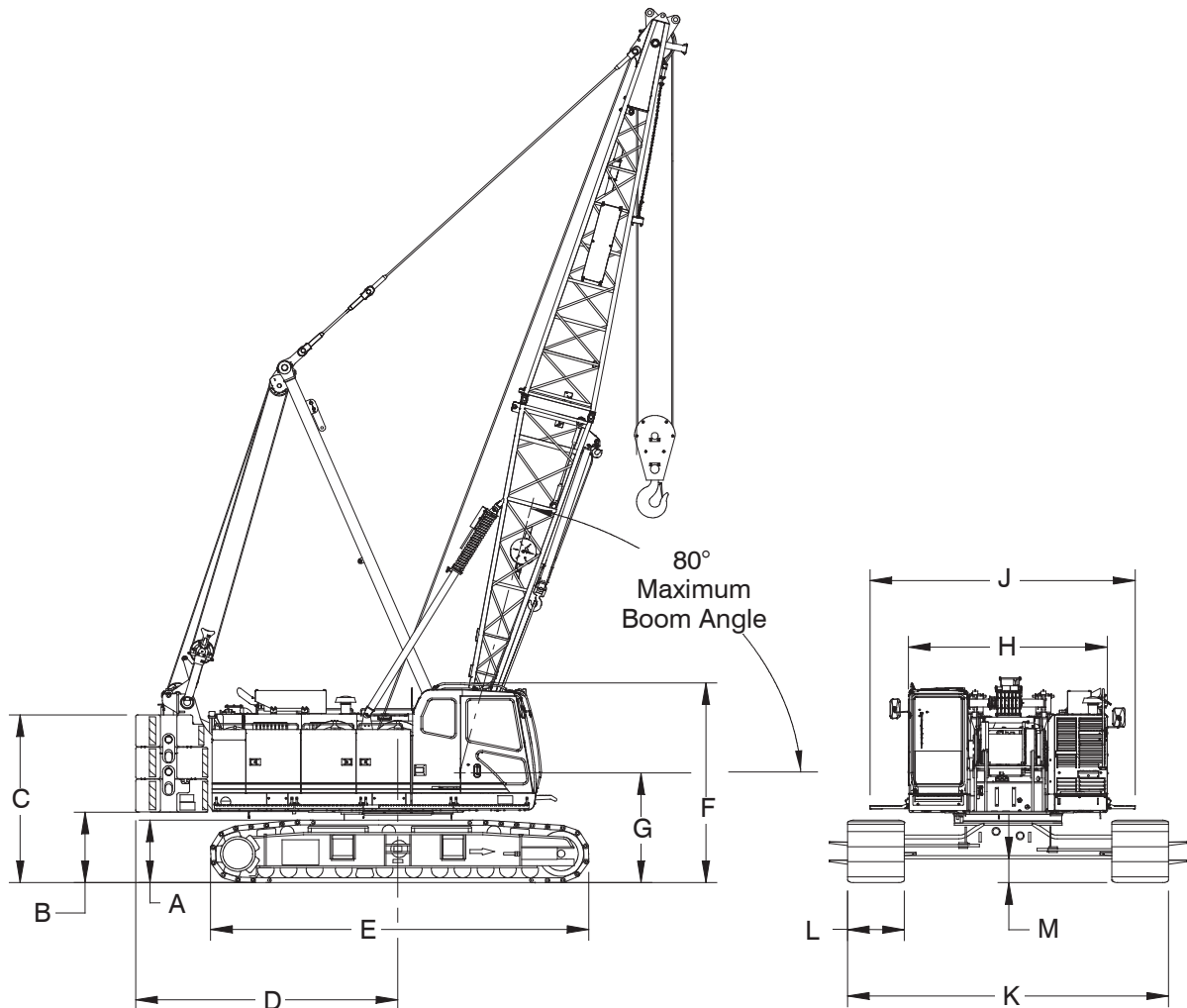


General Dimensions

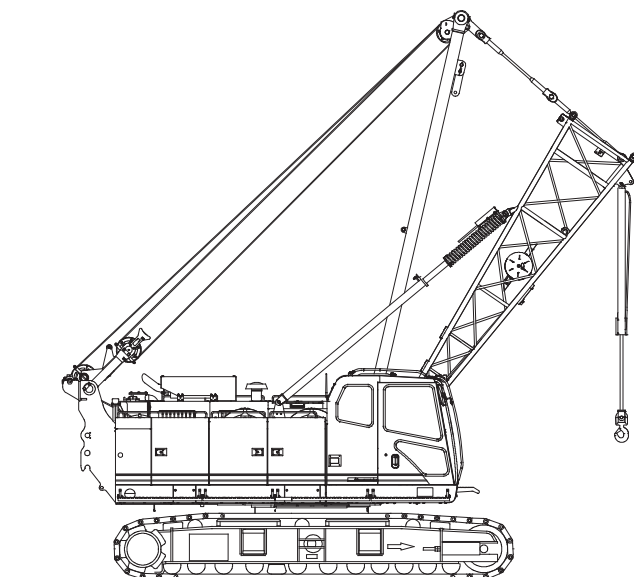
	General Description	Dimension
A	Side Frame Height	3' - 3"
B	Ground Clearance- CTWT	3' - 8"
C	Overall Height- CTWT	8' - 11"
D	CTWT Tailswing	13' - 11"
E	Side Frame Length	20' - 2"
F	Operator's Cab Height	10' - 7"
G	Height Of Boom Foot Pin	5' - 10"
H	Upper Width	10' - 7"
J	Width Over Catwalks	14' - 1"
K	Extended Width	17' - 0"
	Retracted Width	11' - 11"
L	Track Shoe Width	36"
M	Minimum Ground Clearance	15.2"



Self Assembly Cylinder Lifting Capacities

Radius (ft)	Boom Angle (deg)	Case I Side Frames Retracted Without Counterweight (lb)	Case II Side Frames Extended With or Without Counterweight (lb)
8.57	80.0	26,000	26,000
9	78.6	26,000	26,000
10	75.4	26,000	26,000
11	72.0	26,000	26,000
12	68.6	26,000	26,000
13	65.1	26,000	26,000
14	61.4	26,000	26,000
15	57.5	26,000	26,000
16	53.4	26,000	26,000
17	49.1	25,700	26,000
18	44.3	23,500	26,000
19	39.0	21,700	26,000
20	32.7	20,100	26,000
21	24.5	18,600	26,000

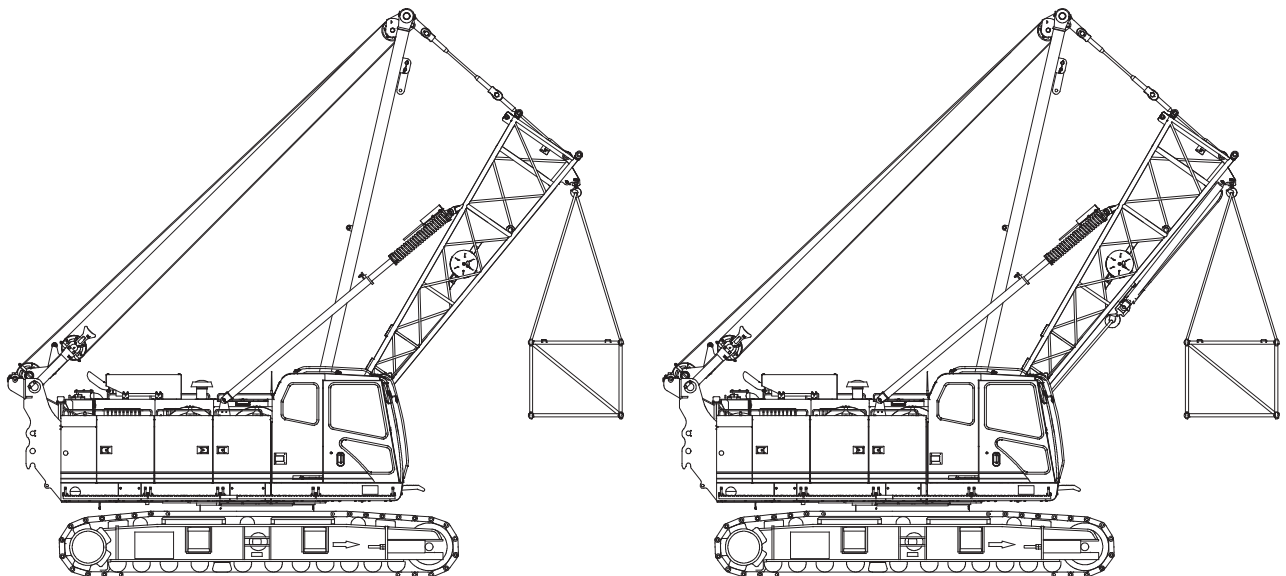
- Notes:**
1. The crane shall be leveled on a firm supporting surface.
 2. Rated capacities for 360° rotation.
 3. Boom base section only, supported by make up pendants. No extensions or top section can be attached.
 4. Backstops must be assembled to the base section and operational.
 5. For self assembly of counterweights, boom, and jib only.
 6. Shaded capacities are based on factors other than those that would cause a tipping condition.
 7. Capacities are based on 75% stability.



20' Base Section Lifting Capacities (Without Self Assembly Cylinder Or With Self Assembly Cylinder In Stored Position)

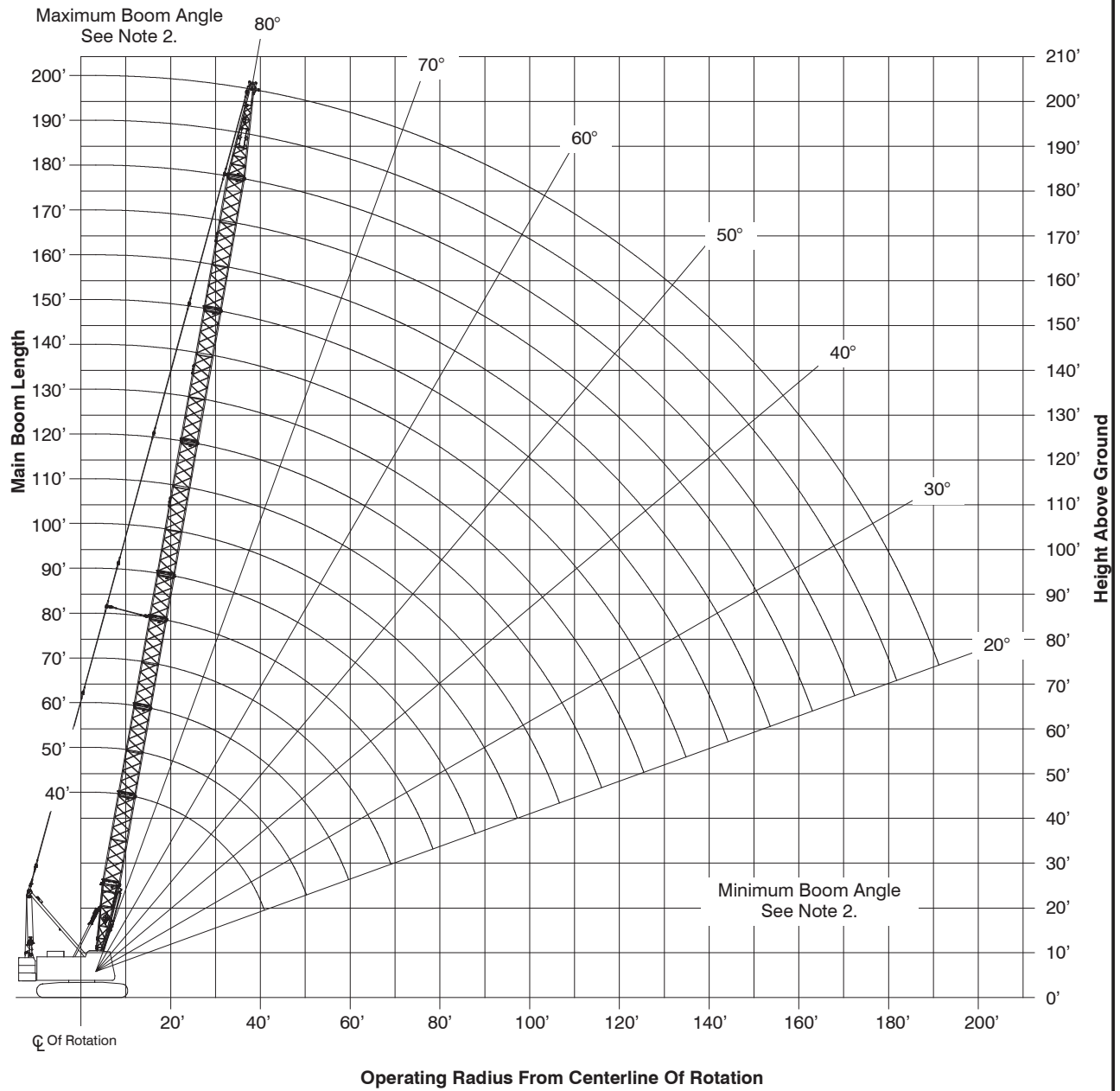
Base Section		Case I Side Frames Retracted Without Counterweight (lb)	Case II Side Frames Extended With or Without Counterweight (lb)
Radius (ft)	Angle (deg)		
15	55.0	26,000	26,000
16	50.9	26,000	
17	46.4	25,700	
18	41.6	23,500	26,000
19	36.0	21,700	
20	29.5	20,100	
21	20.6	18,600	

- Notes:**
1. The crane shall be leveled on a firm supporting surface.
 2. Rated capacities for 360° rotation.
 3. For self assembly of counterweights, boom, and jib only.
 4. Backstops must be assembled to the base section and operational.
 5. Capacities are based on 75% stability.
 6. Boom base section only, supported by make up pendants. No extensions or top section can be attached.
 7. Shaded capacities are based on factors other than those that would cause a tipping condition.



Working Range Diagram

40' To 200' Open Throat Tube Boom



Notes:

1. Boom geometry shown is for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius, and boom angle change must be accounted for when applying load to hook.
2. Maximum and minimum boom angles are equal to the values listed in the capacity chart for each boom length.

Capacity Deductions For Lifting Off Main Boom Hook With Jib Installed (Open Throat Tube Boom)

When using main boom hook, while jib is attached, reduce boom capacities by the values in the following chart:

Jib Length (ft)	Offset Angle (deg)	Capacity Deduction (lb)
30	5	3,800
	15	4,800
	25	6,200
45	5	4,900
	15	6,400
	25	8,400
60	5	6,200
	15	8,300
	25	10,600

Capacity Deductions For Lifting Off Main Boom Hook With Auxiliary Tip Extension Installed

When using main boom hook, while auxiliary tip extension is attached, reduce boom capacities by the values in the following chart:

Tip Extension	Capacity Deduction
Auxiliary Tip Extension - Not Reeved	900 lb
Auxiliary Tip Extension - With 15 Ton Hook Ball	1,661 lb

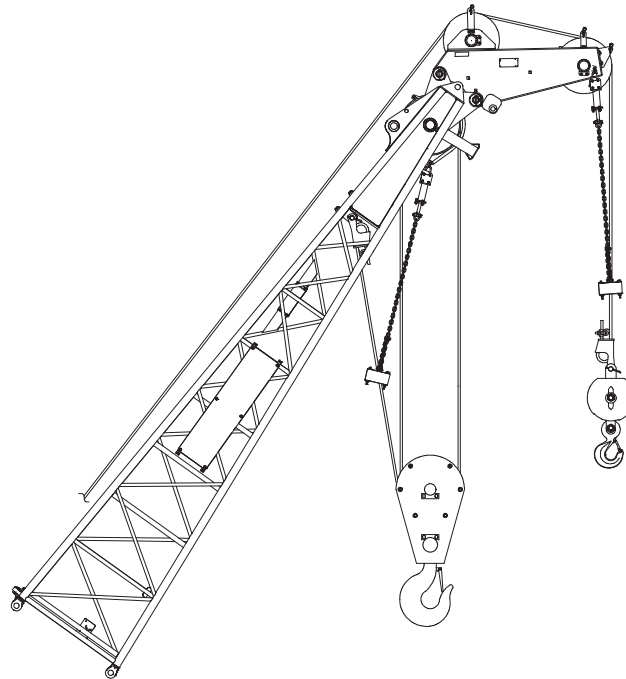
Maximum Allowable Capacities For Auxiliary Tip Extension

Lifting Capacity To Be The Smallest Of The Following Values:

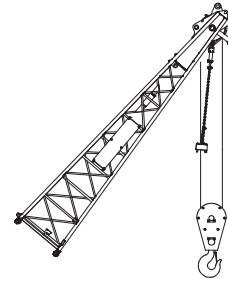
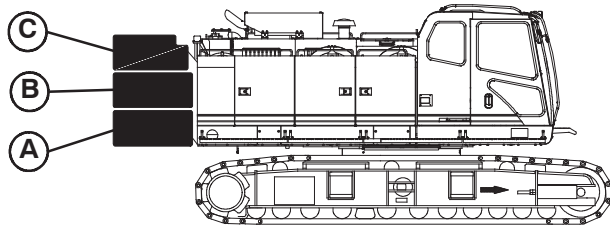
1. 18,000 lb (Maximum).
2. The standard crane lift capacity for the boom length, tip extension load radius, and counterweight configuration in use on the crane, minus 900 lb for auxiliary tip extension, minus weight of hook block or hook ball reeved on peak section, if applicable.

Notes:

1. All applicable notes are to be adhered to as listed on the standard lift crane capacity charts.
2. Reduce the main boom lift capacities by 900 lb when the tip extension is installed.
3. The maximum boom length on which the tip extension can be installed is 190'.
4. Do not lift or suspend a load from the boom tip extension and main boom at the same time.



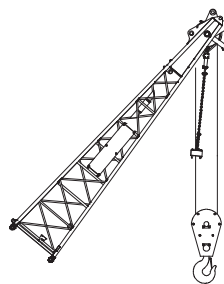
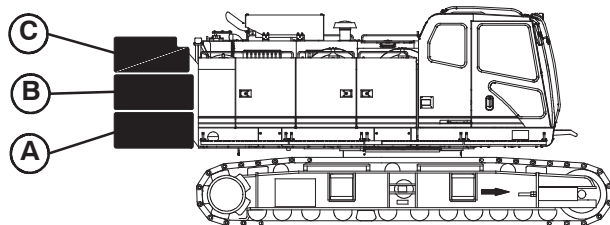
20' Open Throat Tube Boom With Auxiliary Tip Extension



Main Boom Capacities - 40' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation					Load Radius (ft)
			Side Frames Extended			Side Frames Retracted		
		ABC CTWT (lb)	ABC CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
10.23	80.0	160,000	160,000	160,000	160,000	109,000	59,100	10.23
11	78.9	160,000	160,000	160,000	155,800	95,800	51,800	11
12	77.4	160,000	160,000	155,100	143,700	82,700	44,600	12
13	75.9	151,800	151,800	143,900	133,300	72,700	39,000	13
14	74.5	141,600	141,600	134,200	116,300	64,800	34,700	14
15	73.0	132,600	132,600	125,700	101,500	58,400	31,100	15
16	71.5	124,700	124,700	116,700	90,000	53,100	28,200	16
17	69.9	117,600	117,600	104,800	80,800	48,600	25,700	17
18	68.4	111,300	111,100	95,100	73,200	44,800	23,600	18
19	66.9	105,600	101,700	87,000	66,900	41,500	21,800	19
20	65.3	100,400	93,700	80,100	61,600	38,700	20,200	20
25	57.1	80,300	67,000	57,100	43,700	28,500	14,500	25
30	48.1	62,500	51,800	44,100	33,600	22,400	11,100	30
35	37.5	50,100	42,000	35,700	27,100	18,200	8,800	35
40	23.4	40,900	35,100	29,800	22,500	15,100	7,100	40
40.87	20.0	36,400	34,200	28,900	21,800	14,700	6,800	40.87

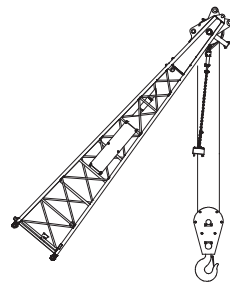
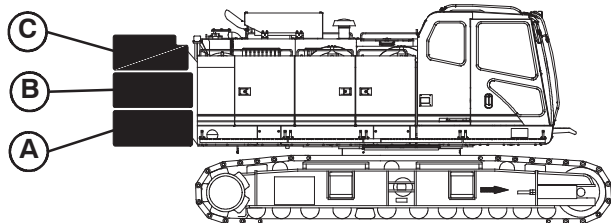
Note: Refer To Page 24 For “Capacity Deductions” Caused By Any Attachment At The Boom Tip.



Main Boom Capacities - 50' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation					Load Radius (ft)
			Side Frames Extended			Side Frames Retracted		
		ABC CTWT (lb)	ABC CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
11.96	80.0	160,000	160,000	155,300	143,900	83,400	45,100	11.96
13	78.8	151,600	151,600	143,700	133,100	72,900	39,300	13
14	77.6	141,400	141,400	134,000	116,700	65,000	34,900	14
15	76.4	132,400	132,400	125,500	101,900	58,500	31,300	15
16	75.3	124,500	124,500	117,000	90,300	53,200	28,300	16
17	74.1	117,500	117,500	105,100	81,100	48,800	25,800	17
18	72.9	111,200	111,200	95,400	73,500	45,000	23,700	18
19	71.7	105,500	101,900	87,200	67,200	41,700	21,900	19
20	70.5	100,400	93,900	80,300	61,800	38,800	20,300	20
25	64.3	80,300	67,100	57,300	43,900	28,600	14,700	25
30	57.7	62,700	51,900	44,200	33,800	22,500	11,200	30
35	50.6	50,300	42,200	35,800	27,200	18,300	8,900	35
40	42.7	41,900	35,300	29,900	22,600	15,300	7,200	40
50	20.9	31,000	26,300	22,200	16,600	11,200	4,900	50
50.27	20.0	30,800	26,200	22,100	16,500	11,100	4,800	50.27

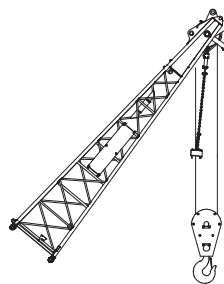
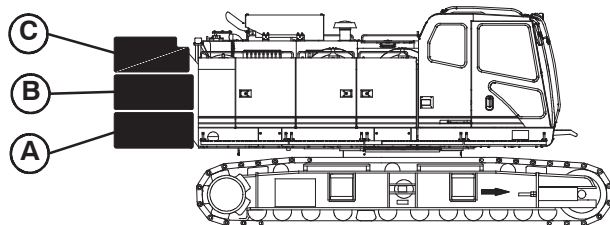
Note: Refer To Page 24 For “Capacity Deductions” Caused By Any Attachment At The Boom Tip.



Main Boom Capacities - 60' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation					Load Radius (ft)
			Side Frames Extended			Side Frames Retracted		
		ABC CTWT (lb)	ABC CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
13.7	80.0	143,800	143,800	136,500	122,200	67,300	36,200	13.7
14	79.7	141,100	141,100	133,700	116,900	65,100	34,900	14
15	78.7	132,200	132,200	125,300	102,100	58,600	31,300	15
16	77.8	124,300	124,300	117,200	90,500	53,300	28,400	16
17	76.8	117,300	117,300	105,300	81,200	48,800	25,900	17
18	75.8	111,000	111,000	95,500	73,600	45,000	23,800	18
19	74.8	105,300	102,000	87,300	67,300	41,700	21,900	19
20	73.8	100,200	94,000	80,400	61,900	38,800	20,300	20
25	68.8	80,300	67,200	57,400	44,000	28,600	14,700	25
30	63.6	62,700	52,000	44,300	33,800	22,500	11,200	30
35	58.1	50,400	42,200	35,900	27,200	18,300	8,900	35
40	52.3	41,900	35,300	30,000	22,700	15,300	7,200	40
50	38.9	31,100	26,400	22,300	16,700	11,200	4,900	50
59.66	20.0	24,600	20,900	17,600	13,000	8,700	3,400	59.66

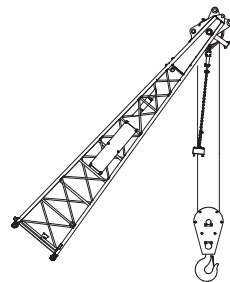
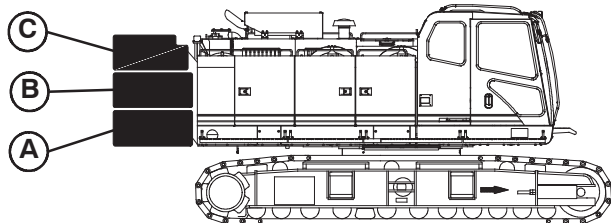
Note: Refer To Page 24 For “Capacity Deductions” Caused By Any Attachment At The Boom Tip.



Main Boom Capacities - 70' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation					Load Radius (ft)
			Side Frames Extended			Side Frames Retracted		
		ABC CTWT (lb)	ABC CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
15.44	80.0	125,600	125,600	121,600	96,800	56,200	30,000	15.44
16	79.5	123,900	123,900	117,300	90,600	53,300	28,400	16
17	78.7	117,000	117,000	105,300	81,300	48,800	25,900	17
18	77.9	110,700	110,700	95,600	73,700	45,000	23,700	18
19	77.0	105,100	102,100	87,400	67,300	41,700	21,900	19
20	76.2	100,000	94,100	80,500	62,000	38,800	20,300	20
25	71.9	80,300	67,200	57,400	44,000	28,600	14,600	25
30	67.6	62,700	52,000	44,300	33,800	22,400	11,100	30
35	63.1	50,300	42,100	35,800	27,200	18,200	8,800	35
40	58.4	41,900	35,300	29,900	22,600	15,200	7,100	40
50	48.1	31,000	26,400	22,200	16,600	11,200	4,800	50
60	35.9	24,400	20,800	17,400	12,900	8,500	3,400	60
69.06	20.0	20,200	17,200	14,400	10,500	6,900	2,400	69.06

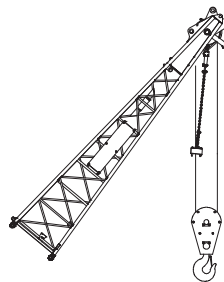
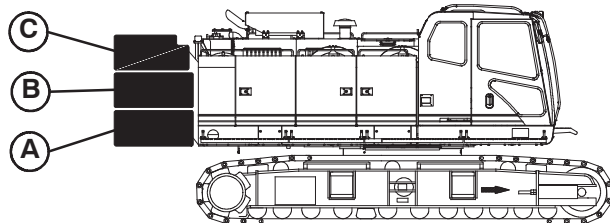
Note: Refer To Page 24 For “Capacity Deductions” Caused By Any Attachment At The Boom Tip.



Main Boom Capacities - 80' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation					Load Radius (ft)
			Side Frames Extended			Side Frames Retracted		
		ABC CTWT (lb)	ABC CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
17.17	80.0	110,900	110,900	103,600	79,900	48,000	25,400	17.17
18	79.4	109,000	109,000	95,600	73,700	44,900	23,700	18
19	78.7	104,800	102,100	87,400	67,400	41,600	21,800	19
20	77.9	99,700	94,100	80,500	62,000	38,700	20,200	20
25	74.2	80,000	67,100	57,300	43,900	28,500	14,500	25
30	70.5	62,700	51,900	44,200	33,700	22,300	11,000	30
35	66.6	50,300	42,100	35,700	27,100	18,100	8,700	35
40	62.7	41,800	35,200	29,800	22,500	15,100	7,000	40
50	54.3	31,000	26,300	22,100	16,500	11,100	4,700	50
60	44.8	24,300	20,700	17,300	12,800	8,500	3,300	60
70	33.5	19,800	16,900	14,000	10,200	6,600	2,200	70
78.46	20.0	17,000	14,400	11,900	8,600	5,500	1,600	78.46

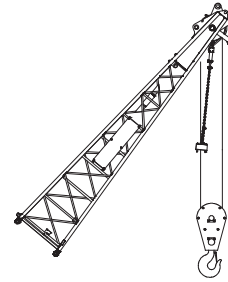
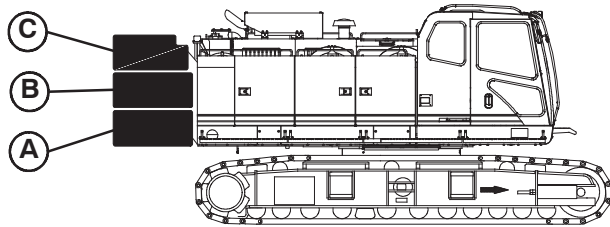
Note: Refer To Page 24 For “Capacity Deductions” Caused By Any Attachment At The Boom Tip.



Main Boom Capacities - 90' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation					Load Radius (ft)
			Side Frames Extended			Side Frames Retracted		
		ABC CTWT (lb)	ABC CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
18.91	80.0	99,500	99,500	88,100	67,900	41,800	21,900	18.91
19	79.9	99,300	99,300	87,400	67,300	41,500	21,800	19
20	79.3	97,400	94,000	80,400	61,900	38,600	20,100	20
25	76.0	79,800	67,100	57,300	43,900	28,400	14,400	25
30	72.7	62,600	51,800	44,100	33,600	22,200	10,900	30
35	69.4	50,200	42,000	35,700	27,000	18,000	8,600	35
40	65.9	41,700	35,100	29,700	22,400	15,000	6,900	40
50	58.7	30,900	26,200	22,000	16,400	10,900	4,600	50
60	50.9	24,200	20,600	17,200	12,700	8,300	3,200	60
70	42.2	19,700	16,700	13,900	10,100	6,500	2,100	70
80	31.5	16,400	14,000	11,500	8,200	5,200	-	80
87.85	20.0	14,400	12,200	10,000	7,000	4,300	-	87.85

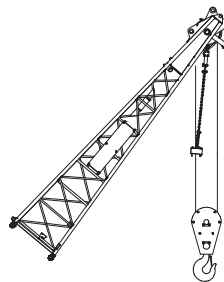
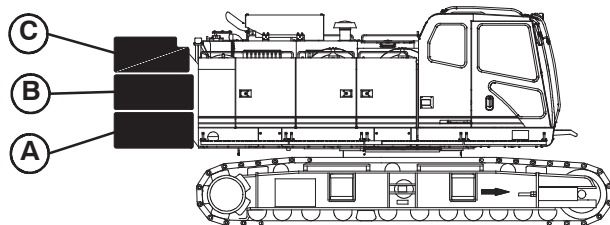
Note: Refer To Page 24 For “Capacity Deductions” Caused By Any Attachment At The Boom Tip.



Main Boom Capacities - 100' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation					Load Radius (ft)
			Side Frames Extended			Side Frames Retracted		
		ABC CTWT (lb)	ABC CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
20.65	80.0	88,500	88,500	76,500	58,800	36,900	PROHIBITED	20.65
25	77.5	79,600	67,000	57,200	43,800	28,300		25
30	74.5	62,600	51,700	44,000	33,500	22,100		30
35	71.5	50,100	41,900	35,600	26,900	17,900		35
40	68.5	41,600	35,000	29,600	22,300	14,900		40
50	62.1	30,800	26,000	21,900	16,300	10,800		50
60	55.4	24,100	20,400	17,100	12,500	8,200		60
70	48.1	19,600	16,600	13,800	10,000	6,400		70
80	39.9	16,300	13,800	11,400	8,100	5,000		80
90	29.9	13,900	11,700	9,600	6,700	4,000		90
97.25	20.0	12,400	10,400	8,500	5,800	3,400	97.25	

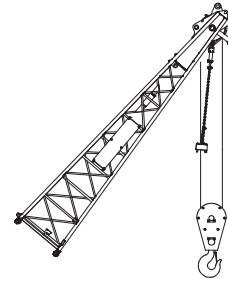
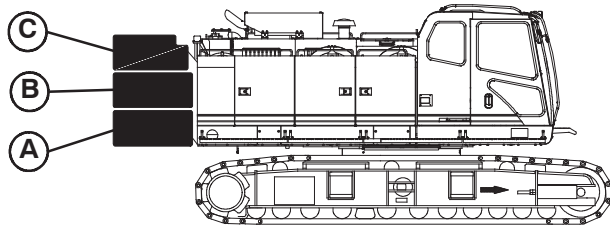
Note: Refer To Page 24 For “Capacity Deductions” Caused By Any Attachment At The Boom Tip.



Main Boom Capacities - 110' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation					Load Radius (ft)
			Side Frames Extended			Side Frames Retracted		
		ABC CTWT (lb)	ABC CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
22.38	80.0	79,700	78,900	67,400	51,700	32,800	PROHIBITED	22.38
25	78.6	76,200	66,900	57,100	43,700	28,200		25
30	75.9	62,500	51,600	43,900	33,400	21,900		30
35	73.2	50,000	41,800	35,400	26,800	17,700		35
40	70.5	41,500	34,900	29,500	22,200	14,700		40
50	64.9	30,600	25,900	21,800	16,200	10,700		50
60	59.0	24,000	20,300	17,000	12,400	8,000		60
70	52.7	19,500	16,500	13,700	9,800	6,200		70
80	45.8	16,200	13,700	11,300	8,000	4,900		80
90	38.0	13,700	11,600	9,400	6,500	3,900		90
100	28.4	11,800	9,900	8,000	5,400	3,000		100
106.65	20.0	10,700	9,000	7,200	4,800	2,600		106.65

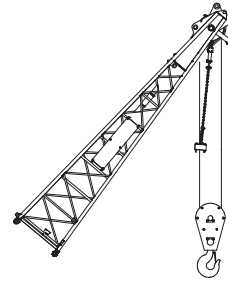
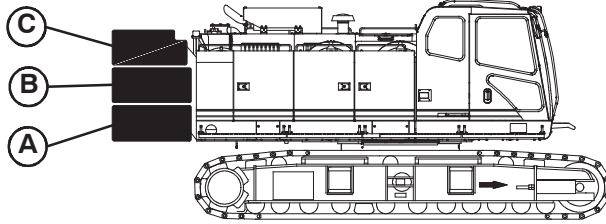
Note: Refer To Page 24 For “Capacity Deductions” Caused By Any Attachment At The Boom Tip.



Main Boom Capacities - 120' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation					Load Radius (ft)
			Side Frames Extended			Side Frames Retracted		
		ABC CTWT (lb)	ABC CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
24.12	80.0	71,700	70,500	60,100	46,100	29,500	PROHIBITED	24.12
25	79.6	70,600	66,800	57,000	43,600	28,000		25
30	77.1	62,400	51,500	43,800	33,300	21,800		30
35	74.7	49,900	41,600	35,300	26,700	17,600		35
40	72.2	41,400	34,700	29,400	22,100	14,600		40
50	67.1	30,500	25,800	21,600	16,000	10,500		50
60	61.8	23,800	20,200	16,800	12,300	7,900		60
70	56.2	19,300	16,300	13,500	9,700	6,100		70
80	50.3	16,100	13,500	11,100	7,800	4,700		80
90	43.7	13,600	11,400	9,300	6,400	3,700		90
100	36.3	11,700	9,800	7,800	5,300	2,900		100
110	27.2	10,100	8,400	6,700	4,300	2,200		110
116.04	20.0	9,300	7,700	6,100	3,900	1,900	116.04	

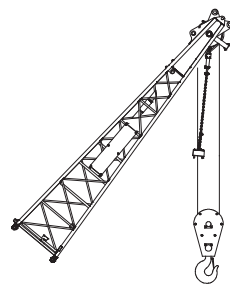
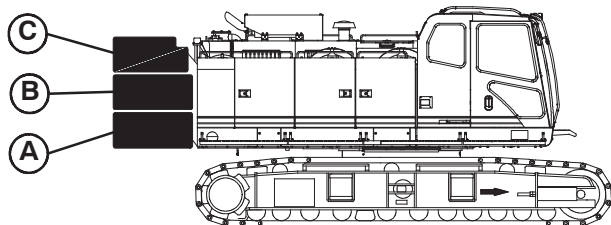
Note: Refer To Page 24 For “Capacity Deductions” Caused By Any Attachment At The Boom Tip.



Main Boom Capacities - 130' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation					Load Radius (ft)
			Side Frames Extended			Side Frames Retracted		
		ABC CTWT (lb)	ABC CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
25.86	80.0	63,300	63,300	54,200	41,400	26,600	PROHIBITED	25.86
30	78.1	59,100	51,400	43,700	33,200	21,600		30
35	75.9	49,800	41,500	35,200	26,600	17,400		35
40	73.6	41,300	34,600	29,200	21,900	14,400		40
50	68.9	30,400	25,600	21,500	15,900	10,300		50
60	64.1	23,700	20,000	16,700	12,100	7,700		60
70	59.1	19,200	16,200	13,400	9,500	5,900		70
80	53.8	15,900	13,400	11,000	7,700	4,600		80
90	48.2	13,400	11,300	9,100	6,200	3,500		90
100	41.9	11,500	9,600	7,700	5,100	2,700		100
110	34.8	9,900	8,300	6,500	4,200	2,100		110
120	26.1	8,700	7,100	5,600	3,400	1,500		120
125.44	20.0	8,000	6,600	5,100	3,100	-	125.44	

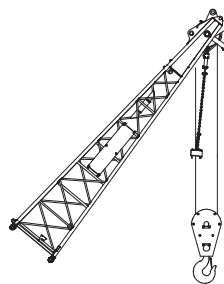
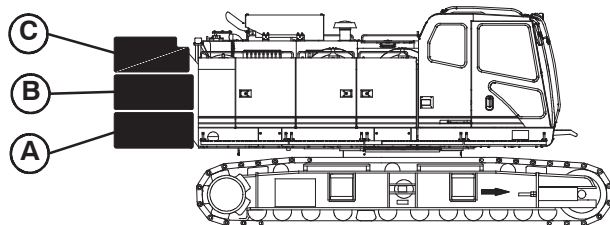
Note: Refer To Page 24 For “Capacity Deductions” Caused By Any Attachment At The Boom Tip.



Main Boom Capacities - 140' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation					Load Radius (ft)
			Side Frames Extended			Side Frames Retracted		
		ABC CTWT (lb)	ABC CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
27.59	80.0	56,800	56,800	49,100	37,400	24,200	PROHIBITED	27.59
30	79.0	54,700	51,300	43,600	33,100	21,500		30
35	76.9	49,700	41,400	35,000	26,400	17,300		35
40	74.8	41,200	34,500	29,100	21,800	14,200		40
50	70.5	30,200	25,500	21,300	15,700	10,200		50
60	66.1	23,500	19,900	16,500	12,000	7,600		60
70	61.5	19,000	16,000	13,200	9,400	5,700		70
80	56.8	15,700	13,200	10,800	7,500	4,400		80
90	51.7	13,300	11,100	9,000	6,100	3,400		90
100	46.3	11,300	9,400	7,500	4,900	2,600		100
110	40.3	9,800	8,100	6,400	4,000	1,900		110
120	33.5	8,500	7,000	5,400	3,300	-		120
130	25.2	7,400	6,000	4,600	2,600	-		130
134.84	20.0	7,000	5,600	4,200	2,400	-		134.84

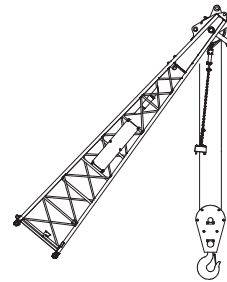
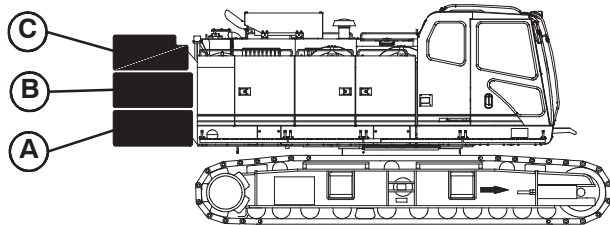
Note: Refer To Page 24 For “Capacity Deductions” Caused By Any Attachment At The Boom Tip.



Main Boom Capacities - 150' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation				Load Radius (ft)
			Side Frames Extended		Side Frames Retracted		
		ABC CTWT (lb)	ABC CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	A CTWT (lb)	
29.33	80.0	51,000	51,000	44,900	34,100	PROHIBITED	29.33
30	79.7	50,500	50,500	43,400	33,000		30
35	77.8	46,900	41,200	34,900	26,300		35
40	75.8	41,000	34,300	29,000	21,600		40
50	71.9	30,100	25,300	21,200	15,600		50
60	67.8	23,400	19,700	16,300	11,800		60
70	63.6	18,800	15,900	13,000	9,200		70
80	59.2	15,600	13,100	10,600	7,300		80
90	54.7	13,100	10,900	8,800	5,900		90
100	49.8	11,200	9,300	7,400	4,800		100
110	44.6	9,600	7,900	6,200	3,900		110
120	38.9	8,300	6,800	5,200	3,100		120
130	32.4	7,300	5,900	4,400	2,500		130
140	24.3	6,400	5,100	3,700	1,900		140
144.23	20.0	6,000	4,800	3,500	1,700		144.23

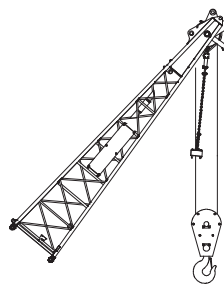
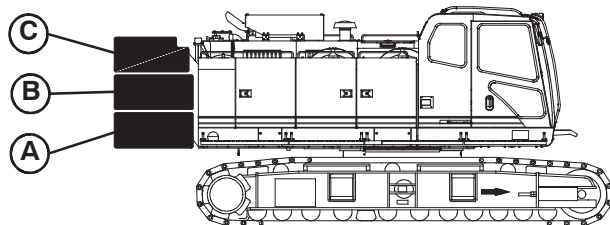
Note: Refer To Page 24 For “Capacity Deductions” Caused By Any Attachment At The Boom Tip.



Main Boom Capacities - 160' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation				Load Radius (ft)
			Side Frames Extended			Side Frames Retracted	
		ABC CTWT (lb)	ABC CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	A CTWT (lb)	
31.06	80.0	44,700	44,700	41,200	31,200	PROHIBITED	31.06
35	78.6	42,100	41,100	34,800	26,100		35
40	76.7	37,900	34,200	28,800	21,500		40
50	73.0	29,900	25,200	21,000	15,400		50
60	69.2	23,200	19,500	16,200	11,600		60
70	65.4	18,700	15,700	12,900	9,000		70
80	61.3	15,400	12,900	10,500	7,100		80
90	57.2	12,900	10,800	8,600	5,700		90
100	52.8	11,000	9,100	7,200	4,600		100
110	48.2	9,500	7,700	6,000	3,700		110
120	43.2	8,200	6,600	5,100	2,900		120
130	37.6	7,100	5,700	4,300	2,300		130
140	31.3	6,000	4,900	3,600	1,800		140
150	23.5	5,000	4,200	3,000	-		150
153.63	20.0	4,700	4,000	2,800	-		153.63

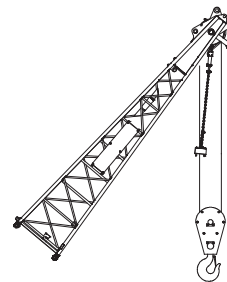
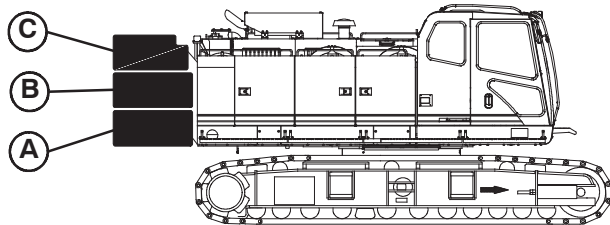
Note: Refer To Page 24 For “Capacity Deductions” Caused By Any Attachment At The Boom Tip.



Main Boom Capacities - 170' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation					Load Radius (ft)
			Side Frames Extended			Side Frames Retracted		
		ABC CTWT (lb)	ABC CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
32.8	80.0	39,100	39,100	38,000	PROHIBITED			32.8
35	79.2	37,600	37,600	34,600				35
40	77.5	33,900	33,900	28,600				40
50	74.0	29,800	25,000	20,900				50
60	70.5	23,000	19,300	16,000				60
70	66.9	18,500	15,500	12,700				70
80	63.2	15,200	12,700	10,300				80
90	59.3	12,800	10,600	8,400				90
100	55.3	10,800	8,900	7,000				100
110	51.1	9,300	7,600	5,800				110
120	46.6	8,000	6,500	4,900				120
130	41.8	6,900	5,500	4,100				130
140	36.5	6,000	4,700	3,400				140
150	30.3	5,200	4,000	2,800				150
160	22.8	4,500	3,400	2,300				160
163.03	20.0	4,300	3,300	2,100				163.03

Note: Refer To Page 24 For “Capacity Deductions” Caused By Any Attachment At The Boom Tip.



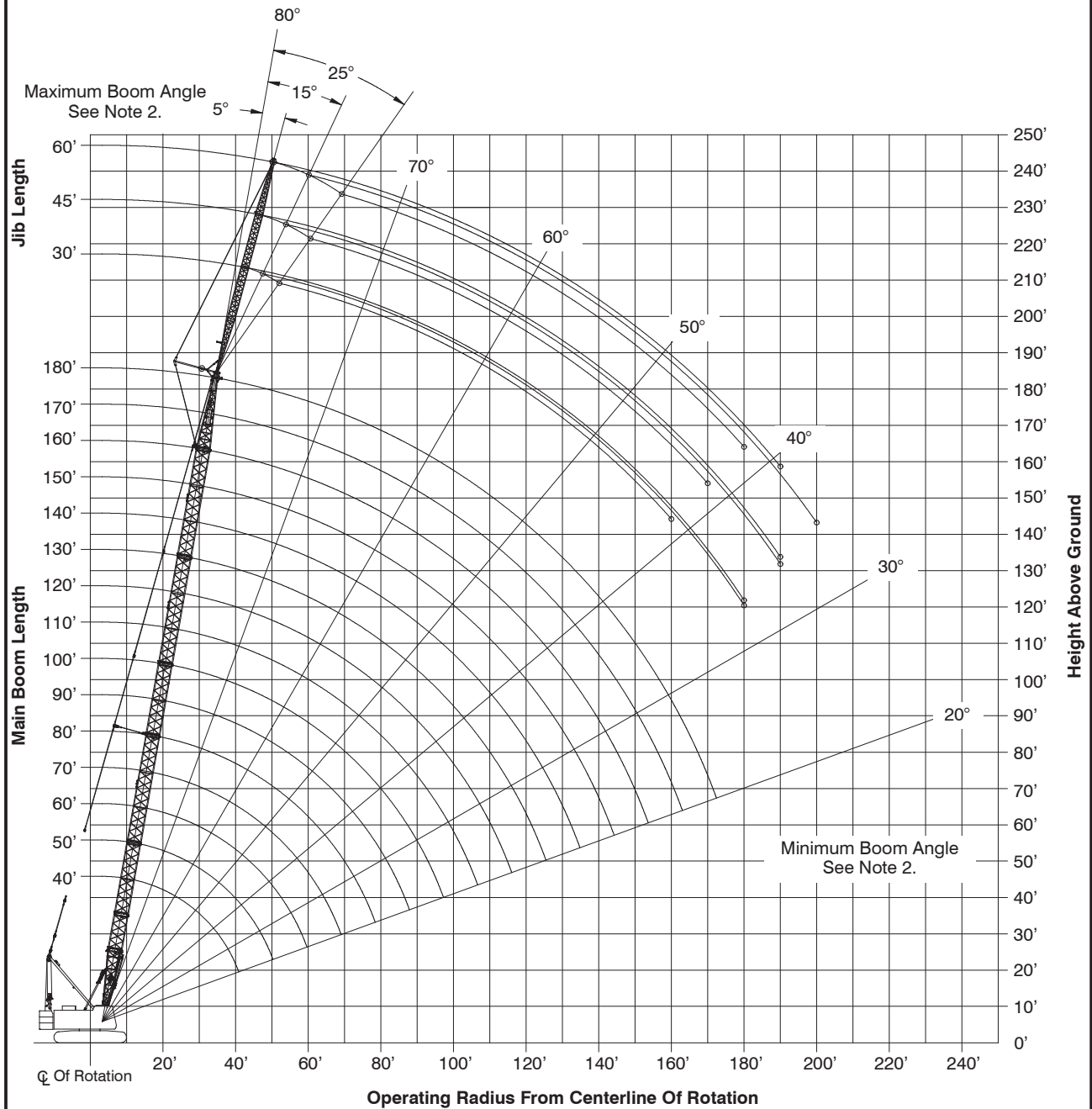
Main Boom Capacities - 180' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation					Load Radius (ft)
			Side Frames Extended			Side Frames Retracted		
		ABC CTWT (lb)	ABC CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
34.54	80.0	36,900	36,600	35,100	PROHIBITED			34.54
35	79.9	36,800	36,600	34,500				35
40	78.2	35,200	33,900	28,500				40
50	75.0	29,600	24,800	20,700				50
60	71.6	22,900	19,200	15,800				60
70	68.2	18,300	15,300	12,500				70
80	64.8	15,100	12,500	10,100				80
90	61.2	12,600	10,400	8,300				90
100	57.5	10,700	8,700	6,800				100
110	53.6	9,100	7,400	5,700				110
120	49.6	7,800	6,300	4,700				120
130	45.3	6,700	5,300	3,900				130
140	40.6	5,800	4,500	3,200				140
150	35.4	5,100	3,900	2,600				150
160	29.5	4,400	3,300	2,100				160
170	22.1	3,800	2,700	1,600				170
172.43	20.0	3,600	2,600	1,500				172.43

Note: Refer To Page 24 For “Capacity Deductions” Caused By Any Attachment At The Boom Tip.

Working Range Diagram

40' To 180' Main Boom With 30' To 60' Jib



Notes:

1. Boom geometry shown is for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius, and boom angle change must be accounted for when applying load to hook.
2. Maximum and minimum boom angles are equal to the values listed in the capacity chart for each boom length.

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138 HSL - with 44" x 54" Tube Boom, with 24" x 32" Tube Jib, with "ABC" Ctwt, with Extended Side Frames											
Refer to the Tubular Jib Notes for Open Throat Tube Boom in this Crane Rating Manual before operating the crane.											
Jib Angle to Boom											
Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)
40	30	18.25	80.0	76.1	24,000	24,000					
40	30	19	79.4	75.9	24,000	24,000					
40	30	20	78.6	75.7	24,000	24,000					
40	30	25	74.4	74.5	24,000	24,000	78.4	74.3	24,000	24,000	
40	30	30	70.1	72.8	24,000	24,000	74.1	72.6	24,000	24,000	78.0
40	30	35	65.7	70.7	24,000	24,000	69.7	70.5	23,800	23,800	73.4
40	30	40	61.2	68.1	24,000	24,000	65.1	67.9	21,200	21,200	68.7
40	30	50	51.2	61.1	21,100	21,100	55.1	60.8	17,400	17,400	58.5
40	30	60	39.5	50.8	17,400	17,400	43.2	50.3	16,300	16,300	46.2
40	45	22.13	80.0	90.6	24,000	24,000					
40	45	25	78.0	90.0	24,000	24,000					
40	45	30	74.6	88.6	24,000	24,000	79.7	88.3	19,200	19,200	
40	45	35	71.1	86.9	21,800	21,800	76.1	86.6	17,300	17,300	
40	45	40	67.5	84.9	19,100	19,100	72.5	84.6	16,700	16,700	77.2
40	45	50	59.9	79.5	16,700	16,700	64.8	79.3	13,600	13,600	69.4
40	45	60	51.6	72.2	13,700	13,700	56.4	71.9	11,500	11,500	60.8
40	45	70	42.1	62.2	11,700	11,700	46.7	61.7	10,000	10,000	50.8
40	45	80	30.0	47.2	10,200	10,200					
40	60	26.02	80.0	105.4	21,200	21,200					
40	60	30	77.7	104.5	21,200	21,200					
40	60	35	74.7	103.1	18,300	18,300					
40	60	40	71.7	101.5	17,300	17,300	77.5	101.2	13,800	13,800	
40	60	50	65.5	97.3	13,800	13,800	71.2	97.0	11,200	11,200	76.7
40	60	60	58.9	91.6	11,300	11,300	64.6	91.4	9,400	9,400	69.9
40	60	70	51.8	84.2	9,600	9,600	57.4	84.0	8,100	8,100	62.5
40	60	80	43.8	74.5	8,300	8,300	49.2	74.1	7,100	7,100	54.1
40	60	90	34.2	61.0	7,300	7,300	39.4	60.4	6,400	6,400	

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138 HSL - with 44" x 54" Tube Boom, with 24" x 32" Tube Jib, with "ABC" Ctwt, with Extended Side Frames											
Refer to the Tubular Jib Notes for Open Throat Tube Boom in this Crane Rating Manual before operating the crane.											
Jib Angle to Boom											
Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)
50	30	19.99	80.0	85.9	24,000	24,000	79.9	84.6	24,000	24,000	
50	30	25	76.4	84.8	24,000	24,000	76.2	83.1	24,000	24,000	20,600
50	30	30	72.7	83.4	24,000	24,000	72.4	81.3	24,000	24,000	18,700
50	30	35	68.9	81.6	24,000	24,000	68.5	79.1	23,000	23,000	17,400
50	30	40	65.0	79.4	24,000	24,000	60.2	73.4	19,000	19,000	15,700
50	30	50	56.8	73.6	23,800	23,700	51.0	65.2	17,400	17,400	14,100
50	30	60	47.7	65.6	19,700	19,700	39.9	53.5	15,700	15,700	
50	30	70	36.8	54.1	17,400	17,400					
50	45	23.87	80.0	100.4	24,000	24,000					
50	45	25	79.3	100.2	24,000	24,000					
50	45	30	76.2	99.0	24,000	24,000					
50	45	35	73.1	97.5	23,600	23,600	77.6	97.1	17,800	17,800	
50	45	40	69.9	95.7	20,800	20,800	74.4	95.3	17,300	17,300	13,000
50	45	50	63.3	91.1	17,300	17,300	67.8	90.7	14,600	14,600	11,100
50	45	60	56.3	84.9	15,200	15,200	60.6	84.5	12,400	12,400	9,700
50	45	70	48.5	76.7	12,900	12,900	52.8	76.3	10,800	10,800	8,700
50	45	80	39.6	65.7	11,300	11,300	43.7	65.1	9,700	9,700	8,000
50	45	90	28.2	49.6	10,000	10,000					
50	60	27.75	80.0	115.2	24,000	22,600					
50	60	30	78.8	114.7	22,600	22,600					
50	60	35	76.1	113.5	19,500	19,500					
50	60	40	73.4	112.0	17,200	17,200	78.7	111.7	14,400	14,400	
50	60	50	67.9	108.3	15,000	15,000	73.1	108.0	11,800	11,800	8,900
50	60	60	62.1	103.3	12,400	12,400	67.2	103.0	10,000	10,000	7,700
50	60	70	55.9	96.9	10,500	10,500	61.0	96.6	8,600	8,600	6,800
50	60	80	49.2	88.7	9,100	9,100	54.1	88.3	7,600	7,600	6,100
50	60	90	41.6	78.1	8,000	8,000	46.4	77.6	6,800	6,800	5,600
50	60	100	32.4	63.8	7,200	7,200	37.0	62.9	6,200	6,200	

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138 HSL - with 44" x 54" Tube Boom, with 24" x 32" Tube Jib, with "ABC" Ctwt, with Extended Side Frames														
Refer to the Tubular Jib Notes for Open Throat Tube Boom in this Crane Rating Manual before operating the crane.														
Jib Angle to Boom														
Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	5 Degrees			15 Degrees			25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)
60	30	21.72	80.0	95.8	24,000	24,000								
60	30	25	77.9	95.1	24,000	24,000								
60	30	30	74.6	93.8	24,000	24,000	77.8	93.6	24,000	24,000	77.4	90.9	19,500	19,500
60	30	35	71.3	92.3	24,000	24,000	74.5	92.0	24,000	24,000	73.9	89.0	18,000	18,000
60	30	40	68.0	90.3	24,000	24,000	71.1	90.1	24,000	24,000	66.7	83.9	16,400	16,400
60	30	50	60.9	85.4	24,000	24,000	63.9	85.1	20,500	20,500	58.9	77.0	14,800	14,800
60	30	60	53.3	78.7	21,900	21,100	56.2	78.4	17,700	17,700	50.0	67.6	13,600	13,600
60	30	70	44.8	69.7	18,700	17,200	47.6	69.3	17,200	17,200				
60	30	80	34.6	57.1	16,900	14,500	37.2	56.5	15,400	14,500				
60	45	25.61	80.0	110.3	24,000	24,000								
60	45	30	77.6	109.3	24,000	24,000								
60	45	35	74.8	108.0	24,000	24,000	78.9	107.6	18,600	18,600				
60	45	40	71.9	106.4	22,500	22,500	76.0	106.0	17,300	17,300	79.9	104.5	13,400	13,400
60	45	50	66.1	102.3	18,100	18,100	70.1	101.9	15,500	15,500	73.8	100.3	11,600	11,600
60	45	60	59.9	96.9	16,700	16,700	63.8	96.5	13,300	13,300	67.5	94.7	10,200	10,200
60	45	70	53.3	89.9	14,200	14,200	57.1	89.4	11,600	11,600	60.6	87.5	9,200	9,200
60	45	80	46.0	80.9	12,400	12,400	49.7	80.4	10,400	10,400	53.0	78.2	8,400	8,400
60	45	90	37.5	69.0	11,000	11,000	41.1	68.3	9,400	9,400				
60	45	100	26.7	51.8	9,900	9,900								
60	60	29.49	80.0	125.0	23,900	23,900								
60	60	30	79.8	124.9	23,900	23,900								
60	60	35	77.3	123.8	20,800	20,800								
60	60	40	74.9	122.5	18,300	18,300	79.7	122.1	15,000	15,000				
60	60	50	69.8	119.1	16,200	16,200	74.6	118.7	12,400	12,400	79.1	117.0	9,100	9,100
60	60	60	64.6	114.6	13,400	13,400	69.3	114.2	10,500	10,500	73.8	112.4	8,000	8,000
60	60	70	59.1	109.0	11,300	11,300	63.8	108.6	9,200	9,200	68.1	106.6	7,100	7,100
60	60	80	53.3	101.9	9,800	9,800	57.8	101.4	8,100	8,100	62.0	99.2	6,400	6,400
60	60	90	46.9	93.0	8,700	8,700	51.4	92.5	7,300	7,300	55.4	90.0	5,800	5,800
60	60	100	39.6	81.6	7,800	7,800	44.0	80.9	6,600	6,600	47.7	77.9	5,400	5,400
60	60	110	30.9	66.4	7,000	7,000	35.0	65.3	6,100	6,100				

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138 HSL - with 44" x 54" Tube Boom, with 24" x 32" Tube Jib, with "ABC" Ctwt, with Extended Side Frames

Refer to the Tubular Jib Notes for Open Throat Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												
			5 Degrees				15 Degrees				25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	
70	30	23.46	80.0	105.6	24,000	24,000									
70	30	25	79.1	105.3	24,000	24,000									
70	30	30	76.2	104.2	24,000	24,000	79.0	103.9	24,000	24,000	78.7	101.4	20,100	20,100	
70	30	35	73.3	102.8	24,000	24,000	76.1	102.5	24,000	24,000	75.7	99.7	18,600	18,600	
70	30	40	70.2	101.1	24,000	24,000	73.0	100.8	24,000	24,000	69.3	95.2	17,100	17,100	
70	30	50	64.0	96.8	24,000	24,000	66.8	96.5	21,900	21,900	62.6	89.3	15,500	15,500	
70	30	60	57.5	91.0	24,000	20,900	60.2	90.7	18,900	18,900	55.2	81.5	14,200	14,200	
70	30	70	50.3	83.5	20,000	17,100	53.0	83.1	17,300	17,200	46.9	71.2	13,300	13,300	
70	30	80	42.3	73.6	16,800	14,300	44.8	73.1	16,900	14,400					
70	30	90	32.7	60.0	14,300	12,200	35.0	59.3	14,400	12,200					
70	45	27.34	80.0	120.1	24,000	24,000									
70	45	30	78.7	119.6	24,000	24,000									
70	45	35	76.1	118.4	24,000	24,000	79.9	117.9	19,300	19,300					
70	45	40	73.5	116.9	24,000	24,000	77.3	116.5	17,500	17,500					
70	45	50	68.3	113.2	19,500	19,500	71.9	112.8	16,400	16,400	75.4	111.1	12,000	12,000	
70	45	60	62.8	108.4	17,300	17,300	66.4	108.0	14,100	14,100	69.7	106.2	10,600	10,600	
70	45	70	57.0	102.3	15,400	15,400	60.5	101.8	12,300	12,300	63.7	99.9	9,600	9,600	
70	45	80	50.7	94.6	13,500	13,400	54.2	94.1	11,000	11,000	57.3	92.0	8,800	8,800	
70	45	90	43.8	84.9	11,900	11,900	47.1	84.2	10,000	10,000	50.0	81.8	8,100	8,100	
70	45	100	35.7	72.1	10,800	10,600	39.0	71.3	9,200	9,200					
70	60	31.23	80.0	134.9	21,900	21,900									
70	60	35	78.3	134.1	21,900	21,900									
70	60	40	76.1	132.9	19,400	19,400									
70	60	50	71.4	129.8	17,300	17,300	75.8	129.3	12,900	12,900					
70	60	60	66.7	125.7	14,300	14,300	71.1	125.3	11,100	11,100	75.2	123.4	8,200	8,200	
70	60	70	61.8	120.6	12,200	12,200	66.1	120.2	9,700	9,700	70.1	118.1	7,300	7,300	
70	60	80	56.5	114.3	10,600	10,600	60.8	113.9	8,600	8,600	64.7	111.6	6,600	6,600	
70	60	90	51.0	106.6	9,400	9,400	55.1	106.1	7,700	7,700	58.9	103.6	6,100	6,100	
70	60	100	44.9	97.0	8,400	8,400	49.0	96.4	7,000	7,000	52.5	93.6	5,600	5,600	
70	60	110	38.0	85.0	7,600	7,600	41.9	84.1	6,500	6,500	45.2	80.7	5,300	5,300	
70	60	120	29.6	68.9	7,000	6,900									

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138 HSL - with 44" x 54" Tube Boom, with 24" x 32" Tube Jib, with "ABC" Ctwt, with Extended Side Frames											
Refer to the Tubular Jib Notes for Open Throat Tube Boom in this Crane Rating Manual before operating the crane.											
Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom						25 Degrees		
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Over End Blocked Jib Capacity (lbs)
80	30	25.2	80.0	115.5	24,000	24,000					
80	30	30	77.5	114.5	24,000	24,000					
80	30	35	74.8	113.2	24,000	24,000	77.4	112.9	24,000	24,000	20,600
80	30	40	72.1	111.7	24,000	24,000	74.7	111.4	24,000	24,000	19,200
80	30	50	66.6	107.8	24,000	24,000	69.1	107.5	23,200	23,200	17,300
80	30	60	60.7	102.7	24,000	20,700	63.2	102.4	20,100	20,100	16,100
80	30	70	54.6	96.2	19,900	16,900	57.0	95.9	17,800	17,100	14,800
80	30	80	47.8	88.0	16,600	14,100	50.2	87.5	16,700	14,200	13,800
80	30	90	40.2	77.3	14,100	12,000	42.5	76.7	14,200	12,100	
80	30	100	31.1	62.8	12,200	10,300	33.2	61.9	12,300	10,400	
80	45	29.08	80.0	130.0	24,000	24,000					
80	45	30	79.6	129.8	24,000	24,000					
80	45	35	77.2	128.7	24,000	24,000					
80	45	40	74.9	127.3	24,000	24,000	78.3	126.9	18,200	18,200	
80	45	50	70.1	124.0	20,800	20,800	73.5	123.5	17,200	17,200	12,300
80	45	60	65.1	119.6	17,500	17,500	68.5	119.2	14,800	14,800	11,000
80	45	70	59.9	114.2	16,600	16,600	63.2	113.7	13,100	13,100	9,900
80	45	80	54.4	107.4	14,500	14,200	57.6	106.9	11,700	11,700	9,100
80	45	90	48.4	99.1	12,900	12,100	51.6	98.5	10,600	10,600	8,500
80	45	100	41.8	88.6	11,600	10,500	44.9	87.9	9,800	9,800	7,900
80	45	110	34.2	75.1	10,800	9,100	37.1	74.1	9,100	9,100	
80	45	120	24.3	56.0	9,500	8,000					
80	60	32.96	80.0	144.7	23,000	23,000					
80	60	35	79.2	144.3	23,000	23,000					
80	60	40	77.1	143.2	20,400	20,400					
80	60	50	72.8	140.3	17,300	17,300	76.9	139.8	13,400	13,400	
80	60	60	68.5	136.6	15,300	15,300	72.5	136.1	11,600	11,600	8,400
80	60	70	64.0	132.0	13,000	13,000	68.0	131.5	10,100	10,100	7,600
80	60	80	59.3	126.3	11,300	11,300	63.2	125.8	9,000	9,000	6,900
80	60	90	54.3	119.4	10,000	10,000	58.2	118.9	8,100	8,100	6,300
80	60	100	48.9	111.1	9,000	9,000	52.8	110.5	7,400	7,400	5,900
80	60	110	43.1	100.9	8,100	8,100	46.8	100.1	6,800	6,800	5,500
80	60	120	36.5	88.1	7,400	7,400	40.1	87.2	6,300	6,300	
80	60	130	28.4	71.3	6,900	6,900					

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138 HSL - with 44" x 54" Tube Boom, with 24" x 32" Tube Jib, with "ABC" Ctwt, with Extended Side Frames

Refer to the Tubular Jib Notes for Open Throat Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)		Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												
				5 Degrees				15 Degrees				25 Degrees				
				Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	
90	30	26.93	80.0	125.3	24,000	24,000										
90	30	30	78.5	124.7	24,000	24,000										
90	30	35	76.1	123.6	24,000	24,000	78.5	123.2								
90	30	40	73.6	122.2	24,000	24,000	76.0	121.9								
90	30	50	68.6	118.7	24,000	24,000	70.9	118.3								
90	30	60	63.4	114.1	24,000	20,600	65.7	113.8								
90	30	70	57.9	108.3	19,700	16,700	60.1	108.0								
90	30	80	52.0	101.2	16,400	13,900	54.2	100.8								
90	30	90	45.6	92.2	14,000	11,800	47.8	91.7								
90	30	100	38.4	80.8	12,000	10,100	40.4	80.1								
90	30	110	29.7	65.4	10,500	8,800	31.6	64.4								
90	45	30.82	80.0	139.8	24,000	24,000										
90	45	35	78.2	138.9	24,000	24,000										
90	45	40	76.0	137.7	24,000	24,000	79.2	137.2								
90	45	50	71.6	134.6	22,100	22,000	74.8	134.1								
90	45	60	67.1	130.7	18,600	18,600	70.2	130.2								
90	45	70	62.4	125.7	17,300	16,900	65.4	125.2								
90	45	80	57.4	119.7	15,600	14,100	60.4	119.1								
90	45	90	52.2	112.3	14,100	11,900	55.1	111.7								
90	45	100	46.5	103.3	12,200	10,300	49.4	102.6								
90	45	110	40.2	92.2	10,600	8,900	42.9	91.4								
90	45	120	32.8	78.0	9,300	7,800	35.4	76.8								
90	45	130	23.3	58.0	8,300	6,900										
90	60	34.7	80.0	154.6	24,000	24,000										
90	60	35	79.9	154.5	24,000	24,000										
90	60	40	77.9	153.5	21,400	21,400										
90	60	50	74.0	150.8	17,500	17,500	77.8	150.3								
90	60	60	70.0	147.4	16,200	16,200	73.8	146.9								
90	60	70	65.8	143.1	13,900	13,900	69.6	142.6								
90	60	80	61.5	137.9	12,100	12,100	65.2	137.4								
90	60	90	57.0	131.7	10,700	10,700	60.7	131.1								
90	60	100	52.3	124.3	9,600	9,600	55.9	123.7								
90	60	110	47.1	115.4	8,700	8,700	50.7	114.7								
90	60	120	41.5	104.6	7,900	7,900	45.0	103.7								
90	60	130	35.1	91.2	7,300	6,900	38.4	90.1								
90	60	140	27.4	73.6	7,200	6,100										

Refer to the Tubular Jib Notes for Open Throat Tube Boom in this Crane Rating Manual before operating the crane.

Refer to the Tubular Jib Notes for Open Throat Tube Boom in this Crane Rating Manual before operating the crane.

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138 HSL - with 44" x 54" Tube Boom, with 24" x 32" Tube Jib, with "ABC" Ctwt, with Extended Side Frames

Refer to the Tubular Jib Notes for Open Throat Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												
			5 Degrees				15 Degrees				25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	
110	30	30.41	80.0	145.0	24,000	24,000									
110	30	35	78.1	144.1	24,000	24,000									
110	30	40	76.0	142.9	24,000	24,000	78.0	142.6	24,000	24,000	79.9	141.4	20,700	20,700	
110	30	50	71.8	140.0	24,000	24,000	73.8	139.6	24,000	24,000	75.6	138.4	18,500	18,500	
110	30	60	67.4	136.2	23,700	20,200	69.4	135.8	22,900	20,500	71.2	134.5	17,300	17,300	
110	30	70	62.9	131.4	19,300	16,400	64.9	131.1	19,600	16,600	66.6	129.7	16,300	16,300	
110	30	80	58.2	125.7	16,100	13,600	60.1	125.3	16,300	13,700	61.8	123.8	15,200	13,900	
110	30	90	53.2	118.7	13,600	11,400	55.1	118.3	13,800	11,600	56.7	116.7	13,900	11,700	
110	30	100	47.9	110.3	11,700	9,800	49.7	109.8	11,800	9,900	51.2	108.0	11,900	10,000	
110	30	110	42.1	100.1	10,100	8,400	43.8	99.5	10,200	8,500	45.2	97.4	10,300	8,600	
110	30	120	35.4	87.2	8,800	7,300	37.1	86.5	8,900	7,400					
110	30	130	27.4	70.3	7,800	6,400									
110	45	34.29	80.0	159.5	24,000	24,000									
110	45	35	79.7	159.4	24,000	24,000									
110	45	40	77.9	158.3	24,000	24,000									
110	45	50	74.1	155.7	22,900	22,900	76.8	155.1	17,100	17,100	79.4	153.3	13,100	13,100	
110	45	60	70.2	152.3	20,000	20,000	72.9	151.7	16,800	16,800	75.4	149.9	11,900	11,900	
110	45	70	66.2	148.1	17,600	16,500	68.9	147.6	14,900	14,900	71.3	145.6	10,900	10,900	
110	45	80	62.1	143.0	16,200	13,700	64.7	142.5	13,400	13,400	67.1	140.5	10,100	10,100	
110	45	90	57.8	137.0	13,700	11,600	60.4	136.4	12,300	11,800	62.7	134.3	9,400	9,400	
110	45	100	53.2	129.9	11,800	9,900	55.8	129.3	12,000	10,100	58.0	126.9	8,800	8,800	
110	45	110	48.4	121.4	10,200	8,500	50.9	120.7	10,400	8,700	53.1	118.2	8,300	8,300	
110	45	120	43.2	111.3	9,000	7,400	45.6	110.5	9,100	7,600	47.6	107.6	7,900	7,700	
110	45	130	37.3	99.0	7,900	6,500	39.7	98.0	8,000	6,600					
110	45	140	30.5	83.4	7,000	5,700	32.7	82.0	7,100	5,800					
110	60	38.17	80.0	174.3	22,700	22,600									
110	60	40	79.4	173.9	22,700	22,600									
110	60	50	75.9	171.6	19,100	19,100	79.3	171.0	14,700	14,700					
110	60	60	72.4	168.6	17,200	17,200	75.8	168.0	12,800	12,800	78.9	165.9	9,000	9,000	
110	60	70	68.8	164.9	15,400	15,400	72.2	164.4	11,400	11,400	75.3	162.1	8,200	8,200	
110	60	80	65.1	160.5	13,500	13,500	68.4	159.9	10,200	10,200	71.5	157.6	7,500	7,500	
110	60	90	61.3	155.2	12,000	11,600	64.6	154.6	9,300	9,300	67.6	152.2	6,900	6,900	
110	60	100	57.4	149.1	10,800	9,900	60.6	148.4	8,500	8,500	63.5	145.8	6,500	6,500	
110	60	110	53.2	141.9	10,300	8,600	56.4	141.2	7,800	7,800	59.2	138.4	6,100	6,100	
110	60	120	48.8	133.4	9,000	7,500	51.9	132.7	7,300	7,300	54.6	129.6	5,700	5,700	
110	60	130	44.1	123.5	7,900	6,500	47.1	122.6	6,800	6,700	49.6	119.2	5,400	5,400	
110	60	140	38.8	111.6	7,000	5,800	41.8	110.5	6,400	5,900					
110	60	150	32.8	97.0	6,300	5,100	35.7	95.6	6,400	5,200					
110	60	160	25.6	77.9	5,600	4,500									

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138 HSL - with 44" x 54" Tube Boom, with 24" x 32" Tube Jib, with "ABC" Ctwt, with Extended Side Frames

Refer to the Tubular Jib Notes for Open Throat Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom													
			5 Degrees			15 Degrees			25 Degrees							
			Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)		
120	30	32.14	80.0	154.9	24,000	24,000										
120	30	35	78.9	154.3	24,000	24,000										
120	30	40	77.0	153.2	24,000	24,000	78.8	152.9	24,000	24,000	76.6	148.9	18,900	18,900		
120	30	50	73.0	150.5	24,000	24,000	74.9	150.1	24,000	20,300	72.5	145.3	17,200	17,200		
120	30	60	69.0	147.0	23,600	20,000	70.8	146.6	22,600	19,400	68.3	140.9	16,700	16,700		
120	30	70	64.8	142.6	19,200	16,200	66.7	142.3	19,400	16,100	63.9	135.5	16,300	13,800		
120	30	80	60.5	137.4	15,900	13,400	62.3	137.0	16,100	13,600	59.3	129.1	13,700	11,600		
120	30	90	56.0	131.1	13,400	11,200	57.8	130.7	13,600	11,400	54.5	121.4	11,700	9,800		
120	30	100	51.3	123.6	11,500	9,600	53.0	123.1	11,600	9,700	49.2	112.1	10,100	8,400		
120	30	110	46.2	114.6	9,900	8,200	47.9	114.1	10,000	8,300	43.4	100.9	8,800	7,300		
120	30	120	40.6	103.8	8,600	7,100	42.2	103.1	8,700	7,200						
120	30	130	34.2	90.3	7,600	6,200	35.7	89.5	7,700	6,300						
120	30	140	26.4	72.6	6,700	5,400										
120	45	36.03	80.0	169.4	24,000	24,000										
120	45	40	78.6	168.6	24,000	24,000										
120	45	50	75.0	166.1	22,800	22,800	77.6	165.5	17,600	17,600	76.4	160.5	12,100	12,100		
120	45	60	71.4	162.9	19,800	19,800	74.0	162.4	17,200	17,200	72.6	156.5	11,100	11,100		
120	45	70	67.7	159.0	17,600	16,300	70.2	158.5	15,500	15,500	68.7	151.8	10,300	10,300		
120	45	80	63.9	154.4	16,000	13,500	66.4	153.8	14,000	13,800	64.6	146.1	9,600	9,600		
120	45	90	59.9	148.8	13,500	11,400	62.4	148.2	12,800	11,600	60.4	139.4	9,000	9,000		
120	45	100	55.8	142.3	11,600	9,700	58.2	141.7	11,800	10,200	55.9	131.6	8,500	8,500		
120	45	110	51.4	134.7	10,000	8,300	53.8	134.0	10,900	8,900	51.1	122.3	7,500	7,500		
120	45	120	46.8	125.7	8,800	7,200	49.1	125.0	8,900	7,400	45.8	111.2	7,900	6,500		
120	45	130	41.7	115.1	7,700	6,300	44.0	114.2	7,800	6,400						
120	45	140	36.1	102.2	6,800	5,500	38.3	101.1	6,900	5,600						
120	45	150	29.5	85.9	6,000	4,800										
120	60	40	80.0	184.1	19,300	19,300										
120	60	50	76.7	181.9	19,300	19,300	79.9	181.3	16,900	16,900						
120	60	60	73.4	179.1	17,200	17,200	76.6	178.5	13,200	13,200	79.6	176.3	9,100	9,100		
120	60	70	70.1	175.7	15,500	15,500	73.2	175.1	11,700	11,700	76.2	172.8	8,300	8,300		
120	60	80	66.6	171.5	13,800	13,600	69.7	170.9	10,600	10,600	72.6	168.6	7,700	7,700		
120	60	90	63.1	166.6	12,400	11,400	66.2	166.0	9,600	9,600	69.0	163.6	7,100	7,100		
120	60	100	59.4	160.9	11,700	9,800	62.5	160.3	8,800	8,800	65.2	157.7	6,600	6,600		
120	60	110	55.6	154.3	10,100	8,400	58.6	153.6	8,100	8,100	61.3	150.9	6,200	6,200		
120	60	120	51.6	146.7	8,800	7,300	54.6	145.9	7,600	7,500	57.1	143.0	5,900	5,900		
120	60	130	47.3	137.8	7,800	6,300	50.2	136.9	7,100	6,500	52.7	133.7	5,600	5,600		
120	60	140	42.7	127.3	6,800	5,600	45.6	126.4	7,000	5,700	47.9	122.8	5,300	5,200		
120	60	150	37.6	114.9	6,100	4,900	40.4	113.8	6,200	5,000						
120	60	160	31.9	99.8	5,400	4,300	34.5	98.2	5,500	4,400						
120	60	170	24.8	80.0	4,800	3,800										

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138 HSL - with 44" x 54" Tube Boom, with 24" x 32" Tube Jib, with "ABC" Ctwt, with Extended Side Frames

Refer to the Tubular Jib Notes for Open Throat Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												
			5 Degrees			15 Degrees			25 Degrees						
			Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	
130	30	33.88	80.0	164.7	24,000	24,000									
130	30	35	79.6	164.5	24,000	24,000									
130	30	40	77.8	163.5	24,000	24,000	79.6	163.1	24,000	24,000	77.5	159.3	19,300	19,300	
130	30	50	74.1	160.9	24,000	24,000	75.9	160.6	24,000	24,000	73.7	156.0	17,600	17,600	
130	30	60	70.4	157.7	23,400	19,900	72.1	157.3	22,500	20,200	69.8	151.9	17,100	16,500	
130	30	70	66.5	153.6	19,000	16,000	68.2	153.3	19,300	16,300	65.8	147.0	16,100	13,600	
130	30	80	62.5	148.8	15,700	13,200	64.2	148.4	15,900	13,400	61.6	141.1	13,600	11,400	
130	30	90	58.4	143.0	13,200	11,100	60.1	142.6	13,400	11,200	57.2	134.1	11,600	9,700	
130	30	100	54.1	136.2	11,300	9,400	55.8	135.8	11,400	9,500	52.5	125.9	10,000	8,300	
130	30	110	49.5	128.2	9,700	8,000	51.1	127.7	9,900	8,200	47.4	116.1	8,600	7,100	
130	30	120	44.6	118.7	8,500	6,900	46.2	118.1	8,600	7,000	41.8	104.3	7,500	6,100	
130	30	130	39.2	107.3	7,400	6,000	40.7	106.6	7,500	6,100					
130	30	140	33.0	93.2	6,500	5,200	34.4	92.3	6,600	5,300					
130	30	150	25.6	74.8	5,700	4,500									
130	45	37.76	80.0	179.2	24,000	24,000									
130	45	40	79.3	178.8	24,000	24,000									
130	45	50	75.9	176.4	22,700	22,700	78.4	175.9	18,000	18,000	77.2	171.0	12,400	12,400	
130	45	60	72.5	173.5	19,900	19,900	74.9	172.9	17,200	17,200	73.7	167.3	11,400	11,400	
130	45	70	69.0	169.8	17,600	16,100	71.4	169.3	16,000	16,000	70.0	162.9	10,600	10,600	
130	45	80	65.5	165.5	15,800	13,300	67.9	164.9	14,500	13,600	66.3	157.6	9,900	9,900	
130	45	90	61.8	160.4	13,400	11,200	64.2	159.8	13,600	11,500	62.4	151.5	9,300	9,300	
130	45	100	58.0	154.4	11,400	9,500	60.3	153.8	11,700	9,700	58.3	144.4	8,800	8,500	
130	45	110	54.0	147.4	9,800	8,100	56.3	146.7	10,100	8,300	54.0	136.0	8,100	7,300	
130	45	120	49.8	139.3	8,600	7,000	52.1	138.6	8,700	7,200	49.3	126.2	7,800	6,400	
130	45	130	45.3	129.9	7,500	6,100	47.5	129.0	7,600	6,200	44.2	114.6	6,800	5,500	
130	45	140	40.4	118.7	6,600	5,300	42.6	117.8	6,700	5,400					
130	45	150	35.0	105.3	5,800	4,600	37.0	104.1	5,900	4,700					
130	45	160	28.6	88.4	5,100	4,000									

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138 HSL - with 44" x 54" Tube Boom, with 24" x 32" Tube Jib, with "ABC" Ctwt, with Extended Side Frames

Refer to the Tubular Jib Notes for Open Throat Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)		Jib Length (ft)	Jib Load Radius (ft)	5 Degrees				15 Degrees				25 Degrees			
				Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)
130		60	41.64	80.0	194.0	24,000	19,200								
130		60	50	77.4	192.2	19,200	19,200								
130		60	60	74.3	189.6	17,200	17,200	77.3	188.9	13,500	13,500				
130		60	70	71.2	186.3	15,500	15,500	74.1	185.7	12,100	12,100	76.9	183.4	8,500	8,500
130		60	80	67.9	182.4	13,800	13,400	70.9	181.8	10,900	10,900	73.6	179.4	7,800	7,800
130		60	90	64.6	177.9	12,500	11,200	67.5	177.2	9,900	9,900	70.2	174.8	7,300	7,300
130		60	100	61.2	172.6	11,500	9,600	64.1	171.9	9,100	9,100	66.7	169.3	6,800	6,800
130		60	110	57.7	166.4	9,900	8,200	60.5	165.7	8,400	8,400	63.1	163.0	6,400	6,400
130		60	120	54.0	159.4	8,600	7,100	56.8	158.7	7,900	7,300	59.3	155.8	6,000	6,000
130		60	130	50.1	151.3	7,600	6,100	52.9	150.5	7,800	6,400	55.3	147.4	5,700	5,700
130		60	140	46.0	141.9	6,600	5,400	48.7	141.0	6,800	5,500	51.0	137.6	5,500	5,500
130		60	150	41.5	131.1	5,900	4,700	44.2	130.0	6,000	4,800	46.3	126.2	5,300	4,900
130		60	160	36.6	118.2	5,200	4,100	39.1	116.9	5,300	4,200				
130		60	170	30.9	102.4	4,600	3,600	33.4	100.8	4,700	3,700				
140		30	35.62	80.0	174.6	24,000	24,000								
140		30	40	78.5	173.7	24,000	24,000								
140		30	50	75.1	171.3	24,000	24,000	76.7	171.0	24,000	24,000	78.3	169.7	19,600	19,600
140		30	60	71.5	168.3	23,200	19,700	73.2	167.9	21,900	20,000	74.7	166.6	18,000	18,000
140		30	70	68.0	164.5	18,800	15,800	69.6	164.1	19,100	16,100	71.1	162.8	17,200	16,400
140		30	80	64.3	160.0	15,500	13,000	65.9	159.6	15,800	13,200	67.3	158.2	16,000	13,500
140		30	90	60.5	154.7	13,000	10,900	62.1	154.3	13,200	11,100	63.5	152.8	13,400	11,200
140		30	100	56.5	148.5	11,100	9,200	58.1	148.0	11,300	9,400	59.4	146.4	11,400	9,500
140		30	110	52.4	141.2	9,500	7,800	53.9	140.7	9,700	8,000	55.2	139.0	9,800	8,100
140		30	120	48.0	132.7	8,300	6,700	49.5	132.2	8,400	6,800	50.7	130.3	8,500	6,900
140		30	130	43.2	122.7	7,200	5,800	44.7	122.1	7,300	5,900	45.8	120.0	7,400	6,000
140		30	140	38.0	110.7	6,300	5,000	39.4	110.0	6,400	5,100				
140		30	150	32.0	96.1	5,500	4,300	33.3	95.1	5,600	4,400				
140		30	160	24.8	77.0	4,800	3,700								

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138 HSL - with 44" x 54" Tube Boom, with 24" x 32" Tube Jib, with "ABC" Ctwt, with Extended Side Frames

Refer to the Tubular Jib Notes for Open Throat Tube Boom in this Crane Rating Manual before operating the crane.

			Jib Angle to Boom											
Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	5 Degrees			15 Degrees			25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)
140	45	39.5	80.0	189.1	24,000	24,000								
140	45	40	79.8	189.0	24,000	24,000								
140	45	50	76.7	186.8	22,200	22,200	79.0	186.2	18,400	18,400				
140	45	60	73.5	184.0	19,400	19,400	75.8	183.4	17,200	17,200	77.9	181.5	12,600	12,600
140	45	70	70.2	180.6	17,200	16,000	72.5	180.0	15,800	15,800	74.6	178.0	11,600	11,600
140	45	80	66.9	176.5	15,700	13,100	69.1	175.9	14,400	13,500	71.2	173.9	10,800	10,800
140	45	90	63.5	171.7	13,200	11,000	65.7	171.1	13,500	11,300	67.7	169.0	10,100	10,100
140	45	100	59.9	166.1	11,200	9,300	62.1	165.5	11,500	9,600	64.1	163.3	9,500	9,500
140	45	110	56.3	159.7	9,700	7,900	58.4	159.1	9,900	8,200	60.3	156.7	9,000	8,400
140	45	120	52.4	152.3	8,400	6,800	54.6	151.6	8,600	7,000	56.4	149.1	8,700	7,200
140	45	130	48.4	143.8	7,300	5,900	50.5	143.0	7,500	6,100	52.2	140.3	7,600	6,200
140	45	140	44.0	133.9	6,400	5,100	46.1	133.0	6,500	5,200	47.7	130.0	6,600	5,300
140	45	150	39.3	122.2	5,600	4,400	41.3	121.2	5,700	4,500	42.8	117.9	5,800	4,600
140	45	160	34.0	108.3	4,900	3,800	35.9	107.0	5,000	3,900				
140	45	170	27.7	90.8	4,300	3,300								
140	60	43.38	80.0	203.8	19,000	19,000								
140	60	50	78.1	202.5	19,000	19,000								
140	60	60	75.1	200.0	17,200	17,200	78.0	199.3	13,900	13,900	77.6	193.9	8,600	8,600
140	60	70	72.1	196.9	15,200	15,200	75.0	196.2	12,400	12,400	74.5	190.2	8,000	8,000
140	60	80	69.1	193.2	13,600	13,200	71.9	192.6	11,200	11,200	71.3	185.8	7,400	7,400
140	60	90	66.0	188.9	12,300	11,100	68.8	188.3	10,300	10,300	68.1	180.7	6,900	6,900
140	60	100	62.8	184.0	11,300	9,400	65.5	183.3	9,400	8,300	64.7	174.9	6,500	6,500
140	60	110	59.5	178.3	9,700	8,000	62.2	177.6	8,700	7,100	61.2	168.1	6,200	6,200
140	60	120	56.1	171.7	8,400	6,900	58.8	171.0	8,700	7,600	57.5	160.5	5,900	5,700
140	60	130	52.5	164.3	7,400	6,000	55.1	163.5	7,600	6,200	53.6	151.6	5,600	5,500
140	60	140	48.7	155.8	6,400	5,200	51.3	154.9	6,800	5,300	49.4	141.5	5,300	4,800
140	60	150	44.7	146.0	5,700	4,500	47.3	145.0	5,800	4,600	44.9	129.6	5,200	4,100
140	60	160	40.4	134.7	5,000	3,900	42.9	133.5	5,100	4,000				
140	60	170	35.6	121.3	4,400	3,400	38.0	119.9	4,500	3,500				
140	60	180	30.1	105.0	3,800	2,900	32.4	103.2	4,000	3,000				

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138 HSL - with 44" x 54" Tube Boom, with 24" x 32" Tube Jib, with "ABC" Ctwt, with Extended Side Frames											
Refer to the Tubular Jib Notes for Open Throat Tube Boom in this Crane Rating Manual before operating the crane.											
Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom					25 Degrees			
			5 Degrees			15 Degrees		360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)
			Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)					
150	30	37.35	80.0	184.4	24,000						
150	30	40	79.1	183.9	24,000						
150	30	50	75.9	181.7	24,000	24,000	77.5	181.3	23,700	19,900	
150	30	60	72.6	178.8	23,000	19,500	74.2	178.4	21,300	18,400	
150	30	70	69.2	175.3	18,600	15,600	70.8	174.9	18,900	17,000	
150	30	80	65.8	171.1	15,300	12,800	67.3	170.7	15,600	13,100	
150	30	90	62.3	166.1	12,900	10,700	63.8	165.7	13,100	10,900	
150	30	100	58.6	160.4	10,900	9,000	60.1	159.9	11,100	9,200	
150	30	110	54.8	153.7	9,400	7,600	56.2	153.2	9,500	7,800	
150	30	120	50.8	146.0	8,100	6,500	52.2	145.5	8,200	6,700	
150	30	130	46.5	137.0	7,000	5,600	47.9	136.4	7,100	5,700	
150	30	140	41.9	126.5	6,100	4,800	43.3	125.9	6,200	4,900	
150	30	150	36.8	114.1	5,300	4,100	38.1	113.3	5,400	4,200	
150	30	160	31.1	98.8	4,700	3,500	32.3	97.8	4,700	3,600	
150	45	41.24	80.0	198.9	21,600	21,600					
150	45	50	77.4	197.1	21,600	21,600	79.6	196.4	18,800	18,800	
150	45	60	74.4	194.4	19,100	19,100	76.5	193.8	17,200	17,200	
150	45	70	71.3	191.2	17,000	15,800	73.4	190.6	15,600	15,600	
150	45	80	68.1	187.4	15,500	12,900	70.3	186.8	14,200	13,300	
150	45	90	64.9	182.9	13,000	10,800	67.1	182.3	13,300	11,100	
150	45	100	61.6	177.7	11,000	9,100	63.7	177.1	11,300	9,400	
150	45	110	58.2	171.7	9,500	7,800	60.3	171.1	9,700	8,000	
150	45	120	54.7	164.9	8,200	6,600	56.7	164.2	8,400	6,800	
150	45	130	51.0	157.1	7,100	5,700	53.0	156.3	7,300	5,900	
150	45	140	47.0	148.1	6,200	4,900	49.0	147.3	6,300	5,100	
150	45	150	42.8	137.8	5,400	4,200	44.7	136.8	5,500	4,300	
150	45	160	38.2	125.7	4,700	3,600	40.1	124.6	4,800	3,700	
150	45	170	33.0	111.2	3,400	3,100	34.8	109.8	4,200	3,200	
150	45	180	27.0	93.1	2,800	2,700					

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138 HSL - with 44" x 54" Tube Boom, with 24" x 32" Tube Jib, with "ABC" Ctwt, with Extended Side Frames

Refer to the Tubular Jib Notes for Open Throat Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom														
			5 Degrees					15 Degrees					25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)			
150	60	45.12	80.0	213.7	18,600	18,600											
150	60	50	78.6	212.7	18,600	18,600											
150	60	60	75.8	210.3	16,900	16,900	78.6	209.7	14,200							8,700	8,700
150	60	70	73.0	207.4	15,100	15,100	75.7	206.7	12,700	75.7	206.7	12,700	12,700	78.3	204.4	8,100	8,100
150	60	80	70.1	203.9	13,500	13,000	72.8	203.3	11,500	72.8	203.3	11,500	11,500	75.3	200.9	7,600	7,600
150	60	90	67.2	199.9	13,100	10,900	69.9	199.2	10,600	69.9	199.2	10,600	10,600	72.3	196.7	7,100	7,100
150	60	100	64.2	195.2	11,100	9,200	66.8	194.5	9,700	66.8	194.5	9,700	9,500	69.2	192.0	6,700	6,700
150	60	110	61.1	189.9	9,500	7,800	63.7	189.2	9,000	63.7	189.2	9,000	8,100	66.1	186.5	6,300	6,300
150	60	120	57.9	183.8	8,200	6,700	60.5	183.1	8,500	60.5	183.1	8,500	7,000	62.8	180.2	6,000	6,000
150	60	130	54.6	176.9	7,200	5,800	57.1	176.1	7,400	57.1	176.1	7,400	6,000	59.4	173.1	5,700	5,400
150	60	140	51.1	169.0	6,300	5,000	53.6	168.2	6,500	53.6	168.2	6,500	5,200	55.8	165.0	5,100	4,600
150	60	150	47.4	160.1	5,500	4,300	49.9	159.2	5,700	49.9	159.2	5,700	4,500	52.0	155.8	5,100	4,000
150	60	160	43.5	149.9	4,800	3,700	46.0	148.9	4,900	46.0	148.9	4,900	3,800	47.9	145.2	5,100	3,400
150	60	170	39.3	138.2	4,200	3,200	41.7	137.0	4,300	41.7	137.0	4,300	3,300	43.5	132.8	4,400	
150	60	180	34.7	124.3	2,900	2,700	36.9	122.9	3,100	36.9	122.9	3,100	2,800				
150	60	190	29.3	107.6	2,500	2,300											
160	30	39.09	80.0	194.3	24,000	24,000											
160	30	40	79.7	194.1	24,000	24,000											
160	30	50	76.7	192.0	24,000	24,000	78.1	191.6	22,600	78.1	191.6	22,600	21,300	79.5	190.3	18,800	18,800
160	30	60	73.5	189.3	22,800	19,300	75.0	188.9	20,400	75.0	188.9	20,400	19,700	76.4	187.6	18,200	18,200
160	30	70	70.4	185.9	18,500	15,400	71.8	185.6	18,800	71.8	185.6	18,800	15,800	73.2	184.2	16,900	16,100
160	30	80	67.2	182.0	15,200	12,600	68.6	181.6	15,400	68.6	181.6	15,400	12,900	69.9	180.2	13,100	10,900
160	30	90	63.8	177.4	12,700	10,500	65.3	177.0	12,900	65.3	177.0	12,900	10,700	66.5	175.5	13,100	10,900
160	30	100	60.4	172.0	10,700	8,800	61.8	171.6	10,900	61.8	171.6	10,900	9,000	63.1	170.0	11,100	9,200
160	30	110	56.9	165.8	9,200	7,500	58.3	165.4	9,300	58.3	165.4	9,300	7,600	59.5	163.8	9,500	7,800
160	30	120	53.2	158.7	7,900	6,300	54.6	158.3	8,000	54.6	158.3	8,000	6,500	55.7	156.5	8,200	6,600
160	30	130	49.3	150.6	6,800	5,400	50.7	150.1	6,900	50.7	150.1	6,900	5,500	51.8	148.2	7,000	5,600
160	30	140	45.2	141.2	5,900	4,600	46.5	140.6	6,000	46.5	140.6	6,000	4,700	47.5	138.5	6,100	4,800
160	30	150	40.7	130.2	5,100	3,900	42.0	129.5	5,200	42.0	129.5	5,200	4,000	43.0	127.3	5,300	4,100
160	30	160	35.8	117.3	3,600	3,300	37.0	116.4	4,500	37.0	116.4	4,500	3,400				
160	30	170	30.2	101.5	3,000	2,800											

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138 HSL - with 44" x 54" Tube Boom, with 24" x 32" Tube Jib, with "ABC" Ctwt, with Extended Side Frames

Refer to the Tubular Jib Notes for Open Throat Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												
			5 Degrees				15 Degrees				25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	
160	45	42.97	80.0	208.8	19,800	19,800									
160	45	50	78.0	207.3	19,800	19,800									
160	45	60	75.1	204.8	18,500	18,500	77.2	204.2	16,700	16,700	79.2	202.3	13,000	13,000	
160	45	70	72.2	201.8	17,000	15,600	74.3	201.2	15,200	15,200	76.2	199.2	12,000	12,000	
160	45	80	69.3	198.2	15,300	12,800	71.3	197.5	13,900	13,900	73.2	195.5	11,200	11,200	
160	45	90	66.2	193.9	12,800	10,600	68.3	193.3	13,100	13,100	70.1	191.2	10,500	10,500	
160	45	100	63.1	189.0	10,800	8,900	65.1	188.4	11,100	11,100	66.9	186.2	9,900	9,500	
160	45	110	59.9	183.5	9,300	7,600	61.9	182.8	9,500	9,500	63.7	180.5	9,800	8,000	
160	45	120	56.6	177.1	8,000	6,400	58.6	176.4	8,200	8,200	60.3	174.0	8,400	6,900	
160	45	130	53.2	169.9	6,900	5,500	55.1	169.2	7,100	7,100	56.8	166.6	7,300	5,900	
160	45	140	49.6	161.7	6,000	4,700	51.5	160.9	6,200	6,200	53.1	158.2	6,300	5,000	
160	45	150	45.8	152.3	5,200	4,000	47.6	151.4	5,400	5,400	49.1	148.5	5,500	4,300	
160	45	160	41.7	141.5	4,500	3,400	43.5	140.5	4,700	4,700	44.9	137.3	4,800	3,600	
160	45	170	37.2	129.0	3,100	2,900	38.9	127.8	3,300	3,300					
160	45	180	32.2	114.0	2,600	2,500									
160	45	190	26.3	95.4	2,200	2,000									
160															
160	60	46.85	80.0	223.5	16,900	16,900									
160	60	50	79.2	222.9	16,900	16,900									
160	60	60	76.5	220.7	16,400	16,400	79.1	220.0	13,900	13,900	78.8	214.8	8,900	8,900	
160	60	70	73.8	217.9	14,700	14,700	76.4	217.2	13,000	13,000	76.0	211.5	8,200	8,200	
160	60	80	71.1	214.6	13,300	12,800	73.6	213.9	11,800	11,800	73.2	207.6	7,700	7,700	
160	60	90	68.3	210.8	12,900	10,700	70.8	210.1	10,800	10,800	70.3	203.1	7,200	7,200	
160	60	100	65.4	206.3	10,900	9,000	68.0	205.7	10,000	9,400	67.3	197.9	6,800	6,800	
160	60	110	62.5	201.3	9,300	7,600	65.0	200.6	9,700	8,000	64.2	192.0	6,500	6,400	
160	60	120	59.5	195.6	8,100	6,500	62.0	194.9	8,400	6,800	61.0	185.4	6,100	6,100	
160	60	130	56.4	189.1	7,000	5,600	58.9	188.4	7,200	5,800	57.7	177.9	5,800	5,200	
160	60	140	53.2	181.9	6,100	4,800	55.6	181.0	6,300	5,000	54.2	169.4	5,700	4,500	
160	60	150	49.8	173.7	5,300	4,100	52.2	172.8	5,500	4,300	50.6	159.8	4,900	3,800	
160	60	160	46.3	164.4	4,600	3,500	48.6	163.4	4,800	3,700	46.6	148.8	4,300	3,200	
160	60	170	42.5	153.8	3,300	3,000	44.8	152.7	4,100	3,100					
160	60	180	38.4	141.6	2,700	2,500	40.6	140.3	2,900	2,600					
160	60	190	33.8	127.3	2,300	2,100	36.0	125.7	2,400	2,200					
160	60	200	28.6	110.0	1,900	1,700									

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138 HSL - with 44" x 54" Tube Boom, with 24" x 32" Tube Jib, with "ABC" Ctwt, with Extended Side Frames

Refer to the Tubular Jib Notes for Open Throat Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom											
			5 Degrees				15 Degrees				25 Degrees			
			Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)
170	30	40.83	80.0	204.1	20,300	20,300								
170	30	50	77.3	202.2	20,300	20,300	78.8	201.9	19,000	19,000				
170	30	60	74.4	199.7	19,500	19,100	75.8	199.3	18,300	18,300	77.1	198.0	16,300	16,300
170	30	70	71.4	196.5	16,900	15,300	72.8	196.2	17,600	15,600	74.1	194.8	15,700	15,700
170	30	80	68.4	192.8	15,000	12,400	69.7	192.4	15,300	12,700	71.0	191.0	15,200	13,000
170	30	90	65.2	188.5	12,500	10,300	66.6	188.1	12,700	10,500	67.8	186.6	13,000	10,800
170	30	100	62.0	183.4	10,500	8,600	63.4	183.0	10,700	8,800	64.6	181.5	10,900	9,000
170	30	110	58.7	177.7	9,000	7,300	60.1	177.3	9,200	7,400	61.2	175.7	9,300	7,600
170	30	120	55.3	171.1	7,700	6,100	56.6	170.7	7,800	6,300	57.8	169.0	8,000	6,400
170	30	130	51.8	163.6	6,600	5,200	53.0	163.1	6,800	5,300	54.1	161.3	6,900	5,500
170	30	140	48.0	155.0	5,700	4,400	49.3	154.5	5,800	4,500	50.3	152.5	5,900	4,600
170	30	150	44.0	145.2	4,900	3,700	45.2	144.6	5,000	3,800	46.2	142.5	5,100	3,900
170	30	160	39.6	133.8	3,400	3,100	40.8	133.1	3,500	3,200				
170	30	170	34.9	120.4	2,800	2,600	36.0	119.5	2,900	2,700				
170	30	180	29.4	104.1	2,300	2,200								
170	45	44.71	80.0	218.6	17,700	17,700								
170	45	50	78.6	217.6	17,700	17,700								
170	45	60	75.8	215.2	17,100	17,100	77.8	214.5	15,400	15,400	79.7	212.6	12,800	12,800
170	45	70	73.1	212.3	16,300	15,400	75.0	211.7	14,600	14,600	76.9	209.7	12,200	12,200
170	45	80	70.3	208.9	15,100	12,600	72.2	208.2	13,400	13,000	74.0	206.2	11,400	11,400
170	45	90	67.4	204.9	12,600	10,400	69.3	204.2	13,000	10,800	71.1	202.1	10,700	10,700
170	45	100	64.5	200.3	10,700	8,700	66.4	199.6	11,000	9,000	68.1	197.4	10,100	9,300
170	45	110	61.5	195.0	9,100	7,400	63.4	194.4	9,400	7,600	65.1	192.1	9,600	7,900
170	45	120	58.4	189.1	7,800	6,200	60.3	188.4	8,000	6,500	61.9	186.0	8,200	6,700
170	45	130	55.2	182.3	6,700	5,300	57.0	181.6	6,900	5,500	58.6	179.1	7,100	5,700
170	45	140	51.8	174.7	5,800	4,500	53.7	174.0	6,000	4,700	55.2	171.4	6,100	4,800
170	45	150	48.3	166.1	5,000	3,800	50.1	165.3	5,200	4,000	51.6	162.5	5,300	4,100
170	45	160	44.6	156.4	3,500	3,200	46.4	155.5	4,500	3,400	47.8	152.4	4,600	3,500
170	45	170	40.6	145.2	2,900	2,700	42.3	144.2	3,100	2,800				
170	45	180	36.3	132.2	2,400	2,200	37.9	131.0	2,500	2,300				
170	45	190	31.4	116.8	2,000	1,800								

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138 HSL - with 44" x 54" Tube Boom, with 24" x 32" Tube Jib, with "ABC" Ctwt, with Extended Side Frames														
Refer to the Tubular Jib Notes for Open Throat Tube Boom in this Crane Rating Manual before operating the crane.														
Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom						25 Degrees					
			5 Degrees			15 Degrees			Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)		
			Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)					Over End Blocked Jib Capacity (lbs)	
170	60	48.59	80.0	233.4	15,300	15,300								
170	60	50	79.6	233.1	15,300	15,300								
170	60	60	77.1	230.9	14,800	14,800	79.6	230.2	12,700	12,300	12,300	9,000	9,000	9,000
170	60	70	74.5	228.3	14,200	14,200	77.0	227.6	12,300	11,500	11,500	8,400	8,400	8,400
170	60	80	71.9	225.2	12,900	12,700	74.4	224.5	11,500	10,600	10,600	7,800	7,800	7,800
170	60	90	69.3	221.5	11,800	10,500	71.7	220.8	10,600	9,200	9,200	7,400	7,400	7,400
170	60	100	66.6	217.3	10,700	8,800	69.0	216.6	9,800	8,000	8,000	6,900	6,900	6,900
170	60	110	63.8	212.6	9,200	7,400	66.2	211.9	9,500	7,800	7,800	6,600	6,600	6,600
170	60	120	61.0	207.2	7,900	6,300	63.4	206.5	8,200	6,600	6,600	5,900	5,900	5,900
170	60	130	58.1	201.1	6,800	5,400	60.4	200.4	7,100	5,600	5,600	5,000	5,000	5,000
170	60	140	55.1	194.3	5,900	4,600	57.4	193.5	6,100	4,800	4,800	4,300	4,300	4,300
170	60	150	51.9	186.7	5,100	3,900	54.2	185.8	5,300	4,100	4,100	3,600	3,600	3,600
170	60	160	48.6	178.1	4,400	3,300	50.9	177.2	4,600	3,500	3,500	3,100	3,100	3,100
170	60	170	45.2	168.5	3,000	2,800	47.4	167.4	3,200	2,900	2,900	2,600	2,600	2,600
170	60	180	41.5	157.5	2,500	2,300	43.7	156.3	2,700	2,400	2,400	2,100	2,100	2,100
170	60	190	37.5	144.9	2,100	1,900	39.6	143.6	2,200	2,000	2,000	1,700	1,700	1,700
170	60	200	33.0	130.2	1,600	1,500	35.1	128.5	1,800	1,600	1,600	1,400	1,400	1,400
180	30	42.56	80.0	214.0	18,100	18,100								
180	30	50	77.9	212.5	18,100	18,100	79.3	212.1	17,100	16,300	16,300	14,600	14,600	14,600
180	30	60	75.1	210.0	17,400	17,400	76.5	209.7	16,300	15,500	15,500	14,000	14,000	14,000
180	30	70	72.3	207.1	16,500	15,100	73.6	206.7	15,500	14,600	14,600	13,400	13,400	13,400
180	30	80	69.4	203.6	14,800	12,300	70.8	203.2	15,000	12,600	12,600	12,800	12,800	12,800
180	30	90	66.5	199.5	12,300	10,100	67.8	199.1	12,600	10,400	10,400	10,600	10,600	10,600
180	30	100	63.5	194.7	10,300	8,400	64.8	194.3	10,600	8,600	8,600	8,800	8,800	8,800
180	30	110	60.4	189.3	8,800	7,100	61.7	188.9	9,000	7,300	7,300	7,400	7,400	7,400
180	30	120	57.2	183.2	7,500	5,900	58.5	182.7	7,700	6,100	6,100	7,800	7,800	7,800
180	30	130	53.9	176.2	6,400	5,000	55.1	175.7	6,600	5,200	5,200	6,700	6,700	6,700
180	30	140	50.4	168.3	5,500	4,200	51.6	167.8	5,600	4,300	4,300	5,700	5,700	5,700
180	30	150	46.8	159.4	3,800	3,500	48.0	158.8	4,800	3,600	3,600	4,900	4,900	4,900
180	30	160	42.9	149.1	3,200	2,900	44.0	148.5	3,300	3,000	3,000	4,000	4,000	4,000
180	30	170	38.6	137.3	2,600	2,400	39.8	136.6	2,700	2,500	2,500	3,400	3,400	3,400
180	30	180	34.0	123.5	2,100	2,000	35.1	122.5	2,100	2,000	2,000			

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138 HSL - with 44" x 54" Tube Boom, with 24" x 32" Tube Jib, with "ABC" Ctwt, with Extended Side Frames

Refer to the Tubular Jib Notes for Open Throat Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom														
			5 Degrees				15 Degrees				25 Degrees						
			Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Blocked Jib Capacity (lbs)	360° Jib Capacity (lbs)			
180	45	46.44	80.0	228.5	15,900	15,900											
180	45	50	79.1	227.8	15,900	15,900											
180	45	60	76.5	225.5	15,300	15,300	78.4	224.9			13,800	13,800					
180	45	70	73.9	222.7	14,600	14,600	75.7	222.1			13,300	13,300	77.5	220.1	11,300	11,300	
180	45	80	71.2	219.5	14,000	12,400	73.1	218.9			12,700	12,700	74.8	216.8	10,800	10,800	
180	45	90	68.5	215.7	12,400	10,200	70.3	215.1			11,900	10,600	72.0	212.9	10,500	10,500	
180	45	100	65.7	211.3	10,500	8,500	67.5	210.7			10,800	8,900	69.2	208.5	10,100	9,200	
180	45	110	62.9	206.4	8,900	7,200	64.7	205.7			9,200	7,500	66.3	203.5	9,500	7,700	
180	45	120	60.0	200.8	7,600	6,000	61.8	200.1			7,900	6,300	63.3	197.8	8,100	6,500	
180	45	130	56.9	194.5	6,500	5,100	58.7	193.8			6,700	5,300	60.3	191.3	6,900	5,500	
180	45	140	53.8	187.4	5,600	4,300	55.6	186.7			5,800	4,500	57.1	184.1	6,000	4,700	
180	45	150	50.6	179.5	4,800	3,600	52.3	178.7			5,000	3,800	53.8	175.9	5,100	3,900	
180	45	160	47.2	170.5	3,300	3,000	48.9	169.6			3,500	3,200	50.3	166.7	4,400	3,300	
180	45	170	43.6	160.3	2,700	2,500	45.2	159.4			2,900	2,600	46.5	156.3	3,000	2,700	
180	45	180	39.7	148.8	2,200	2,000	41.3	147.7			2,300	2,200					
180	45	190	35.4	135.3	1,700	1,600	37.0	134.1			1,900	1,700					
180	60	50.33	80.0	243.2	13,400	13,400											
180	60	60	77.6	241.2	13,400	13,400											
180	60	70	75.2	238.7	12,900	12,900	77.6	238.0			11,200	11,200	79.8	235.6	8,900	8,900	
180	60	80	72.7	235.7	12,300	12,300	75.1	235.0			10,800	10,800	77.3	232.5	8,500	8,500	
180	60	90	70.2	232.2	11,300	10,300	72.5	231.5			10,200	10,200	74.7	229.0	7,900	7,900	
180	60	100	67.6	228.3	10,500	8,600	69.9	227.5			9,400	9,000	72.1	224.9	7,500	7,500	
180	60	110	65.0	223.7	9,000	7,200	67.3	223.0			9,400	7,600	69.4	220.3	7,100	7,100	
180	60	120	62.3	218.6	7,700	6,100	64.6	217.9			8,000	6,400	66.7	215.1	6,700	6,700	
180	60	130	59.6	212.9	6,600	5,200	61.8	212.1			6,900	5,500	63.8	209.3	6,400	5,700	
180	60	140	56.7	206.5	5,700	4,400	59.0	205.7			5,900	4,600	60.9	202.7	6,200	4,900	
180	60	150	53.8	199.4	4,900	3,700	56.0	198.5			5,100	3,900	57.9	195.4	5,300	4,100	
180	60	160	50.7	191.4	3,400	3,100	52.9	190.5			4,400	3,300	54.8	187.2	4,600	3,500	
180	60	170	47.5	182.5	2,800	2,600	49.7	181.5			3,000	2,700	51.5	177.9	3,200	2,900	
180	60	180	44.2	172.5	2,300	2,100	46.3	171.4			2,500	2,200	48.0	167.5	2,700	2,400	
180	60	190	40.5	161.2	1,800	1,700	42.6	159.9			2,000	1,800					
180	60	200					38.6	146.7			1,600						