

US EPA ARCHIVE DOCUMENT

Capacities & Technical Specifications

		C96	C105	C80	C100	C3054	C110	C125	C140	C145	C160	C200
Feed opening width mm (in)		930 (37)	1060 (42)	800 (32)	1000 (40)	1375 (54)	1100 (44)	1250 (49)	1400 (55)	1400 (55)	1600 (63)	2000 (79)
Feed opening depth mm (in)		580 (23)	700 (28)	510 (20)	760 (30)	760 (30)	850 (34)	950 (37)	1070 (42)	1100 (43)	1200 (47)	1500 (59)
Power kW (HP)		90 (125)	110 (150)	75 (100)	110 (150)	160 (200)	160 (200)	160 (200)	200 (250)	200 (300)	250 (350)	400 (500)
Speed (rpm)		330	300	350	260	260	230	220	220	220	220	200
Product size mm (in)	Closed side setting mm (in)	Mtph (Stph)	Mtph (Stph)	Mtph (Stph)	Mtph (Stph)	Mtph (Stph)	Mtph (Stph)	Mtph (Stph)	Mtph (Stph)	Mtph (Stph)	Mtph (Stph)	Mtph (Stph)
0-30	20			*								
0-1 1/8	3/4			*								
0-35	25	*	*	*								
0-1 3/8	1	*	*	*								
0-45	30	*	*	*								
0-1 3/4	1 1/8	*	*	*								
0-60	40	*	*	55-75	*	*	*					
0-2 3/8	1 5/8	*	*	60-80	*	*	*					
0-75	50	*	*	65-95	*	*	*					
0-3	2	*	*	75-100	*	*	*					
0-90	60	105-135	*	80-110	*	*	*					
0-3 1/2	2 3/8	115-150	*	90-120	*	*	*					
0-105	70	125-155	135-175	95-135	125-175	210-270	160-220					
0-4 1/8	2 3/4	135-170	150-190	110-145	140-190	230-295	175-240					
0-120	80	140-180	155-195	110-150	145-200	240-300	175-245	*				
0-4 3/4	3 1/8	155-200	170-215	120-165	160-215	260-330	195-270	*				
0-135	90	160-200	175-225	125-175	160-220	260-330	190-275	*	*	*		
0-5 3/8	3 1/2	175-220	195-245	140-190	175-240	285-360	215-300	*	*	*		
0-150	100	175-225	195-245	140-190	180-250	285-365	215-295	245-335	*	*	*	
0-6	4	195-250	210-270	150-210	200-275	315-400	235-325	270-370	*	*	*	
0-185	125	220-280	245-315	175-245	220-310	345-435	260-360	295-405	325-445	335-465	*	*
0-7	5	240-310	270-345	195-270	245-340	375-480	285-395	325-445	355-490	370-510	*	*
0-225	150	265-335	295-375	210-290	265-365	405-515	310-430	345-475	380-530	395-545	430-610	*
0-9	6	290-370	325-410	230-320	290-400	445-565	340-470	380-525	420-580	435-600	475-670	*
0-260	175	310-390	345-435	245-335	310-430	465-595	350-490	395-545	435-605	455-625	495-695	630-890
0-10	7	340-430	380-480	270-370	340-470	515-650	390-540	435-600	480-665	500-690	545-765	695-980
0-300	200		390-500		355-490	530-670	405-555	445-615	495-685	510-710	560-790	710-1000
0-12	8		430-550		390-535	580-740	445-610	490-675	545-750	565-780	615-870	780-1100
0-340	225							495-685	550-760	570-790	625-880	785-1105
0-13	9							545-750	605-835	630-870	685-965	860-1215
0-375	250							545-755	610-840	630-870	685-965	865-1215
0-15	10							600-830	670-925	695-960	745-1060	950-1340
0-410	275									690-950	745-1055	940-1320
0-16	11									760-1045	820-1160	1030-1455
0-450	300										815-1145	1015-1435
0-18	12										895-1260	1120-1575

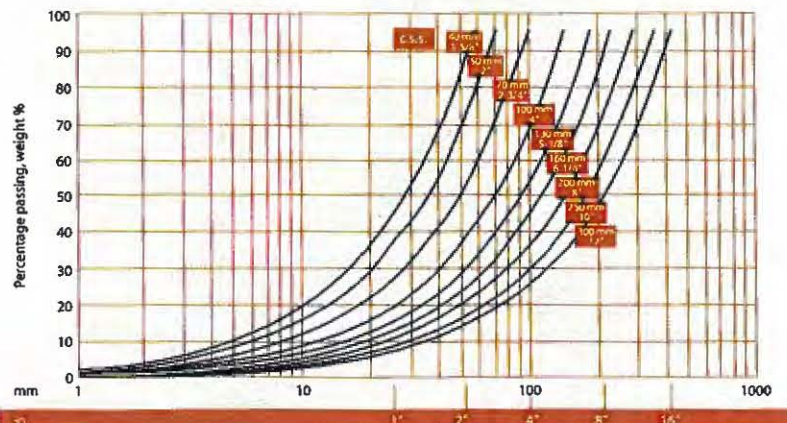
* Smaller closed side settings can be often used depending on application and production requirements. For a performance estimation for your specific application, please contact Metso Minerals.

The above figures represent through the crusher capacities, which are based on a feed material with an average specific gravity of 2.7 t/m³, a maximum feed size that will enter the crusher without bridging and material finer than the crushers closed side setting removed. The capacities may vary depending on the feeding method and on feed characteristics such as gradation, bulk density, moisture, clay content and crushability.

Measurement of the crusher's closed side setting varies depending on the jaw profile that is being used and has an impact on the crusher's capacity and product gradation. The following factors will enhance crusher capacity and performance:

1. Proper selection of the jaws.
2. Proper feed gradation.
3. Controlled feed rate.
4. Sufficient feeder capacity and width.
5. Adequate crusher discharge area.
6. Discharge conveyor sized to convey maximum crusher capacity.

Indicative product gradation



A Nordberg C110 jaw crusher in a stationary installation.