



## LIFTING CHARTS - Crawler Cranes

### KOBELCO MODEL CK850-III - 85 TON CAPACITY

Main Boom Rated Loads in Pounds								
2 Counterweights + 2 Low Weights - 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)
10.0	81.7	170,000 *	12.0	81.1	166,400 *	13.0	81.6	154,200 *
11.0	80.3	170,000 *	13.0	79.9	154,400 *	14.0	80.7	143,800 *
12.0	78.8	166,600 *	14.0	78.8	144,000 *	15.0	79.7	134,700 *
13.0	77.4	154,600 *	15.0	77.6	134,900 *	16.0	78.7	126,700 *
14.0	75.9	144,200 *	16.0	76.4	126,900 *	17.0	77.7	119,500 *
15.0	74.4	135,100 *	17.0	75.2	119,700 *	18.0	76.8	113,000 *
16.0	72.9	127,100 *	18.0	74.0	113,200 *	19.0	75.8	105,460
17.0	71.4	119,900 *	19.0	72.8	105,660	20.0	74.8	97,130
18.0	69.9	113,400 *	20.0	71.6	97,350	22.0	72.8	83,790
19.0	68.3	105,820	22.0	69.2	84,010	24.0	70.8	73,560
20.0	66.7	97,500	24.0	66.7	73,810	26.0	68.7	65,490
22.0	63.6	84,190	26.0	64.2	65,760	28.0	66.6	58,970
24.0	60.3	74,000	28.0	61.6	59,230	30.0	64.5	53,570
26.0	56.9	65,980	30.0	58.9	53,850	32.0	62.4	49,030
28.0	53.4	59,480	32.0	56.2	49,310	34.0	60.2	45,170
30.0	49.7	54,100	34.0	53.3	45,480	36.0	58.0	41,840
32.0	45.7	49,580	36.0	50.4	42,150	38.0	55.7	38,950
34.0	41.5	45,740	38.0	47.3	39,280	40.0	53.3	36,410
36.0	36.9	42,460	40.0	44.1	36,750	45.0	47.0	31,230
38.0	31.6	39,590	45.0	34.9	31,590	50.0	40.0	27,290
40.0	25.5	34,830 *	50.0	22.7	26,890 *	55.0	31.7	24,200
						60.0	20.6	21,600 *
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)
14.0	82.0	143,600 *	16.0	81.6	126,300 *	17.0	81.9	118,820 *
15.0	81.2	134,500 *	17.0	80.8	119,100 *	18.0	81.2	112,400 *
16.0	80.3	126,500 *	18.0	80.1	112,600 *	19.0	80.6	105,220
17.0	79.5	119,300 *	19.0	79.4	105,290	20.0	79.9	96,870
18.0	78.7	112,800 *	20.0	78.6	96,930	22.0	78.6	83,480
19.0	77.8	105,400	22.0	77.2	83,550	24.0	77.3	73,230
20.0	77.0	97,060	24.0	75.7	73,320	26.0	76.0	65,140
22.0	75.3	83,700	26.0	74.2	65,230	28.0	74.7	58,570
24.0	73.6	73,470	28.0	72.7	58,680	30.0	73.4	53,150
26.0	71.9	65,380	30.0	71.2	53,260	32.0	72.0	48,580
28.0	70.1	58,840	32.0	69.7	48,690	34.0	70.7	44,700
30.0	68.4	53,430	34.0	68.1	44,840	36.0	69.3	41,380
32.0	66.6	48,890	36.0	66.6	41,490	38.0	68.0	38,440
34.0	64.8	45,030	38.0	65.0	38,580	40.0	66.6	35,890
36.0	63.0	41,680	40.0	63.4	36,020	45.0	63.0	30,660
38.0	61.1	38,800	45.0	59.3	30,820	50.0	59.4	26,670
40.0	59.2	36,240	50.0	55.0	26,820	55.0	55.6	23,520
45.0	54.3	31,040	55.0	50.5	23,670	60.0	51.6	20,960
50.0	49.0	27,070	60.0	45.6	21,140	65.0	47.4	18,870
55.0	43.3	23,960	65.0	40.3	19,060	70.0	42.9	17,100
60.0	36.9	21,450	70.0	34.4	17,350	75.0	37.9	15,630
65.0	29.3	19,420	75.0	27.3	15,890	80.0	32.3	14,370
						85.0	25.7	13,310

# STERLING CRANE

## Main Boom Rated Loads in Pounds

2 Counterweights + 2 Low Weights - Crawlers fully extended

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)
19.0	81.5	101,850 *	20.0	81.8	92,590 *	22.0	81.5	80,680 *
20.0	80.9	96,800	22.0	80.7	83,260	24.0	80.5	72,950
22.0	79.8	83,400	24.0	79.7	73,010	26.0	79.6	64,810
24.0	78.6	73,120	26.0	78.6	64,900	28.0	78.6	58,240
26.0	77.4	65,010	28.0	77.5	58,330	30.0	77.6	52,800
28.0	76.3	58,440	30.0	76.5	52,880	32.0	76.6	48,230
30.0	75.1	53,020	32.0	75.4	48,320	34.0	75.6	44,330
32.0	73.9	48,450	34.0	74.3	44,440	36.0	74.7	40,980
34.0	72.7	44,550	36.0	73.2	41,090	38.0	73.7	38,050
36.0	71.5	41,200	38.0	72.1	38,160	40.0	72.7	35,470
38.0	70.3	38,290	40.0	71.0	35,600	45.0	70.1	30,220
40.0	69.0	35,730	45.0	68.2	30,350	50.0	67.6	26,210
45.0	65.9	30,480	50.0	65.4	26,340	55.0	65.0	23,010
50.0	62.7	26,470	55.0	62.5	23,170	60.0	62.3	20,450
55.0	59.5	23,320	60.0	59.5	20,610	65.0	59.5	18,320
60.0	56.1	20,740	65.0	56.4	18,490	70.0	56.7	16,530
65.0	52.5	18,620	70.0	53.2	16,710	75.0	53.8	15,010
70.0	48.8	16,860	75.0	49.9	15,210	80.0	50.8	13,710
75.0	44.8	15,360	80.0	46.4	13,910	85.0	47.6	12,580
80.0	40.6	14,080	85.0	42.6	12,800	90.0	44.3	11,590
85.0	35.9	12,980	90.0	38.6	11,830	95.0	40.7	10,730
90.0	30.6	12,010	95.0	34.2	10,970	100.0	36.9	9,960
95.0	24.3	11,190	100.0	29.2	10,250	105.0	32.7	9,280
			105.0	23.2	9,610	110.0	27.9	8,680
						115.0	22.2	8,170
130' Boom			140' Boom			150' 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)
24.0	81.3	71,200 *	24.0	81.9	61,720 *	26.0	81.7	52,680 *
26.0	80.4	64,610	26.0	81.1	60,840 *	28.0	80.9	51,800 *
28.0	79.5	58,020	28.0	80.2	57,980	30.0	80.1	51,140 *
30.0	78.6	52,570	30.0	79.4	52,530	32.0	79.3	47,810
32.0	77.7	48,010	32.0	78.6	47,950	34.0	78.6	43,890
34.0	76.8	44,110	34.0	77.7	44,040	36.0	77.8	40,540
36.0	75.9	40,760	36.0	76.9	40,670	38.0	77.0	37,610
38.0	74.9	37,830	38.0	76.0	37,740	40.0	76.2	35,030
40.0	74.0	35,250	40.0	75.2	35,160	45.0	74.2	29,760
45.0	71.7	30,000	45.0	73.1	29,910	50.0	72.2	25,720
50.0	69.4	25,970	50.0	70.9	25,880	55.0	70.2	22,530
55.0	67.0	22,790	55.0	68.7	22,680	60.0	68.2	19,950
60.0	64.6	20,210	60.0	66.5	20,100	65.0	66.1	17,810
65.0	62.1	18,070	65.0	64.3	17,960	70.0	64.0	16,000
70.0	59.6	16,290	70.0	62.0	16,150	75.0	61.8	14,480
75.0	57.0	14,770	75.0	59.6	14,630	80.0	59.6	13,160
80.0	54.3	13,470	80.0	57.2	13,310	85.0	57.4	12,010
85.0	51.5	12,320	85.0	54.7	12,160	90.0	55.1	11,000
90.0	48.6	11,330	90.0	52.2	11,170	95.0	52.7	10,110
95.0	45.6	10,440	95.0	49.5	10,290	100.0	50.3	9,320
100.0	42.4	9,670	100.0	46.8	9,500	105.0	47.7	8,640
105.0	39.0	8,990	105.0	43.9	8,790	110.0	45.1	8,000
110.0	35.4	8,390	110.0	40.8	8,170	115.0	42.3	7,420
115.0	31.3	7,840	115.0	37.5	7,620	120.0	39.4	6,920
120.0	26.7	7,360	120.0	34.0	7,120	125.0	36.2	6,450
125.0	21.2	6,940	125.0	30.1	6,650	130.0	32.8	6,040
			130.0	25.7	6,260	135.0	29.1	5,660
			135.0	20.5	5,900	140.0	24.8	5,330

# STERLING CRANE

## Main Boom Rated Loads in Pounds

2 Counterweights + 2 Low Weights - Crawlers fully extended

160' Boom			170' Boom			180' 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)
28.0	81.5	44,090 *	28.0	82.0	38,800 *	30.0	81.8	33,730 *
30.0	80.7	43,430 *	30.0	81.3	38,130 *	32.0	81.1	33,060 *
32.0	80.0	42,760 *	32.0	80.6	37,470 *	34.0	80.5	32,620 *
34.0	79.3	42,100 *	34.0	79.9	37,030 *	36.0	79.8	31,960 *
36.0	78.6	40,520 *	36.0	79.2	36,370 *	38.0	79.2	31,520 *
38.0	77.8	37,560	38.0	78.6	35,710 *	40.0	78.5	31,080 *
40.0	77.1	34,980	40.0	77.9	34,780	45.0	76.9	29,250
45.0	75.2	29,710	45.0	76.1	29,510	50.0	75.3	25,220
50.0	73.4	25,680	50.0	74.4	25,460	55.0	73.6	22,000
55.0	71.5	22,480	55.0	72.6	22,260	60.0	72.0	19,400
60.0	69.6	19,880	60.0	70.9	19,660	65.0	70.3	17,260
65.0	67.7	17,720	65.0	69.1	17,520	70.0	68.6	15,450
70.0	65.7	15,930	70.0	67.2	15,710	75.0	66.8	13,910
75.0	63.7	14,390	75.0	65.4	14,170	80.0	65.1	12,560
80.0	61.7	13,070	80.0	63.5	12,850	85.0	63.3	11,410
85.0	59.7	11,920	85.0	61.6	11,680	90.0	61.5	10,400
90.0	57.6	10,910	90.0	59.7	10,670	95.0	59.7	9,500
95.0	55.4	10,000	95.0	57.7	9,780	100.0	57.8	8,700
100.0	53.2	9,210	100.0	55.7	8,990	105.0	55.9	8,000
105.0	50.9	8,500	105.0	53.6	8,260	110.0	54.0	7,340
110.0	48.6	7,870	110.0	51.5	7,620	115.0	52.0	6,760
115.0	46.1	7,290	115.0	49.3	7,050	120.0	49.9	6,230
120.0	43.6	6,760	120.0	47.0	6,520	125.0	47.8	5,700
125.0	40.9	6,280	125.0	44.7	6,040	130.0	45.6	5,220
130.0	38.1	5,860	130.0	42.2	5,570	135.0	43.3	4,780
135.0	35.0	5,440	135.0	39.6	5,150	140.0	40.9	4,380
140.0	31.8	5,070	140.0	36.9	4,760	145.0	38.4	4,030
145.0	28.1	4,710	145.0	34.0	4,380	150.0	35.8	3,680
150.0	24.0	4,380	150.0	30.8	4,050	155.0	33.0	3,370
			155.0	27.3	3,760	160.0	29.9	3,100
			160.0	23.3	3,500	165.0	26.5	2,840
						170.0	22.6	2,620

  

190' Boom			190' Boom			200' 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)
32.0	81.6	29,540 *	160.0	34.8	3,040	34.0	81.4	25,790 *
34.0	81.0	28,880 *	165.0	32.0	2,770	36.0	80.9	25,350 *
36.0	80.4	28,430 *	170.0	29.1	2,510	38.0	80.3	24,910 *
38.0	79.8	27,990 *				40.0	79.7	24,470 *
40.0	79.2	27,550 *				45.0	78.2	23,360 *
45.0	77.6	26,450 *				50.0	76.8	22,480 *
50.0	76.1	25,300				55.0	75.3	21,380 *
55.0	74.5	22,110				60.0	73.8	19,310
60.0	72.9	19,510				65.0	72.3	17,150
65.0	71.3	17,350				70.0	70.8	15,320
70.0	69.7	15,540				75.0	69.3	13,770
75.0	68.1	13,990				80.0	67.7	12,430
80.0	66.5	12,650				85.0	66.2	11,260
85.0	64.8	11,500				90.0	64.6	10,250
90.0	63.2	10,470				95.0	63.0	9,340
95.0	61.4	9,560				100.0	61.4	8,530
100.0	59.7	8,770				105.0	59.7	7,820
105.0	57.9	8,040				110.0	58.1	7,160
110.0	56.1	7,400				115.0	56.3	6,560
115.0	54.3	6,810				120.0	54.6	5,970
120.0	52.4	6,280				125.0	52.8	5,440
125.0	50.5	5,750				130.0	51.0	4,960
130.0	48.5	5,260				135.0	49.1	4,510
135.0	46.4	4,800				140.0	47.2	4,100
140.0	44.3	4,400				145.0	45.2	3,700
145.0	42.1	4,010				150.0	43.1	3,350
150.0	39.8	3,680				155.0	41.0	3,040
155.0	37.4	3,350				160.0	38.7	2,730