



## Cone Crusher

The [Cone crusher](#) is suitable for crushing various mid-hard and above mid-hard ores and rocks. It has the advantage of reliable construction, high productivity, easy adjustment and less cost in operation. The spring release system of crusher acts as an overload protection system that allows tramp to pass through the crushing chamber without damage to the crusher. Two kinds of sealed formation dry oil and water are used, the plaster stone and engine oil are separated, and reliable performance is ensured.



### Illustration of How cone Crusher works?

[Cone crusher](#) crushes materials by the working surface between the movable cone and fixed cone. The movable cone of the cone crusher is supported by spherical bearing and fixed on a 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 of cone crusher 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 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.

## **Cone Crusher Features:**

- 1) High quality and productivity
- 2) Short downtime
- 3) Easy maintenance, low expense
- 4) Unparalleled in medium and fine crushing

## **General Parts of the Cone Crusher:**

- 1 the department of framework
- 2 the department of transmission
- 3 the department of eccentric sleeve
- 4 the department of bowled bearing
- 5 the department of crushing head
- 6 the department of adjuster
- 7 the department of regulating sleeve
- 8 electric motor
- 9 the department of foundation
- 10 the department of input
- 11 the department of sprung
- 12 the department of lubricate
- 13 unite shank

## **The Structure and Elements of the Cone Crusher:**

1) When the [cone crusher](#) is working, electric motor through the elastic coupling、transmission shaft and a pair angle gear bringing along eccentric bushing turning, crushing headcrushing head axial lead on the urgent stir



down of eccentric bushing, does screw pendulum movement, does fracture wall and dish wall approaching from time to time、 being far from time to time, nobs and shots ores at crushing chamber internal continually until the ores are fracture.

2) The cone crusher is composed of chassis、 transmission shaft、 eccentric sleeve、 bowled bearing、 crushing head、 supporting sleeve、 regulating sleeve、 input、 sprung、 coupling、 lubricate、 electric appliance and so on.

## The Installment of the Cone Crusher:

1) In the building of the machine, there must be hoisting equipment, in order to use during the machine reinstallation and maintaining.

2) The foundation of the machine is as shown in figure 1, and this chart is for your indication only, user can make a design according to the physical circumstances.

3) There should be enough room under the foundation in order to reinstall transportation device.

4) For the foundation is free from spoil, on the foundation there should be covered frame cover, which is supplied by the user.

5) The position of the clubrication system and electric operation can be transferred by user according to physical circumstances, but the order should not be changed.

6) The reinstallation of the framework(figure 2)

(1)When reinstalling the chassis, near the anchor bolt the users can make use of 8-12 suites dunnage、 drill key to support and adjust up the levelness and verticality .The deviation of the levelness with round machined surface for base, measured by gradienter is no greater than 0.1mm/m; The verticality with the adapter central of the chassis for base, is measured by overhung.

(2)After the framework is adjusted and fastened, group dunnage should be welded, lest motion.

(3)When the equipment erection is in good order, the second casting should be done.

## Technical Data Of Cone Crusher:

Type	Weight (T)	Power (kw)	Outside diameter Of crushing con	Max Feeding (mm)	The adjusting range of dischar	capacity (t/h)



Shanghai Yuanhua [Crusher](#) Machinery: E-mail :shyhlq@crusher-mill.com

				e (mm)		ger (mm)	
PYB	600	5	30	600	65	12-25	20-40
PYD		5.5		600	35	2-13	12-23
PYB	900	11.2	55	900	115	15-50	60-105
PYZ		11.2		900	60	5-20	50-90
PYD		11.3		900	50	3-13	20-65
PYB	1200	24.7	130	1200	145	20-50	110-168
PYZ		25		1200	100	8-25	42-135
PYD		25.3		1200	50	3-15	18-105
PYB	1750	50.3	160	1700	215	25-50	280-480
PYZ		50.3		1700	185	10-30	115-320
PYD		50.2		1700	85	5-15	75-230
PYB	2200	80	260 280	2200	300	30-60	590-1000
PYZ		80		2200	230	10-30	200-580
PYD		81.4		2200	100	5-15	125-350

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