SANME

山美

SMG 系列
液压圆锥破碎机

SMG Series
Cone Crushers

上海山美环保装备股份有限公司
(原上海山美重型矿山机械股份有限公司)
SHANGHAI SANME MINING MACHINERY CORP., LTD.
(中德合资控股)
(Sino-German JV Holding)

Sino-German JV Holding
中德合资控股

SMG Series Cone Crushers
SMG系列液压圆锥破碎机

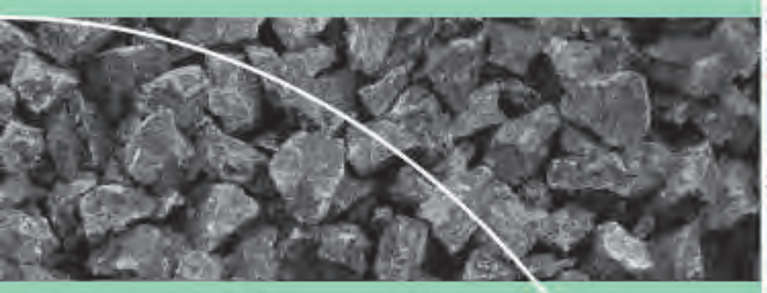
SMG100S	SMG100
SMG200S	SMG200
SMG300S	SMG300
SMG500S	SMG500
	SMG700
	SMG800

SMG series cone crusher is an advanced technology of cone crusher, 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.

SMG 系列液压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。

山美 SANME

Features and Benefits
主要特点和优点



1 Optimized cavity, higher capacity and better quality

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.

优化的腔型 更高的产量 更佳的产品质量

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，在经历理论的分析和实践的检验情况下，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，可以较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。

2 Resistant wear part consumption and low operating cost

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.

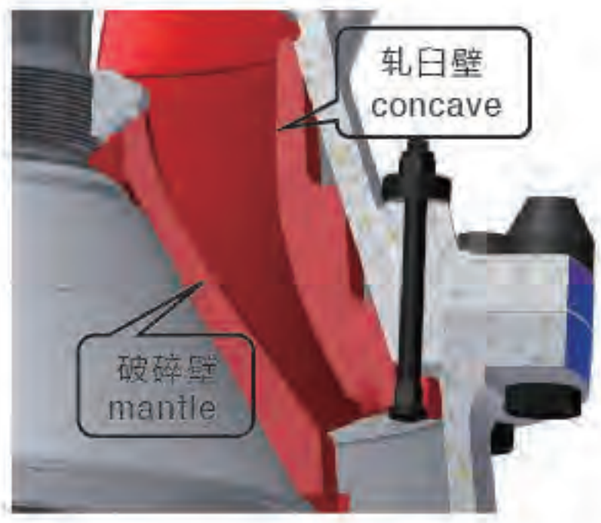
易损件消耗少 运行成本低

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。

Features and Benefits
主要特点和优点

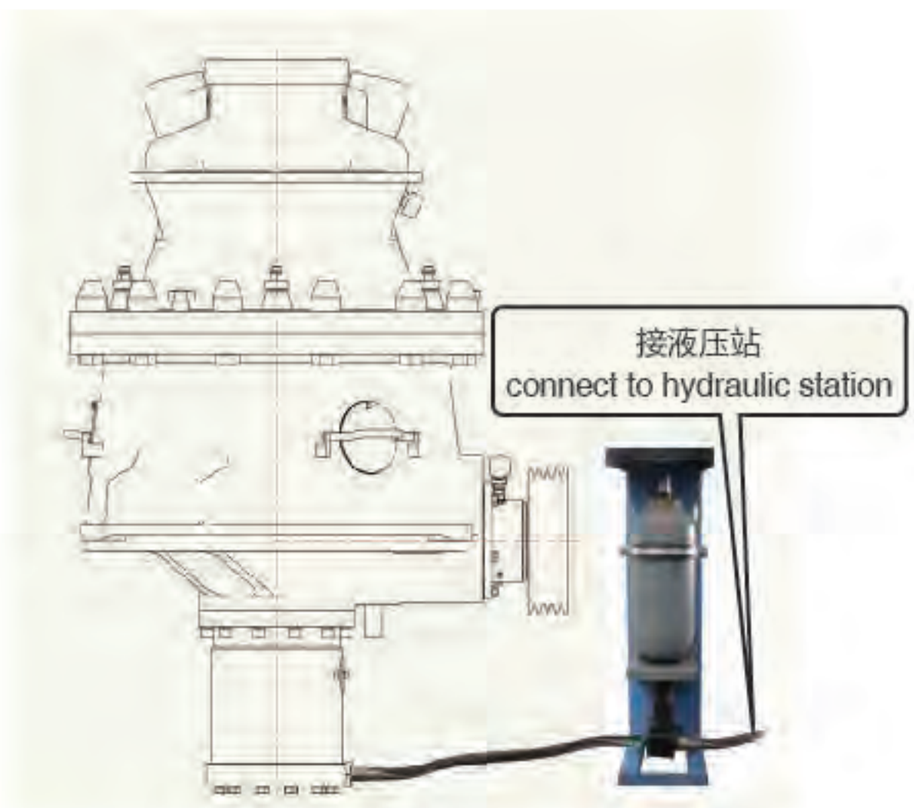
3 Easy cavities exchange
Due to the same body structure, we can get different crushing cavity by changing liner plate to fulfill the various processing for coarse and fine crushing.

粗细破碎转换方便
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。



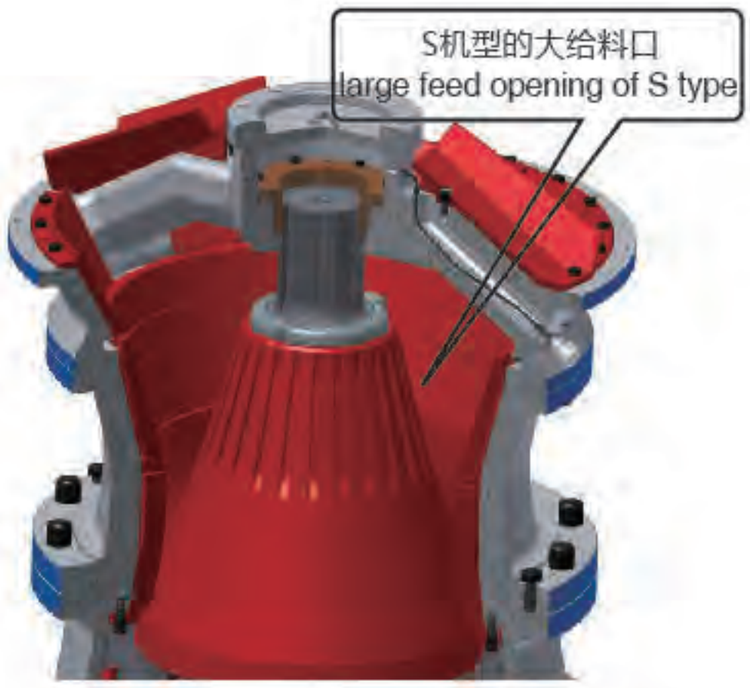
4 Advanced hydraulic technology offers easy operation and maintenance
Due to adopting advanced hydraulic technology, overload protection can effectively be realized, which simplify the structure of crusher and reduces its weight. When some unbreakable foreign materials enter the crushing cavity, the 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.

专业的液压技术使操作简单和维修方便
由于采用了专业的液压技术，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，较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。



5 Large feeding opening design
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.

大给料口设计
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。

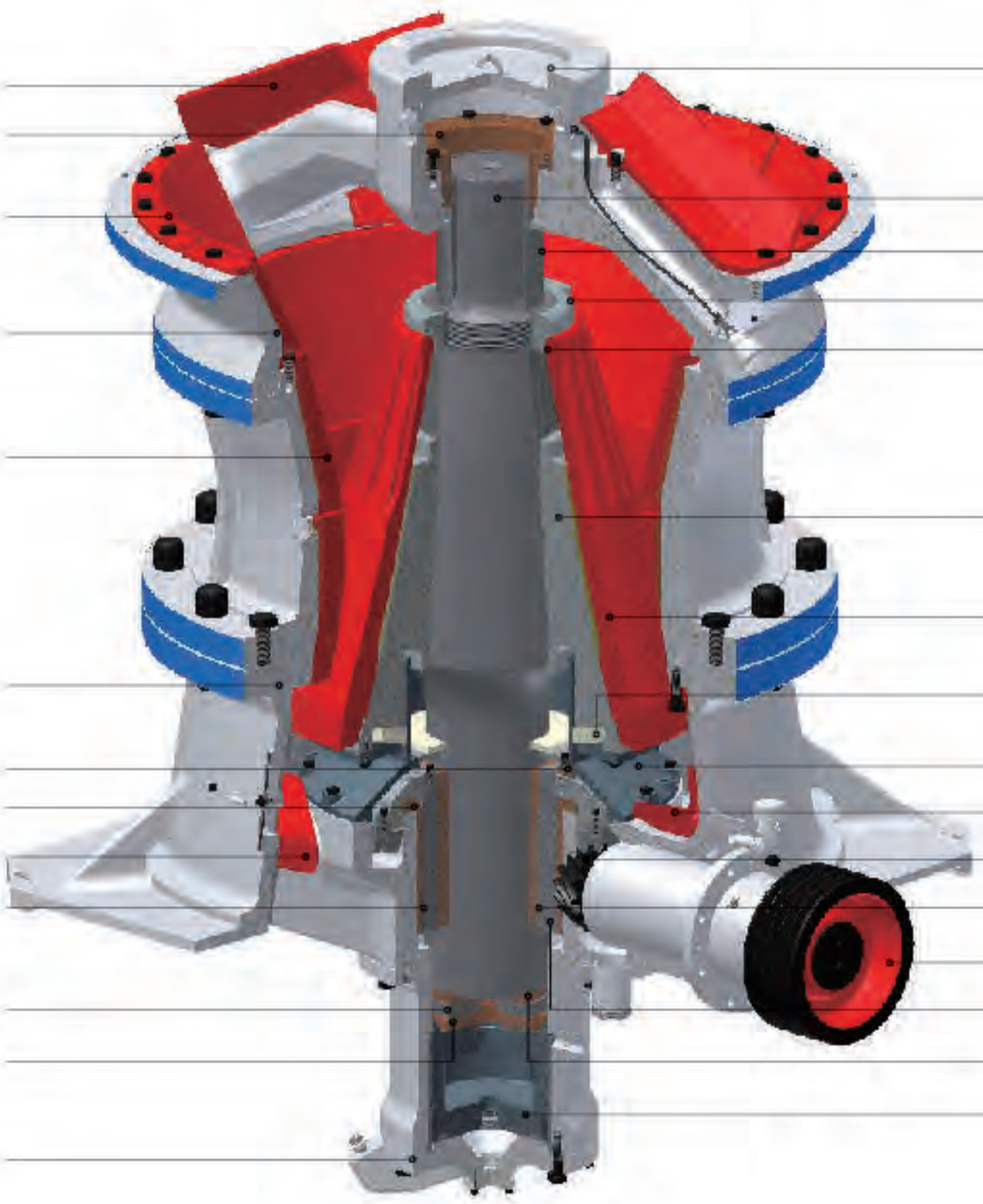


SANME

SMG Series Secondary Cone Crushers

SMG系列中碎液压圆锥破碎机

主要部件 Main Components



Uper Franme Protectio 横梁衬板
Bushing 衬套
Uper Frame Lining 上机架衬板
Uper Frame 上机架
Concave 轧臼壁
Lower Frame 下机架
Top Plate 上推力板
Bottom Plate 下推力板
Frame Protection 筋护板
Copper Frame Bushing 机架铜套
Socket Liner 碗形瓦
Top Bearing 下推力轴承
Cylinder Cover 油缸盖

分配盘 Distribute Plate
主轴 Main Shaft
护套 Protecting Sleeve
锁紧螺母 Locked Nut
压环 Verge Ring
躯体 Main Body
破碎壁 Mantle
密封环 Sealing Ring
防尘护盖 Dust Cover
护板 Protecting Plate
大小齿轮 Pinion
主轴衬套 Eccentric Bushing
大皮带轮 Pulleys
偏心套 Eccentric
上推力轴承 Thrust Bearing
活塞 Piston

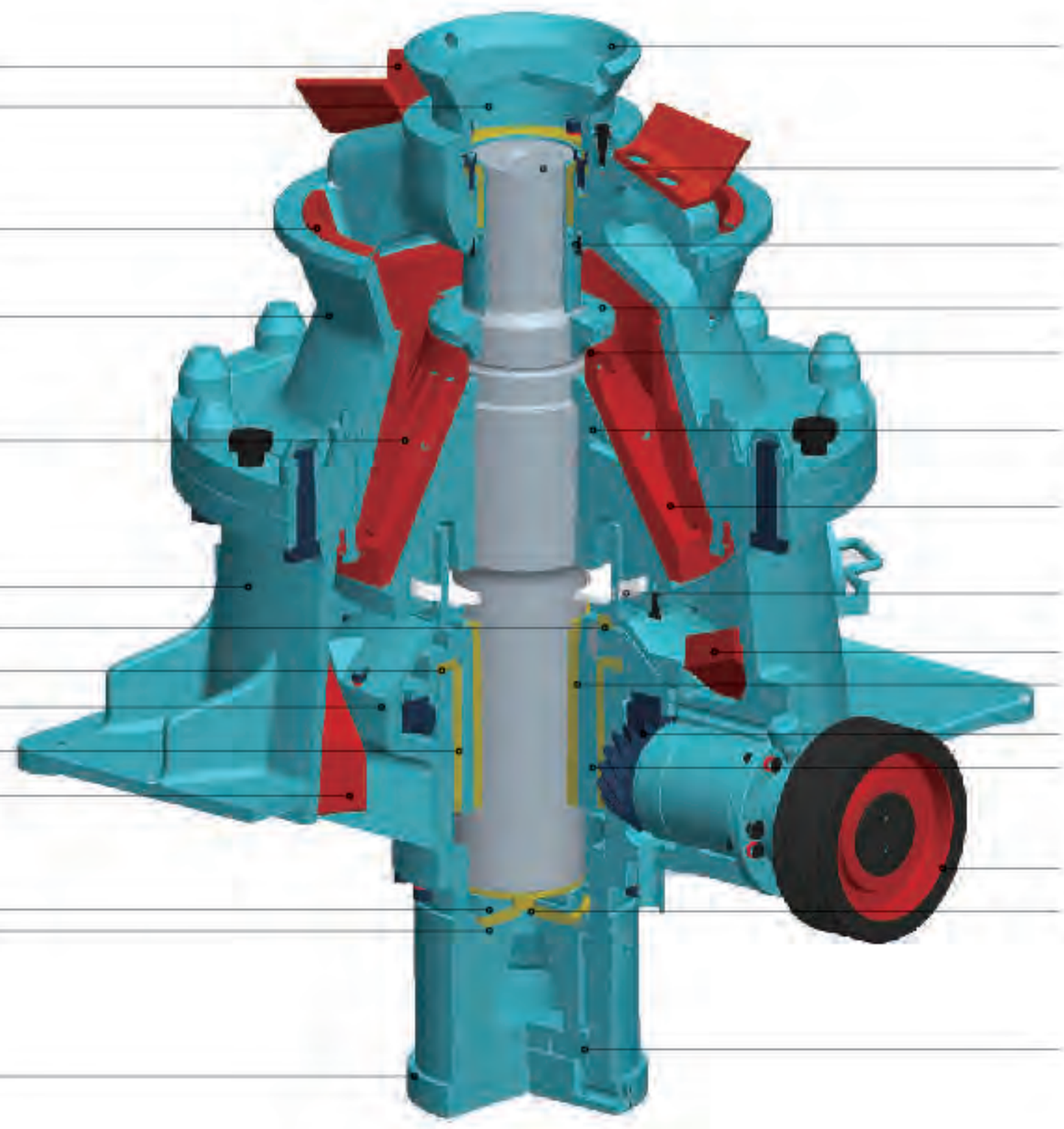
Technical Data 设备技术参数

型号 Model	SMG100S	SMG200S	SMG300S	SMG500S
电机功率 Moter power (kw)	90	160	250	315
最大进料尺寸 Max Feeding Size(mm)	240	360	450	500
生产能力 Capacities(t/h)	70-165	105-330	215-586	290-860
总重量 Total weight (kg)	7500	12000	22500	36300

Sino-German JV Holding
中德合资控股

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

主要部件 Main Components



Technical Data 设备技术参数

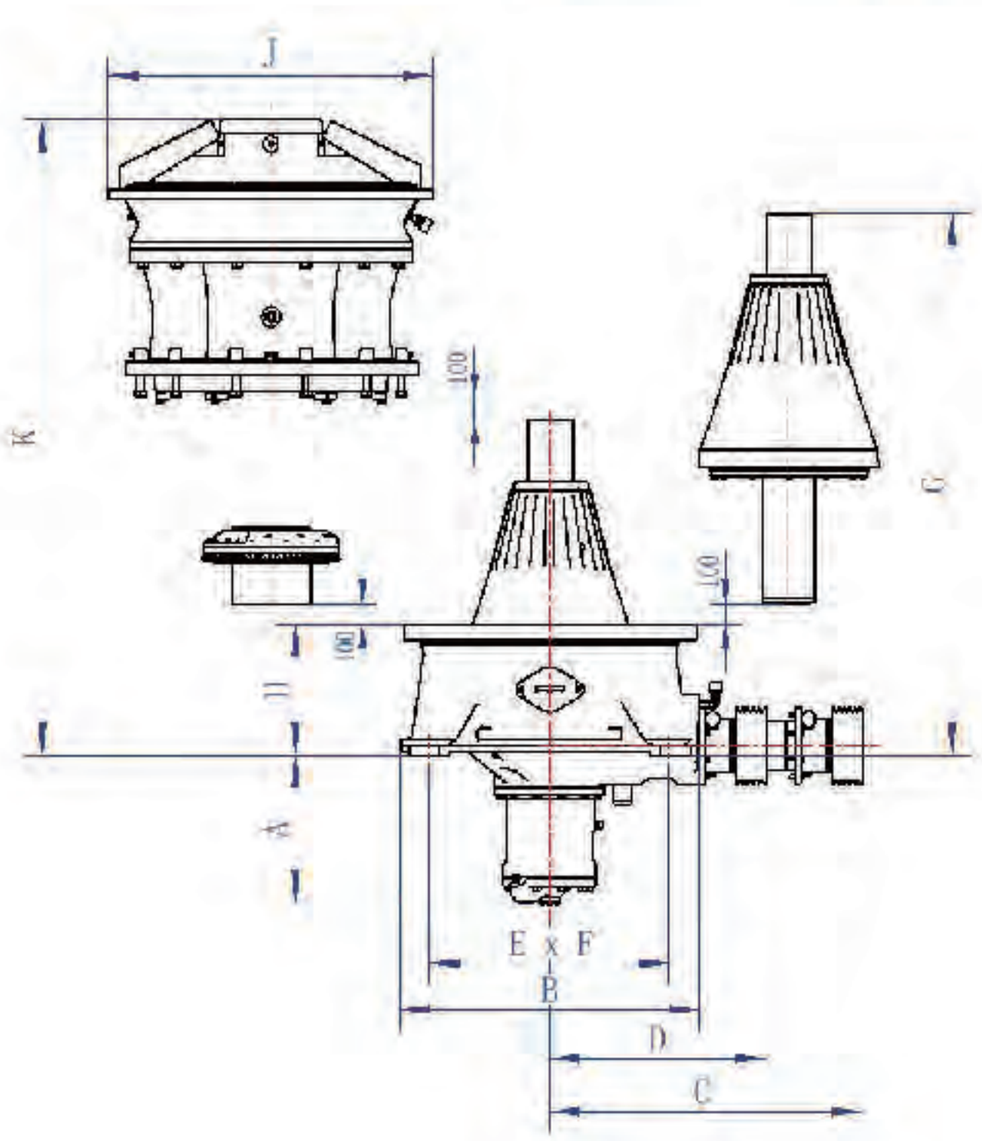
型号 Model	SMG100	SMG200	SMG300	SMG500	SMG700	SMG800
电机功率 Moter power (kw)	90	160	250	315	500	750
最大进料尺寸 Max Feeding Size(mm)	150	200	215	275	300	370
生产能力 Capacities(t/h)	25-120	63-215	95-396	175-638	350-1502	241-2185
总重量 Total weight (kg)	5700	9500	17500	28000	53000	79000

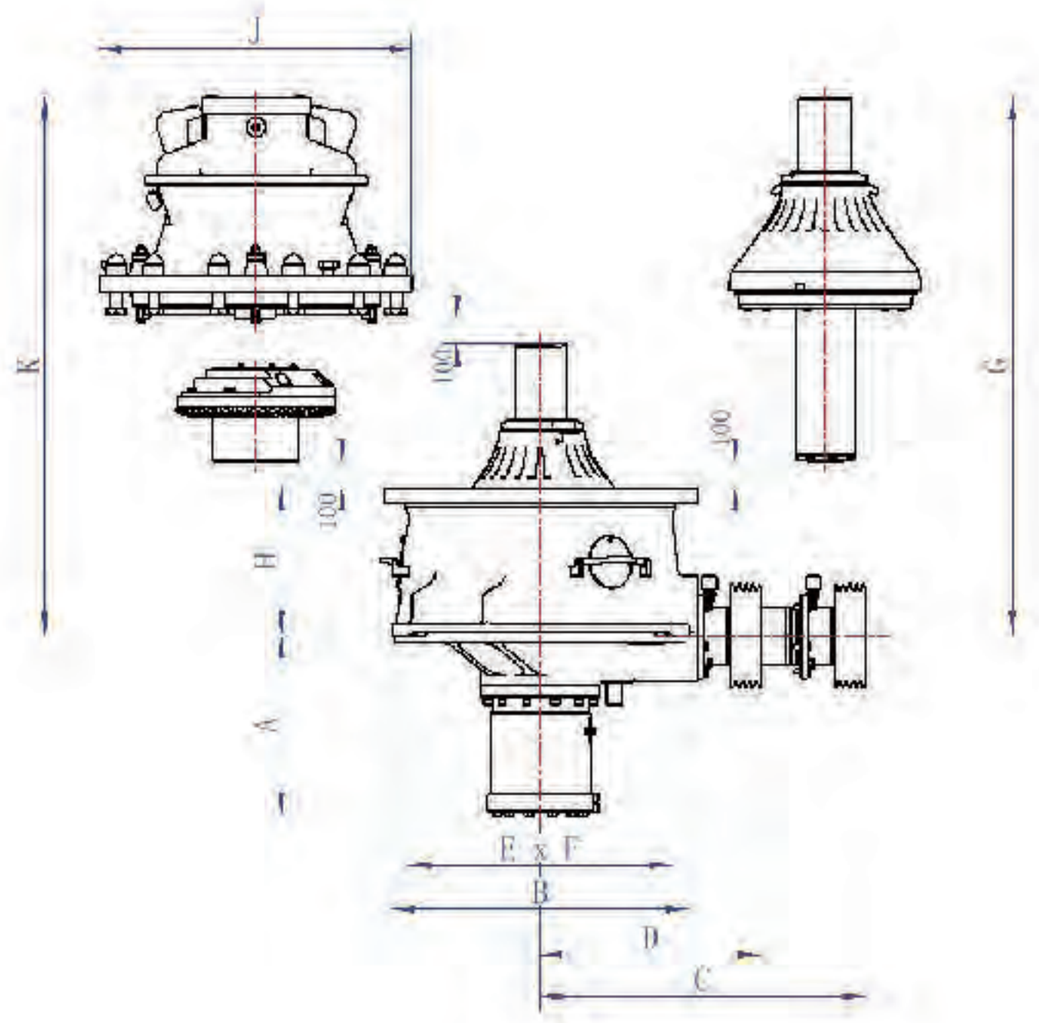
SANME

SMG Series Cone Crushers

SMG系列液压圆锥破碎机

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
ExF	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

Sino-German JV Holding
中德合资控股

SMG Series Cone Crushers Capacities
SMG系列液压圆锥破碎机生产能力

型 号 Model	腔型 Cavity	最大给料尺寸 (mm) Max Feeding Size (mm)	22	25	29	32	35	38	41
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
	C	300	105	115-145	125-195	130-250	140-270	150-285	160-295
SMG300S	EC	450					252-310	265-358	285-450
	C	400			215-265	225-306	243-320	259-425	272-495
SMG500S	C	500						290-380	325-410

型 号 Model	腔型 Cavity	最大给料尺寸 (mm) Max Feeding Size (mm)	条边排料口及对应的生产能力 4	6	8	10	13	16	19	22
SMG100	EC	150				45-65	52-75	58-90	65-100	70-110
	C	90				40-55	43-78	48-88	52-96	55-103
	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
	C	145					58-128	66-132	68-136	72-153
	M	115				53-85	55-113	62-136	66-148	70-168
	F	70			63	66-102	72-115	76-128	81-142	85-126
SMG300	EC	215						116-210	125-285	136-303
	C	175					105-186	112-206	120-296	132-325
	M	110					124-195	138-264	146-293	155-310
	F	70				95-165	108-187	121-203	132-224	141-238
SMG500	EC	275						168-263	186-315	205-396
	C	215						162-285	175-323	195-428
	MC	175						152-275	166-361	180-415
	M	135						185-302	198-396	214-453
	F	85					175-258	195-309	213-366	235-384
SMG700	EC	300								441-581
	C	240							399	425-628
	MC	195							372-433	398-715
	M	155							394-556	421-779
	F	90					350-379	378-649	408-697	436-745
SMG800	EC	370								
	C	330								391
	MC	300							334-507	358-845
	M	230						260-304	280-663	300-944
	F	120					241-281	261-662	280-831	300-887

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.

SANME

44	48	51	54	60	64	70
180-330	195-300	200-255	210			
165-260	180					
300-532	323-586	338-516	355-463			
285-456	298-410	310-385				
350-555	365-685	383-753	396-795	432-860	450-785	495-620

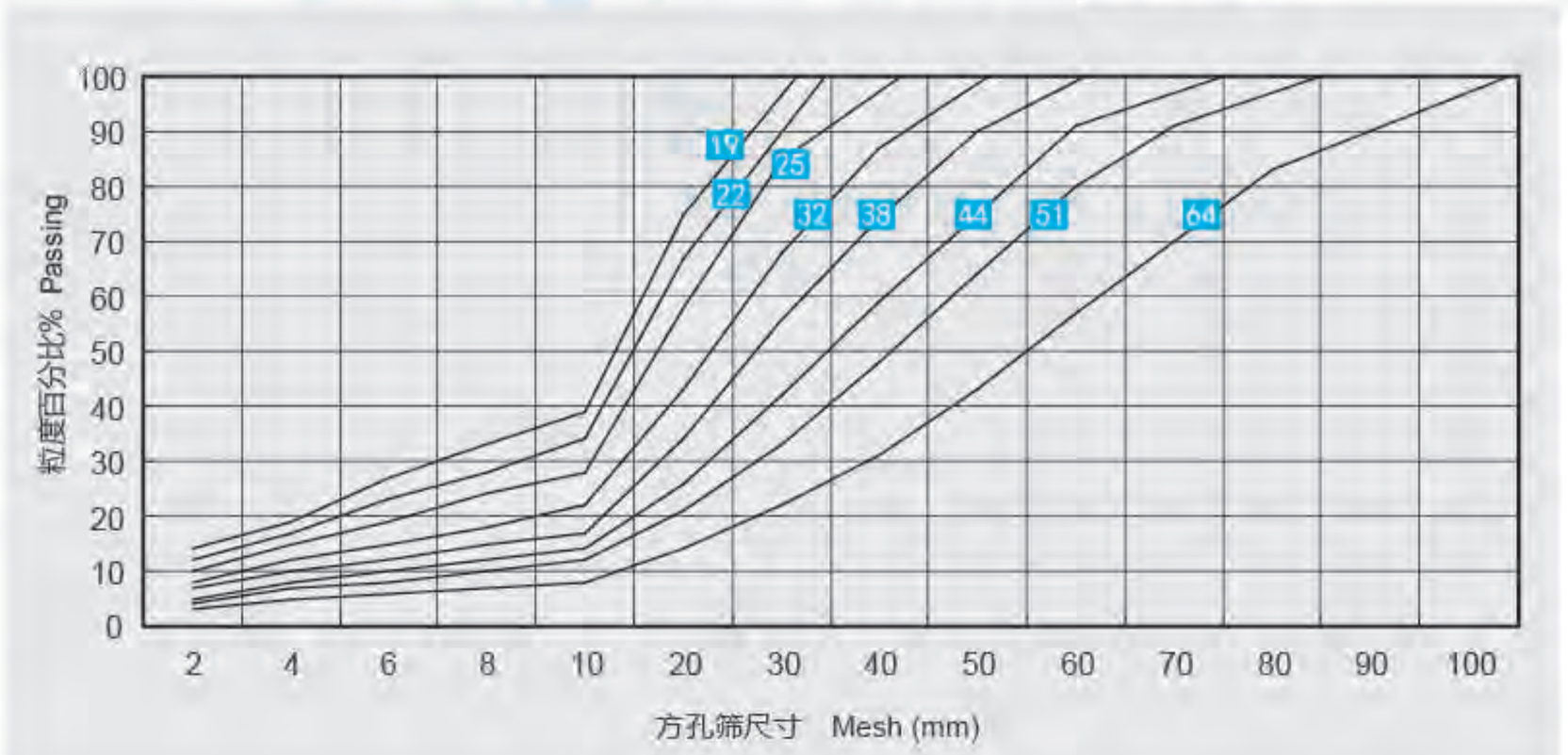
CSS (mm) Capacity (t/h)

25	32	38	44	51	57	64	70
75-116	78-120						
58-108	65-115						
85-180	95-206	110-215					
80-168	88-182	92-162					
75-173	85-160						
95							
148-325	172-350	182-396	195-368				
143-331	165-359	174-343	186-311				
164-330	175-295	195-255					
150-252	162-223						
223-452	248-527	272-589	290-638	310-489			
212-486	235-554	253-620	278-530	298-365			
198-463	215-520	235-486	265-350				
232-495	265-472	290-395					
256-416	285-423	325					
470-841	537-961	592-1061	651-1165	717-1283	774-1385	841-1502	900-1325
453-884	518-1011	573-1117	629-1225	692-1350	750-1458	8120-1453	870-1280
424-829	484-946	537-1048	590-1149	650-1264	700-1365	761-1362	863-1198
448-828	510-944	565-1046	621-1148	684-1283	740-1366	803-1241	858-1091
464-792	527-904	586-851	640-709				
386-451	442-1302	488-1438	535-1576	590-1737	639-1875	694-2035	741-2173
415-767	475-1397	523-1544	575-1692	636-1867	685-2012	746-2185	795-2133
381-1225	438-1397	482-1544	529-1692	583-1864	630-2012	683-1998	795-1731
319-1098	366-1253	403-1386	442-1518	490-1672	528-1806	572-1792	712-1558
319-944	366-1078	403-1157	442-1043	490-819	528-617		

Sino-German JV Holding
中德合资控股

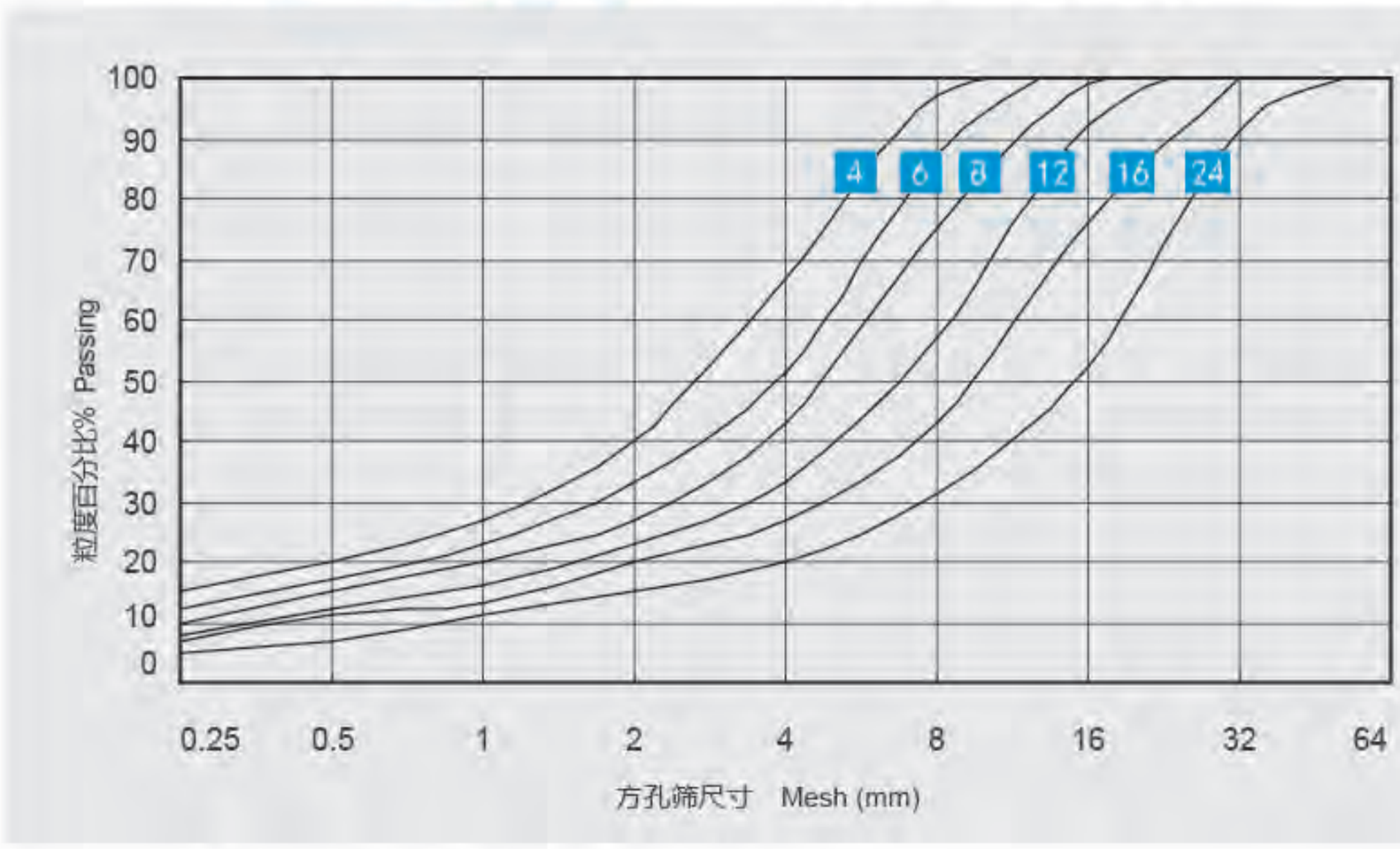
SMG Series Secondary Cone Crushers
SMG系列中碎液压圆锥破碎机

粒度分布曲线 Gradation Curves



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

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.

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.

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。

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

以下因素可提高破碎机的生产能力和性能

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

Following factors will reduce capacity of cone crusher.

以下因素会降低破碎机的生产能力

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

上海山美环保装备股份有限公司

(原上海山美重型矿山机械股份有限公司)

SHANGHAI SANME MINING MACHINERY CORP., LTD.

(中德合资控股)

(Sino-German JV Holding)

山美股份官方微信

SANME-04C | SMG | 2018-07 | 5000

地址：上海市奉贤区青村镇奉村路 258 号
邮编：201414
电话：021-5759 1166　5759 1188
传真：021-5756 6188　5820 0089
网址：www.shsmzj.com
电邮：info@sanmecorp.com

Add: No.258, Fengcun Road, Qingcun County, Fengxian District, Shanghai 201414, China
Tel: +86-21-5712 1166　5759 1188
Fax: +86-21-5756 6188　5820 0089
Website: www.sanmecrusher.com
E-mail: sales@sanmecorp.com

免费热线：400-921-5566
售后专线：021-5712 7766

Free Hotline: 400-921-5566
Service Center: +86-21-5712 7766

- 我们的产品在不断的更新和改进中，我们保留在未事先告知用户的情况下，更改参数及设计的权力。
  Our products are constantly updated and improved, we reserve the right to change parameters and design without advance notification of customers.
- 照片中产品外观颜色与实际机型存在差异，颜色标准以实物为准。
  If there are any discrepancy and difference between color of product appearance and actual machine type in the picture, colcr standard is subject to actual object.
- 本手册中的配置不一定是出厂标准配置，购买时请详细咨询我们。
  Specifications and design in the brpchures are not always the standard. Please consult us particularly when purchasing.