

STERLING CRANE



LIFTING CHARTS - Crawler Cranes

MANITOWOC MODEL 888 - 230 TON CAPACITY

LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 2

BOOM NO. 22EL
179,100 LB. CRANE COUNTERWEIGHT
44,000 LB. CARBODY COUNTERWEIGHT
28'2" CRAWLERS EXTENDED
RATING OVER FRONT OF BLOCKED CRAWLERS
NO TRAVEL - LIMITED SWING

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADIUS ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 75% OF A STATIC TIPPING LOAD OVER FRONT OF MACHINE WITH CRAWLERS EXTENDED AND BLOCKED. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (*).

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE IS 29,500 LBS. OR 59,000 LBS. WITH TWO PART WHIP LINE. WHEN BOOM BUTT MOUNTED AUXILIARY DRUM IS USED, CAPACITY WITH SINGLE PART WHIP LINE IS 20,000 LBS. OR 40,000 LBS. WITH TWO PART WHIP LINE. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR MAIN BOOM CAPACITY.

250' THRU 290' BOOM LENGTHS REQUIRE ONLY THE MIDDLE TWO SHEAVES IN LOWER BOOM POINT. ALL OTHER SHEAVES MUST BE REMOVED FROM LOWER BOOM POINT.

WEIGHT OF JIB, ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB POINT SHEAVES, IS CONSIDERED PART OF MAIN BOOM LOAD. BOOM IS NOT TO BE LOWERED BEYOND RADIUS WHERE COMBINED WEIGHTS ARE GREATER THAN RATED CAPACITY. WHERE NO CAPACITY IS SHOWN, OPERATION IS NOT INTENDED OR APPROVED.

MACHINE TO OPERATE IN A LEVEL POSITION ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH GANTRY UP, CRAWLERS FULLY EXTENDED, AND FRONT TUMBLER PROPERLY BLOCKED SO THAT CENTERLINE OF IDLER TUMBLER BECOMES TIPPING FULCRUM. DRIVE MOTORS MUST BE TO REAR OF MACHINE. SWING IS LIMITED TO THAT SECTOR SHOWN ON OPERATING RANGE DIAGRAM NO. 7770-A. REFER TO BOOM RIGGING NO. 177156 OR NO. 177353 AND WIRE ROPE SPECIFICATION CHART NO. 7810-A. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, WIND CONDITIONS, AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION. REFER TO OPERATORS MANUAL FOR OPERATING GUIDELINES.

OPERATING RADIUS IS HORIZONTAL DISTANCE FROM AXIS OF ROTATION TO CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK. BOOM ANGLE IS ANGLE BETWEEN HORIZONTAL AND CENTERLINE OF BOOM BUTT AND INSERTS, AND IS AN INDICATION OF OPERATING RADIUS. IN ALL CASES, OPERATING RADIUS SHALL GOVERN CAPACITY. BOOM POINT ELEVATION IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF BOOM POINT SHAFT.

MACHINE EQUIPPED WITH 28'2" EXTENDIBLE CRAWLERS, 48" TREADS, 10'3" RETRACTABLE GANTRY, 30' LIVE MAST, 20 PART BOOM HOIST REEVING, FOUR 1-3/8" BOOM PENDANTS, 179,100 LB. CRANE COUNTERWEIGHT AND 44,000 LB. CARBODY COUNTERWEIGHT.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED OVER FRONT OF BLOCKED CRAWLERS	
BOOM LENGTH	JIB NO. 134
(a) 290'	---
280'	---
270'	---
260'	50'
250'	80'

LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.
 (a) UPPER BOOM POINT CANNOT BE USED ON 290' BOOM.

DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
JIB LENGTH	JIB NO. 134
30'	2,700 LBS.
40'	3,500 LBS.
50'	4,300 LBS.
60'	5,100 LBS.
70'	6,100 LBS.
80'	7,100 LBS.

CONSULT JIB CHART FOR JIB CAPACITIES. UPPER BOOM POINT CANNOT BE USED WHEN JIB IS ATTACHED.

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
70	16	82.8	77.2	441,000*
	17	82.0	77.1	408,300*
	18	81.1	76.9	386,800*
	19	80.3	76.7	367,400*
	20	79.5	76.5	349,800*
	22	77.8	76.0	319,000*
	24	76.1	75.5	293,000*
	26	74.4	74.9	270,700*
	28	72.7	74.2	251,400*
	30	70.9	73.5	234,400*
	32	69.2	72.7	219,500*
	34	67.4	71.8	206,300*
	36	65.6	70.9	194,400*
	38	63.7	69.8	183,700*
	40	61.9	68.7	174,100*
	42	60.0	67.5	165,300*
44	58.0	66.2	157,200*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
70	46	56.0	64.9	149,900*
	48	54.0	63.4	143,100*
	50	51.9	61.7	136,800*
	55	46.3	57.1	123,100*
	60	40.1	51.4	109,200*
	65	32.9	44.2	97,100*
70	23.7	34.1	76,400*	
80	17	83.0	87.2	405,400*
	18	82.3	87.0	386,000*
	19	81.5	86.9	366,700*
	20	80.8	86.7	349,100*
	22	79.3	86.3	318,300*
	24	77.9	85.8	292,200*
	26	76.4	85.3	270,000*
	28	74.9	84.7	250,600*
30	73.4	84.1	233,700*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
80	32	71.9	83.4	218,800*
	34	70.4	82.7	205,600*
	36	68.8	81.9	193,700*
	38	67.3	81.0	183,100*
	40	65.7	80.0	173,400*
	42	64.1	79.0	164,600*
	44	62.4	78.0	156,600*
	46	60.8	76.8	149,300*
	48	59.1	75.6	142,500*
	50	57.4	74.3	136,200*
	55	52.9	70.6	122,500*
	60	48.2	66.2	109,300*
	65	43.0	61.0	97,500*
	70	37.3	54.8	87,700*
	75	30.6	46.9	79,400*
	80	22.0	36.0	65,800*

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BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
90	19	82.5	97.0	365,000*
	20	81.8	96.8	348,600*
	22	80.5	96.5	317,800*
	24	79.2	96.1	291,800*
	26	77.9	95.6	269,500*
	28	76.6	95.1	250,200*
	30	75.3	94.6	233,300*
	32	74.0	94.0	218,400*
	34	72.6	93.3	205,100*
	36	71.3	92.6	193,300*
	38	69.9	91.8	182,600*
	40	68.6	91.0	173,000*
	42	67.2	90.1	164,200*
	44	65.8	89.2	156,200*
	46	64.3	88.2	148,900*
	48	62.9	87.2	142,100*
	50	61.4	86.0	135,900*
	55	57.7	82.9	122,200*
60	53.8	79.3	109,400	
65	49.6	75.2	97,600	
70	45.2	70.4	87,800	
75	40.4	64.7	79,500	
80	35.0	57.9	72,500	
85	28.7	49.4	66,300	
90	20.7	37.7	57,100*	
100	20	82.7	107.0	348,200*
	22	81.5	106.6	317,500*
	24	80.3	106.3	291,500*
	26	79.2	105.9	269,200*
	28	78.0	105.4	249,900*
	30	76.8	104.9	233,000*
	32	75.6	104.4	218,100*
	34	74.4	103.8	204,900*
	36	73.2	103.2	193,000*
	38	72.0	102.5	182,400*
	40	70.8	101.8	172,800*
	42	69.6	101.0	164,000*
	44	68.3	100.2	156,000*
	46	67.1	99.3	148,700*
	48	65.8	98.4	141,900*
	50	64.6	97.4	135,700*
	55	61.3	94.7	122,000*
	60	57.9	91.6	109,600
65	54.4	88.1	97,700	
70	50.8	84.1	87,900	
75	46.9	79.5	79,700	
80	42.7	74.3	72,700	
85	38.2	68.1	66,600	
90	33.1	60.8	61,200	
95	27.2	51.7	56,500	
100	19.5	39.4	49,500*	
110	22	82.3	116.8	316,900*
	24	81.2	116.4	290,900*
	26	80.2	116.1	268,600*
	28	79.1	115.7	249,300*
	30	78.0	115.2	232,400*
	32	77.0	114.7	217,500*
	34	75.9	114.2	204,300*
	36	74.8	113.6	192,400*
	38	73.7	113.0	181,800*
	40	72.6	112.4	172,200*
	42	71.5	111.7	163,400*
	44	70.4	110.9	155,400*
	46	69.3	110.2	148,100*
	48	68.2	109.3	141,300*
	50	67.0	108.5	135,100*
	55	64.1	106.1	121,400*
	60	61.2	103.4	109,500
	65	58.1	100.3	97,600

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
110	70	55.0	96.8	87,800
	75	51.7	93.0	79,500
	80	48.2	88.6	72,500
	85	44.5	83.6	66,400
	90	40.6	77.9	61,100
	95	36.3	71.4	56,400
	100	31.5	63.6	52,200
	105	25.8	54.0	48,500
	110	18.6	40.9	42,300*
	120	22	82.9	126.9
24		82.0	126.6	290,400*
26		81.0	126.2	268,100*
28		80.0	125.9	248,800*
30		79.1	125.5	232,000*
32		78.1	125.0	217,100*
34		77.1	124.5	203,800*
36		76.1	124.0	192,000*
38		75.1	123.5	181,400*
40		74.1	122.9	171,700*
42		73.1	122.2	163,000*
44		72.1	121.6	155,000*
46		71.1	120.9	147,700*
48		70.1	120.1	140,900*
50		69.1	119.3	134,700*
55		66.5	117.2	121,100*
60		63.8	114.7	109,400
65		61.1	112.0	97,500
70	58.3	109.0	87,700	
75	55.4	105.6	79,500	
80	52.4	101.8	72,400	
85	49.3	97.5	66,300	
90	46.0	92.8	61,000	
95	42.5	87.5	56,400	
100	38.7	81.4	52,200	
105	34.6	74.4	48,500	
110	30.0	66.2	45,100	
115	24.7	56.1	42,000*	
120	17.7	42.4	36,500*	
130	24	82.6	136.7	285,200*
	26	81.7	136.4	267,800*
	28	80.8	136.0	248,600*
	30	79.9	135.7	231,700*
	32	79.0	135.3	216,800*
	34	78.1	134.8	203,600*
	36	77.2	134.3	191,800*
	38	76.3	133.8	181,100*
	40	75.4	133.3	171,500*
	42	74.5	132.7	162,700*
	44	73.5	132.1	154,800*
	46	72.6	131.5	147,400*
	48	71.7	130.8	140,700*
	50	70.7	130.1	134,500*
	55	68.4	128.1	120,800*
	60	66.0	125.9	109,400*
	65	63.5	123.4	97,600
	70	61.0	120.7	87,700
75	58.4	117.6	79,500	
80	55.8	114.3	72,400	
85	53.0	110.6	66,400	
90	50.2	106.5	61,100	
95	47.2	101.9	56,400	
100	44.0	96.8	52,200	
105	40.7	91.2	48,500	
110	37.1	84.8	45,200	
115	33.2	77.4	42,200	
120	28.8	68.7	39,400	
125	23.6	58.1	36,500*	
130	17.0	43.8	31,800*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
140	26	82.3	146.5	267,300*
	28	81.5	146.2	248,000*
	30	80.6	145.8	231,200*
	32	79.8	145.5	216,300*
	34	79.0	145.1	203,100*
	36	78.1	144.6	191,300*
	38	77.3	144.1	180,600*
	40	76.4	143.6	171,000*
	42	75.6	143.1	162,200*
	44	74.7	142.5	154,300*
	46	73.9	141.9	146,900*
	48	73.0	141.3	140,200*
	50	72.2	140.7	134,000*
	55	70.0	138.9	120,400*
	60	67.8	136.8	108,900*
	65	65.5	134.6	97,400
	70	63.3	132.1	87,600
	75	60.9	129.3	79,300
80	58.5	126.3	72,200	
85	56.1	123.0	66,200	
90	53.5	119.3	60,900	
95	50.9	115.3	56,200	
100	48.2	110.9	52,100	
105	45.3	106.1	48,400	
110	42.3	100.7	45,000	
115	39.1	94.7	42,000	
120	35.7	87.9	39,300	
125	31.9	80.2	36,800	
130	27.7	71.2	34,400	
135	22.7	60.1	31,600*	
140	16.3	45.2	27,500*	
150	26	82.8	156.6	244,200*
	28	82.0	156.3	238,700*
	30	81.3	156.0	230,500*
	32	80.5	155.6	215,600*
	34	79.7	155.3	202,400*
	36	78.9	154.8	190,500*
	38	78.2	154.4	179,900*
	40	77.4	153.9	170,300*
	42	76.6	153.5	161,500*
	44	75.8	152.9	153,600*
	46	75.0	152.4	146,200*
	48	74.2	151.8	139,500*
	50	73.4	151.2	133,300*
	55	71.4	149.5	119,700*
	60	69.4	147.6	108,200*
	65	67.3	145.6	97,100
	70	65.2	143.3	87,300
	75	63.0	140.8	79,000
80	60.9	138.0	71,900	
85	58.6	135.0	65,800	
90	56.3	131.7	60,500	
95	54.0	128.1	55,800	
100	51.6	124.2	51,700	
105	49.1	119.9	48,000	
110	46.4	115.2	44,700	
115	43.7	110.1	41,700	
120	40.8	104.4	38,900	
125	37.7	98.1	36,400	
130	34.4	91.0	34,100	
135	30.8	82.9	32,000	
140	26.7	73.5	30,000	
145	21.9	62.0	27,000*	
150	15.7	46.5	23,300*	

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44,000 LB. CARBODY COUNTERWEIGHT
28"2" CRAWLERS EXTENDED
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NO TRAVEL - LIMITED SWING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
160	28	82.5	166.4	228,900*
	30	81.8	166.1	223,800*
	32	81.1	165.8	215,000*
	34	80.4	165.4	201,800*
	36	79.6	165.1	190,000*
	38	78.9	164.6	179,300*
	40	78.2	164.2	169,700*
	42	77.4	163.7	161,000*
	44	76.7	163.3	153,000*
	46	76.0	162.7	145,700*
	48	75.2	162.2	138,900*
	50	74.5	161.6	132,700*
	55	72.6	160.1	119,100*
	60	70.7	158.3	107,700*
	65	68.8	156.4	96,900*
	70	66.8	154.3	87,000*
75	64.9	152.0	78,700*	
80	62.9	149.4	71,700*	
85	60.8	146.7	65,600*	
90	58.7	143.6	60,200*	
95	56.6	140.4	55,600*	
100	54.4	136.8	51,400*	
105	52.1	133.0	47,700*	
110	49.8	128.8	44,400*	
115	47.4	124.3	41,400*	
120	44.9	119.3	38,600*	
125	42.2	113.9	36,200*	
130	39.4	108.0	33,900*	
135	36.5	101.4	31,800*	
140	33.3	94.0	29,800*	
145	29.8	85.6	28,000*	
150	25.8	75.7	26,200*	
155	21.2	63.8	23,200*	
160	15.2	47.8	19,900*	
170	28	83.0	176.5	213,500*
	30	82.3	176.2	209,400*
	32	81.6	175.9	205,400*
	34	80.9	175.6	201,400*
	36	80.3	175.2	189,600*
	38	79.6	174.9	179,000*
	40	78.9	174.4	169,300*
	42	78.2	174.0	160,600*
	44	77.5	173.6	152,600*
	46	76.8	173.1	145,300*
	48	76.1	172.6	138,600*
	50	75.4	172.0	132,400*
	55	73.7	170.6	118,700*
	60	71.9	168.9	107,300*
	65	70.1	167.1	96,700*
	70	68.3	165.2	86,900*
75	66.4	163.0	78,600*	
80	64.6	160.6	71,500*	
85	62.7	158.1	65,400*	
90	60.8	155.3	60,100*	
95	58.8	152.3	55,400*	
100	56.8	149.1	51,300*	
105	54.7	145.6	47,600*	
110	52.6	141.8	44,200*	
115	50.4	137.7	41,200*	
120	48.2	133.3	38,500*	
125	45.9	128.5	36,000*	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
170	130	43.4	123.3	33,700
	135	40.9	117.6	31,600
	140	38.2	111.4	29,700
	145	35.3	104.5	27,900
	150	32.2	96.8	26,200
	155	28.8	88.1	24,600
160	25.0	77.9	22,600*	
165	20.5	65.6	19,900*	
180	30	82.7	186.3	199,200*
	32	82.1	186.0	195,500*
	34	81.4	185.7	191,800*
	36	80.8	185.4	188,100*
	38	80.2	185.0	178,400*
	40	79.5	184.6	168,700*
	42	78.9	184.2	160,000*
	44	78.2	183.8	152,000*
	46	77.6	183.4	144,700*
	48	76.9	182.9	138,000*
	50	76.2	182.4	131,800*
	55	74.6	181.0	118,200*
	60	72.9	179.5	106,700*
	65	71.2	177.8	96,400*
	70	69.5	175.9	86,600*
	75	67.8	173.9	78,300*
80	66.1	171.7	71,200*	
85	64.3	169.3	65,100*	
90	62.5	166.8	59,800*	
95	60.7	164.0	55,100*	
100	58.9	161.0	50,900*	
105	57.0	157.8	47,200*	
110	55.0	154.3	43,900*	
115	53.0	150.6	40,900*	
120	51.0	146.6	38,200*	
125	48.9	142.3	35,700*	
130	46.7	137.6	33,400*	
135	44.5	132.6	31,300*	
140	42.1	127.1	29,400*	
145	39.7	121.2	27,600*	
150	37.1	114.7	25,900*	
155	34.3	107.6	24,300*	
160	31.3	99.6	22,900*	
165	28.0	90.6	21,500*	
170	24.3	80.0	19,200*	
175	19.9	67.3	16,800*	
190	32	82.5	196.2	181,000*
	34	81.9	195.9	178,000*
	36	81.3	195.5	175,000*
	38	80.7	195.2	172,000*
	40	80.1	194.8	168,000*
	42	79.4	194.4	159,300*
	44	78.8	194.0	151,300*
	46	78.2	193.6	144,000*
	48	77.6	193.2	137,200*
	50	77.0	192.7	131,000*
	55	75.4	191.4	117,400*
	60	73.9	189.9	106,000*
	65	72.3	188.4	96,100*
	70	70.7	186.6	86,200*
	75	69.1	184.7	77,900*
	80	67.4	182.7	70,800*

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
190	85	65.8	180.4	64,700
	90	64.1	178.0	59,400
	95	62.4	175.4	54,700
	100	60.7	172.6	50,500
	105	58.9	169.6	46,800
	110	57.1	166.4	43,500
	115	55.3	163.0	40,500
	120	53.4	159.3	37,800
	125	51.5	155.4	35,300
	130	49.5	151.2	33,000
	135	47.5	146.7	30,900
	140	45.4	141.8	28,900
	145	43.2	136.5	27,100
	150	40.9	130.9	25,500
	155	38.5	124.7	23,900
	160	36.0	118.0	22,500
165	33.3	110.6	21,100	
170	30.4	102.3	19,800	
175	27.2	93.0	18,100*	
180	23.6	82.1	16,000*	
185	19.4	68.9	13,800*	
200	32	82.9	206.3	171,000*
	34	82.3	206.0	168,200*
	36	81.7	205.7	165,400*
	38	81.1	205.3	162,600*
	40	80.6	205.0	159,800*
	42	80.0	204.6	157,100*
	44	79.4	204.2	150,700*
	46	78.8	203.8	143,300*
	48	78.2	203.4	136,600*
	50	77.6	203.0	130,400*
	55	76.2	201.7	116,800*
	60	74.7	200.4	105,400*
	65	73.2	198.9	95,700*
	70	71.7	197.2	85,900*
	75	70.2	195.4	77,600*
	80	68.6	193.5	70,500*
85	67.1	191.4	64,400*	
90	65.5	189.1	59,000*	
95	63.9	186.7	54,300*	
100	62.3	184.1	50,200*	
105	60.6	181.3	46,500*	
110	59.0	178.3	43,100	
115	57.3	175.1	40,100	
120	55.5	171.7	37,400	
125	53.8	168.1	34,900	
130	52.0	164.2	32,600	
135	50.1	160.1	30,500	
140	48.2	155.6	28,600	
145	46.2	150.9	26,800	
150	44.2	145.8	25,100	
155	42.1	140.4	23,600	
160	39.8	134.5	22,100	
165	37.5	128.1	20,700	
170	35.1	121.1	19,500	
175	32.4	113.4	18,300	
180	29.6	104.9	17,000*	
185	26.5	95.3	15,100*	
190	23.0	84.1	13,200*	
195	18.9	70.6	11,200*	

STERLING CRANE

LIFT CRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 2

BOOM NO. 22EL
179,100 LB. CRANE COUNTERWEIGHT
44,000 LB. CARBODY COUNTERWEIGHT
28'2" CRAWLERS EXTENDED
RATING OVER FRONT OF BLOCKED CRAWLERS
NO TRAVEL - LIMITED SWING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
210	34	82.7	216.1	158,700*
	36	82.1	215.8	156,400*
	38	81.6	215.5	154,100*
	40	81.0	215.1	151,800*
	42	80.5	214.8	149,600*
	44	79.9	214.4	147,100*
	46	79.4	214.0	142,900*
	48	78.8	213.6	136,200*
	50	78.2	213.2	129,900*
	55	76.8	212.0	116,300*
	60	75.4	210.8	104,900*
	65	74.0	209.3	95,200*
	70	72.6	207.8	85,700
	75	71.1	206.1	77,300
	80	69.7	204.2	70,200
	85	68.2	202.2	64,100
	90	66.7	200.1	58,800
	95	65.2	197.8	54,100
	100	63.7	195.4	49,900
	105	62.2	192.7	46,200
110	60.6	189.9	42,900	
115	59.0	187.0	39,800	
120	57.4	183.8	37,100	
125	55.8	180.4	34,600	
130	54.1	176.8	32,300	
135	52.4	173.0	30,200	
140	50.6	168.9	28,300	
145	48.8	164.6	26,500	
150	46.9	160.0	24,800	
155	45.0	155.1	23,300	
160	43.0	149.8	21,800	
165	41.0	144.1	20,500	
170	38.8	138.0	19,200	
175	36.6	131.4	18,000	
180	34.2	124.2	16,900	
185	31.6	116.3	15,800	
190	28.9	107.5	14,200*	
195	25.8	97.5	12,500*	
200	22.4	86.0	10,700*	
205	18.4	72.1	8,900*	
220	34	83.0	226.2	147,500*
	36	82.5	225.9	146,600*
	38	82.0	225.6	144,500*
	40	81.4	225.3	142,400*
	42	80.9	224.9	140,200*
	44	80.4	224.6	138,100*
	46	79.8	224.2	135,700*
	48	79.3	223.8	133,400*
	50	78.8	223.4	129,300*
	55	77.5	222.3	115,700*
	60	76.1	221.1	104,300*
	65	74.8	219.7	94,600*
	70	73.4	218.3	85,300
	75	72.0	216.6	77,000
	80	70.7	214.9	69,900
	85	69.3	213.0	63,700
	90	67.9	211.0	58,400
	95	66.4	208.8	53,700
	100	65.0	206.5	49,500
	105	63.6	204.0	45,800
110	62.1	201.4	42,500	
115	60.6	198.6	39,500	
120	59.1	195.6	36,700	
125	57.5	192.5	34,200	
130	56.0	189.1	32,000	
135	54.4	185.6	29,900	
140	52.7	181.8	27,900	
145	51.1	177.8	26,100	
150	49.4	173.5	24,500	
155	47.6	169.0	22,900	
160	45.8	164.2	21,500	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS	
220	165	43.9	159.1	20,100	
	170	42.0	153.6	18,800	
	175	40.0	147.7	17,600	
	180	37.9	141.4	16,500	
	185	35.7	134.6	15,500	
	190	33.4	127.1	14,500	
	195	30.9	119.0	13,100*	
	200	28.2	110.0	11,500*	
	205	25.2	99.7	9,900*	
	210	21.9	87.9	8,300*	
	215	17.9	73.7	6,700*	
	230	36	82.8	236.0	133,600*
		38	82.3	235.7	133,300*
		40	81.8	235.4	132,900*
		42	81.3	235.1	131,500*
44		80.8	234.7	129,700*	
46		80.3	234.4	127,800*	
48		79.8	234.0	125,900*	
50		79.3	233.6	123,900*	
55		78.0	232.6	115,000*	
60		76.7	231.4	103,500*	
65		75.4	230.1	93,800*	
70		74.1	228.7	85,000	
75		72.8	227.2	76,600	
80		71.5	225.5	69,500	
85		70.2	223.7	63,400	
90		68.9	221.8	58,000	
95		67.5	219.7	53,300	
100		66.2	217.5	49,100	
105		64.8	215.2	45,400	
110		63.4	212.7	42,000	
115	62.0	210.1	39,000		
120	60.6	207.3	36,300		
125	59.1	204.3	33,800		
130	57.6	201.1	31,500		
135	56.1	197.8	29,400		
140	54.6	194.3	27,500		
145	53.1	190.6	25,700		
150	51.5	186.6	24,000		
155	49.9	182.4	22,400		
160	48.2	178.0	21,000		
165	46.5	173.3	19,600		
170	44.7	168.3	18,400		
175	42.9	163.0	17,200		
180	41.0	157.3	16,100		
185	39.1	151.3	15,000		
190	37.0	144.7	14,000		
195	34.9	137.7	13,000		
200	32.6	130.1	11,800*		
205	30.2	121.7	10,300*		
210	27.5	112.4	8,900*		
215	24.6	101.9	7,400*		
220	21.4	89.8	5,900*		
225	17.5	75.2	4,400*		
240	38	82.6	245.8	121,300*	
	40	82.2	245.5	121,000*	
	42	81.7	245.2	120,700*	
	44	81.2	244.9	120,300*	
	46	80.7	244.6	120,000*	
	48	80.2	244.2	119,000*	
	50	79.7	243.8	117,100*	
	55	78.5	242.8	112,500*	
	60	77.3	241.7	102,900*	
	65	76.1	240.5	93,200*	
	70	74.8	239.1	84,600	
	75	73.6	237.6	76,200	
	80	72.3	236.1	69,100	
	85	71.1	234.4	63,000	
	90	69.8	232.5	57,600	
95	68.5	230.6	52,900		

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
240	100	67.2	228.5	48,700
	105	65.9	226.3	45,000
	110	64.6	223.9	41,600
	115	63.3	221.4	38,600
	120	61.9	218.7	35,900
	125	60.5	215.9	33,400
	130	59.2	213.0	31,100
	135	57.7	209.8	29,000
	140	56.3	206.5	27,000
	145	54.9	203.0	25,200
	150	53.4	199.3	23,600
	155	51.9	195.4	22,000
	160	50.3	191.3	20,600
	165	48.7	187.0	19,200
	170	47.1	182.4	18,000
175	45.4	177.5	16,800	
180	43.7	172.3	15,600	
185	41.9	166.8	14,600	
190	40.1	161.0	13,600	
195	38.2	154.7	12,600	
200	36.2	148.0	11,700	
205	34.1	140.8	10,600*	
210	31.9	132.9	9,200*	
215	29.5	124.3	7,900*	
220	26.9	114.7	6,500*	
225	24.1	104.0	5,200*	
250	38	82.9	255.9	110,200*
	40	82.5	255.6	109,900*
	42	82.0	255.3	109,600*
	44	81.5	255.0	109,300*
	46	81.1	254.7	109,000*
	48	80.6	254.4	108,600*
	50	80.1	254.0	108,300*
	55	79.0	253.0	105,200*
	60	77.8	252.0	100,900*
	65	76.6	250.8	93,300*
	70	75.4	249.5	84,800
	75	74.3	248.1	76,400
	80	73.1	246.6	69,300
	85	71.9	244.9	63,200
	90	70.6	243.2	57,800
	95	69.4	241.3	53,100
	100	68.2	239.3	48,900
	105	66.9	237.2	45,200
	110	65.7	235.0	41,800
	115	64.4	232.6	38,800
120	63.1	230.1	36,100	
125	61.8	227.4	33,600	
130	60.5	224.6	31,300	
135	59.2	221.6	29,200	
140	57.8	218.5	27,200	
145	56.5	215.2	25,400	
150	55.1	211.7	23,800	
155	53.6	208.1	22,200	
160	52.2	204.2	20,800	
165	50.7	200.2	19,400	
170	49.2	195.9	18,200	
175	47.7	191.4	17,000	
180	46.1	186.6	15,800	
185	44.5	181.6	14,800	
190	42.8	176.2	13,800	
195	41.1	170.6	12,800	
200	39.3	164.5	11,900	
205	37.4	158.1	11,100	
210	35.4	151.2	10,300*	
215	33.4	143.7	8,900*	
220	31.2	135.7	7,700*	
225	28.9	126.8	6,400*	
230	26.4	117.1	5,200*	

STERLING CRANE

LIFT CRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 2

BOOM NO. 22EL
179,100 LB. CRANE COUNTERWEIGHT
44,000 LB. CARBODY COUNTERWEIGHT
28" CRAWLERS EXTENDED
RATING OVER FRONT OF BLOCKED CRAWLERS
NO TRAVEL - LIMITED SWING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
260	40	82.8	265.7	100,500*
	42	82.3	265.4	100,200*
	44	81.9	265.1	99,900*
	46	81.4	264.8	99,600*
	48	81.0	264.5	99,300*
	50	80.5	264.2	98,900*
	55	79.4	263.2	98,100*
	60	78.3	262.2	95,200*
	65	77.2	261.1	91,100*
	70	76.0	259.8	84,300*
	75	74.9	258.5	76,100
	80	73.7	257.0	68,900
	85	72.6	255.5	62,800
	90	71.4	253.8	57,400
	95	70.2	252.0	52,700
	100	69.1	250.1	48,500
	105	67.9	248.1	44,800
	110	66.7	245.9	41,400
	115	65.5	243.7	38,400
	120	64.2	241.3	35,700
	125	63.0	238.7	33,100
	130	61.8	236.1	30,900
	135	60.5	233.2	28,800
	140	59.2	230.3	26,800
145	57.9	227.2	25,000	
150	56.6	223.9	23,400	
155	55.3	220.4	21,800	
160	53.9	216.8	20,400	
165	52.5	213.0	19,000	
170	51.1	209.0	17,700	
175	49.7	204.8	16,500	
180	48.2	200.4	15,400	
185	46.7	195.7	14,400	
190	45.1	190.8	13,400	
195	43.5	185.6	12,400	
200	41.9	180.1	11,500	
205	40.2	174.2	10,700	
210	38.5	168.0	9,900	
215	36.6	161.4	9,100*	
220	34.7	154.3	7,800*	
225	32.7	146.7	6,600*	
230	30.6	138.4	5,400*	
235	28.3	129.3	4,300*	
270	40	83.0	275.8	91,900*
	42	82.6	275.5	91,600*
	44	82.2	275.2	91,300*
	46	81.7	274.9	91,000*
	48	81.3	274.6	90,700*
	50	80.9	274.3	90,400*
	55	79.8	273.4	89,500*
	60	78.7	272.4	88,700*
	65	77.6	271.3	85,900*
	70	76.5	270.1	82,200*
	75	75.5	268.8	75,700
	80	74.4	267.5	68,600
	85	73.2	266.0	62,400
	90	72.1	264.4	57,000
	95	71.0	262.6	52,300
	100	69.9	260.8	48,100
	105	68.7	258.9	44,300
	110	67.6	256.8	41,000
	115	66.4	254.7	38,000
	120	65.3	252.4	35,200
	125	64.1	249.9	32,700
	130	62.9	247.4	30,400
	135	61.7	244.7	28,300
	140	60.5	241.9	26,300
145	59.2	238.9	24,500	
150	58.0	235.8	22,900	
155	56.7	232.6	21,300	
160	55.4	229.2	19,900	
165	54.1	225.6	18,500	
170	52.8	221.8	17,200	

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS	
270	175	51.5	217.8	16,100	
	180	50.1	213.7	14,900	
	185	48.7	209.3	13,900	
	190	47.2	204.7	12,900	
	195	45.8	199.9	11,900	
	200	44.2	194.8	11,000	
	205	42.7	189.5	10,200	
	210	41.1	183.8	9,400	
	215	39.4	177.8	8,600*	
	220	37.7	171.4	7,700*	
	225	35.9	164.6	6,500*	
	230	34.0	157.3	5,400*	
	235	32.1	149.5	4,300*	
	280	42	82.9	285.6	83,000*
		44	82.5	285.3	82,700*
		46	82.0	285.1	82,500*
		48	81.6	284.8	82,200*
		50	81.2	284.4	81,900*
55		80.2	283.6	81,200*	
60		79.1	282.6	80,400*	
65		78.1	281.6	78,800*	
70		77.0	280.4	75,600*	
75		76.0	279.2	72,100*	
80		74.9	277.8	68,100	
85		73.9	276.4	62,000	
90		72.8	274.9	56,600	
95		71.7	273.2	51,900	
100		70.6	271.5	47,700	
105		69.5	269.6	43,900	
110		68.4	267.6	40,600	
115		67.3	265.6	37,500	
120		66.2	263.4	34,800	
125		65.1	261.1	32,300	
130		63.9	258.6	30,000	
135		62.8	256.1	27,800	
140		61.6	253.4	25,900	
145		60.5	250.6	24,100	
150	59.3	247.6	22,400		
155	58.1	244.5	20,900		
160	56.8	241.3	19,400		
165	55.6	237.9	18,100		
170	54.4	234.3	16,800		
175	53.1	230.6	15,600		
180	51.8	226.7	14,500		
185	50.5	222.6	13,400		
190	49.1	218.3	12,400		
195	47.7	213.8	11,500		
200	46.3	209.0	10,600		
205	44.9	204.0	9,700		
210	43.4	198.8	8,800*		
215	41.9	193.3	7,900*		
220	40.3	187.5	7,100*		
225	38.7	181.3	6,300*		
230	37.0	174.7	5,400*		
235	35.2	167.8	4,300*		
290	44	82.7	295.4	75,900*	
	46	82.3	295.2	75,600*	
	48	81.9	294.9	75,300*	
	50	81.5	294.6	75,100*	
	55	80.5	293.7	74,300*	
	60	79.5	292.8	73,100*	
	65	78.5	291.8	71,000*	
	70	77.5	290.7	69,000*	
	75	76.5	289.5	67,200*	
	80	75.5	288.2	64,600*	
	85	74.4	286.8	61,400*	
	90	73.4	285.3	56,900	
95	72.4	283.8	52,200		
100	71.3	282.1	48,000		
105	70.3	280.3	44,300		
110	69.2	278.4	40,900		
115	68.2	276.4	37,900		

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	BOOM CAPACITY POUNDS
290	120	67.1	274.3	35,100
	125	66.0	272.1	32,600
	130	64.9	269.8	30,300
	135	63.8	267.3	28,200
	140	62.7	264.7	26,300
	145	61.6	262.0	24,500
	150	60.4	259.2	22,800
	155	59.3	256.3	21,200
	160	58.1	253.2	19,800
	165	57.0	249.9	18,400
	170	55.8	246.6	17,200
	175	54.6	243.0	16,000
	180	53.3	239.3	14,800
	185	52.1	235.5	13,800
	190	50.8	231.4	12,800
	195	49.5	227.2	11,800
	200	48.2	222.7	10,900
	205	46.8	218.1	10,100*
210	45.5	213.2	8,900*	
215	44.0	208.1	7,600*	
220	42.6	202.7	6,500*	
225	41.1	197.0	5,400*	
230	39.6	191.0	4,300*	