

BOOM LENGTH	RADIUS (FEET)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (POUNDS)	FROM BOOM POINT TO GROUND (FEET)
50' ( 15.2M) BOOM	13	79.9	200,000 *	56
	15	77.6	190,080 *	55
	20	71.6	123,590	54
	25	65.4	87,980	52
	30	58.9	67,950	49
	35	51.9	55,210	46
	40	44.1	46,320	41
	50	22.7	34,800	26
60' ( 18.3M) BOOM	14	80.7	200,000 *	66
	15	79.7	189,950 *	65
	20	74.8	123,410	64
	25	69.7	87,800	63
	30	64.5	67,740	61
	35	59.1	55,020	58
	40	53.3	46,110	54
	50	40.0	34,570	45
60	20.6	27,460	27	
70' ( 21.3M) BOOM	16	80.3	177,910 *	75
	20	77.0	123,260	75
	25	72.8	87,640	73
	30	68.4	67,570	71
	35	63.9	54,860	69
	40	59.2	45,940	67
	50	49.0	34,380	59
	60	36.9	27,290	48
70	19.0	22,410	29	
80' ( 24.4M) BOOM	17	80.8	162,150	85
	20	78.7	123,050	85
	25	75.0	87,450	84
	30	71.2	67,340	82
	35	67.4	54,640	80
	40	63.4	45,710	78
	50	55.0	34,140	72
	60	45.7	27,070	64
70	34.4	22,170	52	
80	17.7	18,640	31	

BOOM LENGTH	RADIUS (FEET)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (POUNDS)	FROM BOOM POINT TO GROUND (FEET)
90' ( 27.4M) BOOM	19	80.6	133,760	95
	20	79.9	122,900	95
	25	76.7	87,300	94
	30	73.4	67,190	93
	35	70.0	54,480	91
	40	66.6	45,540	89
	50	59.4	33,960	84
	60	51.6	26,900	77
	70	42.9	22,010	68
	80	32.3	18,460	55
	90	16.7	15,780	32
100' ( 30.5M) BOOM	20	80.9	122,700	105
	25	78.0	87,090	104
	30	75.1	66,960	103
	35	72.1	54,260	102
	40	69.0	45,310	100
	50	62.7	33,720	95
	60	56.0	26,670	89
	70	48.8	21,770	82
	80	40.6	18,220	71
	90	30.6	15,530	57
	100	15.8	13,440	34
110' ( 33.5M) BOOM	22	80.7	105,370	115
	25	79.1	86,910	114
	30	76.5	66,750	113
	35	73.8	54,060	112
	40	71.0	45,100	110
	50	65.4	33,500	106
	60	59.5	26,470	101
	70	53.2	21,560	94
	80	46.4	18,000	86
	90	38.6	15,300	75
	100	29.1	13,200	60
	110	15.1	11,530	35

BOOM LENGTH	RADIUS (FEET)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (POUNDS)	FROM BOOM POINT TO GROUND (FEET)
120' ( 36.6M) BOOM	24	80.5	91,970	125
	25	80.1	86,700	125
	30	77.6	66,510	124
	35	75.2	53,830	122
	40	72.7	44,860	121
	50	67.6	33,250	117
	60	62.3	26,230	113
	70	56.7	21,320	107
	80	50.8	17,750	99
	90	44.3	15,060	90
	100	36.9	12,950	78
	110	27.9	11,260	62
120	14.4	9,880	36	
130' ( 39.6M) BOOM	25	80.8	86,510	135
	30	78.6	66,320	134
	35	76.3	53,640	133
	40	74.0	44,680	131
	50	69.4	33,040	128
	60	64.6	26,030	124
	70	59.6	21,110	118
	80	54.3	17,560	112
	90	48.6	14,850	104
	100	42.4	12,740	94
	110	35.4	11,040	82
	120	26.7	9,660	65
130	13.8	8,510	37	
140' ( 42.7M) BOOM	27	80.7	76,990	145
	30	79.4	66,090	144
	35	77.3	53,410	143
	40	75.2	44,440	142
	50	70.9	32,790	139
	60	66.5	25,800	135
	70	62.0	20,870	130
	80	57.2	17,300	124
	90	52.2	14,610	117
	100	46.8	12,490	108
	110	40.8	10,790	98
	120	34.0	9,400	85
130	25.7	8,240	67	
140	13.3	7,270	39	

BOOM LENGTH	RADIUS (FEET)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (POUNDS)	FROM BOOM POINT TO GROUND (FEET)
150' ( 45.7M) BOOM	28	80.9	72,790	154
	30	80.1	65,870	154
	35	78.2	53,210	153
	40	76.2	44,220	152
	50	72.2	32,560	149
	60	68.2	25,580	146
	70	64.0	20,650	141
	80	59.6	17,080	136
	90	55.1	14,370	129
	100	50.3	12,260	122
	110	45.1	10,560	113
	120	39.4	9,160	102
	130	32.8	7,990	88
	140	24.9	7,020	69
150	12.8	6,190	40	
160' ( 48.8M) BOOM	30	80.7	65,640	164
	35	78.9	52,980	163
	40	77.1	43,980	162
	50	73.4	32,310	160
	60	69.6	25,340	156
	70	65.7	20,410	152
	80	61.7	16,830	147
	90	57.6	14,120	141
	100	53.2	12,000	134
	110	48.6	10,300	126
	120	43.6	8,900	117
	130	38.1	7,730	105
	140	31.8	6,750	91
	150	24.0	5,910	72
160	12.4	5,200	41	
170' ( 51.8M) BOOM	31	80.9	62,400	174
	35	79.6	52,770	174
	40	77.9	43,770	173
	50	74.4	32,090	170
	60	70.8	25,130	167
	70	67.2	20,200	163
	80	63.5	16,620	159
	90	59.7	13,910	153
	100	55.7	11,780	147
	110	51.5	10,080	139
	120	47.0	8,670	131
	130	42.2	7,500	121
	140	36.9	6,510	108
	150	30.8	5,670	93
160	23.3	4,950	74	
170	12.1	4,340	42	

BOOM LENGTH	RADIUS (FEET)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (POUNDS)	FROM BOOM POINT TO GROUND (FEET)
180' ( 54.9M) BOOM	33	80.8	57,130	184
	35	80.2	52,540	184
	40	78.6	43,540	183
	50	75.3	31,840	180
	60	71.9	24,900	178
	70	68.6	19,950	174
	80	65.1	16,370	170
	90	61.5	13,660	165
	100	57.8	11,530	159
	110	54.0	9,820	152
	120	49.9	8,420	144
	130	45.6	7,240	135
	140	41.0	6,250	124
	150	35.8	5,410	112
	160	29.9	4,680	96
	170	22.6	4,040	76
180	11.7	3,510	43	
190' ( 57.9M) BOOM	34	81.0	52,570 *	194
	35	80.7	52,320	194
	40	79.2	43,310	193
	50	76.1	31,610	191
	60	72.9	24,680	188
	70	69.7	19,720	185
	80	66.5	16,140	181
	90	63.2	13,420	176
	100	59.7	11,300	170
	110	56.2	9,580	164
	120	52.4	8,170	157
	130	48.5	7,000	149
	140	44.3	6,010	139
	150	39.8	5,160	128
	160	34.8	4,420	115
	170	29.1	3,790	99
180	22.0	3,230	78	
190	11.4	2,760	44	

BOOM LENGTH	RADIUS (FEET)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (POUNDS)	FROM BOOM POINT TO GROUND (FEET)
200' ( 61.0M) BOOM	36	80.9	46,920 *	204
	40	79.7	43,070	203
	50	76.8	31,360	201
	60	73.8	24,440	198
	70	70.8	19,480	195
	80	67.7	15,890	191
	90	64.6	13,170	187
	100	61.4	11,040	182
	110	58.0	9,330	176
	120	54.6	7,920	169
	130	51.0	6,740	162
	140	47.2	5,750	153
	150	43.1	4,900	143
	160	38.8	4,160	132
	170	33.9	3,520	118
	180	28.3	2,960	101
	190	21.5	2,470	80
200	11.1	2,050	45	
210' ( 64.0M) BOOM	38	80.8	41,580 *	214
	40	80.2	40,870 *	213
	50	77.4	31,130	211
	60	74.6	24,220	209
	70	71.7	19,260	206
	80	68.8	15,670	202
	90	65.9	12,950	198
	100	62.9	10,820	193
	110	59.7	9,100	188
	120	56.5	7,690	182
	130	53.2	6,510	174
	140	49.7	5,520	166
	150	46.0	4,660	157
	160	42.0	3,920	147
	170	37.8	3,270	135
	180	33.0	2,710	121
	190	27.6	2,220	104
200	20.9	1,780	81	

BOOM LENGTH	RADIUS (FEET)	BOOM ANGLE (DEGREES)	360 DEGREE RATING (POUNDS)	FROM BOOM POINT TO GROUND (FEET)
220' ( 67.1M) BOOM	39	80.9	36,510 *	224
	40	80.7	36,220 *	223
	50	78.0	30,880	222
	60	75.3	23,990	219
	70	72.6	19,020	216
	80	69.8	15,430	213
	90	67.1	12,700	209
	100	64.2	10,570	204
	110	61.3	8,840	199
	120	58.2	7,440	193
	130	55.1	6,260	187
	140	51.9	5,260	179
	150	48.5	4,400	171
	160	44.9	3,650	162
	170	41.0	3,010	151
	180	36.9	2,450	138
	190	32.3	1,940	124
200	27.0	1,510	106	
230' ( 70.1M) BOOM	41	80.8	31,890 *	233
	50	78.5	28,280 *	232
	60	76.0	23,760	230
	70	73.4	18,790	227
	80	70.8	15,190	224
	90	68.1	12,470	220
	100	65.4	10,320	215
	110	62.6	8,600	211
	120	59.8	7,190	205
	130	56.8	6,010	199
	140	53.8	5,010	192
	150	50.6	4,150	184
	160	47.3	3,410	175
170	43.8	2,760	166	
180	40.1	2,190	154	
190	36.0	1,690	142	

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 **WARNING**

This rating chart is invalid if the crane has been modified or altered by use of other than GENUINE AMERICAN PARTS as such modifications or alterations may affect its capacity or safe operation. See American Crane Corporation Service Bulliten #259.

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Ratings in this chart are in POUNDS and do not exceed the percentage of tipping specified for this crane by ANSI B30.5. All ratings require that the crane be standing level on a firm uniformly supporting surface.

Do not lift loads in excess of those shown on this chart. Lifting loads in excess of those shown or operation not in accordance with good operating practice, including limitations shown on page 3499 of Operator's Manual, can cause tipping, structural damage or catastrophic failure.

Asterisk (\*) areas on this chart indicate ratings which are limited by strength of material or factors other than stability (tipping).

" RADIUS IN FEET " is the horizontal distance at ground level from the crane centerline of rotation to a vertical line through the center of gravity of the suspended load.

When using the main boom fall with jib in place, the main fall ratings must be reduced by the jib effective weight shown on the jib rating chart plus twice the weight of all suspended blocks, slings, rope, etc., at the jib fall. See Appendix A.

When using the main boom fall with boom tip extension in place, the main fall ratings must be reduced by the weight of the boom tip extension plus twice the weight of all suspended blocks, slings, rope, etc., at the boom tip extension fall. See Appendix A.

Blocks, slings, buckets and other load carrying devices are considered part of the load. The weight of standard hoisting ropes for the rating at a given radius has been calculated as part of the boom point load and need not be considered in determining net allowable loads. See Appendix A.

This chart was developed exclusively for use with a boom only. Under no circumstances are these ratings to be interpreted for use with a jib.

Ratings shown on this chart make no allowance for such factors as out of plumb loads, wind, poor soil conditions, improper inflation of rubber tires and dynamic effects due to excessive operating speeds. The user (operator) must exercise judgement to make allowance for these conditions. See page 3499 of Operator's Manual for detailed information.

No account is taken of the wind force on the load. This effect, which can be substantial for loads with large surface areas, must be considered by the user. In any wind it is strongly recommended that taglines be used to control the load.



BOOM HOIST LINE is 12 parts of 3/4 inch diameter IPS wire rope with a minimum breaking strength of 51,200 pounds

PENDANT SUSPENSION LINE is 2 parts of 1-3/8 inch diameter EEIPS wire rope with a minimum breaking strength of 211,000 pounds.

**MAIN LOAD LINE -**

1.000 inch diameter EIPS wire rope with a minimum breaking strength of 103,400 pounds or  
 0.875 inch diameter EIPS wire rope with a minimum breaking strength of 79,600 pounds

**ERECTION**

Erection "OVER THE END" is with the boom over the idler end with idler tumblers blocked (See operator's manual for blocking instructions). Erection "OVER THE SIDE" is with the boom 90° to the sideframes and with the side frames extended. Blocks, slings and other load carrying devices must be on the ground during erection.

59HI OFFSET TIP BOOM MAXIMUM BOOM & JIB SELF-ERECTION DATA				
	OVER THE END		OVER THE SIDE ( WITH EXTENDERS IN PLACE)	
	BOOM LENGTH (FEET)	JIB LENGTH (FEET)	BOOM LENGTH (FEET)	JIB LENGTH (FEET)
#9HL JIB	230	0	-	-
	220	0	220	0
	210	40	210	0
	200	70	200	50

LOAD HOISTING INFORMATION - 1.00" diameter EIPS wire rope			
MAXIMUM LIFTING CAPACITY - LBS.	MINIMUM PARTS OF LINE	MAXIMUM HOISTING DISTANCE - FEET	
		MAIN HOIST	AUX HOIST
200,000	7	148	NOT APPLICABLE
177,250	6	173	
147,700	5	208	
118,150	4	260	
88,600	3	346	
59,050	2	520	
29,500	1	1040	

LOAD HOISTING INFORMATION - 7/8" diameter EIPS wire rope			
MAXIMUM LIFTING CAPACITY - LBS.	MINIMUM PARTS OF LINE	MAXIMUM HOISTING DISTANCE - FEET	
		MAIN HOIST	AUX HOIST
181,900	8	NOT APPLICABLE	78
159,200	7		89
136,450	6		104
113,700	5		125
90,950	4		156
68,200	3		208
45,450	2		313
22,700	1		626

59HI OFFSET TIP BOOM COMPOSITION CHART					
BOOM LENGTH (FEET)	BOOM SECTIONS				
	25' 59HI INNER	10' 59H CENTER	20' 59H CENTER	40' 59H CENTER	25' 59HI OUTER
50	1	0	0	0	1
60	1	1	0	0	1
70	1	0	1	0	1
80	1	1	1	0	1
90	1	0	0	1	1
100	1	1	0	1	1
110	1	0	1	1	1
120	1	1	1	1	1
130	1	0	0	2	1
140	1	1	0	2	1
150	1	0	1	2	1
160	1	1	1	2	1
170	1	0	0	3	1
180	1	1	0	3	1
190	1	0	1	3	1
200	1	1	1	3	1
210	1	0	0	4	1
220	1	1	0	4	1
230	1	0	1	4	1