

YIFAN

SMH Series Cone Crusher



Leading crushing and screening equipment manufacturer in China

Zhengzhou YiFan Machinery Co.,Ltd(the share-holder is Shande Technology (Beijing) Co., Ltd) has its headquarter in Beijing. It is a famous manufacturer of crushing and screening equipment and provides series stone crusher and crushing equipment for customers.



YIFAN

ZHENGZHOU YIFAN MACHINERY CO.,LTD

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SMH Series Hydraulic Cone Crusher gets to world advanced level, is designed and made through absorbing world advanced crushing technology. It is widely used in metallurgical, architectural, water and electricity, traffic, chemical, architectural material industries, and is suitable for crushing varies of mid hard and above mid hard ores and rocks.



5. Thin oil lubrication makes the life time increased.

--Unique design of thin oil lubrication system prolongs lifetime of the crusher, high performance and not touchable labyrinth airproof part blocks off the dust and remove the common disorders like the mixture of oil and water in spring cone crusher.

6. Manifold crushing cavity, flexible application, good adaptability.

--It only needs to 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 need.

7. Easy maintenance and operation.

-- All parts of SMH Hydraulic Cone Crusher can be assembled, disassembled and repaired from the top and side part, including the fixed cone and movable cone. For the changing no need to disassemble the crusher body and fasten the bolts. Hydraulic motor makes the performance of crusher better.

8. It can provide customers a higher capacity, better product shape, and easy to be operated.

Features and Benefits

1. Great crushing ratio and high production efficiency.

-- The connection of higher turning speed and stroke greatly improves the rated power and passing capacity and increases the crushing ratio and capacity. This kind hydraulic cone crusher combines crushing stroke, crushing speed and crushing cavity in a perfect way. The capacity of SMH hydraulic cone crusher is 35%--60% higher than old-fashioned spring cone crusher.

2. Less wearing parts consumption, low operation cost.

-- Advanced crushing principle and technical data, reliable operation and low operation cost. All parts of the crusher have anti-wearing protection, which can reduce the maintenance costs to minimum and make the life time of spare parts increased by 30%.

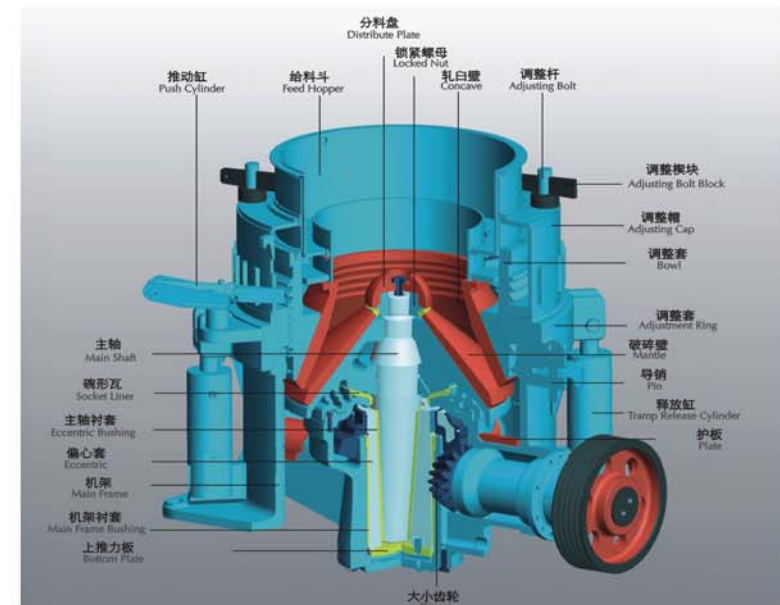
3. Laminating crushing and better finished product shape.

-- The crusher adopts between-layer pressuring crushing principal and the suited turning speed, not the traditional single particle crushing principal. The special crushing cavity can makes the crusher crush materials selectively, thus the proportion of fine product and products of cubic shape be increased distinctly and products of lump size decreased by a large extent.

4. Hydraulic protection and hydraulic cavity clearing, high automatization and less stop production and repairing time.

-- The discharge opening adjusted by hydraulic and overload protection makes performance of the crusher increased by a large extent, the maintenance and operation easier, the repairing time shorter.; the bidirectional metal releasing hydraulic vat makes slab pass through crushing cavity; the crusher can discharges materials automatically when the hydraulic works under the conditions of iron passing and instantaneous overloading, thus there is no trouble of stopping the crusher to discharge materials by hand.

Main Components



Technical Date

Model	Max Feeding Size(mm)	Discharge Range(mm)	Motor Power(kw)	Capacity(t/h)—open circuit, closed discharge(mm)													
				9	13	16	19	22	26	32	38	51	63				
SMH120C	160	22-32	75-90					120	130	150							
SMH120M	130	13-26		65	85	100	120	130									
SMH120F	50	9-19		40	60	80	90										
SMH180C	180	22-32	132-160					185	195	215							
SMH180M	140	13-32		90	115	135	160	180	200								
SMH180F	60	9-22		60	80	100	120	140									
SMH250C	260	26-51	160-220						250	290	340	395					
SMH250M	150	16-38		125	140	165	220	275	330								
SMH250F	80	9-22		70	90	115	130	150									
SMH350EC	315	38-64	250-280										555	649	766		
SMH350C	230	26-64					266	366	430	468	629	657					
SMH350M	205	22-52					234	299	348	393	451						
SMH350F	180	16-38			188	212		267	305	337							
SMH550EC	425	38-63	400										960	1300	1495		
SMH550C	334	31-63								870	925	1200	1390				
SMH550M	303	25-51							665	800	885	1095					
SMH550F	253	19-38				415	445	545	675	895							

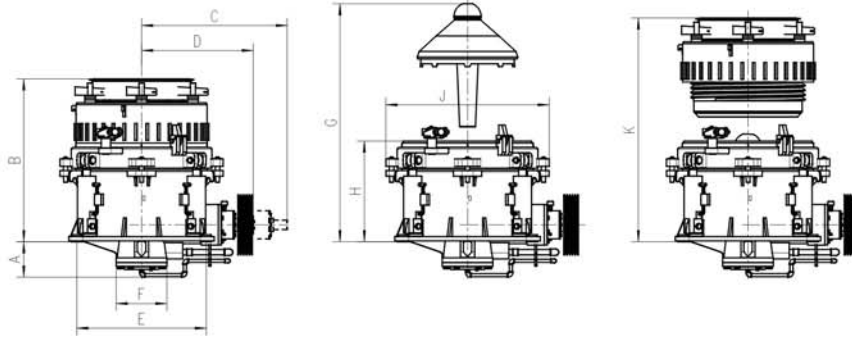


Note: The capacity is total tons per hour passing through crusher at open circuit when crushing mid-hard material and bulk density with $1.6 \times 10^3 \text{ kg/m}^3$. Capacities are relative to physical and type of feeding, feeding size and composition and so on



Overall Dimensions

Clearance Dimensions and Weight



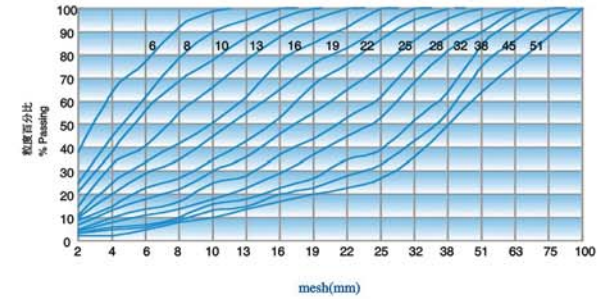
Technical Data

拆卸外形尺寸和重量 Clearance Dimensions and Weight	单位 Unit	破碎机规格 Crusher Specifications					
		SMH120	SMH180	SMH250	SMH350	SMH550	
机架底面至底部油管最低点 Distance between rack bottom and oil pipeline at the bottom	A	mm	377	263	593	369	1016
机架底面至给料斗顶部 Distance between rack bottom and hopper top	B	mm	1737	1810	2119	2438	3301
拆卸传动轴所需水平空间 Horizontal space at the time of drive shaft disassembling	C	mm	1773	1833	2396	2442	4308
破碎机中心线至传动轴外端面 Distance between centre line of crusher and outside end surface of drive shaft	D	mm	1191	1191	1566	1712	2968
地脚螺栓位置尺寸 Size of bolt position	E×E	mm	1380	1380	1766	1766	2490
底盖直径 Diameter of bottom cap	F	mm	540	400	686	520	920
拆卸主轴所需高度空间 Vertical space at the time of main axis disassembling	G	mm	2538	2233	3353	3126	5326
机架底面至支撑套顶部 Distance between rack bottom and top of supporting ring	H	mm	1074	1147	1324	1586	2122
支撑套最大直径 Max diameter of supporting ring	J	mm	1740	1740	2258	2340	3721
拆卸调整套所需高度空间 Vertical space at the time of adjustment set disassembling	K	mm	2387	2460	2937	3028	4030
破碎机总重 Total Weight		kg	12500	13500	24200	28800	105062

Product Gradation Table (%passing through square mesh depending on the setting)

筛孔 mesh / 筛口 c.s.s.	6	8	10	13	16	19	22	25	28	32	38	45	51
2	38	25	21	15	11	10	9	7	5	4	3	3	2
4	64	45	38	33	25	20	15	13	10	8	6	5	2
6	77	62	56	41	34	29	23	18	14	11	7	6	5
8	92	79	69	55	42	35	27	22	17	14	10	9	8
10	99	90	78	66	51	45	35	30	25	18	16	13	10
13	100	95	88	78	62	55	43	36	28	23	18	15	14
16		100	96	88	77	65	53	46	37	29	23	20	17
19			100	95	85	76	67	55	44	37	27	23	20
22				100	92	83	76	65	53	45	35	28	23
25					100	92	87	75	62	53	39	33	27
32						100	95	86	78	68	52	43	36
38							100	96	88	82	64	55	50
51								100	96	90	84	75	64
63									100	99	95	86	76
75										100	100	97	88
100												100	100

Gradation Curves



Note: The gradation shown are depend on the feed gradation, the crushing chamber, the material density, the material mud content, its moisture and its crushability.



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