

Crushers, Double Roll

U.S. Standard

Size ^a (in.)	Required hp	Maximum Size (in.)	Approximate Capacities (stons per hour) ^b										
			Opening (in.)										
			1/4	1/2	3/4	1	1-1/4	1-1/2	1-3/4	2	2-1/2	3	4
24 x 20	50	2	52	104	156	208	260	312	364	416			
40 x 25	150	3	65	128	188	251	312	378	440	498	623	750	
54 x 30	250	4	89	180	272	360	446	540	631	715	898	1,108	1,432

Metric

Size ^a (cm.)	Required hp	Maximum Size (cm.)	Approximate Capacities (mtonnes per hour) ^b										
			Opening (cm.)										
			0.6	1.3	1.9	2.5	3.2	3.8	4.5	5.1	6.4	7.6	10.2
61 x 51	50	5.1	47	94	142	189	236	283	330	377			
102 x 61	150	7.6	59	116	171	228	283	343	399	452	565	680	
137 x 76	250	10.2	81	163	247	327	405	490	572	649	815	1,005	1,299

^a The first number is the roll shell diameter. The last number is the width of the roll shell face.

^b Based on limestone of average friability.

Crushers, Gyratory

U.S. Standard

Crusher Size ^a /in.	Maximum Design hp	Approximate Capacities (stons per hour)												
		Open Side Discharge Opening (in.)												
		4	4-1/2	5	5-1/2	6	6-1/2	7	7-1/2	8	8-1/2	9	9-1/2	10
30 - 60	250	600	700	900	1,000									
42 - 70	400		800	1,000	1,200	1,300	1,400	1,500	1,600					
54 - 75	500			1,200	1,500	1,800	2,000	2,200	2,500	2,800				
60 - 90	700					2,400	2,600	2,900	3,200	3,400	3,700	4,000		
60 - 110	1,000							3,900	4,100	4,200	4,500	4,800	4,900	5,200
72 - 112	1,400							3,400	3,800	4,200	4,700	5,100	5,600	6,100

^a First number is distance (in.) from mantle to liner crown. Second number is mantle diameter (in.) at discharge.

Metric

Crusher Size ^a /cm	Maximum Design hp	Approximate Capacities (mtonnes per hour)												
		Open Side Discharge Opening (cm.)												
		10	11	13	14	15	17	18	19	20	22	23	24	25
80 - 150	250	500	600	800	900									
110 - 180	400		700	900	1,100	1,200	1,300	1,400	1,500					
140 - 190	500			1,100	1,400	1,700	1,800	2,000	2,300	2,500				
150 - 230	600					2,200	2,400	2,600	2,900	3,400	3,600			
150 - 280	1,000							3,500	3,700	3,700	4,100	4,400	4,400	4,700
180 - 280	1,400							3,100	3,400	3,800	4,300	4,600	5,100	5,500

^a First number is distance (cm.) from mantle to liner crown. Second number is mantle diameter (cm.) at discharge.