ROC IMPACT
CRUSHING SOLUTIONS

• ROC CONE CRUSHERS

RELIABLE AND ROBUST

High steel parts machined resistance and controlled.

MATERIALS HIGHLY ABRASIVES

Suitable for all types of hard and abrasive ores. (granite, quartz,...)

SETTING HYDRAULIC CENTRALIZED

Adjustment, clamping and clearing from a hydraulic unit. easy head and bowl extraction.

CAPACITY 15 TO 1360 T/H

Setting from 50 to 460 mm. Power motor from 30 to 400 Kw

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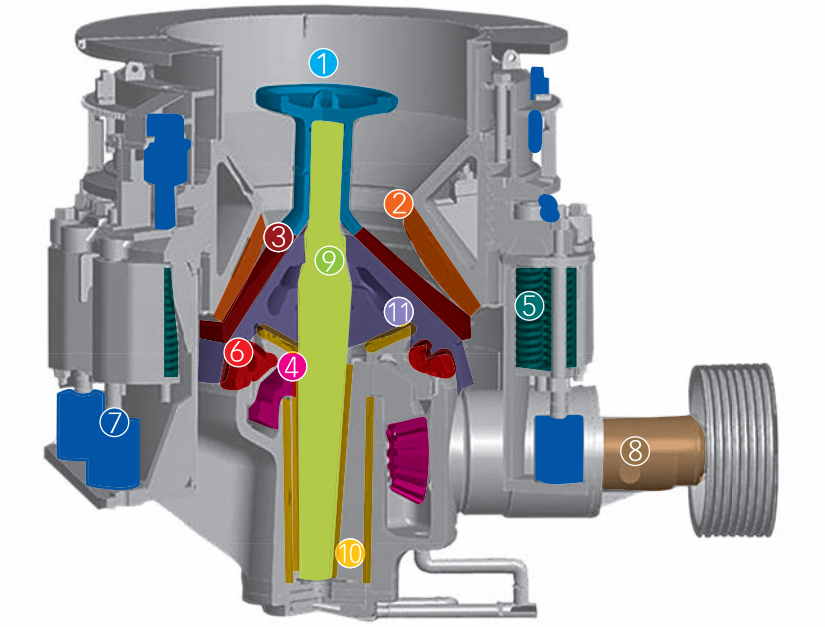
FIABILITY

Roc Impact cone crushers, used across the world in many mines and quarries are renowned for being reliable and robust.

Two main types of cone crushers are available to you:
> Roc STD, standard type for large crushing.
> Roc SH, short head type for fine crushing.

Both types are intended for secondary or tertiary crushing whether in a fixed or mobile installation for highly abrasive materials.



CONSTRUCTION

1. Distributor plate and shaft collar
2. Bowl liner
3. Mantle
4. Gear and pinion
5. Tension spring
6. Socket sealing ring
7. Hydraulic cylinder
8. Countershaft
9. Main shaft
10. Eccentric bush and socket liner
11. Head

CARACTERISTICS

Its simple design and sturdy construction make the Roc Impact cone crusher ideal for any crushing operation.

The upper and lower parts of the crusher frame with Roc cone are securely assembled by bolts.

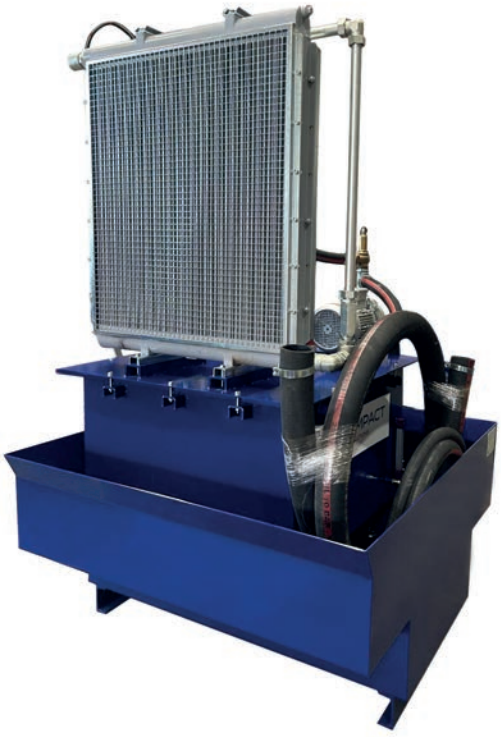
Each part is made of high-strength steel, which allows the frame to withstand high stresses during the crushing operation.
In addition, shielding helps limit wear when materials pass through.

HYDRAULIC SETTING, LOCKING AND CLEARING SYSTEM

Continuous adjustment using a crown driven by a hydraulic motor which facilitates maintenance operations.
RC Cone crushers are equipped with hydraulic cylinders for clamping and holding.
The device is controlled using a hydraulic power unit.

LUBRICATION

The external lubrication system ensures a continuous oil supply to the machine for smooth rotation thanks to pressure lubrication.



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TECHNICAL SPECIFICATIONS

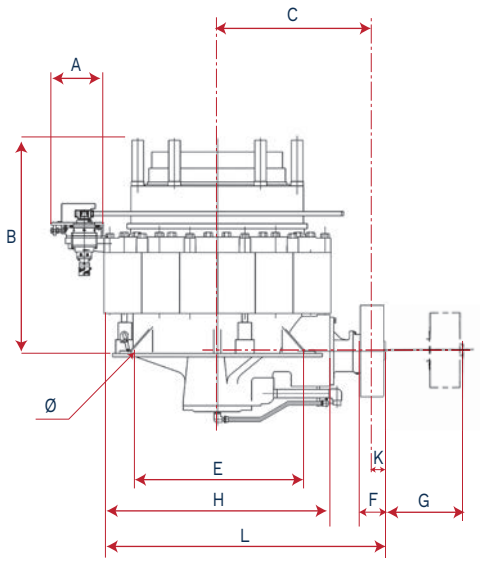
Model	Opening (mm)	Weight (Kg)	Ability (tph)	Power (Kw/h)
ROC 600 STD	56 - 118	5 000	16 -63	30
ROC 600 SH	27 -45	5 000	15 -35	30
ROC 900 STD	103 - 198	13 000	36 - 160	75
ROC 900 SH	12 - 77	13 000	25 - 145	90
ROC 1300 STD	131 - 290	25 000	100 - 370	160
ROC 1300 SH	28 - 136	25 000	60 - 225	160
ROC 1600 STD	196 - 387	45 000	215 - 610	250
ROC 1600 SH	36 - 178	45 000	105 - 300	250
ROC 2100 STD	270 - 460	80 000	380 - 1360	400
ROC 2100 SH	51 -203	80 000	190 - 650	400

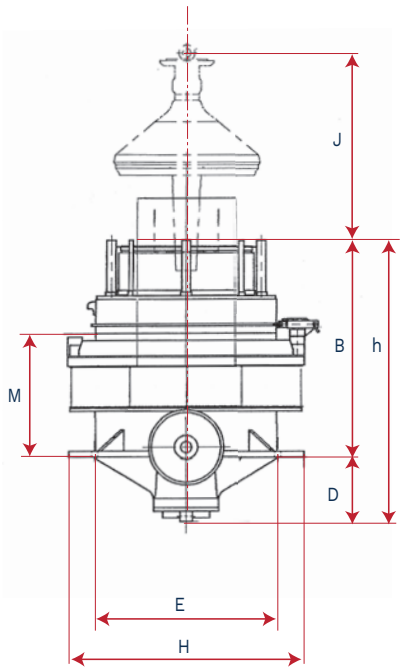
Capacity based on a continuous and regular supply of clean, dry, standard hardness materials with a bulk density of 1.6 ton/m3.
Capacity may vary depending on the size and nature of the rock as well as the operating conditions of the installation.
The particle size curves, flow rates and dimensions can be modified and are given for information purposes only and are non-contractual.

GENERAL DIMENSIONS (mm)

Model	L	h	A	B	C	D	E	F			J	K		Ø
ROC 600 STD/SH	1801	1468	470	1100	1050	368	990	90			950	84		45
ROC 900 STD/SH	2232	2090	510	1660	1235	430	1320	226			1040	178		58
ROC 1300 STD/SH	2731	2826	602	2248	1472	578	1766	298			1012	192		64
ROC 1600 STD/SH	3912	3338	753	2760	2236	794	2260	370			1388	227		76
ROC 2100 STD/SH	4622	4045	822	3004	-	1041	2490	-			1879	-		102

The parameters in the table are for reference only.





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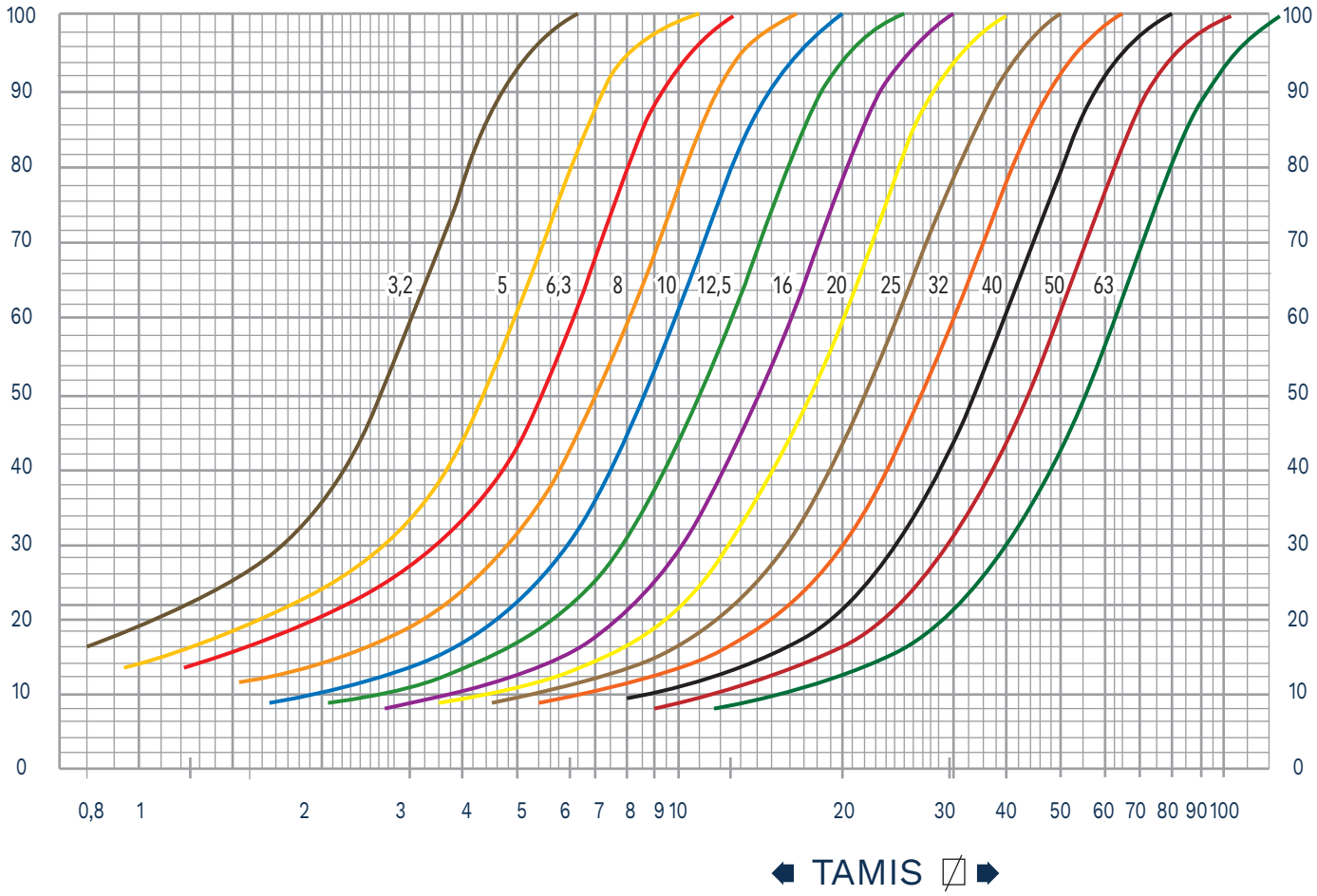
GRANULOMÉTRIC SCALE



Average granulometric scale for aggregate product, open circuit

These average curves may vary according to the feed method, the cavity density, feed size, moisture content and friability of the material. Actual graphs can only be produced by testing.

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STANDARD - OPEN CIRCUIT

Type	Cavity	Minimum setting discharge recommanded A	Aperture at minimum setting A		Maximum setting discharge possible A1	Aperture at maximal setting A1	
			Closed side B	Open side B		Closed side B1	Open side B1
ROC 600 STD	**Fine**	6 mm	56 mm	71 mm	19	64 mm	80 mm
	Coarse	8 mm	78 mm	93 mm	38	103 mm	114 mm
	Extra coarse	11 mm	100 mm	111 mm	38	118 mm	128 mm
ROC 900 STD	**Fine**	10 mm	103 mm	115 mm	43	125 mm	140 mm
	Coarse	13 mm	124 mm	143 mm	37	148 mm	165 mm
	Extra coarse	19 mm	180 mm	196 mm	37	198 mm	211 mm
ROC 1300 STD	**Fine**	13 mm	131 mm	150 mm	62	180 mm	199 mm
	Medium	20 mm	205 mm	224 mm	62	253 mm	272 mm
	Coarse	22 mm	229 mm	253 mm	50	258 mm	280 mm
	Extra coarse	25 mm	242 mm	270 mm	68	290 mm	310 mm
ROC 1600 STD	**Fine**	19 mm	196 mm	208 mm	78	238 mm	250 mm
	Medium	22 mm	219 mm	241 mm	92	289 mm	311 mm
	Coarse	25 mm	251 mm	276 mm	76	302 mm	327 mm
	Extra coarse	38 mm	343 mm	368 mm	82	387 mm	412 mm
ROC 2100 STD	**Fine**	19 mm	270 mm	292 mm			
	Medium	25 mm	308 mm	340 mm			
	Coarse	32 mm	340 mm	375 mm			
	Extra coarse	38 mm	425 mm	460 mm			

SHORT HEAD - OPEN CIRCUIT

Type	Cavity	Minimum setting discharge recommanded A	Aperture at minimum setting A		Maximum setting discharge possible A1	Aperture at maximal setting A1	
			Closed side B	Open side B		Closed side B1	Open side B1
ROC 600 SH	Fine	5 mm	27 mm	40 mm	13 mm	34 mm	47 mm
	Coarse	5 mm	38 mm	50 mm	13 mm	45 mm	56 mm
	Fine	3 mm	12 mm	40 mm	31 mm	40 mm	65 mm
ROC 900 SH	Medium	5 mm	33 mm	60 mm	25 mm	42 mm	71 mm
	Coarse	6 mm	50 mm	76 mm	25 mm	69 mm	91 mm
	Extra Coarse	8 mm	65 mm	90 mm	20 mm	77 mm	102 mm
ROC 1300 SH	Fine	5 mm	28 mm	63 mm	59 mm	82 mm	117 mm
	Medium	6 mm	42 mm	72 mm	59 mm	79 mm	109 mm
	Coarse	9 mm	74 mm	106 mm	53 mm	118 mm	150 mm
	Extra Coarse	13 mm	103 mm	135 mm	46 mm	136 mm	174 mm
ROC 1600 SH	Fine	6 mm	36 mm	71 mm	54 mm	84 mm	119 mm
	Medium	8 mm	57 mm	87 mm	54 mm	102 mm	132 mm
	Coarse	12 mm	100 mm	131 mm	44 mm	124 mm	155 mm
	Extra Coarse	16 mm	150 mm	184 mm	44 mm	178 mm	212 mm
ROC 2100 SH	Fine	5 mm	51 mm	98 mm			
	Medium	10 mm	95 mm	133 mm			
	Coarse	13 mm	127 mm	178 mm			
	Extra Coarse	16 mm	152 mm	203 mm			

Capacity is based on a continuous, steady supply of clean, dry, standard hardness material with a bulk density of 1.6 T/M3. - The capacity may vary according to the size and nature of the rock as well as th

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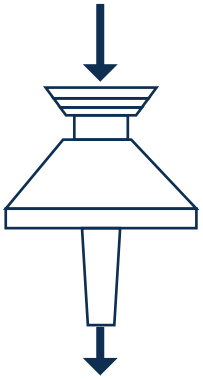
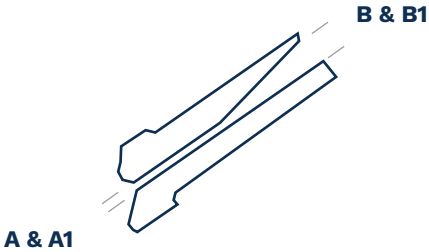
Production (T/H) at respective settings									
6,3	10	12,5	16	20	25	32	40	50	63
16	19	22	27	33					
	19	22	27	33	45	54			
		22	27	36	50	63			
	36	45	54	65	75	90			
		50	65	85	105	125			
				90	115	135	160		
		100	125	150	180	200	225		
				150	180	210	245	280	
					200	230	280	320	
					215	250	290	330	370
				215	250	290	320	345	
					270	330	370	410	
					280	340	400	450	580
							420	470	610
				380	500	620	730		
					610	730	810	1000	
						790	840	1090	1270
							880	1180	1360

Production (T/H) at respective settings								
3	5	6	8	10	13	16	19	25
	15	18	22	25	35			
	15	18	22	25	35			
25	35	40	52	62	75			
	35	42	55	65	80	95		
		47	60	75	92	110	120	
			70	85	105	125	145	
	60	72	90	105	125	145		
		72	95	110	130	150		
				120	150	170	190	210
					160	180	200	225
		105	135	160	190	210		
			145	170	200	225	240	
					210	235	255	280
						255	275	300
		190	270	320	360	400		
				360	400	450	500	
					450	480	540	600
						500	590	650





he operating conditions of the installation.

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SHORT HEAD - CLOSED CIRCUIT

Type	Cavity	Minimum discharge recommanded A	Aperture at minimum Setting A		Maximum discharge possible A	Aperture at maximum Setting A1	
			Closed side B	Open side B		Closed side B1	Open side B1
ROC 600 SH	Fine	5 mm	27 mm	40 mm	13 mm	34 mm	47 mm
	Coarse	5 mm	38 mm	50 mm	13 mm	45 mm	56 mm
ROC 900 SH	Fine	3 mm	12 mm	40 mm	31 mm	40 mm	65 mm
	Medium	5 mm	33 mm	60 mm	25 mm	42 mm	71 mm
	Coarse	6 mm	50 mm	76 mm	25 mm	69 mm	91 mm
	Extra Coarse	8 mm	65 mm	90 mm	20 mm	77 mm	102 mm
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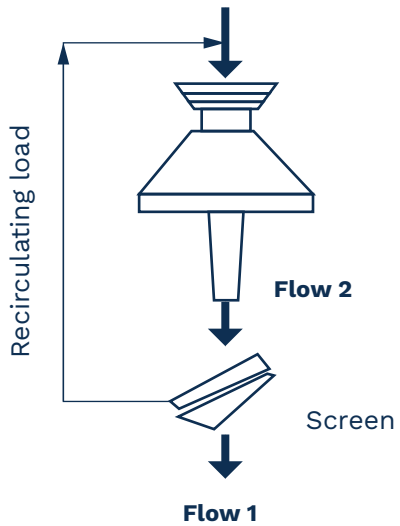

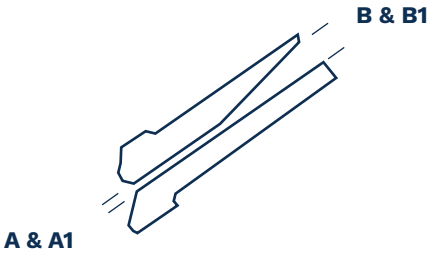

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Production (T/H) based in closed circuit operation :													
5		6,3		10		12,5		16		20		25	
Recommended setting for closed circuit													
5		6		8		10		13		16		19	
1	2	1	2	1	2	1	2	1	2	1	2	1	2
10	18	12	20	19	24	22	27	30	38				
10	18	12	20	19	24	22	27	30	38				
23	38	24	44	45	57	54	68	64	82				
23	38	28	46	47	60	57	71	68	88	81	104		
		31	52	51	66	66	82	78	100	93	120	108	132
				60	77	75	93	90	115	107	137	131	159
40	66	48	80	78	100	92	115	107	137	125	160		
		48	80	82	105	97	120	110	143	128	165		
						105	132	128	165	145	187	171	209
								137	176	155	200	180	220
		75	115	115	150	141	176	163	209	180	231		
				125	160	150	187	172	220	193	247	216	264
								180	231	201	258	230	280
										219	280	248	302
		145	208	218	327	286	354	327	408	381	454		
						286	381	327	454	381	500	454	544
								345	490	408	590	500	600
										422	617	500	626

Colonne 1 : gives (T/H) finished product (screen undersize)
Colonne 2 : gives (T/H) passing through the crusher.

NB : These figures are for materials with a density of 1.6.
Feed size, material hardness and moisture content of feed all affect capacity.

Best results are obtained if the material to be processed and the specification of the final product are considered in selecting the setting.

under certain conditions The Roc Standard Cone Crusher can be operated in closed circuit.
We will be pleased to study any specific application you may have.


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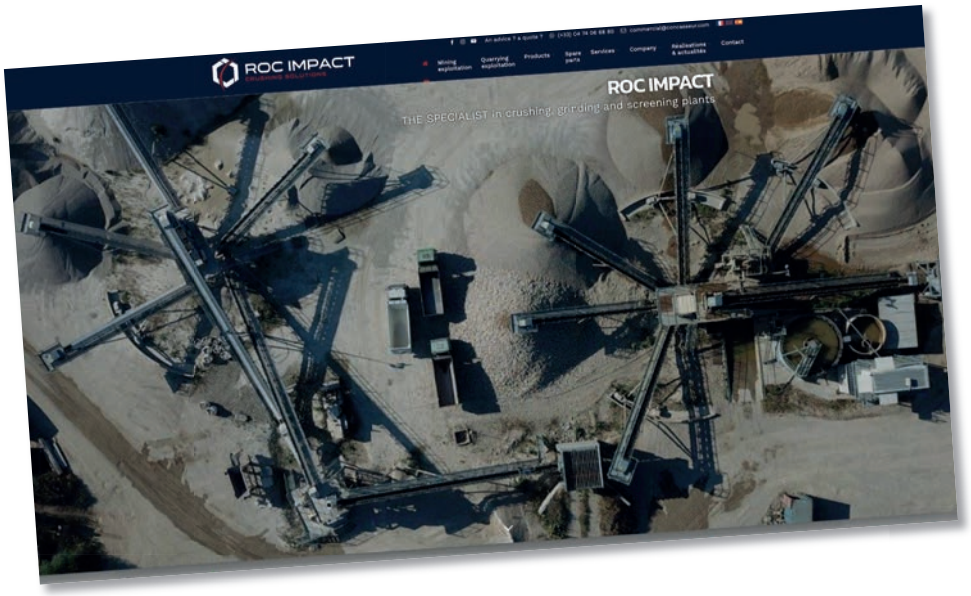

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