

Profession creates brand



SMS Series Hydraulic Cone Crusher

SINO-GERMAN JV HOLDING

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SMS Series Hydraulic Cone Crusher



SMS Sereis Hydraulic Cone Crushers are the brand new series cone crushers that employ international advanced technology and excellent performance, suitable for crushing hard and mid-hard ores and rocks.

Discharge setting can be adjusted by hydraulic motor

SMS2000 – Optional
SMS3000/4000/5000 – Standard

Operating Principle for SMS Series Hydraulic Cone Crusher

The crusher is composed of main frame, transmission shaft, eccentric, socket liner, crushing body, adjusting device, bowl, lubrication system and hydraulic unit and so on. When the crusher works, the motor revolves eccentric shaft by horizontal shaft and a couple of bevel gears. The axle center line makes the rotary oscillation, this makes the mantle surface sometimes moving forward to the concave surface, but sometimes leaving away, and thereupon the mineral is ceaselessly squeezed and circled to be crushed in the crushing chamber. Materials enter into the crusher through feed opening, and the crushed material will be discharged through the discharge mouth underneath.

Main technical data of SMS Series Hydraulic Cone Crusher:

Technical Data

Model	Max Feed Size (mm)	Discharge Range (mm)	Motor Power (kw)	Capacity(t/h)-open circuit, closed discharge(mm)													
				6	9	13	16	19	22	26	32	38	45	51			
SMS2000C	185	22~38	160						180	195	210	225					
SMS2000M	135	16~32	160				118	140	163	182	200						
SMS2000F	95	13~26	160			95	115	135	160	180							
SMS2000DC	76	10~22	160		75	90	105	125	155								
SMS2000DM	54	9~19	160		75	90	105	120									
SMS2000DF	25	6~16	160	60	78	95	115										
SMS3000EC	235	26~51	220								230	270	320	370	400		
SMS3000C	211	22~45	220						210	225	260	310	360				
SMS3000M	150	16~38	220				155	175	200	220	260	295					
SMS3000F	107	13~32	220			110	135	165	195	225	250						
SMS3000DC	78	10~22	220		105	130	160	185	210								
SMS3000DM	53	9~19	220		102	125	155	180									
SMS3000DF	25	6~16	220	90	105	125	150										
SMS4000EC	299	32~51	315									366	420	480	520		
SMS4000C	235	26~51	315								295	350	390	415	475		
SMS4000M	199	22~45	315							266	305	338	363	395			
SMS4000F	135	16~38	315				198	210	245	275	305	330					
SMS4000DC	95	13~26	315			180	205	235	265	290							
SMS4000DM	76	10~22	315		145	180	205	230	260								
SMS4000DF	45	6~19	315	120	145	175	200	200									
SMS5000EC	335	32~51	400									460	560	615	680		
SMS5000C	275	26~51	400								395	475	540	595	630		
SMS5000M	210	22~45	400							340	385	462	515	560			
SMS5000F	150	16~38	400				285	305	330	365	437	495					
SMS5000DC	102	13~26	400			230	280	340	375	410							
SMS5000DM	76	10~22	400		175	215	270	330	355								
SMS5000DF	45	6~19	400	145	170	210	265	325									

Note: 1.The capacity is total tons per hour passing through crusher at open circuit when crushing mid-hard material and bulk density with $1.6 \times 10^3 \text{kg/m}^3$. Capacities are relative to physical character and type of feeding, feeding size and composition and so on.

SMS Series Hydraulic Cone Crusher

1.Fixed spindle

The strongest advantage is that it makes the load-carrying capability of every accessory more reasonable, power transformation more efficient, it can use greater eccentricity and higher rotation speed to gain higher production.

2.Cavity clearing

SMS Series Hydraulic Cone Crusher adopts the mutual independent design of bumpers and cavity clearing and adopts the more stable and reliable single cylinder which highly improves the reliability of the hydraulic system.

3.Hydraulic discharge opening adjustment

Adjustment of discharge opening for SMS2000 hydraulic cone crusher can be realized through hydraulic motor driving bowl. Solid-locked cylinder locks the adjustment sleeves which help you adjust the discharge opening without onsite job.

4.Improved insurance cylinder, energy accumulator

When load suddenly increase such as tramp iron, hydraulic oil of safety cylinder can instantly flow back to energy accumulator , and piston rod rise up rapidly, thereupon protect the component of crusher and reduce the harm of impact load.

5.Bowl locking adjustment

After adjusting the discharge opening, bowl can be locked by hydraulic locking cylinder without locking the wedge or bolt. Bowl can be locked by button pressing, intensity of labor is reduced and downtime is saved, at the same time, reliability of locking can be ensured.

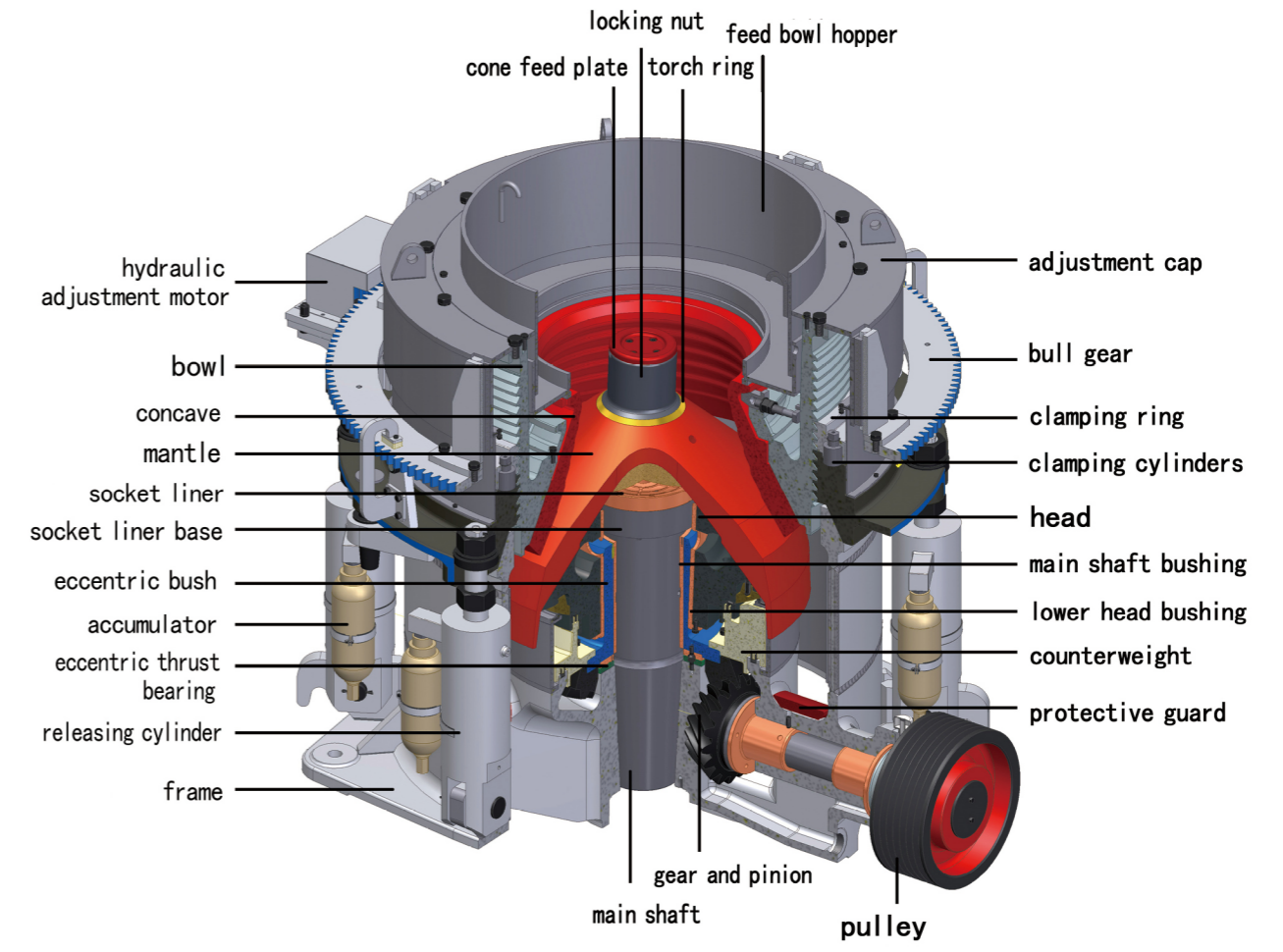
6.Integration base

Brand new integration base is composed of installation modules such as master device, motor, belt guard, etc. The integration design simplifies the installation procedures which brings customers great convenience.

7.Optimized cavity, higher production

The cavity employs the features of high production and low consumption; at the same diameter of the mantle, it enjoys longer crushing stroke, higher crushing ratio; it can take the advantage of the laminating crushing effect when the cavity is full to offer more stable particle size and more excellent particle shape.

Main Components



Features and Advantages

- Integrated by international advanced technology, excellent performance
- Fixed spindle design and optimized crushing cavity increase the crushing production.
- More stable composition of particle size, more excellent particle shape
- Complete hydraulic standard configuration, simple operation, flexible adjustment.
- Single cylinder with independent design, more stable system performance
- Brand new integration engine base simplifies the installation procedure.
- Improved structure integrates function and aesthetics.

