

SANME

SMG 系列液压圆锥破碎机

SMG Series Cone Crushers

中德合作产品

Sino-German Joint Venture Product



上海山美重型矿山机械有限公司 (德国哈兹马克合资公司)
SHANGHAI SANME MINING MACHINERY CO., LTD. (JV WITH HAZEMAG GERMANY)

SMG100S

SMG200S

SMG300S

SMG500S

SMG100

SMG200

SMG300

SMG500

SMG700

SMG800



SMG 系列液压圆锥破碎机是具有世界先进水平的圆锥破碎机，不仅具有高可靠性，而且破碎效率高、运行成本低、产品粒形好等优点，广泛应用于矿山和砂石骨料行业，适合破碎坚硬、中等硬度以上的各种矿物和岩石，可以应用于物料的中碎、细碎及制砂。

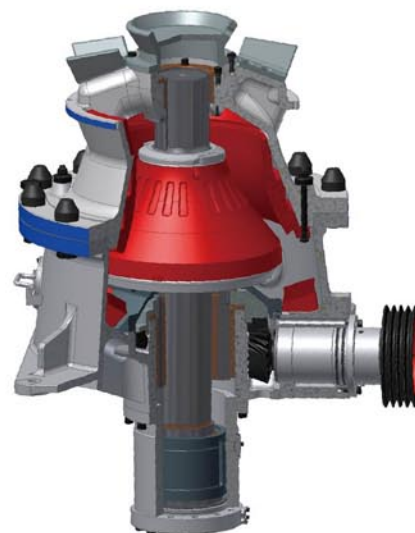
SMG series cone crusher is an advanced technology of cone crusher in the world, not only provides the features of high reliability, but also with the features of high crushing efficiency, low operating cost, good shape of end products. It is widely applied in the field of mining and aggregate processing industries and it is suitable for crushing hard and mid-hard ore and rock, meanwhile, it can be used for secondary crushing, tertiary crushing and sand making.

特点及优势: Features and Benefits:

优化的腔型 更高的产量 更佳的产品质量 Optimized cavity, higher capacity and better quality

SMG 系列液压圆锥破碎机在总结了各种破碎腔型的优点基础上，在经历理论的分析 and 实践的检验情况下，设计出的 SMG 系列液压圆锥机具有多种破碎腔型可供选择，通过选择合适的破碎腔型及偏心距，可以最大限度的满足客户的生产要求，实现高产量。在挤满给料情况下，能够实现层压破碎，使最终的产品粒形更优、立方体颗粒含量更多。

Based on all advantages of each crushing cavity, and through theoretical analysis and practical examination, SMG series cone crusher is designed for optional variety of cavities. By selecting suitable cavities and eccentricity, it ensures the producing demand of customer in maximum and realizes high capacity. Laminated crushing function can be fully realized when full load, which contributes to good shape of end product with more cubic particles.



易损件消耗少 运行成本低 Resistant wear part consumption and low operating cost

由于采用液压调整排矿口，可以及时、方便的调整排矿口，使破碎机在挤满给料状态下工作，降低易损件的消耗，降低运营成本。

The discharging open can be adjusted timely and conveniently with hydraulic adjusting design, which realizes full load operation, lowers wear parts consumption and reduces operating cost.

粗细破碎转换方便 Easy cavities exchange

因为破碎机的主体结构相同，所以只需通过更换衬板就可以获得不同的破碎腔型，可以满足粗细碎的不同工艺要求。

Due to the same body structure, we can get different crushing cavity by changing liner plate to fulfill the various processing for coarse and fine crushing.



先进的液压技术使操作简单和维修方便

Advanced hydraulic technology offers easy operation and maintenance

由于采用了先进的液压技术，可有效实现过载保护，简化了破碎机结构，减轻了重量。当有不可破碎的异物进入破碎腔时，液压系统可以平缓的释放冲击力以保护主机，并在异物通过后恢复到原来的排料口，避免出现闷车的现象。如果破碎机在负载的情况下停机，液压缸能提供较大的清腔行程，帮您快速地清理掉破碎腔中的石料，并可以恢复到原来的排料口，不需要您再次调整排料口。相对于传统的弹簧式圆锥破碎机来说，更加安全、更加快捷，最大限度的节约了您的停机时间。

所有的维护和检查都可以从破碎机的上部来完成，使维修更方便。

Due to adopting advanced hydraulic technology, overload protection can effectively be realized, which simplify the structure of crusher and reduces its weight. When some unbreakable foreign materials enter the crushing cavity, the hydraulic systems can release the impact force gently to protect the mainframe and the discharge opening will retrieve after the foreign materials are discharged, avoiding extrusion failure. If cone crusher is stopped with load, the hydraulic cylinder of double functions clears the materials in the cavity with the maximum clearing stroke and the discharge opening will go back to the original position automatically and save you from readjusting. Hydraulic cone crusher is much safer, quicker and saves you more down time compared with traditional spring cone crusher.

All maintenance and inspection can be fulfilled on the top of crusher, which ensures easy maintenance.

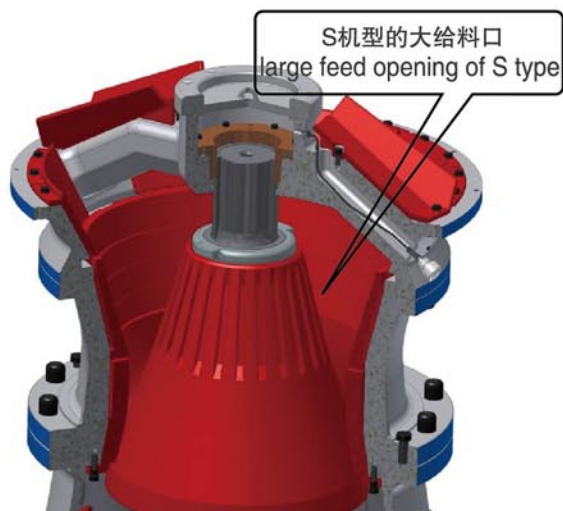


大给料口设计

Large feeding opening design

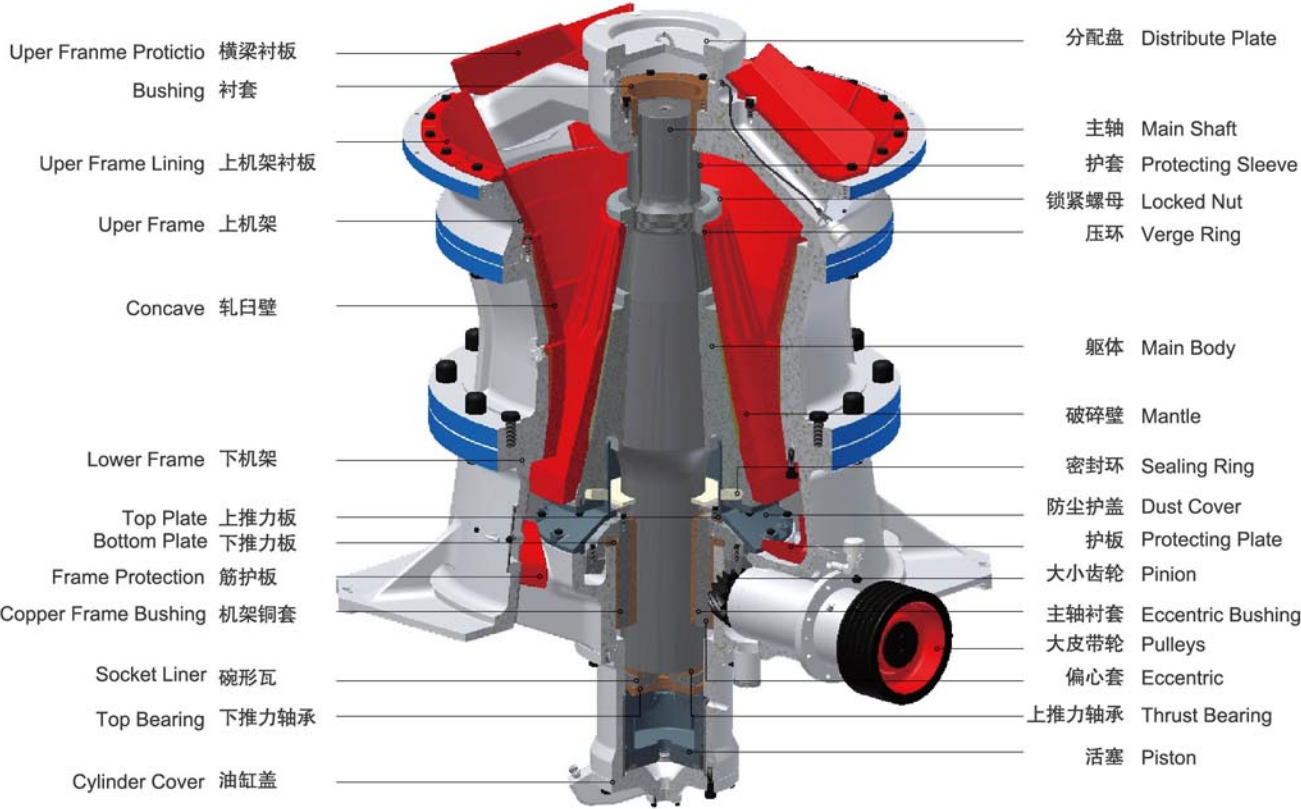
SMG 系列液压圆锥破碎机的 S 机型采用大给料口设计，可以和前段的粗碎颚式破碎机或旋回破碎机形成更好的配套，提高破碎系统的处理能力；在加工河卵石时，可以替代颚破作为粗碎。

Large feeding opening design is adopted by S type SMG series cone crusher to provide good combination with primary jaw crusher or gyratory, which greatly improves the crushing capacity. While processing gravels, it can replace jaw crusher and be used as primary crusher.



SMG 系列中碎液压圆锥破碎机
SMG Series Secondary Cone Crushers

主要部件 Main Components

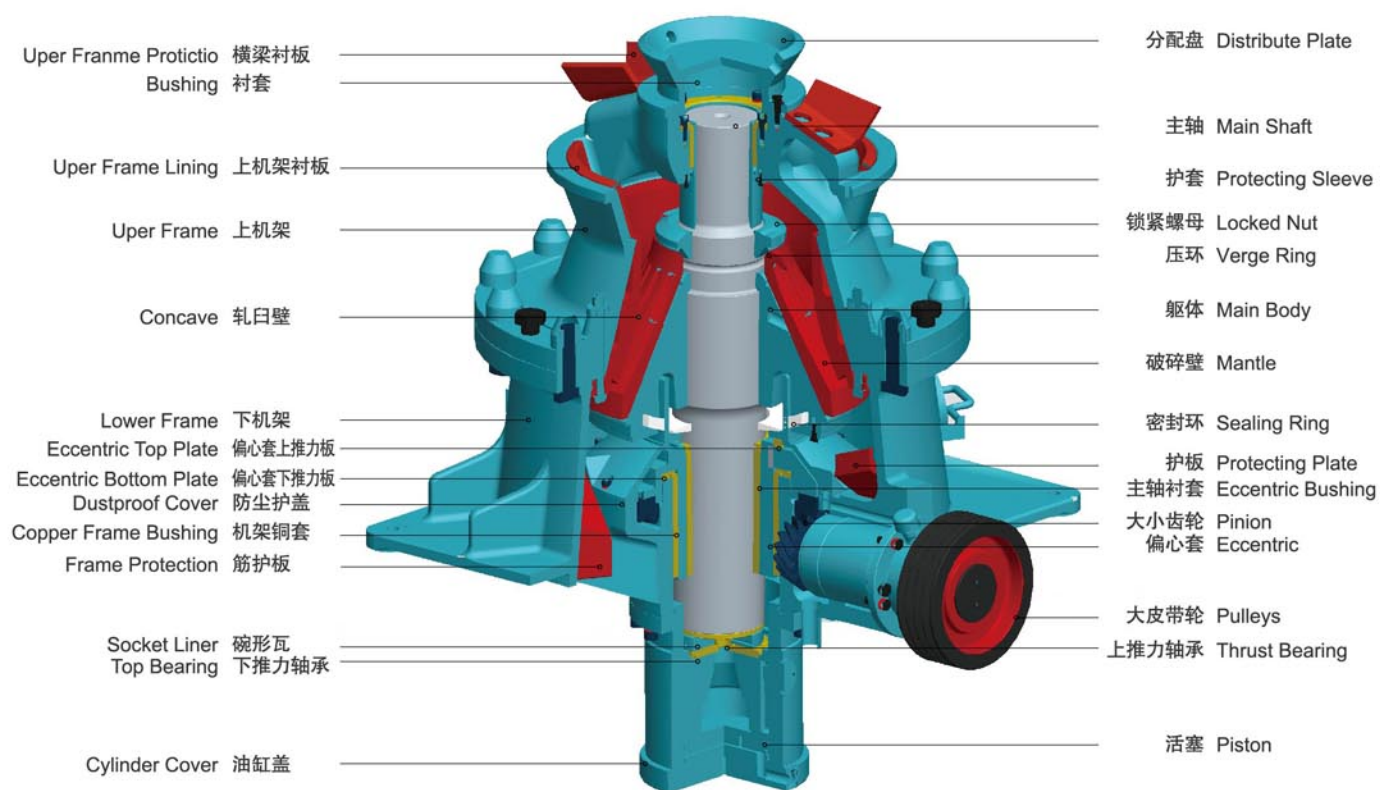


技术参数 Technical Data

型号 Model	SMG100S	SMG200S	SMG300S	SMG500S
电机功率 Motor power (kw)	90	160	250	315
冲程 Stroke (mm)	16-25	18-36	18-40	18-40
维修时最大起重量 Max lift during maintenance (kg)	2850	4750	8500	14200
总重量 Total weight (kg)	7500	12000	22500	36300

SMG 系列细碎液压圆锥破碎机 SMG Series Tertiary Cone Crushers

主要部件 Main Components

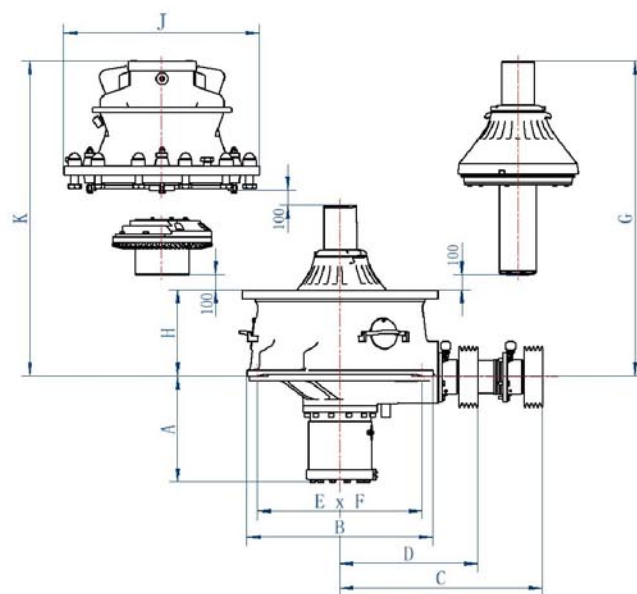
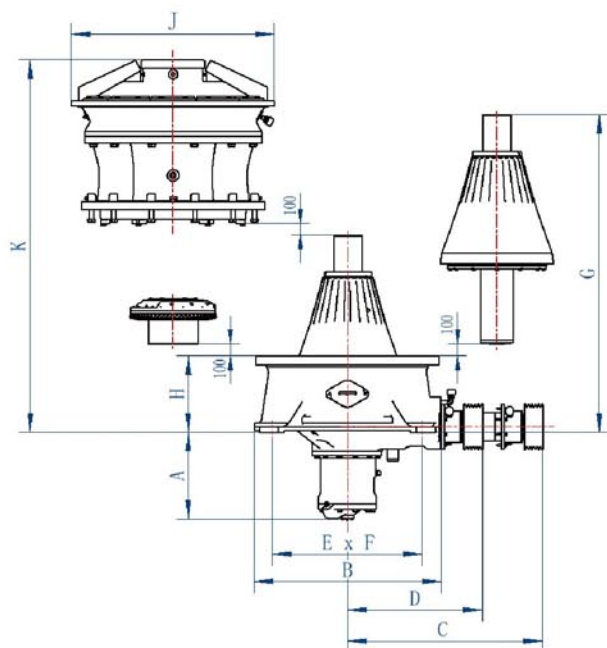


技术参数 Technical Data

型号 Model	SMG100	SMG200	SMG300	SMG500	SMG700	SMG800
电机功率 Moter power (kw)	90	160	250	315	520	600
冲程 Stroke (mm)	16-25	18-40	25-40	25-45	30-50	30-50
维修时最大起重量 Max lift during maintenance (kg)	1650	2850	5150	8600	15600	23000
总重量 Total weight (kg)	5700	9500	17500	28000	53000	75000

SMG 系列液压圆锥破碎机 SMG Series Cone Crushers

拆卸外形尺寸 Clearance Dimensions mm



Dimensions	SMG100S	SMG200S	SMG300S	SMG500S	SMG100	SMG200	SMG300	SMG500	SMG700	SMG800
A	712	734	812	920	712	734	812	920	1090	1200
B	1250	1588	1980	2320	1250	1588	1980	2320	2770	3040
C	1366	1652	2109	2433	1366	1652	2109	2433	2940	3260
D	929	1141	1436	1650	929	1141	1436	1650	1980	2200
E x F	1110x1400	1270x1680	1350x1880	1600x2200	1110x1400	1270x1680	1350x1880	1600x2200	2100x2600	2300x2900
G	2392	2687	3450	3890	2124	2337	2977	3360	4200	4750
H	583	650	843	920	583	650	843	920	1160	1215
J	1450	1720	2000	2420	1320	1550	1980	2320	2820	3120
K	2644	3150	4108	4450	2125	2450	3100	3422	4300	4830

SMG 系列液压圆锥破碎机生产能力

SMG Series Cone Crushers Capacities

型 号 Model	腔型 Cavity	最大给料尺寸 (mm) Max Feeding Size (mm)	紧边排料口及对应的生产能力							CSS (mm) Capacity (t/h)						
			22	25	29	32	35	38	41	44	48	51	54	60	64	70
SMG100S	EC	240	85	88-115	95-135	102-165	110-135	125								
	C	200	70-85	75-110	85-120	95										
SMG200S	EC	360		125	135-175	148-230	155-290	165-310	175-326	180-330	195-300	200-255	210			
	C	300	105	115-145	125-195	130-250	140-270	150-285	160-295	165-260	180					
SMG300S	EC	450					252-310	265-358	285-450	300-532	323-586	338-516	355-463			
	C	400			215-265	225-306	243-320	259-425	272-495	285-456	298-410	310-385				
SMG500S	C	500						290-380	325-410	350-555	365-685	383-753	396-795	432-860	450-785	495-620

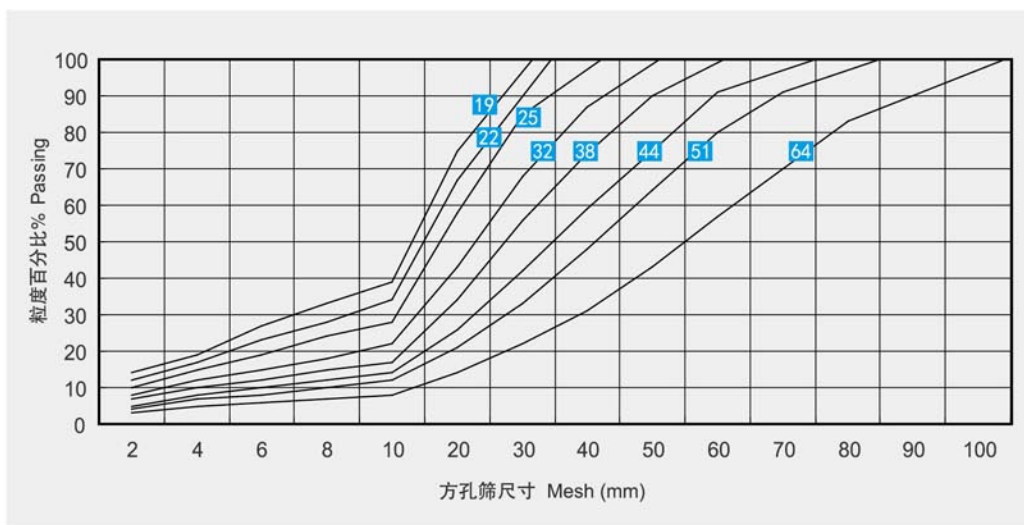
型 号 Model	腔型 Cavity	最大给料尺寸 (mm) Max Feeding Size (mm)	紧边排料口及对应的生产能力								CSS (mm) Capacity (t/h)							
			4	6	8	10	13	16	19	22	25	32	38	44	51	57	64	70
SMG100	EC	150				45-65	52-75	58-90	65-100	70-110	75-116	78-120						
	C	90				40-55	43-78	48-88	52-96	55-103	58-108	65-115						
	M	50		32-50	36-58	38-65	42-68	50										
	F	38	25	27-45	29-50	32-55	35-48	40										
SMG200	EC	200					65-117	72-140	75-152	80-162	85-180	95-206	110-215					
	C	145					58-128	66-132	68-136	72-153	80-168	88-182	92-162					
	M	115				53-85	55-113	62-136	66-148	70-168	75-173	85-160						
	F	70			63	66-102	72-115	76-128	81-142	85-126	95							
SMG300	EC	215						116-210	125-285	136-303	148-325	172-350	182-396	195-368				
	C	175					105-186	112-206	120-296	132-325	143-331	165-359	174-343	186-311				
	M	110					124-195	138-264	146-293	155-310	164-330	175-295	195-255					
	F	70				95-165	108-187	121-203	132-224	141-238	150-252	162-223						
SMG500	EC	275						168-263	186-315	205-396	223-452	248-527	272-589	290-638	310-489			
	C	215						162-285	175-323	195-428	212-486	235-554	253-620	278-530	298-365			
	MC	175						152-275	166-361	180-415	198-463	215-520	235-486	265-350				
	M	135						185-302	198-396	214-453	232-495	265-472	290-395					
	F	85					175-258	195-309	213-366	235-384	256-416	285-423	325					
SMG700	EC	300								430-541	458-781	522-891	577-981	632-1078	696-1188	751-1282	815-1391	870-1225
	C	240								392-552	418-672	445-833	507-950	561-1050	614-1149	676-1266	730-1366	791-1317
	MC	195								367-415	392-641	417-789	475-900	525-995	575-1089	634-1199	683-1295	742-1265
	M	155								386-529	413-682	439-786	501-896	553-991	606-1085	668-1195	720-1280	782-1173
	F	90					350	372-586	400-655	427-699	454-744	516-848	571-797	626-721				
SMG800	EC	370									463-697	528-1020	584-1199	639-1314	704-1447	759-1561	824-1695	880-1809
	C	330									521-733	594-1047	657-1158	720-1268	792-1397	855-1507	928-1635	991-1371
	MC	260								522	556-790	634-1012	701-1198	767-1311	845-1445	912-1558	989-1353	1080
	M	195								550	566-939	646-1070	713-1183	782-1296	861-1427	928-1464	998-1254	
	F	100					387-477	418-663	449-712	479-760	510-809	581-863	642-822					

破碎机腔型 Crushers Cavities: EC = Extra Coarse 特粗; C= Coarse 粗; MC= Medium Coarse 中粗; M= Medium 中; F= Fine 细

注: 上述生产能力是在破碎物料堆比重为 1.6t/m³ 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: Capacity is total tons per hour passing through crusher at open circuit when bulk density of feeding is 1.6t/m³. Capacities are relative to physics character and type of feeding, feeding size and composition.

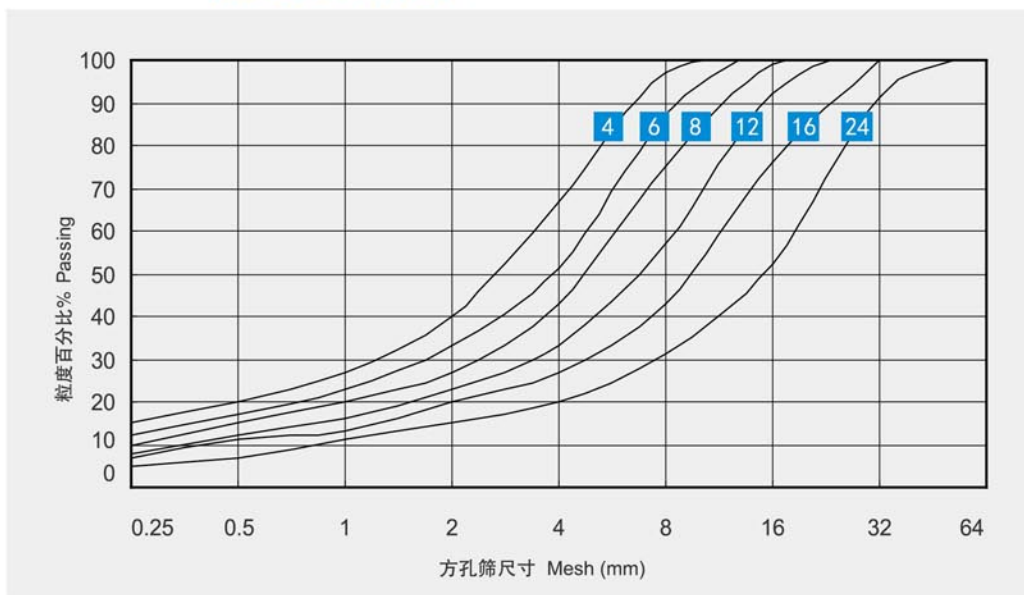
SMG 系列中碎液压圆锥破碎机 SMG Series Secondary Cone Crushers

粒度分布曲线 Gradation Curves



SMG 系列细碎液压圆锥破碎机 SMG Series Tertiary Cone Crushers

粒度分布曲线 Gradation Curves



表中粒度与给料粒度、破碎腔型、含水量、物料堆比重、含泥量等因素有关
The shown gradation depends on feed gradation, crushing cavity, moisture, material bulk density, and material mud content.

圆锥破碎机的生产能力表可作为正常发挥 SMG 系列破碎机生产能力的参照。破碎机是生产线中的一个组成部分。因此它的性能受给料机、皮带机、振动筛、及料仓是否正确选择和操作影响。

The capacity chart can be referred when the SMG cone crusher works in the normal condition. The SMG cone crusher is one part of the whole crushing production line, so its performance will be affected by whether the vibrating feeder, belt conveyor, vibrating screen, electric motor, drive part and hopper are suitable or not.

以下因素可提高破碎机的生产能力和性能

Following factors can enhance the capacity and performance of the cone crusher.

- ◎ 针对所破碎的物料正确的选择破碎腔；
Choosing the suitable cavity based on the material to be crushed.
- ◎ 给料粒度配比适当；
Feeding size is right appropriate.
- ◎ 在破碎腔 360° 范围内给料分布均匀；
Feeding is even.
- ◎ 自动控制装置；
Automation control device is adopted.
- ◎ 破碎机排料区通畅；
The discharging area is enough.
- ◎ 输送带的规格与破碎机的最大处理能力相适应；
The specification of belt conveyor matches with the max capacity of the cone crusher.
- ◎ 适当的选择预先筛分和闭路筛分的筛子规格。
The specification of vibrating screen is suitable in pre-screening stage and closed screening stage.

以下因素会降低破碎机的生产能力

Following factors will reduce capacity of cone crusher.

- 给料中小于排料口的细料超过破碎机生产能力的 10%；
Fine material that is less than discharging opening contained in the feeding material is more than 10% of production capacity of the cone crusher.
- 给料中含有粘性物料；
The sticky material is contained in the feeding material.
- 缺少给料控制；
Lack of feeding control.
- 沿破碎腔周围的给料分布不均匀；
The feeding is not even.
- 系统筛分能力不足；
The vibrating screen is not suitable.
- 破碎机排料区不通畅；
The discharging area of the machine is less enough.
- 物料过硬或过于坚韧。
Feed material is too hard or too tough.



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