

Cone Crusher—Shanghai Shibang Machinery

Shanghai Shibang Machinery Co. Ltd., has independent import-export right with a special international market department to deal with exporting affair. We have a professional after-sale service faculty to provide considerate and all-around-way service for the customers. Our products have taken up a considerable place in the world market. They have been exported to America, Italy, Turkey, Australia, Singapore, Indonesia, Vietnam, Iran, India, Chile, Venezuela, Libya, Ethiopia, United Arab Emirates, Kazakstn, Kyrgyzst and receive high popularity.

Market demand is the drive and basis of our endless innovation. Rich technical experience and the application of high technology make our products rank a leading place in the industry in technology content, performance, reliability and maintenance cost, etc. We expect your choice and prepare to provide you with heartfelt service at any time.



A gyratory crusher (or [cone](#) crusher) is similar in basic concept to a jaw crusher, consisting of inner and outer vertical crushing cones; the outer cone is oriented with its wide end upward, and the inner cone is inverted relative to the outer with its apex upward. The inner cone has a slight circular movement, but does not rotate; the movement is generated by a cam or eccentric arrangement. As with the jaw crusher, material travels downward between the two cones being progressively crushed until it is small enough to fall out through the gap between the two cones at the bottom.

Cone Crusher is widely applied in metallurgical, construction, road building, chemical and phosphatic industry. It is suitable for hard and mid-hard rocks and ores, such as iron ores,

copper ores, limestone, quartz, granite, gritstone, etc. Type of the crushing cavity is decided by the application of the ores. Standard type is for PYZ (secondary crush); middle type is for PYD (tertiary crush); short-head type is for primary and secondary crush.



Structure & operation principles:

The crusher consist of frame, transmission device, hollow eccentric shaft, bowl-shaped bearing, crushing cone, springs and hydraulic pressure station for adjusting discharge opening. During operation, the motor drives the eccentric shaft shell to turn around through a horizontal axle and a pair of bevel gear. The axle of crushing cone swings with the force of eccentric shaft shell so that the surface of the crushing wall is close to the roll mortar wall from time to time. In this way, the ores and rocks will be pressed and crooked and crushed.

Working principle:

the motor is forced by eccentric sleeve through belt pulley or coupling, driving shaft and the cone to oscillate and rotate around a certain axis, so as to make the crushing wall close to and far away from surface of the liner plate fixed on the adjusting sleeve. The ore is crushed by continuous impact, extrusion and flexural action in the crushing cavity. When non-broken foreign materials pass through the crushing cavity or the **cone crusher** is overloaded for

some reasons, the spring safe system begins to protect the equipment by expanding the discharging outlet to discharge the foreign materials from the crushing cavity. If the foreign materials are stuck at the discharge outlet, use cavity-cleaning system to further expand the outlet, so as to discharge the foreign materials from the crushing cavity. Under the action of spring, the discharge outlet recovers by itself, and the equipment returns to normal.

Cone Crusher Specification:

Model	weight (T)	power	diameter of cone crusher at big end(mm)	width of feed opening (mm)	max feeding size	adjustment range of discharge opening	capacity (t/h)	
PYB	600	5	30	Φ600	75	65	12-25	20-40
PYD				Φ600	40	35	2-13	12-23
PYB	900	11.2	55	Φ900	135	115	15-50	60-105
PYZ				Φ900	70	60	5-20	50-90
PYD				Φ900	50	50	3-13	20-65
PYB	1200	35	130	Φ1200	170	145	20-50	110-168
PYZ				Φ1200	115	100	8-25	42-135
PYD				Φ1200	60	50	3-15	18-105
PYB	1750	50.2	160	Φ1700	250	215	10-30	280-480
PYZ				Φ1700	215	185	10-30	115-320
PYD				Φ1700	100	85	5-15	75-230
PYB	2200	80	260	Φ2200	350	300	30-60	590-1000
PYZ			280	Φ2200	275	230	10-30	200-580
PYD			Φ2200	130	100	5-15	125-350	

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