



Reach new height with KEFID

# HP Cone Crusher



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## Brief Introduction:

HP Series of highly efficient Hydraulic Cone Crusher is a world-level cone crusher introduced with the up-to-the-minute technology of Germany. The cone crusher not only improves the production capacity and crushing efficiency, but also widens applying area, hardness range of materials from limestone to basalt. It has a great crushing performance in the work of medium-size crushing, fine crushing and super fine crushing. The crusher is the improved type of spring cone crusher and can be used to replace ordinary hydraulic cone crusher in the field of mining and construction. It is the most ideal equipment for large stone crushing factory and mining industry.







## Advantages:

1. High crushing ratio and production efficiency. Connection of higher turning speed and stroke makes rated power and passing capacity improved greatly and crushing ratio 5-15% and capacity increased at 35-60%;

2. Between-layer pressuring crushing and better finished product shape. The crusher adopts between-layer pressuring crushing principle and suitable turning speed, not the traditional single particle crushing principle. The special crushing cavity can make the crusher crush materials selectively, thus the proportion of fine product and product of cubic shape is increased distinctly and product of lump size is decreased by a large extent.

3. Hydraulic protection and hydraulic cavity clearing, high automatic and less stopping production and repairing time.

4. Thin oil lubrication makes the life time increased. Unique design of thin oil lubrication system prolongs life time of the crusher. High performance and not touchable labyrinth airproof part block off dust and remove common disorders like mixture of oil and water in spring cone crusher.

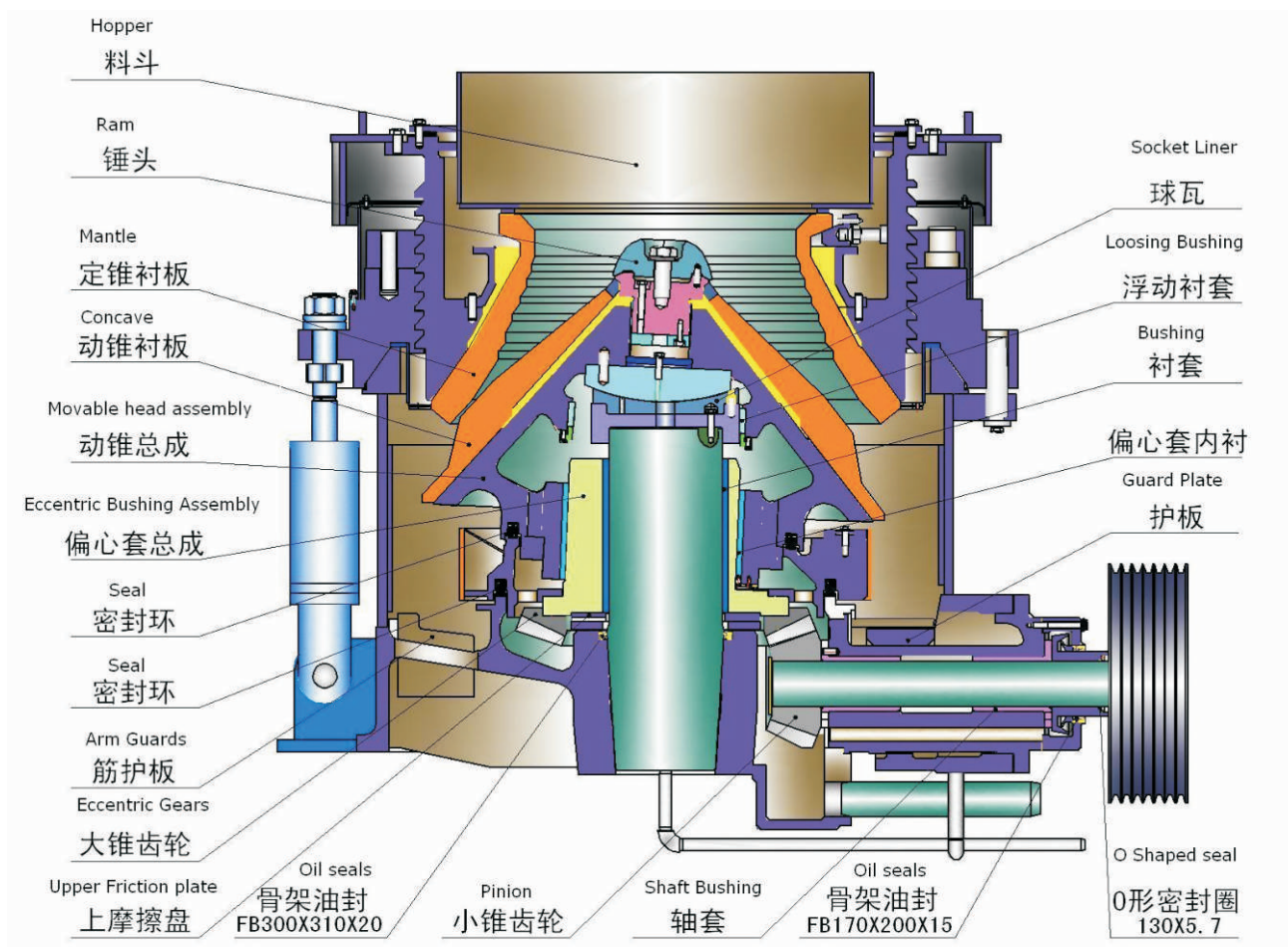
5. Various crushing cavity. It only need change fixed cone lining board and movable cone lining board; , the type of crushing cavity can be changed from standard coarse cavity to short head fine cavity, which can meet various kinds of requirements.



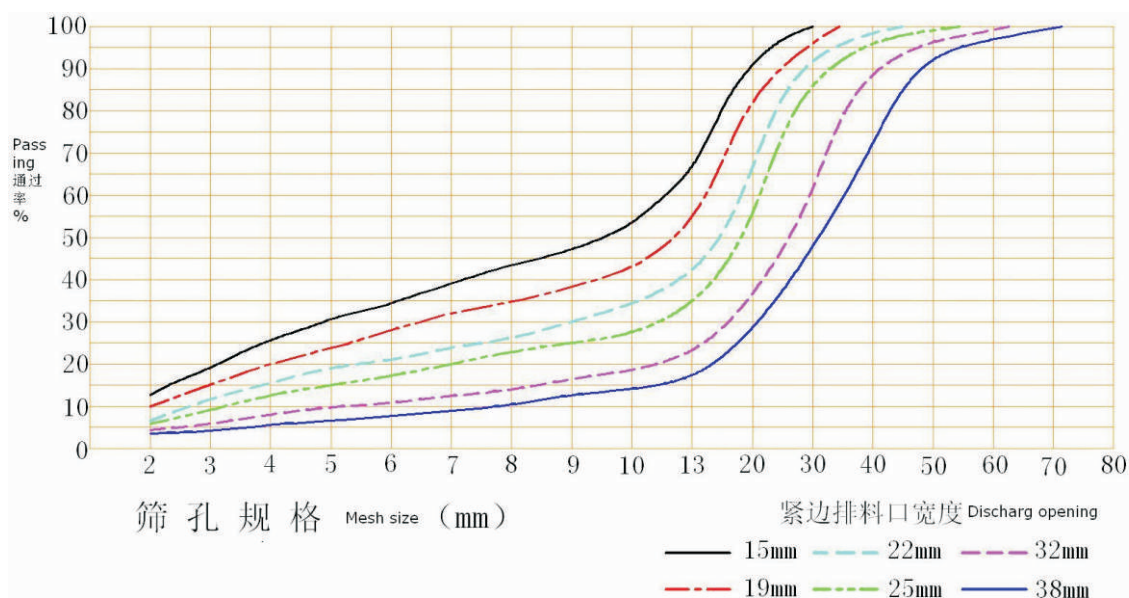


## Main Structure:

HP Series High Efficiency Cone Crusher consists of Frame assembly , eccentric bushing assembly, driving shaft assembly, motor assembly, mantle assembly and concave assembly etc. The accessories parts are electric control system, lubrication system and hydraulic system.



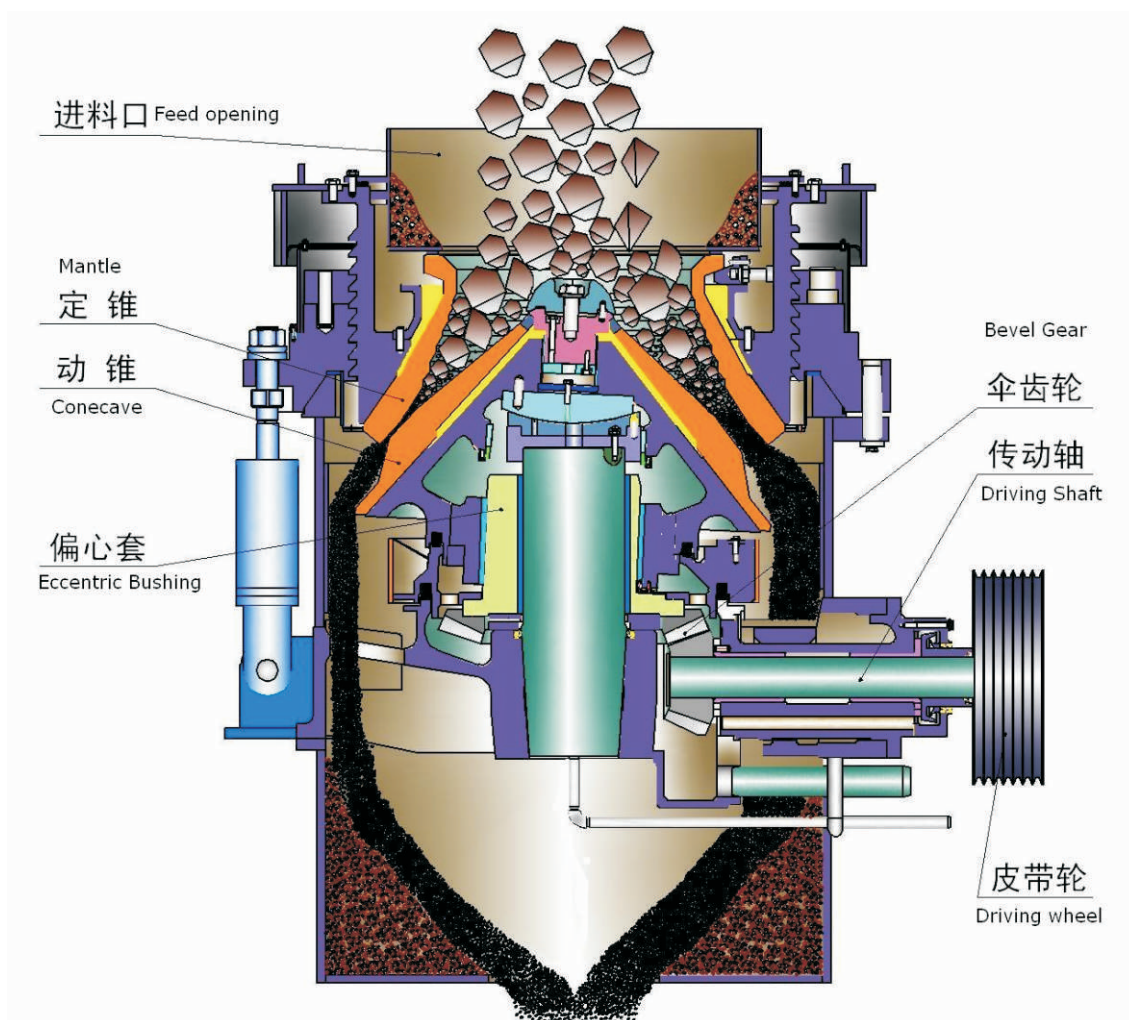
HP Series High Efficiency Cone Crusher grading curve:





## Working Principle:

As is shown, the motor drives eccentric bushing revolve via V-belt, driving shaft and bevel gear. The mantle is revolved under the action of eccentric bushing. Sometimes, the concave is near to mantle sometime, sometimes, the concave is far from mantle. The raw material is being pressed and impacted all the time in the crushing chamber. Then the crushed the material is discharged from the discharge opening.







## Gradation (%) at close side setting:

Close Side Settings (mm)	6	8	10	13	16	19	22	25	32	38	45	51
102	100	100	100	100	100	100	100	100	100	100	100	100
76	100	100	100	100	100	100	100	100	100	100	98	95
63.5	100	100	100	100	100	100	100	100	100	99	95	90
50.8	100	100	100	100	100	100	100	100	96	90	80	66
38.1	100	100	100	100	100	100	97	95	90	76	62	50
31.8	100	100	100	100	100	97	91	88	68	50	40	35
25.4	100	100	100	100	99	90	82	78	52	44	35	29
22.2	100	100	100	99	93	86	75	64	43	35	29	26
19.1	100	100	100	94	87	80	65	57	37	30	26	23
15.9	100	100	97	88	78	68	54	45	28	23	19	17
12.7	100	93	86	74	62	52	40	33	20	16	14	13
9.5	93	79	70	60	50	40	30	25	16	12	10	10
7.9	81	70	59	53	44	36	27	23	13	11	9	9
6.4	70	58	48	45	37	32	24	20	12	9	8	7
5	55	44	36	32	30	26	18	15	8	7	6	5
3.75	41	32	28	26	22	18	14	12	6	5	4	4
2	29	24	20	17	13	11	8	7	4	3	3	2
不同排料口尺寸下的成品料筛前百分比 Gradation(%) at Close Side Setting												

1. The above data is based on the medium hardness material and the cone crusher is fed equably;
2. The data will be different if the raw material is of different hardness and feeding.

## Technical Data:

Type	Cavity (coarse/fine)	Min. discharge size (mm)	Feed size (mm)	Capacity (t/h)	Power (kW)	Weight (t)	Movable cone diameter (mm)
HP-160	C	13	150	120-240	160	13	950
	F	6	76	55-180			
HP-220	C	13	225	150-430	220	18	1160
	F	6	86	90-260			
HP-315	C	13	290	190-610	315	26	1400
	F	6	100	108-320			
HP-400	C	13	320	230-700	400	33	1500



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