

Ratings are in Pounds. 47S Tubular Boom – 4 Sheave. 34,500 Lb. Counterweight.

BOOM LENGTH	RADIUS (FEET)	BOOM ANGLE (DEGREES)	SIDE FRAMES RETRACTED (POUNDS)	SIDE FRAMES EXTENDED (POUNDS)	FROM BOOM POINT TO GROUND (FEET)
40' (12.2 M) BOOM	11	80.5		120,000 *	45
	12	79.0		110,020 *	44
	15	74.6		81,530	44
	20	66.9		52,290	42
	25	58.8		38,280	39
	30	49.9		30,040	36
	35	39.5		24,630	31
	40	25.7		20,820	23
50' (15.2 M) BOOM	13	80.1		101,470 *	54
	15	77.7		81,500	54
	20	71.8		52,200	53
	25	65.6		38,200	51
	30	59.0		29,950	48
	35	52.0		24,520	45
	40	44.2		20,710	40
	50	22.9		15,620	25
60' (18.3 M) BOOM	14	80.8		91,550	64
	15	79.8		81,450	64
	20	74.9		52,130	63
	25	69.9		38,110	61
	30	64.7		29,840	59
	35	59.2		24,400	57
	40	53.4		20,620	53
	50	40.1	12,700	15,530	44
60	20.8	10,070	12,310	26	
70' (21.3 M) BOOM	16	80.4		73,180	74
	20	77.1		52,040	73
	25	72.8		38,020	72
	30	68.5		29,740	70
	35	64.0		24,300	68
	40	59.3	16,690	20,530	65
	50	49.1	12,590	15,430	58
	60	37.0	9,960	12,210	47
70	19.2	8,140	9,990	28	
80' (24.4 M) BOOM	17	80.9		66,440	84
	20	78.7		51,910	84
	25	75.1		37,890	82
	30	71.3		29,600	81
	35	67.5		24,150	79
	40	63.5	16,540	20,390	77
	50	55.1	12,440	15,280	71
	60	45.8	9,810	12,060	62
70	34.5	7,980	9,850	50	
80	17.9	6,650	8,230	30	

BOOM LENGTH	RADIUS (FEET)	BOOM ANGLE (DEGREES)	SIDE FRAMES RETRACTED (POUNDS)	SIDE FRAMES EXTENDED (POUNDS)	FROM BOOM POINT TO GROUND (FEET)
90' (27.4 M) BOOM	19	80.7		55,910	94
	20	80.0		51,790	94
	25	76.7		37,770	93
	30	73.4		29,460	91
	35	70.1	19,340	24,010	90
	40	66.7	16,400	20,250	88
	50	59.5	12,290	15,150	83
	60	51.7	9,670	11,920	76
	70	43.0	7,830	9,700	66
	80	32.4	6,490	8,080	53
90	16.8	5,470	6,850	31	
100' (30.5 M) BOOM	21	80.4		48,100	104
	25	78.1		37,650	103
	30	75.1	23,440	29,330	102
	35	72.2	19,200	23,880	100
	40	69.1	16,270	20,130	99
	50	62.8	12,170	15,030	94
	60	56.1	9,530	11,790	88
	70	48.8	7,700	9,570	80
	80	40.7	6,360	7,950	70
	90	30.7	5,330	6,720	56
100	15.9	4,520	5,750	33	
110' (33.5 M) BOOM	22	80.8		44,970	114
	25	79.2		37,510	113
	30	76.5	23,280	29,180	112
	35	73.8	19,030	23,720	111
	40	71.1	16,110	19,980	109
	50	65.5	12,000	14,870	105
	60	59.6	9,370	11,640	100
	70	53.3	7,540	9,420	93
	80	46.4	6,190	7,790	85
	90	38.7	5,160	6,550	74
100	29.2	4,360	5,590	59	
110	15.2	3,710	4,810	34	
120' (36.6 M) BOOM	24	80.6		39,590	124
	25	80.1		37,370	123
	30	77.7	23,130	29,050	122
	35	75.2	18,870	23,570	121
	40	72.7	15,970	19,850	120
	50	67.6	11,850	14,720	116
	60	62.3	9,220	11,490	111
	70	56.8	7,390	9,260	106
	80	50.8	6,040	7,640	98
	90	44.3	5,000	6,400	89
	100	36.9	4,200	5,430	77
	110	28.0	3,540	4,640	61
120	14.5	3,010	4,010	35	

BOOM LENGTH	RADIUS (FEET)	BOOM ANGLE (DEGREES)	SIDE FRAMES RETRACTED (POUNDS)	SIDE FRAMES EXTENDED (POUNDS)	FROM BOOM POINT TO GROUND (FEET)
130' (39.6 M) BOOM	25	80.9	29,310	37,240	133
	30	78.6	22,990	28,910	133
	35	76.4	18,720	23,420	131
	40	74.1	15,820	19,710	130
	50	69.4	11,710	14,580	127
	60	64.6	9,070	11,350	123
	70	59.6	7,230	9,120	117
	80	54.4	5,890	7,490	111
	90	48.7	4,850	6,250	103
	100	42.5	4,050	5,280	93
	110	35.4	3,380	4,490	81
	120	26.8	2,850	3,850	64
	130	13.9	2,410	3,330	36
140' (42.7 M) BOOM	27	80.7	26,290	33,300	143
	30	79.4	22,820	28,760	143
	35	77.4	18,550	23,260	142
	40	75.3	15,670	19,560	141
	50	71.0	11,540	14,420	137
	60	66.6	8,900	11,190	134
	70	62.0	7,070	8,960	129
	80	57.2	5,720	7,320	123
	90	52.2	4,680	6,080	116
	100	46.8	3,880	5,110	107
	110	40.9	3,210	4,320	97
	120	34.1	2,670	3,680	84
	130	25.8	2,230	3,150	66
140	13.4	1,860	2,700	38	
150' (45.7 M) BOOM	28	80.9	24,880	31,110 *	153
	30	80.2	22,660	28,610	153
	35	78.2	18,390	23,110	152
	40	76.3	15,510	19,420	151
	50	72.3	11,390	14,280	148
	60	68.2	8,740	11,030	144
	70	64.0	6,910	8,800	140
	80	59.7	5,560	7,170	135
	90	55.1	4,530	5,930	128
	100	50.3	3,710	4,950	121
	110	45.1	3,050	4,160	111
	120	39.4	2,510	3,520	100
	130	32.9	2,060	2,980	87
140	24.9	1,670	2,520	68	
150	12.9	1,360	2,140	39	

ully raised and side frames extended. Blocks, slings and other load carrying devices must be on the ground during erection.

The crane will self-erect 160' of boom with 60' of #7HL Jib.

LOAD HOISTING INFORMATION			
MAXIMUM LIFTING CAPACITY (POUNDS)	MINIMUM PARTS OF LINE	MAXIMUM HOISTING DISTANCE (FEET)	
		R.H. DRUM C.L.L.	L.H. DRUM
120,000	6	86'	66'
113,710	5	103'	79'
90,970	4	129'	99'
68,220	3	172'	132'
45,480	2	258'	198'
22,740	1	517'	396'

BOOM COMPOSITION					
BOOM SECTIONS					
BOOM LENGTH FEE	20' 47S INNER	10' 47S CENTER	20' 47S CENTER	30' 47S CENTER	20' 47S OUTER
40	1	0	0	0	1
50	1	1	0	0	1
60	1	0	1	0	1
70	1	0	0	1	1
80	1	1	0	1	1
90	1	0	1	1	1
100	1	0	0	2	1
110	1	1	0	2	1
120	1	0	1	2	1
130	1	0	0	3	1
140	1	1	0	3	1
150	1	0	1	3	1
160	1	0	0	4	1

BOOM LENGTH	RADIUS (FEET)	BOOM ANGLE (DEGREES)	SIDE FRAMES RETRACTED (POUNDS)	SIDE FRAMES EXTENDED (POUNDS)	FROM BOOM POINT TO GROUND (FEET)
160' (48.8 M) BOOM	30	80.8	22,510	27,060 *	163
	35	79.0	18,230	22,960	162
	40	77.1	15,370	19,280	161
	50	73.4	11,240	14,130	158
	60	69.6	8,600	10,890	155
	70	65.8	6,750	8,650	151
	80	61.8	5,400	7,020	146
	90	57.6	4,370	5,770	140
	100	53.2	3,550	4,800	133
	110	48.6	2,890	4,000	125
	120	43.6	2,350	3,360	116
	130	38.1	1,890	2,820	104
	140	31.8	1,510	2,360	89
	150	24.1	1,190	1,970	70
	160	12.5	910	1,650	40

BOOM & JIB LENGTH	JIB RADIUS (FEET)	5° JIB OFFSET		15° JIB OFFSET		25° JIB OFFSET	
		BOOM ANGLE	RATINGS (LBS)	BOOM ANGLE	RATINGS (LBS)	BOOM ANGLE	RATINGS (LBS)
40' JIB & 140' BOOM	36	80.8	15,240 *				
	40	79.5	13,610 *				
	50	76.3	11,510 *	78.4	11,510 *	80.4	10,510 *
	60	73.0	9,920 *	75.1	9,920 *	77.0	9,920 *
	70	69.6	8,660 *	71.7	8,660 *	73.6	8,660 *
	80	66.2	7,100	68.2	7,100	70.1	7,100
	90	62.6	5,860	64.7	5,870	66.5	5,870
	100	59.0	4,900	61.0	4,900	62.7	4,900
	110	55.1	4,110	57.1	4,110	58.8	4,110
	120	51.1	3,470	53.1	3,470	54.7	3,470
	130	46.9	2,930	48.8	2,930	50.3	2,930
	140	42.3	2,470	44.1	2,470	45.5	2,470
40' JIB & 150' BOOM	37	81.0	11,770 *				
	40	80.1	11,110 *				
	50	77.0	9,300 *	79.0	9,300 *	80.9	9,060 *
	60	73.9	7,930 *	75.9	7,930 *	77.7	7,930 *
	70	70.7	6,840 *	72.7	6,840 *	74.5	6,850 *
	80	67.5	5,960 *	69.4	5,960 *	71.2	5,960 *
	90	64.2	5,230 *	66.1	5,230 *	67.8	5,230 *
	100	60.8	4,600 *	62.7	4,600 *	64.4	4,600 *
	110	57.2	3,930	59.1	3,940	60.7	3,940
	120	53.5	3,290	55.4	3,290	57.0	3,300
	130	49.7	2,750	51.5	2,750	53.0	2,750
	140	45.5	2,290	47.3	2,290	48.7	2,300
	150	41.1	1,900	42.8	1,900	44.1	1,910
40' JIB & 160' BOOM	39	80.9	9,300 *				
	40	80.6	9,110 *				
	50	77.7	7,520 *	79.6	7,530 *		
	60	74.7	6,320 *	76.6	6,330 *	78.4	6,330 *
	70	71.7	5,380 *	73.6	5,380 *	75.3	5,380 *
	80	68.7	4,610 *	70.5	4,610 *	72.2	4,610 *
	90	65.6	3,970 *	67.4	3,970 *	69.1	3,970 *
	100	62.4	3,430 *	64.2	3,450 *	65.8	3,430 *
	110	59.1	2,960 *	60.9	2,960 *	62.4	2,960 *
	120	55.6	2,550 *	57.4	2,550 *	58.9	2,550 *
	130	52.1	2,180 *	53.8	2,180 *	55.3	2,180 *
	140	48.3	1,840 *	50.0	1,840 *	51.4	1,840 *
	150	44.3	1,530 *	46.0	1,530 *	47.3	1,530 *
	160	40.0	1,240 *	41.6	1,240 *	42.8	1,240 *
50' JIB & 130' BOOM	37	80.8	14,930 *				
	40	79.8	14,930 *				
	50	76.5	13,860 *	79.2	12,660 *		
	60	73.2	11,140	75.9	11,140	78.3	10,260 *
	70	69.9	8,920	72.5	8,930	74.9	8,930
	80	66.4	7,310	69.0	7,310	71.4	7,310
	90	62.9	6,070	65.5	6,080	67.8	6,080
	100	59.2	5,100	61.8	5,100	64.0	5,100
	110	55.4	4,320	57.9	4,320	60.1	4,320
	120	51.4	3,670	53.8	3,670	55.9	3,670
	130	47.1	3,130	49.5	3,130	51.5	3,130

Jib Length (Feet)	10' Inner	10' Centre	20' Centre	20' Outer	Effective Jib Weight (lbs)	Jib Offset "A" (Feet)		
						5°	15°	25°
30	1	0	0	1	1,400	3.84'	7.67'	11.33'
40	1	1	0	1	1,950	4.50'	9.50'	14.33'
50	1	0	1	1	2,630	5.17'	11.50'	17.58'
60	1	1	1	1	2,950	5.75'	13.25'	20.58'

