

Spring Cone Crusher

Spring [cone crusher](#) is cone crusher which is the earliest appearance in the world, and it is used widest and larger quantity crush mechanism in present. With the improvement of the series of Symons cone crusher, their structure is more perfect and the technology parameter is more advanced, so these crushers have excellent performance in the aspects of manufacture, installation, use and maintenance etc.



Working principle:

[Spring Cone crusher](#) crushes materials by the working surface between the movable cone and fixed cone. So it is more advanced and efficiency efficient than jaw crusher. The movable cone is supported by spherical bearing and fixed on an hanging erect shaft which is set in the eccentric sleeve, and the sleeve is set on the stopping and pushing bearing. The movable cone and erect shaft are driven by the eccentric shaft sleeve together. The eccentric shaft sleeve is driven by horizontal shaft and fimbriated gear, and the wheel of the conveyor belt is driven by motor through v-belts. The lower part of vertical shaft is installed in the eccentric sleeve. When the eccentric sleeve rotates, there is a conical surface lined out by the shaft. When the movable cone comes near the fixed cone, rocks are grinded into pieces, when the movable cone leaves, grinded materials is discharged from the discharge hole. The fixed cone can be ascended or descended by adjusting setting to adjust the width of discharge hole, consequently the output size is determined adjusted.

Application:

Spring cone crushers are widely used in industries like metallurgy, construction, road building, chemistry etc, to crush many kinds of mid-hard or hard rocks and ores such as iron ore, limestone, granite, basalt, quartz etc. The standard ones are used for intermediate crushing; the medium ones are used for fine crushing; and the short head ones are used for super thin crushing.

Technical Data:

Model	weight (T)	power	diameter of cone crusher at big end (mm)	max feeding size	adjustment range of discharge opening	capacity (t/h)	
PYB	600	5	30	Φ600	65	12-25	20-40
PYD				Φ600	35	2-13	12-23
PYB	900	11.2	55	Φ900	115	15-50	60-105
PYZ				Φ900	60	5-20	50-90
PYD				Φ900	50	3-13	15-50
PYB	1200	35	130	Φ1200	145	20-50	110-168
PYZ				Φ1200	100	8-25	42-135
PYD				Φ1200	50	3-15	18-105
PYB	1750	50.3	160	Φ1750	215	25-50	280-480
PYZ		50.3		Φ1750	185	10-30	115-320
PYD		50.2		Φ1750	85	5-15	75-230
PYB	2200	80	260 280	Φ2200	300	30-60	590-1000
PYZ				Φ2200	230	10-30	200-580
PYD				Φ2200	100	5-15	125-350

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

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