SMS系列液压圆锥破碎机

SMS Series Hydraulic Cone Crusher

SMS系列全液压圆锥破碎机是结合国际先进技术，具备优越性能的全新系列圆锥破碎机，适合破碎坚硬、中等硬度以上的各种矿石和岩石。

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

产品特点与技术优势 ：

1. 结合国际先进技术，具备优越性能的全新系列圆锥破碎机。
2. 固定主轴设计和优化的破碎腔型，全面提升破碎产量。
3. 产品粒度组成更稳定、粒状更佳。
4. 全液压标准配置，操作简单调整灵活。
5. 独立设计的单作用缸，系统性能发挥更稳定。
6. 全新一体化机座，简化安装步骤
7. 外形结构改进，集功能与美观于一体

Product features and technology advantages：

Integrated by international advanced technology, employs 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.

固定主轴

Fixed spindle

最大的优点是让各个零件的受力更为合理，动力转化更为有效,能够使用更大的偏心距和更高的转速，从而获得更高的产量

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.

清腔

SMS系列全液压圆锥破碎机采用保险杠和清腔油缸相互独立设计，并使用更为稳定可靠的单作用缸，从而提高液压系统的可靠性。

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.

液压排料口调整

SMS系列全液压圆锥破碎机排料口的调整通过液压马达带动调整套来实现，配合液压锁固缸锁紧调整套，让您无需到达现场就可完成调整排料口的工作。

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.

改进的保险缸、蓄能器

当破碎机在过铁或其他负载突然增大时，保险缸的液压油可以瞬间的流回蓄能器，快速的抬升活塞杆，从而更好的保护破碎机零部件，减少冲击负载对机器的伤害。

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.

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调整套锁固

在完成调整排料口之后，调整套的锁固通过液压锁紧缸来完成，您只需按一个按钮即可完成锁紧调整套的工作，大大降低了劳动强度，节约了停机时间，同时也保证了锁紧的可靠性。

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.

一体化底座

全新设计的一体化的底座，包含了主设备、电机、皮带护罩等安装模块，简化了设备安装步骤，为用户带来极大的方便。

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.

优化的腔型，更高的产量

腔型具有产量高、能耗低的特点；在同样的破碎壁直径下，破碎行程更长、破碎比更大；在满腔情况下更能利用层压破碎作用，使最终的产品粒度组成更稳定、粒型（立方体）更优 。

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.

SMS系列全液压圆锥破碎机工作原理：

SMS系列全液压圆锥破碎机主要有机架、传动轴、偏心套、碗型瓦、破碎驱体、调整装置、调整套、润滑系统以及液压系统等部分组成。

破碎机工作时，电动机通过传动轴和一对锥齿轮带动偏心套旋转，破碎圆锥轴心线在偏心套的迫动下做旋摆运动，使得破碎壁表面时而靠近又时而离开轧臼壁的表面，从而使矿石在破碎腔内不断地受到挤压而被破碎。物料通过破碎机上部给料口进入破碎机，破碎后经破碎机下部排料口排出。

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.

SMS 系列液压圆锥破碎机主要技术参数：

Main technical data of SMS Series Hydraulic Cone Crusher

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

注： 上述生产能力是在破碎物料密度为$1.6x10^3kg/m^3$时开路循环生产中总吨数。生产能力与破碎物料的物理性能、给料方式、进料粒度及其组成等工况有关。

Note: The capacity is total tons per hour passing through crusher at open circuit when crushing mid-hard material and bulk density with $1.6\times10^3kg/m^3$.Capacities are relative to physical character and type of feeding , feeding size and composition and so on.