblestone, sandstone and so on.

**Attentions:**

Where using Symons cone crusher, pay attention to the following factors to enhance machine capacity and performance.

1. Choose crushing chamber for material to be crushed properly.
2. Proper distribution of the particle size, feed distribution 360° is perfect.
3. Controlled feeding rate.
4. Properly sized scalping and closed circuit screens.
5. Automation controls are better than not.
6. Adequate crusher discharge area is a must to make the crushing process fluently.
7. Operate the crusher at recommended full load countershaft speed.
- 8.Sticky materials are not suitable for crushing.

**Symons Cone Crusher Technique paramete :**

Specification Chart In Open Circuit(STANDARD) of Symons Cone Crusher

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| Model     | Cavity       | Dia. Of Cone (Mm) | Discharge Setting A(mm) | Feed Opening (mm) |                | Capacity (t/h) | Power (KW) | Weight (KG) | Size (L×W×H) (mm) |
|-----------|--------------|-------------------|-------------------------|-------------------|----------------|----------------|------------|-------------|-------------------|
|           |              |                   |                         | Opening Side"B"   | Closed Side"B" |                |            |             |                   |
|           |              |                   |                         | PSGB-0910         | Fine           |                |            |             |                   |
| PSGB-0917 | Coarse       | 917               | 13-38                   | 175               | 150            | 59-163         |            |             |                   |
| PSGB-0918 | Extra Coarse | 918               | 25-38                   | 178               | 150            | 118-163        |            |             |                   |
| PSGB-1313 | Fine         | 1313              | 13-31                   | 137               | 115            | 109-181        | 160        | 22460       | 2983×1866×3156    |
| PSGB-1321 | Medium       | 1321              | 16-38                   | 210               | 178            | 132-253        |            |             |                   |
| PSGB-1324 | Coarse       | 1324              | 19-51                   | 241               | 205            | 172-349        |            |             |                   |
| PSGB-1325 | Extra Coarse | 1325              | 25-51                   | 259               | 220            | 236-358        |            |             |                   |
| PSGB-1620 | Fine         | 1620              | 16-38                   | 209               | 178            | 180-327        | 220        | 43270       | 3941×2954×3771    |
| PSGB-1624 | Medium       | 1624              | 22-51                   | 241               | 205            | 258-417        |            |             |                   |
| PSGB-1626 | Coarse       | 1626              | 25-64                   | 269               | 228            | 299-635        |            |             |                   |
| PSGB-1636 | Extra Coarse | 1636              | 38-64                   | 368               | 313            | 431-630        |            |             |                   |

Note : Any change of technical data shall not be advised additionally.

Specification Chart In Open Circuit(SHORT HEAD) of Symons Cone Crusher

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| Model     | Cavity       | Dia. Of Cone (Mm) | Discharge Setting A(mm) | Feed Opening (mm) |                | Capacity t/h | Power (KW) | Weight (KG) | Size ( L×W×H) (mm) |
|-----------|--------------|-------------------|-------------------------|-------------------|----------------|--------------|------------|-------------|--------------------|
|           |              |                   |                         | Opening Side"B"   | Closed Side"B" |              |            |             |                    |
| PSGD-0904 | Fine         | 904               | 3-13                    | 41                | 35             | 27-90        | 75         | 10530       | 2656×1636×2241     |
| PSGD-0906 | Coarse       | 906               | 3-16                    | 76                | 65             |              |            |             |                    |
| PSGD-0907 | Extra Coarse | 907               | 6-19                    | 102               | 85             |              |            |             |                    |
| PSGD-1306 | Fine         | 1306              | 3-16                    | 64                | 54             | 36-163       | 160        | 22590       | 2983×1866×3156     |
| PSGD-1308 | Medium       | 1308              | 6-16                    | 89                | 76             |              |            |             |                    |
| PSGD-1310 | Coarse       | 1310              | 8-25                    | 105               | 89             |              |            |             |                    |
| PSGD-1313 | Extra Coarse | 1313              | 16-25                   | 133               | 113            |              |            |             |                    |
| PSGD-1607 | Fine         | 1607              | 5-13                    | 70                | 60             | 90-209       | 220        | 43870       | 3941×2954×3771     |
| PSGD-1608 | Medium       | 1608              | 6-19                    | 89                | 76             |              |            |             |                    |
| PSGD-1613 | Coarse       | 1613              | 10-25                   | 133               | 113            |              |            |             |                    |
| PSGD-1614 | Extra Coarse | 1614              | 13-25                   | 133               | 113            |              |            |             |                    |

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