

CONE CRUSHERS

HP (High Performance) Series cone crushers feature a unique combination of crusher speed, throw, and cavity design. This combination has proved revolutionary in providing higher capacity and superior product quality, and in providing a wider range of application suitability. From lime- stone to taconite, from ballast production to manufactured sand, and from small portable plants, HP cone crushers provide unbeatable performance in secondary, tertiary, and quaternary applications.

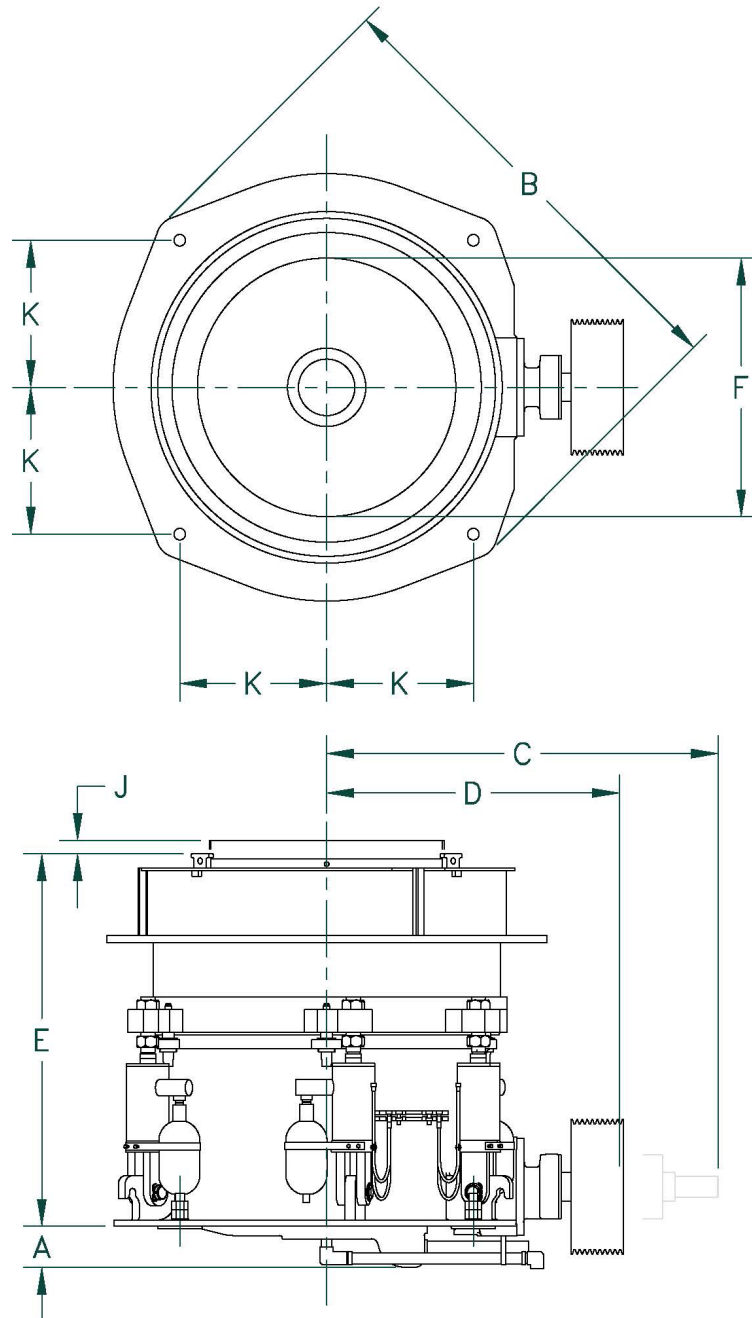
- Bronze bushings used throughout provide superior load capacity in the high-shock, dusty crushing environment
- All components are accessible from the top or the side
- Dual acting hydraulic tramp release cyclinders
- Can be converted from the finest to the coarsest cavity by replacing the mantle, bowl liner, adapter ring and wedge bolts
- Hydraulic Motors rotate the bowl for fine control setting adjustments
- Advanced liner retention technology increase reliability
- Excellent wear protection of all crusher components



WEIGHTS - COMPLETE CRUSHER AND ASSEMBLIES

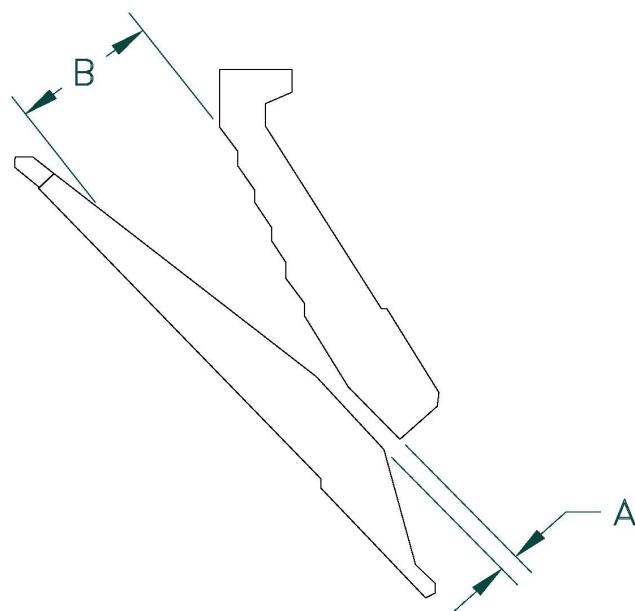
Size	LC200	LC300	LC400	LC500
Crusher Complete	10 400 kg	15 810 kg	23 000 kg	33 150 kg
	22 960 Lbs	33 490 Lbs	50 600 Lbs	73 000 Lbs
Bowl, Bowl Liner, Adj. Cap, Hopper	2 680 kg	3 525 kg	4 800 kg	7 200 kg
	5 915 Lbs	7 765 Lbs	10 575 Lbs	15 800 Lbs
Head Mantle and Feed Plate	1 200 kg	2 060 kg	3 240 kg	5 120 kg
	2 650 Lbs	4 550 Lbs	7 130 Lbs	11 280 Lbs
Maximum recommended Power	132 kW	200 kW	315 kW	355 kW
	200 HP	300 HP	400 HP	500 HP
Countershaft Speed-rpm	750-1200	700-1200	700-1000	700-950

CLEARANCE DIMENSIONS



Clearance dimensions				
Size	LC200	LC300	LC400	LC500
A - To bottom of oil piping	297 mm (11-11/16")	328 mm (12-15/16")	240 mm (9-1/2")	425 mm (16-3/4")
B - Adjustment ring maximum diameters	1 952 mm (76-7/8")	2 207 mm (86-7/8")	2 370 mm (93-3/8")	2 730 mm (107-1/2")
C - Clearance required for removing countershaft assembly	1 840 mm (72-7/16")	2 020 mm (79-1/2")	2 470 mm (97-1/4")	2 650 mm (104-3/8")
D - To end of countershaft	1 160 mm (45-11/16")	1 347 mm (53")	1 645 mm (64-3/4")	1 760 mm (69-1/4")
E - Maximum height to top	1 630 mm (64-3/4")	1 865 mm (73-7/16")	2 055 mm (80-7/8")	2 290 mm (90-1/8")
F - Inside diameter of feed hopper	914 mm (36")	1 078 mm (42-7/16")	1 308 mm (51-1/2")	1 535 mm (60-1/2")
Clearance required for removing bowl assembly	2 140 mm (84-1/4")	2 470 mm (97-1/4")	2 650 mm (104-3/8")	3 300 mm (29-7/8")
Clearance required for removing head assembly	2 165 mm (84-1/4")	2 455 mm (96-5/8")	2 715 mm (106-3/8")	3 165 mm (24-5/8")
J - Additional upward travel of feed hopper during clearing stroke	70 mm (2-3/4")	85 mm (3-3/8")	150 mm (4-1/8")	125 mm (4-15/16")
K - Mounting hole location	545mm (21-1/2")	660 mm (26")	830 mm (32-11/16")	882 mm (34-3/4")
Main frame discharge opening diameter	1 240 mm (48-13/16")	1 470 mm (57-7/8")	1 726 mm (68")	2 040 mm (80-1/2")

CRUSHER CAVITY SELECTION



Crusher size	Cavity	Standard		Short head	
		Minimum Setting "A" ¹	Feed Opening "B" ²	Minimum Setting "A" ¹	Feed Opening "B" ²
LC200	Extra Fine			6 mm (0.24")	10 mm (0.39")
	Fine	13 mm (0.52")	95 mm (3.74")	5 mm (0.20")	23 mm (0.90")
	Medium	17 mm (0.67")	125 mm (4.92")	6 mm (0.24")	54 mm (2.13")
	Coarse	19 mm (0.75")	185 mm (7.28")	10 mm (0.39")	76 mm (2.99")
	Extra Coarse				
LC300	Extra Fine			6 mm (0.24")	25 mm (0.98")
	Fine	13 mm (0.51")	107 mm (4.21")	6 mm (0.24")	22 mm (0.87")
	Medium	17 mm (0.67")	150 mm (5.91")	8 mm (0.31")	53 mm (2.09")
	Coarse	19 mm (0.75")	211 mm (8.31")	10 mm (0.39")	77 mm (3.03")
	Extra Coarse	25 mm (0.98")	233 mm (9.17")		
LC400	Extra Fine			6 mm (0.24")	52 mm (2.05")
	Fine	14 mm (0.55")	111 mm (4.37")	6 mm (0.24")	51 mm (2.00")
	Medium	20 mm (0.79")	198 mm (7.80")	8 mm (0.31")	52 mm (2.05")
	Coarse	25 mm (0.98")	252 mm (9.92")	10 mm (0.39")	92 mm (3.62")
	Extra Coarse	30 mm (1.18")	299 mm (11.77")		
LC500	Extra Fine			6 mm (0.24")	53 mm (2.09")
	Fine	16 mm (0.63")	133 mm (5.24")	8 mm (0.31")	52 mm (2.05")
	Medium	20 mm (0.79")	204 mm (8.03")	10 mm (0.39")	57 mm (2.24")
	Coarse	25 mm (0.98")	286 mm (11.26")	13 mm (0.51")	95 mm (3.74")
	Extra Coarse	30 mm (1.18")	335 mm (13.19")		

1 - The minimum setting is that at which the crusher will operate without causing ring bounce. Depending on the crusher characteristics of the rock, this setting can change.

2 - Feed opening "B" is at a minimum setting "A".

3 - Maximum feed size vary from 80 to 100% of "B" depending on machine size and material.

PRODUCT GRADATION AND CRUSHER CAPACITIES

Product Gradation Table (% passing through square mesh depending on the setting)													
	6 (1/4")	8 (5/16")	10 (3/8")	13 (1/2")	16 (5/8")	19 (3/4")	22 (7/8")	25 (1")	28 (1-1/8")	32 (1-1/4")	38 (1-1/2")	45 (1-3/4")	51 (2")
100 (4")	100	100	100	100	100	100	100	100	100	100	100	100	100
75 (3")	100	100	100	100	100	100	100	100	100	100	100	100	98
63 (2-1/2")	100	100	100	100	100	100	100	100	100	100	99	95	90
51 (2")	100	100	100	100	100	100	100	100	99	98	92	82	68
38 (1-1/2")	100	100	100	100	100	100	100	98	95	90	76	62	50
32 (1-1/4")	100	100	100	100	100	100	95	90	79	69	52	42	36
25 (1")	100	100	100	100	98	94	85	74	60	49	40	33	28
22 (7/8")	100	100	100	100	95	88	76	63	51	42	34	28	25
19 (3/4")	100	100	100	98	92	82	68	57	46	37	30	26	22
16 (5/8")	100	100	99	92	80	69	55	46	36	29	24	20	18
13 (1/2")	100	99	92	78	66	55	43	36	28	22	18	16	14
10 (3/8")	100	93	81	66	55	45	34	30	23	18	15	13	11
8 (5/16")	94	82	69	55	45	37	28	24	19	15	13	11	10
6 (1/4")	82	67	55	43	36	29	22	19	16	12	9	8	7
4 (#5)	65	49	40	32	26	21	16	14	11	9	7	6	5
2 (#8)	40	28	23	17	13	11	8	7	6	4	4	3	3

Crusher Capacities ¹												
Closed Setting												
Size	Ton/ hour	10 mm (3/8")	13 mm (1/2")	16 mm (5/8")	19 mm (3/4")	22 mm (7/8")	25 mm (1")	32 mm (1-1/4")	38 mm (1-1/2")	45 mm (1-3/4")	51 mm (2")	
LC200	Mtph	90-120	120-150	140-180	150-190	160-200	170-220	190-235	210-250			
	stph	100-130	130-165	155-200	165-210	175-220	185-240	210-260	230-275			
LC300	Mtph	115-140	150-185	180-220	200-240	220-260	230-280	250-320	300-380	350-440		
	stph	125-155	165-205	200-240	220-265	240-285	255-310	275-355	330-420	385-485		
LC400	Mtph	140-175	185-230	225-280	255-320	275-345	295-370	325-430	360-490	410-560	465-630	
	stph	155-195	205-255	250-310	280-355	305-380	325-410	360-475	395-545	450-625	510-700	
LC500	Mtph	175-220	230-290	280-350	320-400	345-430	365-455	405-535	445-605	510-700	580-790	
	stph	195-240	255-320	310-385	355-440	380-475	400-500	445-595	490-670	560-775	640-880	

1 - Represents capacity through crusher based "instantaneous" product sample.