



LIFTING CHARTS - Crawler Cranes

KOBELCO MODEL CK850-III - 85 TON CAPACITY

Jib Rated Loads in Pounds

2 Counterweights + 2 Low Weights - Crawlers fully extended

80' Boom									80' Boom								
Load Radius (ft.)	30' Jib				40' Jib				Load Radius (ft.)	50' Jib				60' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset			10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)		Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)
30	79.3	24,000 *							38	79.3	20,000 *						
32	78.0	24,000 *							40	78.4	20,000 *			79.8	18,000 *		
34	77.0	24,000 *			79.3	24,000 *			45	76.1	20,000 *			77.7	17,940 *		
36	75.9	24,000 *			78.3	24,000 *			50	73.8	18,540 *			75.6	16,330 *		
38	74.9	24,000 *	79.6	20,230 *	77.4	24,000 *			55	71.3	16,950 *	78.0	11,080 *	73.3	14,900 *		
40	73.8	24,000 *	78.5	19,730 *	76.4	24,000 *			60	68.9	15,690 *	75.5	10,490 *	71.2	13,750 *	78.7	8,950 *
45	71.1	24,000 *	75.7	18,600 *	73.9	24,000 *	79.7	15,360 *	65	66.5	14,610 *	73.0	9,980 *	69.0	12,780 *	76.4	8,480 *
50	68.3	24,000 *	72.8	17,610 *	71.4	22,150 *	77.1	14,480 *	70	64.0	13,660 *	70.4	9,540 *	66.7	11,900 *	74.1	8,060 *
55	65.3	23,890	69.7	16,710 *	68.7	20,280 *	74.3	13,640 *	75	61.3	12,760 *	67.6	9,100 *	64.2	11,110 *	71.5	7,670 *
60	62.3	21,340	66.7	15,960 *	66.1	18,800 *	71.6	12,980 *	80	58.7	12,030 *	64.8	8,730 *	61.9	10,440 *	69.0	7,340 *
65	59.3	19,200	63.6	15,290 *	63.4	17,520 *	68.8	12,360 *	85	56.0	11,390 *	62.0	8,420 *	59.5	9,850 *	66.5	7,030 *
70	56.2	17,410	60.3	14,700 *	60.6	16,400 *	65.9	11,830 *	90	53.2	10,800 *	59.0	8,130 *	57.0	9,320 *	63.9	6,760 *
75	52.8	15,780	56.7	14,150 *	57.6	15,360 *	62.7	11,350 *	95	50.0	10,250 *	55.6	7,840 *	54.2	8,810 *	60.9	6,500 *
80	49.3	14,460	53.1	13,710 *	54.6	14,520 *	59.6	10,930 *	100	46.9	9,780 *	52.3	7,620 *	51.5	8,390 *	58.1	6,280 *
85	45.7	13,330			51.5	13,470	56.3	10,560 *	105	43.6	9,360 *			48.7	8,020 *	55.0	6,100 *
90	41.8	12,320			48.3	12,450	52.9	10,250 *	110	40.0	8,990 *			45.7	7,670 *	51.8	5,930 *
95	37.2	11,370			44.6	11,500			115	35.8	8,640 *			42.3	7,340 *		
100	32.4	10,600			40.8	10,710			120					38.8	7,050 *		
105					36.7	10,000			125					35.1	6,810 *		

90' Boom									90' Boom								
Load Radius (ft.)	30' Jib				40' Jib				Load Radius (ft.)	50' Jib				60' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset			10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)		Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)
32	79.1	24,000 *							38	80.0	20,000 *						
34	78.1	24,000 *							40	79.2	20,030 *						
36	77.1	24,000 *			79.3	24,000 *			45	77.1	20,030 *			78.6	18,000 *		
38	76.2	24,000 *			78.4	24,000 *			50	75.0	19,400 *			76.6	17,040 *		
40	75.2	24,000 *	79.5	20,170 *	77.5	24,000 *			55	72.7	17,790 *	78.9	11,300 *	74.5	15,580 *		
45	72.7	24,000 *	77.0	19,060 *	75.2	24,000 *			60	70.5	16,510 *	76.7	10,730 *	72.5	14,410 *	79.5	9,100 *
50	70.2	24,000 *	74.4	18,120 *	72.9	23,320 *	78.2	14,810 *	65	68.3	15,380 *	74.4	10,250 *	70.5	13,400 *	77.4	8,660 *
55	67.5	23,690	71.6	17,210 *	70.4	21,400 *	75.6	14,020 *	70	66.1	14,390 *	72.0	9,780 *	68.4	12,520 *	75.3	8,240 *
60	64.9	21,120	68.9	16,460 *	68.1	19,880 *	73.2	13,330 *	75	63.6	13,490 *	69.5	9,360 *	66.1	11,680 *	72.9	7,870 *
65	62.2	19,000	66.1	15,800 *	65.6	18,560 *	70.7	12,760 *	80	61.3	12,720 *	67.0	8,990 *	64.0	11,000 *	70.7	7,530 *
70	59.4	17,190	63.3	15,210 *	63.2	17,370	68.1	12,230 *	85	58.8	12,050 *	64.5	8,680 *	61.8	10,400 *	68.4	7,230 *
75	56.4	15,560	60.2	14,660 *	60.4	15,740	65.3	11,720 *	90	56.3	11,440 *	61.8	8,370 *	59.5	9,850 *	66.0	6,960 *
80	53.5	14,240	57.1	14,190 *	57.8	14,410	62.5	11,300 *	95	53.6	10,860 *	58.9	8,110 *	57.1	9,320 *	63.4	6,700 *
85	50.4	13,090	53.9	13,330	55.1	13,240	59.7	10,930 *	100	50.9	10,380 *	56.1	7,870 *	54.7	8,880 *	60.9	6,480 *
90	47.1	12,100			52.3	12,230	56.7	10,580 *	105	48.0	9,850	53.1	7,640 *	52.2	8,480 *	58.3	6,280 *
95	43.4	11,150			49.1	11,280	53.4	10,270 *	110	45.0	9,210			49.6	8,110 *	55.5	6,100 *
100	39.7	10,360			46.0	10,490			115	41.7	8,570			46.7	7,760 *	52.4	5,930 *
105	35.6	9,650			42.7	9,760			120	38.2	8,040			43.8	7,450 *		
110					39.1	9,120			125	34.4	7,560			40.7	7,180 *		
115					35.0	8,500			130					37.4	6,940 *		
									135					33.8	6,720 *		

STERLING CRANE

Jib Rated Loads in Pounds

2 Counterweights + 2 Low Weights - Crawlers fully extended

100' Boom									100' Boom								
Load Radius Radius (ft.)	30' Jib				40' Jib				Load Radius (ft.)	50' Jib				60' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset			10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)		Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)
32	79.9	24,000 *							40	79.9	20,000 *						
34	79.0	24,000 *							45	78.0	20,000 *			79.3	18,000 *		
36	78.1	24,000 *			80.0	24,000 *			50	76.0	20,000 *			77.5	17,680 *		
38	77.2	24,000 *			79.2	24,000 *			55	73.9	18,580 *	79.7	11,500 *	75.5	16,200 *		
40	76.4	24,000 *			78.4	24,000 *			60	71.9	17,260 *	77.7	10,950 *	73.7	15,030 *		
45	74.1	24,000 *	78.0	19,480 *	76.3	24,000 *			65	69.9	16,110 *	75.5	10,470 *	71.8	13,990 *	78.3	8,810 *
50	71.8	24,000 *	75.7	18,560 *	74.2	24,000 *	79.1	15,100 *	70	67.8	15,120 *	73.4	10,030 *	69.9	13,090 *	76.3	8,420 *
55	69.3	23,450	73.2	17,650 *	71.9	22,480 *	76.7	14,320 *	75	65.6	14,170 *	71.1	9,610 *	67.8	12,250 *	74.2	8,040 *
60	67.0	20,870	70.7	16,930 *	69.7	20,920 *	74.5	13,660 *	80	63.4	13,380 *	68.8	9,230 *	65.8	11,550 *	72.1	7,710 *
65	64.5	18,730	68.2	16,260 *	67.5	18,950	72.2	13,090 *	85	61.2	12,690 *	66.5	8,920 *	63.8	10,910 *	70.0	7,420 *
70	62.1	16,930	65.7	15,670 *	65.3	17,150	69.9	12,560 *	90	59.0	12,050 *	64.2	8,610 *	61.7	10,360 *	67.9	7,160 *
75	59.4	15,290	62.9	15,100 *	62.8	15,490	67.3	12,050 *	95	56.5	11,130	61.6	8,330 *	59.5	9,810 *	65.5	6,900 *
80	56.7	13,970	60.2	14,300	60.4	14,150	64.9	11,640 *	100	54.1	10,310	59.1	8,090 *	57.3	9,340 *	63.2	6,670 *
85	54.0	12,830	57.4	13,110	58.0	13,000	62.4	11,260 *	105	51.6	9,590	56.4	7,870 *	55.1	8,920 *	60.9	6,450 *
90	51.2	11,810	54.5	12,050	55.5	11,970	59.8	10,910 *	110	49.0	8,950	53.7	7,690 *	52.7	8,550 *	58.4	6,280 *
95	48.1	10,860	51.2	11,060	52.8	11,020	56.9	10,580 *	115	46.1	8,310			50.2	8,170 *	55.7	6,100 *
100	45.0	10,070			50.1	10,200	54.0	10,310 *	120	43.2	7,780			47.7	7,820	53.1	5,950 *
105	41.7	9,360			47.2	9,500			125	40.2	7,290			45.1	7,340		
110	38.1	8,730			44.3	8,860			130	36.8	6,830			42.3	6,870		
115	34.0	8,130			40.9	8,220			135	33.2	6,430			39.4	6,480		
120					37.4	7,690			140					35.9	6,060		
125					33.7	7,230			145					32.4	5,730		

110' Boom									110' Boom								
Load Radius Radius (ft.)	30' Jib				40' Jib				Load Radius (ft.)	50' Jib				60' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset			10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)		Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)
34	79.8	24,000							45	78.8	20,000 *			80.0	18,000 *		
36	79.0	24,000							50	76.9	20,000 *			78.3	18,000 *		
38	78.2	24,000			79.9	24,000 *			55	75.0	19,330 *			76.4	16,820 *		
40	77.3	24,000			79.2	24,000 *			60	73.1	17,980 *	78.5	11,150 *	74.7	15,600 *		
45	75.3	24,000	79.0	19,860 *	77.2	24,000 *			65	71.2	16,820 *	76.5	10,670 *	72.9	14,570 *	79.1	8,970 *
50	73.2	24,000	76.8	18,930 *	75.3	24,000 *	79.9	15,360 *	70	69.3	15,800 *	74.6	10,250 *	71.1	13,640 *	77.2	8,570 *
55	70.9	23,320	74.5	18,070 *	73.2	23,500 *	77.7	14,610 *	75	67.2	14,830 *	72.4	9,830 *	69.2	12,780 *	75.2	8,200 *
60	68.7	20,740	72.2	17,350 *	71.2	20,960	75.6	13,970 *	80	65.2	14,020 *	70.4	9,470 *	67.3	12,050 *	73.3	7,890 *
65	66.5	18,580	70.0	16,680 *	69.1	18,800	73.5	13,400 *	85	63.2	12,960	68.3	9,140 *	65.5	11,410 *	71.4	7,580 *
70	64.3	16,770	67.7	16,090 *	67.1	16,970	71.4	12,870 *	90	61.2	11,920	66.1	8,840 *	63.6	10,840 *	69.4	7,310 *
75	61.8	15,140	65.1	15,520 *	64.8	15,340	69.1	12,380 *	95	58.9	10,950	63.8	8,550 *	61.5	10,270 *	67.2	7,050 *
80	59.4	13,820	62.7	14,170	62.7	13,990	66.9	11,940 *	100	56.7	10,160	61.5	8,310 *	59.5	9,780 *	65.2	6,830 *
85	57.0	12,670	60.2	12,980	60.5	12,830	64.6	11,570 *	105	54.5	9,430	59.2	8,090 *	57.5	9,360 *	63.0	6,630 *
90	54.5	11,660	57.6	11,920	58.2	11,810	62.2	11,220 *	110	52.2	8,770	56.7	7,890 *	55.4	8,840	60.9	6,430 *
95	51.8	10,710	54.8	10,930	55.7	10,840	59.7	10,890 *	115	49.7	8,130	54.0	7,690 *	53.1	8,200	58.4	6,260 *
100	49.1	9,920	52.0	10,110	53.3	10,050	57.1	10,470	120	47.2	7,600			50.9	7,640	56.1	6,100 *
105	46.3	9,210			50.8	9,320	54.5	9,700	125	44.5	7,120			48.6	7,160	53.6	5,970 *
110	43.3	8,570			48.2	8,680	51.8	9,010	130	41.8	6,650			46.2	6,700		
115	39.9	7,950			45.4	8,040			135	38.8	6,260			43.6	6,300		
120	36.5	7,420			42.5	7,510			140	35.4	5,860			40.8	5,880		
125	32.7	6,960			39.4	7,050			145					37.9	5,530		
130					36.1	6,610			150					34.8	5,220		
135					32.5	6,190											

STERLING CRANE

Jib Rated Loads in Pounds

2 Counterweights + 2 Low Weights - Crawlers fully extended

120' Boom								120' Boom									
Load Radius Radius (ft.)	30' Jib				40' Jib				Load Radius Radius (ft.)	50' Jib				60' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset			10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)		Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)
36	79.7	24,000 *							45	79.5	20,000 *						
38	79.0	24,000 *							50	77.7	20,000 *			78.9	18,000 *		
40	78.2	24,000 *			79.9	24,000 *			55	75.9	20,000 *			77.2	17,390 *		
45	76.3	24,000 *	79.7	20,190 *	78.1	24,000 *			60	74.2	18,690 *	79.2	11,330 *	75.6	16,180 *		
50	74.3	24,000 *	77.7	19,290 *	76.2	24,000 *			65	72.4	17,500 *	77.4	10,860 *	73.9	15,120 *	79.7	9,080 *
55	72.2	23,100	75.6	18,450 *	74.3	23,360	78.5	14,880 *	70	70.6	16,440 *	75.6	10,420 *	72.2	14,170 *	78.0	8,700 *
60	70.2	20,520	73.5	17,720 *	72.4	20,760	76.6	14,240 *	75	68.7	15,250	73.6	10,030 *	70.4	13,290 *	76.1	8,350 *
65	68.2	18,360	71.4	17,080 *	70.5	18,580	74.7	13,690 *	80	66.8	13,910	71.7	9,670 *	68.7	12,560 *	74.4	8,040 *
70	66.1	16,550	69.3	16,490 *	68.6	16,770	72.7	13,160 *	85	65.0	12,740	69.7	9,340 *	67.0	11,900 *	72.6	7,730 *
75	63.9	14,920	67.0	15,340	66.5	15,100	70.6	12,670 *	90	63.1	11,700	67.8	9,060 *	65.2	11,300 *	70.7	7,470 *
80	61.7	13,600	64.8	13,970	64.5	13,770	68.5	12,250 *	95	61.0	10,730	65.6	8,770 *	63.3	10,730 *	68.7	7,230 *
85	59.5	12,430	62.6	12,780	62.5	12,610	66.4	11,860 *	100	59.0	9,920	63.6	8,500 *	61.5	9,980	66.8	7,010 *
90	57.3	11,410	60.2	11,720	60.5	11,570	64.3	11,500 *	105	57.0	9,190	61.4	8,280 *	59.6	9,250	64.9	6,790 *
95	54.8	10,470	57.7	10,730	58.2	10,620	62.0	11,130	110	54.9	8,530	59.3	8,060 *	57.7	8,590	62.9	6,610 *
100	52.4	9,650	55.2	9,890	56.0	9,810	59.7	10,290	115	52.6	7,890	56.8	7,870 *	55.6	7,950	60.7	6,410 *
105	49.9	8,950	52.6	9,140	53.8	9,080	57.4	9,520	120	50.4	7,360	54.5	7,690 *	53.6	7,400	58.6	6,260 *
110	47.3	8,310			51.5	8,440	55.0	8,840	125	48.1	6,850	52.1	7,250	51.5	6,920	56.4	6,100 *
115	44.5	7,690			49.0	7,800	52.3	8,150	130	45.7	6,410			49.3	6,450	54.1	5,970 *
120	41.6	7,160			46.5	7,270			135	43.1	5,990			47.1	6,040	51.7	5,860 *
125	38.5	6,670			43.8	6,790			140	40.3	5,590			44.6	5,640		
130	35.3	6,230			41.1	6,320			145	37.4	5,240			42.2	5,290		
135	31.7	5,840			38.1	5,930			150	34.3	4,910			39.6	4,960		
140					34.7	5,530			155					36.8	4,650		
									160					33.6	4,340		

130' Boom								130' Boom									
Load Radius Radius (ft.)	30' Jib				40' Jib				Load Radius Radius (ft.)	50' Jib				60' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset			10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)		Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)
38	79.7	24,000 *							45	80.0	20,000 *						
40	79.0	24,000 *							50	78.4	20,000 *			79.5	18,000 *		
45	77.1	24,000 *			78.8	24,000 *			55	76.7	20,000 *			77.9	17,920 *		
50	75.3	24,000 *	78.5	19,620 *	77.1	24,000 *			60	75.1	19,330 *	79.9	11,480 *	76.3	16,710 *		
55	73.4	22,880	76.5	18,780 *	75.2	23,170	79.3	15,100 *	65	73.4	18,140 *	78.2	11,020 *	74.8	15,630 *		
60	71.5	20,300	74.6	18,070 *	73.5	20,540	77.5	14,500 *	70	71.7	16,710	76.5	10,620 *	73.2	14,680 *	78.7	8,840 *
65	69.6	18,140	72.7	17,430 *	71.7	18,380	75.7	13,930 *	75	69.9	15,030	74.6	10,200 *	71.5	13,800 *	76.9	8,480 *
70	67.7	16,330	70.7	16,860	69.9	16,550	73.8	13,420 *	80	68.2	13,690	72.8	9,850 *	69.9	13,050 *	75.3	8,170 *
75	65.6	14,680	68.6	15,140	68.0	14,880	71.8	12,940 *	85	66.5	12,520	71.0	9,540 *	68.3	12,360 *	73.6	7,890 *
80	63.6	13,350	66.6	13,770	66.2	13,550	69.9	12,520 *	90	64.7	11,480	69.2	9,230 *	66.6	11,570	71.9	7,620 *
85	61.6	12,210	64.5	12,580	64.3	12,380	68.0	12,140 *	95	62.8	10,510	67.2	8,950 *	64.8	10,580	70.0	7,360 *
90	59.6	11,170	62.4	11,530	62.4	11,350	66.1	11,770 *	100	61.0	9,700	65.3	8,700 *	63.1	9,760	68.3	7,140 *
95	57.3	10,220	60.1	10,510	60.3	10,380	63.9	10,950	105	59.1	8,950	63.4	8,480 *	61.4	9,030	66.5	6,940 *
100	55.2	9,430	57.9	9,700	58.3	9,560	61.9	10,090	110	57.2	8,310	61.4	8,260 *	59.6	8,370	64.6	6,740 *
105	52.9	8,700	55.6	8,950	56.3	8,860	59.8	9,340	115	55.1	7,670	59.2	8,040 *	57.7	7,730	62.6	6,560 *
110	50.6	8,060	53.2	8,260	54.2	8,200	57.6	8,640	120	53.1	7,120	57.1	7,600	55.9	7,180	60.7	6,390 *
115	48.1	7,450			51.9	7,560	55.2	7,980	125	51.0	6,630	54.9	7,070	54.0	6,670	58.7	6,230 *
120	45.6	6,920			49.7	7,030	52.9	7,400	130	48.8	6,170	52.6	6,590	52.0	6,230	56.6	6,100 *
125	43.0	6,430			47.4	6,540			135	46.6	5,750			50.0	5,820	54.5	5,970 *
130	40.2	5,990			45.0	6,080			140	44.1	5,350			47.8	5,400	52.2	5,840
135	37.3	5,570			42.5	5,680			145	41.7	5,000			45.6	5,040		
140	33.9	5,200			39.6	5,260			150	39.1	4,670			43.3	4,710		
145					36.8	4,930			155	36.3	4,360			41.0	4,400		
150					33.7	4,600			160	33.1	4,030			38.3	4,070		
									165					35.6	3,760		
									170					32.7	3,480		

STERLING CRANE

Jib Rated Loads in Pounds

2 Counterweights + 2 Low Weights - Crawlers fully extended

140' Boom									140' Boom								
Load Radius Radius (ft.)	30' Jib				40' Jib				Load Radius Radius (ft.)	50' Jib				60' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset			10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)		Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)
40	79.6	24,000 *							50	79.1	20,000 *						
45	77.9	24,000 *			79.4	24,000 *			55	77.4	20,000 *			78.5	18,000 *		
50	76.2	24,000 *	79.2	19,900 *	77.8	24,000 *			60	75.9	19,970 *			77.0	17,210 *		
55	74.4	22,680	77.4	19,090 *	76.1	22,970	79.9	15,320 *	65	74.3	18,360	78.8	11,170 *	75.6	16,130 *		
60	72.6	20,080	75.6	18,400 *	74.4	20,340	78.2	14,720 *	70	72.8	16,510	77.2	10,780 *	74.1	15,160 *	79.3	8,950 *
65	70.9	17,940	73.8	17,760 *	72.8	18,180	76.5	14,170 *	75	71.1	14,830	75.5	10,380 *	72.5	14,260 *	77.7	8,590 *
70	69.1	16,110	72.0	16,680	71.1	16,330	74.8	13,690 *	80	69.4	13,490	73.8	10,030 *	71.0	13,490 *	76.1	8,310 *
75	67.2	14,460	70.0	14,960	69.3	14,680	72.9	13,180 *	85	67.8	12,300	72.1	9,720 *	69.4	12,410	74.5	8,020 *
80	65.3	13,130	68.1	13,600	67.6	13,330	71.2	12,760 *	90	66.2	11,260	70.4	9,430 *	67.9	11,350	72.9	7,760 *
85	63.5	11,970	66.2	12,380	65.9	12,160	69.4	12,380 *	95	64.4	10,290	68.6	9,120 *	66.2	10,380	71.2	7,510 *
90	61.6	10,950	64.3	11,330	64.1	11,130	67.6	11,810	100	62.7	9,470	66.8	8,880 *	64.6	9,540	69.5	7,270 *
95	59.5	9,980	62.2	10,310	62.2	10,160	65.6	10,780	105	60.9	8,730	65.0	8,660 *	63.0	8,810	67.8	7,070 *
100	57.5	9,190	60.1	9,500	60.3	9,340	63.7	9,920	110	59.2	8,060	63.2	8,440 *	61.4	8,150	66.1	6,870 *
105	55.5	8,460	58.1	8,750	58.5	8,610	61.8	9,140	115	57.2	7,420	61.2	8,000	59.6	7,490	64.3	6,700 *
110	53.4	7,820	55.9	8,060	56.6	7,950	59.8	8,460	120	55.4	6,900	59.3	7,420	57.9	6,960	62.5	6,520 *
115	51.1	7,180	53.5	7,400	54.5	7,340	57.6	7,780	125	53.5	6,390	57.3	6,900	56.1	6,450	60.7	6,370 *
120	48.9	6,650	51.3	6,850	52.5	6,790	55.5	7,200	130	51.6	5,930	55.3	6,390	54.3	5,990	58.8	6,230 *
125	46.6	6,170			50.4	6,300	53.4	6,670	135	49.5	5,510	53.1	5,950	52.5	5,570	56.9	6,100 *
130	44.2	5,730			48.2	5,840			140	47.3	5,090			50.5	5,150	54.7	5,640
135	41.7	5,330			46.0	5,420			145	45.1	4,730			48.5	4,800	52.7	5,240
140	38.8	4,910			43.5	5,020			150	42.9	4,400			46.5	4,470		
145	36.0	4,560			41.1	4,670			155	40.5	4,030			44.4	4,100		
150	32.9	4,210			38.5	4,320			160	37.8	3,680			42.0	3,720		
155					35.7	3,940			165	35.1	3,370			39.7	3,410		
160					32.5	3,610			170	32.2	3,080			37.3	3,130		
									175					34.6	2,840		

150' Boom									150' Boom								
Load Radius Radius (ft.)	30' Jib				40' Jib				Load Radius Radius (ft.)	50' Jib				60' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset			10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)		Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)	Boom Angle Angle (deg.)	Rated Load Load (lbs.)
45	78.6	24,000 *			80.0	24,000 *			50	79.6	20,000 *						
50	77.0	24,000 *	79.9	20,170 *	78.5	24,000 *			55	78.1	20,000 *			79.1	18,000 *		
55	75.3	22,530	78.1	19,370 *	76.8	22,810			60	76.6	20,000 *			77.7	17,700 *		
60	73.6	19,920	76.4	18,690 *	75.3	20,190	78.9	14,920 *	65	75.1	18,200	79.4	11,330 *	76.3	16,600 *		
65	72.0	17,790	74.8	18,070 *	73.7	18,030	77.3	14,390 *	70	73.7	16,350	77.9	10,930 *	74.9	15,650 *	79.9	9,060 *
70	70.3	15,960	73.1	16,550	72.1	16,180	75.7	13,910 *	75	72.1	14,680	76.3	10,530 *	73.4	14,720 *	78.3	8,700 *
75	68.5	14,300	71.2	14,830	70.5	14,520	73.9	13,420 *	80	70.5	13,330	74.7	10,200 *	71.9	13,420	76.8	8,420 *
80	66.8	12,980	69.5	13,470	68.8	13,180	72.3	13,000 *	85	69.0	12,140	73.1	9,870 *	70.5	12,230	75.3	8,130 *
85	65.1	11,810	67.7	12,250	67.2	12,010	70.6	12,630 *	90	67.5	11,110	71.5	9,590 *	69.0	11,190	73.8	7,890 *
90	63.3	10,800	65.9	11,190	65.6	10,970	68.9	11,680	95	65.8	10,110	69.8	9,300 *	67.4	10,200	72.2	7,620 *
95	61.4	9,830	63.9	10,180	63.8	10,000	67.1	10,670	100	64.2	9,300	68.2	9,060 *	65.9	9,390	70.6	7,400 *
100	59.6	9,010	62.1	9,340	62.1	9,190	65.3	9,810	105	62.6	8,570	66.5	8,810 *	64.4	8,640	69.1	7,200 *
105	57.7	8,310	60.2	8,590	60.4	8,460	63.5	9,030	110	60.9	7,910	64.8	8,570	62.9	7,980	67.5	7,010 *
110	55.8	7,640	58.2	7,910	58.6	7,800	61.7	8,330	115	59.1	7,270	62.9	7,890	61.2	7,340	65.7	6,830 *
115	53.7	7,030	56.1	7,270	56.7	7,160	59.7	7,670	120	57.4	6,720	61.2	7,290	59.6	6,790	64.1	6,650 *
120	51.7	6,500	54.0	6,700	54.8	6,610	57.8	7,090	125	55.7	6,210	59.3	6,760	58.0	6,280	62.4	6,500 *
125	49.6	5,990	51.8	6,190	52.9	6,120	55.8	6,560	130	53.9	5,750	57.5	6,280	56.3	5,820	60.7	6,370 *
130	47.5	5,550			51.0	5,660	53.8	6,080	135	52.0	5,330	55.6	5,820	54.6	5,400	58.9	5,970
135	45.3	5,150			49.0	5,260			140	50.0	4,930	53.4	5,350	52.8	4,980	57.0	5,530
140	42.8	4,730			46.7	4,850			145	48.1	4,560			51.0	4,620	55.1	5,130
145	40.3	4,320			44.6	4,450			150	46.1	4,160			49.2	4,230	53.1	4,760
150	37.8	3,940			42.3	4,050			155	43.9	3,790			47.3	3,850		
155	35.0	3,590			39.9	3,700			160	41.6	3,430			45.2	3,480		
160	31.8	3,260			37.3	3,350			165	39.3	3,100			43.1	3,170		
165					34.6	3,040			170	36.8	2,820			41.0	2,860		
									175	34.2	2,550			38.7	2,600		

STERLING CRANE

Jib Rated Loads in Pounds

2 Counterweights + 2 Low Weights - Crawlers fully extended

160' Boom					160' Boom												
Load Radius (ft.)	30' Jib				40' Jib				Load Radius (ft.)	50' Jib				60' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset			10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)		Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)
45	79.2	24,000 *							55	78.7	20,000 *			79.6	18,000 *		
50	77.7	24,000 *			79.0	22,830 *			60	77.3	19,200 *			78.3	17,800 *		
55	76.1	22,350	78.8	19,640 *	77.5	22,000 *			65	75.9	18,030	80.0	11,440 *	76.9	17,060 *		
60	74.5	19,750	77.2	18,950 *	76.0	20,030	79.5	15,120 *	70	74.5	16,180	78.5	11,060 *	75.6	16,090 *		
65	73.0	17,590	75.6	18,290	74.6	17,850	78.0	14,590 *	75	72.9	14,500	77.0	10,670 *	74.2	14,610	78.9	8,810 *
70	71.4	15,760	74.0	16,400	73.1	16,000	76.4	14,100 *	80	71.5	13,130	75.5	10,330 *	72.8	13,240	77.5	8,530 *
75	69.7	14,100	72.3	14,680	71.5	14,320	74.8	13,640 *	85	70.1	11,940	74.0	10,030 *	71.4	12,050	76.1	8,240 *
80	68.1	12,780	70.7	13,290	70.0	12,980	73.2	13,220 *	90	68.6	10,910	72.5	9,740 *	70.0	11,000	74.6	8,000 *
85	66.5	11,610	69.0	12,080	68.4	11,810	71.7	12,630	95	67.0	9,920	70.9	9,450 *	68.5	10,000	73.1	7,760 *
90	64.8	10,580	67.3	11,020	66.9	10,780	70.1	11,530	100	65.5	9,100	69.3	9,210 *	67.1	9,190	71.6	7,530 *
95	63.0	9,630	65.5	10,000	65.2	9,780	68.4	10,510	105	64.0	8,370	67.8	8,970 *	65.7	8,440	70.2	7,310 *
100	61.3	8,810	63.8	9,170	63.6	8,970	66.7	9,650	110	62.5	7,690	66.2	8,420	64.2	7,780	68.7	7,140 *
105	59.6	8,090	62.0	8,420	62.0	8,240	65.1	8,880	115	60.8	7,050	64.5	7,730	62.7	7,140	67.0	6,940 *
110	57.9	7,450	60.2	7,730	60.4	7,580	63.4	8,170	120	59.2	6,500	62.8	7,140	61.2	6,590	65.5	6,790 *
115	55.9	6,810	58.2	7,070	58.6	6,940	61.5	7,490	125	57.6	6,010	61.1	6,610	59.7	6,080	63.9	6,610 *
120	54.1	6,280	56.3	6,520	56.9	6,410	59.8	6,920	130	55.9	5,550	59.4	6,100	58.1	5,620	62.3	6,280
125	52.2	5,770	54.4	5,990	55.1	5,900	58.0	6,390	135	54.2	5,130	57.6	5,640	56.5	5,180	60.7	5,820
130	50.3	5,330	52.4	5,530	53.3	5,440	56.1	5,900	140	52.4	4,670	55.7	5,200	54.8	4,760	58.9	5,350
135	48.2	4,890			51.5	5,020	54.2	5,440	145	50.6	4,250	53.8	4,800	53.2	4,320	57.1	4,960
140	46.0	4,400			49.5	4,560	52.1	5,000	150	48.7	3,850	51.9	4,430	51.5	3,920	55.4	4,580
145	43.9	4,010			47.5	4,140			155	46.8	3,480			49.7	3,540	53.6	4,230
150	41.6	3,610			45.5	3,740			160	44.8	3,100			47.8	3,170	51.5	3,810
155	39.3	3,260			43.4	3,370			165	42.7	2,790			46.0	2,860		
160	36.6	2,910			41.1	3,020			170					44.1	2,550		
165	33.9	2,600			38.8	2,710											

170' Boom					170' Boom												
Load Radius (ft.)	30' Jib				40' Jib				Load Radius (ft.)	50' Jib				60' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset			10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)		Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)
45	79.8	23,360 *							55	79.2	18,500 *			80.0	17,000 *		
50	78.3	22,830 *			79.6	20,800 *			60	77.9	17,800 *			78.8	16,400 *		
55	76.8	22,150	79.4	19,860 *	78.1	20,000 *			65	76.5	17,100 *			77.5	15,800 *		
60	75.3	19,550	77.9	19,220 *	76.7	19,200 *	80.0	15,290 *	70	75.2	15,980	79.1	11,170 *	76.2	15,200 *		
65	73.8	17,370	76.4	18,120	75.3	17,630	78.6	14,770 *	75	73.8	14,280	77.6	10,800 *	74.9	13,980 *	79.4	8,900 *
70	72.4	15,560	74.9	16,220	73.9	15,800	77.1	14,300 *	80	72.4	12,940	76.2	10,490 *	73.6	13,050	78.1	8,610 *
75	70.8	13,880	73.2	14,500	72.4	14,130	75.6	13,840 *	85	71.0	11,750	74.8	10,180 *	72.3	11,860	76.7	8,350 *
80	69.3	12,560	71.7	13,090	71.0	12,760	74.1	13,420 *	90	69.6	10,690	73.4	9,890 *	71.0	10,800	75.4	8,110 *
85	67.7	11,390	70.1	11,880	69.5	11,590	72.6	12,450	95	68.2	9,720	71.9	9,610 *	69.5	9,810	73.9	7,870 *
90	66.2	10,360	68.6	10,820	68.1	10,560	71.1	11,370	100	66.7	8,880	70.4	9,360 *	68.2	8,970	72.5	7,640 *
95	64.5	9,390	66.9	9,810	66.5	9,560	69.5	10,330	105	65.3	8,150	68.9	8,970	66.8	8,220	71.1	7,450 *
100	62.9	8,590	65.2	8,970	65.0	8,750	68.0	9,470	110	63.9	7,470	67.4	8,240	65.5	7,560	69.7	7,250 *
105	61.3	7,870	63.6	8,220	63.5	8,020	66.4	8,680	115	62.3	6,830	65.8	7,560	64.0	6,920	68.2	7,050 *
110	59.7	7,200	61.9	7,530	61.9	7,360	64.8	8,000	120	60.8	6,280	64.3	6,960	62.6	6,340	66.7	6,900 *
115	57.9	6,560	60.1	6,870	60.3	6,720	63.1	7,310	125	59.3	5,770	62.7	6,410	61.1	5,860	65.2	6,610
120	56.2	6,040	58.3	6,300	58.7	6,170	61.5	6,720	130	57.7	5,310	61.1	5,930	59.7	5,370	63.7	6,100
125	54.4	5,550	56.5	5,790	57.0	5,680	59.8	6,190	135	56.1	4,870	59.5	5,460	58.2	4,960	62.2	5,640
130	52.6	5,070	54.7	5,310	55.4	5,220	58.1	5,700	140	54.4	4,360	57.7	5,000	56.6	4,450	60.5	5,180
135	50.8	4,560	52.8	4,850	53.7	4,730	56.4	5,260	145	52.8	3,920	56.0	4,620	55.1	4,010	58.9	4,780
140	48.8	4,070			51.8	4,230	54.4	4,820	150	51.1	3,520	54.2	4,160	53.5	3,610	57.3	4,380
145	46.9	3,650			50.1	3,810	52.6	4,360	155	49.3	3,150	52.4	3,760	51.9	3,240	55.6	3,960
150	44.8	3,280			48.2	3,410			160	47.4	2,790			50.2	2,860	53.8	3,540
155	42.7	2,930			46.3	3,060			165					48.5	2,530	52.0	3,170
160	40.4	2,570			44.2	2,680											

STERLING CRANE

Jib Rated Loads in Pounds

2 Counterweights + 2 Low Weights - Crawlers fully extended

180' Boom										180' Boom									
Load Radius Radius (ft.)	30' Jib				40' Jib				Load Radius Radius (ft.)	50' Jib				60' Jib					
	10° Offset		30° Offset		10° Offset		30° Offset			10° Offset		30° Offset		10° Offset		30° Offset			
	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)		Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)		
50	78.9	19,770 *							55	79.7	17,000 *								
55	77.4	19,240 *	79.9	19,060 *	78.7	18,500 *			60	78.4	16,400 *			79.3	15,000 *				
60	76.0	18,760 *	78.5	18,580 *	77.3	17,800 *			65	77.1	15,800 *			78.0	14,500 *				
65	74.6	17,190	77.1	17,960	76.0	17,100 *	79.1	14,740 *	70	75.9	15,200 *	79.6	11,300 *	76.8	14,000 *				
70	73.2	15,360	75.6	16,070	74.7	15,630	77.7	14,460 *	75	74.5	13,980 *	78.2	10,930 *	75.5	13,500 *	79.9	8,990 *		
75	71.7	13,710	74.1	14,350	73.2	13,950	76.3	14,020 *	80	73.2	12,760	76.9	10,600 *	74.3	12,870	78.6	8,700 *		
80	70.3	12,360	72.6	12,940	71.9	12,580	74.9	13,580	85	71.9	11,570	75.5	10,310 *	73.0	11,680	77.3	8,460 *		
85	68.8	11,190	71.2	11,720	70.5	11,410	73.5	12,320	90	70.6	10,510	74.2	10,030 *	71.8	10,620	76.0	8,200 *		
90	67.4	10,180	69.7	10,640	69.1	10,360	72.1	11,220	95	69.2	9,520	72.7	9,740 *	70.4	9,630	74.6	7,950 *		
95	65.8	9,190	68.1	9,630	67.6	9,390	70.5	10,180	100	67.8	8,700	71.4	9,500 *	69.2	8,790	73.3	7,760 *		
100	64.3	8,390	66.5	8,790	66.2	8,570	69.1	9,320	105	66.5	7,950	70.0	8,810	67.9	8,040	72.0	7,530 *		
105	62.8	7,670	65.0	8,040	64.8	7,820	67.6	8,550	110	65.1	7,290	68.5	8,110	66.6	7,360	70.7	7,360 *		
110	61.3	7,010	63.4	7,360	63.3	7,160	66.1	7,840	115	63.6	6,630	67.0	7,400	65.2	6,720	69.2	7,160 *		
115	59.6	6,370	61.7	6,670	61.8	6,520	64.5	7,160	120	62.2	6,080	65.6	6,810	63.8	6,170	67.8	7,010 *		
120	58.0	5,840	60.1	6,120	60.3	5,970	63.0	6,560	125	60.8	5,570	64.1	6,260	62.5	5,660	66.4	6,480		
125	56.4	5,310	58.4	5,590	58.8	5,460	61.4	6,040	130	59.3	5,090	62.6	5,770	61.1	5,180	65.0	5,970		
130	54.7	4,780	56.7	5,110	57.2	4,960	59.8	5,550	135	57.8	4,580	61.1	5,310	59.7	4,670	63.6	5,480		
135	53.0	4,270	55.0	4,580	55.6	4,450	58.2	5,090	140	56.2	4,070	59.4	4,850	58.2	4,160	62.0	5,020		
140	51.2	3,790	53.1	4,070	53.9	3,940	56.4	4,580	145	54.7	3,630	57.8	4,380	56.8	3,720	60.5	4,620		
145	49.4	3,370	51.3	3,610	52.3	3,520	54.7	4,120	150	53.1	3,240	56.2	3,940	55.3	3,320	59.0	4,160		
150	47.6	2,970			50.6	3,130	53.0	3,680	155	51.5	2,860	54.5	3,520	53.8	2,930	57.5	3,740		
155	45.7	2,600			48.8	2,750			160			52.7	3,100	52.2	2,550	55.8	3,320		
									165							54.1	2,950		
									170							52.4	2,600		

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: 70 ft (21.3 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

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 70 ft (21.3 m).

Clamshell Capacity in Pounds									
1 Counterweight only, No Low Weight - Crawlers fully extended									
Load Radius (ft)	40' Boom		50' Boom		Load Radius (ft)	60' Boom		70' Boom	
	Boom Angle (deg.)	360° Rated Load (lbs)	Boom Angle (deg.)	360° Rated Load (lbs)		Boom Angle (deg.)	360° Rated Load (lbs)	Boom Angle (deg.)	360° Rated Load (lbs)
22.0	63.6	16,000 *			30.0	64.5	16,000 *		
24.0	60.3	16,000 *			32.0	62.4	16,000 *		
26.0	56.9	16,000 *	64.2	16,000 *	34.0	60.2	16,000 *	64.8	16,000 *
28.0	53.4	16,000 *	61.6	16,000 *	36.0	58.0	16,000 *	63.0	16,000 *
30.0	49.7	16,000 *	58.9	16,000 *	38.0	55.7	16,000 *	61.1	16,000 *
32.0	45.7	16,000 *	56.2	16,000 *	40.0	53.3	16,000 *	59.2	16,000 *
34.0	41.5	16,000 *	53.3	16,000 *	42.0	50.9	16,000 *	57.3	16,000 *
36.0	36.9	16,000 *	50.4	16,000 *	44.0	48.3	16,000 *	55.3	15,800 *
38.0	31.6	16,000 *	47.3	16,000 *	46.0	45.7	16,000 *	53.3	15,600 *
40.0	25.5	16,000 *	44.1	16,000 *	48.0	42.9	15,200 *	51.2	15,200 *
42.0			40.6	16,000 *	50.0	40.0	14,500 *	49.0	14,300 *
44.0			36.9	16,000 *	52.0	36.9	13,600	46.8	13,600 *
46.0			32.8	16,000 *	54.0	33.5	13,000	44.5	13,000 *
48.0			28.2	15,400 *	56.0	29.8	12,300	42.1	12,300 *
					58.0	25.6	11,900	39.6	11,600 *
					60.0			36.9	11,200 *
					62.0			34.0	10,800 *
					64.0			30.9	10,100 *
					66.0			27.5	9,700 *