
CRANE RATING MANUAL

218 HSL

- 50" X 60" TUBE BOOM
- 20' OPEN THROAT PEAK SECTION
- 1.25" DIAMETER PENDANTS
- WITH LIVE MAST
- 14' 2" GAUGE AND
20' 6" OVERALL LENGTH
- 24" X 32" TUBE JIB

For Replacement, Order Part Number: N6P0046
(013020)



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218 HSL **SN: N6K5-4897** 1 of 52 N6P0047

Table Of Contents

Specifications

Operating Instructions	3- 4
Wire Rope Capacity Chart	5
Working Areas	6
General Dimensions	7
Liftoff Capabilities	8
Wind Restrictions Guide	9
Crane Assembly Component Weights	10

Self Assembly Cylinder Capacities

Self Assembly Cylinder Lifting Capacities	11
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Duty Cycle Capacities

Duty Cycle Capacity Notes For Tube Boom	13
Duty Cycle Capacities For Tube Boom	14- 16

List Capacities

List Capacity Notes For Tube Boom	17
List Capacities For Open Throat Tube Boom	18- 24

Main Boom Capacities

Working Range Diagram (40' - 230' Tube Boom)	25
Capacity Deductions For Lifting Off Main Boom Hook With Jib Installed	26
Capacity Deductions For Lifting Off Main Boom Hook With Auxiliary Tip Extension Or Pile Driver Lead Adapter Installed	26
Capacity Deductions For Lifting Loads With Luffing Jib Bridle Guide Rails Installed	26
Maximum Allowable Capacities For Auxiliary Tip Extension	27
Maximum Allowable Capacities For Pile Driver Lead Adapter	28
Boom Capacities (40' - 230' Tube Boom)	29- 48

Jib Capacities

Jib Notes For Tube Boom	49- 50
Working Range Diagram (40' - 200' Tube Boom With 30' - 75' Jib)	51
Jib Capacities (N6P0008)	



WARNING

READ AND UNDERSTAND THE CRANE OPERATOR'S AND SAFETY MANUALS AND THE FOLLOWING INSTRUCTIONS AND RATED LIFTING CAPACITIES BEFORE OPERATING THE CRANE. OPERATION WHICH DOES NOT FOLLOW THESE INSTRUCTIONS MAY RESULT IN AN ACCIDENT.

Operating Instructions

General:

1. Rated lifting capacities in pounds as shown on lift charts pertain to this crane as originally manufactured and normally equipped by Link-Belt Cranes. Modifications to the crane or use of optional equipment other than that specified can result in a reduction of capacity.
2. Construction equipment can be dangerous if improperly operated or maintained. Operation and maintenance of this crane must be in compliance with the information in the Operator's, Parts, and Safety Manuals supplied with this crane. If these manuals are missing, order replacements through a Link-Belt Distributor.
3. The operator and other personnel associated with this crane shall read and fully understand the latest applicable American National Standards Institute (ANSI) and American Society of Mechanical Engineers (ASME) safety standards for cranes.
4. All capacities listed in this Crane Rating Manual are in compliance with ANSI/ASME B30.5 at date of manufacture.
2. The crane capacities in the shaded areas are based on factors other than those that would cause a tipping condition.
3. For recommended reeving, parts of line, wire rope type, and wire rope inspection, see Wire Rope Capacity Chart, Operator's Manual, and Parts Manual. Rated lifting capacities are based on correct reeving. A deduction must be made for excessive reeving. Any reeving over minimum required (see Wire Rope Capacity Chart) is considered excessive and must be accounted for when making lifts. Use Working Range Diagram to estimate the extra length of wire rope. See Wire Rope Capacity Chart for the weight to deduct for the extra wire rope before attempting to lift a load.
4. Rated lifting capacities in this Crane Rating Manual are based on freely suspended loads and make no allowances for such factors as the effect of ground conditions and operating speeds. The operator shall therefore reduce load ratings in order to take these conditions into account.

Lift Crane Operation:

1. Capacities shown are in pounds and are not more than 75% of the tipping loads with the crane standing level on firm supporting surface. A deduction must be made from these capacities for weight of hook block, hook ball, sling, grapple, etc. When using main hook while jib is attached, reduce capacities by values shown on Capacity Deductions For Lifting Off Main Boom Hook With Jib Installed. When using main hook while auxiliary tip extension or pile driver lead adapter is installed, reduce capacities by values shown on Capacity Deductions For Lifting Off Main Boom Hook With Auxiliary Tip Extension or Pile Driver Lead Adapter Installed. If the luffing jib bridle guide rail assembly remains installed, reduce capacities by the value shown on Capacity Deductions For Lifting Loads With Luffing Jib Bridle Guide Rails Installed. See Operator's Manual for all limitations when raising or lowering attachment.
5. Rated lifting capacities do not account for the effects of wind on a suspended load or boom. Lifting capacities should be considered acceptable for wind speeds up to 20 mph and appropriately reduced for wind speeds greater than 20 mph. (See Wind Restrictions Guide.)
6. The least stable rated condition is over the side.
7. Do not operate at radii and boom lengths where this Crane Rating Manual lists no capacity. Do not use longer booms or jibs than those listed in this Crane Rating Manual. Any of the above can cause a tipping condition or boom and jib failure.
8. These capacities apply only to the crane as originally manufactured and normally equipped by Link-Belt Cranes.

For Over End Blocked Capacities Only:

1. These capacities can be lifted over either end with the crane standing level on a firm supporting surface with adequate blocking placed under the side frame sprockets/idlers, to prevent rocking. The ramps supplied with the crane are considered to be adequate blocking.
2. Do not travel with "Over End Blocked" capacity loads.

Traveling With A Load:

1. All 360° Rotation Capacities (except duty cycle and list capacities) listed in this Crane Rating Manual are pick and carry capacities.
2. The boom must be pointing straight over one end of the lower. If the load was lifted over the side, swing the load over the end and/or if the load was lifted at a long radius and the load is at or near capacity for that radius, boom up to obtain a greater lifting capacity before beginning travel.
3. Engage the travel swing lock and apply the swing park brake.
4. Travel slowly and cautiously on a firm and level supporting surface.

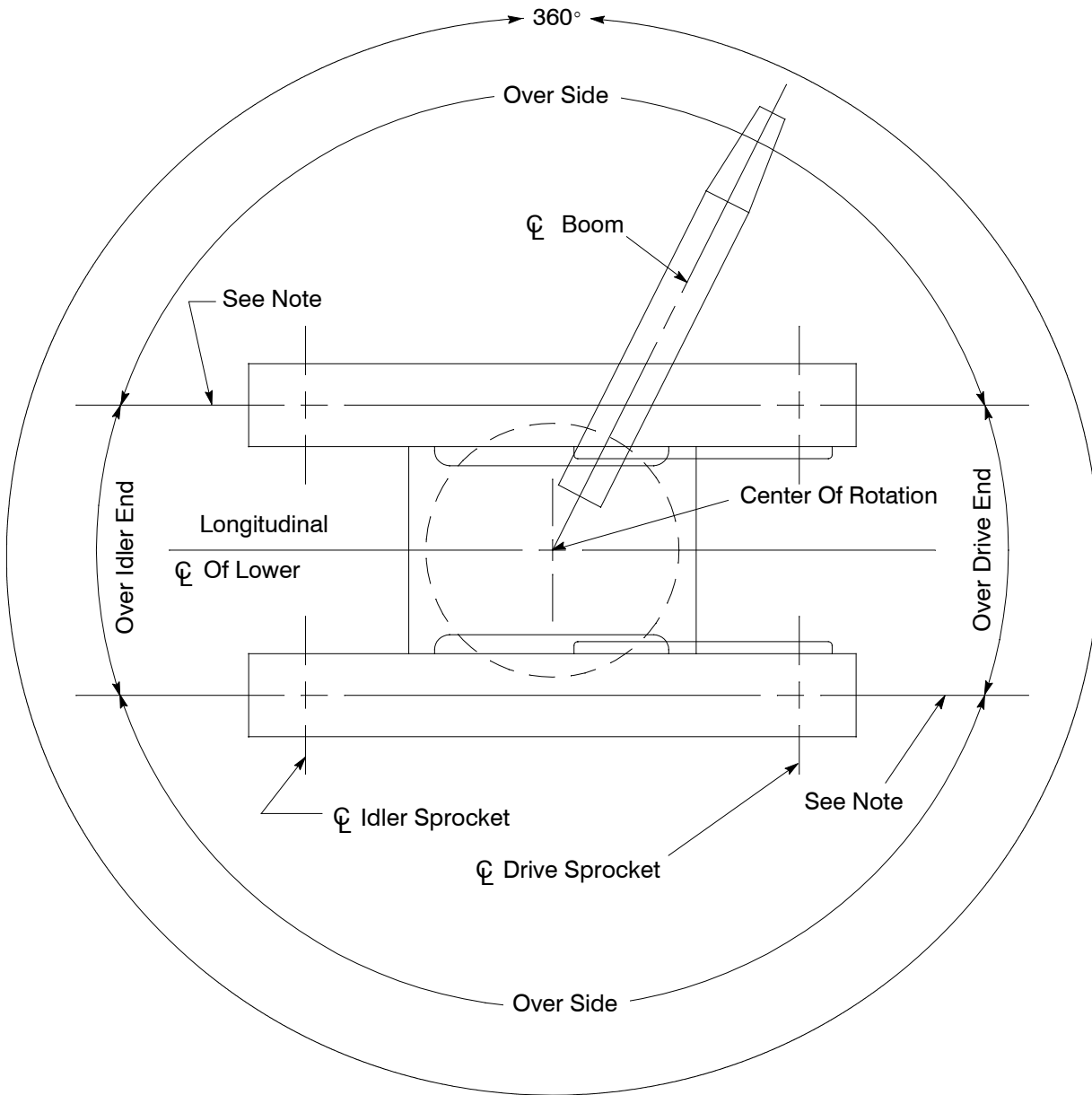
Definitions:

1. Load Radius: Horizontal distance from a projection of the centerline of rotation to the supporting surface, before loading, to the center of the vertical hoist line or tackle with load applied.
2. Boom Angle: The angle between the boom base section and horizontal with freely suspended load at the rated radius.
3. Working Area: Area measured in a circular arc about the centerline of rotation as shown on the Working Areas Diagram.
4. Freely Suspended Load: Load hanging free with no direct external force applied except by the hoist line.
5. Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.

Wire Rope Capacity Chart

Parts of Line	26mm (1.02")						3/4"
	Type "CC"	Type "KC"	Type "RB"	Type "YB"	Type "ZB"	Type "DB"	Type "DB"
1	32,200	29,900	23,800	29,600	29,200	30,900	16,800
2	64,400	59,800	47,600	59,200	58,400	61,800	33,600
3	96,600	89,700	71,400	88,800	87,600	92,700	50,400
4	128,800	119,600	95,200	118,400	116,800	123,600	67,200
5	161,000	149,500	119,000	148,000	146,000	154,500	84,000
6	193,200	179,400	142,800	177,600	175,200	185,400	100,800
7	225,400	209,300	166,600	207,200	204,400	216,300	117,600
8	257,600	239,200	190,400	236,800	233,600	247,200	134,400
Wire Rope Wt./Length [lb/ft]	2.13	2.20	2.30	2.28	2.13	1.90	1.04
Type	Description						
CC	36 X 7 Non-Rotating, E.E.I.P.S., Right Regular Lay, Compacted						
KC	37 X 7, Category 1, E.E.I.P.S., Right Lang Lay, Galvanized						
RB	18 X 19 Category 2, E.E.I.P.S., Preformed, Right Regular Lay, Swaged - For 3/4" Diameter Rope & Up						
YB	34 X 7 Category 1, E.E.I.P.S., Right Lang Lay						
ZB	34 X 7 Non-Rotating, E.I.P.S., Right Regular Lay or Right Lang Lay						
DB	6 X 26 (6 X 19 Class), Warrington Seale, E.I.P.S., Preformed, Right Regular Lay, I.W.R.C.						
Notes:							
<ol style="list-style-type: none"> Capacities shown are in pounds and working loads must not exceed the ratings on the capacity charts in this Crane Rating Manual. Study Operator's Manual for wire rope inspection procedures and single part of line applications. Always refer to the Parts Manual when ordering wire rope. 							

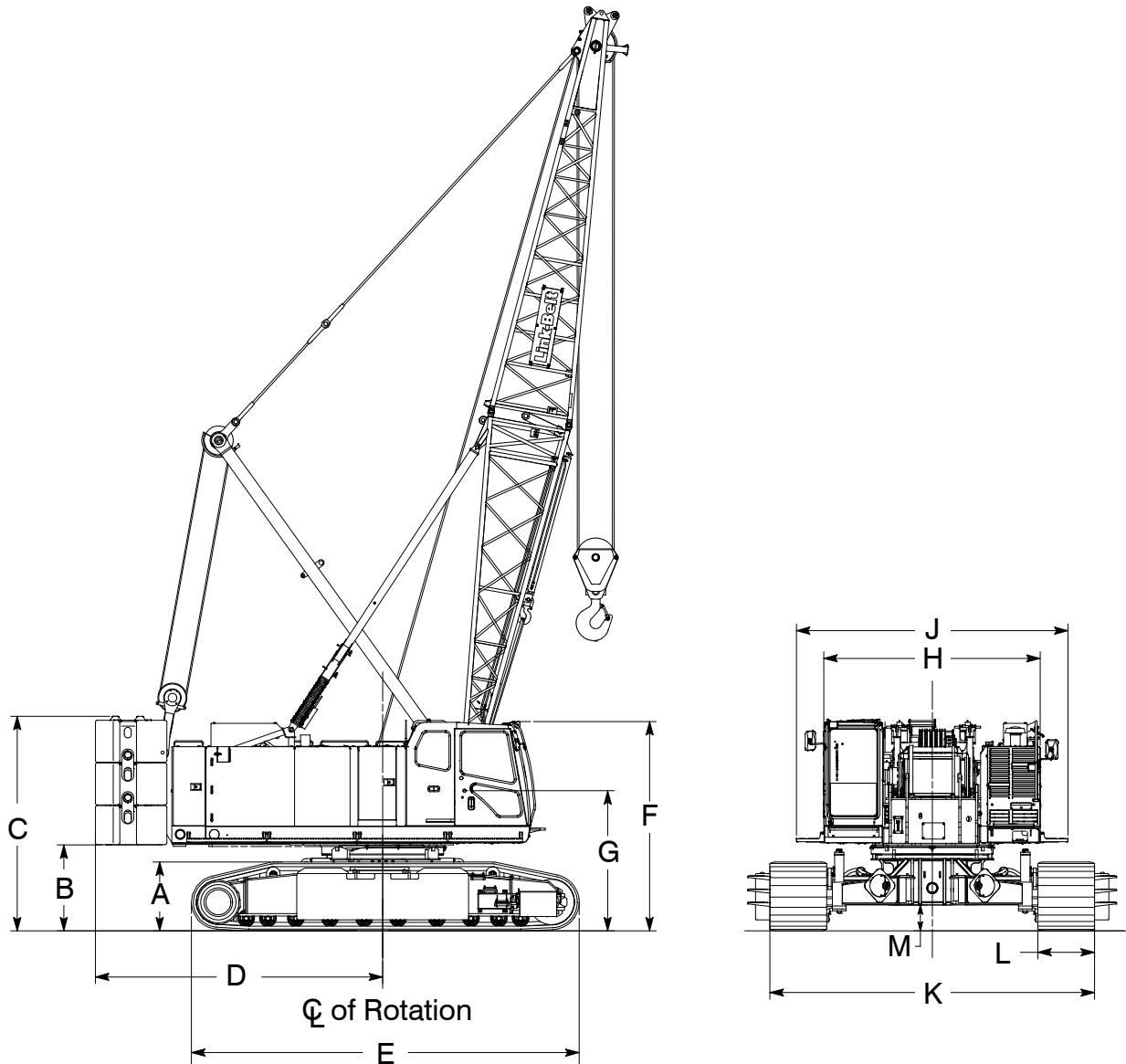
Working Areas



Note: These Lines Determine The Limiting Position Of Any Load For Operation Within Working Areas Indicated.

General Dimensions

	General Description	Dimension
A	Side Frame Height	3'-7.8"
B	Ground Clearance - Counterweight	4'-6.75"
C	Overall Height - Counterweight	11'-4"
D	Counterweight Tailswing	15'-2.5"
E	Side Frame Length	20'-6"
F	Operator's Cab Height	11'-1"
G	Height Of Boom Foot Pin	7'-5"
H	Upper Width	11'-5.5"
J	Width Over Catwalks	14'-4.5"
K	Retracted Width	12'-0"
	Extended Width	17'-2"
L	Track Shoe Width	36.0"
M	Minimum Ground Clearance	16.44"



Liftoff Capabilities

Side Frames	Over End Blocked			Over Side or Over End Not Blocked	
	Counterweight	Boom (ft)	Boom + Jib (ft)	Boom (ft)	Boom + Jib (ft)
Extended	ABC+A	230	200+75	220	200+60 or 190+75
	ABC+0	230	Prohibited	220	Prohibited
	AB+0	210		190	
	A+0	190		170	
	0+0	150		130	
Retracted	A+0	190	Prohibited	150	Prohibited
	0+0	150		100	

- Notes:**
1. For maximum boom and maximum boom + jib combinations only - adequate blocking must be placed under the side frame sprockets/idlers to prevent rocking. The ramps supplied with the crane are considered to be adequate blocking.
 2. Midpoint pendants are required for boom lengths of 210' and longer.
 3. Crane must be on firm and level surface.

Wind Restrictions Guide



DANGER

Do not exceed operating limitations specified. Failure to follow these wind speed restrictions may result in structural failure of the boom. Death, bodily injury, and/or property damage could result. Operate the crane safely within the limits specified below.

Wind Speed Chart

Lifting Capacity Reductions (%) For Crane Operations In Wind Conditions Over 20 mph

Boom Or Boom Plus Jib	Wind Speeds Miles Per Hour (mph)			
	20.1 - 30.0 mph	30.1 - 40.0 mph	40.1 - 45.0 mph	Over 45 mph
Length (Feet)				
Basic to 150'	10%	20%	30%	No Operation
160' to 240'	20%	40%	70%	No Operation

The reduction figures must be used in conjunction with the following notes:

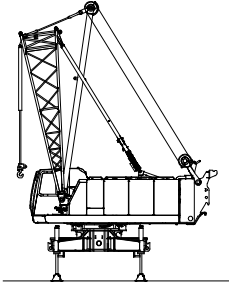
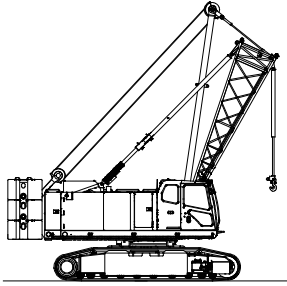
Notes:

1. These capacities consider the force of the wind acting on an average size load (per API spec 2C). Judgment and experience must be used to compensate for the effects of wind acting on the lifted load as the actual load wind sail area is unknown. It is the responsibility of the user to take this into account.
2. Wind speed must include wind gusts.
3. Wind speeds must be continuously monitored at the boom's highest point (boom tip or if jib is installed, jib tip).
4. Caution must be exercised when operating at high boom angles (above 65 degrees) with the wind blowing towards the front of the boom. The boom could be blown into the boom backstops resulting in damage to and/or failure of the boom.
5. All conditions listed as "No Operation" require that crane operation be stopped and the boom lowered to the ground. In the event that this is not possible, see Note 6.
6. If the wind speed is expected to be such that this set of restrictions cannot be complied with or if job site conditions are such that they prevent the lowering of the attachment to the ground, proceed as follows and contact the Link-Belt Service Department for further recommendations:
 - a. Crane should be in a level position.
 - b. Lower the boom to approximately 30 degree boom angle.
 - c. Engage the travel swing lock.
 - d. Position the boom facing into the wind.

Crane Assembly Component Weights

Component	Weight	
	lb	kg
1. 20' Top Section With Head Sheave Machinery	2,309	1 047
2. 20' Top Section With Head Sheave Machinery And Auxiliary Tip Extension		
• With Nylon Sheaves	3,029	1 374
• With Steel Sheaves	3,309	1 501
3. 20' Base Section With Self Assembly Cylinder	2,471	1 121
4. Boom Extensions		
• 10' Boom Extension With Pendants	801	363
• 20' Boom Extension With Pendants	1,309	594
• 30' Boom Extension With Pendants	1,826	828
• 40' Boom Extension With Pendants	2,312	1 049
5. Upper Counterweights		
• Counterweight "A" (Base + Cylinders)	25,360	11 503
• Counterweight - Left Wing (each)	9,410	4 268
• Counterweight - Right Wing (each)	9,440	4 282
6. Side Frames (Each)	19,450	8 823
7. Side Frame Counterweights (Each)	11,100	5 035
8. Jib Including Strut, Head Machinery, And Pendants		
• 30' Jib Assembly	1,450	658
• 15' Extension With Pendants	330	150
9. Luffing Jib Bridle Guide Rail Assembly	35 lb/ft	52kg/m
10. Hook Blocks & Hook Balls		
• 110 Ton 4 Sheave Hook Block (See Hook Block For Actual Weight)	2,975	1 349
• 80 Ton 4 Sheave Hook Block (See Hook Block For Actual Weight)	1,520	689
• 80 Ton 3 Sheave Hook Block for 1.0" Wire Rope (See Hook Block For Actual Weight)	2,085	946
• 90 Ton 3 Sheave Quick Reeve Hook Block (See Hook Block For Actual Weight)	2,400	1 089
• 30 Ton 1 Sheave Hook Block (See Hook Block For Actual Weight)	2,294	1 041
• 25 Ton 2 Sheave Hook Block for 1.0" Wire Rope (See Hook Block For Actual Weight)	1,167	529
• 15 Ton Hook Ball With Swivel (See Hook Ball For Actual Weight)	761	345
• 15 Ton Hook Ball Without Swivel (See Hook Ball For Actual Weight)	748	339

Self Assembly Cylinder Lifting Capacities

Radius (ft)	Boom Angle (deg)	Capacity on Jacks 0 + 0 CTWT (lb)	Capacity on Side Frames See Note 6 (lb)
9.2	82.0	26,000	26,000
10	79.5	26,000	26,000
11	76.3	26,000	26,000
12	72.9	26,000	26,000
13	69.5	26,000	26,000
14	66.0	26,000	26,000
15	62.3	26,000	26,000
16	58.5	26,000	26,000
17	54.4	26,000	26,000
18	50.1	26,000	26,000
19	45.4	24,000	26,000
20	40.1	21,700	26,000
21	33.9	19,700	26,000
22	25.9	17,900	26,000
			

- Notes:**
1. Rated capacities for 360° rotation.
 2. Boom base section only, supported by basic pendants. No extensions or top section permitted.
 3. Do not lower live mast below 3°.
 4. Backstops must be assembled to base section.
 5. The Self Assembly Cylinder Lifting Capacities are for self assembly of counterweights, boom extensions, side frames, and side frame axle extenders only.
 6. This capacity chart is for side frames retracted with 0 + 0 or A + 0 CTWT, or side frames extended with 0 + 0, A + 0, AB + 0, or ABC + A CTWT.
 7. The “A” auxiliary lower counterweights must be installed prior to installing the “ABC” upper counterweights. See Operator’s Manual for self assembly procedures.
 8. The crane capacities in the shaded areas are based on factors other than those that would cause a tipping condition.



WARNING

Do not travel or swing with the “AB” or “ABC” upper counterweights installed when the side frames are retracted. Loss of backward stability may occur causing a tipping condition.

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Duty Cycle Capacity Notes For Tube Boom

1. The capacities included in the following charts are the maximum allowable, and are based on a 218 HSL crawler crane with "A+0" counterweight standing level on firm supporting surface under ideal job conditions.
2. Capacities are for 360° rotation.
3. Capacities are based on 67.5% of minimum tipping loads for clamshell and magnet.
4. Capacities are maximum recommended by PCSA Standard #4. User must make allowances for soft or uneven supporting surfaces, rapid cycle operations, bucket suction, or other unfavorable conditions which may require smaller buckets for most efficient operation.
5. Weight of bucket, plus load must not exceed these capacities.
6. Boom length for duty cycle operation must not exceed 80'.
7. These capacities apply to the crane as originally manufactured and normally equipped by Link-Belt Cranes.
8. The crane capacities in the shaded areas are based on factors other than those that would cause a tipping condition.
9. All other applicable notes listed in this Crane Rating Manual must be followed.

Duty Cycle Capacities - Tube Boom

Main Boom Capacities - 40' Tube Boom		
Load Radius (ft)	Boom Angle (deg)	Extended Side Frames
		"A + 0" Counterweight
		Clam/Magnet Duty Cycle
		(All capacities listed in pounds)
11.3	80.0	16,800
12.0	78.9	16,800
13.0	77.5	16,800
14.0	76.0	16,800
15.0	74.5	16,800
16.0	73.0	16,800
17.0	71.5	16,800
18.0	70.0	16,800
19.0	68.5	16,800
20.0	66.9	16,800
25.0	58.9	16,800
30.0	50.1	16,800
35.0	39.9	16,800
40.0	26.9	16,800
41.9	20.0	16,800

Main Boom Capacities - 50' Tube Boom		
Load Radius (ft)	Boom Angle (deg)	Extended Side Frames
		"A + 0" Counterweight
		Clam/Magnet Duty Cycle
		(All capacities listed in pounds)
13.0	80.0	16,800
14.0	78.8	16,800
15.0	77.7	16,800
16.0	76.5	16,800
17.0	75.3	16,800
18.0	74.1	16,800
19.0	72.9	16,800
20.0	71.7	16,800
25.0	65.6	16,800
30.0	59.1	16,800
35.0	52.2	16,800
40.0	44.5	16,800
50.0	24.0	16,800
51.3	20.0	16,800

Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.

Duty Cycle Capacities - Tube Boom

Main Boom Capacities - 60' Tube Boom		
Load Radius (ft)	Boom Angle (deg)	Extended Side Frames
		"A + 0" Counterweight
		Clam/Magnet Duty Cycle
		(All capacities listed in pounds)
14.8	80.0	16,800
15.0	79.8	16,800
16.0	78.8	16,800
17.0	77.8	16,800
18.0	76.8	16,800
19.0	75.8	16,800
20.0	74.9	16,800
25.0	69.8	16,800
30.0	64.7	16,800
35.0	59.3	16,800
40.0	53.5	16,800
50.0	40.4	16,800
60.0	21.9	14,100
60.7	20.0	13,800

Main Boom Capacities - 70' Tube Boom		
Load Radius (ft)	Boom Angle (deg)	Extended Side Frames
		"A + 0" Counterweight
		Clam/Magnet Duty Cycle
		(All capacities listed in pounds)
16.5	80.0	16,800
17.0	79.6	16,800
18.0	78.7	16,800
19.0	77.9	16,800
20.0	77.1	16,800
25.0	72.8	16,800
30.0	68.5	16,800
35.0	64.0	16,800
40.0	59.4	16,800
50.0	49.3	16,800
60.0	37.3	14,000
70.0	20.3	11,300
70.1	20.0	11,300

Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.

Duty Cycle Capacities - Tube Boom

Main Boom Capacities - 80' Tube Boom		
Load Radius (ft)	Boom Angle (deg)	Extended Side Frames
		"A + 0" Counterweight
		Clam/Magnet Duty Cycle
		(All capacities listed in pounds)
18.2	80.0	16,800
19.0	79.4	16,800
20.0	78.7	16,800
25.0	75.0	16,800
30.0	71.3	16,800
35.0	67.5	16,800
40.0	63.5	16,800
50.0	55.2	16,800
60.0	45.9	13,900
70.0	34.8	11,200
80.0	18.9	9,200

Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.

List Capacity Notes For Tube Boom

1. All list capacities as shown in this Crane Rating Manual are applicable to crane list (not support vessel list).
2. Crane list is an out- of- level condition to the side of the crane as defined by the angle between horizontal and a line drawn through the centerline of the boom foot pins.
3. Crane trim is an out- of- level condition to the front or rear of the crane upper as defined by the angle between horizontal and the crane supporting surface.
4. Crane trim does not affect capacity but does affect load radius. Minimum load radius will be limited by the boom backstops and the upper limit of the boom hoist limit switch.
5. The crane owner and/or the crane user shall have the crane support vessel fully certified and approved to work within the limits listed in this Crane Rating Manual.
6. The crane shall be blocked and/or secured to prevent shifting or sliding.
7. All other applicable notes listed in this Crane Rating Manual must be followed.
8. The crane capacities in the shaded areas are based on factors other than those that would cause a tipping condition.
9. All capacities are for boom lengths 40' to 160' with "ABC+A" counterweight, extended side frames, and 360° rotation.

List Capacities - 40' Tube Boom						
Load Radius (ft)	Boom Angle (deg)	360 Degree Rotation, Extended Side Frames, ABC + A Counterweight				Load Radius (ft)
		1 Degree	2 Degree	3 Degree	5 Degree	
11.28	80.0	190,500	167,400	150,500	124,300	11.28
12	78.9	187,500	165,300	146,800	123,100	12
13	77.5	184,000	162,200	144,500	121,600	13
14	76.0	180,600	159,200	142,200	120,000	14
15	74.5	170,400	157,200	140,400	116,300	15
16	73.0	163,000	154,200	138,200	114,800	16
17	71.5	154,800	152,300	136,500	113,800	17
18	70.0	147,200	146,300	134,800	112,300	18
19	68.5	137,500	137,500	133,100	111,300	19
20	66.9	126,600	126,600	126,600	109,900	20
25	58.9	90,200	90,200	90,200	90,200	25
30	50.1	69,800	69,800	69,800	69,800	30
35	39.9	56,700	56,700	56,700	56,700	35
40	26.9	47,600	47,600	47,600	47,600	40
41.92	20.0	44,800	44,800	44,800	44,800	41.92

List Capacities - 50' Tube Boom						
Load Radius (ft)	Boom Angle (deg)	360 Degree Rotation, Extended Side Frames, ABC + A Counterweight				Load Radius (ft)
		1 Degree	2 Degree	3 Degree	5 Degree	
13.01	80.0	162,700	140,500	125,200	101,400	13.01
14	78.8	159,600	138,300	123,200	100,100	14
15	77.7	156,600	135,700	121,700	98,900	15
16	76.5	153,700	134,000	119,800	97,700	16
17	75.3	151,300	131,500	116,000	96,400	17
18	74.1	146,500	129,800	114,600	95,500	18
19	72.9	137,700	127,800	113,100	94,300	19
20	71.7	126,700	126,200	111,700	93,400	20
25	65.6	90,300	90,300	90,300	88,800	25
30	59.1	69,900	69,900	69,900	69,900	30
35	52.2	56,800	56,800	56,800	56,800	35
40	44.5	47,700	47,700	47,700	47,700	40
50	24.0	35,800	35,800	35,800	35,800	50
51.32	20.0	34,700	34,700	34,700	34,700	51.32

Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.

List Capacities - 60' Tube Boom						
Load Radius (ft)	Boom Angle (deg)	360 Degree Rotation, Extended Side Frames, ABC + A Counterweight				Load Radius (ft)
		1 Degree	2 Degree	3 Degree	5 Degree	
14.75	80.0	141,600	122,500	106,300	84,400	14.75
15	79.8	140,700	121,800	105,900	84,100	15
16	78.8	138,500	120,200	104,600	83,300	16
17	77.8	135,900	116,500	103,300	82,300	17
18	76.8	133,800	114,700	102,000	81,500	18
19	75.8	131,700	113,200	100,700	80,500	19
20	74.9	126,800	111,400	99,500	80,000	20
25	69.8	90,400	90,400	90,400	76,000	25
30	64.7	69,900	69,900	69,900	69,900	30
35	59.3	56,800	56,800	56,800	56,800	35
40	53.5	47,700	47,700	47,700	47,700	40
50	40.4	35,900	35,900	35,900	35,900	50
60	21.9	28,500	28,500	28,500	28,500	60
60.71	20.0	28,000	28,000	28,000	28,000	60.71

List Capacities - 70' Tube Boom						
Load Radius (ft)	Boom Angle (deg)	360 Degree Rotation, Extended Side Frames, ABC + A Counterweight				Load Radius (ft)
		1 Degree	2 Degree	3 Degree	5 Degree	
16.49	80.0	126,300	106,300	93,100	73,400	16.49
17	79.6	125,500	105,600	92,600	73,000	17
18	78.7	123,100	104,300	91,400	72,300	18
19	77.9	121,600	103,000	90,500	71,600	19
20	77.1	119,300	101,400	87,400	71,000	20
25	72.8	90,300	90,300	82,500	67,800	25
30	68.5	69,900	69,900	69,900	64,900	30
35	64.0	56,800	56,800	56,800	56,800	35
40	59.4	47,600	47,600	47,600	47,600	40
50	49.3	35,800	35,800	35,800	35,800	50
60	37.3	28,400	28,400	28,400	28,400	60
70	20.3	23,300	23,300	23,300	23,300	70
70.11	20.0	23,300	23,300	23,300	23,300	70.11

Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.

List Capacities - 80' Tube Boom						
Load Radius (ft)	Boom Angle (deg)	360 Degree Rotation, Extended Side Frames, ABC + A Counterweight				Load Radius (ft)
		1 Degree	2 Degree	3 Degree	5 Degree	
18.22	80.0	110,900	94,300	80,500	64,300	18.22
19	79.4	109,500	93,400	79,800	63,700	19
20	78.7	108,100	92,200	78,800	63,100	20
25	75.0	90,200	85,000	74,900	60,500	25
30	71.3	69,800	69,800	69,800	56,200	30
35	67.5	56,700	56,700	56,700	54,100	35
40	63.5	47,500	47,500	47,500	47,500	40
50	55.2	35,700	35,700	35,700	35,700	50
60	45.9	28,300	28,300	28,300	28,300	60
70	34.8	23,300	23,300	23,300	23,300	70
80	18.9	19,600	19,600	19,600	19,600	80

List Capacities - 90' Tube Boom						
Load Radius (ft)	Boom Angle (deg)	360 Degree Rotation, Extended Side Frames, ABC + A Counterweight				Load Radius (ft)
		1 Degree	2 Degree	3 Degree	5 Degree	
19.96	80.0	100,300	82,800	71,900	55,300	19.96
25	76.7	90,200	78,400	68,500	53,100	25
30	73.4	69,700	69,700	65,500	51,100	30
35	70.1	56,500	56,500	56,500	49,200	35
40	66.7	47,400	47,400	47,400	47,400	40
50	59.5	35,600	35,600	35,600	35,600	50
60	51.8	28,200	28,200	28,200	28,200	60
70	43.1	23,100	23,100	23,100	23,100	70
80	32.8	19,500	19,500	19,500	19,500	80
90	17.8	16,700	16,700	16,700	16,700	90

Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.

List Capacities - 100' Tube Boom						
Load Radius (ft)	Boom Angle (deg)	360 Degree Rotation, Extended Side Frames, ABC + A Counterweight				Load Radius (ft)
		1 Degree	2 Degree	3 Degree	5 Degree	
21.7	80.0	91,300	75,100	64,700	49,400	21.7
25	78.1	85,600	72,500	62,900	48,300	25
30	75.1	69,500	69,100	60,200	46,500	30
35	72.1	56,400	56,400	55,800	45,100	35
40	69.1	47,300	47,300	47,300	43,500	40
50	62.8	35,400	35,400	35,400	35,400	50
60	56.2	28,000	28,000	28,000	28,000	60
70	49.0	23,000	23,000	23,000	23,000	70
80	40.8	19,300	19,300	19,300	19,300	80
90	31.1	16,500	16,500	16,500	16,500	90
100	16.9	14,300	14,300	14,300	14,300	100

List Capacities - 110' Tube Boom						
Load Radius (ft)	Boom Angle (deg)	360 Degree Rotation, Extended Side Frames, ABC + A Counterweight				Load Radius (ft)
		1 Degree	2 Degree	3 Degree	5 Degree	
23.43	80.0	81,500	68,000	56,800	44,600	23.43
25	79.2	79,900	67,200	56,100	44,200	25
30	76.5	69,400	64,000	54,000	42,700	30
35	73.8	56,300	56,300	51,800	41,300	35
40	71.1	47,100	47,100	47,100	40,000	40
50	65.5	35,200	35,200	35,200	35,200	50
60	59.6	27,900	27,900	27,900	27,900	60
70	53.3	22,800	22,800	22,800	22,800	70
80	46.5	19,200	19,200	19,200	19,200	80
90	38.8	16,400	16,400	16,400	16,400	90
100	29.6	14,200	14,200	14,200	14,200	100
110	16.1	12,400	12,400	12,400	12,400	110

Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.

List Capacities - 120' Tube Boom						
Load Radius (ft)	Boom Angle (deg)	360 Degree Rotation, Extended Side Frames, ABC + A Counterweight				Load Radius (ft)
		1 Degree	2 Degree	3 Degree	5 Degree	
25.17	80.0	74,500	62,000	51,700	40,500	25.17
30	77.6	69,300	57,700	49,900	39,200	30
35	75.2	56,100	55,200	48,100	38,000	35
40	72.7	47,000	47,000	46,200	36,800	40
50	67.6	35,100	35,100	35,100	33,900	50
60	62.4	27,700	27,700	27,700	27,700	60
70	56.8	22,700	22,700	22,700	22,600	70
80	50.9	19,000	19,000	19,000	19,000	80
90	44.4	16,200	16,200	16,200	16,200	90
100	37.1	14,000	14,000	14,000	14,000	100
110	28.3	12,300	12,300	12,300	12,300	110
120	15.4	10,800	10,800	10,800	10,800	120

List Capacities - 130' Tube Boom						
Load Radius (ft)	Boom Angle (deg)	360 Degree Rotation, Extended Side Frames, ABC + A Counterweight				Load Radius (ft)
		1 Degree	2 Degree	3 Degree	5 Degree	
26.91	80.0	68,300	55,100	47,300	36,600	26.91
30	78.6	66,400	53,700	46,200	35,900	30
35	76.4	55,900	51,700	44,600	34,900	35
40	74.1	46,800	46,800	43,100	33,800	40
50	69.4	34,900	34,900	34,900	31,300	50
60	64.6	27,500	27,500	27,500	27,200	60
70	59.7	22,500	22,500	22,500	22,500	70
80	54.4	18,800	18,800	18,800	18,800	80
90	48.8	16,000	16,000	16,000	16,000	90
100	42.6	13,800	13,800	13,800	13,800	100
110	35.6	12,100	12,100	12,100	12,100	110
120	27.2	10,600	10,600	10,600	10,600	120
130	14.8	9,400	9,400	9,400	9,400	130

Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.

List Capacities - 140' Tube Boom						
Load Radius (ft)	Boom Angle (deg)	360 Degree Rotation, Extended Side Frames, ABC + A Counterweight				Load Radius (ft)
		1 Degree	2 Degree	3 Degree	5 Degree	
28.64	80.0	62,800	50,600	43,300	32,800	28.64
30	79.4	62,000	50,000	42,900	32,800	30
35	77.3	55,800	48,100	41,500	32,000	35
40	75.2	46,600	46,400	40,100	31,300	40
50	71.0	34,700	34,700	34,700	27,400	50
60	66.6	27,300	27,300	27,300	25,200	60
70	62.0	22,300	22,300	22,300	22,300	70
80	57.3	18,600	18,600	18,600	18,600	80
90	52.3	15,800	15,800	15,800	15,800	90
100	46.9	13,700	13,700	13,700	13,700	100
110	41.0	11,900	11,900	11,900	11,900	110
120	34.3	10,400	10,400	10,400	10,400	120
130	26.2	9,200	9,200	9,200	9,200	130
140	14.3	8,200	8,200	8,200	8,200	140

List Capacities - 150' Tube Boom						
Load Radius (ft)	Boom Angle (deg)	360 Degree Rotation, Extended Side Frames, ABC + A Counterweight				Load Radius (ft)
		1 Degree	2 Degree	3 Degree	5 Degree	
30.38	80.0	55,900	46,500	38,400	26,500	30.38
35	78.2	53,800	44,900	38,400	26,500	35
40	76.2	46,500	43,300	37,300	26,500	40
50	72.3	34,500	34,500	34,000	25,400	50
60	68.2	27,100	27,100	27,100	23,400	60
70	64.0	22,100	22,100	22,100	21,500	70
80	59.7	18,400	18,400	18,400	18,400	80
90	55.2	15,700	15,700	15,700	15,600	90
100	50.4	13,500	13,500	13,500	13,500	100
110	45.2	11,700	11,700	11,700	11,700	110
120	39.5	10,300	10,300	10,300	10,300	120
130	33.1	9,000	9,000	9,000	9,000	130
140	25.2	8,000	8,000	8,000	8,000	140
150	13.8	7,100	7,100	7,100	7,100	150

Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.

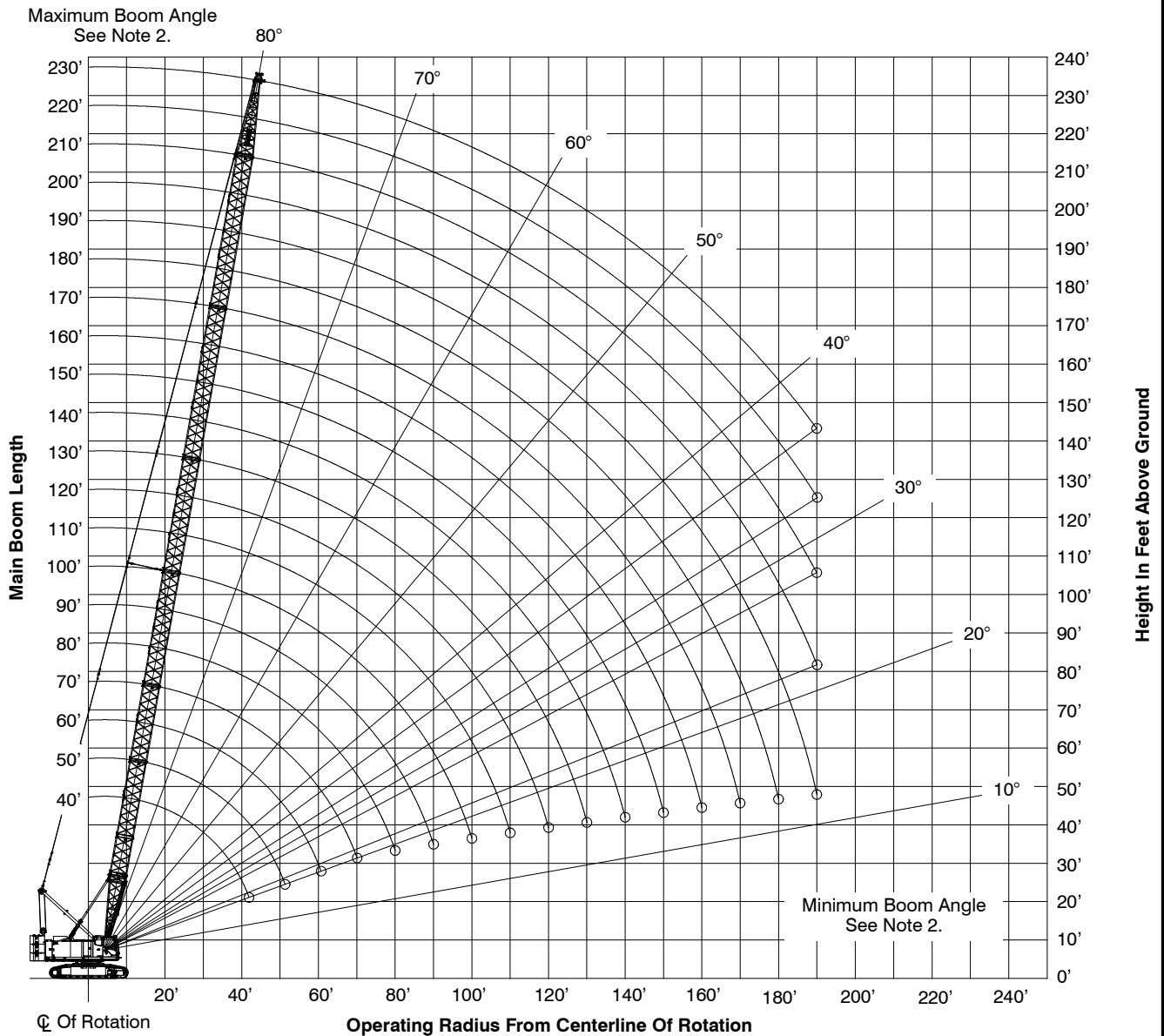
List Capacities - 160' Tube Boom

Load Radius (ft)	Boom Angle (deg)	360 Degree Rotation, Extended Side Frames, ABC + A Counterweight				Load Radius (ft)
		1 Degree	2 Degree	3 Degree	5 Degree	
32.11	80.0	51,500	40,600	33,100	22,400	32.11
35	78.9	50,400	40,600	33,100	22,400	35
40	77.1	46,300	40,600	33,100	22,400	40
50	73.4	34,400	34,400	31,700	22,400	50
60	69.6	27,000	27,000	26,900	21,700	60
70	65.8	21,900	21,900	21,900	19,900	70
80	61.8	18,200	18,200	18,200	18,200	80
90	57.6	15,500	15,500	15,500	15,500	90
100	53.3	13,300	13,300	13,300	13,300	100
110	48.7	11,500	11,500	11,500	11,500	110
120	43.7	10,100	10,100	10,100	10,100	120
130	38.2	8,800	8,800	8,800	8,800	130
140	32.0	7,800	7,800	7,800	7,800	140
150	24.4	6,900	6,900	6,900	6,900	150
160	13.4	6,100	6,100	6,100	6,100	160

Note: Refer To Page 26 For “Capacity Deductions” Caused By Any Attachment On The Boom.

Working Range Diagram

40' To 230' 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 (Tube Boom)

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

Jib Length (ft)	Capacity Deduction (lb)
30	2,100
45	2,800
60	3,500
75	4,400

Capacity Deductions For Lifting Off Main Boom Hook With Auxiliary Tip Extension Or Pile Driver Lead Adapter Installed (Tube Boom)

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

Extension/Adapter	Capacity Deduction (lb)
Auxiliary Tip With Nylon Sheaves	900
Auxiliary Tip With Steel Sheaves	1,150
Pile Driver Lead Adapter	200

Capacity Deductions For Lifting Loads With Luffing Jib Bridle Guide Rails Installed (Tube Boom)

Guide Rails (ft)	Capacity Deduction (lb)
20	700
30	1,050
50	1,750

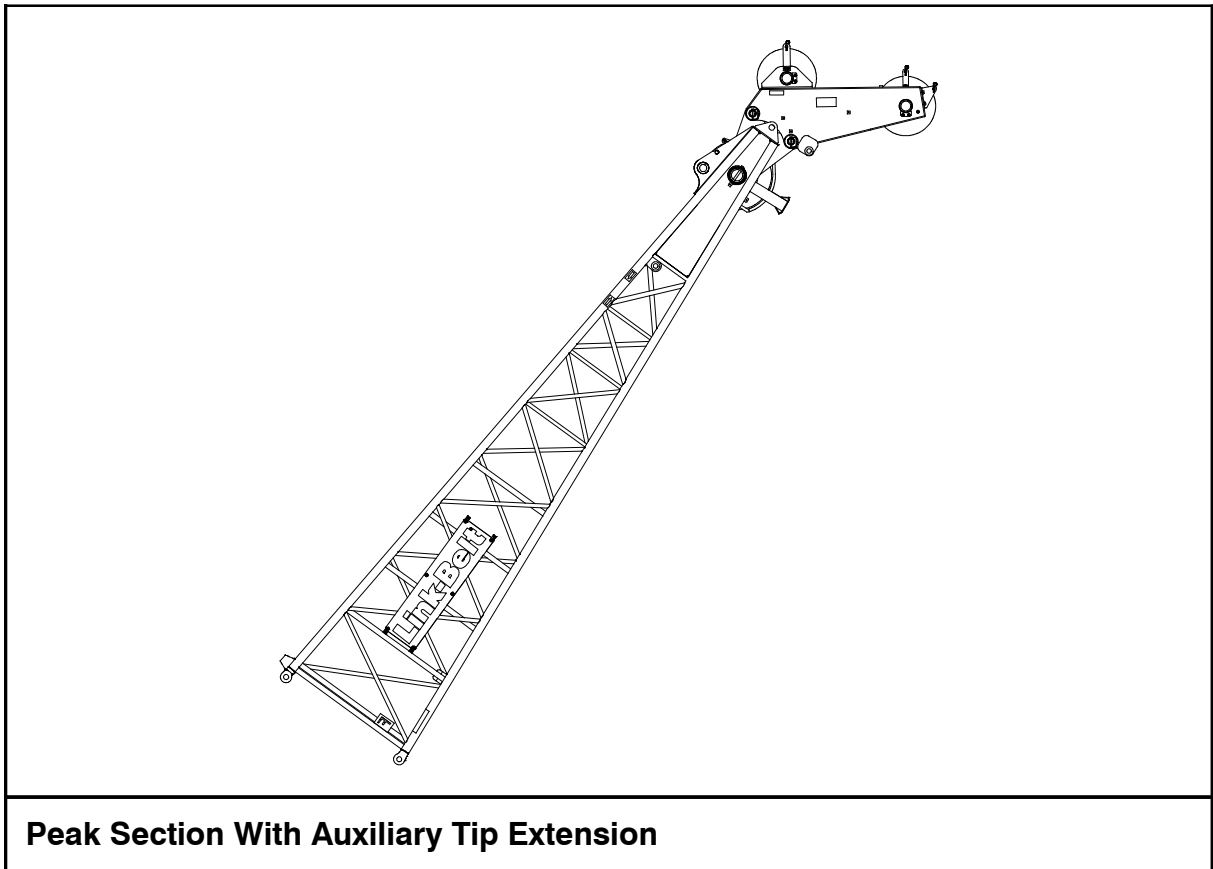
Maximum Allowable Capacities For Auxiliary Tip Extension

Lifting Capacity To Be The Smallest Of The Following Values:

1. 37,000 lb maximum.
2. The standard crane lift capacity minus 900 lb with nylon sheaves or 1,150 lb with steel sheaves for the crane configuration in use.

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 auxiliary tip extension with nylon sheaves is installed.
3. Reduce the main boom lift capacities by 1,150 lb when the auxiliary tip extension with steel sheaves is installed.
4. The maximum boom length on which the auxiliary tip extension can be installed is 200'.
5. Do not lift or suspend a load from the auxiliary tip extension and main boom at the same time.



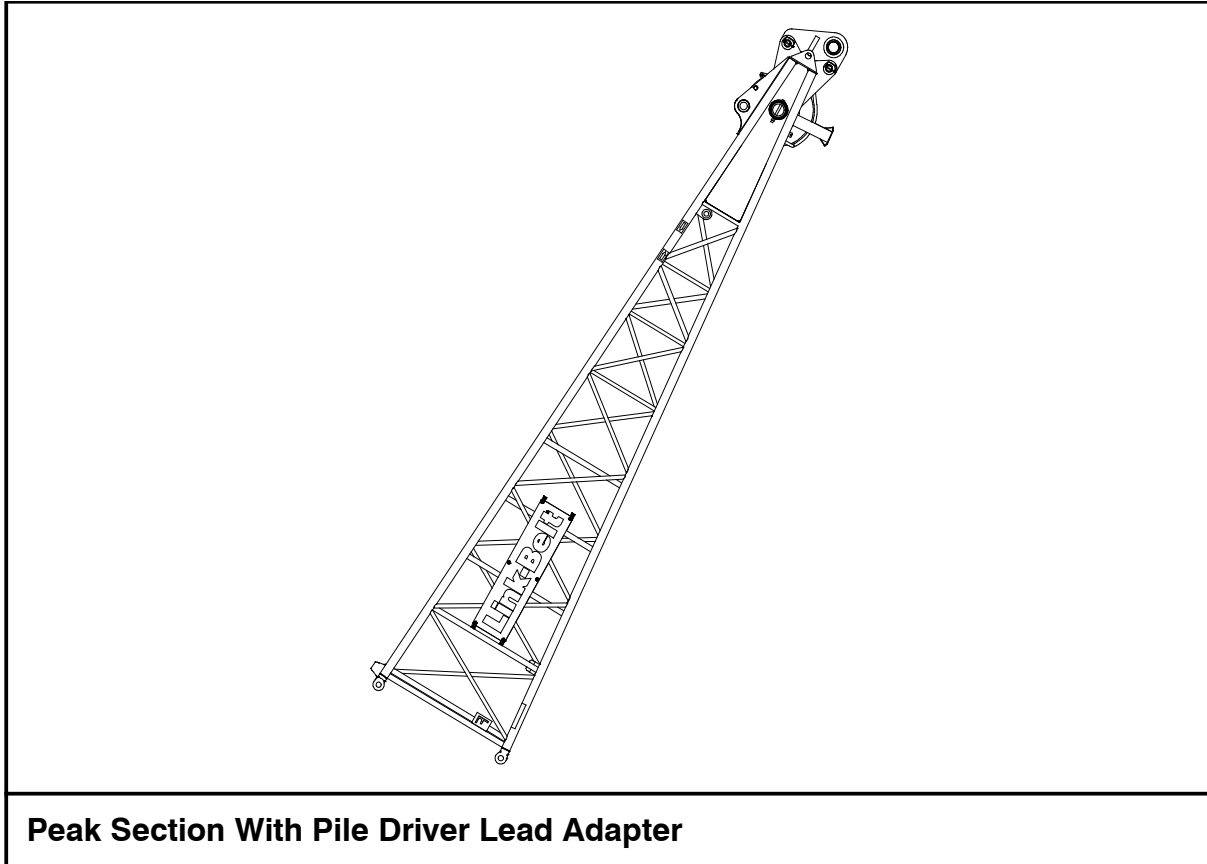
Maximum Allowable Capacities For Pile Driver Lead Adapter

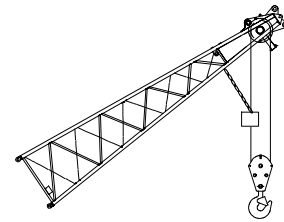
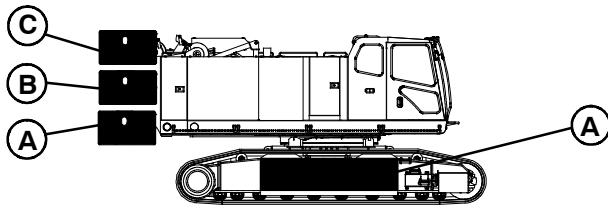
Lifting Capacity To Be The Smallest Of The Following Values:

1. 100,000 lb maximum.
2. The standard crane lift capacity minus 200 lb for crane configuration in use.

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 200 lb when the pile driver lead adapter is installed.
3. The maximum boom length on which the pile driver lead adapter can be installed is 200'.

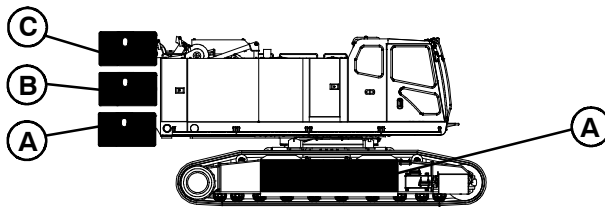




Main Boom Capacities - 40' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						
		Extended Side Frames		Extended Side Frames					Retracted Side Frames	
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)
11.28	80.0	220,000	Prohibited	220,000	Prohibited	216,400	201,700	144,600	113,200	62,700
12	78.9	216,400		208,400		204,500	190,500	122,300	101,700	56,300
13	77.5	202,900		195,300		189,900	166,200	100,700	89,100	49,200
14	76.0	189,400		183,400		177,300	141,300	85,500	79,200	43,600
15	74.5	177,600		173,100		158,800	122,800	74,200	71,300	39,100
16	73.0	167,100		163,700		140,500	108,600	65,400	64,800	35,400
17	71.5	157,800		155,400		125,800	97,200	58,500	59,300	32,300
18	70.0	149,500		147,700		113,900	88,000	52,900	54,600	29,700
19	68.5	142,000		137,500		104,000	80,300	48,100	50,600	27,400
20	66.9	135,100		126,600		95,700	73,800	44,200	47,100	25,500
25	58.9	108,800		90,200		68,000	52,300	31,000	34,900	18,500
30	50.1	86,900		69,800		52,500	40,200	23,600	27,400	14,300
35	39.9	68,100		56,700		42,500	32,400	18,800	22,400	11,500
40	26.9	53,500	47,600	35,600	27,000	15,500	18,800	9,400		
41.92	20.0	51,000	44,800	33,400	25,300	14,400	17,600	8,700		

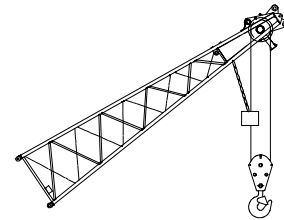
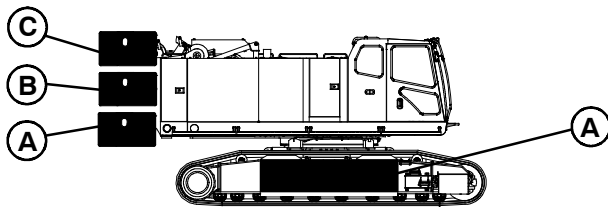
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities - 50' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						
		Extended Side Frames		Extended Side Frames					Retracted Side Frames	
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)
13.01	80.0	192,700	Prohibited	192,700	Prohibited	189,400	166,200	100,800	89,100	49,200
14	78.8	189,000		183,400		177,000	141,600	85,800	79,400	43,700
15	77.7	177,300		173,100		159,100	123,100	74,400	71,400	39,200
16	76.5	166,900		163,700		140,700	108,800	65,600	64,800	35,500
17	75.3	157,600		155,400		126,100	97,400	58,700	59,400	32,400
18	74.1	149,300		147,700		114,100	88,100	53,000	54,700	29,800
19	72.9	141,800		137,700		104,200	80,400	48,300	50,700	27,500
20	71.7	135,000		126,700		95,900	73,900	44,300	47,200	25,500
25	65.6	108,700		90,300		68,200	52,400	31,000	34,900	18,600
30	59.1	87,400		69,900		52,600	40,300	23,700	27,500	14,400
35	52.2	70,300		56,800		42,600	32,600	18,900	22,500	11,500
40	44.5	58,600		47,700		35,700	27,200	15,600	18,900	9,500
50	24.0	40,800	35,800	26,600	20,100	11,200	14,000	6,700		
51.32	20.0	39,700	34,700	25,700	19,400	10,800	13,500	6,400		

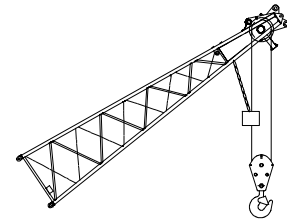
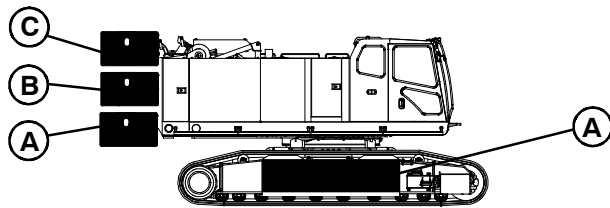
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities - 60' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						
		Extended Side Frames		Extended Side Frames					Retracted Side Frames	
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)
14.75	80.0	171,000	Prohibited	171,000	Prohibited	164,600	127,500	77,100	73,300	40,300
15	79.8	169,900		169,900		159,300	123,300	74,500	71,400	39,200
16	78.8	166,700		163,700		140,800	108,900	65,700	64,800	35,500
17	77.8	157,300		155,400		126,200	97,500	58,800	59,300	32,400
18	76.8	149,000		147,700		114,200	88,200	53,100	54,700	29,800
19	75.8	141,500		137,800		104,300	80,500	48,300	50,700	27,500
20	74.9	134,700		126,800		95,900	74,000	44,300	47,200	25,500
25	69.8	108,500		90,400		68,200	52,400	31,000	34,900	18,500
30	64.7	87,500		69,900		52,600	40,300	23,700	27,400	14,300
35	59.3	70,300		56,800		42,600	32,500	18,900	22,400	11,500
40	53.5	58,600		47,700		35,700	27,100	15,600	18,800	9,500
50	40.4	43,600		35,900		26,600	20,100	11,200	14,000	6,700
60	21.9	32,600		28,500		21,000	15,700	8,500	10,900	4,900
60.71	20.0	32,200	28,000	20,600	15,400	8,300	10,700	4,800		

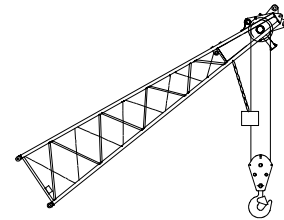
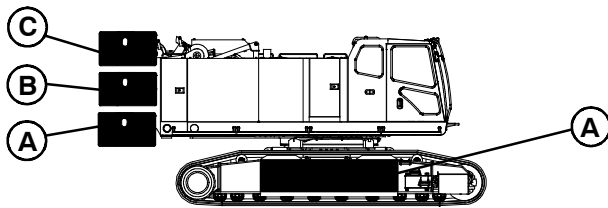
Note: Refer To Page 26 For “Capacity Deductions” Caused By Any Attachment On The Boom.



Main Boom Capacities - 70' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						
		Extended Side Frames		Extended Side Frames					Retracted Side Frames	
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)
16.49	80.0	155,000	Prohibited	155,000	Prohibited	133,300	103,100	62,100	62,000	33,900
17	79.6	153,600		153,600		126,200	97,600	58,600	59,300	32,300
18	78.7	148,600		147,700		114,200	88,200	53,000	54,600	29,700
19	77.9	141,200		137,800		104,300	80,500	48,300	50,600	27,400
20	77.1	134,400		126,800		95,900	74,000	44,300	47,100	25,400
25	72.8	108,300		90,300		68,100	52,400	30,900	34,800	18,500
30	68.5	87,400		69,900		52,500	40,200	23,600	27,300	14,200
35	64.0	70,200		56,800		42,600	32,500	18,800	22,300	11,400
40	59.4	58,500		47,600		35,600	27,100	15,500	18,700	9,400
50	49.3	43,600		35,800		26,600	20,000	11,100	13,900	6,600
60	37.3	34,500		28,400		20,900	15,600	8,400	10,800	4,800
70	20.3	26,700	23,300	17,100	12,600	6,500	8,600	3,600		
70.11	20.0	26,600	23,300	17,000	12,600	6,500	8,600	3,600		

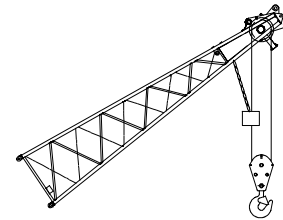
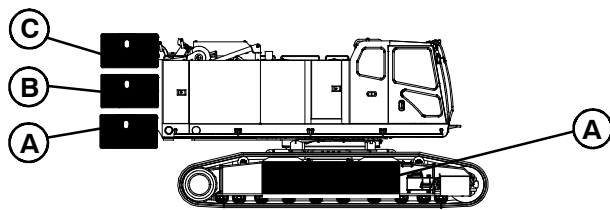
Note: Refer To Page 26 For “Capacity Deductions” Caused By Any Attachment On The Boom.



Main Boom Capacities - 80' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						
		Extended Side Frames		Extended Side Frames					Retracted Side Frames	
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)
18.22	80.0	138,000	Prohibited	138,000	Prohibited	111,800	86,400	51,900	53,600	29,100
19	79.4	136,300		136,300		104,300	80,500	48,200	50,500	27,300
20	78.7	133,800		126,700		95,900	74,000	44,200	47,000	25,300
25	75.0	108,000		90,200		68,100	52,300	30,800	34,700	18,300
30	71.3	87,400		69,800		52,500	40,200	23,500	27,200	14,100
35	67.5	70,100		56,700		42,500	32,400	18,700	22,200	11,300
40	63.5	58,400		47,500		35,500	27,000	15,300	18,600	9,200
50	55.2	43,500		35,700		26,500	19,900	11,000	13,800	6,500
60	45.9	34,400		28,300		20,800	15,500	8,300	10,700	4,700
70	34.8	28,200		23,300		17,000	12,500	6,400	8,600	3,500
80	18.9	22,500	19,600	14,200	10,300	5,100	6,900	-		

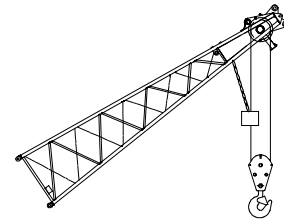
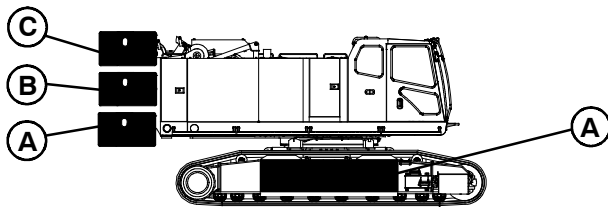
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities - 90' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						
		Extended Side Frames		Extended Side Frames					Retracted Side Frames	
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)
19.96	80.0	126,200	Prohibited	126,200	Prohibited	96,100	74,100	44,200	47,000	25,300
25	76.7	107,700		90,200		68,000	52,200	30,700	34,500	18,200
30	73.4	87,300		69,700		52,300	40,000	23,300	27,100	14,000
35	70.1	70,000		56,500		42,300	32,300	18,500	22,000	11,100
40	66.7	58,300		47,400		35,400	26,800	15,200	18,500	9,100
50	59.5	43,400		35,600		26,300	19,800	10,800	13,600	6,300
60	51.8	34,200		28,200		20,700	15,400	8,100	10,600	4,600
70	43.1	28,100		23,100		16,900	12,400	6,300	8,400	3,300
80	32.8	23,600		19,500		14,100	10,200	4,900	6,800	-
90	17.8	18,900		16,700		11,900	8,500	3,900	5,600	-

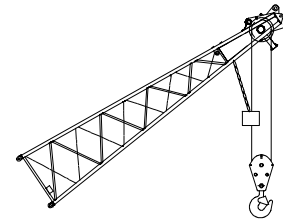
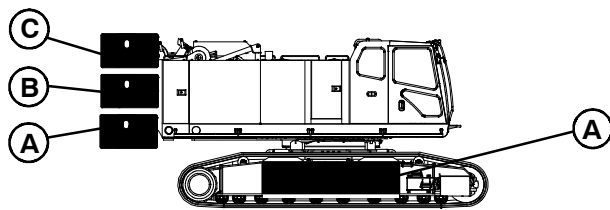
Note: Refer To Page 26 For “Capacity Deductions” Caused By Any Attachment On The Boom.



Main Boom Capacities - 100' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						
		Extended Side Frames		Extended Side Frames					Retracted Side Frames	
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)
21.70	80.0	113,500	113,500	111,400	103,500	84,100	64,800	38,400	41,700	22,200
25	78.1	107,300	106,200	90,100	83,600	67,900	52,100	30,600	34,400'	18,100
30	75.1	87,200	80,400	69,500	64,500	52,200	39,900	23,200	26,900	13,800
35	72.1	69,900	64,500	56,400	52,300	42,200	32,100	18,400	21,900	11,000
40	69.1	58,200	53,600	47,300	43,800	35,200	26,700	15,000	18,300	8,900
50	62.8	43,200	39,700	35,400	32,700	26,200	19,600	10,700	13,500	6,200
60	56.2	34,100	31,300	28,000	25,900	20,600	15,200	7,900	10,400	4,400
70	49.0	27,900	25,600	23,000	21,200	16,700	12,200	6,100	8,300	3,200
80	40.8	23,500	21,400	19,300	17,800	13,900	10,100	4,800	6,700	-
90	31.1	20,100	18,300	16,500	15,200	11,800	8,400	3,700	5,400	-
100	16.9	16,200	15,900	14,300	13,100	10,100	7,100	-	4,500	-

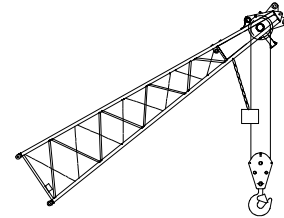
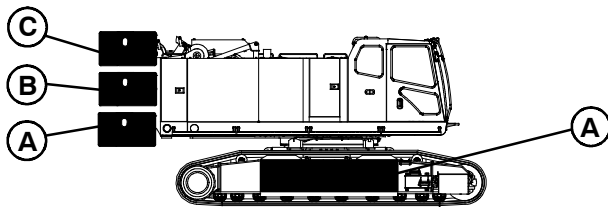
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities - 110' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						
		Extended Side Frames		Extended Side Frames					Retracted Side Frames	
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)
23.43	80.0	104,300	104,300	99,000	91,900	74,600	57,400	33,700	37,400	19,700
25	79.2	102,300	102,300	89,900	83,500	67,700	52,000	30,400	34,200	17,900
30	76.5	86,700	80,300	69,400	64,400	52,100	39,800	23,100	26,700	13,600
35	73.8	69,800	64,300	56,300	52,100	42,100	32,000	18,200	21,700	10,800
40	71.1	58,000	53,400	47,100	43,600	35,100	26,500	14,800	18,100	8,700
50	65.5	43,100	39,600	35,200	32,600	26,000	19,500	10,500	13,300	6,000
60	59.6	33,900	31,100	27,900	25,700	20,400	15,100	7,800	10,200	4,200
70	53.3	27,700	25,400	22,800	21,000	16,500	12,100	5,900	8,100	3,000
80	46.5	23,300	21,300	19,200	17,600	13,700	9,900	4,600	6,500	-
90	38.8	19,900	18,200	16,400	15,000	11,600	8,200	3,500	5,300	-
100	29.6	17,300	15,700	14,200	13,000	9,900	6,900	-	4,300	-
110	16.1	13,800	13,700	12,400	11,300	8,600	5,800	-	3,500	-

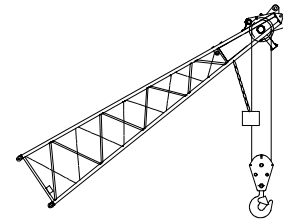
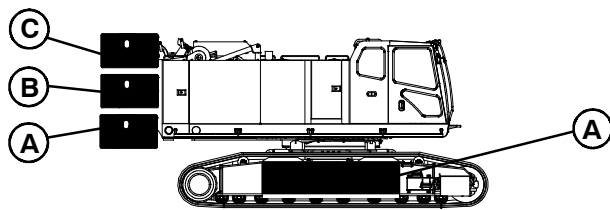
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities - 120' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						
		Extended Side Frames		Extended Side Frames					Retracted Side Frames	
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)
25.17	80.0	96,100	96,100	88,900	82,600	67,000	51,400	29,900	33,700	Prohibited
30	77.6	86,200	80,200	69,300	64,200	51,900	39,700	22,900	26,600	
35	75.2	69,600	64,200	56,100	52,000	41,900	31,800	18,000	21,500	
40	72.7	57,900	53,300	47,000	43,500	34,900	26,400	14,700	17,900	
50	67.6	42,900	39,400	35,100	32,400	25,900	19,300	10,300	13,100	
60	62.4	33,700	30,900	27,700	25,500	20,200	14,900	7,600	10,000	
70	56.8	27,600	25,200	22,700	20,800	16,400	11,900	5,700	7,900	
80	50.9	23,100	21,100	19,000	17,400	13,600	9,700	4,400	6,300	
90	44.4	19,800	18,000	16,200	14,800	11,400	8,100	3,300	5,100	
100	37.1	17,100	15,600	14,000	12,800	9,800	6,800	-	4,100	
110	28.3	15,000	13,600	12,300	11,100	8,400	5,700	-	3,300	
120	15.4	12,000	12,000	10,800	9,800	7,300	4,800	-	-	

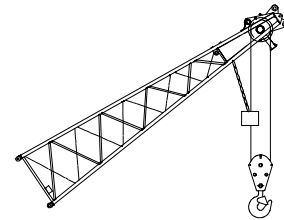
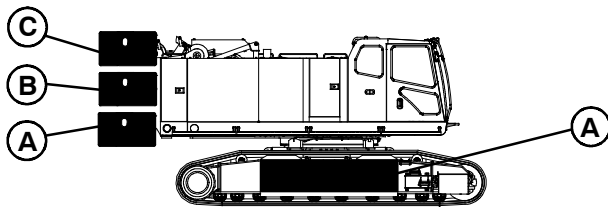
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities - 130' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						
		Extended Side Frames		Extended Side Frames					Retracted Side Frames	
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)
26.91	80.0	86,200	86,200	80,600	74,800	60,600	46,400	27,000	30,600	Prohibited
30	78.6	83,200	80,100	69,100	64,100	51,800	39,500	22,700	26,400	
35	76.4	69,500	64,000	55,900	51,800	41,700	31,700	17,900	21,400	
40	74.1	57,700	53,100	46,800	43,300	34,800	26,200	14,500	17,800	
50	69.4	42,700	39,200	34,900	32,200	25,700	19,100	10,100	12,900	
60	64.6	33,600	30,800	27,500	25,300	20,000	14,700	7,400	9,800	
70	59.7	27,400	25,000	22,500	20,600	16,200	11,700	5,500	7,700	
80	54.4	22,900	20,900	18,800	17,200	13,400	9,500	4,200	6,100	
90	48.8	19,600	17,800	16,000	14,600	11,300	7,900	3,100	4,900	
100	42.6	17,000	15,400	13,800	12,600	9,600	6,600	-	4,000	
110	35.6	14,800	13,400	12,100	11,000	8,200	5,500	-	3,200	
120	27.2	12,800	11,800	10,600	9,600	7,100	4,600	-	-	
130	14.8	10,300	10,300	9,400	8,400	6,200	3,900	-	-	

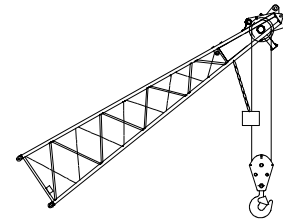
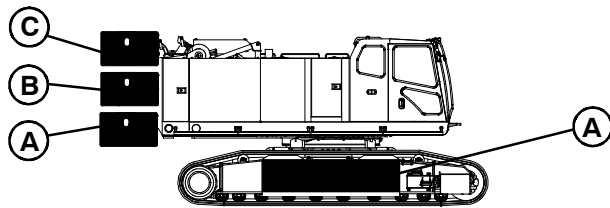
Note: Refer To Page 26 For “Capacity Deductions” Caused By Any Attachment On The Boom.



Main Boom Capacities - 140' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						
		Extended Side Frames		Extended Side Frames					Retracted Side Frames	
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)
28.64	80.0	79,500	79,500	73,600	68,300	55,200	42,100	Prohibited	27,900	Prohibited
30	79.4	78,300	78,300	69,000	63,900	51,700	39,400		26,200	
35	77.3	69,400	63,900	55,800	51,700	41,600	31,500		21,200	
40	75.2	57,600	53,000	46,600	43,100	34,600	26,100		17,600	
50	71.0	42,500	39,100	34,700	32,000	25,500	19,000		12,700	
60	66.6	33,400	30,600	27,300	25,200	19,900	14,500		9,700	
70	62.0	27,200	24,900	22,300	20,500	16,000	11,500		7,500	
80	57.3	22,700	20,700	18,600	17,100	13,200	9,400		5,900	
90	52.3	19,400	17,600	15,800	14,500	11,100	7,700		4,700	
100	46.9	16,800	15,200	13,700	12,400	9,400	6,400		3,800	
110	41.0	14,600	13,200	11,900	10,800	8,100	5,300		3,000	
120	34.3	12,900	11,600	10,400	9,400	6,900	4,500		-	
130	26.2	10,900	10,300	9,200	8,300	6,000	3,700		-	
140	14.3	8,800	8,800	8,200	7,300	5,200	3,100		-	

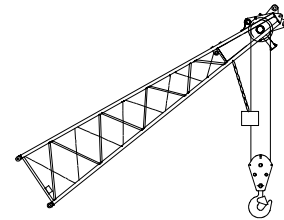
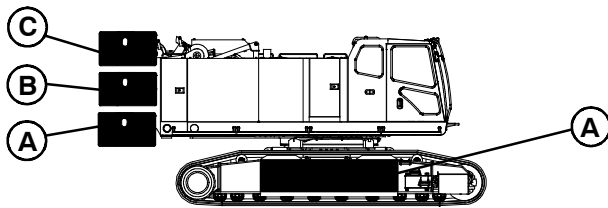
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities - 150' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						
		Extended Side Frames		Extended Side Frames					Retracted Side Frames	
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)
30.38	80.0	73,400	73,400	67,600	62,700	50,600	38,500	Prohibited	25,600	Prohibited
35	78.2	69,000	63,700	55,600	51,500	41,400	31,300		21,000	
40	76.2	57,400	52,800	46,500	43,000	34,400	25,900		17,400	
50	72.3	42,400	38,900	34,500	31,900	25,300	18,800		12,500	
60	68.2	33,200	30,400	27,100	25,000	19,700	14,400		9,500	
70	64.0	27,000	24,700	22,100	20,300	15,800	11,400		7,300	
80	59.7	22,600	20,500	18,400	16,900	13,000	9,200		5,700	
90	55.2	19,200	17,400	15,700	14,300	10,900	7,500		4,500	
100	50.4	16,600	15,000	13,500	12,200	9,200	6,200		3,600	
110	45.2	14,500	13,000	11,700	10,600	7,900	5,100		-	
120	39.5	12,700	11,400	10,300	9,200	6,800	4,300		-	
130	33.1	11,300	10,100	9,000	8,100	5,800	3,500		-	
140	25.2	9,400	8,900	8,000	7,100	5,000	-		-	
150	13.8	7,500	7,500	7,100	6,300	4,300	-		-	

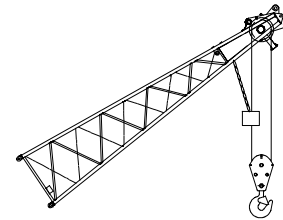
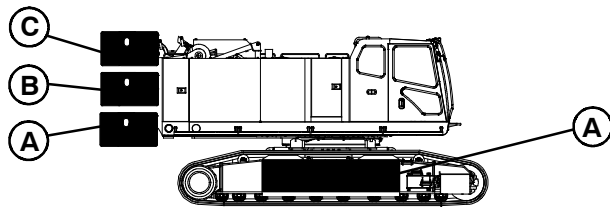
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities - 160' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						
		Extended Side Frames		Extended Side Frames					Retracted Side Frames	
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)
32.11	80.0	67,400	67,400	62,400	57,800	46,600	35,300	Prohibited	23,500	Prohibited
35	78.9	65,300	63,600	55,500	51,300	41,300	31,200		20,800	
40	77.1	57,200	52,700	46,300	42,800	34,300	25,700		17,200	
50	73.4	42,200	38,700	34,400	31,700	25,100	18,600		12,300	
60	69.6	33,000	30,200	27,000	24,800	19,500	14,200		9,300	
70	65.8	26,800	24,500	21,900	20,100	15,600	11,200		7,100	
80	61.8	22,400	20,300	18,200	16,700	12,800	9,000		5,500	
90	57.6	19,000	17,200	15,500	14,100	10,700	7,300		4,300	
100	53.3	16,400	14,800	13,300	12,000	9,000	6,000		3,400	
110	48.7	14,300	12,800	11,500	10,400	7,700	4,900		-	
120	43.7	12,500	11,200	10,100	9,000	6,600	4,100		-	
130	38.2	11,100	9,900	8,800	7,900	5,600	3,300		-	
140	32.0	9,700	8,700	7,800	6,900	4,800	-		-	
150	24.4	8,000	7,700	6,900	6,100	4,100	-		-	
160	13.4	6,300	6,300	6,100	5,300	3,500	-		-	

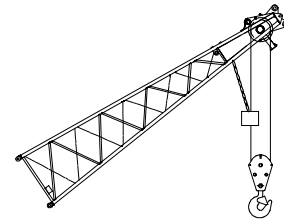
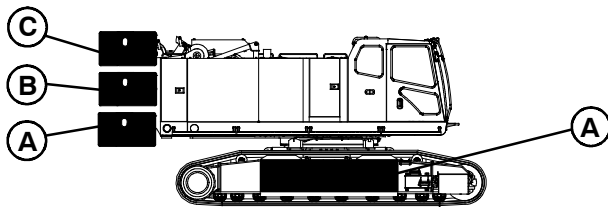
Note: Refer To Page 26 For “Capacity Deductions” Caused By Any Attachment On The Boom.



Main Boom Capacities - 170' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						
		Extended Side Frames		Extended Side Frames				Retracted Side Frames		
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)
33.85	80.0	61,500	61,500	57,900	53,600	43,100	32,600	Prohibited		
35	79.6	58,500	58,500	55,300	51,200	41,100	31,000			
40	77.9	55,200	52,500	46,100	42,600	34,100	25,500			
50	74.4	42,000	38,500	34,200	31,500	25,000	18,400			
60	70.9	32,800	30,000	26,800	24,600	19,300	14,000			
70	67.3	26,600	24,300	21,700	19,900	15,400	11,000			
80	63.6	22,200	20,100	18,000	16,500	12,600	8,800			
90	59.7	18,800	17,000	15,300	13,900	10,500	7,100			
100	55.8	16,200	14,600	13,100	11,800	8,800	5,800			
110	51.6	14,000	12,600	11,300	10,200	7,500	4,700			
120	47.1	12,300	11,000	9,900	8,800	6,400	3,900			
130	42.3	10,900	9,700	8,600	7,700	5,400	3,100			
140	37.1	9,600	8,500	7,600	6,700	4,600	-			
150	31.0	8,100	7,500	6,700	5,900	3,900	-			
160	23.7	6,700	6,700	5,900	5,200	3,300	-			
170	13.0	5,200	5,200	5,200	4,500	-	-			

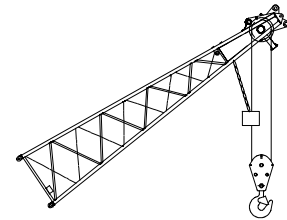
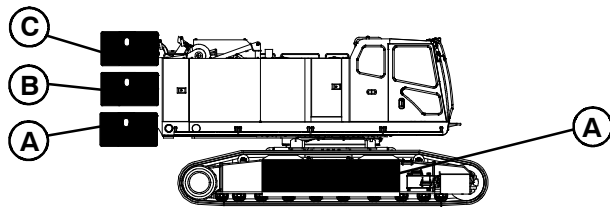
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities - 180' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						
		Extended Side Frames		Extended Side Frames				Retracted Side Frames		
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)
35.59	80.0	54,000	54,000	53,900	49,800	40,000	30,100	Prohibited		
40	78.6	51,300	51,300	45,900	42,400	33,900	25,400			
50	75.3	41,800	38,400	34,000	31,300	24,800	18,200			
60	72.0	32,600	29,800	26,600	24,400	19,100	13,800			
70	68.6	26,400	24,100	21,500	19,700	15,200	10,800			
80	65.1	22,000	19,900	17,800	16,300	12,400	8,600			
90	61.6	18,600	16,800	15,100	13,700	10,300	6,900			
100	57.9	16,000	14,400	12,900	11,600	8,600	5,600			
110	54.1	13,800	12,400	11,100	10,000	7,300	4,500			
120	50.0	12,100	10,800	9,700	8,600	6,200	3,700			
130	45.7	10,700	9,500	8,400	7,500	5,200	-			
140	41.1	9,400	8,300	7,400	6,500	4,400	-			
150	36.0	8,100	7,300	6,500	5,700	3,700	-			
160	30.1	6,800	6,500	5,700	5,000	3,100	-			
170	23.0	5,500	5,500	5,000	4,300	-	-			
180	12.6	4,200	4,200	4,200	3,700	-	-			

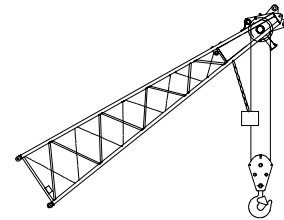
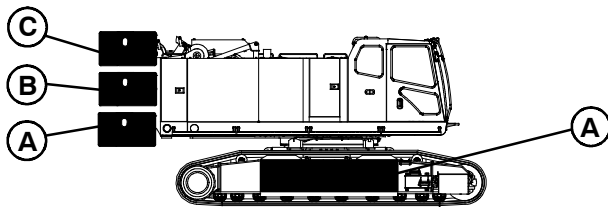
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities - 190' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						
		Extended Side Frames		Extended Side Frames				Retracted Side Frames		
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)
37.32	80.0	48,600	48,600	48,600	46,500	37,200	27,900	Prohibited		
40	79.2	47,600	47,600	45,800	42,300	33,700	25,200			
50	76.1	40,700	38,200	33,800	31,100	24,600	18,000			
60	73.0	32,400	29,600	26,400	24,200	18,900	13,600			
70	69.8	26,200	23,900	21,300	19,500	15,000	10,600			
80	66.5	21,800	19,700	17,600	16,100	12,200	8,400			
90	63.2	18,400	16,600	14,900	13,500	10,100	6,700			
100	59.8	15,700	14,200	12,700	11,400	8,400	5,400			
110	56.2	13,600	12,200	10,900	9,800	7,100	4,300			
120	52.5	11,900	10,600	9,500	8,400	6,000	3,500			
130	48.6	10,400	9,300	8,200	7,300	5,000	-			
140	44.4	9,200	8,100	7,200	6,300	4,200	-			
150	39.9	8,000	7,100	6,300	5,500	3,500	-			
160	35.0	7,000	6,300	5,500	4,800	-	-			
170	29.3	5,700	5,500	4,800	4,100	-	-			
180	22.4	4,600	4,600	4,200	3,600	-	-			
190	12.3	3,400	3,400	3,400	3,000	-	-			

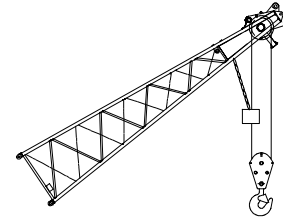
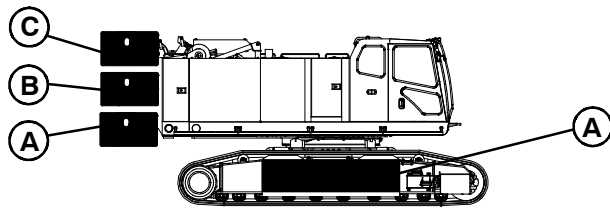
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities - 200' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						
		Extended Side Frames		Extended Side Frames				Retracted Side Frames		
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)
39.06	80.0	43,100	43,100	43,100	43,100	34,700	Prohibited			
40	79.7	43,100	43,100	43,100	42,100	33,500				
50	76.8	37,700	37,700	33,600	30,900	24,400				
60	73.8	31,700	29,400	26,200	24,000	18,700				
70	70.8	25,100	23,700	21,100	19,300	14,800				
80	67.8	21,300	19,500	17,400	15,900	12,000				
90	64.6	18,200	16,400	14,700	13,300	9,900				
100	61.4	15,500	14,000	12,500	11,200	8,200				
110	58.1	13,400	12,000	10,700	9,600	6,900				
120	54.7	11,500	10,400	9,200	8,200	5,700				
130	51.1	10,000	9,000	8,000	7,100	4,800				
140	47.3	8,500	7,900	7,000	6,100	4,000				
150	43.3	7,300	6,900	6,100	5,300	3,300				
160	38.9	6,200	6,100	5,300	4,600	-				
170	34.1	5,300	5,300	4,600	3,900	-				
180	28.6	4,400	4,400	4,000	3,400	-				
190	21.8	3,700	3,700	3,500	-	-				

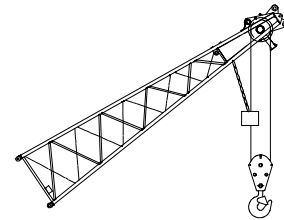
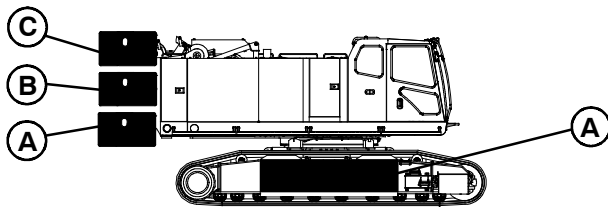
Note: Refer To Page 26 For “Capacity Deductions” Caused By Any Attachment On The Boom.



Main Boom Capacities - 210' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						
		Extended Side Frames		Extended Side Frames				Retracted Side Frames		
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)
40.80	80.0	38,400	38,400	38,400	38,400	32,400	Prohibited			
50	77.4	34,000	34,000	33,400	30,700	24,200				
60	74.6	26,500	26,500	26,000	23,800	18,500				
70	71.8	22,400	22,400	20,900	19,100	14,600				
80	68.9	19,200	19,200	17,200	15,600	11,800				
90	65.9	16,300	16,200	14,400	13,000	9,700				
100	62.9	14,700	13,700	12,200	11,000	8,000				
110	59.8	13,200	11,800	10,500	9,400	6,600				
120	56.6	11,400	10,200	9,000	8,000	5,500				
130	53.2	10,000	8,800	7,800	6,900	4,600				
140	49.8	8,800	7,700	6,800	5,900	3,800				
150	46.1	7,700	6,700	5,900	5,100	3,100				
160	42.2	6,700	5,800	5,100	4,300	-				
170	37.9	5,600	5,100	4,400	3,700	-				
180	33.2	4,500	4,400	3,800	3,100	-				
190	27.9	3,600	3,600	3,200	-	-				

Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.

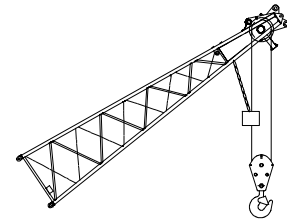
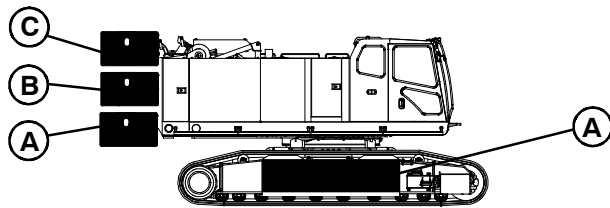


Main Boom Capacities - 220' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation							
		Extended Side Frames		Extended Side Frames					Retracted Side Frames		
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	
42.53	80.0	34,500	34,500	34,500	34,500						
50	78.0	31,300	31,300	31,300	30,500						
60	75.3	24,400	24,400	24,400	23,600						
70	72.6	21,000	21,000	20,700	18,900						
80	69.9	19,700	19,100	17,000	15,400						
90	67.1	17,700	16,000	14,200	12,800						
100	64.2	15,100	13,500	12,000	10,800						
110	61.3	13,000	11,600	10,300	9,100						
120	58.3	11,200	9,900	8,800	7,800						
130	55.2	9,800	8,600	7,600	6,700						
140	51.9	8,500	7,400	6,500	5,700						
150	48.5	7,500	6,500	5,700	4,900						
160	45.0	6,600	5,600	4,900	4,100						
170	41.1	5,500	4,900	4,200	3,500						
180	37.0	4,400	4,200	3,600	-						
190	32.4	3,500	3,500	3,000	-						

Prohibited

Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities - 230' Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						
		Extended Side Frames		Extended Side Frames				Retracted Side Frames		
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)
44.27	80.0	28,600	28,600	28,600	28,600					
50	78.5	26,600	26,600	26,600	26,600					
60	76.0	23,500	23,500	23,500	23,400					
70	73.4	22,000	22,000	20,500	18,700					
80	70.8	20,000	18,900	16,800	15,200					
90	68.1	17,500	15,800	14,000	12,600					
100	65.4	14,900	13,300	11,800	10,600					
110	62.6	12,800	11,300	10,000	8,900					
120	59.8	11,000	9,700	8,600	7,600					
130	56.9	9,600	8,400	7,400	6,400					
140	53.9	8,300	7,200	6,300	5,500					
150	50.7	7,300	6,200	5,400	4,600					
160	47.4	6,300	5,400	4,700	3,900					
170	43.9	5,200	4,600	4,000	3,300					
180	40.2	4,200	4,000	3,400	-					
190	36.2	3,300	3,300	-	-					

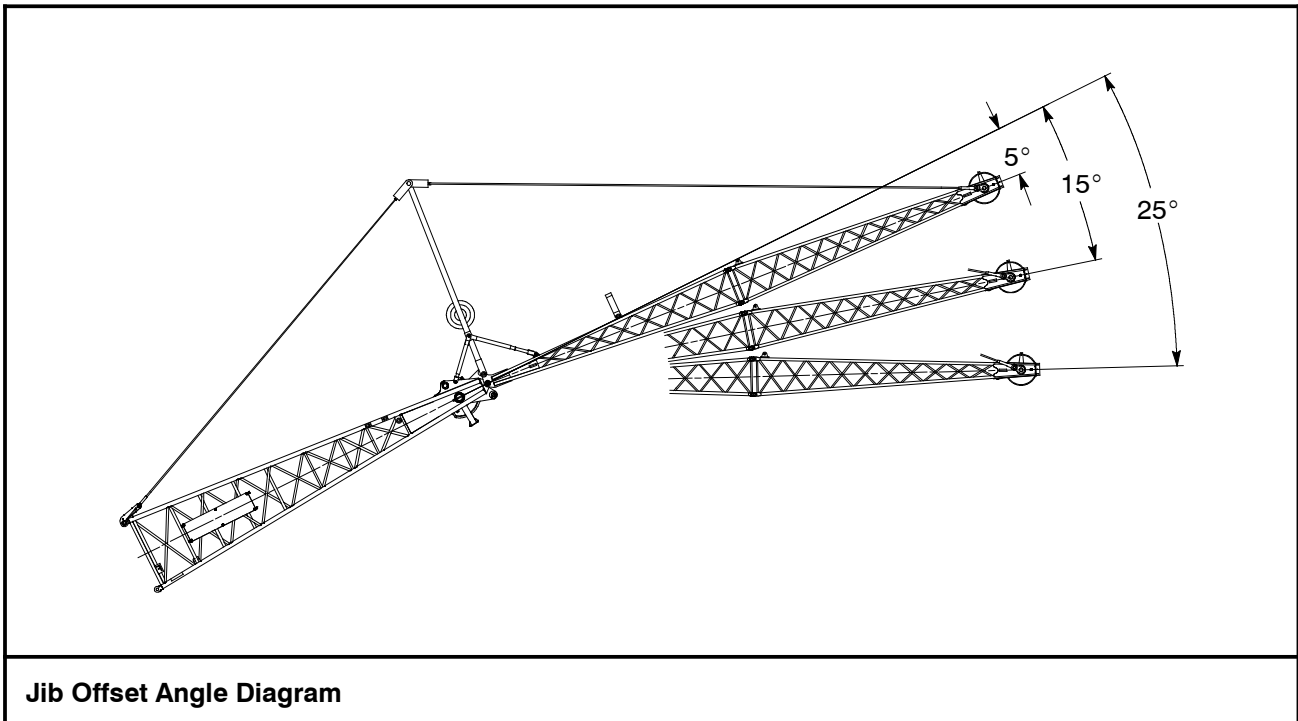
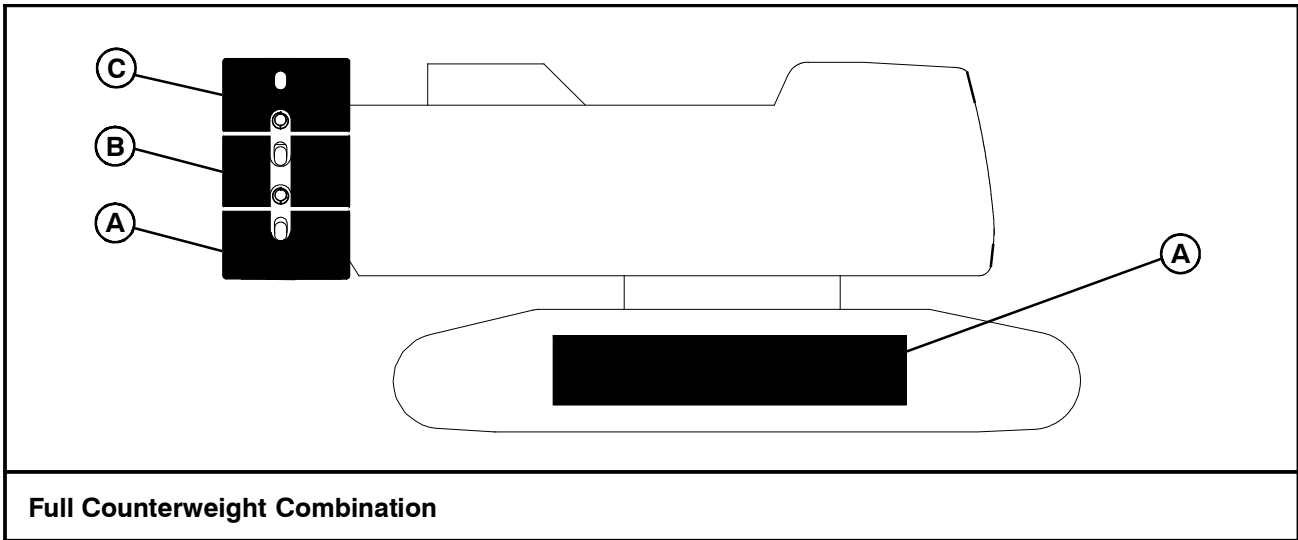
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Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.

Jib Notes For Tube Boom

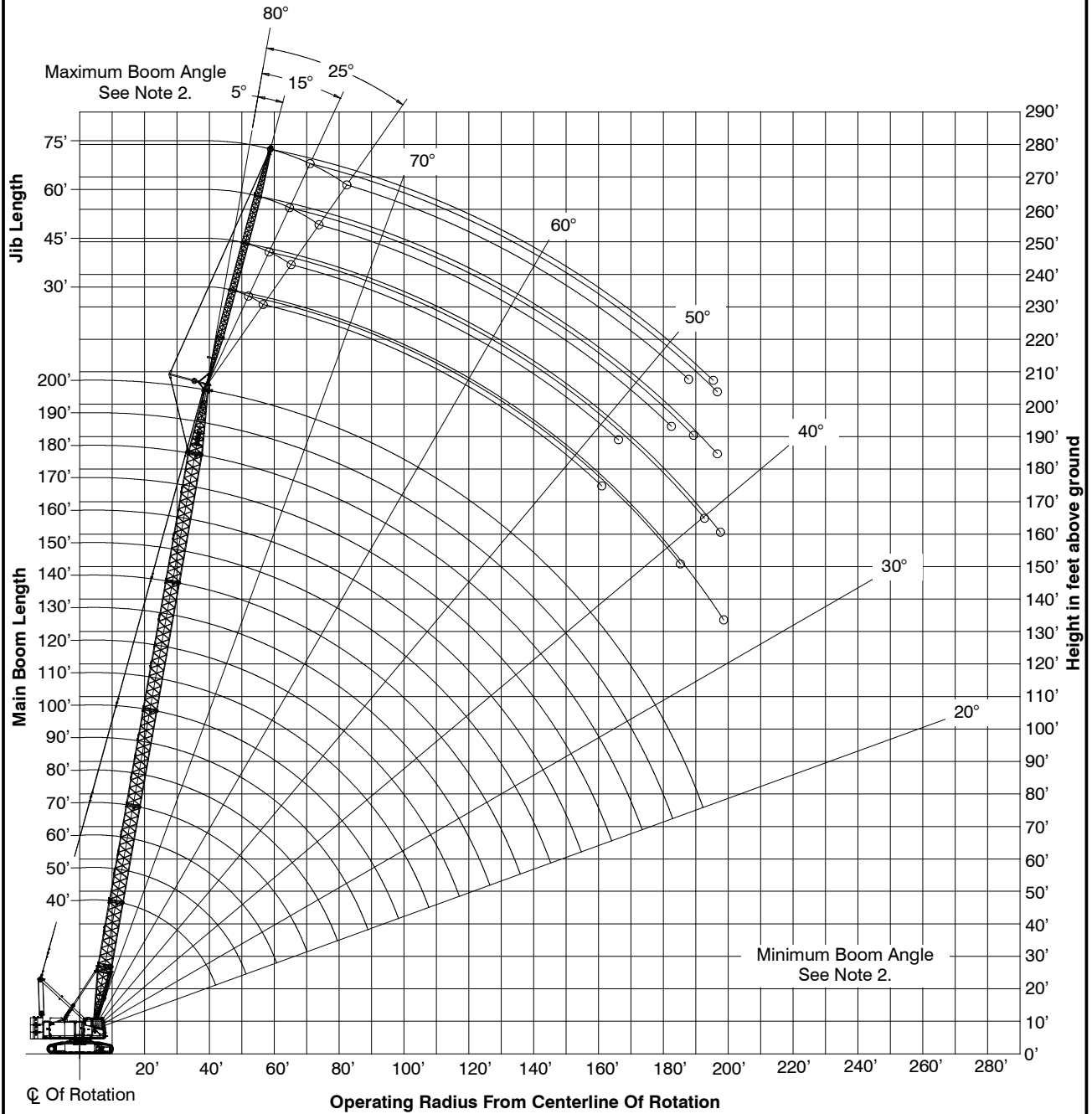
1. Capacities are for a 218 HSL crawler crane with “ABC” (63,060 lb) upper + “A” (22,200 lb) lower counterweights.
2. Separate capacity charts are listed for 360° and for “Over End Blocked” working areas. Verify operating conditions as described on the Working Areas Diagram in the general information section of this Crane Rating Manual. Apply the appropriate lift capacity chart based on the working area and the specific operating conditions.
3. “Over End Blocked” capacities can be lifted over either end with the crane standing level on a firm supporting surface. Adequate blocking must be placed under both side frame sprockets (or idler rollers), at the end that the load is to be lifted, to prevent rocking. The ramps supplied with the crane are considered to be adequate blocking.
4. Capacities are for side frames in the extended position only and are based on the crane standing level on a firm supporting surface.
5. Capacities are limited to a LBC 50” x 60” tube boom and a LBC 12 ton, 24” x 32” cross section jib with a 11’ - 6” high jib mast properly assembled.
6. Two parts of 26mm Diameter Type “RB” wire rope are required for maximum lift.
7. Capacities are for 30’, 45’, 60’, and 75’ jib lengths only.
8. Maximum boom plus jib combination is 200’ + 75’.
9. The least stable condition is over the side.
10. All capacities are listed in pounds and are not more than 75% of the tipping loads. Capacities in shaded areas are based on factors other than those that would cause a tipping condition.
11. A deduction must be made from the jib capacities for the weight of the following: Main boom hook block or hook ball, jib hook block or hook ball, slings, grapple, etc. In addition, the weight of any wire rope on the main boom hook block or hook ball, and any extra parts of line on the jib hook block or hook ball must be deducted.
12. Jib attachment to be used for general duty lifts only. Do not use jib for demolition, drop ball, dragline, or any other type of duty cycle application.

Jib Notes For Tube Boom



Working Range Diagram

40' To 200' Tube Boom With 30' - 75' 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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218 HSL 50" x 60" Tube Boom and 24" x 32" Jib Capacities With ABC+A Counterweight

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

Boom Length (ft)	Jib Length (ft)	Load Radius (ft)	Boom Angle (deg)	Tip Height (ft)	5 Degree Offset		Boom Angle (deg)	Tip Height (ft)	15 Degree Offset		Boom Angle (deg)	Tip Height (ft)	25 Degree Offset		Load Radius (ft)
					End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)	
40	30	19.35	80.0	77.5	24,000	24,000									19.35
40	30	20	79.5	77.4	24,000	24,000									20
40	30	25	75.3	76.1	24,000	24,000	79.4	75.5	24,000	24,000					25
40	30	30	71.1	74.4	24,000	24,000	75.1	73.8	24,000	24,000	78.9	72.7	20,700	20,700	30
40	30	35	66.8	72.2	24,000	24,000	70.7	71.6	24,000	24,000	74.5	70.5	18,800	18,800	35
40	30	40	62.3	69.6	24,000	24,000	66.2	69.0	24,000	24,000	69.8	67.8	17,300	17,300	40
40	30	50	52.5	62.7	24,000	24,000	56.3	62.0	19,400	19,400	59.8	60.6	15,000	15,000	50
40	30	60	41.2	52.6	19,600	19,600	44.8	51.8	16,400	16,400	47.9	50.0	13,400	13,400	60
40	30	70	25.7	36.2	16,500	16,500									70
40	45	23.23	80.0	92.0	24,000	24,000									23.23
40	45	25	78.8	91.6	24,000	24,000									25
40	45	30	75.4	90.2	24,000	24,000									30
40	45	35	71.9	88.5	24,000	24,000	76.9	87.8	20,200	20,200					35
40	45	40	68.3	86.4	23,400	23,400	73.3	85.7	17,700	17,700	78.1	84.3	13,500	13,500	40
40	45	50	60.8	81.1	18,000	17,900	65.7	80.3	14,300	14,300	70.3	78.8	11,200	11,200	50
40	45	60	52.6	73.9	14,500	14,500	57.5	73.0	12,000	12,000	61.9	71.3	9,700	9,700	60
40	45	70	43.3	64.0	12,200	12,200	48.0	63.0	10,300	10,300	52.1	60.9	8,600	8,600	70
40	45	80	31.8	49.7	10,600	10,600	36.2	48.3	9,200	9,200					80
40	60	27.11	80.0	106.5	24,000	24,000									27.11
40	60	30	78.3	105.8	23,600	23,600									30
40	60	35	75.4	104.4	22,200	22,200									35
40	60	40	72.4	102.6	18,900	19,000	78.2	101.8	14,300	14,300					40
40	60	50	66.3	98.3	14,600	14,600	71.9	97.4	11,500	11,500	77.4	95.7	9,000	9,000	50
40	60	60	59.7	92.5	11,900	11,900	65.4	91.6	9,600	9,600	70.7	89.8	7,700	7,700	60
40	60	70	52.7	85.0	10,000	10,000	58.3	84.0	8,300	8,300	63.4	82.1	6,700	6,700	70
40	60	80	44.9	75.3	8,600	8,600	50.3	74.2	7,200	7,200	55.2	71.9	6,000	6,000	80
40	60	90	35.5	62.2	7,500	7,500	40.8	60.8	6,500	6,500	45.3	57.9	5,400	5,400	90
40	75	30.99	80.0	121.0	19,300	19,300									30.99
40	75	35	78.0	120.0	18,600	18,600									35
40	75	40	75.4	118.5	16,100	16,100									40
40	75	50	70.2	114.8	12,500	12,500	76.4	113.9	9,800	9,800					50
40	75	60	64.7	109.9	10,100	10,100	70.9	109.0	8,100	8,100	76.9	107.2	6,300	6,300	60
40	75	70	59.0	103.8	8,500	8,500	65.1	102.9	6,900	6,900	71.0	100.9	5,500	5,500	70
40	75	80	52.8	96.2	7,200	7,200	58.9	95.1	6,000	6,000	64.6	93.0	4,800	4,800	80
40	75	90	46.0	86.6	6,300	6,300	52.0	85.4	5,300	5,300	57.5	83.0	4,300	4,300	90
40	75	100	38.1	74.2	5,600	5,600	44.0	72.7	4,700	4,700	49.2	69.8	3,900	3,900	100
40	75	110	28.3	56.8	5,000	5,000									110
50	30	21.08	80.0	87.4	24,000	24,000									21.08
50	30	25	77.2	86.5	24,000	24,000									25
50	30	30	73.5	85.0	24,000	24,000	77.0	84.4	24,000	24,000					30
50	30	35	69.8	83.1	24,000	24,000	73.3	82.5	24,000	24,000	76.6	81.3	19,600	19,600	35
50	30	40	65.9	80.9	24,000	24,000	69.4	80.3	24,000	24,000	72.6	79.0	18,100	18,100	40
50	30	50	57.8	75.2	24,000	24,000	61.2	74.5	21,400	21,400	64.3	73.1	15,900	15,900	50
50	30	60	48.9	67.2	22,400	22,400	52.2	66.4	18,100	18,100	55.0	64.8	14,200	14,200	60
50	30	70	38.3	56.0	18,800	18,800	41.4	55.0	15,800	15,800					70
50	45	24.97	80.0	101.9	24,000	24,000									24.97
50	45	30	76.9	100.6	24,000	24,000									30
50	45	35	73.8	99.1	24,000	24,000	78.3	98.3	21,300	21,300					35
50	45	40	70.7	97.3	24,000	24,000	75.1	96.5	18,900	18,900	79.4	94.9	14,000	14,000	40
50	45	50	64.1	92.6	20,000	20,000	68.5	91.8	15,300	15,300	72.7	90.1	11,800	11,800	50
50	45	60	57.2	86.5	16,200	16,200	61.5	85.6	12,900	12,900	65.5	83.8	10,200	10,200	60
50	45	70	49.5	78.4	13,600	13,600	53.8	77.4	11,200	11,200	57.6	75.3	9,100	9,100	70
50	45	80	40.8	67.6	11,700	11,700	44.9	66.4	9,900	9,900	48.4	64.0	8,300	8,200	80
50	45	90	29.9	52.2	10,400	10,400									90

218 HSL 50" x 60" Tube Boom and 24" x 32" Jib Capacities With ABC+A Counterweight
Refer to Jib Notes for Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Load Radius (ft)	Boom Angle (deg)	Tip Height (ft)	5 Degree Offset		Boom Angle (deg)	Tip Height (ft)	15 Degree Offset		Boom Angle (deg)	Tip Height (ft)	25 Degree Offset		Load Radius (ft)
					End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)	
50	60	28.85	80.0	116.4	24,000	24,000									28.85
50	60	30	79.4	116.1	23,900	23,900									30
50	60	35	76.7	114.8	22,900	22,900									35
50	60	40	74.1	113.2	20,600	20,600	79.3	112.3	15,000	15,000					40
50	60	50	68.5	109.3	16,000	16,000	73.7	108.4	12,200	12,200	78.7	106.5	9,300	9,300	50
50	60	60	62.8	104.2	13,000	13,000	67.9	103.2	10,300	10,300	72.8	101.3	8,000	8,000	60
50	60	70	56.7	97.7	10,900	10,900	61.7	96.7	8,800	8,800	66.4	94.6	7,000	7,000	70
50	60	80	50.0	89.5	9,400	9,400	55.0	88.4	7,800	7,800	59.5	86.1	6,300	6,300	80
50	60	90	42.6	79.0	8,200	8,200	47.4	77.7	6,900	6,900	51.7	75.0	5,700	5,700	90
50	60	100	33.7	65.0	7,300	7,300	38.4	63.3	6,300	6,300					100
50	75	32.73	80.0	130.8	19,200	19,200									32.73
50	75	35	78.9	130.3	18,800	18,800									35
50	75	40	76.6	128.9	17,200	17,200									40
50	75	50	71.8	125.5	13,400	13,400	77.6	124.5	10,200	10,200					50
50	75	60	66.9	121.2	10,900	10,900	72.6	120.1	8,500	8,500	78.1	118.1	6,500	6,500	60
50	75	70	61.7	115.7	9,200	9,200	67.4	114.6	7,300	7,300	72.8	112.4	5,700	5,700	70
50	75	80	56.3	109.0	7,900	7,900	61.9	107.8	6,400	6,400	67.2	105.5	5,000	5,000	80
50	75	90	50.4	100.7	6,900	6,900	55.9	99.4	5,600	5,700	61.1	96.9	4,500	4,500	90
50	75	100	43.9	90.4	6,100	6,100	49.3	89.0	5,100	5,100	54.3	86.1	4,100	4,100	100
50	75	110	36.4	77.2	5,400	5,400	41.7	75.5	4,600	4,600	46.3	72.0	3,800	3,800	110
50	75	120	27.0	59.0	4,900	4,900									120
60	30	22.82	80.0	97.2	24,000	24,000									22.82
60	30	25	78.6	96.7	24,000	24,000									25
60	30	30	75.4	95.4	24,000	24,000	78.5	94.8	24,000	24,000					30
60	30	35	72.1	93.8	24,000	24,000	75.2	93.2	24,000	24,000	78.2	91.9	20,300	20,300	35
60	30	40	68.7	91.9	24,000	24,000	71.8	91.2	24,000	24,000	74.7	89.9	18,800	18,800	40
60	30	50	61.8	86.9	24,000	24,000	64.8	86.2	23,300	23,300	67.6	84.8	16,600	16,600	50
60	30	60	54.2	80.3	24,000	24,000	57.2	79.5	19,700	19,700	59.8	77.9	15,000	15,000	60
60	30	70	45.9	71.4	21,100	21,100	48.7	70.5	17,200	17,200	51.2	68.7	13,700	13,700	70
60	30	80	36.0	59.2	18,200	18,200	38.7	58.1	15,400	15,400					80
60	45	26.7	80.0	111.7	24,000	24,000									26.7
60	45	30	78.2	110.9	24,000	24,000									30
60	45	35	75.4	109.6	24,000	24,000	79.5	108.8	22,400	22,400					35
60	45	40	72.6	107.9	24,000	24,000	76.6	107.1	19,900	19,900					40
60	45	50	66.8	103.8	21,900	21,900	70.8	102.9	16,300	16,300	74.5	101.2	12,300	12,300	50
60	45	60	60.6	98.4	17,800	17,800	64.6	97.5	13,800	13,900	68.2	95.6	10,700	10,700	60
60	45	70	54.1	91.5	15,000	15,000	58.0	90.5	12,000	12,000	61.5	88.4	9,600	9,600	70
60	45	80	46.9	82.6	13,000	13,000	50.7	81.5	10,700	10,700	54.0	79.2	8,700	8,700	80
60	45	90	38.7	71.0	11,400	11,400	42.3	69.6	9,600	9,600	45.3	66.9	8,000	8,000	90
60	45	100	28.3	54.6	10,200	10,200									100
60	60	30.58	80.0	126.2	24,000	24,000									30.58
60	60	35	77.9	125.1	23,200	23,200									35
60	60	40	75.4	123.7	22,200	22,200									40
60	60	50	70.4	120.2	17,300	17,300	75.2	119.2	12,800	12,800	79.7	117.2	9,500	9,500	50
60	60	60	65.2	115.6	14,100	14,100	69.9	114.5	10,800	10,800	74.4	112.5	8,300	8,300	60
60	60	70	59.8	109.8	11,900	11,900	64.4	108.7	9,400	9,400	68.8	106.5	7,300	7,300	70
60	60	80	54.0	102.7	10,200	10,200	58.6	101.5	8,300	8,300	62.8	99.1	6,600	6,600	80
60	60	90	47.7	93.8	9,000	9,000	52.2	92.5	7,400	7,400	56.2	89.8	6,000	6,000	90
60	60	100	40.6	82.6	8,000	8,000	45.0	81.0	6,700	6,700	48.7	78.0	5,500	5,500	100
60	60	110	32.2	67.7	7,200	7,200	36.3	65.8	6,200	6,200					110

218 HSL 50" x 60" Tube Boom and 24" x 32" Jib Capacities With ABC+A Counterweight
Refer to Jib Notes for Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Load Radius (ft)	Boom Angle (deg)	Tip Height (ft)	5 Degree Offset		Boom Angle (deg)	Tip Height (ft)	15 Degree Offset		Boom Angle (deg)	Tip Height (ft)	25 Degree Offset		Load Radius (ft)
					End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)	
60	75	34.47	80.0	140.7	19,000	19,000									34.47
60	75	35	79.8	140.6	19,000	19,000									35
60	75	40	77.6	139.3	18,300	18,300									40
60	75	50	73.2	136.2	14,300	14,300	78.5	135.1	10,600	10,500					50
60	75	60	68.7	132.2	11,700	11,700	74.0	131.1	8,900	8,900	79.1	128.8	6,700	6,700	60
60	75	70	64.0	127.2	9,800	9,800	69.3	126.1	7,700	7,700	74.3	123.7	5,900	5,900	70
60	75	80	59.1	121.2	8,500	8,500	64.3	119.9	6,700	6,700	69.2	117.5	5,200	5,200	80
60	75	90	53.9	113.9	7,400	7,400	59.0	112.5	6,000	6,000	63.8	109.9	4,700	4,700	90
60	75	100	48.3	105.0	6,600	6,600	53.4	103.5	5,400	5,400	58.0	100.6	4,300	4,300	100
60	75	110	42.1	94.0	5,900	5,900	47.0	92.4	4,900	4,900	51.4	89.1	4,000	4,000	110
60	75	120	34.9	80.1	5,300	5,300	39.7	78.2	4,500	4,500					120
60	75	130	25.8	61.0	4,900	4,900									130
70	30	24.56	80.0	107.1	24,000	24,000									24.56
70	30	25	79.7	107.0	24,000	24,000									25
70	30	30	76.9	105.8	24,000	24,000	79.7	105.1	24,000	24,000					30
70	30	35	73.9	104.4	24,000	24,000	76.7	103.7	24,000	24,000	79.4	102.3	20,800	20,800	35
70	30	40	70.9	102.6	24,000	24,000	73.7	102.0	24,000	24,000	76.4	100.6	19,400	19,400	40
70	30	50	64.8	98.3	24,000	24,000	67.5	97.5	24,000	24,000	70.1	96.1	17,300	17,300	50
70	30	60	58.3	92.5	24,000	24,000	61.0	91.7	21,200	21,300	63.4	90.2	15,600	15,600	60
70	30	70	51.2	85.1	23,500	23,500	53.9	84.2	18,600	18,500	56.1	82.5	14,300	14,300	70
70	30	80	43.4	75.3	20,200	20,200	45.9	74.4	16,500	16,500	48.0	72.4	13,400	13,400	80
70	30	90	34.1	62.2	17,800	17,500	36.4	61.0	15,100	15,100					90
70	45	28.44	80.0	121.6	24,000	24,000									28.44
70	45	30	79.2	121.2	24,000	24,000									30
70	45	35	76.7	120.0	24,000	24,000									35
70	45	40	74.1	118.5	24,000	24,000	77.8	117.6	20,900	20,900					40
70	45	50	68.9	114.8	23,900	23,900	72.5	113.9	17,300	17,300	76.0	112.0	12,700	12,700	50
70	45	60	63.4	109.9	19,500	19,400	67.0	109.0	14,700	14,700	70.4	107.1	11,200	11,200	60
70	45	70	57.7	103.8	16,400	16,400	61.2	102.8	12,800	12,800	64.5	100.8	10,000	10,000	70
70	45	80	51.5	96.2	14,100	14,100	55.0	95.1	11,400	11,400	58.1	92.9	9,100	9,100	80
70	45	90	44.7	86.6	12,400	12,400	48.1	85.4	10,300	10,300	51.0	82.8	8,400	8,400	90
70	45	100	36.8	74.2	11,100	11,100	40.1	72.7	9,400	9,400					100
70	45	110	27.0	56.8	10,100	10,100									110
70	60	32.32	80.0	136.0	23,800	23,800									32.32
70	60	35	78.8	135.4	23,400	23,400									35
70	60	40	76.6	134.1	22,600	22,600									40
70	60	50	72.0	130.9	18,500	18,500	76.4	129.8	13,300	13,300					50
70	60	60	67.3	126.7	15,100	15,100	71.6	125.6	11,400	11,400	75.7	123.4	8,500	8,500	60
70	60	70	62.4	121.5	12,800	12,800	66.7	120.4	9,900	9,900	70.7	118.1	7,600	7,600	70
70	60	80	57.2	115.1	11,000	11,000	61.4	113.9	8,800	8,700	65.3	111.5	6,900	6,900	80
70	60	90	51.7	107.4	9,700	9,700	55.8	106.1	7,900	7,900	59.6	103.4	6,300	6,300	90
70	60	100	45.7	97.8	8,600	8,600	49.7	96.4	7,100	7,100	53.3	93.5	5,800	5,800	100
70	60	110	38.9	85.9	7,800	7,800	42.8	84.2	6,600	6,600	46.2	80.8	5,400	5,400	110
70	60	120	30.8	70.3	7,100	7,100									120
70	75	36.2	80.0	150.5	18,900	18,900									36.2
70	75	40	78.5	149.6	18,400	18,400									40
70	75	50	74.4	146.7	15,200	15,200	79.4	145.6	10,900	10,900					50
70	75	60	70.2	143.1	12,500	12,500	75.2	141.9	9,300	9,300	79.9	139.4	6,800	6,800	60
70	75	70	65.9	138.5	10,500	10,500	70.8	137.3	8,000	8,000	75.5	134.8	6,000	6,000	70
70	75	80	61.5	133.0	9,100	9,100	66.3	131.7	7,100	7,100	70.9	129.1	5,400	5,400	80
70	75	90	56.8	126.4	7,900	7,900	61.6	125.0	6,300	6,300	66.1	122.3	4,900	4,900	90
70	75	100	51.8	118.5	7,000	7,000	56.6	117.1	5,700	5,700	60.9	114.1	4,500	4,500	100
70	75	110	46.4	109.1	6,300	6,300	51.1	107.4	5,200	5,200	55.3	104.2	4,100	4,100	110
70	75	120	40.5	97.5	5,700	5,700	45.0	95.7	4,800	4,800	48.9	92.0	3,900	3,800	120
70	75	130	33.6	83.0	5,200	5,200	37.9	80.8	4,400	4,400					130

218 HSL 50" x 60" Tube Boom and 24" x 32" Jib Capacities With ABC+A Counterweight

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

Boom Length (ft)	Jib Length (ft)	Load Radius (ft)	Boom Angle (deg)	Tip Height (ft)	5 Degree Offset		Boom Angle (deg)	Tip Height (ft)	15 Degree Offset		Boom Angle (deg)	Tip Height (ft)	25 Degree Offset		Load Radius (ft)
					End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)	
80	30	26.29	80.0	116.9	24,000	24,000									26.29
80	30	30	78.1	116.1	24,000	24,000									30
80	30	35	75.4	114.8	24,000	24,000	78.0	114.1	24,000	24,000					35
80	30	40	72.7	113.2	24,000	24,000	75.3	112.5	24,000	24,000	77.7	111.1	20,000	20,000	40
80	30	50	67.2	109.3	24,000	24,000	69.7	108.6	24,000	24,000	72.0	107.1	17,900	17,900	50
80	30	60	61.4	104.2	24,000	24,000	63.9	103.5	22,700	22,700	66.1	101.9	16,200	16,200	60
80	30	70	55.3	97.7	24,000	23,900	57.7	96.9	19,900	19,900	59.9	95.3	14,900	14,900	70
80	30	80	48.7	89.6	22,300	20,100	51.0	88.6	17,700	17,700	53.0	86.8	13,900	13,900	80
80	30	90	41.2	79.1	19,500	17,300	43.5	78.0	16,100	16,100	45.3	75.9	13,100	13,100	90
80	30	100	32.4	65.0	17,500	15,000									100
80	45	30.18	80.0	131.4	24,000	24,000									30.18
80	45	35	77.8	130.3	24,000	24,000									35
80	45	40	75.4	128.9	24,000	24,000	78.8	128.0	21,800	21,800					40
80	45	50	70.6	125.5	24,000	24,000	74.0	124.6	18,100	18,100	77.2	122.7	13,100	13,100	50
80	45	60	65.7	121.2	21,000	21,100	69.0	120.2	15,500	15,500	72.1	118.2	11,600	11,600	60
80	45	70	60.5	115.7	17,700	17,700	63.8	114.7	13,600	13,600	66.8	112.6	10,400	10,400	70
80	45	80	55.1	109.0	15,300	15,300	58.3	107.9	12,100	12,100	61.2	105.7	9,500	9,500	80
80	45	90	49.2	100.7	13,500	13,500	52.4	99.5	10,900	10,900	55.1	97.1	8,800	8,800	90
80	45	100	42.7	90.4	12,000	12,000	45.8	89.1	10,000	10,000	48.3	86.3	8,200	8,200	100
80	45	110	35.2	77.2	10,900	10,900	38.2	75.6	9,300	9,300					110
80	45	120	25.8	59.0	10,000	10,000									120
80	60	34.06	80.0	145.9	23,700	23,700									34.06
80	60	35	79.6	145.7	23,500	23,500									35
80	60	40	77.5	144.5	22,800	22,800									40
80	60	50	73.3	141.5	19,700	19,700	77.4	140.4	13,800	13,900					50
80	60	60	69.0	137.6	16,200	16,200	73.0	136.5	11,900	11,900	76.8	134.2	8,800	8,800	60
80	60	70	64.5	132.9	13,700	13,700	68.5	131.7	10,400	10,400	72.2	129.3	7,800	7,800	70
80	60	80	59.8	127.1	11,800	11,800	63.8	125.9	9,200	9,200	67.4	123.4	7,100	7,100	80
80	60	90	54.9	120.2	10,400	10,400	58.8	118.9	8,300	8,300	62.3	116.2	6,500	6,500	90
80	60	100	49.6	111.9	9,300	9,300	53.5	110.4	7,500	7,500	56.9	107.5	6,000	6,000	100
80	60	110	43.9	101.7	8,400	8,400	47.6	100.1	6,900	6,900	50.8	96.9	5,600	5,600	110
80	60	120	37.4	89.1	7,600	7,600	41.0	87.3	6,400	6,400					120
80	60	130	29.6	72.7	7,000	7,000									130
80	75	37.94	80.0	160.4	18,800	18,800									37.94
80	75	40	79.2	159.9	18,500	18,500									40
80	75	50	75.4	157.2	16,000	16,000									50
80	75	60	71.6	153.8	13,200	13,200	76.2	152.5	9,600	9,600					60
80	75	70	67.6	149.6	11,200	11,200	72.2	148.3	8,400	8,300	76.5	145.7	6,200	6,200	70
80	75	80	63.5	144.5	9,600	9,700	68.0	143.2	7,400	7,400	72.3	140.5	5,600	5,600	80
80	75	90	59.2	138.5	8,500	8,500	63.7	137.1	6,600	6,600	67.9	134.2	5,100	5,100	90
80	75	100	54.7	131.4	7,500	7,500	59.2	129.9	6,000	6,000	63.3	126.9	4,600	4,600	100
80	75	110	50.0	123.0	6,800	6,800	54.3	121.4	5,400	5,400	58.3	118.1	4,300	4,300	110
80	75	120	44.8	113.0	6,100	6,100	49.1	111.2	5,000	5,000	52.9	107.6	4,000	4,000	120
80	75	130	39.0	100.9	5,600	5,600	43.2	98.9	4,700	4,600	46.8	94.8	3,800	3,800	130
80	75	140	32.4	85.7	5,200	5,200	36.4	83.2	4,400	4,400					140

218 HSL 50" x 60" Tube Boom and 24" x 32" Jib Capacities With ABC+A Counterweight
Refer to Jib Notes for Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Load Radius (ft)	Boom Angle (deg)	Tip Height (ft)	5 Degree Offset		Boom Angle (deg)	Tip Height (ft)	15 Degree Offset		Boom Angle (deg)	Tip Height (ft)	25 Degree Offset		Load Radius (ft)
					End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)	
90	30	28.03	80.0	126.8	24,000	24,000									28.03
90	30	30	79.1	126.4	24,000	24,000									30
90	30	35	76.6	125.2	24,000	24,000	79.0	124.5	24,000	24,000					35
90	30	40	74.2	123.7	24,000	24,000	76.5	123.0	24,000	24,000	78.7	121.6	20,400	20,400	40
90	30	50	69.2	120.2	24,000	24,000	71.5	119.5	24,000	24,000	73.6	118.0	18,400	18,400	50
90	30	60	64.0	115.6	24,000	24,000	66.3	114.8	24,000	24,000	68.3	113.3	16,700	16,700	60
90	30	70	58.6	109.9	24,000	23,700	60.8	109.0	21,100	21,100	62.8	107.4	15,400	15,400	70
90	30	80	52.8	102.7	23,500	19,900	55.0	101.8	18,900	18,900	56.8	100.1	14,400	14,400	80
90	30	90	46.5	93.8	20,100	17,000	48.6	92.9	17,100	17,100	50.3	90.9	13,600	13,600	90
90	30	100	39.4	82.6	17,500	14,800	41.4	81.5	15,700	14,900					100
90	30	110	31.0	67.7	15,400	13,000									110
90	45	31.91	80.0	141.3	24,000	24,000									31.91
90	45	35	78.7	140.6	24,000	24,000									35
90	45	40	76.5	139.3	24,000	24,000	79.7	138.4	22,600	22,600					40
90	45	50	72.1	136.2	24,000	24,000	75.3	135.2	18,900	18,900	78.2	133.3	13,400	13,400	50
90	45	60	67.6	132.2	22,600	22,600	70.7	131.2	16,300	16,300	73.6	129.2	11,900	12,000	60
90	45	70	62.9	127.3	19,100	19,100	66.0	126.2	14,300	14,300	68.8	124.1	10,800	10,800	70
90	45	80	58.0	121.2	16,500	16,500	61.0	120.1	12,700	12,700	63.8	117.9	9,900	9,900	80
90	45	90	52.8	113.9	14,500	14,500	55.8	112.7	11,500	11,500	58.4	110.3	9,100	9,100	90
90	45	100	47.2	105.0	13,000	13,000	50.1	103.7	10,600	10,500	52.6	101.1	8,500	8,500	100
90	45	110	41.0	94.1	11,700	11,700	43.8	92.6	9,800	9,800	46.1	89.7	8,000	8,100	110
90	45	120	33.8	80.2	10,700	10,700	36.5	78.4	9,100	9,100					120
90	60	35.79	80.0	155.7	23,500	23,500									35.79
90	60	40	78.4	154.8	22,900	22,900									40
90	60	50	74.4	152.0	20,900	20,900	78.3	150.8	14,300	14,300					50
90	60	60	70.4	148.5	17,200	17,200	74.2	147.3	12,300	12,300	77.8	144.9	9,000	9,000	60
90	60	70	66.3	144.1	14,600	14,600	70.1	142.9	10,800	10,800	73.6	140.4	8,100	8,100	70
90	60	80	62.0	138.8	12,600	12,600	65.7	137.5	9,600	9,600	69.2	135.0	7,300	7,300	80
90	60	90	57.6	132.5	11,100	11,100	61.2	131.2	8,700	8,700	64.6	128.5	6,700	6,700	90
90	60	100	52.9	125.1	9,900	9,900	56.5	123.6	7,900	7,900	59.7	120.8	6,200	6,200	100
90	60	110	47.8	116.2	8,900	9,000	51.3	114.6	7,300	7,300	54.4	111.5	5,800	5,800	110
90	60	120	42.3	105.5	8,100	8,200	45.7	103.7	6,700	6,700	48.6	100.3	5,500	5,500	120
90	60	130	36.0	92.3	7,500	7,500	39.3	90.3	6,300	6,300					130
90	60	140	28.5	75.1	6,900	6,900									140
90	75	39.68	80.0	170.2	18,600	18,600									39.68
90	75	40	79.9	170.2	18,600	18,600									40
90	75	50	76.3	167.6	16,900	16,900									50
90	75	60	72.7	164.4	13,900	13,900	77.1	163.1	9,900	9,900					60
90	75	70	69.0	160.5	11,800	11,800	73.3	159.2	8,700	8,700	77.4	156.4	6,300	6,300	70
90	75	80	65.2	155.8	10,200	10,200	69.5	154.4	7,700	7,700	73.5	151.6	5,700	5,700	80
90	75	90	61.3	150.3	9,000	9,000	65.5	148.8	6,900	6,900	69.5	145.9	5,200	5,200	90
90	75	100	57.2	143.8	8,000	8,000	61.4	142.3	6,200	6,200	65.2	139.2	4,800	4,800	100
90	75	110	52.9	136.2	7,200	7,200	57.0	134.6	5,700	5,700	60.8	131.3	4,400	4,400	110
90	75	120	48.3	127.3	6,500	6,500	52.4	125.6	5,300	5,300	56.0	122.1	4,100	4,100	120
90	75	130	43.3	116.8	6,000	6,000	47.3	114.9	4,900	4,900	50.7	111.0	3,900	3,900	130
90	75	140	37.7	104.1	5,500	5,500	41.6	101.9	4,600	4,600					140
90	75	150	31.3	88.3	5,100	5,100									150

218 HSL 50" x 60" Tube Boom and 24" x 32" Jib Capacities With ABC+A Counterweight
Refer to Jib Notes for Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Load Radius (ft)	Boom Angle (deg)	Tip Height (ft)	5 Degree Offset		Boom Angle (deg)	Tip Height (ft)	15 Degree Offset		Boom Angle (deg)	Tip Height (ft)	25 Degree Offset		Load Radius (ft)
					End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)	
100	30	29.77	80.0	136.6	24,000	24,000									29.77
100	30	30	79.9	136.6	24,000	24,000									30
100	30	35	77.7	135.5	24,000	24,000	79.9	134.7	24,000	24,000					35
100	30	40	75.4	134.2	24,000	24,000	77.6	133.4	24,000	24,000	79.6	132.0	20,800	20,800	40
100	30	50	70.8	130.9	24,000	24,000	73.0	130.2	24,000	24,000	75.0	128.7	18,800	18,800	50
100	30	60	66.1	126.7	24,000	24,000	68.2	126.0	24,000	24,000	70.2	124.4	17,200	17,200	60
100	30	70	61.2	121.5	24,000	23,500	63.3	120.7	22,400	22,400	65.2	119.1	15,900	15,900	70
100	30	80	56.1	115.2	23,300	19,700	58.1	114.3	20,000	19,900	59.9	112.6	14,900	14,900	80
100	30	90	50.5	107.4	19,900	16,800	52.5	106.5	18,100	17,000	54.2	104.6	14,000	14,000	90
100	30	100	44.5	97.9	17,300	14,600	46.5	96.9	16,600	14,700	48.0	94.8	13,300	13,300	100
100	30	110	37.8	86.0	15,200	12,800	39.6	84.8	15,300	12,900					110
100	30	120	29.7	70.3	13,500	11,300									120
100	45	33.65	80.0	151.1	24,000	24,000									33.65
100	45	35	79.5	150.8	24,000	24,000									35
100	45	40	77.5	149.7	24,000	24,000									40
100	45	50	73.4	146.8	24,000	24,000	76.3	145.8	19,600	19,600	79.1	143.8	13,700	13,700	50
100	45	60	69.2	143.1	24,000	24,000	72.1	142.1	17,000	17,000	74.8	140.0	12,300	12,300	60
100	45	70	64.9	138.5	20,400	20,400	67.8	137.5	14,900	14,900	70.4	135.4	11,100	11,100	70
100	45	80	60.5	133.0	17,700	17,700	63.3	131.9	13,400	13,400	65.9	129.7	10,200	10,200	80
100	45	90	55.8	126.4	15,600	15,600	58.6	125.3	12,100	12,100	61.0	122.9	9,400	9,400	90
100	45	100	50.8	118.6	13,900	13,900	53.5	117.3	11,100	11,100	55.9	114.8	8,800	8,800	100
100	45	110	45.4	109.1	12,600	12,600	48.1	107.7	10,200	10,200	50.3	105.0	8,300	8,300	110
100	45	120	39.5	97.6	11,500	11,400	42.0	96.0	9,600	9,600					120
100	45	130	32.6	83.0	10,600	10,200									130
100	60	37.53	80.0	165.6	23,200	23,200									37.53
100	60	40	79.1	165.1	22,900	22,900									40
100	60	50	75.4	162.5	21,700	21,700	79.0	161.3	14,700	14,700					50
100	60	60	71.7	159.1	18,200	18,200	75.3	157.9	12,800	12,800	78.6	155.5	9,200	9,200	60
100	60	70	67.9	155.1	15,500	15,500	71.4	153.8	11,200	11,200	74.7	151.3	8,300	8,300	70
100	60	80	63.9	150.2	13,400	13,400	67.4	148.9	10,000	10,000	70.6	146.3	7,500	7,500	80
100	60	90	59.8	144.5	11,800	11,800	63.3	143.1	9,100	9,100	66.4	140.4	6,900	6,900	90
100	60	100	55.6	137.7	10,500	10,500	59.0	136.3	8,300	8,300	62.0	133.4	6,400	6,400	100
100	60	110	51.0	129.7	9,500	9,500	54.4	128.2	7,600	7,600	57.3	125.1	6,000	6,000	110
100	60	120	46.2	120.3	8,700	8,700	49.4	118.6	7,100	7,100	52.2	115.3	5,700	5,700	120
100	60	130	40.8	109.0	8,000	8,000	44.0	107.2	6,600	6,600	46.6	103.5	5,400	5,400	130
100	60	140	34.8	95.2	7,400	7,400	37.8	93.1	6,200	6,200					140
100	60	150	27.5	77.4	6,900	6,900									150
100	75	41.41	80.0	180.1	18,500	18,500									41.41
100	75	50	77.1	178.0	17,600	17,600									50
100	75	60	73.7	175.0	14,600	14,600	77.8	173.6	10,200	10,200					60
100	75	70	70.3	171.4	12,400	12,400	74.4	169.9	8,900	8,900	78.2	167.1	6,500	6,500	70
100	75	80	66.7	167.0	10,800	10,800	70.8	165.5	8,000	8,000	74.6	162.6	5,900	5,900	80
100	75	90	63.1	161.8	9,500	9,500	67.1	160.3	7,200	7,200	70.8	157.3	5,400	5,300	90
100	75	100	59.3	155.9	8,500	8,500	63.3	154.3	6,500	6,500	66.9	151.2	4,900	4,900	100
100	75	110	55.4	148.9	7,600	7,600	59.3	147.3	6,000	5,900	62.8	144.0	4,600	4,600	110
100	75	120	51.2	140.9	6,900	6,900	55.1	139.1	5,500	5,500	58.5	135.6	4,300	4,300	120
100	75	130	46.8	131.5	6,300	6,300	50.6	129.6	5,100	5,100	53.9	125.8	4,000	4,000	130
100	75	140	41.9	120.5	5,800	5,800	45.6	118.4	4,800	4,800	48.8	114.2	3,800	3,800	140
100	75	150	36.5	107.3	5,400	5,400	40.2	104.9	4,500	4,500					150
100	75	160	30.3	90.8	5,000	5,000									160

218 HSL 50" x 60" Tube Boom and 24" x 32" Jib Capacities With ABC+A Counterweight
Refer to Jib Notes for Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Load Radius (ft)	Boom Angle (deg)	Tip Height (ft)	5 Degree Offset		Boom Angle (deg)	Tip Height (ft)	15 Degree Offset		Boom Angle (deg)	Tip Height (ft)	25 Degree Offset		Load Radius (ft)
					End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)	
110	30	31.5	80.0	146.5	24,000	24,000									31.5
110	30	35	78.6	145.7	24,000	24,000									35
110	30	40	76.5	144.5	24,000	24,000	78.5	143.8	24,000	24,000					40
110	30	50	72.3	141.5	24,000	24,000	74.3	140.8	24,000	24,000	76.1	139.3	19,200	19,200	50
110	30	60	67.9	137.7	24,000	24,000	69.9	136.9	24,000	24,000	71.7	135.4	17,700	17,700	60
110	30	70	63.4	133.0	24,000	23,300	65.4	132.1	23,500	23,500	67.1	130.5	16,400	16,400	70
110	30	80	58.8	127.2	23,100	19,500	60.7	126.3	21,100	19,700	62.4	124.6	15,300	15,300	80
110	30	90	53.8	120.3	19,700	16,600	55.7	119.4	19,100	16,800	57.3	117.6	14,400	14,400	90
110	30	100	48.6	111.9	17,100	14,400	50.4	110.9	17,200	14,500	51.9	109.0	13,700	13,700	100
110	30	110	42.8	101.8	15,000	12,600	44.6	100.7	15,100	12,700	46.0	98.5	13,100	12,700	110
110	30	120	36.3	89.2	13,200	11,100	38.0	88.0	13,300	11,100					120
110	30	130	28.6	72.8	11,800	9,800									130
110	45	35.38	80.0	160.9	24,000	24,000									35.38
110	45	40	78.3	159.9	24,000	24,000									40
110	45	50	74.5	157.3	24,000	24,000	77.2	156.2	20,300	20,300	79.8	154.2	14,000	14,000	50
110	45	60	70.6	153.8	24,000	24,000	73.3	152.8	17,600	17,600	75.9	150.7	12,600	12,600	60
110	45	70	66.6	149.6	21,800	21,800	69.3	148.6	15,600	15,600	71.8	146.4	11,400	11,400	70
110	45	80	62.5	144.6	18,800	18,800	65.2	143.5	14,000	14,000	67.6	141.2	10,500	10,500	80
110	45	90	58.3	138.6	16,600	16,600	60.9	137.4	12,700	12,700	63.2	135.1	9,800	9,800	90
110	45	100	53.8	131.4	14,800	14,500	56.4	130.2	11,600	11,600	58.6	127.7	9,100	9,100	100
110	45	110	49.0	123.0	13,400	12,700	51.5	121.7	10,700	10,700	53.7	119.1	8,600	8,600	110
110	45	120	43.8	113.0	12,200	11,200	46.3	111.6	10,000	10,000	48.3	108.7	8,200	8,200	120
110	45	130	38.1	100.9	11,300	10,000	40.5	99.3	9,400	9,400					130
110	45	140	31.4	85.7	10,400	8,900									140
110	60	39.27	80.0	175.4	23,000	23,000									39.27
110	60	40	79.7	175.3	22,900	22,900									40
110	60	50	76.3	172.8	21,800	21,800	79.7	171.6	15,100	15,100					50
110	60	60	72.8	169.8	19,200	19,200	76.2	168.5	13,200	13,200	79.3	166.0	9,300	9,300	60
110	60	70	69.2	166.0	16,300	16,300	72.6	164.7	11,600	11,600	75.7	162.1	8,400	8,400	70
110	60	80	65.6	161.4	14,200	14,200	68.9	160.1	10,400	10,400	71.9	157.5	7,700	7,700	80
110	60	90	61.8	156.1	12,500	12,500	65.1	154.7	9,400	9,400	68.0	152.0	7,100	7,100	90
110	60	100	57.9	149.9	11,200	11,200	61.1	148.5	8,600	8,600	64.0	145.6	6,600	6,600	100
110	60	110	53.7	142.6	10,100	10,100	56.9	141.1	7,900	7,900	59.7	138.1	6,200	6,200	110
110	60	120	49.4	134.2	9,200	9,200	52.5	132.6	7,400	7,400	55.2	129.3	5,900	5,800	120
110	60	130	44.7	124.3	8,400	8,400	47.7	122.5	6,900	6,900	50.3	119.0	5,600	5,600	130
110	60	140	39.5	112.5	7,800	7,800	42.5	110.6	6,500	6,500					140
110	60	150	33.7	98.1	7,300	7,300	36.5	95.9	6,200	6,200					150
110	60	160	26.6	79.7	6,800	6,800									160
110	75	43.15	80.0	189.9	18,300	18,300									43.15
110	75	50	77.8	188.3	17,700	17,700									50
110	75	60	74.6	185.5	15,300	15,300	78.5	184.1	10,400	10,400					60
110	75	70	71.4	182.1	13,100	13,100	75.3	180.6	9,200	9,200	78.9	177.7	6,600	6,600	70
110	75	80	68.1	178.0	11,300	11,300	71.9	176.5	8,200	8,200	75.5	173.5	6,000	6,000	80
110	75	90	64.7	173.2	10,000	10,000	68.5	171.6	7,400	7,400	72.0	168.6	5,500	5,500	90
110	75	100	61.2	167.6	8,900	8,900	64.9	166.0	6,800	6,700	68.4	162.8	5,100	5,100	100
110	75	110	57.5	161.2	8,000	8,000	61.2	159.5	6,200	6,200	64.6	156.2	4,700	4,700	110
110	75	120	53.7	153.8	7,300	7,300	57.4	152.1	5,700	5,700	60.7	148.6	4,400	4,400	120
110	75	130	49.7	145.3	6,700	6,700	53.3	143.5	5,300	5,300	56.5	139.8	4,100	4,100	130
110	75	140	45.4	135.5	6,100	6,200	48.9	133.5	5,000	5,000	52.0	129.5	3,900	3,900	140
110	75	150	40.7	124.0	5,700	5,700	44.2	121.8	4,700	4,700	47.0	117.4	3,700	3,700	150
110	75	160	35.5	110.3	5,300	5,300	38.8	107.8	4,400	4,400					160
110	75	170	29.4	93.3	5,000	5,000									170

218 HSL 50" x 60" Tube Boom and 24" x 32" Jib Capacities With ABC+A Counterweight
Refer to Jib Notes for Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Load Radius (ft)	Boom Angle (deg)	Tip Height (ft)	5 Degree Offset		Boom Angle (deg)	Tip Height (ft)	15 Degree Offset		Boom Angle (deg)	Tip Height (ft)	25 Degree Offset		Load Radius (ft)
					End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)	
120	30	33.24	80.0	156.3	24,000	24,000									33.24
120	30	35	79.3	156.0	24,000	24,000									35
120	30	40	77.4	154.8	24,000	24,000	79.3	154.1	24,000	24,000					40
120	30	50	73.5	152.1	24,000	24,000	75.3	151.3	24,000	24,000	77.1	149.8	19,600	19,600	50
120	30	60	69.5	148.5	24,000	24,000	71.3	147.7	24,000	24,000	73.0	146.2	18,100	18,100	60
120	30	70	65.3	144.1	24,000	23,000	67.2	143.3	24,000	23,300	68.8	141.7	16,800	16,800	70
120	30	80	61.1	138.9	22,900	19,300	62.9	138.0	22,100	19,500	64.5	136.3	15,700	15,700	80
120	30	90	56.6	132.6	19,500	16,400	58.4	131.7	19,700	16,600	59.9	129.9	14,800	14,800	90
120	30	100	51.9	125.1	16,900	14,100	53.6	124.2	17,000	14,300	55.1	122.3	14,100	14,100	100
120	30	110	46.8	116.2	14,800	12,300	48.5	115.2	14,900	12,500	49.9	113.2	13,500	12,600	110
120	30	120	41.3	105.5	13,000	10,800	42.9	104.4	13,100	10,900					120
120	30	130	35.0	92.3	11,600	9,600	36.6	91.0	11,700	9,700					130
120	30	140	27.5	75.2	10,400	8,500									140
120	45	37.12	80.0	170.8	24,000	24,000									37.12
120	45	40	79.0	170.2	24,000	24,000									40
120	45	50	75.4	167.7	24,000	24,000	78.0	166.6	21,000	21,000					50
120	45	60	71.8	164.5	24,000	24,000	74.4	163.4	18,300	18,300	76.8	161.3	12,900	12,900	60
120	45	70	68.1	160.6	23,100	23,100	70.7	159.5	16,200	16,200	73.0	157.3	11,700	11,700	70
120	45	80	64.3	155.9	20,000	19,400	66.8	154.8	14,500	14,500	69.1	152.5	10,800	10,800	80
120	45	90	60.4	150.3	17,600	16,600	62.9	149.2	13,200	13,200	65.1	146.9	10,000	10,000	90
120	45	100	56.3	143.9	15,700	14,300	58.8	142.6	12,100	12,100	60.9	140.2	9,400	9,400	100
120	45	110	52.0	136.3	14,200	12,500	54.4	135.0	11,200	11,200	56.5	132.4	8,900	8,900	110
120	45	120	47.4	127.4	13,000	11,000	49.7	126.0	10,500	10,500	51.7	123.2	8,400	8,400	120
120	45	130	42.4	116.8	11,700	9,700	44.7	115.3	9,800	9,800	46.5	112.3	8,000	8,000	130
120	45	140	36.8	104.2	10,500	8,700	39.0	102.4	9,300	8,800					140
120	45	150	30.4	88.3	9,400	7,800									150
120	60	41	80.0	185.3	22,700	22,700									41
120	60	50	77.1	183.2	21,800	21,800									50
120	60	60	73.8	180.3	20,200	20,200	77.0	179.0	13,500	13,500					60
120	60	70	70.5	176.7	17,200	17,200	73.6	175.4	12,000	12,000	76.5	172.8	8,600	8,600	70
120	60	80	67.0	172.5	14,900	14,900	70.1	171.2	10,800	10,800	73.0	168.5	7,900	7,900	80
120	60	90	63.5	167.6	13,200	13,200	66.6	166.2	9,800	9,800	69.4	163.4	7,300	7,300	90
120	60	100	59.9	161.8	11,800	11,800	62.9	160.3	9,000	9,000	65.7	157.5	6,800	6,800	100
120	60	110	56.1	155.1	10,700	10,600	59.1	153.6	8,300	8,300	61.8	150.6	6,400	6,400	110
120	60	120	52.1	147.4	9,700	9,700	55.1	145.8	7,700	7,700	57.7	142.7	6,000	6,000	120
120	60	130	47.9	138.5	8,900	8,900	50.8	136.8	7,200	7,200	53.3	133.4	5,700	5,700	130
120	60	140	43.3	128.1	8,200	8,200	46.2	126.3	6,700	6,700	48.5	122.6	5,500	5,500	140
120	60	150	38.3	115.9	7,700	7,700	41.1	113.8	6,400	6,400					150
120	60	160	32.6	101.0	7,200	7,100	35.3	98.6	6,100	6,100					160
120	60	170	25.8	81.8	6,800	6,400									170
120	75	44.89	80.0	199.8	18,100	18,100									44.89
120	75	50	78.5	198.6	17,700	17,700									50
120	75	60	75.5	196.0	16,000	16,000	79.1	194.5	10,700	10,700					60
120	75	70	72.4	192.7	13,700	13,700	76.0	191.2	9,500	9,500	79.5	188.2	6,700	6,700	70
120	75	80	69.3	188.9	11,900	11,900	72.9	187.3	8,500	8,500	76.3	184.3	6,100	6,100	80
120	75	90	66.1	184.4	10,500	10,500	69.7	182.8	7,700	7,700	73.0	179.7	5,600	5,600	90
120	75	100	62.8	179.2	9,400	9,400	66.4	177.5	7,000	7,000	69.7	174.3	5,200	5,200	100
120	75	110	59.4	173.2	8,400	8,400	62.9	171.5	6,400	6,400	66.2	168.2	4,800	4,800	110
120	75	120	55.9	166.4	7,700	7,700	59.4	164.6	5,900	5,900	62.5	161.1	4,500	4,500	120
120	75	130	52.2	158.6	7,000	7,000	55.6	156.8	5,500	5,500	58.7	153.1	4,200	4,200	130
120	75	140	48.3	149.7	6,500	6,500	51.7	147.7	5,200	5,200	54.6	143.8	4,000	4,000	140
120	75	150	44.1	139.4	6,000	6,000	47.4	137.3	4,800	4,800	50.3	133.1	3,800	3,800	150
120	75	160	39.5	127.5	5,600	5,600	42.8	125.1	4,600	4,600	45.5	120.4	3,700	3,700	160
120	75	170	34.5	113.2	5,200	5,200	37.6	110.6	4,400	4,400					170
120	75	180	28.6	95.7	4,900	4,900									180

218 HSL 50" x 60" Tube Boom and 24" x 32" Jib Capacities With ABC+A Counterweight

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

Boom Length (ft)	Jib Length (ft)	Load Radius (ft)	Boom Angle (deg)	Tip Height (ft)	5 Degree Offset		Boom Angle (deg)	Tip Height (ft)	15 Degree Offset		Boom Angle (deg)	Tip Height (ft)	25 Degree Offset		Load Radius (ft)
					End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)	
130	30	34.98	80.0	166.2	24,000	24,000									34.98
130	30	40	78.2	165.1	24,000	24,000									40
130	30	50	74.5	162.5	24,000	24,000	76.3	161.7	24,000	24,000	77.9	160.2	19,900	19,900	50
130	30	60	70.8	159.2	24,000	24,000	72.5	158.4	24,000	24,000	74.1	156.8	18,400	18,400	60
130	30	70	67.0	155.1	24,000	22,800	68.7	154.3	24,000	23,100	70.2	152.7	17,200	17,200	70
130	30	80	63.0	150.3	22,700	19,000	64.7	149.4	22,900	19,300	66.2	147.8	16,100	16,100	80
130	30	90	58.9	144.5	19,300	16,200	60.6	143.6	19,500	16,400	62.1	141.9	15,200	15,200	90
130	30	100	54.6	137.7	16,600	13,900	56.3	136.8	16,800	14,100	57.7	135.0	14,500	14,200	100
130	30	110	50.1	129.8	14,500	12,100	51.7	128.8	14,700	12,200	53.1	126.8	13,800	12,400	110
130	30	120	45.2	120.4	12,800	10,600	46.8	119.3	12,900	10,700	48.1	117.2	13,000	10,800	120
130	30	130	39.9	109.1	11,400	9,400	41.4	107.9	11,400	9,500					130
130	30	140	33.9	95.3	10,100	8,300	35.3	94.0	10,200	8,400					140
130	30	150	26.6	77.5	8,900	7,400									150
130	45	38.86	80.0	180.6	24,000	24,000									38.86
130	45	40	79.6	180.4	24,000	24,000									40
130	45	50	76.3	178.0	24,000	24,000	78.7	177.0	21,600	21,600					50
130	45	60	72.9	175.1	24,000	24,000	75.3	174.0	18,900	18,800	77.6	171.8	13,100	13,100	60
130	45	70	69.4	171.4	24,000	23,000	71.8	170.3	16,800	16,800	74.1	168.1	12,000	12,000	70
130	45	80	65.9	167.0	21,100	19,200	68.3	165.9	15,100	15,100	70.4	163.6	11,100	11,100	80
130	45	90	62.3	161.9	18,600	16,300	64.6	160.7	13,700	13,700	66.7	158.4	10,300	10,300	90
130	45	100	58.5	155.9	16,600	14,100	60.8	154.7	12,600	12,600	62.8	152.3	9,700	9,700	100
130	45	110	54.5	149.0	14,700	12,300	56.8	147.7	11,700	11,700	58.8	145.1	9,100	9,100	110
130	45	120	50.4	140.9	12,900	10,800	52.6	139.6	10,900	10,900	54.5	136.9	8,600	8,600	120
130	45	130	45.9	131.5	11,500	9,500	48.1	130.1	10,200	9,700	49.9	127.2	8,200	8,300	130
130	45	140	41.1	120.5	10,300	8,400	43.2	118.9	9,600	8,600					140
130	45	150	35.7	107.3	9,100	7,500	37.8	105.5	9,200	7,600					150
130	45	160	29.5	90.9	8,100	6,700									160
130	60	42.74	80.0	195.1	22,400	22,400									42.74
130	60	50	77.8	193.5	21,700	21,700									50
130	60	60	74.7	190.8	20,800	20,800	77.7	189.4	13,900	13,900					60
130	60	70	71.5	187.4	18,000	18,000	74.5	186.1	12,400	12,400	77.3	183.4	8,800	8,800	70
130	60	80	68.3	183.4	15,700	15,700	71.3	182.1	11,100	11,100	74.0	179.4	8,100	8,100	80
130	60	90	65.0	178.8	13,800	13,800	67.9	177.4	10,100	10,100	70.6	174.6	7,500	7,500	90
130	60	100	61.6	173.4	12,400	12,400	64.5	172.0	9,300	9,300	67.1	169.1	7,000	7,000	100
130	60	110	58.1	167.3	11,200	11,200	61.0	165.7	8,600	8,600	63.5	162.7	6,500	6,500	110
130	60	120	54.4	160.2	10,200	10,200	57.3	158.6	8,000	8,000	59.8	155.4	6,200	6,200	120
130	60	130	50.6	152.1	9,400	9,400	53.4	150.4	7,400	7,400	55.8	147.1	5,900	5,900	130
130	60	140	46.5	142.7	8,700	8,500	49.2	140.9	7,000	7,000	51.5	137.4	5,600	5,600	140
130	60	150	42.1	131.9	8,100	7,600	44.7	130.0	6,600	6,600	46.9	126.0	5,400	5,400	150
130	60	160	37.2	119.1	7,600	6,800	39.8	117.0	6,300	6,300					160
130	60	170	31.7	103.7	7,100	6,100									170
130	60	180	25.1	83.9	6,600	5,500									180

218 HSL 50" x 60" Tube Boom and 24" x 32" Jib Capacities With ABC+A Counterweight

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

Boom Length (ft)	Jib Length (ft)	Load Radius (ft)	Boom Angle (deg)	Tip Height (ft)	5 Degree Offset		Boom Angle (deg)	Tip Height (ft)	15 Degree Offset		Boom Angle (deg)	Tip Height (ft)	25 Degree Offset		Load Radius (ft)
					End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)	
130	75	46.62	80.0	209.6	17,900	17,900									46.62
130	75	50	79.0	208.9	17,600	17,600									50
130	75	60	76.2	206.4	16,700	16,700	79.7	204.8	10,900	10,900					60
130	75	70	73.3	203.3	14,200	14,200	76.8	201.8	9,700	9,700					70
130	75	80	70.3	199.6	12,400	12,400	73.8	198.1	8,700	8,700	77.0	195.0	6,200	6,200	80
130	75	90	67.3	195.4	11,000	11,000	70.7	193.8	7,900	7,900	74.0	190.6	5,700	5,700	90
130	75	100	64.2	190.5	9,800	9,800	67.6	188.9	7,200	7,200	70.8	185.6	5,300	5,300	100
130	75	110	61.0	184.9	8,800	8,800	64.4	183.2	6,600	6,600	67.5	179.9	4,900	4,900	110
130	75	120	57.8	178.6	8,000	8,100	61.1	176.8	6,100	6,100	64.1	173.3	4,600	4,600	120
130	75	130	54.3	171.4	7,400	7,400	57.6	169.5	5,700	5,700	60.6	165.9	4,400	4,400	130
130	75	140	50.8	163.2	6,800	6,800	54.0	161.3	5,300	5,300	56.9	157.4	4,100	4,100	140
130	75	150	47.0	153.9	6,300	6,300	50.2	151.8	5,000	5,000	52.9	147.7	3,900	3,900	150
130	75	160	42.9	143.2	5,900	5,900	46.1	141.0	4,700	4,700	48.7	136.5	3,800	3,800	160
130	75	170	38.5	130.8	5,500	5,500	41.6	128.4	4,500	4,500					170
130	75	180	33.6	116.1	5,200	5,200	36.5	113.3	4,300	4,300					180
130	75	190	27.8	98.0	4,900	4,900									190
140	30	36.71	80.0	176.0	24,000	24,000									36.71
140	30	40	78.9	175.3	24,000	24,000									40
140	30	50	75.4	172.9	24,000	24,000	77.1	172.1	24,000	24,000	78.7	170.6	20,300	20,300	50
140	30	60	72.0	169.8	24,000	24,000	73.6	169.0	24,000	24,000	75.1	167.4	18,800	18,800	60
140	30	70	68.4	166.0	24,000	22,600	70.0	165.2	24,000	22,900	71.5	163.6	17,500	17,500	70
140	30	80	64.7	161.5	22,400	18,800	66.3	160.7	22,700	19,100	67.8	159.0	16,500	16,500	80
140	30	90	60.9	156.2	19,100	16,000	62.5	155.3	19,300	16,200	63.9	153.6	15,600	15,600	90
140	30	100	57.0	150.0	16,400	13,700	58.6	149.1	16,600	13,900	59.9	147.2	14,800	14,000	100
140	30	110	52.9	142.7	14,300	11,900	54.4	141.8	14,500	12,000	55.7	139.9	14,100	12,200	110
140	30	120	48.5	134.3	12,600	10,400	50.0	133.2	12,700	10,500	51.2	131.2	12,800	10,600	120
140	30	130	43.8	124.4	11,100	9,100	45.3	123.3	11,200	9,200	46.4	121.1	11,300	9,300	130
140	30	140	38.7	112.6	9,700	8,100	40.1	111.4	9,800	8,200					140
140	30	150	32.8	98.2	8,600	7,200									150
140	30	160	25.8	79.8	7,600	6,400									160
140	45	40.59	80.0	190.5	24,000	24,000									40.59
140	45	50	77.0	188.4	24,000	24,000	79.4	187.3	22,100	22,100					50
140	45	60	73.8	185.6	24,000	24,000	76.1	184.5	19,400	19,400	78.3	182.3	13,400	13,400	60
140	45	70	70.6	182.1	24,000	22,800	72.9	181.0	17,300	17,300	75.0	178.8	12,300	12,300	70
140	45	80	67.3	178.0	22,100	19,000	69.5	176.9	15,600	15,600	71.6	174.6	11,300	11,300	80
140	45	90	63.9	173.2	19,200	16,100	66.1	172.1	14,200	14,200	68.1	169.7	10,600	10,600	90
140	45	100	60.4	167.7	16,600	13,900	62.6	166.5	13,100	13,100	64.5	164.0	9,900	9,900	100
140	45	110	56.7	161.3	14,500	12,000	58.9	160.0	12,100	12,100	60.8	157.5	9,300	9,400	110
140	45	120	52.9	153.9	12,700	10,500	55.0	152.6	11,300	10,700	56.9	149.9	8,900	8,900	120
140	45	130	48.9	145.4	11,300	9,300	51.0	144.0	10,600	9,500	52.7	141.2	8,500	8,500	130
140	45	140	44.6	135.6	9,900	8,200	46.6	134.1	10,000	8,400	48.3	131.0	8,100	8,100	140
140	45	150	39.9	124.1	8,800	7,300	41.9	122.4	8,900	7,400					150
140	45	160	34.7	110.4	7,700	6,500	36.6	108.5	7,900	6,600					160
140	45	170	28.6	93.4	6,900	5,800									170

218 HSL 50" x 60" Tube Boom and 24" x 32" Jib Capacities With ABC+A Counterweight
Refer to Jib Notes for Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Load Radius (ft)	Boom Angle (deg)	Tip Height (ft)	5 Degree Offset		Boom Angle (deg)	Tip Height (ft)	15 Degree Offset		Boom Angle (deg)	Tip Height (ft)	25 Degree Offset		Load Radius (ft)
					End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)	
140	60	44.48	80.0	205.0	22,100	22,100									44.48
140	60	50	78.4	203.8	21,600	21,600									50
140	60	60	75.5	201.2	20,800	20,800	78.3	199.8	14,200	14,200					60
140	60	70	72.5	198.0	18,800	18,800	75.3	196.7	12,700	12,700	78.0	194.0	8,900	8,900	70
140	60	80	69.4	194.3	16,400	16,400	72.3	192.9	11,500	11,500	74.9	190.1	8,200	8,200	80
140	60	90	66.3	189.9	14,500	14,500	69.1	188.5	10,400	10,500	71.7	185.7	7,600	7,600	90
140	60	100	63.2	184.9	13,000	13,000	65.9	183.4	9,600	9,600	68.4	180.5	7,100	7,100	100
140	60	110	59.9	179.1	11,800	11,800	62.6	177.6	8,900	8,900	65.1	174.6	6,700	6,700	110
140	60	120	56.5	172.5	10,700	10,600	59.2	171.0	8,200	8,200	61.6	167.8	6,300	6,300	120
140	60	130	52.9	165.1	9,900	9,400	55.6	163.4	7,700	7,700	57.9	160.1	6,000	6,000	130
140	60	140	49.2	156.5	9,100	8,300	51.8	154.8	7,200	7,300	54.1	151.3	5,700	5,700	140
140	60	150	45.2	146.8	8,500	7,400	47.8	144.9	6,900	6,900	49.9	141.2	5,500	5,500	150
140	60	160	40.9	135.5	7,900	6,600	43.4	133.5	6,500	6,500	45.4	129.4	5,300	5,300	160
140	60	170	36.2	122.3	7,000	5,900	38.7	120.0	6,200	6,000					170
140	60	180	30.9	106.3	6,200	5,300									180
140	75	48.36	80.0	219.5	17,700	17,700									48.36
140	75	50	79.6	219.1	17,600	17,600									50
140	75	60	76.8	216.7	16,900	16,900									60
140	75	70	74.1	213.8	14,800	14,800	77.4	212.2	9,900	9,900					70
140	75	80	71.3	210.3	12,900	12,900	74.6	208.8	8,900	8,900	77.7	205.6	6,300	6,300	80
140	75	90	68.4	206.3	11,400	11,400	71.7	204.7	8,100	8,100	74.8	201.5	5,800	5,800	90
140	75	100	65.5	201.7	10,200	10,200	68.8	200.1	7,400	7,400	71.8	196.7	5,400	5,400	100
140	75	110	62.5	196.5	9,200	9,200	65.8	194.8	6,800	6,800	68.7	191.3	5,000	5,000	110
140	75	120	59.4	190.5	8,400	8,400	62.6	188.8	6,300	6,300	65.5	185.2	4,700	4,700	120
140	75	130	56.3	183.8	7,700	7,700	59.4	182.0	5,900	5,900	62.3	178.3	4,500	4,500	130
140	75	140	52.9	176.2	7,100	7,100	56.1	174.3	5,500	5,500	58.8	170.5	4,200	4,200	140
140	75	150	49.5	167.7	6,600	6,600	52.5	165.7	5,200	5,200	55.2	161.6	4,000	4,000	150
140	75	160	45.8	158.0	6,200	6,200	48.8	155.8	4,900	4,900	51.4	151.5	3,800	3,800	160
140	75	170	41.8	146.9	5,800	5,800	44.8	144.6	4,700	4,700	47.2	139.9	3,700	3,700	170
140	75	180	37.5	134.1	5,400	5,300	40.4	131.5	4,400	4,400					180
140	75	190	32.7	118.9	5,100	4,800	35.5	116.0	4,300	4,300					190
140	75	200	27.1	100.3	4,900	4,300									200
150	30	38.45	80.0	185.9	24,000	24,000									38.45
150	30	40	79.5	185.5	24,000	24,000									40
150	30	50	76.3	183.3	24,000	24,000	77.8	182.5	24,000	24,000	79.3	180.9	20,500	20,500	50
150	30	60	73.0	180.3	24,000	24,000	74.5	179.5	24,000	24,000	76.0	178.0	19,100	19,100	60
150	30	70	69.6	176.8	24,000	22,400	71.2	176.0	24,000	22,700	72.6	174.4	17,900	17,900	70
150	30	80	66.2	172.6	22,200	18,600	67.7	171.7	22,500	18,900	69.1	170.1	16,800	16,800	80
150	30	90	62.7	167.6	18,800	15,700	64.2	166.8	19,100	16,000	65.5	165.0	15,900	15,900	90
150	30	100	59.0	161.9	16,200	13,500	60.5	161.0	16,400	13,700	61.8	159.2	15,100	13,800	100
150	30	110	55.3	155.2	14,100	11,700	56.7	154.3	14,300	11,800	58.0	152.4	14,400	12,000	110
150	30	120	51.3	147.5	12,300	10,200	52.7	146.5	12,500	10,300	53.9	144.5	12,600	10,400	120
150	30	130	47.1	138.6	10,700	8,900	48.5	137.6	10,900	9,000	49.6	135.4	11,000	9,100	130
150	30	140	42.5	128.2	9,400	7,900	43.9	127.1	9,500	8,000					140
150	30	150	37.5	116.0	8,200	6,900	38.8	114.7	8,300	7,000					150
150	30	160	31.9	101.1	7,200	6,200									160
150	30	170	25.0	82.0	6,300	5,500									170

218 HSL 50" x 60" Tube Boom and 24" x 32" Jib Capacities With ABC+A Counterweight

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

Boom Length (ft)	Jib Length (ft)	Load Radius (ft)	Boom Angle (deg)	Tip Height (ft)	5 Degree Offset		Boom Angle (deg)	Tip Height (ft)	15 Degree Offset		Boom Angle (deg)	Tip Height (ft)	25 Degree Offset		Load Radius (ft)
					End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)	
150	45	42.33	80.0	200.3	24,000	24,000									42.33
150	45	50	77.7	198.7	24,000	24,000	79.9	197.6	22,700	22,700					50
150	45	60	74.7	196.0	24,000	24,000	76.9	194.9	20,000	20,000	78.9	192.7	13,600	13,600	60
150	45	70	71.6	192.8	24,000	22,600	73.8	191.6	17,800	17,800	75.8	189.4	12,500	12,500	70
150	45	80	68.5	188.9	22,200	18,800	70.7	187.8	16,100	16,100	72.6	185.5	11,600	11,600	80
150	45	90	65.3	184.4	19,000	15,900	67.4	183.2	14,700	14,700	69.4	180.9	10,800	10,800	90
150	45	100	62.0	179.2	16,400	13,600	64.1	178.0	13,500	13,500	66.0	175.6	10,100	10,100	100
150	45	110	58.6	173.2	14,200	11,800	60.7	172.0	12,600	12,100	62.5	169.5	9,600	9,600	110
150	45	120	55.1	166.4	12,500	10,300	57.2	165.1	11,700	10,500	58.9	162.5	9,100	9,100	120
150	45	130	51.4	158.6	10,900	9,100	53.4	157.3	11,000	9,200	55.1	154.5	8,700	8,700	130
150	45	140	47.5	149.7	9,500	8,000	49.5	148.3	9,800	8,100	51.1	145.4	8,300	8,300	140
150	45	150	43.3	139.5	8,400	7,100	45.3	137.9	8,600	7,200	46.8	134.8	8,000	7,300	150
150	45	160	38.8	127.5	7,400	6,300	40.7	125.8	7,500	6,400					160
150	45	170	33.7	113.3	6,500	5,600	35.5	111.4	6,600	5,700					170
150	45	180	27.8	95.8	5,700	5,000									180
150	60	46.21	80.0	214.8	21,700	21,700									46.21
150	60	50	79.0	214.0	21,400	21,400									50
150	60	60	76.2	211.6	20,600	20,600	78.9	210.2	14,600	14,600					60
150	60	70	73.3	208.6	19,700	19,600	76.0	207.2	13,000	13,000	78.6	204.5	9,100	9,100	70
150	60	80	70.5	205.0	17,100	17,100	73.1	203.6	11,800	11,800	75.6	200.8	8,400	8,400	80
150	60	90	67.5	200.9	15,200	15,200	70.2	199.5	10,800	10,800	72.7	196.6	7,800	7,800	90
150	60	100	64.5	196.2	13,600	13,600	67.2	194.7	9,900	9,900	69.6	191.8	7,300	7,300	100
150	60	110	61.5	190.7	12,300	11,900	64.1	189.2	9,200	9,100	66.4	186.2	6,900	6,900	110
150	60	120	58.3	184.6	11,200	10,400	60.9	183.0	8,500	8,500	63.2	179.9	6,500	6,500	120
150	60	130	55.0	177.7	10,300	9,200	57.5	176.0	8,000	8,000	59.8	172.8	6,100	6,200	130
150	60	140	51.5	169.8	9,500	8,100	54.1	168.1	7,500	7,500	56.2	164.7	5,900	5,900	140
150	60	150	47.9	160.9	8,500	7,200	50.4	159.1	7,100	7,100	52.5	155.5	5,600	5,600	150
150	60	160	44.1	150.7	7,500	6,400	46.5	148.8	6,700	6,500	48.5	144.9	5,400	5,400	160
150	60	170	39.9	139.1	6,600	5,700	42.3	136.9	6,400	5,800					170
150	60	180	35.3	125.4	5,900	5,100	37.6	123.0	6,000	5,200					180
150	60	190	30.1	108.9	5,200	4,500									190
150	75	50.1	80.0	229.3	17,400	17,400									50.1
150	75	60	77.4	227.0	16,800	16,800									60
150	75	70	74.8	224.3	15,400	15,400	78.0	222.7	10,100	10,100					70
150	75	80	72.1	221.0	13,400	13,400	75.3	219.4	9,200	9,200	78.3	216.1	6,400	6,400	80
150	75	90	69.4	217.2	11,900	11,900	72.6	215.5	8,300	8,300	75.5	212.2	5,900	5,900	90
150	75	100	66.7	212.8	10,700	10,700	69.8	211.1	7,600	7,600	72.7	207.8	5,500	5,500	100
150	75	110	63.9	207.8	9,600	9,600	66.9	206.1	7,000	7,000	69.8	202.7	5,100	5,100	110
150	75	120	61.0	202.2	8,800	8,800	64.0	200.5	6,500	6,500	66.8	196.9	4,800	4,800	120
150	75	130	58.0	195.9	8,100	8,100	61.0	194.1	6,100	6,100	63.7	190.4	4,600	4,600	130
150	75	140	54.9	188.9	7,400	7,400	57.9	187.0	5,700	5,700	60.5	183.2	4,300	4,300	140
150	75	150	51.6	181.0	6,900	6,900	54.6	179.0	5,400	5,400	57.2	175.0	4,100	4,100	150
150	75	160	48.3	172.0	6,400	6,400	51.2	169.9	5,100	5,100	53.7	165.7	3,900	3,900	160
150	75	170	44.7	162.0	6,000	5,700	47.5	159.7	4,800	4,800	49.9	155.2	3,800	3,800	170
150	75	180	40.8	150.5	5,700	5,100	43.6	148.1	4,600	4,600	45.9	143.2	3,600	3,600	180
150	75	190	36.6	137.3	5,200	4,600	39.4	134.6	4,400	4,400					190
150	75	200	31.9	121.6	4,600	4,100									200
150	75	210	26.5	102.5	4,100	3,600									210

218 HSL 50" x 60" Tube Boom and 24" x 32" Jib Capacities With ABC+A Counterweight
Refer to Jib Notes for Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Load Radius (ft)	Boom Angle (deg)	Tip Height (ft)	5 Degree Offset		Boom Angle (deg)	Tip Height (ft)	15 Degree Offset		Boom Angle (deg)	Tip Height (ft)	25 Degree Offset		Load Radius (ft)
					End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)	
160	30	40.18	80.0	195.7	24,000	24,000									40.18
160	30	50	77.0	193.6	24,000	24,000	78.5	192.8	24,000	24,000	79.9	191.2	20,800	20,800	50
160	30	60	73.9	190.8	24,000	24,000	75.4	190.0	24,000	24,000	76.7	188.4	19,400	19,400	60
160	30	70	70.7	187.5	24,000	22,200	72.2	186.7	24,000	22,500	73.5	185.0	18,200	18,200	70
160	30	80	67.5	183.5	22,000	18,400	69.0	182.7	22,300	18,700	70.3	181.0	17,100	17,100	80
160	30	90	64.2	178.9	18,600	15,500	65.7	178.0	18,900	15,700	66.9	176.3	16,200	16,000	90
160	30	100	60.8	173.5	16,000	13,200	62.3	172.6	16,200	13,500	63.5	170.9	15,500	13,600	100
160	30	110	57.3	167.3	13,800	11,400	58.7	166.4	14,000	11,600	59.9	164.6	14,200	11,800	110
160	30	120	53.7	160.2	11,900	9,900	55.0	159.3	12,100	10,100	56.2	157.4	12,300	10,200	120
160	30	130	49.8	152.1	10,300	8,700	51.2	151.1	10,500	8,800	52.3	149.1	10,600	8,900	130
160	30	140	45.7	142.8	9,000	7,600	47.0	141.7	9,100	7,700	48.1	139.5	9,300	7,800	140
160	30	150	41.3	132.0	7,900	6,700	42.6	130.8	8,000	6,800					150
160	30	160	36.5	119.2	6,900	5,900	37.7	117.9	7,000	6,000					160
160	30	170	31.0	103.8	6,000	5,200									170
160	45	44.07	80.0	210.2	24,000	24,000									44.07
160	45	50	78.3	208.9	24,000	24,000									50
160	45	60	75.5	206.4	24,000	24,000	77.5	205.3	20,500	20,500	79.5	203.1	13,800	13,800	60
160	45	70	72.6	203.3	24,000	22,400	74.6	202.2	18,300	18,300	76.5	200.0	12,700	12,700	70
160	45	80	69.6	199.7	22,200	18,600	71.6	198.5	16,600	16,600	73.5	196.3	11,800	11,800	80
160	45	90	66.6	195.5	18,800	15,700	68.6	194.3	15,200	15,200	70.5	191.9	11,000	11,000	90
160	45	100	63.5	190.6	16,100	13,400	65.5	189.4	14,000	13,700	67.3	187.0	10,400	10,400	100
160	45	110	60.3	185.0	14,000	11,600	62.3	183.7	13,000	11,800	64.1	181.3	9,800	9,800	110
160	45	120	57.0	178.6	12,100	10,100	59.0	177.3	12,100	10,300	60.7	174.8	9,300	9,300	120
160	45	130	53.6	171.4	10,500	8,800	55.6	170.1	10,800	9,000	57.2	167.4	8,900	8,900	130
160	45	140	50.0	163.3	9,200	7,800	51.9	161.8	9,400	7,900	53.5	159.0	8,500	8,100	140
160	45	150	46.3	154.0	8,000	6,800	48.1	152.5	8,200	7,000	49.6	149.4	8,200	7,100	150
160	45	160	42.2	143.3	7,000	6,000	44.0	141.7	7,200	6,200	45.4	138.4	7,300	6,300	160
160	45	170	37.8	130.9	6,200	5,400	39.5	129.1	6,300	5,500					170
160	45	180	32.9	116.2	5,400	4,700									180
160	45	190	27.1	98.1	4,700	4,200									190
160	60	47.95	80.0	224.7	21,300	21,300									47.95
160	60	50	79.5	224.3	21,100	21,100									50
160	60	60	76.8	221.9	20,400	20,400	79.4	220.5	14,900	14,900					60
160	60	70	74.1	219.1	19,700	19,700	76.7	217.7	13,300	13,300	79.1	214.9	9,200	9,200	70
160	60	80	71.4	215.7	17,800	17,900	74.0	214.3	12,100	12,100	76.3	211.5	8,500	8,500	80
160	60	90	68.6	211.8	15,800	15,800	71.2	210.3	11,100	11,000	73.5	207.5	7,900	7,900	90
160	60	100	65.8	207.3	14,200	13,500	68.3	205.8	10,200	10,200	70.6	202.9	7,400	7,400	100
160	60	110	62.9	202.2	12,900	11,700	65.4	200.7	9,400	9,400	67.6	197.7	7,000	7,000	110
160	60	120	59.9	196.4	11,700	10,200	62.4	194.9	8,800	8,800	64.6	191.8	6,600	6,600	120
160	60	130	56.8	189.9	10,600	8,900	59.3	188.3	8,200	8,200	61.4	185.1	6,300	6,300	130
160	60	140	53.6	182.6	9,300	7,900	56.0	180.9	7,700	7,700	58.1	177.6	6,000	6,000	140
160	60	150	50.3	174.4	8,100	6,900	52.6	172.6	7,300	7,200	54.7	169.1	5,700	5,700	150
160	60	160	46.7	165.1	7,100	6,100	49.1	163.3	6,900	6,300	51.0	159.5	5,500	5,500	160
160	60	170	43.0	154.6	6,300	5,400	45.3	152.6	6,500	5,600	47.1	148.5	5,300	5,300	170
160	60	180	38.9	142.5	5,500	4,800	41.1	140.3	5,700	5,000					180
160	60	190	34.4	128.4	4,800	4,300	36.6	125.9	5,000	4,400					190
160	60	200	29.3	111.4	4,200	3,800									200

218 HSL 50" x 60" Tube Boom and 24" x 32" Jib Capacities With ABC+A Counterweight
Refer to Jib Notes for Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Load Radius (ft)	Boom Angle (deg)	Tip Height (ft)	5 Degree Offset		Boom Angle (deg)	Tip Height (ft)	15 Degree Offset		Boom Angle (deg)	Tip Height (ft)	25 Degree Offset		Load Radius (ft)
					End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)	
160	75	51.83	80.0	239.2	17,100	17,100									51.83
160	75	60	78.0	237.3	16,600	16,600									60
160	75	70	75.5	234.7	15,900	15,900	78.5	233.1	10,300	10,400					70
160	75	80	72.9	231.6	13,900	13,900	76.0	229.9	9,400	9,400	78.8	226.6	6,500	6,500	80
160	75	90	70.4	227.9	12,400	12,400	73.4	226.3	8,500	8,500	76.2	222.9	6,000	6,000	90
160	75	100	67.7	223.8	11,100	11,100	70.7	222.1	7,800	7,800	73.5	218.7	5,600	5,600	100
160	75	110	65.1	219.1	10,000	10,000	68.0	217.3	7,200	7,200	70.7	213.9	5,200	5,200	110
160	75	120	62.3	213.8	9,100	9,200	65.3	212.0	6,700	6,700	67.9	208.4	4,900	4,900	120
160	75	130	59.5	207.8	8,400	8,400	62.4	206.0	6,300	6,300	65.0	202.3	4,700	4,700	130
160	75	140	56.6	201.2	7,800	7,800	59.5	199.3	5,900	5,900	62.1	195.5	4,400	4,400	140
160	75	150	53.6	193.8	7,200	7,000	56.4	191.8	5,500	5,500	58.9	187.9	4,200	4,200	150
160	75	160	50.4	185.6	6,700	6,200	53.3	183.5	5,200	5,200	55.7	179.3	4,000	4,000	160
160	75	170	47.1	176.3	6,300	5,500	49.9	174.1	5,000	5,000	52.3	169.7	3,900	3,900	170
160	75	180	43.6	165.9	5,600	4,900	46.4	163.5	4,700	4,700	48.6	158.8	3,700	3,700	180
160	75	190	39.9	154.0	4,900	4,300	42.5	151.5	4,500	4,500					190
160	75	200	35.8	140.4	4,300	3,800	38.4	137.6	4,300	4,000					200
160	75	210	31.2	124.3	3,700	3,400									210
160	75	220	25.8	104.6	3,200	3,000									220
170	30	41.92	80.0	205.5	24,000	24,000									41.92
170	30	50	77.7	203.8	24,000	24,000	79.1	203.0	24,000	24,000					50
170	30	60	74.7	201.2	24,000	24,000	76.1	200.4	24,000	24,000	77.4	198.8	19,600	19,600	60
170	30	70	71.7	198.1	24,000	22,000	73.1	197.3	24,000	22,300	74.4	195.6	18,500	18,500	70
170	30	80	68.7	194.3	21,800	18,200	70.1	193.5	22,100	18,500	71.3	191.9	17,400	17,400	80
170	30	90	65.6	190.0	18,400	15,300	67.0	189.1	18,700	15,500	68.2	187.4	16,500	15,800	90
170	30	100	62.4	184.9	15,700	13,000	63.8	184.1	16,000	13,200	65.0	182.3	15,800	13,400	100
170	30	110	59.1	179.2	13,400	11,200	60.5	178.3	13,600	11,400	61.6	176.5	13,900	11,600	110
170	30	120	55.7	172.6	11,500	9,700	57.1	171.7	11,700	9,900	58.2	169.8	11,900	10,000	120
170	30	130	52.2	165.1	10,000	8,500	53.5	164.1	10,100	8,600	54.6	162.2	10,300	8,700	130
170	30	140	48.5	156.6	8,600	7,400	49.7	155.6	8,800	7,500	50.8	153.5	8,900	7,600	140
170	30	150	44.5	146.9	7,500	6,500	45.7	145.8	7,600	6,600	46.7	143.5	7,700	6,700	150
170	30	160	40.2	135.6	6,500	5,700	41.4	134.4	6,600	5,800					160
170	30	170	35.5	122.4	5,600	5,000	36.7	121.0	5,700	5,100					170
170	30	180	30.2	106.5	4,900	4,400									180
170	45	45.8	80.0	220.0	24,000	24,000									45.8
170	45	50	78.9	219.2	24,000	24,000									50
170	45	60	76.1	216.8	24,000	24,000	78.1	215.6	21,000	21,000					60
170	45	70	73.4	213.9	24,000	22,200	75.4	212.7	18,800	18,800	77.2	210.5	12,900	12,900	70
170	45	80	70.6	210.4	22,000	18,300	72.5	209.2	17,100	17,100	74.3	206.9	12,000	12,000	80
170	45	90	67.7	206.4	18,600	15,400	69.7	205.2	15,600	15,600	71.4	202.9	11,300	11,300	90
170	45	100	64.8	201.8	15,900	13,200	66.7	200.6	14,400	13,500	68.5	198.2	10,600	10,600	100
170	45	110	61.8	196.5	13,600	11,400	63.7	195.3	13,400	11,600	65.4	192.8	10,000	10,000	110
170	45	120	58.8	190.6	11,700	9,800	60.6	189.3	12,000	10,100	62.3	186.7	9,500	9,500	120
170	45	130	55.6	183.9	10,100	8,600	57.4	182.5	10,400	8,800	59.0	179.9	9,100	9,000	130
170	45	140	52.3	176.3	8,800	7,500	54.1	174.9	9,100	7,700	55.6	172.1	8,700	7,900	140
170	45	150	48.8	167.8	7,700	6,600	50.6	166.3	7,900	6,800	52.1	163.4	8,100	6,900	150
170	45	160	45.1	158.1	6,700	5,800	46.9	156.5	6,900	6,000	48.3	153.4	7,000	6,100	160
170	45	170	41.2	147.0	5,800	5,100	42.9	145.3	6,000	5,200					170
170	45	180	36.8	134.2	5,000	4,500	38.5	132.3	5,200	4,600					180
170	45	190	32.0	119.0	4,400	4,000									190
170	45	200	26.4	100.4	3,700	3,500									200

218 HSL 50" x 60" Tube Boom and 24" x 32" Jib Capacities With ABC+A Counterweight
Refer to Jib Notes for Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Load Radius (ft)	Boom Angle (deg)	Tip Height (ft)	5 Degree Offset		Boom Angle (deg)	Tip Height (ft)	15 Degree Offset		Boom Angle (deg)	Tip Height (ft)	25 Degree Offset		Load Radius (ft)
					End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)	
170	60	49.69	80.0	234.5	20,800	20,800									49.69
170	60	50	79.9	234.5	20,800	20,800									50
170	60	60	77.4	232.2	20,100	20,100	79.9	230.8	15,200	15,200					60
170	60	70	74.8	229.5	19,500	19,500	77.3	228.1	13,600	13,600	79.6	225.3	9,300	9,300	70
170	60	80	72.2	226.3	18,500	18,400	74.7	224.9	12,400	12,400	77.0	222.0	8,600	8,600	80
170	60	90	69.6	222.6	16,400	15,600	72.0	221.1	11,300	11,300	74.3	218.2	8,100	8,100	90
170	60	100	66.9	218.3	14,800	13,300	69.3	216.8	10,400	10,500	71.5	213.9	7,600	7,600	100
170	60	110	64.1	213.5	13,400	11,500	66.5	212.0	9,700	9,700	68.7	209.0	7,100	7,100	110
170	60	120	61.3	208.1	11,800	10,000	63.7	206.5	9,000	9,000	65.8	203.4	6,700	6,800	120
170	60	130	58.4	202.0	10,300	8,700	60.8	200.3	8,500	8,500	62.9	197.1	6,400	6,400	130
170	60	140	55.4	195.1	8,900	7,600	57.8	193.4	8,000	7,900	59.8	190.1	6,100	6,100	140
170	60	150	52.3	187.5	7,800	6,700	54.6	185.7	7,500	6,900	56.6	182.2	5,900	5,900	150
170	60	160	49.1	178.9	6,800	5,900	51.3	177.1	7,100	6,100	53.2	173.4	5,600	5,600	160
170	60	170	45.6	169.2	5,900	5,200	47.9	167.3	6,200	5,400	49.7	163.4	5,400	5,400	170
170	60	180	42.0	158.3	5,100	4,600	44.1	156.3	5,400	4,700	45.9	152.1	5,300	4,900	180
170	60	190	38.0	145.8	4,500	4,000	40.1	143.6	4,600	4,200					190
170	60	200	33.6	131.3	3,900	3,600	35.7	128.8	4,000	3,700					200
170	60	210	28.7	113.9	3,300	3,100									210
170	75	53.57	80.0	249.0	16,800	16,800									53.57
170	75	60	78.5	247.6	16,400	16,400									60
170	75	70	76.1	245.1	15,900	15,900	79.0	243.4	10,500	10,500					70
170	75	80	73.6	242.1	14,400	14,400	76.6	240.4	9,500	9,600	79.3	237.1	6,500	6,500	80
170	75	90	71.2	238.6	12,800	12,800	74.1	236.9	8,700	8,700	76.8	233.6	6,100	6,100	90
170	75	100	68.7	234.7	11,500	11,500	71.6	232.9	8,000	8,000	74.2	229.5	5,700	5,700	100
170	75	110	66.1	230.2	10,400	10,400	69.0	228.4	7,400	7,400	71.6	224.9	5,300	5,300	110
170	75	120	63.5	225.2	9,500	9,500	66.4	223.4	6,900	6,900	69.0	219.8	5,000	5,000	120
170	75	130	60.9	219.6	8,700	8,700	63.7	217.7	6,500	6,400	66.2	214.0	4,700	4,700	130
170	75	140	58.1	213.3	8,100	7,700	60.9	211.4	6,000	6,000	63.4	207.6	4,500	4,500	140
170	75	150	55.3	206.4	7,500	6,800	58.1	204.4	5,700	5,700	60.5	200.4	4,300	4,300	150
170	75	160	52.4	198.6	6,900	6,000	55.1	196.6	5,400	5,400	57.5	192.5	4,100	4,100	160
170	75	170	49.3	190.0	6,000	5,300	52.0	187.9	5,100	5,100	54.3	183.6	3,900	3,900	170
170	75	180	46.1	180.4	5,200	4,700	48.7	178.2	4,900	4,900	50.9	173.6	3,800	3,800	180
170	75	190	42.7	169.7	4,500	4,100	45.3	167.2	4,600	4,300	47.4	162.4	3,700	3,700	190
170	75	200	39.0	157.4	3,900	3,600	41.5	154.8	4,100	3,800					200
170	75	210	35.0	143.4	3,400	3,200	37.5	140.5	3,600	3,300					210
180	30	43.66	80.0	215.4	24,000	24,000									43.66
180	30	50	78.2	214.1	24,000	24,000	79.6	213.3	24,000	24,000					50
180	30	60	75.5	211.6	24,000	24,000	76.8	210.8	24,000	24,000	78.0	209.2	19,900	19,900	60
180	30	70	72.6	208.6	24,000	21,700	74.0	207.8	24,000	22,100	75.2	206.2	18,700	18,700	70
180	30	80	69.8	205.1	21,600	17,900	71.1	204.3	21,900	18,300	72.3	202.6	17,700	17,700	80
180	30	90	66.8	201.0	18,100	15,100	68.1	200.1	18,500	15,300	69.3	198.4	16,800	15,600	90
180	30	100	63.8	196.2	15,300	12,800	65.1	195.4	15,600	13,000	66.3	193.6	15,900	13,200	100
180	30	110	60.8	190.8	13,000	11,000	62.0	189.9	13,300	11,200	63.2	188.1	13,500	11,400	110
180	30	120	57.6	184.7	11,100	9,500	58.8	183.7	11,400	9,700	59.9	181.9	11,600	9,800	120
180	30	130	54.3	177.7	9,600	8,200	55.5	176.8	9,800	8,400	56.6	174.8	10,000	8,500	130
180	30	140	50.8	169.9	8,300	7,200	52.1	168.9	8,400	7,300	53.1	166.8	8,600	7,400	140
180	30	150	47.2	161.0	7,100	6,200	48.4	159.9	7,300	6,400	49.4	157.8	7,400	6,500	150
180	30	160	43.4	150.8	6,100	5,500	44.5	149.7	6,300	5,500	45.4	147.4	6,400	5,600	160
180	30	170	39.2	139.2	5,300	4,800	40.3	137.9	5,400	4,800					170
180	30	180	34.6	125.5	4,500	4,100	35.7	124.1	4,600	4,200					180
180	30	190	29.4	109.0	3,800	3,600									190

218 HSL 50" x 60" Tube Boom and 24" x 32" Jib Capacities With ABC+A Counterweight
Refer to Jib Notes for Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Load Radius (ft)	Boom Angle (deg)	Tip Height (ft)	5 Degree Offset		Boom Angle (deg)	Tip Height (ft)	15 Degree Offset		Boom Angle (deg)	Tip Height (ft)	25 Degree Offset		Load Radius (ft)
					End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)	
180	45	47.54	80.0	229.9	24,000	24,000									47.54
180	45	50	79.4	229.4	24,000	24,000									50
180	45	60	76.8	227.1	24,000	24,000	78.7	226.0	21,400	21,400					60
180	45	70	74.1	224.3	23,600	21,900	76.0	223.2	19,300	19,300	77.8	220.9	13,100	13,100	70
180	45	80	71.5	221.0	21,800	18,100	73.4	219.9	17,500	17,500	75.1	217.6	12,200	12,200	80
180	45	90	68.8	217.2	18,300	15,200	70.6	216.0	16,100	15,600	72.3	213.7	11,400	11,400	90
180	45	100	66.0	212.9	15,500	13,000	67.9	211.7	14,800	13,300	69.5	209.2	10,800	10,800	100
180	45	110	63.2	207.9	13,200	11,100	65.0	206.7	13,600	11,400	66.6	204.2	10,200	10,200	110
180	45	120	60.3	202.3	11,300	9,600	62.1	201.0	11,700	9,900	63.7	198.5	9,700	9,700	120
180	45	130	57.3	196.0	9,800	8,400	59.1	194.7	10,100	8,600	60.6	192.1	9,300	8,800	130
180	45	140	54.2	188.9	8,400	7,300	56.0	187.6	8,700	7,500	57.5	184.9	8,900	7,700	140
180	45	150	51.0	181.0	7,300	6,400	52.7	179.6	7,500	6,600	54.2	176.7	7,800	6,700	150
180	45	160	47.6	172.1	6,300	5,600	49.3	170.6	6,500	5,700	50.7	167.6	6,700	5,900	160
180	45	170	44.0	162.1	5,400	4,900	45.7	160.4	5,600	5,000	47.0	157.2	5,800	5,100	170
180	45	180	40.2	150.6	4,700	4,300	41.8	148.9	4,800	4,400					180
180	45	190	36.0	137.4	4,000	3,700	37.5	135.4	4,100	3,800					190
180	45	200	31.3	121.8	3,400	3,200									200
180	60	51.42	80.0	244.4	20,300	20,300									51.42
180	60	60	77.9	242.5	19,700	19,700									60
180	60	70	75.5	239.9	19,100	19,100	77.8	238.5	13,900	13,900					70
180	60	80	73.0	236.9	18,400	18,300	75.3	235.4	12,700	12,700	77.6	232.5	8,700	8,700	80
180	60	90	70.5	233.3	16,800	15,400	72.8	231.8	11,600	11,600	75.0	228.9	8,200	8,200	90
180	60	100	67.9	229.3	15,400	13,100	70.2	227.8	10,700	10,700	72.4	224.8	7,700	7,700	100
180	60	110	65.3	224.7	13,300	11,200	67.6	223.1	10,000	9,900	69.7	220.1	7,300	7,200	110
180	60	120	62.6	219.5	11,500	9,700	64.9	218.0	9,300	9,300	67.0	214.8	6,900	6,900	120
180	60	130	59.9	213.8	9,900	8,500	62.2	212.1	8,700	8,700	64.2	208.9	6,500	6,500	130
180	60	140	57.1	207.3	8,600	7,400	59.3	205.7	8,200	7,700	61.3	202.4	6,200	6,200	140
180	60	150	54.2	200.2	7,400	6,500	56.4	198.4	7,800	6,700	58.3	195.0	6,000	6,000	150
180	60	160	51.1	192.2	6,400	5,700	53.3	190.4	6,700	5,900	55.2	186.8	5,700	5,700	160
180	60	170	47.9	183.3	5,600	5,000	50.1	181.4	5,800	5,200	51.9	177.6	5,500	5,300	170
180	60	180	44.6	173.3	4,800	4,400	46.7	171.3	5,000	4,500	48.4	167.2	5,200	4,700	180
180	60	190	41.0	162.0	4,100	3,800	43.1	159.8	4,300	4,000					190
180	60	200	37.2	149.1	3,500	3,300	39.2	146.8	3,700	3,400					200
180	60	210	32.9	134.2	3,000										210
180	75	55.3	80.0	258.9	16,500	16,500									55.3
180	75	60	78.9	257.9	16,200	16,200									60
180	75	70	76.6	255.4	15,700	15,700	79.4	253.8	10,700	10,700					70
180	75	80	74.3	252.6	14,900	14,900	77.1	250.9	9,700	9,700	79.7	247.5	6,600	6,600	80
180	75	90	72.0	249.3	13,300	13,300	74.7	247.5	8,900	8,900	77.3	244.1	6,200	6,100	90
180	75	100	69.6	245.5	11,900	11,900	72.3	243.7	8,200	8,200	74.9	240.3	5,800	5,800	100
180	75	110	67.1	241.2	10,800	10,800	69.9	239.4	7,600	7,600	72.4	235.9	5,400	5,400	110
180	75	120	64.7	236.4	9,900	9,800	67.4	234.6	7,100	7,100	69.9	231.0	5,100	5,100	120
180	75	130	62.1	231.1	9,100	8,500	64.8	229.2	6,600	6,600	67.3	225.5	4,800	4,800	130
180	75	140	59.5	225.2	8,400	7,500	62.2	223.3	6,200	6,200	64.6	219.5	4,600	4,600	140
180	75	150	56.9	218.6	7,500	6,500	59.5	216.7	5,900	5,900	61.9	212.7	4,400	4,400	150
180	75	160	54.1	211.4	6,500	5,700	56.7	209.3	5,500	5,500	59.0	205.3	4,200	4,200	160
180	75	170	51.2	203.3	5,600	5,000	53.8	201.2	5,300	5,300	56.1	197.0	4,000	4,000	170
180	75	180	48.2	194.4	4,900	4,400	50.8	192.2	5,000	4,700	53.0	187.7	3,900	3,900	180
180	75	190	45.1	184.5	4,200	3,900	47.6	182.1	4,500	4,100	49.7	177.4	3,700	3,700	190
180	75	200	41.8	173.4	3,600	3,400	44.2	170.9	3,800	3,600	46.2	165.8	3,600	3,600	200
180	75	210	38.2	160.8	3,000		40.6	158.1	3,200	3,100					210

218 HSL 50" x 60" Tube Boom and 24" x 32" Jib Capacities With ABC+A Counterweight
Refer to Jib Notes for Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Load Radius (ft)	Boom Angle (deg)	Tip Height (ft)	5 Degree Offset		Boom Angle (deg)	Tip Height (ft)	15 Degree Offset		Boom Angle (deg)	Tip Height (ft)	25 Degree Offset		Load Radius (ft)
					End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)	
190	30	45.39	80.0	225.2	24,000	24,000									45.39
190	30	50	78.8	224.3	24,000	24,000									50
190	30	60	76.1	222.0	24,000	24,000	77.4	221.2	24,000	24,000	78.6	219.6	20,100	20,100	60
190	30	70	73.4	219.1	24,000	21,500	74.7	218.3	23,700	21,900	75.9	216.7	19,000	19,000	70
190	30	80	70.7	215.8	21,300	17,700	72.0	214.9	21,700	18,100	73.1	213.3	18,000	18,000	80
190	30	90	67.9	211.9	17,700	14,800	69.2	211.0	18,100	15,100	70.3	209.3	17,100	15,400	90
190	30	100	65.1	207.4	14,900	12,600	66.3	206.5	15,200	12,800	67.5	204.8	15,500	13,000	100
190	30	110	62.2	202.3	12,600	10,700	63.4	201.4	12,900	11,000	64.5	199.6	13,200	11,200	110
190	30	120	59.2	196.5	10,800	9,200	60.4	195.6	11,000	9,400	61.5	193.8	11,200	9,600	120
190	30	130	56.1	190.0	9,200	8,000	57.3	189.1	9,400	8,200	58.4	187.2	9,600	8,300	130
190	30	140	52.9	182.7	7,900	6,900	54.1	181.7	8,100	7,100	55.1	179.7	8,300	7,200	140
190	30	150	49.6	174.5	6,800	6,000	50.8	173.5	6,900	6,100	51.7	171.4	7,100	6,200	150
190	30	160	46.1	165.2	5,800	5,200	47.2	164.1	5,900	5,300	48.1	161.9	6,000	5,400	160
190	30	170	42.3	154.7	4,900	4,500	43.4	153.5	5,000	4,600					170
190	30	180	38.3	142.6	4,200	3,900	39.3	141.3	4,300	4,000					180
190	30	190	33.8	128.5	3,500	3,400									190
190	45	49.28	80.0	239.7	23,600	23,600									49.28
190	45	50	79.8	239.6	23,600	23,600									50
190	45	60	77.3	237.4	22,900	22,900	79.2	236.3	21,000	21,000					60
190	45	70	74.8	234.7	22,100	21,700	76.6	233.6	19,700	19,700	78.3	231.3	13,300	13,300	70
190	45	80	72.3	231.6	21,400	17,900	74.1	230.4	17,900	17,900	75.8	228.1	12,400	12,400	80
190	45	90	69.7	228.0	17,900	15,000	71.5	226.8	16,500	15,400	73.1	224.4	11,600	11,600	90
190	45	100	67.1	223.8	15,100	12,700	68.9	222.6	15,200	13,100	70.5	220.2	11,000	11,000	100
190	45	110	64.4	219.1	12,800	10,900	66.2	217.9	13,300	11,200	67.7	215.4	10,400	10,400	110
190	45	120	61.7	213.8	11,000	9,400	63.4	212.6	11,300	9,700	65.0	210.1	9,900	9,900	120
190	45	130	58.9	207.9	9,400	8,100	60.6	206.6	9,700	8,400	62.1	204.0	9,400	8,600	130
190	45	140	56.0	201.3	8,100	7,100	57.7	199.9	8,400	7,300	59.1	197.2	8,600	7,500	140
190	45	150	53.0	193.9	6,900	6,100	54.6	192.5	7,200	6,300	56.0	189.7	7,400	6,500	150
190	45	160	49.8	185.6	5,900	5,300	51.5	184.2	6,200	5,500	52.8	181.2	6,400	5,700	160
190	45	170	46.5	176.4	5,100	4,600	48.1	174.8	5,300	4,800	49.4	171.7	5,500	4,900	170
190	45	180	43.0	165.9	4,300	4,000	44.6	164.3	4,500	4,200	45.8	161.0	4,600	4,300	180
190	45	190	39.3	154.1	3,600	3,500	40.8	152.3	3,800	3,600					190
190	45	200	35.2	140.5	3,000	3,000	36.7	138.5	3,200	3,100					200
190	60	53.16	80.0	254.2	19,700	19,700									53.16
190	60	60	78.4	252.8	19,300	19,300									60
190	60	70	76.1	250.3	18,700	18,700	78.3	248.8	14,200	14,200					70
190	60	80	73.7	247.4	18,100	18,100	76.0	245.9	12,900	12,900	78.1	243.0	8,800	8,900	80
190	60	90	71.3	244.0	16,700	15,100	73.5	242.5	11,900	11,900	75.6	239.6	8,300	8,300	90
190	60	100	68.8	240.1	15,300	12,900	71.1	238.6	11,000	11,000	73.1	235.6	7,800	7,800	100
190	60	110	66.4	235.7	13,000	11,000	68.6	234.2	10,200	10,200	70.6	231.2	7,400	7,400	110
190	60	120	63.8	230.8	11,100	9,500	66.0	229.3	9,500	9,500	68.0	226.2	7,000	7,000	120
190	60	130	61.2	225.4	9,500	8,200	63.4	223.8	8,900	8,600	65.4	220.6	6,700	6,700	130
190	60	140	58.6	219.3	8,200	7,200	60.7	217.6	8,400	7,500	62.6	214.4	6,400	6,400	140
190	60	150	55.8	212.5	7,100	6,200	58.0	210.8	7,400	6,500	59.8	207.4	6,100	6,100	150
190	60	160	53.0	205.1	6,100	5,400	55.1	203.3	6,400	5,700	56.9	199.8	5,900	5,900	160
190	60	170	50.0	196.8	5,200	4,700	52.1	194.9	5,500	5,000	53.9	191.2	5,600	5,100	170
190	60	180	46.9	187.5	4,400	4,100	49.0	185.6	4,700	4,300	50.7	181.7	4,900	4,500	180
190	60	190	43.6	177.2	3,800	3,600	45.6	175.1	4,000	3,700	47.3	171.0	4,200	3,900	190
190	60	200	40.1	165.6	3,200	3,100	42.1	163.3	3,300	3,200					200

218 HSL 50" x 60" Tube Boom and 24" x 32" Jib Capacities With ABC+A Counterweight
Refer to Jib Notes for Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Load Radius (ft)	Boom Angle (deg)	Tip Height (ft)	5 Degree Offset		Boom Angle (deg)	Tip Height (ft)	15 Degree Offset		Boom Angle (deg)	Tip Height (ft)	25 Degree Offset		Load Radius (ft)
					End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)	
190	75	57.04	80.0	268.7	16,100	16,100									57.04
190	75	60	79.4	268.1	15,900	15,900									60
190	75	70	77.1	265.8	15,400	15,400	79.8	264.1	10,900	10,900					70
190	75	80	74.9	263.0	14,900	14,900	77.6	261.3	9,900	9,900					80
190	75	90	72.7	259.8	13,700	13,700	75.3	258.1	9,100	9,100	77.8	254.7	6,200	6,200	90
190	75	100	70.4	256.2	12,300	12,300	73.0	254.5	8,400	8,400	75.5	251.0	5,800	5,800	100
190	75	110	68.1	252.1	11,200	11,100	70.7	250.4	7,800	7,800	73.1	246.8	5,500	5,500	110
190	75	120	65.7	247.6	10,200	9,600	68.3	245.8	7,300	7,300	70.7	242.1	5,200	5,200	120
190	75	130	63.3	242.5	9,400	8,300	65.9	240.6	6,800	6,800	68.3	236.9	4,900	4,900	130
190	75	140	60.8	236.9	8,300	7,200	63.4	235.0	6,400	6,400	65.7	231.2	4,700	4,700	140
190	75	150	58.3	230.7	7,100	6,300	60.8	228.7	6,000	6,000	63.1	224.8	4,400	4,400	150
190	75	160	55.7	223.8	6,200	5,500	58.2	221.8	5,700	5,700	60.5	217.7	4,300	4,200	160
190	75	170	53.0	216.2	5,300	4,800	55.5	214.1	5,400	5,100	57.7	210.0	4,100	4,100	170
190	75	180	50.2	207.9	4,500	4,200	52.7	205.7	4,900	4,400	54.8	201.3	3,900	3,900	180
190	75	190	47.3	198.7	3,800	3,600	49.7	196.4	4,100	3,900	51.8	191.8	3,800	3,800	190
190	75	200	44.2	188.4	3,200	3,100	46.6	186.0	3,500	3,300	48.6	181.1	3,700	3,500	200
190	75	210									45.1	169.2	3,100	3,000	210
200	30	47.13	80.0	235.1	24,000	24,000									47.13
200	30	50	79.3	234.5	24,000	24,000									50
200	30	60	76.7	232.3	23,300	23,300	78.0	231.5	22,200	22,200	79.1	229.9	20,300	20,300	60
200	30	70	74.2	229.6	22,500	21,300	75.4	228.8	21,400	21,400	76.5	227.1	19,200	19,200	70
200	30	80	71.6	226.4	21,000	17,500	72.8	225.5	20,600	17,900	73.9	223.9	18,200	18,200	80
200	30	90	68.9	222.7	17,400	14,600	70.1	221.8	17,800	14,900	71.2	220.1	17,300	15,200	90
200	30	100	66.3	218.4	14,500	12,300	67.4	217.5	14,900	12,600	68.5	215.8	15,200	12,800	100
200	30	110	63.5	213.6	12,300	10,500	64.7	212.7	12,600	10,700	65.7	210.9	12,900	10,900	110
200	30	120	60.7	208.1	10,400	9,000	61.9	207.2	10,700	9,200	62.9	205.4	10,900	9,400	120
200	30	130	57.8	202.0	8,900	7,800	58.9	201.1	9,100	7,900	59.9	199.2	9,300	8,100	130
200	30	140	54.8	195.2	7,500	6,700	55.9	194.2	7,700	6,800	56.9	192.3	7,900	7,000	140
200	30	150	51.7	187.6	6,400	5,800	52.8	186.5	6,600	5,900	53.7	184.5	6,700	6,000	150
200	30	160	48.4	179.0	5,400	5,000	49.5	177.9	5,600	5,100	50.4	175.8	5,700	5,200	160
200	30	170	45.0	169.3	4,600	4,300	46.1	168.2	4,700	4,400	46.9	166.0	4,800	4,500	170
200	30	180	41.3	158.4	3,800	3,700	42.4	157.2	3,900	3,800					180
200	30	190	37.4	146.0	3,100	3,100	38.4	144.6	3,200	3,200					190
200	45	51.01	80.0	249.6	21,400	21,400									51.01
200	45	60	77.9	247.7	20,700	20,700	79.6	246.5	19,200	19,200					60
200	45	70	75.5	245.1	20,000	20,000	77.2	244.0	18,500	18,500	78.8	241.7	13,400	13,400	70
200	45	80	73.0	242.1	19,300	17,700	74.8	241.0	17,800	17,800	76.4	238.6	12,600	12,600	80
200	45	90	70.6	238.7	17,600	14,800	72.3	237.5	16,900	15,200	73.9	235.1	11,800	11,800	90
200	45	100	68.1	234.7	14,700	12,500	69.8	233.5	15,300	12,900	71.3	231.1	11,200	11,200	100
200	45	110	65.5	230.3	12,500	10,700	67.2	229.0	12,900	11,000	68.7	226.6	10,600	10,600	110
200	45	120	62.9	225.2	10,600	9,200	64.6	224.0	11,000	9,500	66.1	221.5	10,100	9,700	120
200	45	130	60.3	219.6	9,000	7,900	61.9	218.3	9,400	8,200	63.4	215.7	9,600	8,400	130
200	45	140	57.5	213.4	7,700	6,800	59.2	212.0	8,000	7,100	60.6	209.4	8,300	7,300	140
200	45	150	54.7	206.4	6,600	5,900	56.3	205.0	6,900	6,100	57.7	202.3	7,100	6,300	150
200	45	160	51.8	198.7	5,600	5,100	53.4	197.3	5,800	5,300	54.7	194.4	6,100	5,500	160
200	45	170	48.7	190.1	4,700	4,400	50.3	188.6	5,000	4,600	51.6	185.6	5,100	4,700	170
200	45	180	45.5	180.5	4,000	3,800	47.0	178.9	4,200	3,900	48.3	175.7	4,300	4,100	180
200	45	190	42.1	169.7	3,300	3,200	43.6	168.0	3,500	3,400					190

218 HSL 50" x 60" Tube Boom and 24" x 32" Jib Capacities With ABC+A Counterweight
Refer to Jib Notes for Tube Boom in this Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Load Radius (ft)	Boom Angle (deg)	Tip Height (ft)	5 Degree Offset		Boom Angle (deg)	Tip Height (ft)	15 Degree Offset		Boom Angle (deg)	Tip Height (ft)	25 Degree Offset		Load Radius (ft)
					End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)			End-Blk (lbs)	360 Deg (lbs)	
200	60	54.9	80.0	264.1	18,400	18,400									54.9
200	60	60	78.9	263.0	18,100	18,100									60
200	60	70	76.6	260.6	17,500	17,500	78.8	259.2	14,400	14,400					70
200	60	80	74.3	257.8	17,000	17,000	76.5	256.4	13,200	13,200	78.6	253.4	9,000	9,000	80
200	60	90	72.0	254.6	16,400	14,900	74.2	253.1	12,100	12,100	76.2	250.1	8,400	8,400	90
200	60	100	69.7	250.9	14,900	12,600	71.8	249.4	11,200	11,200	73.8	246.4	7,900	7,900	100
200	60	110	67.3	246.7	12,600	10,800	69.5	245.2	10,400	10,400	71.4	242.1	7,500	7,500	110
200	60	120	64.9	242.0	10,700	9,300	67.0	240.5	9,800	9,700	68.9	237.4	7,100	7,100	120
200	60	130	62.4	236.8	9,200	8,000	64.5	235.2	9,200	8,400	66.4	232.0	6,800	6,800	130
200	60	140	59.9	231.1	7,800	6,900	62.0	229.4	8,300	7,300	63.8	226.2	6,500	6,500	140
200	60	150	57.3	224.7	6,700	6,000	59.4	223.0	7,100	6,300	61.2	219.6	6,200	6,200	150
200	60	160	54.6	217.6	5,700	5,200	56.7	215.9	6,100	5,500	58.4	212.4	6,000	5,700	160
200	60	170	51.8	209.9	4,800	4,500	53.9	208.0	5,200	4,700	55.6	204.4	5,400	4,900	170
200	60	180	49.0	201.2	4,100	3,900	51.0	199.3	4,400	4,100	52.6	195.5	4,600	4,300	180
200	60	190	45.9	191.7	3,400	3,300	47.9	189.7	3,700	3,500	49.5	185.7	3,900	3,700	190
200	60	200					44.7	178.9	3,000	3,000	46.2	174.6	3,200	3,100	200
200	75	58.78	80.0	278.6	15,500	15,500									58.78
200	75	60	79.7	278.3	15,500	15,500									60
200	75	70	77.6	276.1	15,000	15,000									70
200	75	80	75.5	273.4	14,600	14,600	78.1	271.7	10,100	10,100					80
200	75	90	73.3	270.4	14,100	14,100	75.9	268.6	9,300	9,300	78.3	265.1	6,300	6,300	90
200	75	100	71.1	266.9	12,700	12,700	73.7	265.1	8,600	8,600	76.1	261.6	5,900	5,900	100
200	75	110	68.9	263.0	11,600	10,900	71.4	261.2	8,000	7,900	73.8	257.6	5,600	5,600	110
200	75	120	66.6	258.6	10,600	9,400	69.2	256.8	7,400	7,400	71.5	253.1	5,300	5,300	120
200	75	130	64.3	253.8	9,300	8,100	66.8	251.9	6,900	6,900	69.1	248.2	5,000	5,000	130
200	75	140	62.0	248.4	7,900	7,000	64.5	246.5	6,500	6,500	66.7	242.7	4,700	4,700	140
200	75	150	59.6	242.5	6,800	6,100	62.0	240.5	6,200	6,200	64.3	236.6	4,500	4,500	150
200	75	160	57.1	236.0	5,800	5,300	59.6	234.0	5,800	5,600	61.7	230.0	4,300	4,300	160
200	75	170	54.6	228.9	4,900	4,600	57.0	226.8	5,300	4,900	59.1	222.6	4,100	4,100	170
200	75	180	51.9	221.0	4,200	4,000	54.3	218.9	4,500	4,200	56.4	214.5	4,000	4,000	180
200	75	190	49.2	212.4	3,500	3,400	51.6	210.1	3,800	3,600	53.6	205.6	3,800	3,900	190
200	75	200					48.7	200.5	3,200	3,100	50.6	195.8	3,400	3,300	200

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