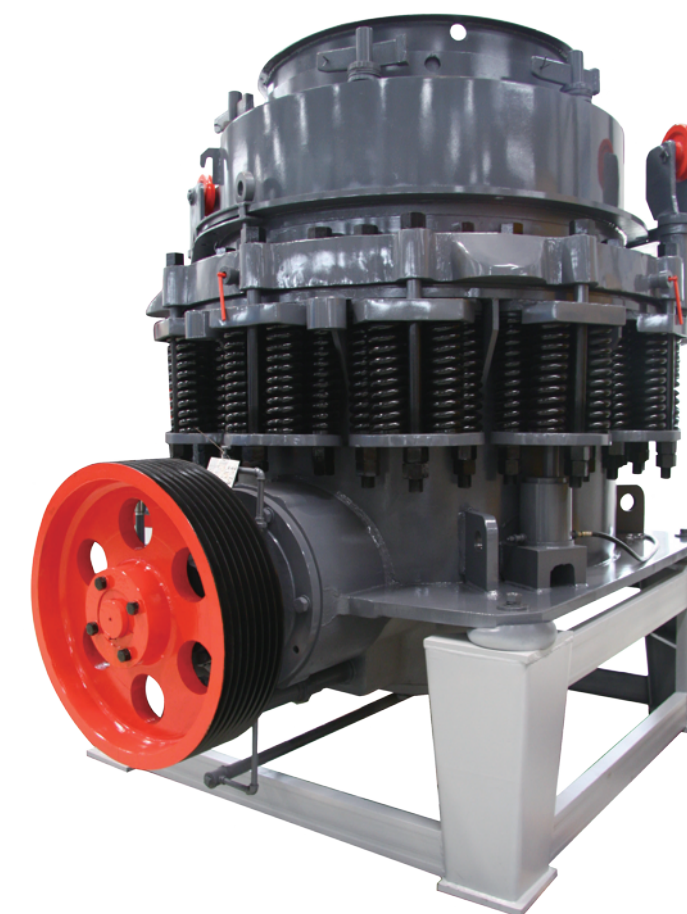




西芝圆锥破碎机满足您所有的破碎要求
Zenith Cone Crusher-Fulfilling all your Crushing Needs



S Series Cone Crusher S系列圆锥破碎机



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S系列圆锥破碎机

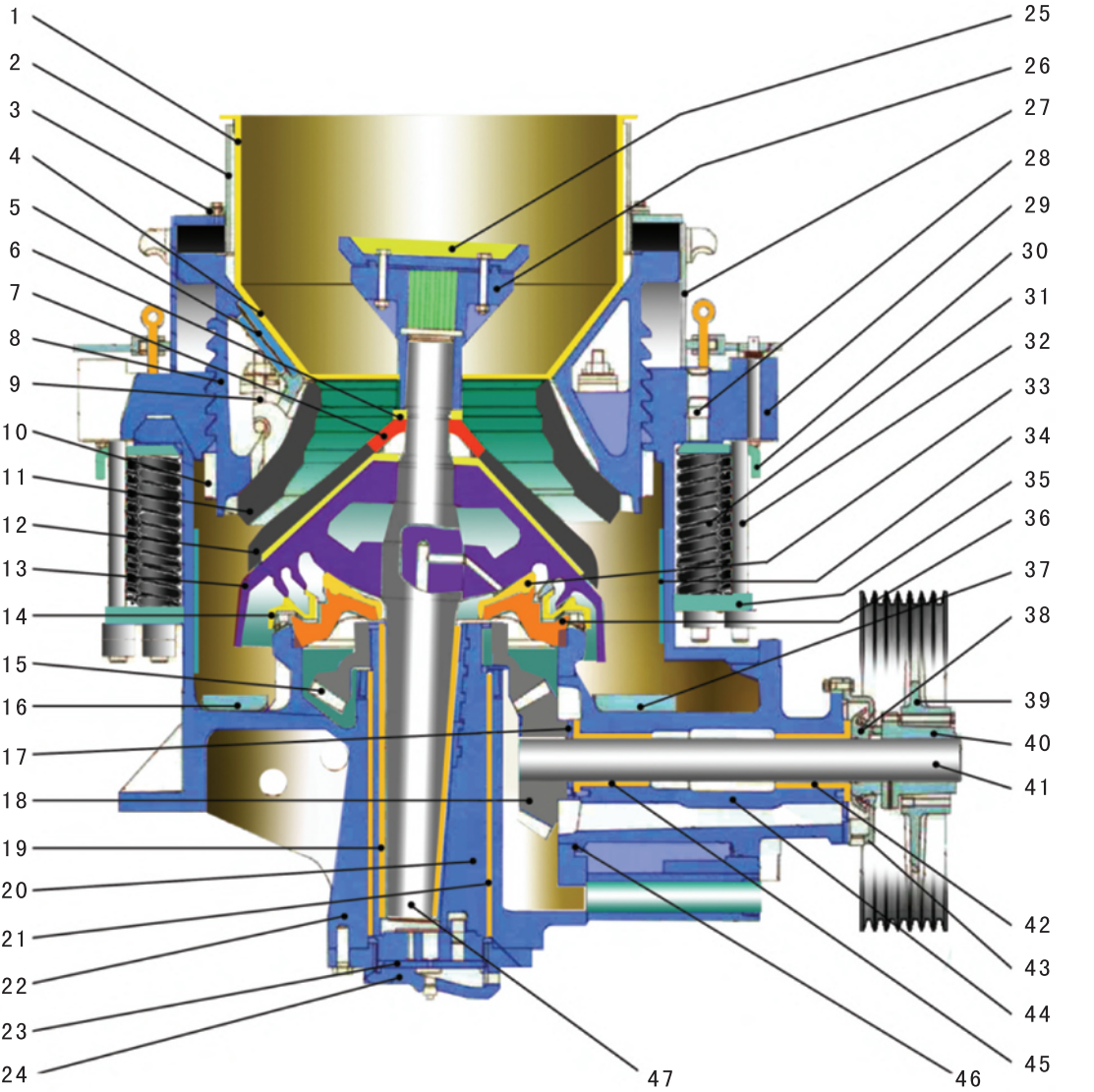
S Series Cone Crusher

产品简介：

弹簧圆锥破碎机是世界上最早出现的圆锥破碎机，具有结构可靠，生产效率高，调整方便，使用经济等特点，在此基础上西芝公司研发部与技术部积二十余年弹簧圆锥破碎机生产经验，吸纳了美国、德国等国内外圆锥破碎机设备的技术精华，经过多次创新、测试、优化改进后推出S系列圆锥破碎机，结构设计更加紧凑合理，破碎机尺寸、重量均较之传统的弹簧圆锥破碎机有了明显降低；关键零件选择了特殊材料制造，大大提升了工作性能；且该产品破碎腔型可根据实际需要进行调节，显著提高了产品的使用适应性；产品使用中各项技术指标均较之传统的弹簧圆锥破碎机有了明显的提升，在制造、安装、使用、维护等方面都有卓越表现，大大提升了品味和附加值，经济效益十分显著，是替换传统弹簧圆锥破碎机的理想设备。

Brief introduction of the product:

Spring cone crusher is the earliest cone crusher appeared in the world, which features of reliable structure, high productivity, convenient adjustment, low operation cost, etc. Based on 20 years' manufacturing experiences of spring cone crusher, absorbing technical pith of cone crushing equipment from USA and Germany, through numerous times of innovation, testing, and optimization, R&D department and technology department of Zenith company release S series cone crusher, which is of more compact and reasonable structural design. Both dimension and weight of crusher are obviously reduced compared with traditional spring cone crusher. Special material is used for key components which greatly improved working performance. The crushing chamber type can be adjusted according to specific requirement, significantly increasing product applicability. All performances in operation show greater improvement than traditional spring cone crusher. It has excellent performances in manufacture, installation, operation, and maintenance, greatly promoted grade and added value. Commercial profit is remarkable. It is ideal equipment for substitution of traditional spring cone crusher.



- | | |
|---------------------------------------|--------------------------------------|
| 1 给料斗 Feed hopper | 25 分料盘 Feed plate |
| 2 调整套料斗 Bowl hopper | 26 主轴螺帽 Main shaft nut |
| 3 调整帽密封 Adjustment cap seal | 27 调整帽 Adjustment cap |
| 4 锥形给料斗 Feed cone | 28 机架销 Main frame pin |
| 5 盖板 Cover plate | 29 支承套 Adjustment ring |
| 6 切割环 Torch ring | 30 弹簧上扇形板 Upper spring segment |
| 7 主轴套 Main shaft sleeve | 31 弹簧 Spring |
| 8 调整套 Bowl | 32 弹簧螺钉 Spring bolt |
| 9 U形螺钉及垫圈 U-shaped bolt and washer | 33 碗型瓦 Socket liner |
| 10 支承套防尘圈 Adjustment ring dust collar | 34 机架衬 Main frame liner |
| 11 轧臼壁 Bowl liner | 35 弹簧下扇形板 Lower spring segment |
| 12 破碎壁 Mantle | 36 碗形轴架 Socket |
| 13 破碎锥壳体 Head | 37 传动轴架护板 Countershaft box guard |
| 14 碗形轴承架密封环 Socket sealing ring | 38 甩油环 Oil flinger |
| 15 大齿轮 Gear | 39 破碎机皮带轮 Crusher sheave |
| 16 筋护板 Arm guard | 40 皮带轮锥套 Sheave taper sleeve |
| 17 小齿轮止推垫 Pinion thrust washer | 41 传动轴 Countershaft |
| 18 小齿轮 Pinion | 42 外传动轴衬套 Outer countershaft bushing |
| 19 内偏心套衬套 Inner eccentric bushing | 43 集油器 Oil flinger housing |
| 20 偏心套 Eccentric | 44 传动轴架 Countershaft box |
| 21 外偏心套衬套 Outer eccentric bushing | 45 内传动轴衬套 Inner countershaft bushing |
| 22 主机架 Main frame | 46 传动轴架密封 Countershaft box seal |
| 23 推力轴承板 Step bearing plates | 47 主轴 Main shaft |
| 24 机架底盖 Main frame cap | |



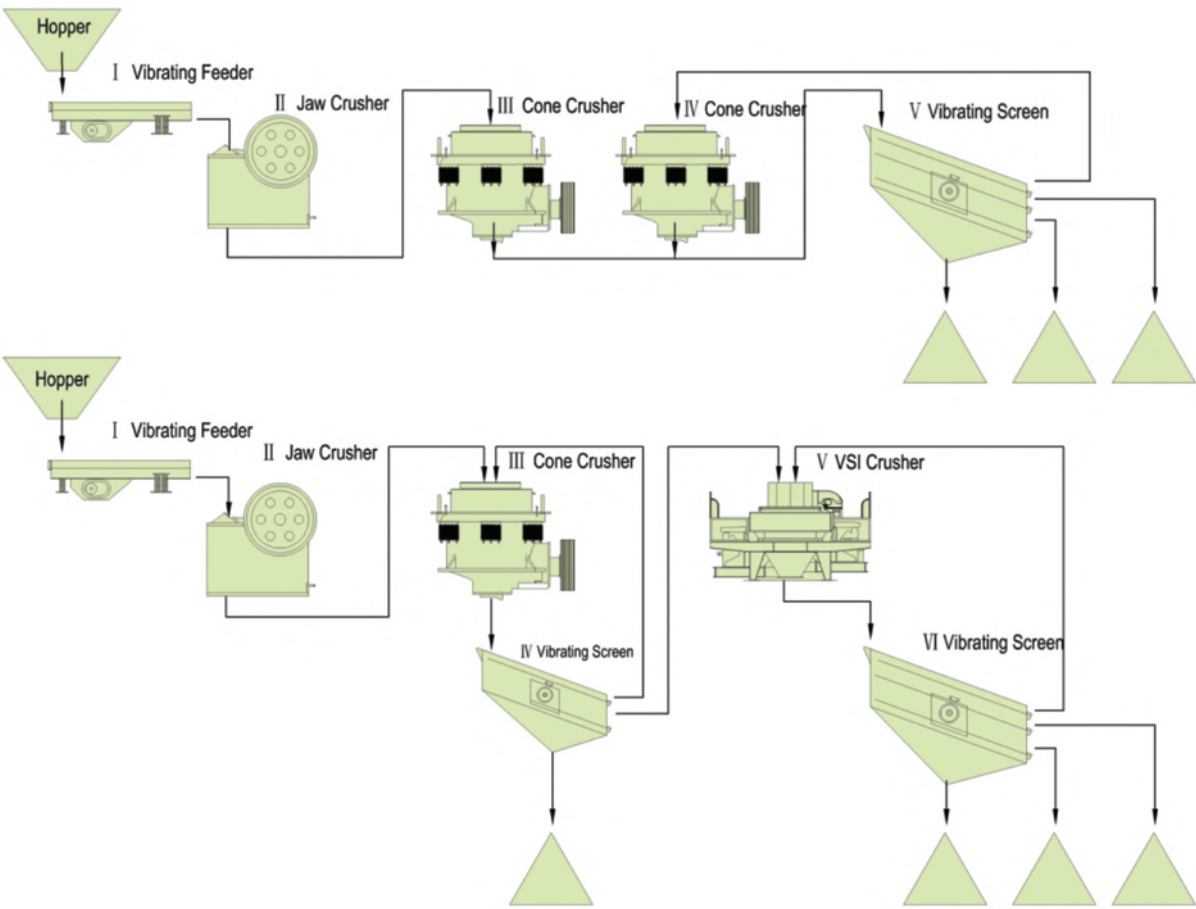
技术优势：

- 1.运行稳定。S系列圆锥破碎机出色的过载保护系统，能有效减少破碎过程中机器产生的振动。其独特的液压清腔系统，可以在机器发生瞬间闷车等非正常停机的情况下，液压起顶，进行清腔，减少停机时间。同时，其稳定的润滑系统和优异的密封特性，为机器长时间的稳定运行提供了坚实保障。
- 2.生产效率高。S系列圆锥破碎机采用层压破碎原理，具有破碎臂长，冲程大，破碎力强的优点。与传统的弹簧圆锥破碎机相比，在同等尺寸和机体重量下，S系列圆锥破碎机破碎壁离开轧臼壁距离更大，每一冲程破碎的物料更多，同时物料通过破碎腔的速度更快，因此可以成倍提高生产效率。
- 3.适用性强。S系列圆锥破碎机每种型号都有多种规格的破碎腔型，用户可根据物料特性，成品细度要求和粒型要求，选择合适的腔型。因此S系列圆锥破碎机广泛被用于二级和三级破碎。
- 4.生产成本低。S系列圆锥破碎机的破碎壁和轧臼壁的设计基于我公司长期积累衬板设计经验，采用目前最先进的耐磨材料，从而大幅度的降低了单位生产成本。

Technical advantages:

- 1.Stable running. S series cone crusher has excellent overload protection system, effectively reducing vibration during crushing process. Under abnormal halt circumstances such as instant blocking, its unique hydraulic chamber-cleaning system can lift the top by hydraulic pressure, clean the chamber, and reduce machine halt time. Meanwhile, stable lubrication system and excellent sealing feature ensure long time stable operation of the machine.
- 2.High production efficiency. S series cone crusher adopts lamination crushing principle, and has advantages of long crushing arm, big stroke, and high crushing force. Compared with traditional spring cone crusher, under same size and machine weight condition, the mantle of S series cone crusher leaves bowl liner much further, the crushed material is much more at every stroke, also, material speed is faster when passing crushing chamber, so the productivity is increased by many times.
- 3.Wide applications. Each model of S series cone crusher has multiple crushing cavity types as optioanl Customers can choose suitable cavity type according to material feature, finished product fineness and particle size requirement; therefore,S series cone crusher is widely used for secondary and tertiary crushing.
- 4.Low production cost. The design of S series cone crusher mantle and bowl liner follows long-term accumulated experience of liner plate design, and adopts most advanced wear-resistant material, which greatly reduces unit production cost.

典型生产流程 Typical flow chart

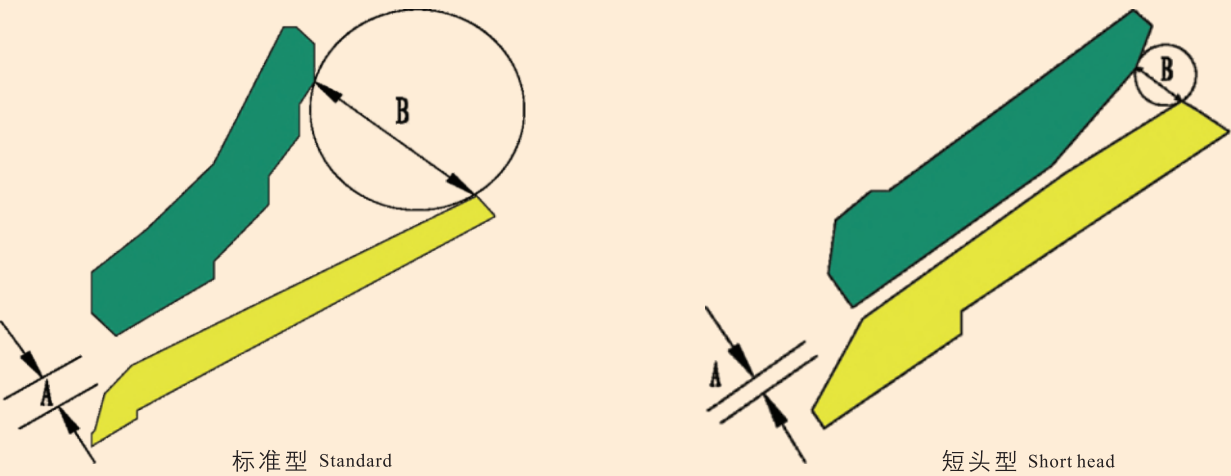


标准型开路流程性能参数表 Specification chart in open circuit (STANDARD)

型号 规格 Model	腔型 Cavity	推荐最小 排矿口 Recommen- ded minimum discharge setting A (mm)	对应于推荐的最小排矿口 A的给料口 Feed opening with min. recom- mended discharge setting A (mm)		对应排矿口的生产能力 Capacities in tons per hour passing through the crusher at indicated discharge														功率 Power (KW)
			开口边 Opening Side"B"	闭口边 ClosedSide"B"	9	13	16	19	22	25	31	38	51	64	76	89	102		
36" (3')	细型 Fine	9	102	83	45	58	70	80	93									75	
	粗型Coarse	13	175	159		59	71	92	107	115	137	165							
	特粗型 Extra Coarse	25	178	163						129	145	175	198						
51" (4 ¹ / ₄)	细型 Fine	13	137	109		106	125	145	153	161	183						185		
	中型Medium	16	210	188			132	156	174	201	224	253							
	粗型Coarse	19	241	215				171	198	217	249	295	349						
	特粗型 Extra Coarse	25	259	238						230	272	304	358	450					
66" (5 ¹ / ₂)	细型 Fine	16	209	188			180	200	224	256	298	324					240		
	中型Medium	22	241	213					252	286	330	380	417						
	粗型Coarse	25	268	241						299	353	417	453	634					
	特粗型 Extra Coarse	38	368	331								431	476	680					
84" (7')	细型 Fine	19	278	253				381	406	499	615	726					400		
	中型Medium	25	334	303						605	721	800	994						
	粗型Coarse	31	369	334							786	835	1078	1250					
	特粗型 Extra Coarse	38	460	425								886	1179	1354	1478	1525		1637	

短头型开路流程性能参数表 Specification chart in open circuit (SHORT HEAD)

型号 规格 Model	腔型 Cavity	推荐最小 排矿口 Recommen- ded minimum discharge setting A (mm)	对应于推荐的最小排矿口 A的给料口 Feed opening with min. recom- mended discharge setting A (mm)		对应排矿口的生产能力 Capacities in tons per hour passing through the crusher at indicated discharge												功率 Power (KW)
			开口边 Opening Side"B"	闭口边 ClosedSide"B"	3	5	6	10	13	16	19	25	29	32	38		
36" (3')	细型 Fine	3	41	13	27	40	53	67	91							75	
	粗型Coarse	3	60	33	28	41	54	68	92	100							
	特粗型 Extra Coarse	6	76	51			58	72	93	112	127						
51" (4 ¹ / ₄)	细型 Fine	3	64	29	36	57	83	102	134	160						160	
	中型Medium	6	89	54			84	104	136	164							
	粗型Coarse	10	105	70				110	157	180	202	224					
	特粗型 Extra Coarse	16	133	98						209	236						
66" (5 ¹ / ₂)	细型 Fine	5	70	35		90	134	160	207							240	
	中型Medium	6	89	54			137	164	210	253	280						
	粗型Coarse	10	133	98				190	253	282	304	330					
	特粗型 Extra Coarse	13	133	117					253	282	309	337					
84" (7')	细型 Fine	5	105	51		189	271	340	361	404						400	
	中型Medium	10	133	95				352	408	450	509						
	粗型Coarse	13	178	127					450	481	542	596					
	特粗型 Extra Coarse	16	203	152						505	592	650	684	693	727		



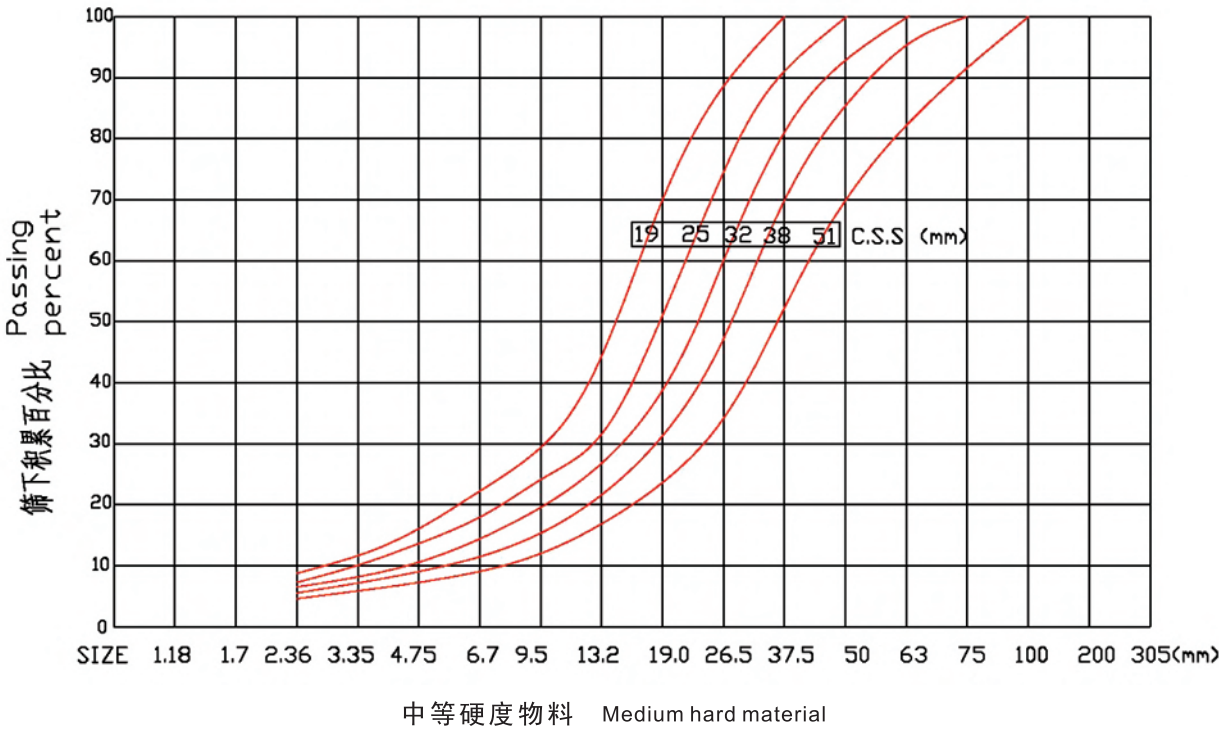
标准型与短头型破碎腔对照示意图
Sketch of the cavity between standard and short head type

标准型闭路流程性能参数表 Specification chart in closed circuit (STANDARD)

型号 规格 Model	腔型 Cavity	推荐最小 排矿口 Recommended minimum discharge setting A (mm)	对应于推荐的最小排矿口 A的给料口	循环筛的有效方孔尺寸 Effective square opening on circuit screen																		
			Feed opening with min. recom- mended discharge setting A (mm)	10		13		16		19		22		25		31		38		50		
				推荐的闭口边排矿口 Recommended closed side settings																		
				开口边 Opening Side"B"		闭口边 ClosedSide"B"		10		10		13		16		19		19		22		25
			I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II
36" (3')	细型 Fine	9	102	83	32	59	36	63	41	68	54	81	63	95	72	95	86	108	108	135	131	153
	粗型Coarse	13	175	159					41	68	54	81	68	99	77	99	90	113	108	135	131	153
	特粗型 Extra Coarse	25	178	163									68	99								
51" (4 ¹ / ₄)	细型 Fine	13	137	109					86	122	95	140	113	167	131	171	158	185	185	200		
	中型Medium	16	210	188							108	158	122	180	140	185	171	212	194	234	212	252
	粗型Coarse	19	241	216									126	189	149	194	171	221	198	243	225	266
	特粗型 Extra Coarse	25	259	238															203	248	234	279
66" (5 ¹ / ₂)	细型 Fine	16	209	188							144	212	162	239	189	243	216	270	270	324		
	中型Medium	22	241	213													225	279	279	338	297	351
	粗型Coarse	25	268	241															284	342	306	360
	特粗型 Extra Coarse	38	368	331																	315	369
84" (7')	细型 Fine	19	278	253																		
	中型Medium	25	334	303																		
	粗型Coarse	31	369	334																		
	特粗型 Extra Coarse	38	460	425																		

说明：1. 产量以物料堆密度1.6t/m³计； 2. I--净成品（筛下）； 3. II--每小时通过破碎机的吨数（净成品加循环负荷）
Note: 1. density of material is 1.6t/m³. 2. I Net final product（screen undersize）. 3. II Tons per hour passing through crusher (net finished product plus recirculating load)

粒度特性曲线 Indicative gradation curves

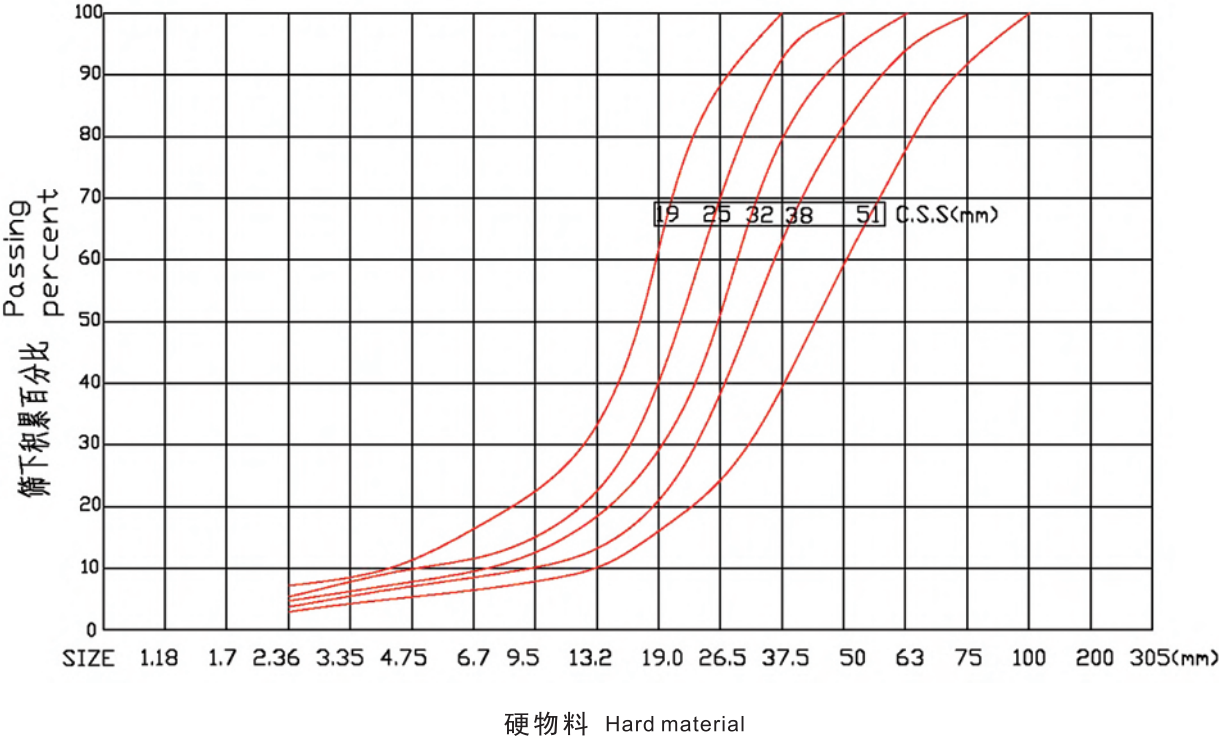


短头型闭路流程性能参数表 Specification chart in closed circuit (SHORT HEAD)

型号 规格 Model	腔型 Cavity	推荐最小 排矿口 Recommen- ded minimum discharge setting A (mm)	对应于推荐的最小排矿口 A的给料口 Feed opening with min. recom- mended discharge setting A (mm)		循环筛的有效方孔尺寸 Effective square opening on circuit screen															
					3		5		6		10		13		16		19		25	
			推荐的闭口边排矿口 Recommended closed side settings																	
			开口边 Opening Side"B"	闭口边 ClosedSide"B"	3		5		5		6		10		13		16		19	
I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II			
36" (3')	细型 Fine	3	41	13	14	27	18	36	27	40	45	59	63	77	72	99				
	粗型 Coarse	3	60	33	14	27	18	36	27	40	45	59	63	77	72	99	86	122		
	特粗型 Extra Coarse	6	76	51							50	63	68	81	77	104	95	131	117	135
51" (4 1/4')	细型 Fine	3	64	29	18	36	32	63	50	72	68	99	90	117	113	153				
	中型 Medium	6	89	54							72	108	95	126	113	153				
	粗型 Coarse	10	105	70									99	135	126	180	158	225	180	234
	特粗型 Extra Coarse	16	133	98													158	225	180	234
66" (5 1/2')	细型 Fine	5	70	35			59	117	81	126	122	180	158	198	189	243				
	中型 Medium	6	89	54							122	180	158	198	189	243	221	315	252	326
	粗型 Coarse	10	133	98									162	216	198	252	225	324	288	347
	特粗型 Extra Coarse	13	133	117											198	252	225	324	288	358
84" (7')	细型 Fine	5	105	51			108	216	144	227	216	324	284	351	324	405	378	450		
	中型 Medium	10	133	95									284	378	324	453	378	495	450	544
	粗型 Coarse	13	178	127											345	486	405	585	495	594
	特粗型 Extra Coarse	16	203	152													419	612	495	621

说明：1. 产量以物料堆密度1.6t/m³计； 2. I--净成品（筛下）； 3. II--每小时通过破碎机的吨数（净成品加循环负荷）
Note: 1. density of material is 1.6t/m³. 2. I Net final product（screen undersize）. 3. II Tons per hour passing through crusher (net finished product plus recirculating load)

粒度特性曲线 Indicative gradation curves

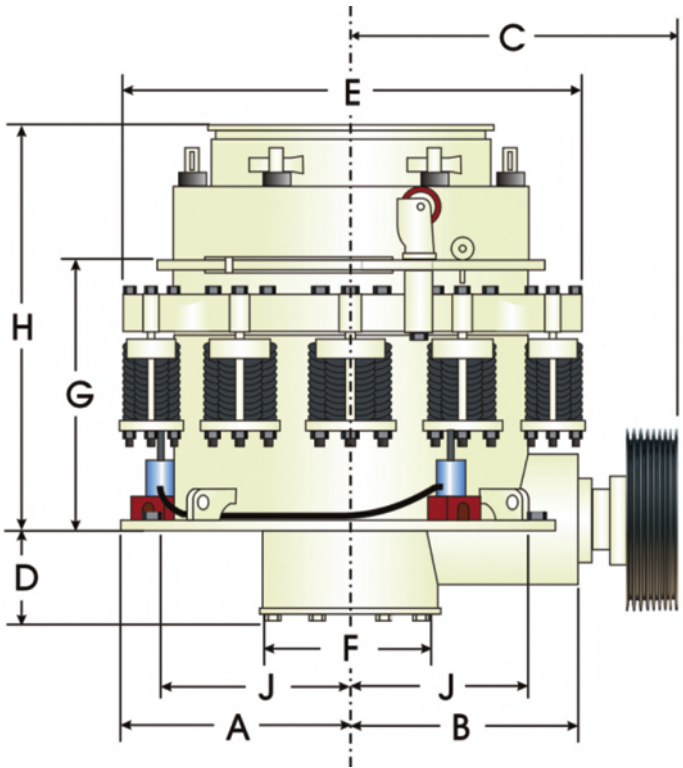


开路产品粒度筛析（筛下%） Passing percent of product in open circuit (passing percent)

给料特性：中等硬度/坚硬、给定闭口边排矿口，开路循环、产品粒度分析（通过百分比） Material characters: Medium hard/hard, certain discharge opening of closed side, open circuit, product size analyzing (passing percent)

产品粒度 Product size mm	破碎机闭口边排矿口 Discharge opening of closed side in crusher (mm)							
	6	10	13	19	25	31	38	51
2	25 16	17 11	13 8	9 6	7 4	6 4	5 3	4 2
3	34 24	23 15	18 12	12 8	10 6	8 5	7 4	5 3
5	50 40	32 22	25 16	17 11	13 8	11 7	9 6	7 4
6	70 60	44 33	32 22	22 14	17 11	14 9	12 7	9 6
10	94 92	70 60	51 40	32 22	25 16	20 13	17 11	13 8
13	100 100	86 84	70 60	44 33	32 22	26 17	22 14	17 11
19		100 100	92 92	70 60	51 40	39 29	32 22	25 16
25			100 100	86 84	70 60	54 43	44 33	32 22
31				95 95	82 79	70 60	57 46	41 30
38				100 100	92 92	80 76	70 60	51 40
51					100 100	94 93	86 84	70 60
64						100 100	95 95	82 79
76							100 100	92 92
102								100 100

注：表列数据随给料方法、破碎腔型、物料堆密度、物料清洁度、物料湿度及断裂特性不同而变化。精确值需由试验确定。 Note: the data in table will change along with the variation of the feeding way, crushing cavity, material's density, material's cleanliness, material's humidity and rupturing character, the exact value should assure by test.



机器尺寸 (mm) Machinery dimension

破碎机规格 The model of crusher		36 "	51 "	66 "	84 "
破碎机中心线至机架法兰 Crusher centerline to mainframe flange	A	850	1000	1440	1650
破碎机中心线至传动轴架法兰面 Crusher centerline to countershaft housing face	B	880	1130	1400	1780
破碎机中心线至传动轴外端面 Crusher centerline to the end of countershaft	C	1870	2040	2450	2980
机架基面至底盖最低点 Main frame base to the bottom of main frame cap	D	455	630	810	1030
支承套最大直径 Max diameter of adjustment ring	E	2000	2500	3280	4270
底盖直径 Main frame cap diameter	F	550	690	810	920
机架基面至支承套顶部 Main frame base to the top of adjustment ring	G	1100	1300	1550	1960
机架基面至料斗顶部 Main frame base to the top of feed hopper	H	1720	2300	2690	3300
地角螺钉位置尺寸 Location measure of anchor screw	J	660	880	1130	1245
机器拆卸所需高度 Height required to disassembly the machine		2800	3600	4200	5400
外形尺寸 Overall dimension		2865×2000×2190	3300×2500×2940	4105×3280×3505	5110×4270×4350

部件重量表 (kg) Weight list

破碎机规格 Model of crusher	36 "		51 "		66 "		84 "	
	标准型 Standard	短头型 Short head	标准型 Standard	短头型 Short head	标准型 Standard	短头型 Short head	标准型 Standard	短头型 Short head
破碎机本体 Crusher complete	9980	10530	22460	22590	43270	43870	67360	70130
机架部 Main frame	2630		5490		11430		18140	
支承套、弹簧 Adjustment ring, Spring	2130		5490		8260		10800	
调整套、轧臼壁、调整帽 Bowl, Bowl liner, Adjustment cap	1820	2040	4900	4350	10250	9160	14830	14330
破碎锥、主轴、破碎壁、分料盘 Head, Main shaft, Mantle, Feed plate	1680	2000	3630	4310	7580	9250	13970	17240
传动轴架、传动轴、皮带轮 Countershaft box, Countershaft, Crusher sheave	910		1270		2130		3180	
偏心套部 Eccentric	540		1050		1910		3450	

说明：质量相同之部件只标注一个 Note: the parts with same weight only label one.