



LIFTING CHARTS - Crawler Cranes

KOBELCO MODEL CK1000-III - 100 TON CAPACITY

Jib Rated Loads in Pounds

3 Counterweights + 2 Low Weights - Crawlers fully extended

80' Boom									90' Boom								
Load Radius (ft.)	30 ft Jib		40 ft Jib		50 ft Jib		60 ft Jib		Load Radius (ft.)	30 ft Jib		40 ft Jib		50 ft Jib		60 ft Jib	
	Offset Angle		Offset Angle		Offset Angle		Offset Angle			Offset Angle		Offset Angle		Offset Angle		Offset Angle	
	10°	30°	10°	30°	10°	30°	10°	30°		10°	30°	10°	30°	10°	30°	10°	30°
30	24,000 *								32	24,000 *							
32	24,000 *								34	24,000 *							
34	24,000 *		24,000 *						36	24,000 *		24,000 *					
36	24,000 *		24,000 *						38	24,000 *		24,000 *		20,000 *			
38	24,000 *	21,000 *	24,000 *		20,000 *				40	24,000 *	21,000 *	24,000 *		20,000 *			
40	24,000 *	21,000 *	24,000 *		20,000 *		18,000 *		45	24,000 *	21,000 *	24,000 *		20,000 *		18,000 *	
45	24,000 *	20,700 *	24,000 *	15,360 *	20,000 *		18,000 *		50	24,000 *	20,100 *	24,000 *	14,810 *	20,000 *		18,000 *	
50	24,000 *	19,510 *	24,000 *	14,480 *	20,000 *		17,850 *		55	24,000 *	19,020 *	23,890 *	14,020 *	19,550 *	11,300 *	16,970 *	
55	24,000 *	18,380 *	22,480 *	13,640 *	18,560 *	11,080 *	16,180 *		60	24,000 *	18,120 *	22,020 *	13,330 *	18,000 *	10,730 *	15,630 *	9,100 *
60	24,000 *	17,500 *	20,700 *	12,980 *	17,080 *	10,490 *	14,850 *	8,950 *	65	22,660	17,320 *	20,410 *	12,760 *	16,730 *	10,250 *	14,460 *	8,660 *
65	22,920	16,710 *	19,180 *	12,360 *	15,800 *	9,980 *	13,730 *	8,480 *	70	20,540	16,620 *	19,040 *	12,230 *	15,580 *	9,780 *	13,470 *	8,240 *
70	20,810	16,020 *	17,870 *	11,830 *	14,720 *	9,540 *	12,760 *	8,060 *	75	18,620	15,960 *	17,760 *	11,720 *	14,520 *	9,360 *	12,520 *	7,870 *
75	18,910	15,380 *	16,660 *	11,350 *	13,710 *	9,100 *	11,860 *	7,670 *	80	17,080	15,430 *	16,730 *	11,300 *	13,660 *	8,990 *	11,770 *	7,530 *
80	17,370	14,850 *	15,670 *	10,930 *	12,870 *	8,730 *	11,130 *	7,340 *	85	15,760	14,940 *	15,800 *	10,930 *	12,890 *	8,680 *	11,080 *	7,230 *
85	16,020		14,810 *	10,560 *	12,140 *	8,420 *	10,470 *	7,030 *	90	14,570		14,740	10,580 *	12,210 *	8,370 *	10,470 *	6,960 *
90	14,850		14,040 *	10,250 *	11,500 *	8,130 *	9,870 *	6,760 *	95	13,470		13,620	10,270 *	11,570 *	8,110 *	9,890 *	6,700 *
95	13,750		13,310 *		10,890 *	7,840 *	9,320 *	6,500 *	100	12,540		12,690		11,020 *	7,870 *	9,390 *	6,480 *
100	12,830		12,690 *		10,360 *	7,620 *	8,860 *	6,280 *	105	11,700		11,860		10,530 *	7,640 *	8,950 *	6,280 *
105			12,120		9,890 *		8,440 *	6,100 *	110			11,080		10,070 *		8,550 *	6,100 *
110			11,350 *		9,470 *		8,060 *	5,930 *	115			10,360		9,650 *		8,150 *	5,930 *
115					9,080 *		7,690 *		120					9,300 *		7,820 *	
120							7,380 *		125					8,970 *		7,530 *	
125							7,120 *		130							7,270 *	
									135							7,010 *	

100' Boom									110' Boom								
Load Radius (ft.)	30 ft Jib		40 ft Jib		50 ft Jib		60 ft Jib		Load Radius (ft.)	30 ft Jib		40 ft Jib		50 ft Jib		60 ft Jib	
	Offset Angle		Offset Angle		Offset Angle		Offset Angle			Offset Angle		Offset Angle		Offset Angle		Offset Angle	
	10°	30°	10°	30°	10°	30°	10°	30°		10°	30°	10°	30°	10°	30°	10°	30°
32	24,000 *								34	24,000 *							
34	24,000 *								36	24,000 *							
36	24,000 *		24,000 *						38	24,000 *		24,000 *					
38	24,000 *		24,000 *						40	24,000 *		24,000 *					
40	24,000 *		24,000 *		20,000 *				45	24,000 *	21,000 *	24,000 *		20,000 *		18,000 *	
45	24,000 *	21,000 *	24,000 *		20,000 *		18,000 *		50	24,000 *	21,000 *	24,000 *	15,360 *	20,000 *		18,000 *	
50	24,000 *	20,650 *	24,000 *	15,100 *	20,000 *		18,000 *		55	24,000 *	20,100 *	24,000 *	14,610 *	20,000 *		18,000 *	
55	24,000 *	19,570 *	24,000 *	14,320 *	20,000 *	11,500 *	17,720 *		60	24,000 *	19,220 *	24,000 *	13,970 *	19,810 *	11,150 *	17,040 *	
60	24,000 *	18,690 *	23,280 *	13,660 *	18,930 *	10,950 *	16,350 *		65	22,260	18,430 *	22,500	13,400 *	18,430 *	10,670 *	15,820 *	8,970 *
65	22,440	17,900 *	21,620 *	13,090 *	17,590 *	10,470 *	15,160 *	8,810 *	70	20,150	17,700 *	20,370	12,870 *	17,230 *	10,250 *	14,770 *	8,570 *
70	20,320	17,190 *	20,190 *	12,560 *	16,420 *	10,030 *	14,130 *	8,420 *	75	18,230	17,040 *	18,450	12,380 *	16,110 *	9,830 *	13,800 *	8,200 *
75	18,400	16,510 *	18,620	12,050 *	15,340 *	9,610 *	13,160 *	8,040 *	80	16,680	16,460 *	16,880	11,940 *	15,160 *	9,470 *	12,960 *	7,890 *
80	16,860	15,960 *	17,060	11,640 *	14,440 *	9,230 *	12,360 *	7,710 *	85	15,340	15,650	15,520	11,570 *	14,350 *	9,140 *	12,230 *	7,580 *
85	15,520	15,450 *	15,710	11,260 *	13,640 *	8,920 *	11,660 *	7,420 *	90	14,150	14,440	14,320	11,220 *	13,600 *	8,840 *	11,590 *	7,310 *
90	14,320	14,570	14,500	10,910 *	12,910 *	8,610 *	11,040 *	7,160 *	95	13,020	13,270	13,200	10,890 *	12,890 *	8,550 *	10,950 *	7,050 *
95	13,220	13,420	13,380	10,580 *	12,230 *	8,330 *	10,420 *	6,900 *	100	12,100	12,320	12,250	10,600 *	12,300 *	8,310 *	10,420 *	6,830 *
100	12,270		12,450	10,310 *	11,660 *	8,090 *	9,920 *	6,670 *	105	11,260		11,410	10,330 *	11,530	8,090 *	9,940 *	6,630 *
105	11,460		11,590		11,150 *	7,870 *	9,450 *	6,450 *	110	10,510		10,640	10,110 *	10,780	7,890 *	9,500 *	6,430 *
110	10,690		10,840		10,670 *	7,690 *	9,030 *	6,280 *	115	9,780		9,920		10,030	7,690 *	9,080 *	6,260 *
115	9,980		10,110		10,200 *		8,610 *	6,100 *	120	9,170		9,300		9,390		8,700 *	6,100 *
120			9,470		9,590		8,280 *	5,950 *	125	8,420 *		8,730		8,810		8,370 *	5,970 *
125			8,860 *		9,010		7,950 *		130			8,200		8,280		8,060 *	
130					8,480		7,670 *		135			7,420 *		7,800		7,780 *	
135					7,800 *		7,400 *		140					7,250 *		7,380	
140							7,140 *		145							6,960	
145							6,810 *		150							6,370 *	

STERLING CRANE

Jib Rated Loads in Pounds

3 Counterweights + 2 Low Weights - Crawlers fully extended

120' Boom									130' Boom								
Load Radius (ft.)	30 ft Jib		40 ft Jib		50 ft Jib		60 ft Jib		Load Radius (ft.)	30 ft Jib		40 ft Jib		50 ft Jib		60 ft Jib	
	Offset Angle		Offset Angle		Offset Angle		Offset Angle			Offset Angle		Offset Angle		Offset Angle		Offset Angle	
	10°	30°	10°	30°	10°	30°	10°	30°		10°	30°	10°	30°	10°	30°	10°	30°
36	24,000 *								38	24,000 *							
38	24,000 *								40	24,000 *							
40	24,000 *		24,000 *						45	24,000 *		24,000 *		20,000 *			
45	24,000 *	21,000 *	24,000 *		20,000 *				50	24,000 *	21,000 *	24,000 *		20,000 *		18,000 *	
50	24,000 *	21,000 *	24,000 *		20,000 *		18,000 *		55	24,000 *	20,980 *	24,000 *	15,100 *	20,000 *		18,000 *	
55	24,000 *	20,560 *	24,000 *	14,880 *	20,000 *		18,000 *		60	24,000 *	20,120 *	24,000 *	14,500 *	20,000 *	11,480 *	18,000 *	
60	24,000 *	19,680 *	24,000 *	14,240 *	20,000 *	11,330 *	17,720 *		65	21,730	19,350 *	22,000	13,930 *	20,010 *	11,020 *	17,100 *	
65	21,970	18,910 *	22,240	13,690 *	19,240 *	10,860 *	16,460 *	9,080 *	70	19,620	18,650 *	19,860	13,420 *	18,760 *	10,620 *	16,000 *	8,840 *
70	19,860	18,180 *	20,100	13,160 *	18,010 *	10,420 *	15,380 *	8,700 *	75	17,680	17,960 *	17,920	12,940 *	17,570 *	10,200 *	14,960 *	8,480 *
75	17,940	17,500 *	18,160	12,670 *	16,840 *	10,030 *	14,390 *	8,350 *	80	16,130	16,600	16,350	12,520 *	16,530	9,850 *	14,100 *	8,170 *
80	16,400	16,790	16,620	12,250 *	15,890 *	9,670 *	13,550 *	8,040 *	85	14,790	15,180	14,990	12,140 *	15,160	9,540 *	13,330 *	7,890 *
85	15,050	15,410	15,250	11,860 *	15,030 *	9,340 *	12,780 *	7,730 *	90	13,600	13,950	13,800	11,770 *	13,950	9,230 *	12,630 *	7,620 *
90	13,860	14,170	14,040	11,500 *	14,190	9,060 *	12,120 *	7,470 *	95	12,470	12,780	12,650	11,440 *	12,800	8,950 *	11,970 *	7,360 *
95	12,740	13,020	12,910	11,170 *	13,050	8,770 *	11,480 *	7,230 *	100	11,530	11,810	11,700	11,130 *	11,860	8,700 *	11,410 *	7,140 *
100	11,790	12,050	11,970	10,860 *	12,100	8,500 *	10,930 *	7,010 *	105	10,690	10,950	10,860	10,860 *	11,000	8,480 *	10,890 *	6,940 *
105	10,950	11,170	11,130	10,600 *	11,260	8,280 *	10,420 *	6,790 *	110	9,940	10,160	10,090	10,420	10,220	8,260 *	10,310	6,740 *
110	10,200		10,360	10,360 *	10,490	8,060 *	9,960 *	6,610 *	115	9,210		9,360	9,650	9,470	8,040 *	9,560	6,560 *
115	9,470		9,630	9,870	9,740	7,870 *	9,520 *	6,410 *	120	8,570		8,730	8,990	8,840	7,870 *	8,920	6,390 *
120	8,860		8,990		9,100	7,690 *	9,140 *	6,260 *	125	8,020		8,150		8,260	7,710 *	8,350	6,230 *
125	8,280		8,420		8,530	7,530 *	8,610	6,100 *	130	7,490		7,620		7,730	7,560 *	7,820	6,100 *
130	7,690 *		7,890		8,000		8,060	5,970 *	135	6,940 *		7,140		7,250		7,310	5,970 *
135	6,830 *		7,420		7,510		7,580	5,860 *	140	6,150 *		6,670		6,760		6,830	5,860 *
140			6,700 *		7,030		7,090		145			6,040 *		6,340		6,410	
145					6,540 *		6,670		150			5,370 *		5,860 *		6,040	
150					5,880 *		6,300		155					5,260 *		5,620 *	
155							5,730 *		160					4,650 *		5,040 *	
160							5,090 *		165							4,540 *	
									170							4,010 *	

140' Boom									150' Boom								
Load Radius (ft.)	30 ft Jib		40 ft Jib		50 ft Jib		60 ft Jib		Load Radius (ft.)	30 ft Jib		40 ft Jib		50 ft Jib		60 ft Jib	
	Offset Angle		Offset Angle		Offset Angle		Offset Angle			Offset Angle		Offset Angle		Offset Angle		Offset Angle	
	10°	30°	10°	30°	10°	30°	10°	30°		10°	30°	10°	30°	10°	30°	10°	30°
40	24,000 *								45	24,000 *		24,000 *					
45	24,000 *		24,000 *						50	24,000 *	21,000 *	24,000 *		20,000 *			
50	24,000 *	21,000 *	24,000 *		20,000 *				55	24,000 *	21,000 *	24,000 *		20,000 *		18,000 *	
55	24,000 *	21,000 *	24,000 *	15,320 *	20,000 *		18,000 *		60	23,800	20,890 *	24,000 *	14,920 *	20,000 *		18,000 *	
60	23,980	20,540 *	24,000 *	14,720 *	20,000 *		18,000 *		65	21,270	20,150 *	21,580	14,390 *	20,000 *	11,330 *	18,000 *	
65	21,450	19,770 *	21,730	14,170 *	20,000 *	11,170 *	17,700 *		70	19,150	19,440 *	19,420	13,910 *	19,640	10,930 *	17,120 *	9,060 *
70	19,330	19,060 *	19,590	13,690 *	19,480 *	10,780 *	16,570 *	8,950 *	75	17,210	17,810	17,480	13,420 *	17,680	10,530 *	16,040 *	8,700 *
75	17,390	17,940	17,650	13,180 *	17,850	10,380 *	15,520 *	8,590 *	80	15,670	16,200	15,890	13,000 *	16,090	10,200 *	15,160 *	8,420 *
80	15,850	16,330	16,090	12,760 *	16,260	10,030 *	14,630 *	8,310 *	85	14,300	14,790	14,520	12,630 *	14,700	9,870 *	14,350 *	8,130 *
85	14,480	14,940	14,720	12,380 *	14,880	9,720 *	13,840 *	8,020 *	90	13,110	13,530	13,310	12,270 *	13,490	9,590 *	13,620 *	7,890 *
90	13,290	13,690	13,510	12,030 *	13,660	9,430 *	13,130 *	7,760 *	95	11,990	12,360	12,190	11,920 *	12,340	9,300 *	12,450	7,620 *
95	12,160	12,540	12,360	11,680 *	12,520	9,120 *	12,450 *	7,510 *	100	11,040	11,390	11,240	11,610 *	11,390	9,060 *	11,500	7,400 *
100	11,220	11,550	11,410	11,370 *	11,570	8,880 *	11,680	7,270 *	105	10,200	10,510	10,380	10,820	10,530	8,810 *	10,640	7,200 *
105	10,380	10,690	10,580	10,970	10,710	8,660 *	10,820	7,070 *	110	9,430	9,720	9,610	10,030	9,760	8,590 *	9,850	7,010 *
110	9,630	9,890	9,810	10,180	9,940	8,440 *	10,050	6,870 *	115	8,700	8,970	8,860	9,230	9,010	8,390 *	9,100	6,830 *
115	8,900	9,120	9,060	9,410	9,190	8,220 *	9,300	6,700 *	120	8,090	8,310	8,240	8,570	8,370	8,200 *	8,460	6,650 *
120	8,260	8,480	8,420	8,730	8,550	8,040 *	8,660	6,520 *	125	7,510	7,710	7,670	7,950	7,780	8,020 *	7,870	6,500 *
125	7,690		7,840	8,130	7,980	7,870 *	8,060	6,370 *	130	6,980		7,140	7,400	7,250	7,620	7,340	6,370 *
130	7,180		7,310		7,450	7,710 *	7,530	6,230 *	135	6,500		6,630		6,740	7,090	6,830	6,210 *
135	6,700		6,830		6,940	7,250	7,030	6,100 *	140	6,010 *		6,170		6,260	6,590	6,340	6,080 *
140	6,060 *		6,370		6,450		6,540	5,970 *	145	5,420 *		5,750		5,840		5,930	5,970 *
145	5,400 *		5,880 *		6,040		6,120	5,860 *	150	4,820 *		5,220 *		5,460		5,530	5,880
150	4,760 *		5,290 *		5,640 *		5,730		155	4,250 *		4,690 *		4,980 *		5,150 *	
155			4,690 *		5,090 *		5,350 *		160	3,650 *		4,140 *		4,450 *		4,670 *	
160			4,070 *		4,540 *		4,820 *		165			3,610 *		3,990 *		4,230 *	
165					4,010 *		4,340 *		170					3,520 *		3,790 *	
170					3,500 *		3,880 *		175					3,060 *		3,370 *	

STERLING CRANE

Jib Rated Loads in Pounds

3 Counterweights + 2 Low Weights - Crawlers fully extended

160' Boom								170' Boom											
Load Radius (ft.)	30 ft Jib		40 ft Jib		50 ft Jib		60 ft Jib		Load Radius (ft.)	30 ft Jib		40 ft Jib		50 ft Jib		60 ft Jib			
	Offset Angle		Offset Angle		Offset Angle		Offset Angle			Offset Angle		Offset Angle		Offset Angle		Offset Angle			
	10°	30°	10°	30°	10°	30°	10°	30°		10°	30°	10°	30°	10°	30°	10°	30°		
45	24,000 *								45	24,000 *									
50	24,000 *		24,000 *						50	24,000 *		24,000 *							
55	24,000 *	21,000 *	24,000 *		20,000 *		18,000 *		55	24,000 *	21,000 *	24,000 *		20,000 *		18,000 *			
60	23,720	21,000 *	24,000 *	15,120 *	20,000 *		18,000 *		60	23,500	21,000 *	23,800	15,290 *	20,000 *		18,000 *			
65	21,180	20,500 *	21,470	14,590 *	20,000 *	11,440 *	18,000 *		65	20,940	20,830 *	21,250	14,770 *	20,000 *		18,000 *			
70	19,040	19,730	19,310	14,100 *	19,530	11,060 *	17,650 *	9,140 *	70	18,820	19,530	19,090	14,300 *	19,310	11,170 *	18,000 *			
75	17,100	17,720	17,370	13,640 *	17,570	10,670 *	16,570 *	8,810 *	75	16,880	17,520	17,150	13,840 *	17,350	10,800 *	17,080 *	8,900 *		
80	15,540	16,090	15,780	13,220 *	15,980	10,330 *	15,670 *	8,530 *	80	15,320	15,890	15,560	13,420 *	15,760	10,490 *	15,890	8,610 *		
85	14,190	14,680	14,410	12,850 *	14,590	10,030 *	14,700	8,240 *	85	13,950	14,480	14,170	13,050 *	14,370	10,180 *	14,500	8,350 *		
90	12,980	13,440	13,200	12,500 *	13,350	9,740 *	13,490	8,000 *	90	12,740	13,240	12,960	12,690 *	13,130	9,890 *	13,270	8,110 *		
95	11,860	12,270	12,050	12,140 *	12,210	9,450 *	12,340	7,760 *	95	11,610	12,050	11,810	12,360 *	11,990	9,610 *	12,100	7,870 *		
100	10,910	11,280	11,110	11,640	11,260	9,210 *	11,370	7,530 *	100	10,670	11,080	10,860	11,440	11,020	9,360 *	11,150	7,640 *		
105	10,070	10,400	10,250	10,730	10,400	8,970 *	10,490	7,310 *	105	9,810	10,200	10,000	10,530	10,160	9,120 *	10,270	7,450 *		
110	9,300	9,610	9,470	9,920	9,610	8,770 *	9,720	7,140 *	110	9,060	9,390	9,230	9,720	9,390	8,900 *	9,470	7,250 *		
115	8,550	8,840	8,730	9,120	8,860	8,550 *	8,970	6,940 *	115	8,310	8,610	8,480	8,920	8,610	8,680 *	8,730	7,050 *		
120	7,930	8,200	8,090	8,460	8,220	8,350 *	8,310	6,790 *	120	7,670	7,980	7,840	8,240	7,980	8,500	8,090	6,900 *		
125	7,360	7,580	7,510	7,840	7,620	8,090	7,730	6,610 *	125	7,090	7,360	7,270	7,640	7,400	7,890	7,490	6,740 *		
130	6,830	7,030	6,960	7,270	7,090	7,510	7,180	6,480 *	130	6,560	6,810	6,720	7,070	6,850	7,310	6,940	6,590 *		
135	6,320		6,480	6,760	6,590	6,980	6,670	6,340 *	135	6,080	6,300	6,230	6,540	6,340	6,760	6,450	6,450 *		
140	5,860		5,990	6,260	6,100	6,450	6,190	6,210 *	140	5,590		5,750	6,040	5,860	6,260	5,950	6,300 *		
145	5,310 *		5,570		5,680	5,990	5,770	6,080 *	145	5,040 *		5,290 *	5,590	5,440	5,790	5,530	5,970		
150	4,760 *		5,090 *		5,290	5,570	5,370	5,750	150	4,540 *		4,780 *		4,960 *	5,370	5,070 *	5,550		
155	4,230 *		4,580 *		4,800 *		4,960 *	5,350	155	4,030 *		4,320 *		4,490 *	4,930 *	4,620 *	5,150		
160	3,680 *		4,050 *		4,320 *		4,490 *	4,960	160	3,520 *		3,810 *		4,030 *		4,160 *	4,670 *		
165	3,170 *		3,590 *		3,880 *		4,050 *		165	3,040 *		3,370 *		3,610 *		3,760 *	4,250 *		
170			3,100 *		3,430 *		3,650 *		170					3,190 *		3,370 *			
175					3,020 *		3,240 *												

180' Boom								190' Boom											
Load Radius (ft.)	30 ft Jib		40 ft Jib		50 ft Jib		60 ft Jib		Load Radius (ft.)	30 ft Jib		40 ft Jib		50 ft Jib		60 ft Jib			
	Offset Angle		Offset Angle		Offset Angle		Offset Angle			Offset Angle		Offset Angle		Offset Angle		Offset Angle			
	10°	30°	10°	30°	10°	30°	10°	30°		10°	30°	10°	30°	10°	30°	10°	30°		
50	22,200 *								50	22,200 *									
55	21,750 *	21,000 *	21,670 *		20,000 *				55	21,750 *	21,000 *	21,670 *		20,000 *					
60	21,360 *	20,870 *	21,270 *		20,000 *		18,000 *		60	21,360 *	20,870 *	21,270 *		20,000 *		18,000 *			
65	20,700	20,500 *	20,870 *	14,940 *	20,000 *		18,000 *		65	20,700	20,500 *	20,870 *	14,940 *	20,000 *		18,000 *			
70	18,560	19,310	18,840	14,480 *	19,060	11,300 *	18,000 *		70	18,560	19,310	18,840	14,480 *	19,060	11,300 *	18,000 *			
75	16,600	17,300	16,880	14,020 *	17,100	10,930 *	17,230	8,990 *	75	16,600	17,300	16,880	14,020 *	17,100	10,930 *	17,230	8,990 *		
80	15,030	15,670	15,290	13,620 *	15,490	10,600 *	15,650	8,700 *	80	15,030	15,670	15,290	13,620 *	15,490	10,600 *	15,650	8,700 *		
85	13,660	14,240	13,910	13,240 *	14,100	10,310 *	14,240	8,460 *	85	13,660	14,240	13,910	13,240 *	14,100	10,310 *	14,240	8,460 *		
90	12,470	13,000	12,690	12,890 *	12,890	10,030 *	13,020	8,200 *	90	12,470	13,000	12,690	12,890 *	12,890	10,030 *	13,020	8,200 *		
95	11,330	11,810	11,550	12,210	11,720	9,740 *	11,860	7,950 *	95	11,330	11,810	11,550	12,210	11,720	9,740 *	11,860	7,950 *		
100	10,380	10,820	10,600	11,190	10,750	9,500 *	10,890	7,760 *	100	10,380	10,820	10,600	11,190	10,750	9,500 *	10,890	7,760 *		
105	9,540	9,940	9,740	10,290	9,890	9,280 *	10,000	7,530 *	105	9,540	9,940	9,740	10,290	9,890	9,280 *	10,000	7,530 *		
110	8,770	9,140	8,970	9,470	9,100	9,060 *	9,230	7,360 *	110	8,770	9,140	8,970	9,470	9,100	9,060 *	9,230	7,360 *		
115	8,020	8,370	8,200	8,680	8,350	8,840 *	8,460	7,160 *	115	8,020	8,370	8,200	8,680	8,350	8,840 *	8,460	7,160 *		
120	7,380	7,710	7,560	8,000	7,710	8,280	7,820	7,010 *	120	7,380	7,710	7,560	8,000	7,710	8,280	7,820	7,010 *		
125	6,810	7,090	6,980	7,380	7,120	7,640	7,230	6,850 *	125	6,810	7,090	6,980	7,380	7,120	7,640	7,230	6,850 *		
130	6,280	6,540	6,430	6,830	6,560	7,070	6,670	6,700 *	130	6,280	6,540	6,430	6,830	6,560	7,070	6,670	6,700 *		
135	5,770 *	6,040	5,950	6,300	6,080	6,540	6,150 *	6,540 *	135	5,770 *	6,040	5,950	6,300	6,080	6,540	6,150 *	6,540 *		
140	5,180 *	5,480 *	5,370 *	5,770	5,510 *	6,010	5,590 *	6,210	140	5,180 *	5,480 *	5,370 *	5,770	5,510 *	6,010	5,590 *	6,210		
145	4,650 *	4,960 *	4,870 *	5,260 *	5,020 *	5,510 *	5,110 *	5,700 *	145	4,650 *	4,960 *	4,870 *	5,260 *	5,020 *	5,510 *	5,110 *	5,700 *		
150	4,160 *		4,380 *	4,760 *	4,540 *	5,020 *	4,620 *	5,220 *	150	4,160 *		4,380 *	4,760 *	4,540 *	5,020 *	4,620 *	5,220 *		
155	3,680 *		3,920 *		4,100 *	4,560 *	4,210 *	4,760 *	155	3,680 *		3,920 *		4,100 *	4,560 *	4,210 *	4,760 *		
160	3,210 *		3,460 *		3,630 *	4,070 *	3,760 *	4,290 *	160	3,210 *		3,460 *		3,630 *	4,070 *	3,760 *	4,290 *		
165			3,040 *		3,240 *		3,370 *	3,880 *	165			3,040 *		3,240 *		3,370 *	3,880 *		
170							3,480 *		170							3,480 *			

Clamshell

Boom:

Welded lattice construction using tubular, high-tensile steel

Chords with pin connections between sections.

Basic boom length: 40 ft (12.2 m)

Max. boom length: 120 ft (36.6 m)

Limit on clamshell bucket weight: 4,600 lb (2,100 kg)

Optional tagline: hydraulic operated type and spring type

Boom Component Chart

Boom length ft (m)	Boom arrangement
40 (12.2)	Base-Tip
50 (15.2)	Base-A-Tip
60 (18.3)	Base-A-A-Tip, Base-B-Tip
70 (21.3)	Base-A-B-Tip
80 (24.4)	Base-A-A-B-Tip, Base-B-B-Tip
90 (27.4)	Base-A-C-Tip
100 (30.5)	Base-A-A-B-B-Tip, Base-A-A-C-Tip
110 (33.5)	Base-A-B-C-Tip
120 (36.6)	Base-A-A-B-C-Tip, Base-B-B-C-Tip

Base = Boom Base

Insert: A = 10 ft (3.05 m)

B = 20 ft (6.10 m)

C = 40 ft (12.2 m)

Tip = Boom Tip

1. Figures represent maximum allowable capacity, and assume level, ground and ideal working conditions.
2. Capacities are calculated at 66 % of the minimum tipping loads.
3. Capacities are maximum recommended by PCSA Standard #4. Allowances must be made by the user for such unfavorable conditions as a sort of uneven supporting surface, rapid cycle operations, or bucket suction.
4. The combined weight of the bucket and load must not exceed these capacities.
5. Boom length for clamshell operation should not exceed 120 ft (36.6 m).

Clamshell Capacity in Pounds

1 Counterweight only, No Low Weight - Crawlers fully extended

40' Boom			50' Boom			60' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
22.0	63.7	22,000 *	26.0	64.3	22,000 *	30.0	64.6	22,000 *
24.0	60.5	22,000 *	28.0	61.7	22,000 *	32.0	62.5	22,000 *
26.0	57.1	22,000 *	30.0	59.0	22,000 *	34.0	60.3	21,400 *
28.0	53.5	22,000 *	32.0	56.3	22,000 *	36.0	58.1	20,200 *
30.0	49.8	22,000 *	34.0	53.5	21,400 *	38.0	55.8	19,200 *
32.0	45.9	22,000 *	36.0	50.5	20,200 *	40.0	53.4	18,200 *
34.0	41.7	21,400 *	38.0	47.4	19,200 *	42.0	51.0	17,300 *
36.0	37.0	20,200 *	40.0	44.2	18,200 *	44.0	48.4	16,500 *
38.0	31.8	19,200 *	42.0	40.7	17,300 *	46.0	45.8	15,800 *
40.0	25.7	18,200 *	44.0	37.0	16,500 *	48.0	43.0	15,200 *
			46.0	32.9	15,800 *	50.0	40.1	14,600 *
			48.0	28.3	15,200 *	52.0	37.0	14,000 *
						54.0	33.6	13,500 *
						56.0	29.9	13,000 *
						58.0	25.7	12,500 *

STERLING CRANE

Clamshell Capacity in Pounds

1 Counterweight only, No Low Weight - Crawlers fully extended

70' Boom			80' Boom			90' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
34.0	64.9	21,400 *	38.0	65.1	19,200 *	42.0	65.2	17,300 *
36.0	63.1	20,200 *	40.0	63.5	18,200 *	44.0	63.8	16,500 *
38.0	61.2	19,200 *	42.0	61.9	17,300 *	46.0	62.4	15,800 *
40.0	59.3	18,200 *	44.0	60.2	16,500 *	48.0	60.9	15,200 *
42.0	57.4	17,300 *	46.0	58.6	15,800 *	50.0	59.5	14,600 *
44.0	55.4	16,500 *	48.0	56.9	15,200 *	52.0	58.0	14,000 *
46.0	53.4	15,800 *	50.0	55.1	14,600 *	54.0	56.4	13,500 *
48.0	51.3	15,200 *	52.0	53.3	14,000 *	56.0	54.9	13,000 *
50.0	49.1	14,600 *	54.0	51.5	13,500 *	58.0	53.3	12,500 *
52.0	46.9	14,000 *	56.0	49.6	13,000 *	60.0	51.7	12,100 *
54.0	44.6	13,500 *	58.0	47.7	12,500 *	62.0	50.0	11,700 *
56.0	42.2	13,000 *	60.0	45.7	12,100 *	64.0	48.3	11,400 *
58.0	39.6	12,500 *	62.0	43.7	11,700 *	66.0	46.6	11,000 *
60.0	37.0	12,100 *	64.0	41.5	11,400 *	68.0	44.8	10,700 *
62.0	34.1	11,700 *	66.0	39.3	11,000 *	70.0	43.0	10,400 *
64.0	31.0	11,400 *	68.0	37.0	10,700 *	72.0	41.0	10,100 *
66.0	27.6	11,000 *	70.0	34.5	10,400 *	74.0	39.0	9,700
			72.0	31.8	10,100 *	76.0	36.9	9,200
			74.0	28.9	9,800 *	78.0	34.7	9,000
			76.0	25.7	9,400 *	80.0	32.4	8,500
						82.0	29.9	8,300
						84.0	27.2	7,900
100' Boom			110' Boom			120' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
46.0	65.4	15,800 *	56.0	62.0	11,900 *	56.0	64.5	11,400 *
48.0	64.1	15,200 *	58.0	60.8	11,700 *	58.0	63.4	11,300 *
50.0	62.8	14,600 *	60.0	59.6	11,600 *	60.0	62.3	11,200 *
52.0	61.5	14,000 *	62.0	58.3	11,300 *	62.0	61.3	11,000 *
54.0	60.2	13,500 *	64.0	57.1	11,100 *	64.0	60.2	10,800 *
56.0	58.8	13,000 *	66.0	55.8	10,800 *	66.0	59.0	10,600 *
58.0	57.5	12,500 *	68.0	54.6	10,400 *	68.0	57.9	10,200 *
60.0	56.1	12,100 *	70.0	53.3	10,100	70.0	56.8	9,900
62.0	54.7	11,700 *	72.0	52.0	9,700	72.0	55.6	9,500
64.0	53.3	11,400 *	74.0	50.6	9,300	74.0	54.5	9,100
66.0	51.8	11,000 *	76.0	49.2	8,900	76.0	53.3	8,800
68.0	50.4	10,700 *	78.0	47.8	8,500	78.0	52.1	8,400
70.0	48.8	10,300	80.0	46.4	8,200	80.0	50.8	8,100
72.0	47.3	9,900	82.0	45.0	7,900	82.0	49.6	7,700
74.0	45.7	9,400	84.0	43.4	7,500	84.0	48.3	7,400
76.0	44.1	9,000	86.0	41.9	7,200	86.0	47.0	7,100
78.0	42.4	8,800	88.0	40.3	7,000	88.0	45.7	6,800
80.0	40.6	8,300	90.0	38.6	6,800	90.0	44.3	6,600
82.0	38.8	8,100	92.0	36.9	6,600	92.0	42.9	6,400
84.0	36.9	7,700	94.0	35.1	6,400	94.0	41.5	6,200
86.0	35.0	7,400	96.0	33.3	6,200	96.0	40.0	6,000
88.0	32.9	7,200	98.0	31.3	5,900	98.0	38.5	5,700
90.0	30.7	7,000	100.0	29.2	5,700	100.0	36.9	5,500
92.0	28.3	6,800	102.0	27.0	5,500	102.0	35.3	5,300
94.0	25.8	6,600	104.0	24.5	5,300	104.0	33.6	5,100
						106.0	31.8	5,000