

Symons Cone Crusher

According to customer's requirement, our company designs high-performance crusher, [Symons Cone Crusher](#). This crusher concentrates on the speciality of high-frequency, optimization of cavity-type, reasonable stroke and bases on the advanced technology introduced abroad, follows the conception of laminated crushing principle, more crushing and less grinding.



Application:

[Symons cone crusher](#) is widely applied in cement making industry, building, sand making, metallurgical industry, etc. The [cone crusher](#) from China is suitable for both metallic minerals and non-metallic minerals, such as iron ore, nonferrous metal ore, granite, limestone, quartzite, sandstone, pebble, etc.

Features and Benefits:

1. Many types of crushing chamber. Customers of SHIBANG Symons cone crusher can choose the crushing chamber according to the situation.
2. Dry oil seal system. SHIBANG Symons cone crusher has special seal structure, which extends the lubricants' replacement cycle and the life of spare parts.
3. Special material is adopted on the key components of SHIBANG Symons cone crusher to support large crush power.
4. High productivity. SHIBANG Symons cone crusher has longer crush arm, larger stroke, higher crush power.
6. Low cost of daily run and maintenance.

Working principle:

1. Driven by the electric-motor, the eccentric shaft bush will rotate with the triangle belt, small and big bevel gear, big bear, transmission shaft .

2. 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 bending in the circle crushing cavity between the fixed and moveable cone.

3. After several times' repeating, the materials will be crushed to the required size and then they will be discharged by the discharging opening.

Technical Data:

Type	Dia.of cone (mm (inch))	Cavity	Feed opening (mm)	Discharge setting (mm)	Capacity (ton/hour)	Counter shaft (r/min)	Power (kw)	Weight (ton)	Overall dimension (mm)
2ft	600(2')	fine	72	6-38	16-54	575	22	6	2195x1158 x 1651
		coarse	109	9-38	18-68				
		Extra coarse	109	13-38	23-72				
3 ft	900(3')	fine	102	9-22	45-91	580	75	15	2656x1746x2241
		coarse	175	13-38	59-163				
		Extra coarse	178	25-38	118-163				
4 1/4 ft	1295(4 1/4')	fine	137	13-31	109-181	485	155	27	2809x2354x3156
		medium	210	16-38	132-253				
		coarse	241	19-51	172-349				
		Extra	259	25-51	236-358				
5 1/2 ft	1676 (5 1/2')	fine	209	16-38	181-327	485	220	55	3911x2870x3771
		medium	241	22-51	258-417				
		coarse	269	25-64	299-635				
		Extra	368	38-64	431-630				
7 ft	2134(7')	fine	278	19-38	381-726	435	315	110	4613x3251x4732
		medium	334	25-51	608-998				
		coarse	369	31-64	789-1270				
		Extra	460	38-64	880-1361				

Type	Dia. of cone (mm (inch))	Cavity	Feed opening (mm)	Discharge setting (mm)	Capacity (ton/hour)	Counter shaft (r/min)	Power (kw)	Weight (ton)	Overall dimension (mm)
2ft	600(2')	fine	35	3-13	9-36	575	22	6	2195x1158x1651
		coarse	51	5-16	16-50				
3 ft	900(3')	fine	41	3-13	27-90	580	75	15	2656x1746x2410
		medium	60	3-16	27-100				
		coarse	76	6-19	59-127				
4 1/4 ft	1295(4 1/4')	fine	64	3-16	36-163	485	155	27	2958x2254x3156
		medium	89	6-16	82-163				
		coarse	105	10-25	109-227				
		Extra	133	19-25	209-236				
5 1/2 ft	1676(5 1/2')	fine	70	5-13	90-209	485	220	55	3917x2870x3771
		medium	89	6-19	136-281				
		coarse	133	10-25	190-336				
		Extra	133	10-25	253-336				
7 ft	2134(7')	fine	105	5-16	190-408	435	315	110	4130x3251x4454
		medium	133	10-19	354-508				
		coarse	178	13-25	454-599				
		Extra	203	16-25	508-653				

Note: This specification is just for reference, any changes are subject to the Symons Cone Crusher products.

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