

Cedarapids

ElJay Rollercone®

Setting and Capacity Charts



Form14409(1/92)

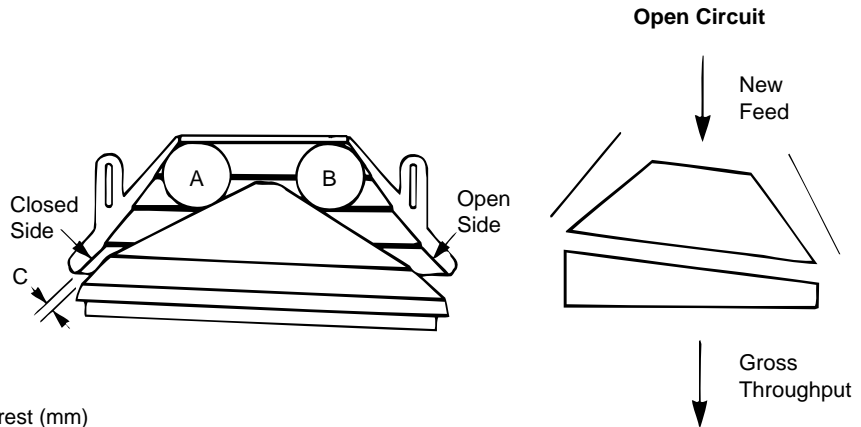
Charts show the average capacities in igneous rock (basalt, granites, etc.).

Feed openings are based on new manganese and ideal screening conditions. Due to the wear pattern, it is not possible to maintain a constant feed opening as takeup for wear occurs.

Under some conditions, when setting is too close, "pan-cakes" will form and the bowl will float. If this condition exists, the setting must be increased until bowl float is eliminated.

Data is offered as a guide only. Crushing characteristics of various rock and crusher operation will affect results.

Capacities based on material weight of 100 lbs./ft³ (1,602 kg/m³).



Standard Head Settings in inches & nearest (mm)

Size	Type of Cavity	Maximum			Minimum*		
		A	B	C	A	B	C
36" (914)	Med. Fine	4-5/8" (118)	5-3/8" (137)	1-5/8" (41)	3" (76)	3-3/4" (95)	3/8" (10)
	Coarse	7-1/4" (184)	8" (203)	1-3/4" (44)	5-3/4" (146)	6-1/2" (165)	1/2" (13)
45" (1143)	Med. Fine	5-7/8" (149)	6-3/4" (171)	2-3/4" (70)	3-1/2" (83)	4-1/8" (105)	1/2" (13)
	Coarse	9/5/8" (244)	10-3/8" (264)	2-7/8" (73)	7" (179)	7-3/4" (197)	5/8" (16)
54" (1372)	Med. Fine	6-5/8" (168)	7-5/8" (194)	2-3/4" (70)	3-3/4" (95)	4-7/8" (124)	1/2" (13)
	Med	7-7/8" (200)	9" (229)	2-3/4" (70)	5" (127)	6-1/8" (156)	1/2" (13)
	Coarse	12-1/2" (316)	13-1/4" (337)	2-7/8" (73)	10" (254)	10-3/4" (254)	3/4" (19)
60" (1524)	Med. Fine	8-7/8" (225)	9-7/8" (251)	3-1/2" (89)	5-1/2" (140)	6-3/8" (162)	5/8" (16)
	Med	10-3/8" (264)	11-1/8" (288)	3-1/2" (89)	8-1/4" (210)	9" (229)	3/4" (19)
	Coarse	12-1/2" (318)	13-1/4" (337)	4" (102)	10-3/4" (273)	11-1/2" (292)	7/8" (22)
66" (1676)	Med Fine	10-15/16" (278)	12-1/8" (308)	3-7/8" (98)	7" (179)	8-1/8" (206)	3/4" (19)
	Med	12-3/4" (324)	13-15/16" (354)	3-7/8" (98)	9-1/16" (230)	10-1/4" (260)	1" (25)
	Coarse	14-1/8" (359)	14-7/8" (378)	4-1/8" (105)	12-1/4" (311)	13-1/8" (333)	1-1/2" (38)

*Minimum setting is just above the point where the bowl will float under maximum allowable pressure on the tramp iron relief system.

This setting can vary widely depending on nature and condition of material being crushed.

Standard Head Open Circuit Capacities Gross Throughput TPH in US & (metric)

Size	Type of Cavity	Closed Side Discharge Setting in Inches & nearest (mm)										
		3/8" (9)	7/16" (11)	1/2" (13)	5/8" (16)	3/4" (19)	7/8" (22)	1" (25)	1-1/4" (32)	1-1/2" (38)	1-3/4" (44)	2" (51)
36" (914)	Med Fine Coarse	36-42 (33-38)	38-52 (35-47)	44-60 (40-54)	55-70 (50-63)	65-80 (59-73)	72-85 (65-77)	79-94 (72-82)	85-105 (77-95)	91-110 (83-99)		
45" (1143)	Med Fine Coarse			70-87 (63-79)	87-106 (79-96)	105-126 (95-114)	177-144 (106-131)	125-154 (113-140)	135-170 (122-154)	140-180 (127-163)	145-185 (132-168)	150-188 (136-171)
54" (1524)	Med Fine Medium Coarse					170-225 (154-205)	185-240 (168-218)	200-275 (181-250)	225-310 (204-282)	245-340 (222-309)	260-360 (236-328)	270-380 (245-346)
60" (1524)	Med Fine Medium Coarse					235-290 (214-264)	255-315 (232-287)	290-340 (264-309)	325-390 (296-355)	355-425 (323-387)	375-455 (341-414)	390-475 (355-432)
66" (1676)	Med Fine Medium Coarse					300-345 (273-314)	320-375 (291-341)	350-430 (319-391)	400-460 (364-419)	440-525 (400-478)	470-580 (428-528)	490-580 (446-528)

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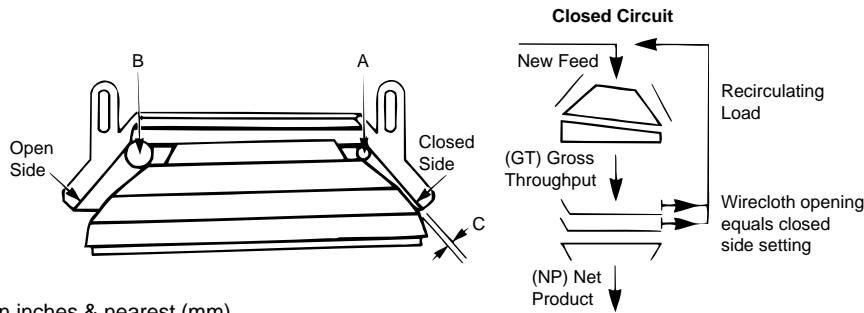
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Setting and Capacity Charts



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Fine Head Settings in inches & nearest (mm)

Size	Type of Cavity	Maximum			Minimum*		
		A	B	C	A	B	C
36" (914)	Fine	2-7/8" (73)	3-7/8" (96)	1-3/4" (44)	1-3/8" (35)	2-3/8" (60)	1/4" (6)
	Coarse	4-3/4" (121)	5-5/8" (144)	1-3/4" (44)	3" (76)	3-3/4" (95)	3/8" (10)
45" (1143)	Fine	3-1/8" (79)	4-1/4" (108)	2" (51)	1-3/8" (35)	2-1/2" (64)	1/4" (6)
	Coarse	5" (127)	6-1/8" (156)	2" (51)	3" (76)	4-1/4" (108)	3/8" (10)
54" (1372)	Fine	2-7/8" (73)	4-1/4" (108)	1-5/8" (41)	1-3/8" (35)	2-3/4" (70)	3/8" (10)
	Coarse	4-5/8" (117)	6" (152)	1-1/2" (38)	3-1/4" (83)	4-3/4" (121)	1/2" (13)
60" (1524)	Fine	3" (76)	4-1/4" (108)	1-3/4" (44)	1-1/2" (38)	2-3/4" (70)	1/4" (6)
	Coarse	5-7/16" (138)	6-1/2" (165)	3" (76)	3-7/16" (87)	4-5/8" (117)	1/2" (13)
66" (1676)	Ex. Fine	2-15/16" (75)	4-3/8" (111)	2" (51)	1" (25)	2-1/2" (64)	3/16" (5)
	Fine	3-15/16" (100)	5-3/16" (132)	2" (51)	2" (51)	3-5/8" (92)	5/16" (8)
	Coarse	5-15/16" (151)	7-5/16" (186)	3-3/8" (86)	3-3/4" (95)	5-1/4" (133)	1/2" (13)
	Ex. Coarse	7" (179)	8-1/2" (216)	3-3/8" (86)	5-1/8" (130)	6-5/8" (168)	3/4" (19)

*Minimum setting is just above the point where the bowl will float under maximum allowable pressure on the tramp iron relief system. This setting can vary widely depending on nature and condition of material being crushed.

Fine Head Capacities Gross Throughput (GT) and Net Product (NP) TPH in US & (metric)

		Closed Side Discharge Setting in Inches & nearest (mm)							
		1/4" (6)	5/16" (8)	3/8" (10)	1/2" (13)	5/8" (16)	3/4" (19)	7/8" (22)	1" (25)
Recirculating Load		18%	18%	20%	24%	25%	26%	28%	29.5%
36" (914)	GT	37-43 (33-39)	49-55 (44-50)	59-65 (54-59)	72-82 (65-75)	87-93 (79-84)	95-101 (86-92)	104-111 (94-101)	113-123 (103-112)
	NP	30-35 (27-32)	40-45 (36-41)	47-52 (43-47)	55-62 (50-56)	65-70 (59-63)	70-75 (63-68)	75-80 (68-73)	80-87 (73-79)
45" (1143)	GT	57-67 (52-61)	67-79 (61-72)	81-94 (73-85)	108-121 (98-110)	127-153 (115-139)	142-162 (129-147)	160-188 (145-171)	170-206 (154-187)
	NP	47-55 (43-50)	55-65 (50-59)	65-75 (59-68)	82-92 (74-83)	95-114 (86-104)	105-120 (95-109)	115-135 (104-122)	120-145 (109-132)
54" (1372)	GT		90-105 (82-96)	110-138 (100-126)	140-195 (127-178)	190-240 (173-218)	215-285 (196-259)	250-300 (228-273)	270-330 (246-300)
	NP		74-86 (67-78)	88-110 (80-100)	106-148 (97-135)	143-180 (130-164)	159-192 (145-175)	180-216 (164-196)	190-233 (173-212)
60" (1524)	GT		115-128 (105-114)	145-179 (132-163)	205-257 (187-234)	252-302 (229-275)	295-340 (269-309)	312-395 (284-360)	345-420 (314-382)
	NP		94-105 (86-96)	116-143 (106-130)	156-178 (142-162)	189-227 (172-207)	218-252 (198-229)	225-284 (205-258)	243-269 (221-245)
66" (1676)	GT		135-173 (123-157)	182-221 (166-201)	262-310 (238-282)	302-357 (275-325)	352-414 (320-377)	407-415 (370-378)	435-522 (396-475)
	NP		111-142 (101-129)	146-177 (133-161)	199-236 (181-215)	227-268 (207-244)	261-306 (238-279)	293-299 (267-272)	307-368 (279-335)

Design and specifications subject to change without notice. Design features may be covered by patents issued and/or patents applied for.