



Range of Cone Crushers



A reliable range of cone crushers

Roc Impact cone crushers are widely used in mines and quarries around the world and have earned a reputation for being tough and reliable. Two main types of cone crushers are available:

- the Roc STD, standard type for coarse crushing.
- the Roc SH, short head type for fine crushing.

These two crusher types are designed for secondary or tertiary crushing of highly abrasive materials in either fixed or mobile plants.

Reliable and tough

Machined and inspected parts made of high-strength steel.

Highly abrasive materials

Designed for all types of hard and abrasive minerals. [granite, quartz, etc.].

Centralized hydraulic adjustment

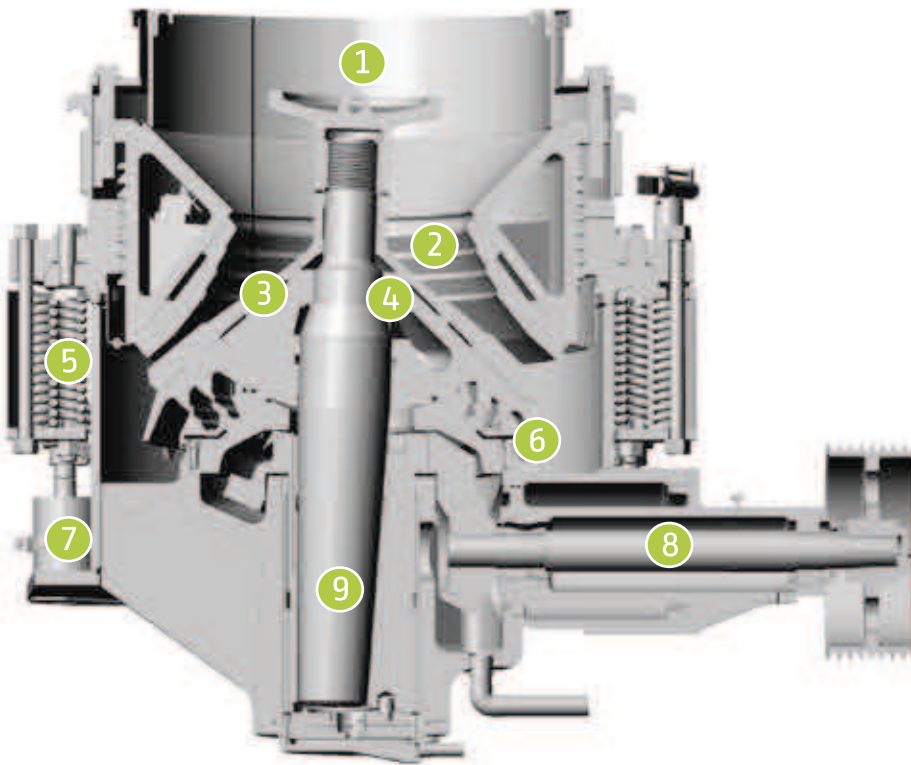
Settings adjustment, locking, and clearing managed from a control center. The head and bowl are easy to remove.

Capacity: 15-1360 t/h

Receiving opening from 50 to 460 mm. Engine power from 30 to 300 Kw.



The parts of a cone crusher



- ① Distributor
- ② Bowl liner
- ③ Mantle
- ④ Head
- ⑤ Tension springs
- ⑥ Dust rings
- ⑦ Hydraulic cylinder
- ⑧ Counter-shaft
- ⑨ Main shaft

Features of a cone crusher

Simplicity of design and rugged construction make Roc Impact cone crushers ideal for any crushing operation.

You can choose from a wide range of cone crusher models for optimal yield and cost-effective production.





Range of Cone Crushers



A rugged frame - Heavy Duty Casting

The upper and lower sections of the main frame of Roc cone crushers are securely joined with tension bolts. Each part is made of high strength steel, which allows the frame to withstand the high stress

involved in the crushing operation.

In addition, a lining is installed at the wear point where material passes through.



Hydraulic settings adjustment, locking and clearing

Roc cone crushers are equipped with two hydraulic cylinders for adjusting the crusher. Controlled from a central control unit, they make it very easy to "tighten" or "loosen" the crusher.

Lubrication

The external lubrication system provides a constant flow of oil to the machine for smooth rotation thanks to pressurized lubrication.





Safety mechanism:

The spring-mounted release system allows tramp materials to go through, providing maximum protection for the machine. Roc cone crushers have a lubrication system that is interlocked with the main motor for optimal safety. They also have safety features installed on the lubrication reservoir, including temperature and level sensors, and a pressure switch. It is recommended to use a permanent magnet before the crusher.



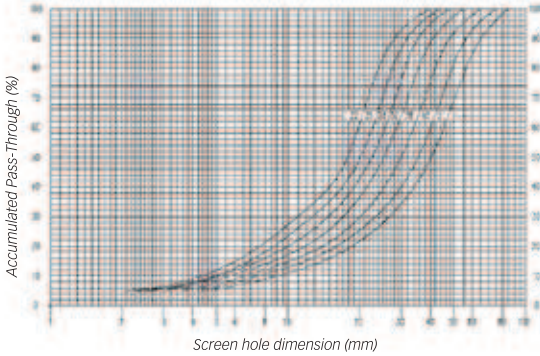
Easy, low-cost maintenance

The bronze bushings offer a high degree of resistance to the impact produced during grinding. Because Roc cone crushers are easy to access during disassembly and inexpensive bronze bushings are used, maintenance

is easy. It should also be noted that the head and the bowl can be removed without dismantling the mechanical assembly.

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General gradation curves



General specifications of cone crushers type

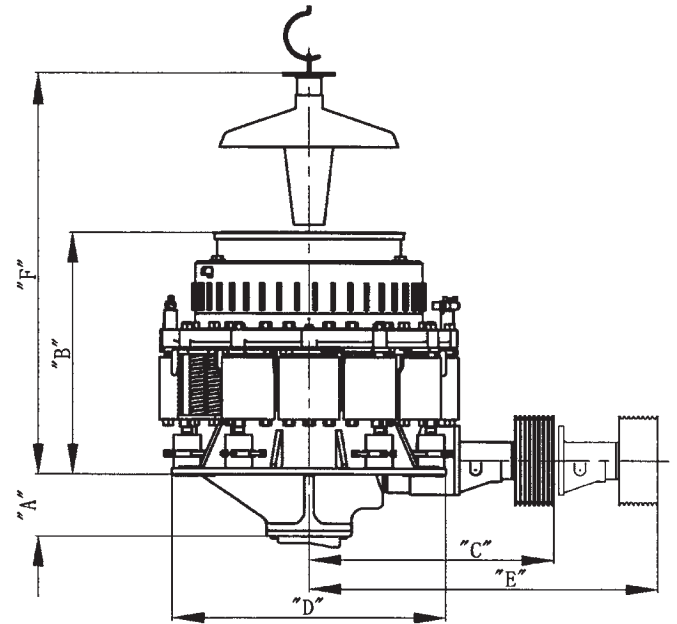
MODELS	Motor power (kW)	Cavity	Setting Mini	OPENING FEEDING		PRODUCTION AT RESPECTING SETTINGS (Tons/Hr)														
				Min. closed	Max. Open	3	5	6	8	10	13	16	19	20	25	32	40	50	63	
ROC 600 STD	30	Fine	6	56	64			16	18	19	22	27	30	33						
		Coarse	8	78	103					19	22	27	30	33	45	54				
		Extra-coarse	11	100	118						22	27	30	33	50	63				
ROC 600 SH	30	Fine	5	27	34		15	18	22	25	35									
		Coarse	5	38	45		15	18	22	25	35									
ROC 900 STD	75	Fine	10	103	125					36	45	54	60	65	75	90				
		Medium	-	-	-															
		Coarse	13	124	148						50	65	75	85	105	125				
		Extra-coarse	19	180	198									80	90	115	135	160		
ROC 900 SH	90	Fine	3	12	40	25	35	40	52	62	75									
		Medium	5	33	42		35	42	55	65	80	95								
		Coarse	6	50	69			47	60	75	92	110	120							
		Extra-coarse	8	65	77				70	85	105	125	145							
ROC 1150 STD	110	Fine	12	130	173						85	105	110	130	160	180				
		Medium	15	157	215								105	110	130	160	190	225		
		Coarse	19	182	250										140	175	215	245	270	
		Extra-coarse	21	216	251											150	190	220	260	300
ROC 1300 STD	160	Fine	13	131	180						100	125	135	150	180	200	225			
		Medium	20	205	253										150	180	210	245	280	
		Coarse	22	229	258											200	230	280	320	
		Extra-coarse	25	242	290												215	250	290	330
ROC 1300 SH	160	Fine	5	28	82		60	72	85	105	125	145								
		Medium	6	42	79			72	90	110	130	150								
		Coarse	9	74	118				95	120	150	170	190	200	210					
		Extra-coarse	13	103	136							160	180	200	210	225				
ROC 1600 STD	250	Fine	19	196	238									215	250	290	320	345		
		Medium	22	219	289											270	330	370	410	
		Coarse	25	251	302											280	340	400	450	580
		Extra-coarse	38	343	387													420	470	610
ROC 1600 SH	250	Fine	6	36	84			105	135	160	190	210								
		Medium	8	57	102				145	170	200	225	240							
		Coarse	12	100	124						210	235	255	265	280					
		Extra-coarse	16	150	178							255	275	290	300					
ROC 2100 STD	400	Fine	19	270	292									380	500	620	730			
		Medium	25	308	340											610	730	810	1000	
		Coarse	32	340	375												790	840	1090	1270
		Extra-coarse	38	425	460													880	1180	1360
ROC 2100 SH	400	Fine	5	51	98			190	270	320	360	400								
		Medium	10	95	133					360	400	450	500							
		Coarse	13	127	178						450	480	540	570	600					
		Extra-coarse	16	152	203							500	590	620	650					

Capacity based on a continuous and regular supply of clean, dry material of standard hardness with a bulk density of 1.6 tons/m³. Capacity may vary depending on the size and nature of the rock and the operating conditions of the plant.

General dimensions of cone crushers type

Sections	Models				
	ROC 600	ROC 900	ROC 1150	ROC 1300	ROC 1600
Section A	300	340	510	600	720
Section B	1150	1660	1750	2150	2450
Section C	1105	1546	1670	1920	2216
Section D	1250	1530	1760	2020	2450
Section E	1750	2200	2415	2800	3170
Section F	1920	2800	3000	3500	4300

All these dimension are indicated only as general information.



Weight of major sub-assemblies

Sub assembly	Models				
	ROC 600	ROC 900	ROC 1150	ROC 1300	ROC 1600
Lower Body S/A + Upper Frame	2,25	5,3	7,3	11	17,6
Upper Body S/A - Upper Frame	0,85	2,2	3,2	4,4	7,9
Eccentric Seat S/A	0,25	0,5	0,65	1,1	2,1
Eccentric Shaft S/A	0,48	1,3	2,1	3,1	5,9
Transmission Shaft S/A	0,34	0,6	0,75	1,0	1,7

All these dimension are indicated only as general information.

