

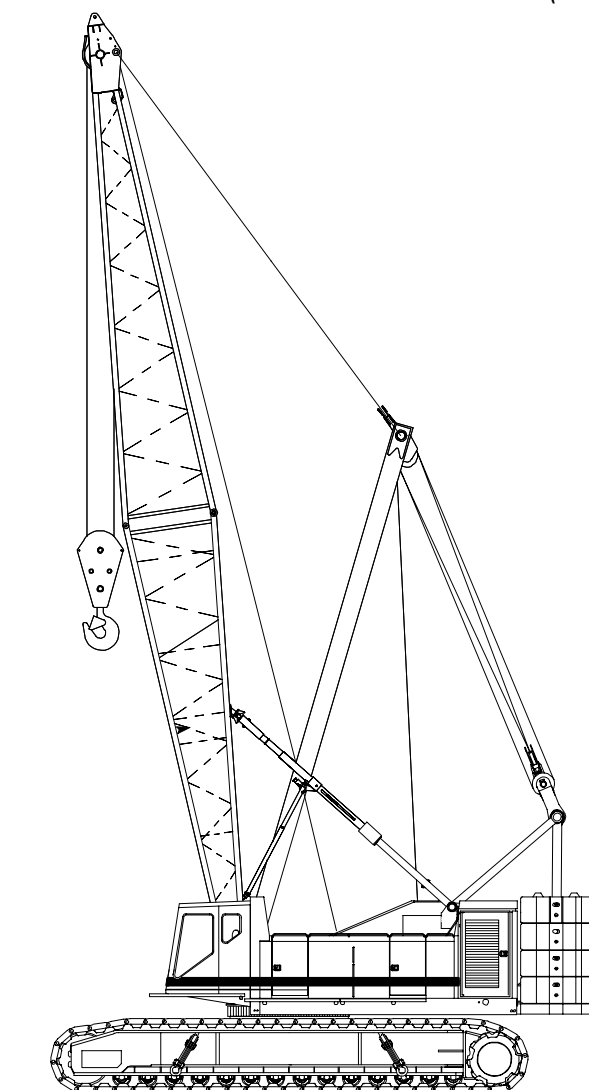


Technical Data

Specifications & Tube Boom Capacities

LS-278H

Crawler Crane
250 Ton (227 metric ton)



CAUTION: This material is supplied for reference use only. Operator must refer to in-cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly and operating procedures.



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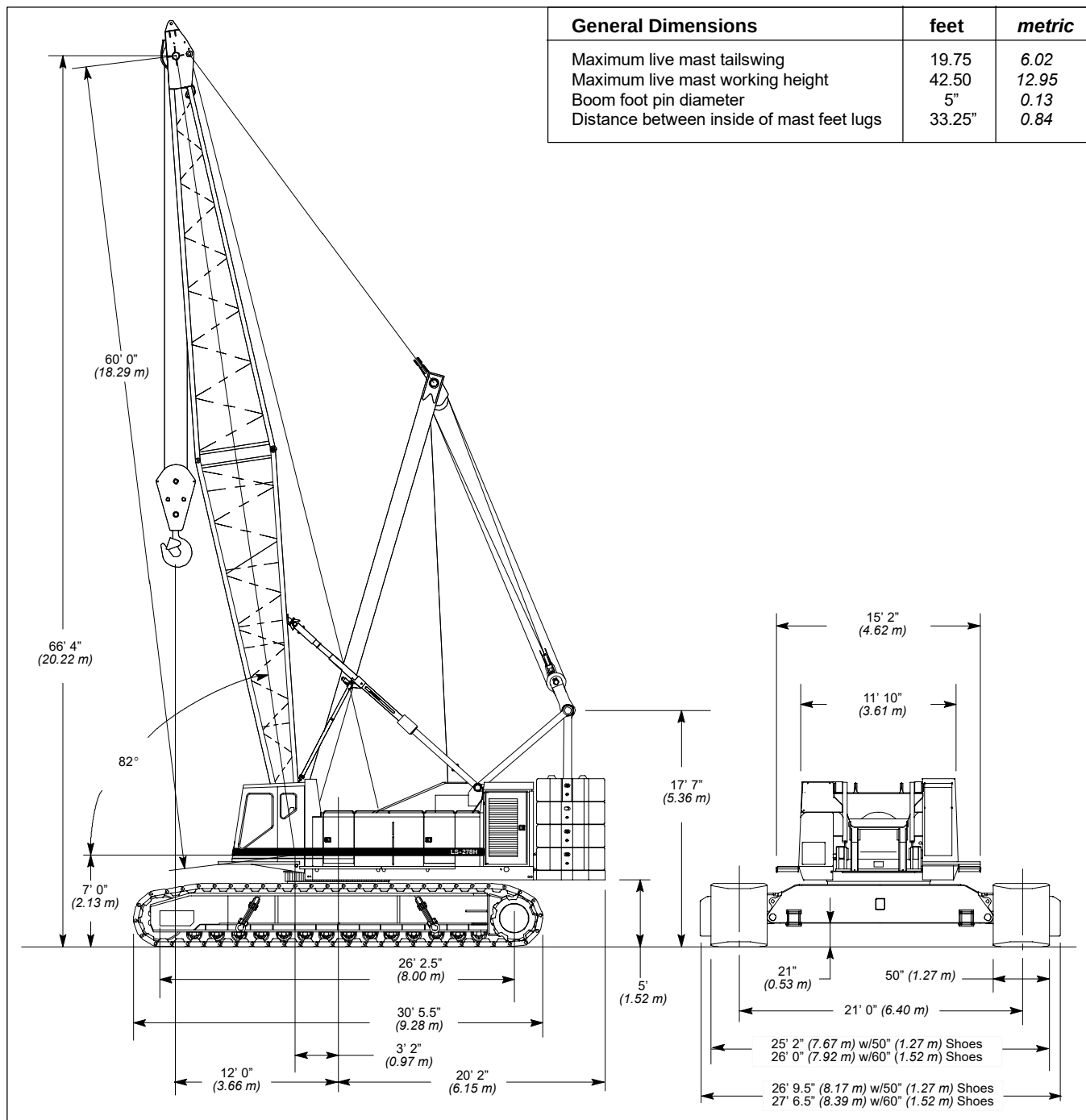
Specifications

Hydraulic Lattice Boom Crawler Crane

LS-278H

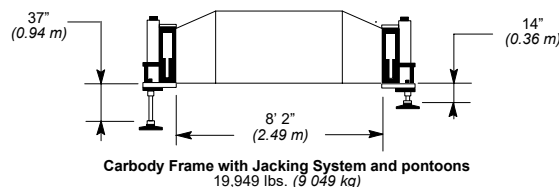
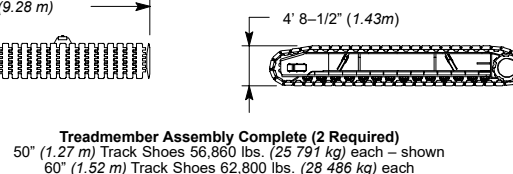
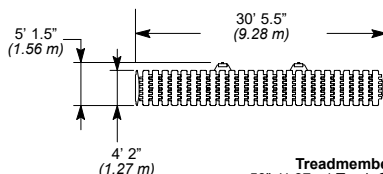
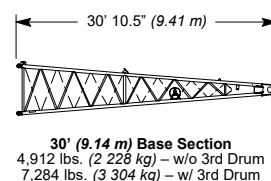
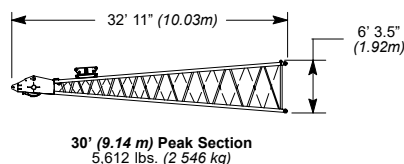
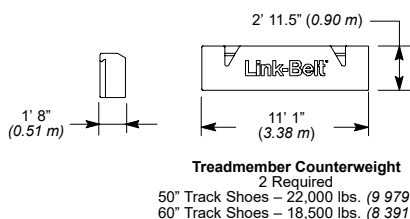
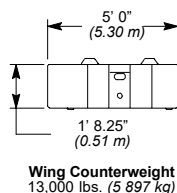
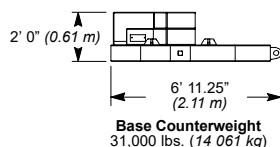
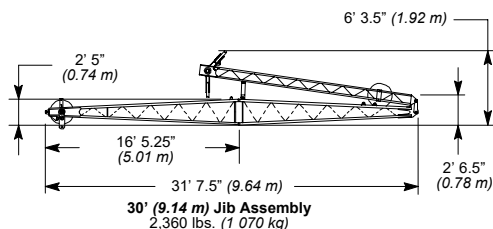
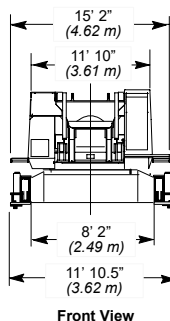
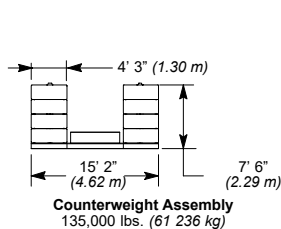
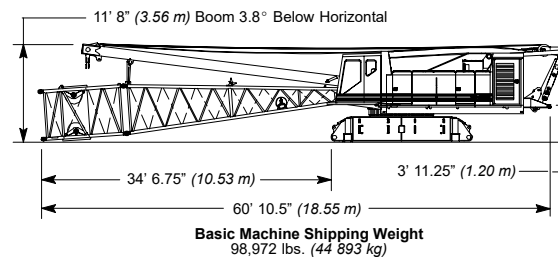
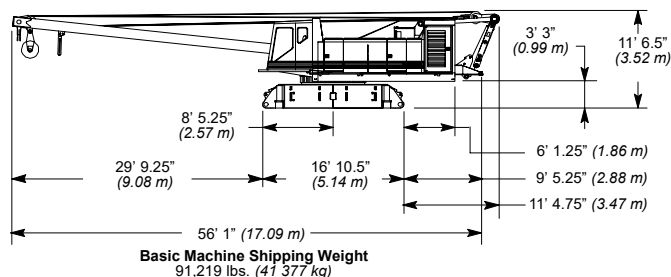
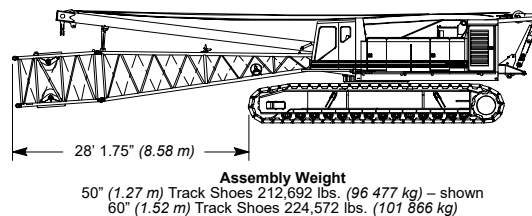
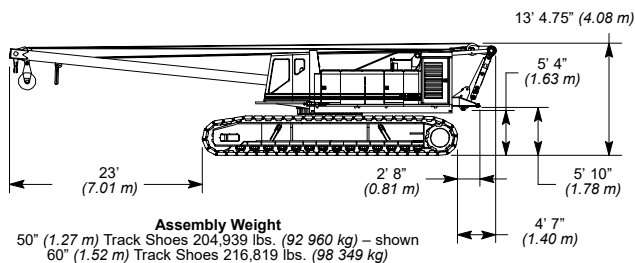
250-Ton (227 metric ton)

HYLAB Series



Link-Belt CONSTRUCTION EQUIPMENT

LS-278H Machine Transport Weights



Base Counterweight	31,000 lbs. (14 061 kg)
Base Counterweight + 4 Wing Counterweights	83,000 lbs. (37 649 kg)
Base Counterweight + 8 Wing Counterweights	135,000 lbs. (61 236 kg)



Link-Belt CONSTRUCTION EQUIPMENT

LS-278H Transportation Weights – approximate

Base Machine: Jacking system with four floats, 18-part bail assembly, 50 gallons (189 L) of fuel, 30' (9.14 m) live mast, 18-part boom hoist reeving, boom backstops, auxiliary lifting bail, 1,025' (312.4 m) front hoist rope and 850' (259.1 m) rear hoist rope.

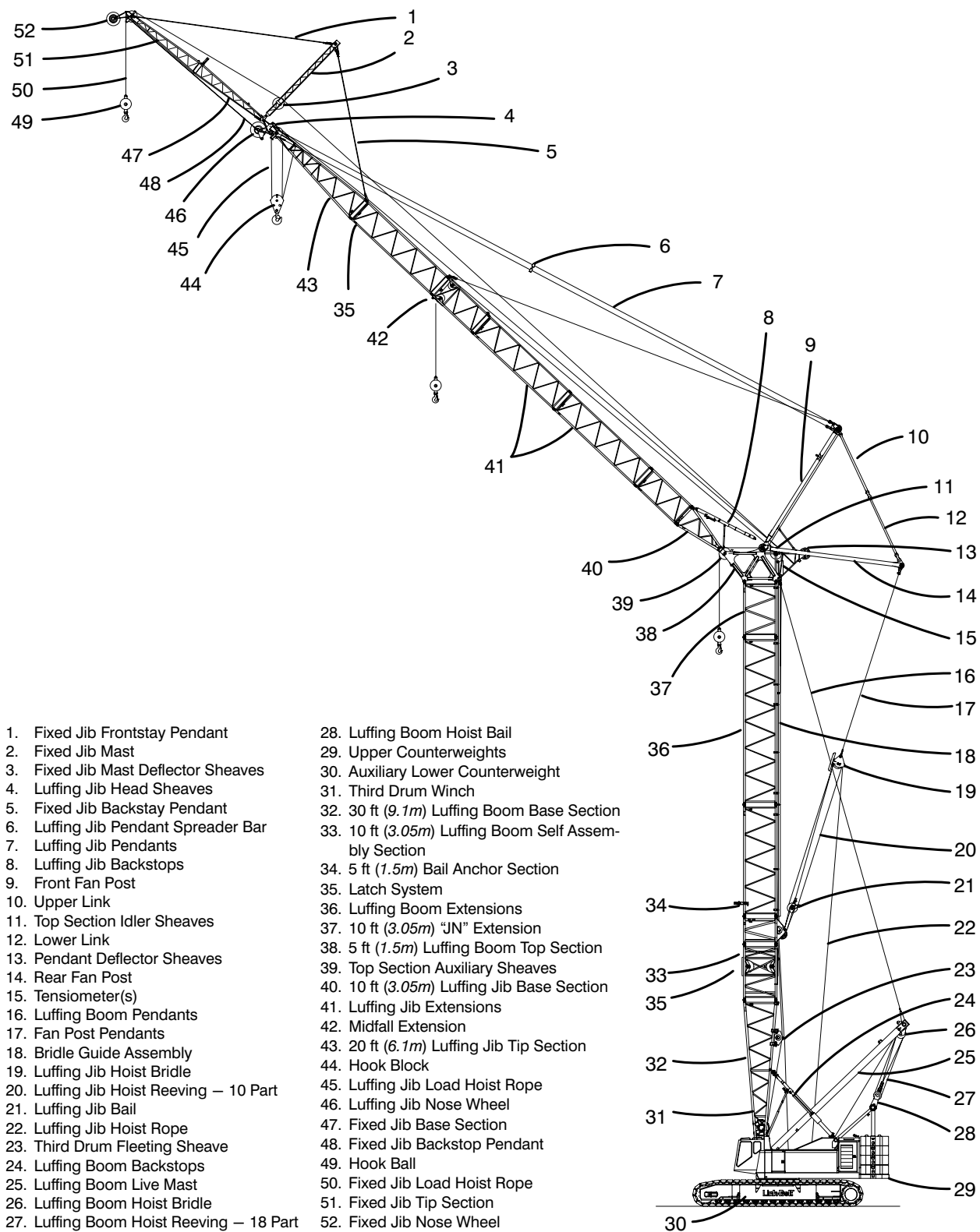
Item Description	Gross Weight		Transport Loads										Notes and Load Summary
	lb.	kg.	1	2	3	4	5	6	7	8	9	10	
Base Machine	91,219	41 376	1										Numbers in the load columns to the left represent quantities.
Add treadmember with 50" (1.27 m) pads – 2 required	56,860	25 791		1	1								
Add 60" (1.52 m) shoes in place of standard – 2 required	5,940	2 694											Estimated transport assumes the load out consist of 230' (70.1m) of tube boom + 75' (22.86m) of jib with full counterweight.
Add 31,000 lbs. (14 061 kg) base counterweight	31,000	14 061				1							
Add 13,000 lbs. (5 897 kg) wing counterweight – 8 required	13,000	5 897					2	2	2	1	1		Support loads were targeted at 45,000 lb (20 412kg), 8'-6" (2.6m) wide, 48' (14.6m) long, and 13'-6" (4.1m) high using a drop deck trailer. This may vary depending on state laws, empty truck/trailer weights, and style of trailer.
Add treadmember ctwt. for 50" track shoes – 2 required	22,000	9 979								1	1		
Add treadmember ctwt. for 60" track shoes – 2 required	18,500	8 391											Estimated weights vary by +/- 2%.
Add third drum ready base section	4,912	2 228				1							
Add 30' (9.14 m) top section with six head sheaves	5,612	2 546					1						Estimated Total Load of #1 91,219 lbs. (41 376 kg)
Add 10' (3.10 m) "JE" wall ext. with pins and pendants	1,727	783											
Add 10' (3.05 m) "JE" wall ext. with sheaves, pins and pendants	3,251	1 474				1							Estimated Total Load of #2 56,860 lbs. (25 791 kg)
Add 20' (6.10 m) "JE" wall ext. with pins and pendants	2,514	1 140					1					1	
Add 30' (9.14 m) "JE" wall ext. with pins and pendants	3,454	1 567										1	Estimated Total Load of #3 56,860 lbs. (25 791 kg)
Add 40' (12.19 m) "JE" wall ext. with pins and pendants	4,567	2 072										1	
Add 50' (15.24m) "JE" wall ext. with pins and pendants	5,567	2 525						1	1	1			Estimated Total Load of #4 44,482 lbs. (20 358 kg)
Add auxiliary tip extension	980	445											
Add hydraulic third drum plumbing	500	227											Estimated Total Load of #5 42,413 lbs. (19 238 kg)
Add hydraulic third drum without rope	2,372	1 076											
Add 30' (9.14 m) tubular jib	2,360	1 070										1	Estimated Total Load of #6 32,449 lbs. (14 719 kg)
Add 10' (3.10 m) jib extension	259	117					1						
Add 20' (6.14 m) jib extension	441	200						2					Estimated Total Load of #7 31,576 lbs. (14 319 kg)
Add hammerhead top section with 10' transition section	5,514	2 501											
Add auxiliary hammerhead tip extension	976	443										1	Estimated Total Load of #8 40,567 lbs. (18 401 kg)
Add jib wire rope 1.12" x 850' type "RB"	2,338	1 060										3	
Add jib wire rope 1" x 1,210' type "RB"	2,626	1 191											Estimated Total Load of #9 39,567 lbs. (17 947 kg)
Add jib wire rope 1" x 1,210' type "DB"	2,130	966											
Add drum wire rope 1" x 1,050' type "RB"	2,279	1 034											Estimated Total Load of #10 8,328 lbs. (3 778 kg)
Add 15-ton (13.6 mt) Hook Ball – Non Swivel	1,400	635					1						
Add 15-ton (13.6 mt) Hook Ball – Swivel	1,400	635											Estimated Total Load of #11 31,576 lbs. (14 319 kg)
Add 60-ton (54 mt) 2 Sheave Hook Block	5,720	2 595				1							
Add 150-ton (136 mt) 6 Sheave Hook Block	1,400	635											Estimated Total Load of #12 31,576 lbs. (14 319 kg)
Add 200-ton (181 mt) 6 Sheave Hook Block	3,860	1 751											
Add 250-ton (227 mt) 6 Sheave Hook Block	5,650	2 563					1						Estimated Total Load of #13 40,567 lbs. (18 401 kg)
Add 100 gallons of fuel	724	328											
Add left and right side catwalks	537	244										1	Estimated Total Load of #14 39,567 lbs. (17 947 kg)
Remove 4 floats for jacking system	-235	-107											
Remove jacking system without floats	-1,739	-789											Estimated Total Load of #15 39,567 lbs. (17 947 kg)
Remove front hoist rope	-2,398	-1 088											
Remove rear hoist rope	-1,700	-771											Estimated Total Load of #16 8,328 lbs. (3 778 kg)
Remove auxiliary lifting bail	-410	-186											

Notes:

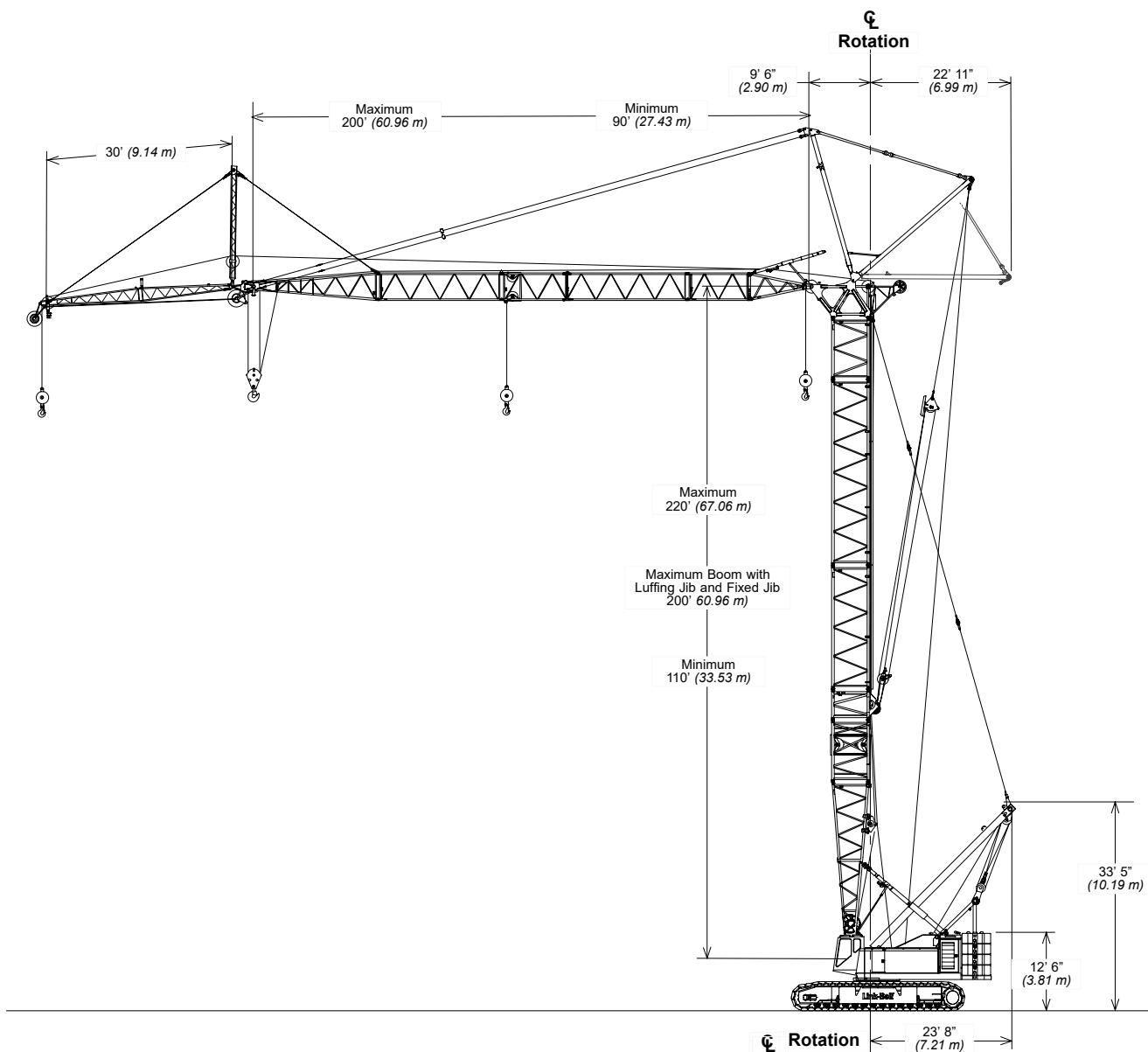
- Estimated transport loads assume the load out consist of 330' (100.58 m) of main boom plus 100' (30.48 m) of jib with full counterweight.
- Support loads were targeted at 45,000 lbs. (20 412 kg), 8' 6" (2.59 m) wide, 48' (14.63 m) long and 13' 6" (4.11 m) high using a single drop trailer. This may vary depending on state laws, empty truck/trailer weights and style of trailer.
- Estimated loads may vary by +/- 2%.

LS-278H Machine Working Weight		50" (1.27 m) Track Shoes		60" (1.52 m) Track Shoes	
Option	Description	Gross Weight lbs. (kg)	Ground Bearing Pressure psi (kg/cm ²)	Gross Weight lbs. (kg)	Ground Bearing Pressure psi (kg/cm ²)
1	Base Machine equipped with 60' (18.29 m) of open throat tubular boom, live mast, 135,000 lbs of upper counterweight, lower counterweights, 1,025' (312.42 m) front hoist rope, 850' (259.08 m) rear hoist rope, 250-ton (226.8 mt) hook block, 148 gallons (560.2 L) of fuel, and 200 lbs. (90.7 kg) operator.	401,560 (182 144)	12.11 (0.85)	406,440 (184 358)	10.22 (0.72)
2	Option #1 plus midpoint pendants, and 270' (82.3 m) of boom extensions to obtain 330' (100.58 L) of main boom.	434,561 (197 114)	13.11 (0.92)	439,441 (199 327)	11.04 (0.78)
3	Option #2 plus 100' (30.48 m) of jib and 15-ton (13.6 mt) hook ball – subtract 30' (9.14 m) of boom extension and midpoint pendants to obtain maximum 300' + 100' (91.44 + 30.48 m) of main boom + jib.	436,449 (197 970)	13.16 (0.93)	441,329 (200 184)	11.09 (0.78)
4	Base Machine equipped with 45' (13.72 m) of Hammer head tube boom, live mast, 135,000 lbs. of upper counterweight, lower counterweights, 1,025' (312.42 m) front hoist rope, 850' (259.08 m) rear hoist rope, 250-ton (226.8 mt) hook block, 148 gallons (560.2 L) of fuel, and 200 lbs. (90.7 kg) operator.	401,461 (182 100)	12.11 (0.85)	406,341 (184 313)	10.21 (0.72)
5	Option #4 plus "B" counterweight and 200' (60.96 m) of boom extensions to obtain 245' (74.68 m) of main boom.	427,381 (193 857)	12.89 (0.91)	432,261 (196 070)	10.86 (0.76)
Notes:					
1. Ground bearing pressure is based on the total weight distributed evenly over the track contact area.					
2. Total contact area for 50" (1.27 m) track shoes is 33,158 in ² (213 922 cm ²) and 60" (1.52 m) track shoes is 39,788 in ² (256 696 cm ²)					

LS-278H Luffing Attachment Nomenclature



LS-278H Luffing Attachment Dimensions



Attachment Options

60' – 330' (18.29 – 100.58 m) Tubular Boom

Basic Boom – 60' (18.29 m) two-piece design that utilizes a 30' (9.14 m) base section and a 30' (9.14 m) open throat top section with in-line connecting pins on 80" (2.03 m) wide and 68" (1.73 m) deep centers.

- 250-ton (226.8 mt) maximum capacity
- Max boom tip height of 333' (101.5 m)
- Boom feet on 66" (1.67 m) centers
- 4.25" (10.79 cm) diameter chords

- Lugs on base section to attach carrying links
- Skywalk platform
- Deflector roller on top section
- Rigid sheave guards
- Six, 21" (0.53 m) root diameter steel sheaves mounted on sealed anti-friction bearings
- Oil filled mechanical boom angle indicator

Boom Extensions – The following table provides the lengths available and the suggested quantity to obtain maximum boom in 10' (3.05m) increments. Midpoint pendant connections are required at 140' (42.67 m) for boom lengths 250' (72.6 m) and longer.

Tube Boom Extensions	Suggested Quantity for Maximum Boom
10' (3.05 m)	1
20' (6.10 m)	2
30' (9.14 m)	2
40' (12.19 m)	2

- Deflector roller on top of each section
- Two rollers on 40' (12.19 m) and 50' (15.24 m) extensions.
- Appropriate length pendants
- The optional 10' (3.05 m) extension with lifting sheaves is used for self assembly/disassembly instead of using live mast and auxiliary lifting bail.

■ 45' – 245' (13.72 – 74.68 m) Hammer Head Boom

Basic Boom – 45' (13.72 m) three-piece design that utilizes a 30' (9.14 m) base section, a 10' (3.05 m) taper section, and a 5' (1.52 m) hammer head top section. Taper section pins to standard base section with in-line connecting pins on 80" (2.03 m) wide and 68" (1.73 m) deep centers.

- 200-ton (178.6 mt) maximum capacity
- Maximum boom tip height is 243' (74.07 m)
- 4.25 (10.80 m) tubular "JE" wall chords
- Lugs on base section to attach carrying links.
- Skywalk platform
- Deflector roller on top section
- Rigid sheave guards
- Six, 21" (0.53 m) root diameter steel sheaves mounted on sealed anti-friction bearings.
- Oil-filled mechanical boom angle indicator.

Hammer Head Boom Extensions – The following table provides the lengths available and the suggested quantity to obtain maximum boom in 10' (3.05 m) increments. Extensions are common with open throat extensions.

Hammer Head Boom Extensions "JE"	Suggested Quantity for Maximum Boom
10' (3.05 m) with or without lifting sheaves	1
20' (6.10 m)	1
30' (9.14 m)	1
40' (12.19 m)	0
50' (15.24 m)	3

- Deflector roller on top of each section. Two rollers 40' (12.19 m) and 50' (15.24 m) extensions.
- Appropriate length pendants
- 10' (3.05 m) extension with lifting sheaves is available for self-assembly and disassembly.

■ 30' – 100' (9.14 – 30.48 m) Tubular Jib

Basic Tube Jib – 30' (9.14 m) two-piece design that utilizes a 15' (4.57 m) base section and a 15' (4.57 m) top section with in-line connecting pins on 32" (0.81 m) wide and 24" (0.61 m) deep centers. Designed to be used on the open throat top section only.

- 30-ton (27.2 mt) maximum capacity
- Maximum tip height of tube boom + jib is 403.8' (123.1 m).
- Jib offset angles at 5, 15 and 25 degrees
- 2.25" (57 mm) tubular chords
- One 18.5" (0.47 m) root diameter steel sheave mounted on sealed anti-friction bearings.

Jib Extensions – The following table provides the lengths available and the suggested quantity to obtain maximum jib in 10' (3.05 m) increments.

Jib Extensions	Suggested Quantity for Maximum Boom
10' (3.05 m)	1
20' (6.10 m)	3

- Wood wear block on top of each section.
- Appropriate length pendants.

■ 90' – 200' (27.43 – 50.29 m) Luffing Jib

Basic Luffing Jib – 90' (24.38 m) five-piece design utilizes a 5' (1.52 m) luffing boom top section, 10' (3.05 m) base section, 10' (3.05 m) extension, 20' (6.01 m) extension, 30' (9.14 m) extension, and 20' (6.10 m) top section with in-line connecting pins. Boom extensions are 50" (1.12 m) wide and 60" (1.37 m) deep at the centers.

- 54-ton (24.5 mt) maximum capacity
- Working lengths of 90' (24.38 m) to 200' (48.77 m)
- Top section includes mounting lugs for all attachment options.
- Lugs on base section to attach fan-post transport links.
- Two polyamide 24" (0.46 m) diameter luffing jib head sheaves
- Two polyamide 25" (0.54 m) diameter luffing boom auxiliary head sheaves
- Pin on nose wheel
- Ten-part luffing jib hoist.
- 1.25" (31.75 mm) diameter type "BC" pendants

Luffing Jib Extensions – The following table provides the lengths available and the suggested quantity to obtain the maximum luffing jib in 10' (3.05 m) increments. Midpoint pendants are not required.

Luffing Jib Extensions	Suggested Quantity for Maximum Boom
10' (3.05 m)	1
20' (6.10 m)	1
30' (9.14 m)	2
40' (12.19 m)	2

Midfall Extension – The midfall (if equipped) consists of a 10' (3.05 m) luffing jib extension equipped with load hoisting machinery and provides an auxiliary load hoist location for short radius light duty lifting.

- Midfall capacities and suspension adjustments are available for luffing jib lengths of 110 – 200' (33.5 – 61.0 m).
- Midfall capacities range from 18,800 lbs. (8 528 kg) to 9,400 lbs. (4 264 kg).

■ Luffing Boom

- Common base and extensions as open throat boom
- 10' (3.05 m) Self-Assembly section required for bail anchor
- Working angles of 90, 85, 80, 75, 70, and 65 degrees.
- Working lengths of 110' (25.91 m) to 220' (50.29 m)
- 1.25" (34.92 mm) diameter type "BC" pendants; same as open throat boom.

Luffing Boom Extensions – The following table provides the lengths available and the suggested quantity to obtain the maximum

luffing boom in 10' (3.05 m) increments. Midpoint pendants are not required.

Luffing Boom Extensions	Suggested Quantity for Maximum Boom
10' (3.05 m) *	2
20' (6.10 m)	1
30' (9.14 m)	1
40' (12.19 m)	1
50' (15.24 m)	3
* : 10' (3.05 m) Must be the Self-assembly and "JN" section.	

- Rear hoist drum becomes luffing jib hoist
- Optional third drum provides second working hoist line, if required.
- Designed for self-assembly
- Luffing jib hoist bridge and bail can remain reeved for machine transport
- Job site mobility with attachment
- Rolled out or rolled under erection methods
- Compact transport module.

■ Auxiliary 5' (1.5 m) Tip Extension

Designed to use in place of jib to provide clearance between working hoist lines. The horsehead style extension is equipped with a single 28.3" (0.72 m) root diameter steel sheaves mounted on sealed anti-friction bearing. Maximum capacity is 25-tons (22.32 mt).

■ Auxiliary Hammer Head Tip Extension

Designed to use in place of jib to provide clearance between working hoist lines. The extension is equipped with a single 20" (0.51 m) root diameter steel sheaves mounted on sealed anti-friction bearing. Maximum capacity is 17.5-tons (15.9 mt).

■ Boom Hoist System

Designed to lift off maximum boom or maximum boom plus jib unassisted. Operates up to a maximum boom angle of 82 degrees. Boom hoist limit system limits maximum boom angle operation.

- Hydraulic controlled retractable gantry frame.
- 18-part reeving with 1" (2.54 cm) type "W" wire rope
- Bridge assembly and 35' (10.67 m) live mast
- Four 1.25" x 26' 4" (3.18 cm x 8.03 m) pendants
- Two 1" x 112' 10" (25.4 cm x 34.39 m) midpoint pendants
- Tubular spring-buffered boom backstops (rigid type)
- Sheaves contain sealed anti-friction bearings
- Boom speed from minimum to maximum operating radius for 150' (45.72 m) of open throat boom is 84 seconds.

Revolving Upper Structure

■ Frame

All welded steel frame with precision machined surfaces for mating parts.

■ Engine

Detroit Diesel Series 60 – 12.7 Liter with oil filter, oil cooler, air cleaner, fuel filter, water separator, tachometer and electrical shutdown.	
Number of cylinders	6
Bore and stroke – in. (mm)	5.12" x 6.00" (130 x 152)
Piston displacement – cu. in. (cm ³)	778 (12 751)
Max brake hp (kw)	450 (336) @ 1,800 r.p.m.
Peak torque – ft./lb. (joules)	1,550 (2 102) @ 1,350 r.p.m.
Electrical System	12V
Batteries	4, Group 31 rated @ 725 cc amps at 0 deg. (F)
Alternator	130 amps
Approximate fuel consumption	Gal./hr. (L/hr)
100% HP	20.09 (76.05)
75% HP	15.06 (57.01)
50% HP	10.04 (38.01)
25% HP	5.02 (19.00)

■ Hydraulic System Specifications

Hydraulic Pumps – The pump arrangement is designed to provide hydraulically powered functions allowing positive, precise control with independent or simultaneous operation of all crane functions.

- One variable displacement pump operating at 5,225 psi (36 025 kPa) and 94 gal/min (355 L/min) powers front hoist drum.
- One variable displacement pump operating at 5,100 psi (35 163 kPa) and 94 gal/min (355.8 L/min) powers the rear hoist drum.
- One variable displacement pump operating at 4,600 psi (31 717 kPa) and 73 gal/min (278 L/min) powers the boom hoist drum.
- Two variable displacement pumps operating at 5,000 psi (34 474 kPa) and 52 gal/min (197 L/min) powers the travel system.
- One variable displacement pump operating at 4,350 psi (29 993 kPa) and 73 gal/min (276 L/min) powers the swing system.
- One fixed displacement gear type pump operating at 1,250 psi (88 kg/cm²) and 8 gal/min (32 L/min) powers the pilot control system.

Pump Control ("Fine Inching") mode – Special pump setting, selectable from operator's cab, that allows very slow movements of front and rear hoist for precision work.

Hydraulic Reservoir – 144 gal (545 L), equipped with sight level gauge. Diffusers built in for deaeration.

Filtration – One 10 micron, full flow, line filter in the return line of the hydraulic reservoir.

Counterbalance Valves – All hoist motors are equipped with counterbalance valves to provide positive load lowering and prevent accidental load drop if the hydraulic pressure is suddenly lost.

■ Front Hoist Drums

Drum contains a pilot controlled, bi-directional, axial piston motor and a planetary gear reduction unit to provide positive control under all load conditions.

- Power up/down operation mode
- Spring applied, hydraulically released, disc-type brake controlled automatically
- 1.12" (28.4 mm) grooved "Lebus" lagging
- Drum pawl controlled automatically
- Electronic drum rotation indicator
- Mounted on anti-friction bearings
- 20.88" (0.53 m) root diameter
- 36" (0.91 m) flange diameter
- 31.94" (0.81 m) width

■ Rear Hoist Drums

Drum contains a pilot controlled, bi-directional, axial piston motor and a planetary gear reduction unit to provide positive control under all load conditions.

- Power up/down operation mode
- Spring applied, hydraulically released, disc-type brake controlled automatically
- 1" (25.4 mm) grooved "Lebus" lagging
- Drum pawl controlled automatically
- Electronic drum rotation indicator
- Mounted on anti-friction bearings
- 30.88" (0.78 m) root diameter
- 40.5" (1.03 m) flange diameter
- 31.94" (0.81 m) width

■ Optional Third Hoist Drum

The hydraulic winch is mounted in the boom base section and is used in conjunction with a fleeting sheave and three sheave assembly to run the wire rope over the boom top section.

- Power up/down operation mode
- Automatic brake mode (spring applied, hydraulically released)
- Smooth drum
- Electronic drum rotation indicator
- Mounted on anti-friction bearings
- 12.75" (0.32m) root diameter
- 22.75" (0.58m) flange diameter
- 17" (0.43m) width

■ Boom Hoist Drum

Contains a pilot controlled, bi-directional, axial piston motor and a planetary gear reduction unit to provide positive control under all load conditions.

- Spring applied, hydraulically released, disc type brake controlled automatically
- 1" (2.54 cm) grooved lagging
- Drum pawl controlled automatically
- Mounted on anti-friction bearings
- Electronic drum rotation indicator
- 20.88" (0.53 m) root diameter
- 31" (0.79 m) flange diameter
- 30.75" (0.78 m) width

■ Swing System

Contains a pilot controlled bi-directional axial piston motors and the planetary gear reduction unit to provide positive control under all load conditions.

- Spring applied, hydraulically released, 360 degree multi-plate brake
- Free swing mode when lever is in neutral position
- 360 degree positive house lock
- Audio/visual swing alarm
- Maximum swing speed is 2.4 rpm

■ Upper Counterweight

Consist of a nine-piece design. Easily lowered to the ground using a remote control box to hydraulically retract the gantry. The design allows division of 135, 000 lbs. (61 235 kgs) of counterweight into lightweight modules for transportation. This design allows for operating with less than maximum counterweight.

- 31,000 lbs. (14 061 kg) base counterweight
- Eight, 13,000 lbs. (5 897 kg) wing counterweights
- Capacity charts exist for 135,000 lbs. (61 235 kg), 83,000 lbs. (37 648 kg) or 31,000, (14 061 kg).

■ Operator's Cab and Controls

Fully enclosed modular steel compartment is independently mounted and insulated to protect against vibration and noise.

- All tinted/tempered safety glass
- Sliding entry door
- Swing up roof window with wiper
- Door and window locks
- Heater with circulating fan
- Engine instrumentation panel (tachometer, fuel gauge, voltmeter, engine oil pressure, engine water temperature, hydraulic oil temperature, hour meter and service monitor system)
- Electronic drum rotation indicators

(continued on page 9)



LS-278H Load Hoisting Performance

Available line speed and line pull – based on Cummins N14–C440 engine at 1,800 rpm. Line pulls are not based on wire rope strength. See Wire Rope Capacity Chart for maximum permissible single part-of-line working loads.

Rope Layer	Front Drum – 1.12" (28.45 mm) Wire Rope											
	Maximum Line Pull		No Load Line Speed		Full Load Line Speed		Pitch Diameter		Layer		Total	
	lb.	kg	ft./min.	m/min.	ft./min.	m/min	in.	mm	ft.	m	ft.	m
1	44,390	22 403	287	87.5	142	43.3	22	558.8	148	45.1	148	45.1
2	44,808	20 325	316	96.3	157	47.9	24.25	616.1	164	50.0	312	95.1
3	41,003	18 599	346	105.5	171	52.1	26.5	673.1	179	54.6	491	149.7
4	37,794	17 143	375	114.3	186	56.7	28.75	730.3	194	59.1	684	208.5
5	35,051	15 899	404	123.1	200	61.0	31	787.4	209	63.7	893	272.2
6	32,679	14 823	434	132.3	215	65.5	33.25	844.6	224	68.3	1118	340.8
7	30,608	13 884	463	141.1	229	69.8	35.5	901.7	239	72.8	1357	413.6

NOTE: The seventh layer is for storage only

Rope Layer	Rear Drum – 1" (25.4 mm) Wire Rope											
	Maximum Line Pull		No Load Line Speed		Full Load Line Speed		Pitch Diameter		Layer		Total	
	lb.	kg	ft./min.	m/min.	ft./min.	m/min	in.	mm	ft.	m	ft.	m
1	33,206	15 062	416	126.8	206	62.8	31.88	809.8	242	73.8	242	73.8
2	31,245	14 173	442	134.7	219	66.8	33.88	860.5	257	78.3	499	152.1
3	29,503	13 383	468	142.6	232	70.7	35.88	911.4	272	82.9	771	235
4	27,945	12 676	494	150.6	245	74.7	37.88	962.1	287	87.5	1058	322.5

NOTE: The fourth layer is for storage only

Rope Layer	Boom Hoist Drum – 1" (25.4 mm) Wire Rope											
	Maximum Line Pull		No Load Line Speed		Full Load Line Speed		Pitch Diameter		Layer		Total	
	lb.	kg	ft./min.	m/min.	ft./min.	m/min	in.	mm	ft.	m	ft.	m
1	42,966	19 489	239	72.8	120	36.6	21.88	555.8	160	48.8	160	48.8
2	39,367	17 857	261	79.6	131	39.9	23.88	606.6	174	53.0	334	101.8
3	36,324	16 477	283	86.3	142	43.3	25.88	657.4	189	57.6	523	159.4
4	33,718	15 294	305	93.0	153	46.6	27.88	708.2	204	62.2	727	221.6
5	31,461	14 270	327	99.7	164	50.0	29.88	759.0	218	66.4	945	288.0

Rope Layer	Third Hoist Drum – 1" (25.4 mm) Wire Rope											
	Maximum Line Pull		No Load Line Speed		Full Load Line Speed		Pitch Diameter		Layer		Total	
	lb.	kg	ft./min.	m/min.	ft./min.	m/min	in.	mm	ft.	m	ft.	m
1	29,090	13 195	271	82.6	230	70.1	21	533.4	131	39.9	131	39.9
2	26,560	12 048	297	90.5	251	76.5	23	584.2	143	43.6	274	83.5
3	24,440	11 086	322	98.1	273	83.2	25	635.0	156	47.5	430	131.1
4	22,630	10 265	348	106.1	295	89.9	27	685.8	168	51.2	598	182.3
5	21,070	9 557	374	114.0	317	96.6	29	736.6	181	55.2	779	237.4
6	NOTE: Storage layer only								193	58.8	972	296.3

Wire Rope Application	Diameter		Length		Type	Maximum Permissible Load	
	in	mm	ft	m		lbs	kg
Boom Hoist	1	25.4	870	265.2	W	11,770	5 339
Front Hoist	1.125	28.4	1025	312.4	LB	40,850	18 529
Rear Hoist (Optional)	1	25.4	850	259.1	RB	22,760	10 324
Rear Hoist (Optional)	1	25.4	1210	368.8	RB	22,760	10 324
Rear Hoist (Optional)	1	25.4	1210	368.8	DB	29,540	13 399
Third Drum (Optional)	1	25.4	1050	320.0	RB	22,760	10 324

Rope Type	Description
W	6 x 26 (6 X 19 Class) – Extra Improved Plow Steel – Preformed – Independent Wire Rope Core – Right Lay – Alternate Lay
LB	6 x 26 (6 X 19 Class) – Filler Wire – Preformed – Independent Wire Rope Core – Right Lay – Regular Lay
RB *	19 x 19 Rotation Resistant – Extra–Extra Improved Plow Steel – Preformed – Right Lay – Regular Lay
DB	6 x 26 (6 X 19 Class) – Warrington Seale – Extra Improved Plow Steel – Preformed – Right Lay – Regular Lay

* – Use of swivel ball is not recommended.

Revolving Upper Structure (continued from page 7)

■ Operator's Cab and Controls (continued)

- Six way adjustable seat with seat belt
- Dry chemical fire extinguisher
- Twist lock hand and foot throttle
- Hand and foot operated boom hoist control
- Pilot operated arm chair single axis control levers
- Swing lever with swing brake and horn located on handle
- 12-volt power outlet

■ Load Indicator / Rated Capacity Limiter

Standard Equipment – PAT DS-350/1334 modular system that includes two lineriders, angle sensor, computer, graphic

display, and anti-two block equipment to provide the following information.

- Graphic representation of machine configuration.
- Step-by-step machine set-up
- Boom length & angle
- Jib length & angle
- Load on hook
- Rated load
- Load radius
- Tip height
- Anti-two block warning & function limiters
- Operation mode
- Provides audio/visual warning when the load on hook is within 90% of the crane's rated load.
- Provides audio/visual warning and limits functions when the load on hook is at 100% of the crane's rated load.
- Operator settable alarms include minimum

and maximum boom angle, maximum tip height, left and right swing, and range control (obstacle avoidance). These alarms provide an audio/visual warning only.

Note: Function limiters are activated for anti-two block and overload conditions. These limiters are designed to prevent hoist-up on front and rear drums and boom down.

■ Additional Equipment – Standard

- 93" (2.36 m) outside diameter turn-table bearing
- Front, right and left side removable catwalks
- 143 (usable) U.S. gallons (541.3 L) fuel tank
- Machine lifting links

Lower Structure

■ Carbody

All welded box construction frame with precision-machined surfaces for turntable bearing and rotating joint.

- 10' (3.05 m) overall width
- 16' 10" (5.13 m) overall length
- Hydraulic tubing and hoses for travel system
- Four ground controlled hydraulic jacks with 24" (610 mm) aluminum floats

■ Treadmembers

All welded, precision-machined assemblies that are attached to the carbody with hydraulic assist pin pullers..

- 21' (6.40 m) extended gauge
- 30' 5" (9.27 m) overall length
- 50" (1.27 m) wide track shoes – standard
- 60" (1.52 m) wide track shoes – optional

- 14 sealed (oil filled) track rollers per treadmember
- Sealed (oil filled) idler and drive planetaries
- Compact travel drives
- Hydraulic adjusting tracks
- Ladder assembly
- Lifting links

Travel and Steering – Each treadmember contains a pilot controlled, bi-directional, axial piston motor and a planetary gear reduction unit to provide positive control under all load conditions.

- Individual control provides smooth, precise maneuverability including full counter-rotation.
- Spring applied, hydraulically released disc type brake controlled automatically.
- Maximum travel speed is 0.7 mph. (1.6 km/h).
- Designed to 30% gradeability.

■ Lower Counterweight

The design consist of a counterweight that quickly hangs on each treadmember for increased 360 degree capacities.

- Two, 22,000 lbs. (9 979 kg) counterweight are for 50" (1.27 m) track shoes.
- Two, 18,500 lbs. (8 391 kg) counterweights are for 60" (1.52 m) track shoes.
- Capacity charts exist for 135,000 lbs (61 235 kg) of upper counterweight plus lower counterweights..



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Lifting Capacities

Hydraulic Lattice Boom Crawler Crane

LS-278H

250-ton (227 metric ton)

Tube Boom Capacities

60–330 ft. (18.29 – 100.58 m)

35 ft. (10.67 m) Live Mast Capacities

- On Outrigger Jacks
- On Side Frames

10 ft. (3.05 m) Extension Lifting Capacities

- On Outrigger Jacks
- On Side Frames

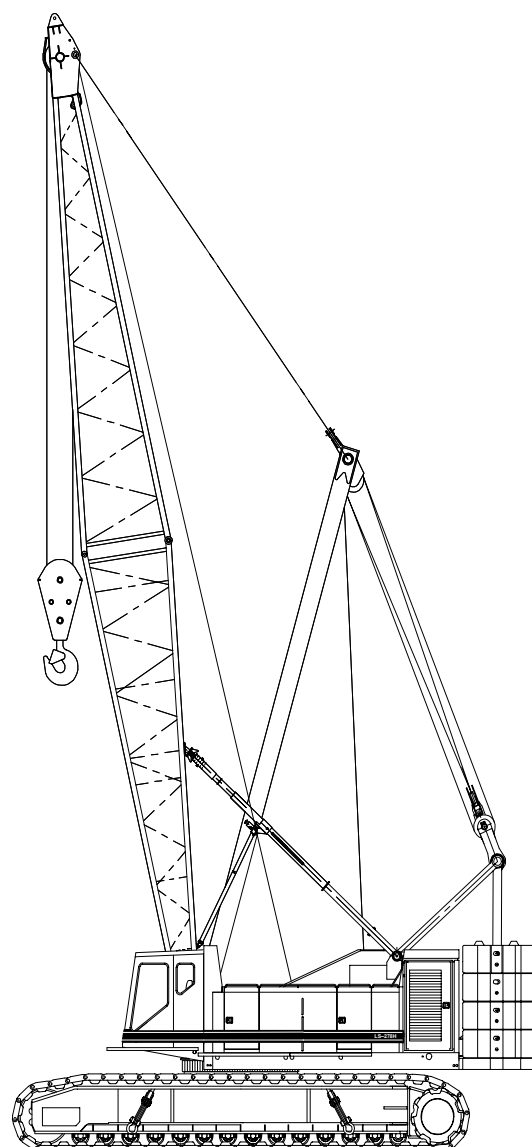
5 ft. (1.52 m) Auxiliary Tip Section

Duty Cycle Capacities

- 60 – 120 ft. (18.29 – 36.58 m)
- Clamshell / Magnet with 31K + 0 or 83K + 0 Counterweight

Tube Boom Capacities

- 60 – 330 ft. (18.29 – 100.58 m)
- 80 in. (2.03 m) Wide x 68 in. (1.72 m) Deep Boom
- 30 ft. (9.14 m) Open Throat Top Section
- 135K + LWR, 135K + 0, 83K + 0 and 31K + 0 Counterweight Combinations
- 360 degree and Blocked Over End
- 30 ft., 5 in. (9.27 m) Crawler Length



CAUTION: This material is supplied for reference use only. Operator must refer to in-cab Crane Rating Manual to determine allowable machine lifting capacities and operating procedures.



WARNING

READ AND UNDERSTAND THE OPERATOR'S AND SAFETY MANUAL AND THE FOLLOWING INSTRUCTIONS AND CHART VALUES 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. 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 the distributor.
3. The operator and other personnel associated with this crane shall read and fully understand the latest applicable American National Standards Institute (ANSI) safety standards for cranes.
4. All capacities listed in this book are in compliance with ASME/ANSI B30.5b-1991, SAE J987-April 1994, and SAE J765-October 1990.
5. The 35 ft. live mast must be used for all capacities in this Crane Rating Manual.
6. The least stable rated condition is over the side.
7. Booms may be erected and lowered over the end or over the side.
8. Do not operate at radii and boom lengths where the Crane Rating Manual lists no capacity. Do not use longer booms than those listed in this Crane Rating Manual. Any of the above can cause a tipping condition or boom failure.
9. Avoid excessive travel with lower counterweights installed on crane. Doing so may cause decreased travel torque and/or excessive wear to drive components.
10. These capacities apply only to the crane as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.

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, load weighing device, 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 5 ft. tip extension is attached, reduce capacities by values shown on Capacity Deductions For Lifting Off Main Boom Hook With 5 ft. Tip Extension Installed. See Operator's Manual for all limitations when raising or lowering attachment.
2. The crane capacities in the shaded areas are based on structural strength. The crane capacities in the non-shaded areas are based on stability ratings.
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. Deduction must be made for excessive reeving. Any reeving over minimum required (see Wire Rope Capacity) is considered excessive and must be accounted for when making lifts. Use working range diagram to estimate the extra feet of rope then deduct 2.4 lbs. for each extra foot of wire rope before attempting to lift a load.
4. Load ratings in this Crane Rating Manual are based on freely suspended loads and make no allowances for such factors as the effect of the wind, ground conditions, and operating speeds. The operator shall therefore reduce load ratings in order to take these conditions into account.
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 less than 20 mph and appropriately reduced for wind speeds greater than 20 mph. Extreme caution should be used when lifting heavy loads or loads with large wind sail area under high wind conditions (over 20 mph).

FOR OVER END 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 tread member sprockets/idlers, to prevent rocking.
2. Do not travel with a load.

TRAVELING WITH A LOAD:

1. All 360° Rotation capacities listed in this Crane Rating Manual are pick and carry capacities.
2. The boom must be pointing straight over one end of the crawler 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 swing lock and apply swing brake.
4. Travel slowly and cautiously on a firm and level supporting surface.

DEFINITIONS:

1. Load Radius: Horizontal distance from a projection of the axis 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 center line of rotation as shown on the Working Area 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

Parts of Line	1"			
	Type N	Type P	Type LB	Type RB
1	29,500	16,800	32,500	22,700*
2	59,000	33,600	65,000	45,400
3	88,500	50,400	97,500	68,100
4	118,000	67,200	130,000	90,800
5	147,500	84,000	162,500	113,500
6	177,000	100,800	195,000	136,200
7	206,500	117,600	227,500	158,900
8	236,000	134,400	260,000	181,600
9	265,500	151,200	292,500	204,300
10	295,000	168,000	325,000	227,000
11	324,500	184,800	357,500	249,700
12	354,000	201,600	390,000	272,400
13	383,500	218,400	422,500	295,100
14	413,000	235,200	455,000	317,800

Parts of Line	1-1/8"				
	Type N	Type P	Type LB	Type RB	Type SB
1	37,100	21,200	40,800	28,600*	52,400
2	74,200	42,400	81,600	57,200	104,800
3	111,300	63,600	122,400	85,800	157,200
4	148,400	84,800	163,200	114,400	209,600
5	185,500	106,000	204,000	143,000	262,000
6	222,600	127,200	244,800	171,600	314,400
7	259,700	148,400	285,600	200,200	366,800
8	296,800	169,600	326,400	228,800	419,200
9	333,900	190,800	367,200	257,400	471,600
10	371,000	212,000	408,000	286,000	524,000
11	408,100	233,200	448,800	314,600	576,400
12	445,200	254,400	489,600	343,200	628,800
13	482,300	275,600	530,400	371,800	681,200
14	519,400	296,800	571,200	400,400	733,600

LBCE Type	Description
N	6 X 25 (6X19 Class) – Filler Wire – Extra Improved Plow Steel – Pre-formed – I.W.R.C. – Right Lay – Regular Lay
P	19 X 7 Rotation Resistant – Extra Improved Plow Steel – Pre-formed – Wire Center Core
LB	6 X 25 (6 X 19 Class – Filler Wire – Pre-formed – I.W.R.C. – Right Lay – Regular Lay – Compacted Strands
RB*	19 X 19 Rotation Resistant – Extra, Extra Improved Plow Steel – Pre-formed Right Lay – Regular Lay, Swaged
SB*	8 Strand Rope – Parallel Lay Construction – Compacted Strand – Right Lay – Regular Lay

* Use of swivel end with one part of line is not recommended.

Notes:

- 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.

LIFTOFF CAPABILITIES

Counterweight	Over End Blocked (see note 3)	
	Maximum Boom (ft)	Max. Boom + Jib (ft)
135K + LWR	330	300 + 100
135K + 0	310	N/A
83K + 0	270	N/A
31K + 0	220	N/A

Counterweight	Over Side	
	Maximum Boom (ft)	Max. Boom + Jib (ft)
135K + LWR	310	270 + 100
135K + 0	300	N/A
83K + 0	250	N/A
31K + 0	200	N/A

Notes:

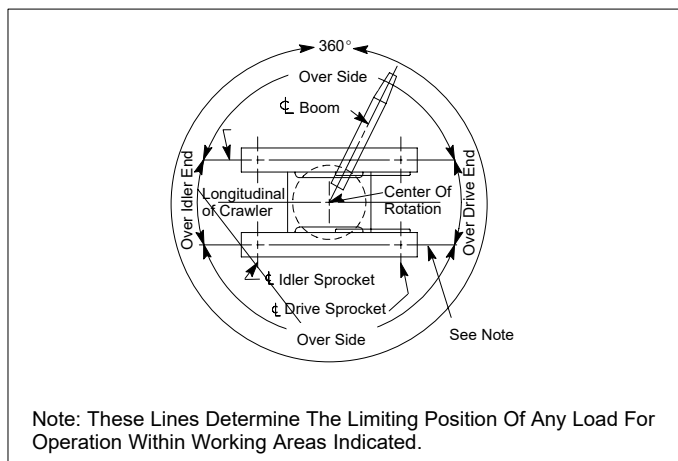
- For maximum stability, booms should be erected or lowered over the end with no load hook block on ground.
- Crane must be standing level on a firm supporting surface.
- Adequate blocking must be placed under the side frame sprockets/idlers to prevent rocking during liftoff over end.
- Open throat booms 250 ft. and longer require mid-point suspension pendants.
- Counterweight combinations are in "kips" (1 kip = 1000 lbs.)

ALLOWABLE COUNTERWEIGHT COMBINATIONS

Counterweight combinations are in kips (1 kip = 1000 lbs.)

	135,000 lbs. Upper Counterweight Full Lower Counterweight 135K+LWR
	135,000 lbs. Upper Counterweight No Lower Counterweight 135K+0
	83,000 lbs. Upper Counterweight No Lower Counterweight 83K+0
	31,000 lbs. Upper Counterweight No Lower Counterweight 31K+0

WORKING AREAS



LIVE MAST LIFTING CAPACITIES (WITHOUT COUNTERWEIGHT INSTALLED)

Live Mast		On Jacks (lb)	On Side Frames (lb)
Radius (ft)	Angle (deg)		
10.5	77.1	65,000	65,000
12	74.5	65,000	65,000
13	72.8	65,000	65,000
14	71.1	65,000	65,000
15	69.4	63,200	65,000
16	67.6	56,900	65,000
17	65.8	51,700	65,000
18	64.0	47,300	65,000
19	62.2	43,600	65,000
20	60.3	40,500	65,000
22	56.5	35,200	65,000
24	52.4	31,000	65,000
26	48.2	27,700	65,000
28	43.6	24,900	65,000
30	38.7	22,600	65,000
35	22.5	18,200	62,600

NOTES:

1. Refer to the Operator's Manual.
2. Live mast backstops must be in position and operative.
3. Hoist rope must contain 3 parts of 1in. diameter wire rope.
4. Use rear drum only. Reeve hoist line over mast cross member.
5. Capacities on jacks based on 85% stability. Capacities on side frames based on 75% stability.
6. Cast upper counterweights may only be picked in stacks of two (2). Maximum allowable load on counterweight handling bars = 26,000 lbs.
7. The crane shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the pontoons, when on jacks, spread the load to a larger bearing surface.
8. Rated capacities for 360° rotation.



WARNING

Do not install counterweights onto upper while crane is on carbody jack cylinders. Side frames must be installed and set before installing the counterweights.

10 FT. EXTENSION WITH LIFTING SHEAVES CAPACITIES – 360°

Load Radius (ft)	Boom Angle (deg)	On Jacks Without Cwt (lb)	On Side Frames With or Without Cwt (lb)
10.5	81.8	65,000	65,000
11	80.9	65,000	65,000
12	79.3	65,000	65,000
13	77.6	65,000	65,000
14	75.9	65,000	65,000
15	74.3	65,000	65,000
16	72.6	58,700	65,000
17	70.9	52,900	65,000
18	69.1	48,000	65,000
19	67.4	43,800	65,000
20	65.6	40,200	65,000
21	63.8	37,100	65,000
22	61.9	34,300	65,000
23	60.1	31,800	65,000
24	58.1	29,600	65,000
25	56.2	27,600	65,000
26	54.1	25,800	65,000
27	52.1	24,100	65,000
28	49.9	22,600	65,000
29	47.7	21,300	65,000
30	45.4	20,000	65,000
31	42.9	18,800	65,000
32	40.3	17,700	65,000
33	37.6	16,700	65,000
34	34.7	15,700	63,500
35	31.5	14,800	60,500
36	27.9	13,900	57,800

NOTES:

1. Refer to the Operator's Manual and Crane Rating Manual.
2. Reeve front or rear hoist line under mast cross member.
3. Capacities on jacks based on 85% stability. Capacities on side frames based on 75% stability.
4. The crane shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the pontoons, when on jacks, to spread the load to a larger bearing surface.
5. Cast upper counterweights may only be picked in stacks of two (2). Maximum allowable load on counterweight handling bars = 26,000 lbs.



WARNING

Do not install counterweights onto upper while crane is on carbody jack cylinders. Side frames must be installed and set before installing the counterweights.



DUTY CYCLE OPERATION NOTES FOR TUBULAR BOOM

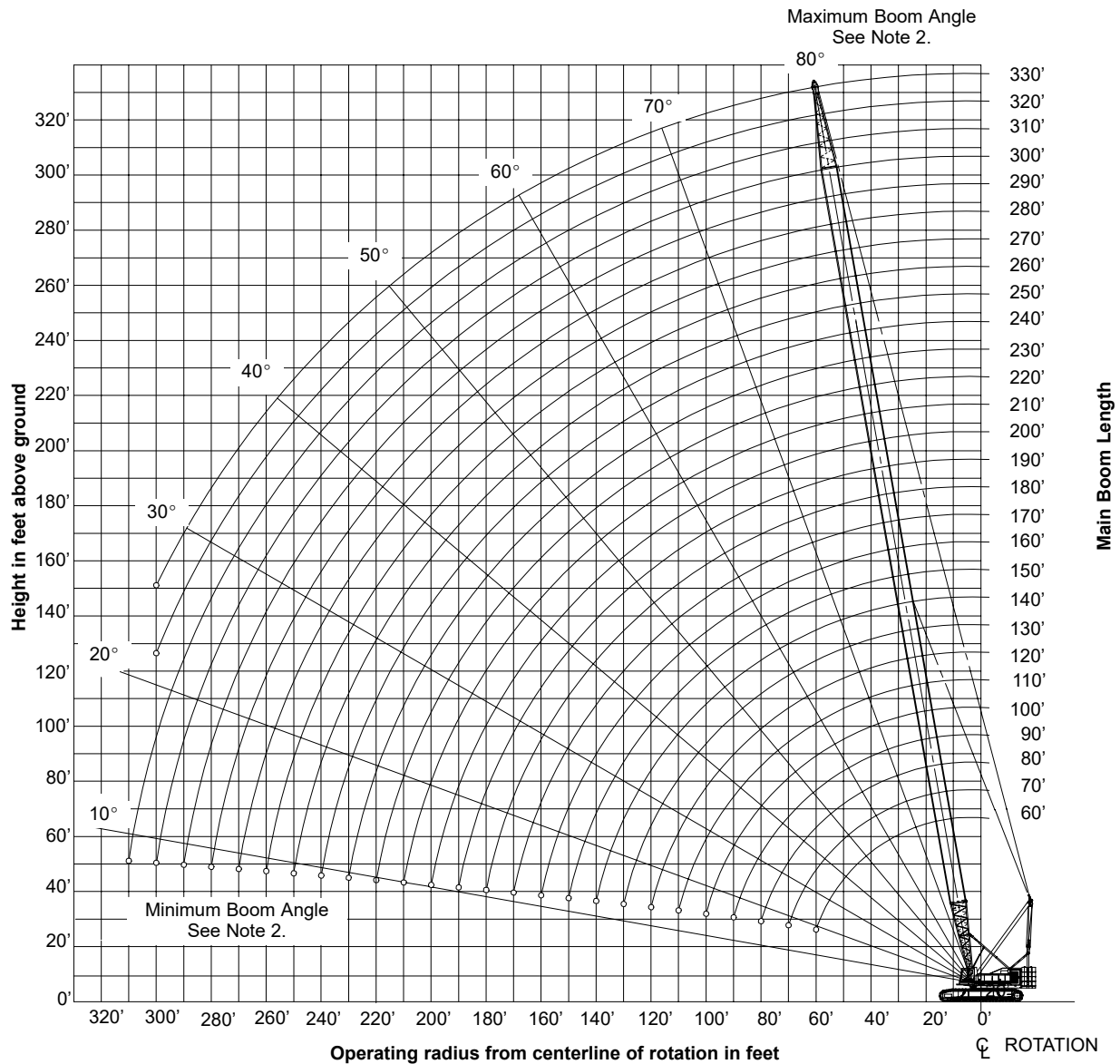
1. The capacities included in the following chart are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
2. Capacities are based on 75% of minimum tipping loads for dragline; 67.5% for clamshell and magnet.
3. Capacities are maximum recommended 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.
4. Weight of bucket, plus load must not exceed these capacities.
5. Dragline operation is not recommended with boom angles less than 35°.
6. Boom length for dragline/clamshell attachment operation should not exceed 120'.
7. Retractable high gantry must be fixed in raised position for all capacities on this chart.
8. These capacities apply to the machine as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.

DUTY CYCLE CAPACITIES FOR TUBULAR BOOM (All capacities are listed in pounds)

Boom Length (ft)	Load Radius (ft)	Boom Angle (deg)	83K + 0		31K + 0	
			Dragline	Clamshell Magnet	Dragline	Clamshell Magnet
60	20	73.7	—	34,500	—	34,500
60	25	68.7	—	34,500	—	34,500
60	30	63.4	—	34,500	—	34,500
60	35	58.0	34,500	34,500	34,500	34,500
60	40	52.1	34,500	34,500	34,500	34,500
60	50	38.7	34,500	34,500	34,500	34,500
60	60	18.7	—	34,500	—	34,500
70	20	76.1	—	34,500	—	34,500
70	25	71.8	—	34,500	—	34,500
70	30	67.5	—	34,500	—	34,500
70	35	63.0	—	34,500	—	34,500
70	40	58.3	34,500	34,500	34,500	34,500
70	50	48.0	34,500	34,500	34,500	34,500
70	60	35.7	34,500	34,500	34,500	34,500
70	70	17.3	—	34,500	—	28,200
80	20	77.9	—	34,500	—	34,500
80	25	74.2	—	34,500	—	34,500
80	30	70.4	—	34,500	—	34,500
80	35	66.6	—	34,500	—	34,500
80	40	62.6	—	34,500	—	34,500
80	50	54.2	34,500	34,500	34,500	34,500
80	60	44.7	34,500	34,500	34,500	34,500
80	70	33.3	—	34,500	—	28,500
80	80	16.2	—	34,500	—	23,100
90	20	79.2	—	34,500	—	34,500
90	25	76.0	—	34,500	—	34,500
90	30	72.7	—	34,500	—	34,500
90	35	69.3	—	34,500	—	34,500
90	40	65.8	—	34,500	—	34,500
90	50	58.6	34,500	34,500	34,500	34,500
90	60	50.8	34,500	34,500	34,500	34,500
90	70	42.0	34,500	34,500	32,200	28,900
90	80	31.4	—	34,500	—	23,600
90	90	15.2	—	31,600	—	19,400
100	20	80.3	—	34,500	—	34,500
100	25	77.4	—	34,500	—	34,500
100	30	74.4	—	34,500	—	34,500
100	35	71.4	—	34,500	—	34,500
100	40	68.4	—	34,500	—	34,500
100	50	62.1	—	34,500	—	34,500
100	60	55.4	34,500	34,500	34,500	34,500
100	70	48.1	34,500	34,500	32,200	28,900
100	80	39.8	34,500	34,500	26,200	23,600
100	90	29.7	—	31,700	—	19,500
100	100	14.5	—	27,100	—	16,300
110	20	81.2	—	34,500	—	34,500
110	25	78.6	—	34,500	—	34,500
110	30	75.9	—	34,500	—	34,500
110	35	73.2	—	34,500	—	34,500
110	40	70.4	—	34,500	—	34,500
110	50	64.8	—	34,500	—	34,500
110	60	58.9	34,500	34,500	34,500	34,500
110	70	52.6	34,500	34,500	32,100	28,900
110	80	45.7	34,500	34,500	26,100	23,500
110	90	37.9	34,500	31,700	21,700	19,500
110	100	28.3	—	27,200	—	16,300
110	110	13.8	—	23,400	—	13,700
120	20	81.9	—	34,500	—	34,500
120	25	79.5	—	34,500	—	34,500
120	30	77.1	—	34,500	—	34,500
120	35	74.6	—	34,500	—	34,500
120	40	72.1	—	34,500	—	34,500
120	50	67.0	—	34,500	—	34,500
120	60	61.7	—	34,500	—	34,500
120	70	56.2	34,500	34,500	32,000	28,800
120	80	50.2	34,500	34,500	26,000	23,400
120	90	43.6	34,500	31,600	21,500	19,400
120	100	36.2	30,100	27,100	18,000	16,200
120	110	27.1	—	23,400	—	13,700
120	120	13.2	—	20,400	—	11,500

WORKING RANGE DIAGRAM

60 TO 330 FT. OPEN THROAT BOOM



Notes:

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

CAPACITY DEDUCTIONS FOR LIFTING OFF MAIN BOOM HOOK WITH JIB INSTALLED (OPEN THROAT BOOM ONLY)

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

Jib Length (ft)	Capacity Deduction (lbs)
30	2,600
40	3,000
50	3,400
60	3,800
70	4,200
80	4,600
90	5,000
100	5,400

CAPACITY DEDUCTIONS FOR LIFTING OFF MAIN BOOM HOOK WITH 5-FT TIP EXTENSION INSTALLED

When using main boom hook, while 5-ft. tip extension is attached, reduce boom capacities by the values in the following chart:

Tip Extension (ft)	Capacity Deduction (lbs.)
5	1,100

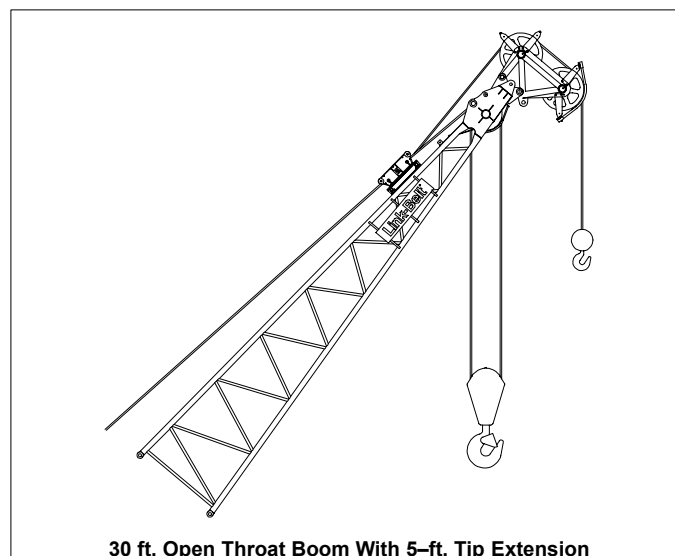
MAXIMUM ALLOWABLE CAPACITIES FOR 5-FT TIP EXTENSION

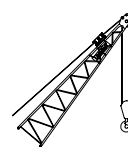
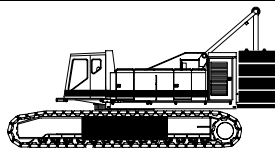
LIFTING CAPACITY TO BE THE SMALLEST OF THE FOLLOWING VALUES:

- 50,000 lbs. (Maximum).
- The standard crane lift capacity minus 1,100 lbs. for the boom length, tip extension load radius, and counterweight configuration in use on the crane.

NOTES:

- All notes are to be adhered to as listed on the standard lift crane capacity charts .
- Reduce the main boom lift capacities by 1,100 lbs. when the tip extension is installed.
- The maximum boom length on which the tip extension can be installed is 300 ft.
- Do not lift or suspend a load from the boom tip extension and main boom at the same time.





Note: Refer to page 7 for "Capacity Deductions" caused by any jib attachment or tip extension.

Main Boom Capacities – 60 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+ LWR (lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
12	81.5	500,000	500,000	500,000	439,600	500,000	500,000
13	80.6	500,000	500,000	470,400	406,200	500,000	500,000
14	79.6	496,900	496,900	437,200	377,300	496,900	496,900
15	78.6	464,100	464,100	408,200	352,200	464,100	464,100
16	77.6	435,300	435,300	382,800	330,200	435,300	435,300
17	76.7	409,800	409,800	360,200	310,600	409,800	409,800
18	75.7	387,000	387,000	340,100	293,200	387,000	387,000
19	74.7	366,600	366,600	322,100	270,200	366,600	366,600
20	73.7	348,100	348,100	305,800	241,000	348,100	348,100
25	68.7	277,700	277,700	229,700	155,400	277,700	277,700
30	63.4	230,300	224,200	168,900	113,700	230,300	230,300
35	58.0	191,000	176,900	132,900	89,000	196,300	196,300
40	52.1	157,400	145,600	109,100	72,600	170,700	170,700
50	38.7	115,500	106,700	79,500	52,200	134,600	131,900
60	18.7	90,400	83,400	61,600	39,900	101,000	101,000

Main Boom Capacities – 80 Ft. – Open Throat Boom

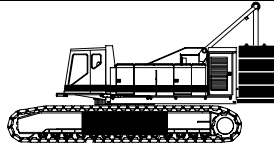
Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+ LWR (lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
14.3	82.0	433,400	433,400	425,500	367,300	433,400	433,400
15	81.5	428,000	428,000	405,900	350,200	428,000	428,000
16	80.8	421,300	421,300	380,700	328,400	421,300	421,300
17	80.0	407,600	407,600	358,300	309,000	407,600	407,600
18	79.3	385,000	385,000	338,400	291,700	385,000	385,000
19	78.6	364,700	364,700	320,500	272,400	364,700	364,700
20	77.9	346,400	346,400	304,300	242,900	346,400	346,400
25	74.2	276,300	276,300	230,700	156,400	276,300	276,300
30	70.4	229,100	224,700	169,500	114,200	229,100	229,100
35	66.6	191,300	177,200	133,200	89,200	195,200	195,200
40	62.6	157,500	145,800	109,200	72,700	167,200	167,200
50	54.2	115,500	106,700	79,500	52,200	128,500	128,500
60	44.7	90,400	83,400	61,700	39,900	103,200	102,100
70	33.3	73,700	67,900	49,800	31,700	84,300	82,600
80	16.2	61,700	56,700	41,200	25,700	69,600	68,800

Main Boom Capacities – 70 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+ LWR (lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
12.9	82.0	478,200	478,200	471,600	407,200	475,700	475,700
13	81.9	478,200	478,200	468,400	404,400	475,700	475,700
14	81.1	469,200	469,200	435,400	375,700	469,700	469,700
15	80.3	460,400	460,400	406,600	350,700	458,000	458,000
16	79.4	433,600	433,600	381,200	328,800	433,600	433,600
17	78.6	408,200	408,200	358,800	309,300	408,200	408,200
18	77.8	385,500	385,500	338,800	291,900	385,500	385,500
19	76.9	365,200	365,200	320,800	271,300	365,200	365,200
20	76.1	346,800	346,800	304,600	241,900	346,800	346,800
25	71.8	276,500	276,500	230,100	155,800	276,500	276,500
30	67.5	229,200	224,300	169,000	113,800	229,200	229,200
35	63.0	191,000	176,800	132,900	88,900	195,300	195,300
40	58.3	157,200	145,500	108,900	72,400	169,700	169,700
50	48.0	115,300	106,500	79,200	51,900	132,300	131,800
60	35.7	90,200	83,200	61,400	39,600	105,500	101,800
70	17.3	73,400	67,600	49,500	31,300	84,200	82,200

Main Boom Capacities – 90 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+ LWR (lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
15.7	82.0	409,500	409,500	389,000	335,900	409,500	409,500
16	81.8	407,000	407,000	381,600	329,400	407,000	407,000
17	81.2	401,900	401,900	359,200	310,000	401,900	401,900
18	80.5	385,800	385,800	339,300	292,700	385,800	385,800
19	79.9	365,500	365,500	321,400	275,600	365,500	365,500
20	79.2	347,200	347,200	305,200	245,800	347,200	347,200
25	76.0	277,100	277,100	232,600	158,300	277,100	277,100
30	72.7	229,900	226,100	170,900	115,600	229,900	229,900
35	69.3	192,500	178,300	134,300	90,400	195,900	195,900
40	65.8	158,400	146,700	110,200	73,700	170,300	170,300
50	58.6	116,200	107,400	80,200	52,900	134,300	132,900
60	50.8	91,000	84,000	62,200	40,500	110,100	102,700
70	42.0	74,200	68,400	50,300	32,200	90,700	83,100
80	31.4	62,200	57,200	41,700	26,200	75,800	69,300
90	15.2	53,000	48,700	35,100	21,600	64,600	58,900



Main Boom Capacities – 100 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+ LWR (lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
17.1	82.0	377,500	377,500	356,600	307,800	377,500	377,500
18	81.5	370,400	370,400	338,600	292,100	370,400	370,400
19	80.9	364,700	364,700	320,700	276,400	364,700	364,700
20	80.3	346,500	346,500	304,600	246,400	346,500	346,500
25	77.4	276,600	276,600	232,900	158,600	276,600	276,600
30	74.4	229,500	226,300	171,100	115,800	229,500	229,500
35	71.4	192,600	178,400	134,500	90,500	195,600	195,600
40	68.4	158,500	146,800	110,300	73,700	170,000	170,000
50	62.1	116,200	107,500	80,200	52,900	134,000	133,000
60	55.4	91,000	84,000	62,200	40,500	109,900	102,800
70	48.1	74,200	68,400	50,300	32,200	90,800	83,200
80	39.8	62,200	57,200	41,700	26,200	75,800	69,400
90	29.7	53,200	48,800	35,300	21,700	64,700	59,100
100	14.5	46,000	42,200	30,100	18,100	56,100	51,100

Main Boom Capacities – 120 Ft. – Open Throat Boom

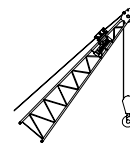
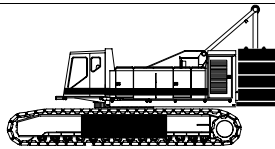
Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+ LWR (lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
19.9	82.0	319,300	319,300	305,200	251,000	319,300	319,300
20	81.9	318,300	318,300	303,100	247,400	318,300	318,300
25	79.5	275,400	275,400	233,400	159,100	275,400	275,400
30	77.1	228,600	226,500	171,300	116,000	228,600	228,600
35	74.6	192,600	178,500	134,500	90,600	194,800	194,800
40	72.1	158,500	146,700	110,200	73,700	169,300	169,300
50	67.0	116,100	107,300	80,000	52,800	133,400	133,000
60	61.7	90,800	83,800	62,000	40,300	109,300	102,700
70	56.2	74,000	68,200	50,100	32,000	90,600	83,000
80	50.2	62,000	57,000	41,500	26,000	75,700	69,200
90	43.6	53,000	48,600	35,100	21,500	64,600	59,000
100	36.2	46,000	42,100	30,100	18,000	56,000	51,100
110	27.1	40,300	36,900	26,000	15,200	49,200	44,700
120	13.2	35,600	32,500	22,600	12,800	43,600	39,500

Main Boom Capacities – 110 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K + LWR (lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K + LWR (lb)	135K + 0 (lb)
18.5	82.0	346,500	346,500	329,000	283,900	346,500	346,500
19	81.7	344,400	344,400	320,000	276,000	344,400	344,400
20	81.2	341,100	341,100	303,900	246,900	341,100	341,100
25	78.6	276,100	276,100	233,200	158,900	276,100	276,100
30	75.9	229,100	226,500	171,200	116,000	229,100	229,100
35	73.2	192,600	178,500	134,500	90,500	195,200	195,200
40	70.4	158,500	146,800	110,300	73,700	169,700	169,700
50	64.8	116,200	107,400	80,100	52,900	133,700	133,000
60	58.9	90,900	83,900	62,200	40,400	109,700	102,800
70	52.6	74,100	68,300	50,200	32,100	90,700	83,100
80	45.7	62,100	57,200	41,600	26,100	75,800	69,300
90	37.9	53,100	48,800	35,200	21,700	64,700	59,100
100	28.3	46,100	42,200	30,200	18,100	56,100	51,100
110	13.8	40,400	36,900	26,100	15,200	49,200	44,700

Main Boom Capacities – 130 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K + LWR (lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K + LWR (lb)	135K + 0 (lb)
21.3	82.0	296,200	296,200	284,300	217,700	296,200	296,200
25	80.3	274,700	274,700	233,500	159,200	274,700	274,700
30	78.1	228,000	226,200	171,300	116,100	228,000	228,000
35	75.8	192,600	178,500	134,500	90,500	194,300	194,300
40	73.5	158,400	146,700	110,100	73,600	168,800	168,800
50	68.9	116,000	107,200	79,900	52,600	133,000	132,900
60	64.1	90,600	83,600	61,900	40,100	108,900	102,600
70	59.1	73,800	68,000	49,900	31,800	90,500	82,900
80	53.8	61,800	56,800	41,300	25,800	75,500	69,100
90	48.1	52,800	48,500	34,900	21,400	64,400	58,800
100	34.7	45,800	41,900	29,900	17,900	55,900	50,900
110	37.9	40,200	36,700	25,900	15,100	49,100	44,600
120	26.0	35,600	32,400	22,600	12,700	43,500	39,500
130	12.7	31,600	28,700	19,700	10,700	38,800	35,100



Main Boom Capacities – 140 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
22.7	82.0	272,800	272,800	265,900	191,900	272,800	272,800
25	81.0	267,700	267,700	233,600	159,300	267,700	267,700
30	79.0	227,400	226,600	171,300	116,100	227,400	227,400
35	76.9	192,500	178,400	134,400	90,500	193,800	193,800
40	74.7	158,300	146,600	110,000	73,500	168,300	168,300
50	70.5	115,800	107,000	79,800	52,500	132,500	132,500
60	66.0	90,500	83,500	61,700	39,900	108,500	102,400
70	61.5	73,600	67,800	49,700	31,600	90,300	82,700
80	56.7	61,600	56,600	41,100	25,600	75,300	68,900
90	51.7	52,600	48,300	34,700	21,200	64,300	58,600
100	46.2	45,600	41,700	29,700	17,700	55,700	50,700
110	40.3	40,000	36,500	25,700	14,900	48,900	44,400
120	33.4	35,400	32,200	22,400	12,500	43,300	39,300
130	25.0	31,500	28,600	19,600	10,600	38,700	35,000
140	12.2	28,200	25,500	17,200	8,900	34,700	31,300

Main Boom Capacities – 160 Ft. – Open Throat Boom

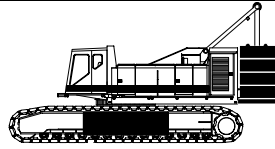
Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K + LWR (lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K + LWR(lb)	135K + 0 (lb)
25.4	82.0	234,200	234,200	226,700	154,500	234,200	234,200
30	80.3	226,100	226,100	171,200	116,000	226,100	226,100
35	78.5	192,400	178,200	134,200	90,300	192,600	192,600
40	76.7	158,000	146,300	109,800	73,200	167,300	167,300
50	73.0	115,400	106,700	79,400	52,100	131,600	131,600
60	69.2	90,000	83,000	61,300	39,500	107,600	102,100
70	65.3	73,200	67,300	49,200	31,100	89,900	82,300
80	61.3	61,100	56,100	40,600	25,100	74,900	68,400
90	57.1	52,100	47,800	34,200	20,700	63,800	58,200
100	52.8	45,100	41,200	29,200	17,200	55,200	50,300
110	48.1	39,500	36,000	25,200	14,400	48,400	44,000
120	43.1	34,900	31,700	21,900	12,100	42,900	38,800
130	37.6	31,100	28,200	19,200	10,100	38,300	34,600
140	31.2	27,800	25,100	16,800	8,500	34,400	31,000
150	23.4	25,000	22,500	14,800	7,000	31,000	27,900
160	11.4	22,500	20,200	12,900	5,700	28,100	25,100

Main Boom Capacities – 150 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
24.0	82.0	254,300	254,300	249,500	171,400	254,300	254,300
25	81.6	251,900	251,900	233,700	159,400	251,900	251,900
30	79.7	226,800	226,500	171,300	116,000	226,800	226,800
35	77.7	192,500	178,300	134,300	90,400	193,200	193,200
40	75.8	158,200	146,400	109,900	73,400	167,800	167,800
50	71.8	115,600	106,900	79,600	52,300	132,100	132,100
60	67.7	90,300	83,300	61,500	39,700	108,100	102,200
70	63.5	73,400	67,600	49,500	31,400	90,100	82,500
80	59.2	61,400	56,400	40,900	25,400	75,100	68,700
90	54.6	52,400	48,000	34,500	20,900	64,000	58,400
100	49.8	45,400	41,500	29,500	17,400	55,500	50,500
110	44.6	39,800	36,300	25,500	14,600	48,700	44,200
120	38.8	35,200	32,000	22,200	12,300	43,100	39,100
130	32.3	31,300	28,400	19,400	10,400	38,500	34,800
140	24.2	28,000	25,400	17,000	8,700	34,600	31,200
150	11.8	25,100	22,700	14,900	7,200	31,200	28,000

Main Boom Capacities – 170 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
26.8	82.0	218,300	218,300	206,500	140,500	218,300	218,300
30	80.9	213,600	213,600	171,200	115,900	213,600	213,600
35	79.2	192,000	178,100	134,100	90,100	192,000	192,000
40	77.5	157,900	146,100	109,600	73,100	166,800	166,800
50	74.0	115,200	106,400	79,200	51,900	131,100	131,100
60	70.5	89,800	82,800	61,000	39,300	107,100	101,800
70	66.9	72,900	67,100	49,000	30,900	89,700	82,100
80	63.1	60,900	55,900	40,400	24,900	74,700	68,200
90	59.3	51,800	47,500	33,900	20,400	63,500	57,900
100	55.3	44,800	41,000	28,900	16,900	55,000	50,000
110	51.1	39,200	35,700	24,900	14,100	48,200	43,700
120	46.6	34,600	31,500	21,600	11,800	42,600	38,600
130	41.7	30,800	27,900	18,900	9,900	38,000	34,300
140	36.4	27,500	24,900	16,500	8,200	34,100	30,700
150	30.3	24,700	22,200	14,500	6,800	30,800	27,600
160	22.7	22,300	20,000	12,800	5,500	27,900	24,900
170	11.1	20,100	17,900	11,100	4,400	25,300	22,500



Main Boom Capacities – 180 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
28.2	82.0	192,900	192,900	189,400	128,600	192,900	192,900
30	81.4	192,900	192,900	171,100	115,900	192,900	192,900
35	79.8	191,400	178,000	134,000	90,000	191,400	191,400
40	78.2	157,700	145,900	109,400	72,900	166,200	166,200
50	74.9	115,000	106,200	79,000	51,700	130,600	130,600
60	71.6	89,500	82,500	60,800	39,000	106,600	101,600
70	68.2	72,600	66,800	48,700	30,600	89,400	81,800
80	64.7	60,600	55,600	40,100	24,600	74,400	67,900
90	61.2	51,600	47,200	33,600	20,100	63,300	57,600
100	57.5	44,500	40,700	28,600	16,600	54,700	49,700
110	53.6	38,900	35,400	24,600	13,800	47,900	43,400
120	49.5	34,300	31,200	21,300	11,500	42,300	38,300
130	45.2	30,500	27,600	18,600	9,600	37,700	34,000
140	40.5	27,200	24,600	16,300	7,900	33,900	30,400
150	35.3	24,400	22,000	14,200	6,500	30,500	27,400
160	29.4	22,000	19,700	12,500	5,300	27,600	24,700
170	22.1	19,900	17,700	10,900	4,200	25,100	22,300
180	10.8	17,900	15,900	9,500	3,200	22,800	20,200

Main Boom Capacities – 200 Ft. – Open Throat Boom

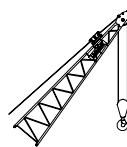
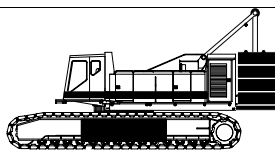
Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
31.0	82.0	154,300	154,300	154,300	109,400	154,300	154,300
35	80.8	152,400	152,400	133,700	89,700	152,400	152,400
40	79.4	152,400	145,600	109,000	72,500	152,400	152,400
50	76.5	114,500	105,800	78,500	51,200	129,500	129,500
60	73.5	89,000	82,000	60,300	38,500	105,600	101,200
70	70.5	72,100	66,200	48,100	30,000	88,400	81,300
80	67.4	60,000	55,000	39,500	24,000	73,900	67,400
90	64.3	51,000	46,600	33,000	19,500	62,700	57,100
100	61.0	43,900	40,100	28,000	16,000	54,100	49,100
110	57.7	38,300	34,800	24,000	13,200	47,300	42,800
120	54.3	33,700	30,500	20,700	10,900	41,700	37,700
130	50.6	29,900	27,000	18,000	8,900	37,100	33,400
140	46.8	26,600	23,900	15,600	7,300	33,200	29,800
150	42.8	23,800	21,300	13,600	5,900	29,900	26,800
160	38.4	21,400	19,100	11,900	4,700	27,000	24,100
170	33.5	19,300	17,100	10,400	3,600	24,500	21,800
180	27.9	17,400	15,300	9,000	2,600	22,300	19,700
190	20.9	15,700	13,800	7,800	—	20,300	17,800
200	10.2	14,100	12,300	6,600	—	18,500	16,100

Main Boom Capacities – 190 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
29.6	82.0	173,200	173,200	173,200	118,400	173,200	173,200
30	81.9	173,200	173,200	171,000	115,800	173,200	173,200
35	80.4	173,200	173,200	133,800	89,900	173,200	173,200
40	78.8	157,500	145,800	109,200	72,700	165,600	165,600
50	75.7	114,800	106,000	78,700	51,400	130,000	130,000
60	72.6	89,300	82,300	60,500	38,800	106,100	101,400
70	69.4	72,400	66,500	48,400	30,300	88,900	81,600
80	66.1	60,300	55,300	39,800	24,300	74,100	67,700
90	62.8	51,300	46,900	33,400	19,800	63,000	57,400
100	59.4	44,200	40,400	28,300	16,300	54,400	49,400
110	55.8	38,600	35,100	24,300	13,500	47,600	43,100
120	52.1	34,000	30,900	21,000	11,200	42,000	38,000
130	48.1	30,200	27,300	18,300	9,300	37,400	33,700
140	43.9	26,900	24,300	15,900	7,600	33,600	30,100
150	39.4	24,100	21,700	13,900	6,200	30,200	27,100
160	34.4	21,700	19,400	12,200	5,000	27,300	24,400
170	28.6	19,600	17,400	10,700	3,900	24,800	22,100
180	21.5	17,700	15,600	9,300	2,900	22,600	20,000
190	10.5	15,900	14,000	8,000	2,000	20,500	18,100

Main Boom Capacities – 210 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
32.4	82.0	138,500	138,500	138,500	101,600	138,500	138,500
35	81.3	138,500	138,500	133,500	89,500	138,500	138,500
40	79.9	138,500	138,500	108,800	72,300	138,500	138,500
50	77.1	114,300	105,500	78,200	51,000	128,900	128,900
60	74.3	88,700	81,700	60,000	38,200	105,100	100,900
70	71.4	71,800	66,000	47,900	29,700	87,900	81,000
80	68.5	59,700	54,700	39,200	23,700	73,600	67,100
90	65.6	50,600	46,300	32,700	19,200	62,400	56,800
100	62.5	43,600	39,700	27,700	15,700	53,800	48,800
110	59.4	38,000	34,500	23,700	12,800	47,000	42,500
120	56.2	33,400	30,200	20,400	10,500	41,400	37,400
130	52.8	29,500	26,600	17,600	8,600	36,800	33,100
140	49.3	26,300	23,600	15,300	7,000	32,900	29,500
150	45.6	23,500	21,000	13,300	5,600	29,600	26,400
160	41.7	21,100	18,800	11,600	4,400	26,700	23,800
170	37.4	19,000	16,800	10,000	3,300	24,200	21,400
180	32.6	17,100	15,000	8,700	2,300	22,000	19,400
190	27.2	15,400	13,500	7,500	—	20,000	17,500
200	20.4	13,900	12,000	6,400	—	18,200	15,900
210	10.0	12,500	10,700	5,300	—	16,600	14,400



Main Boom Capacities – 220 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
33.8	82.0	125,700	125,700	125,700	94,700	125,700	125,700
35	81.7	125,700	125,700	125,700	89,300	125,700	125,700
40	80.4	122,600	122,600	108,600	72,100	122,600	122,600
50	77.7	114,000	105,300	78,000	50,700	121,100	121,100
60	75.0	88,500	81,500	59,700	37,900	104,500	100,700
70	72.3	71,500	65,700	47,600	29,400	87,300	80,800
80	69.6	59,400	54,400	38,900	23,400	73,300	66,800
90	66.8	50,300	46,000	32,400	18,900	62,100	56,500
100	63.9	43,300	39,400	27,400	15,300	53,500	48,500
110	60.9	37,700	34,200	23,300	12,500	46,700	42,200
120	57.9	33,000	29,900	20,000	10,200	41,100	37,100
130	54.8	29,200	26,300	17,300	8,300	36,500	32,800
140	51.5	26,000	23,300	15,000	6,600	32,600	29,200
150	48.1	23,200	20,700	13,000	5,200	29,300	26,100
160	44.5	20,700	18,400	11,200	4,000	26,400	23,400
170	40.7	18,600	16,500	9,700	2,900	23,900	21,100
180	36.5	16,700	14,700	8,300	2,000	21,700	19,100
190	31.9	15,100	13,100	7,100	—	19,700	17,200
200	26.5	13,600	11,700	6,000	—	17,900	15,600
210	19.9	12,200	10,400	5,000	—	16,300	14,100
220	9.7	10,900	9,200	4,100	—	14,800	12,700

Main Boom Capacities – 240 Ft. – Open Throat Boom

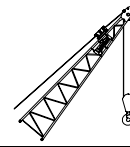
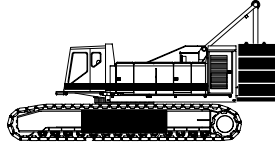
Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
36.6	82.0	101,500	101,500	101,500	PROHIBITED	101,500	101,500
40	81.2	101,500	101,500	101,500		101,500	101,500
50	78.7	100,200	100,200	77,400		100,200	100,200
60	76.3	87,900	80,900	59,100		99,000	99,000
70	73.8	70,900	65,100	46,900		86,300	80,200
80	71.3	58,800	53,800	38,300		72,700	66,200
90	68.8	49,700	45,300	31,800		61,500	55,900
100	66.2	42,600	38,700	26,700		52,900	47,900
110	63.6	37,000	33,500	22,700		46,000	41,600
120	60.9	32,400	29,200	19,400		40,500	36,400
130	58.1	28,500	25,600	16,600	PROHIBITED	35,800	32,100
140	55.2	25,300	22,600	14,300		31,900	28,500
150	52.3	22,500	20,000	12,300		28,600	25,400
160	49.2	20,100	17,700	10,500		25,700	22,800
170	46.0	17,900	15,800	9,000		23,200	20,400
180	42.5	16,100	14,000	7,700		21,000	18,400
190	38.9	14,400	12,500	6,500		19,000	16,600
200	34.9	12,900	11,100	5,400		17,200	14,900
210	30.5	11,500	9,800	4,400		15,600	13,400
220	25.4	10,300	8,600	3,500		14,200	12,100
230	19.1	9,200	7,600	2,700		12,900	10,900
240	9.3	8,100	6,600	—		11,500	9,700

Main Boom Capacities – 230 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
35.2	82.0	112,200	112,200	112,200	PROHIBITED	112,200	112,200
40	80.8	110,800	110,800	108,400		110,800	110,800
50	78.3	110,100	105,000	77,700		110,100	110,100
60	75.7	88,200	81,200	59,400		104,000	100,400
70	73.1	71,200	65,400	47,300		86,800	80,500
80	70.5	59,100	54,100	38,600		73,000	66,500
90	67.8	50,000	45,600	32,100		61,800	56,200
100	65.1	43,000	39,100	27,000		53,200	48,200
110	62.3	37,300	33,800	23,000		46,300	41,900
120	59.5	32,700	29,500	19,700		40,800	36,700
130	56.5	28,900	26,000	17,000	PROHIBITED	36,200	32,500
140	53.5	25,600	22,900	14,600		32,300	28,900
150	50.3	22,800	20,300	12,600		28,900	25,800
160	47.0	20,400	18,100	10,900		26,100	23,100
170	43.5	18,300	16,100	9,400		23,500	20,800
180	39.8	16,400	14,400	8,000		21,300	18,700
190	35.7	14,700	12,800	6,800		19,400	16,900
200	31.2	13,200	11,400	5,700		17,600	15,300
210	25.9	11,900	10,100	4,700		16,000	13,800
220	19.5	10,600	9,000	3,800		14,500	12,400
230	9.5	9,400	7,900	3,000		13,100	11,200

Main Boom Capacities – 250 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
38.0	82.0	93,700	93,700	93,700	PROHIBITED	93,700	93,700
40	81.5	93,700	93,700	93,700		93,700	93,700
50	79.2	92,500	92,500	77,200		92,500	92,500
60	76.9	87,500	80,500	58,800		92,000	92,000
70	74.5	70,500	64,700	46,600		81,600	79,900
80	72.1	58,300	53,400	37,900		72,300	65,900
90	69.7	49,300	44,900	31,300		61,100	55,500
100	67.2	42,200	38,300	26,300		52,500	47,500
110	64.7	36,500	33,100	22,200		45,600	41,100
120	62.1	31,900	28,800	18,900	PROHIBITED	40,000	36,000
130	59.5	28,100	25,200	16,200		35,400	31,700
140	56.8	24,800	22,100	13,800		31,500	28,100
150	54.0	22,000	19,500	11,800		28,200	25,000
160	51.1	19,600	17,300	10,100		25,300	22,300
170	48.1	17,500	15,300	8,500		22,800	20,000
180	45.0	15,600	13,500	7,200		20,500	17,900
190	41.6	13,900	12,000	6,000		18,600	16,100
200	38.1	12,400	10,600	4,900		16,800	14,500
210	34.2	11,100	9,300	3,900		15,200	13,000
220	29.8	9,800	8,200	3,000		13,700	11,700
230	24.9	8,700	7,100	2,200		12,400	10,400
240	18.7	7,700	6,100	—		11,200	9,300
250	9.1	6,700	5,200	—		10,100	8,200



Main Boom Capacities – 260 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+LWR (lb)	135K+0 (lb)
39.4	82.0	86,200	86,200	86,200	PROHIBITED	86,200	86,200
40	81.9	86,200	86,200	86,200		86,200	86,200
50	79.6	81,900	81,900	76,900		81,900	81,900
60	77.4	80,900	80,200	58,500		80,900	80,900
70	75.1	70,200	64,400	46,200		74,800	74,800
80	72.8	58,000	53,000	37,500		69,200	65,500
90	70.5	48,900	44,600	31,000		60,800	55,200
100	68.1	41,800	38,000	25,900		52,100	47,200
110	65.7	36,200	32,700	21,900		45,300	40,800
120	63.3	31,600	28,400	18,600		39,700	35,600
130	60.8	27,700	24,800	15,800		35,100	31,300
140	58.2	24,500	21,800	13,500		31,100	27,700
150	55.6	21,700	19,200	11,500		27,800	24,600
160	52.9	19,200	16,900	9,700		24,900	22,000
170	50.1	17,100	14,900	8,200		22,400	19,600
180	47.1	15,200	13,200	6,800		20,200	17,600
190	44.1	13,600	11,600	5,600		18,200	15,800
200	40.8	12,100	10,200	4,500		16,400	14,100
210	37.3	10,700	9,000	3,600		14,800	12,600
220	33.5	9,500	7,800	2,700		13,400	11,300
230	29.3	8,400	6,800	—		12,100	10,100
240	24.4	7,300	5,800	—		10,900	9,000
250	18.3	6,400	4,900	—		9,800	7,900
260	9.0	5,400	4,100	—		8,700	6,900

Main Boom Capacities – 280 Ft. – Open Throat Boom

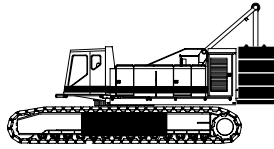
Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+LWR (lb)	135K+0 (lb)
42.1	82.0	70,800	70,800	PROHIBITED	PROHIBITED	70,800	70,800
50	80.4	69,900	69,900			69,900	69,900
60	78.3	69,000	69,000			69,000	69,000
70	76.2	63,800	63,700			63,800	63,800
80	74.1	57,400	52,400			58,200	58,200
90	71.9	48,200	43,900			53,500	53,500
100	69.8	41,200	37,300			48,800	46,500
110	67.6	35,500	32,000			44,600	40,100
120	65.3	30,900	27,700			38,700	34,900
130	63.1	27,000	24,100			34,400	30,600
140	60.7	23,700	21,100			30,400	27,000
150	58.4	20,900	18,400			27,100	23,900
160	55.9	18,500	16,200			24,200	21,300
170	53.4	16,400	14,200			21,700	18,900
180	50.8	14,500	12,500			19,500	16,900
190	48.1	12,800	10,900			17,500	15,000
200	45.3	11,300	9,500			15,700	13,400
210	42.4	10,000	8,200			14,100	11,900
220	39.2	8,800	7,100			12,700	10,600
230	35.9	7,600	6,100			11,400	9,400
240	32.2	6,600	5,100			10,200	8,300
250	28.2	5,700	4,200			9,000	7,300
260	23.5	4,800	3,400			7,900	6,300
270	17.6	4,000	2,600			6,800	5,400
280	8.6	3,200	—			5,600	4,600

Main Boom Capacities – 270 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+LWR (lb)	135K+0 (lb)
40.7	82.0	76,500	76,500	76,500	PROHIBITED	76,500	76,500
50	80.0	75,500	75,500	75,500		75,500	75,500
60	77.8	74,600	74,600	58,200		74,600	74,600
70	75.7	69,000	64,000	45,900		69,000	69,000
80	73.5	57,700	52,700	37,200		63,400	63,400
90	71.2	48,600	44,200	30,700		57,800	54,800
100	69.0	41,500	37,600	25,600		51,800	46,800
110	66.7	35,800	32,400	21,500		44,900	40,500
120	64.4	31,200	28,100	18,200		39,300	35,300
130	62.0	27,400	24,500	15,400		34,700	31,000
140	59.5	24,100	21,400	13,100		30,800	27,400
150	57.1	21,300	18,800	11,100		27,500	24,300
160	54.5	18,900	16,600	9,300		24,600	21,600
170	51.8	16,700	14,600	7,800		22,000	19,300
180	49.1	14,900	12,800	6,500		19,800	17,200
190	46.2	13,200	11,300	5,300		17,800	15,400
200	43.2	11,700	9,900	4,200		16,100	13,800
210	40.0	10,300	8,600	3,200		14,500	12,300
220	36.6	9,100	7,500	2,300		13,100	11,000
230	32.8	8,000	6,400	—		11,700	9,700
240	28.7	7,000	5,500	—		10,500	8,600
250	23.9	6,000	4,600	—		9,400	7,600
260	18.0	5,100	3,800	—		8,300	6,600
270	8.8	4,300	3,000	—		7,200	5,700

Main Boom Capacities – 290 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+LWR (lb)	135K+0 (lb)
43.5	82.0	65,300	65,300	PROHIBITED	PROHIBITED	65,300	65,300
50	80.7	64,400	64,400			64,400	64,400
60	78.7	63,600	63,600			63,600	63,600
70	76.7	58,900	58,900			58,900	58,900
80	74.6	53,700	52,000			53,700	53,700
90	72.6	47,900	43,500			49,300	49,300
100	70.5	40,800	36,900			45,000	45,000
110	68.4	35,100	31,600			38,500	38,500
120	66.2	30,500	27,300			35,600	34,600
130	64.1	26,600	23,700			32,500	30,300
140	61.8	23,400	20,700			30,100	26,700
150	59.6	20,600	18,100			26,700	23,600
160	57.3	18,100	15,800			23,800	20,900
170	54.9	16,000	13,800			21,300	18,600
180	52.4	14,100	12,100			19,100	16,500
190	49.9	12,500	10,500			17,100	14,700
200	47.3	11,000	9,100			15,400	13,000
210	44.5	9,600	7,900			13,800	11,600
220	41.6	8,400	6,700			12,300	10,200
230	38.5	7,300	5,700			11,000	9,000
240	35.2	6,300	4,700			9,800	7,900
250	31.7	5,300	3,900			8,500	6,900
260	27.7	4,400	3,100			7,400	6,000
270	23.1	3,600	2,300			6,300	5,100
280	17.3	2,900	—			5,300	4,200
290	8.5	2,100	—			4,100	3,500



Main Boom Capacities – 300 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
44.9	82.0	60,300	60,300	PROHIBITED	PROHIBITED	60,300	60,300
50	81.0	59,900	59,900			59,900	59,900
60	79.1	59,100	59,100			59,100	59,100
70	77.1	54,300	54,300			54,300	54,300
80	75.2	49,600	49,600			49,600	49,600
90	73.2	45,500	43,200			45,500	45,500
100	71.2	38,700	36,600			38,700	38,700
110	69.1	34,800	31,300			35,600	35,600
120	67.1	30,100	27,000			32,900	32,900
130	65.0	26,300	23,400			30,000	29,900
140	62.9	23,000	20,300			27,700	26,300
150	60.7	20,200	17,700			25,700	23,200
160	58.5	17,800	15,400			23,500	20,500
170	56.2	15,600	13,500			21,000	18,200
180	53.9	13,800	11,700			18,700	16,100
190	51.5	12,100	10,200			16,800	14,300
200	49.0	10,600	8,800			15,000	12,700
210	46.4	9,200	7,500			13,400	11,200
220	43.7	8,000	6,400			12,000	9,900
230	40.9	6,900	5,300			10,600	8,700
240	37.9	5,900	4,400			9,200	7,500
250	34.6	4,900	3,500			8,000	6,500
260	31.1	4,100	2,700			6,900	5,600
270	27.2	3,300	—			5,800	4,700
280	22.7	2,500	—			4,800	3,900
290	17.0	—	—			3,800	3,100
300	8.3	—	—			2,700	2,400

Main Boom Capacities – 320 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
47.7	82.0	51,700	PROHIBITED	PROHIBITED	PROHIBITED	51,700	51,700
50	81.6	51,700				51,700	51,700
60	79.8	50,800				50,800	50,800
70	77.9	46,600				46,600	46,600
80	76.1	42,600				42,600	42,600
90	74.3	36,200				36,200	36,200
100	72.4	33,000				33,000	33,000
110	70.5	30,500				30,500	30,500
120	68.6	27,800				27,800	27,800
130	66.6	25,500				25,800	25,800
140	64.7	22,300				23,500	23,500
150	62.7	19,400				21,700	21,700
160	60.7	17,000				20,100	20,100
170	58.6	14,900				18,600	18,600
180	56.5	13,000				17,200	17,200
190	54.3	11,300				15,900	15,900
200	52.0	9,800				14,200	14,200
210	49.7	8,500				12,600	12,600
220	47.3	7,300				11,000	11,000
230	44.9	6,100				9,500	9,500
240	42.3	5,100				8,200	8,200
250	39.5	4,200				7,000	7,000
260	36.6	3,300				5,800	5,800
270	33.5	2,500				4,800	4,800
280	30.1	—				3,800	3,800
290	26.3	—				2,900	2,900
300	21.9	—				2,000	2,000

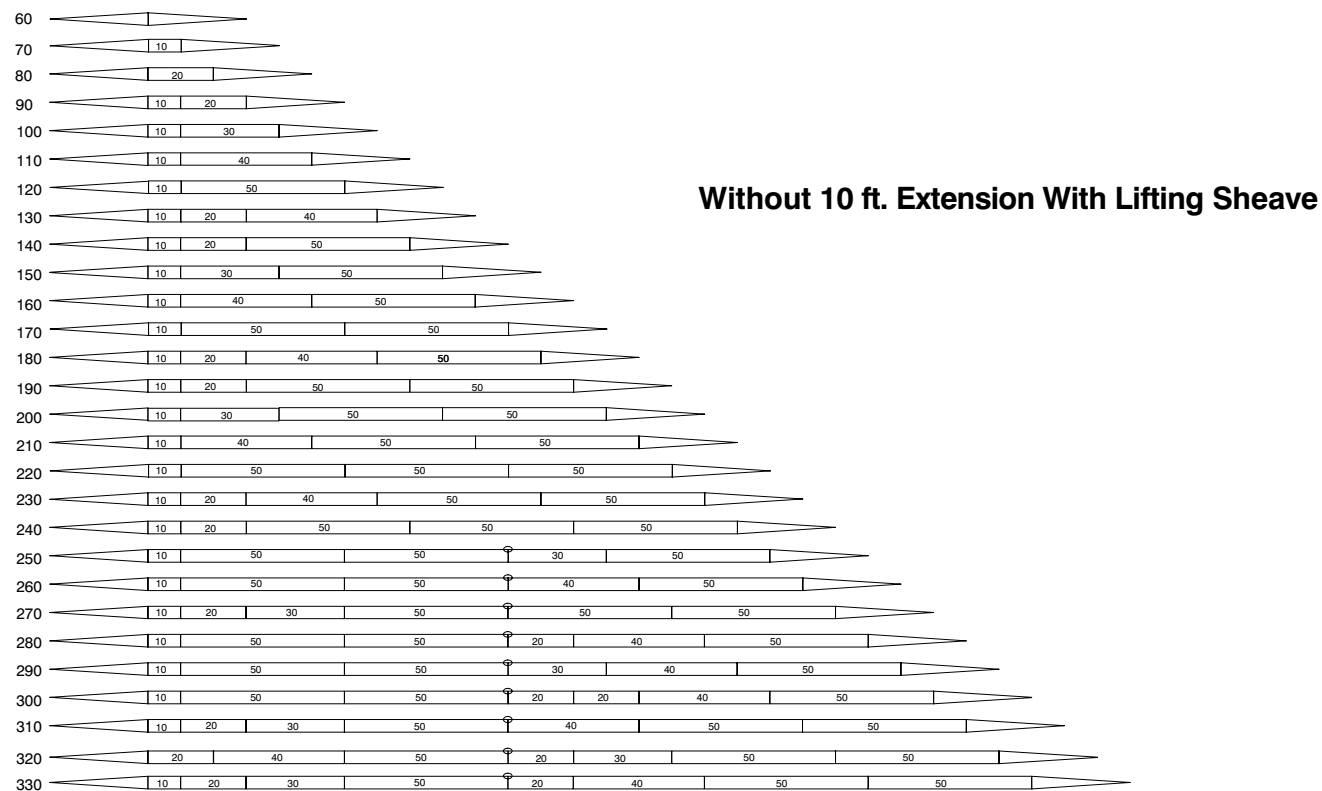
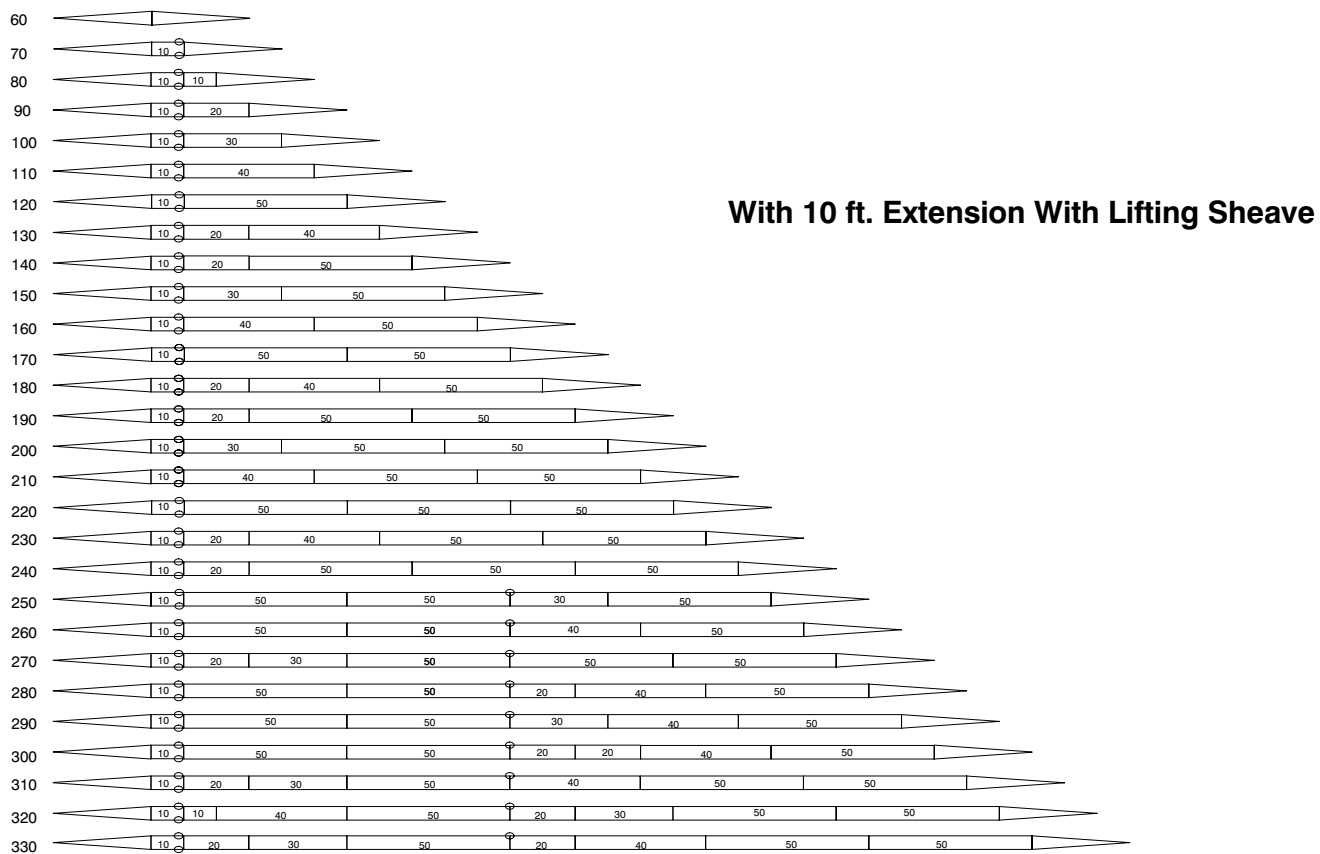
Main Boom Capacities – 310 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
46.3	82.0	55,800	55,800	PROHIBITED	PROHIBITED	55,800	55,800
50	81.3	55,800	55,800			55,800	55,800
60	79.4	54,700	54,700			54,700	54,700
70	77.5	50,300	50,300			50,300	50,300
80	75.6	45,900	45,900			45,900	45,900
90	73.7	39,000	39,000			39,000	39,000
100	71.8	35,800	35,800			35,800	35,800
110	69.8	32,900	30,900			32,900	32,900
120	67.9	29,800	26,600			30,200	30,200
130	65.8	25,900	23,000			27,800	27,800
140	63.8	22,600	19,900			25,700	25,700
150	61.7	19,800	17,300			23,600	22,900
160	59.6	17,400	15,100			21,800	20,200
170	57.4	15,300	13,100			20,200	17,800
180	55.2	13,400	11,300			18,400	15,800
190	52.9	11,700	9,800			16,400	13,900
200	50.6	10,200	8,400			14,600	12,300
210	48.1	8,900	7,100			13,000	10,800
220	45.6	7,600	6,000			11,500	9,500
230	43.0	6,500	4,900			10,100	8,300
240	40.2	5,500	4,000			8,700	7,200
250	37.2	4,600	3,100			7,500	6,200
260	34.1	3,700	2,300			6,300	5,200
270	30.6	2,900	—			5,300	4,400
280	26.7	2,200	—			4,300	3,500
290	22.3	—	—			3,400	2,800
300	16.8	—	—			2,500	2,100

Main Boom Capacities – 330 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
49.1	82.0	47,900	PROHIBITED	PROHIBITED	PROHIBITED	47,900	47,900
50	81.8	47,900				47,900	47,900
60	80.1	47,300				47,300	47,300
70	78.3	43,100				43,100	43,100
80	76.5	36,400				36,400	36,400
90	74.7	33,400				33,400	33,400
100	72.9	30,700				30,700	30,700
110	71.1	28,000				28,000	28,000
120	69.3	25,900				25,900	25,900
130	67.4	23,600				23,600	23,600
140	65.5	21,900				21,900	21,900
150	63.6	19,100				20,100	20,100
160	61.6	16,600				18,600	18,600
170	59.6	14,500				17,200	17,200
180	57.6	12,600				15,900	15,900
190	55.5	10,900				14,700	14,700
200	53.4	9,400				13,600	13,600
210	51.2	8,100				12,000	12,000
220	48.9	6,900				10,400	10,400
230	46.6	5,800				9,000	9,000
240	44.1	4,700				7,700	7,700
250	41.6	3,800				6,400	6,400
260	38.9	2,900				5,300	5,300
270	36.0	2,100				4,200	4,200
280	33.0	—				3,300	3,300
290	29.6	—				2,300	2,300

Suggested Open Throat Boom Make Up





Lifting Capacities

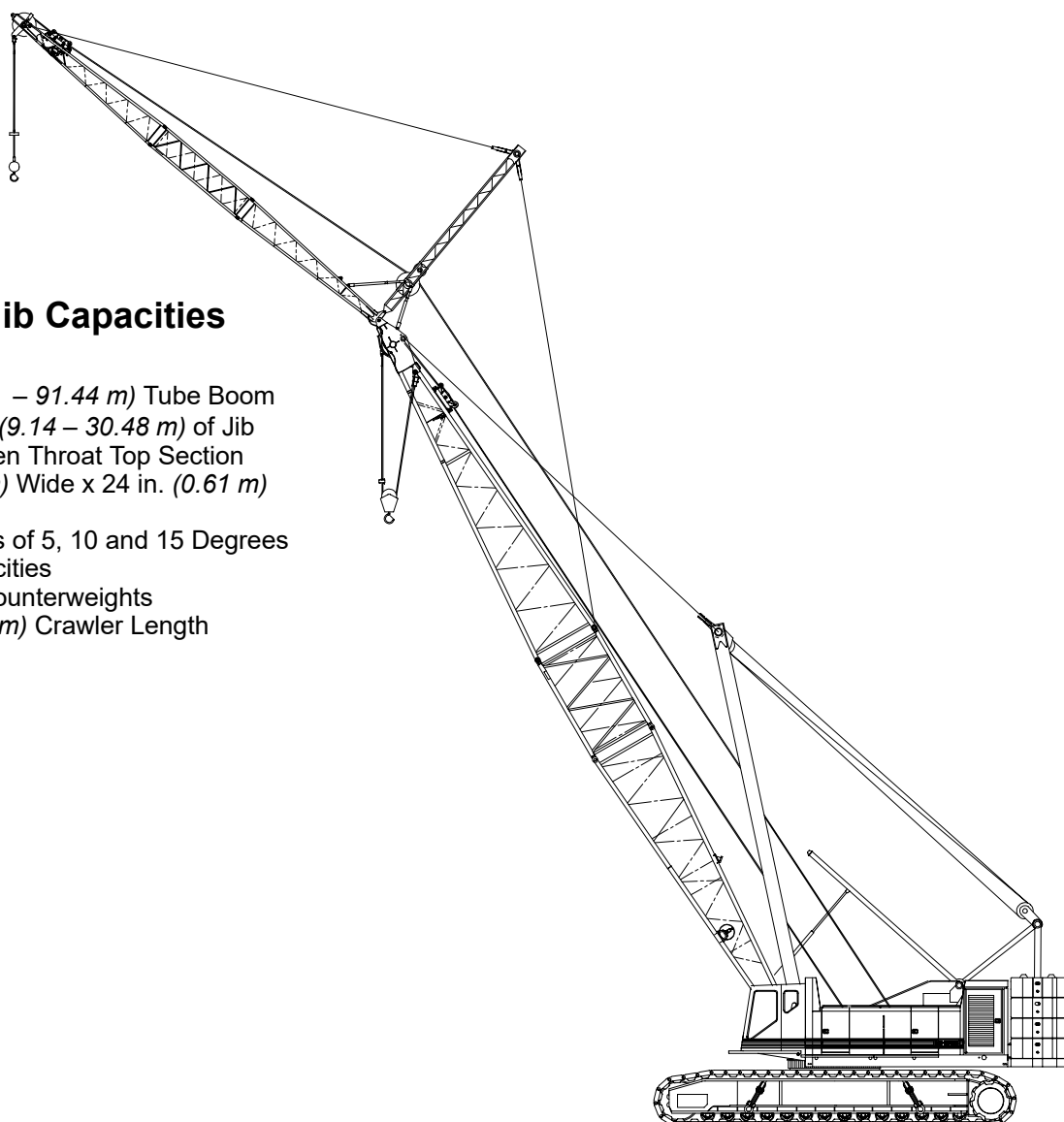
Hydraulic Lattice Boom Crawler Crane

LS-278H

250-ton (227 metric ton)

Tube Boom + Jib Capacities

- 60 – 300 ft. (18.29 – 91.44 m) Tube Boom with 30 – 100 ft. (9.14 – 30.48 m) of Jib
- 30 ft. (9.14 m) Open Throat Top Section with 32 in. (0.81 m) Wide x 24 in. (0.61 m) Deep Jib
- Tubular Jib Offsets of 5, 10 and 15 Degrees
- 360 Degree Capacities
- 135K plus LWR Counterweights
- 30 ft. – 5 in. (9.27 m) Crawler Length

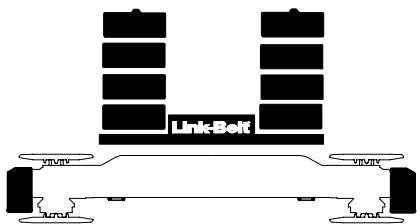
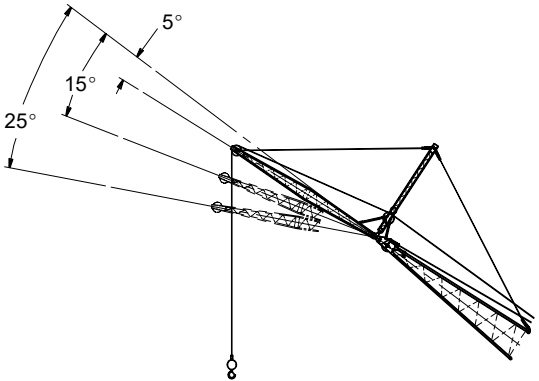


CAUTION: This material is supplied for reference use only. Operator must refer to in-cab Crane Rating Manual to determine allowable machine lifting capacities and operating procedures.

TUBULAR JIB NOTES FOR OPEN THROAT BOOM

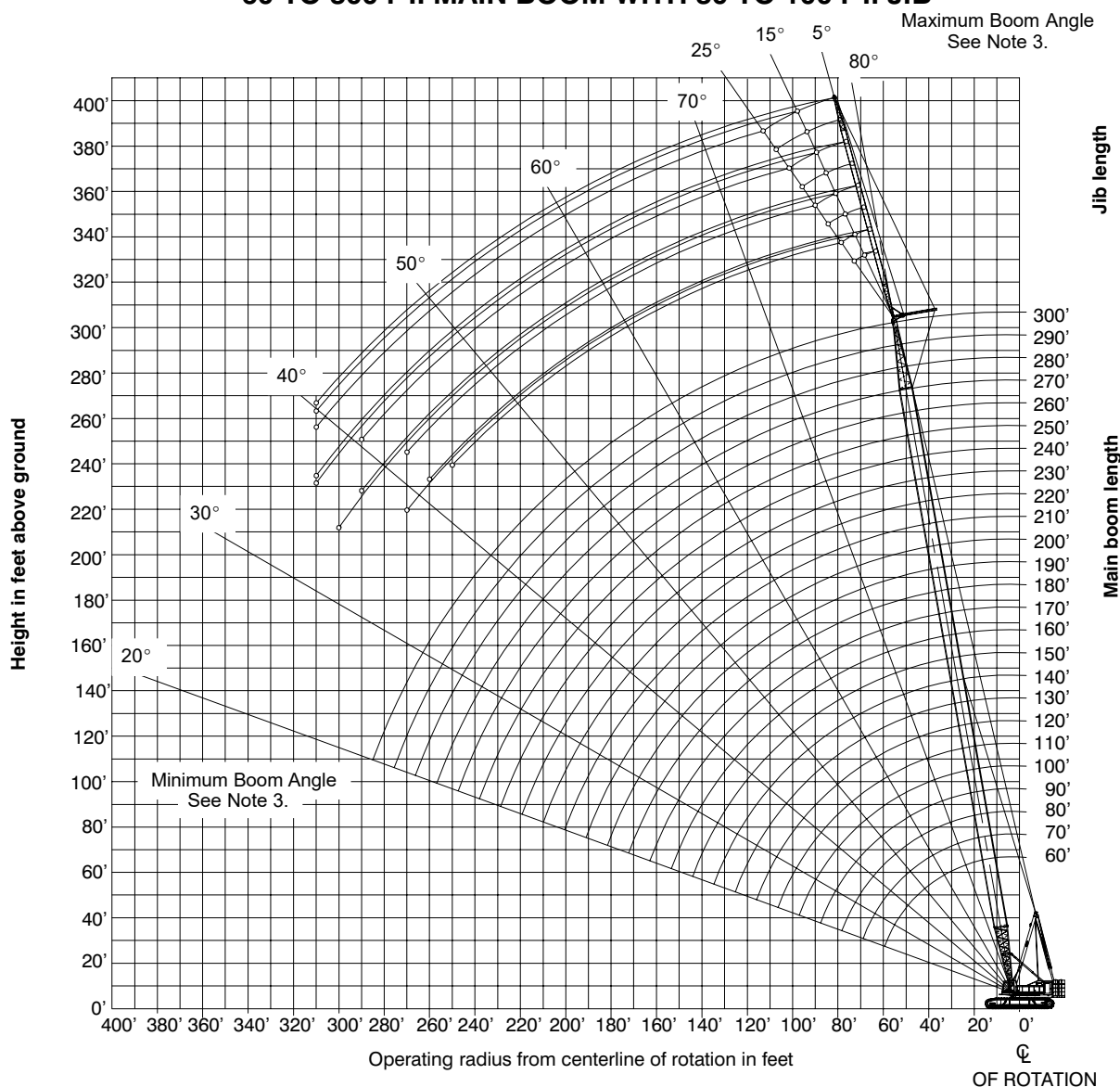
1. Capacities are for a LS-278H crawler crane with 135,000 lbs. of upper counterweight plus full lower counterweight.
2. Capacities are for on crawler working areas for 360°, described on the Working Area Chart found in the General Information Section of this Crane Rating Manual and are based on crane standing level on firm supporting surface.
3. Capacities are limited to a LBCE 68 x 80 in. "JE" wall tubular boom with an open throat and a LBCE 30 ton, 24 x 32 in. cross – section jib with a 17 ft.–10 in. high jib mast properly assembled.
4. Two parts of 1.00 in. Diameter Type "N" wire rope are required for maximum lift.
5. Capacities are for 30, 40, 60, 80 and 100 ft. jib lengths only. Capacities for all jib lengths exist in the published crane rating manual.
6. A jib cannot be used on open throat boom lengths longer than 300 ft.
7. The least stable condition is over the side.
8. All capacities are in pounds and are not more than 75% of the tipping loads. The shaded capacities (typically above the bold line) are governed by factors other than those that would cause a tipping condition.
9. 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, load weighing devices, etc.

TUBULAR JIB NOTES FOR OPEN THROAT BOOM

	
Full Counterweight Combination	Tubular Jib Offset Angle Diagram

WORKING RANGE DIAGRAM

60 TO 300 FT. MAIN BOOM WITH 30 TO 100 FT. 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. Tube jib, 24 in. deep x 32 in. wide.
 - A. 30 ft. minimum length.
 - B. 100 ft. maximum length.
 - C. 60 + 30 ft. minimum combination.
 - D. 300 ft. + 100 ft. maximum combination.
 - E. 5°, 15° and 25° offsets.
3. Maximum and minimum boom angles are equal to the values listed in the capacity chart for each boom length.
4. For clarity, only 40, 60, 80 and 100 ft. jib lengths are shown.



LS-278H - w/ 68" x 80" Tube Boom, w/ 24" x 32" Tube Jib, w/ 135K + LWR Cwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)
140	30	29.74	82.0	177.2	60,000						
140	30	30	81.9	177.1	60,000						
140	30	35	80.2	176.3	60,000	81.9	175.5	57,500			
140	30	40	78.5	175.2	60,000	80.2	174.5	56,800	81.8	172.9	50,300
140	30	50	75.1	172.7	58,800	76.8	172.0	55,600	78.3	170.4	45,600
140	30	60	71.6	169.6	57,400	73.2	168.8	54,500	74.8	167.2	41,800
140	30	70	68.0	165.7	56,100	69.7	164.9	51,200	71.1	163.3	38,700
140	30	80	64.4	161.2	55,000	66.0	160.3	46,500	67.4	158.6	36,900
140	30	90	60.6	155.8	52,700	62.2	154.9	42,600	63.6	153.1	36,900
140	30	100	56.7	149.4	45,800	58.2	148.5	39,400	59.6	146.7	36,100
140	30	110	52.6	142.1	40,200	54.1	141.2	36,700	55.4	139.2	34,200
140	30	120	48.2	133.6	35,900	49.7	132.6	36,100	50.9	130.5	32,500
140	30	130	43.5	123.6	32,100	44.9	122.4	32,200	46.1	120.2	31,200
140	30	140	38.3	111.7	28,900	39.7	110.4	28,900			
140	30	150	32.4	97.1	26,100						
140	30	160	25.3	78.3	23,700						
140	40	31.99	82.0	186.9	51,200						
140	40	35	81.0	186.4	50,700						
140	40	40	79.4	185.4	49,900	81.6	184.5	46,600			
140	40	50	76.2	183.1	48,500	78.3	182.1	45,400	80.3	180.2	36,800
140	40	60	72.9	180.1	47,100	75.0	179.1	44,400	76.9	177.1	36,200
140	40	70	69.6	176.5	45,900	71.6	175.5	40,200	73.5	173.5	33,200
140	40	80	66.2	172.2	44,800	68.2	171.2	36,600	70.1	169.1	30,800
140	40	90	62.7	167.2	41,900	64.7	166.1	36,600	66.5	164.0	28,700
140	40	100	59.0	161.4	37,700	61.0	160.2	34,800	62.8	158.0	27,000
140	40	110	55.2	154.6	36,900	57.2	153.4	32,300	58.9	151.1	25,500
140	40	120	51.2	146.8	35,100	53.2	145.6	30,100	54.8	143.1	24,200
140	40	130	47.0	137.8	32,300	48.9	136.5	28,300	50.4	133.9	23,200
140	40	140	42.5	127.4	29,200	44.3	125.9	26,700	45.7	123.0	22,300
140	40	150	37.4	114.9	26,500	39.2	113.3	25,400			
140	40	160	31.7	99.8	24,100						
140	60	36.48	82.0	206.4	33,700						
140	60	40	81.0	205.8	33,400						
140	60	50	78.1	203.7	32,500	81.0	202.3	30,500			
140	60	60	75.2	201.0	31,600	78.0	199.7	29,800	80.7	197.0	24,100
140	60	70	72.2	197.8	30,800	75.0	196.4	29,100	77.7	193.7	22,100
140	60	80	69.2	194.0	30,100	72.0	192.6	27,700	74.6	189.8	20,500
140	60	90	66.1	189.6	29,400	68.8	188.2	25,200	71.4	185.3	19,100
140	60	100	62.9	184.5	28,700	65.6	183.0	23,200	68.1	180.1	17,900
140	60	110	59.6	178.6	27,600	62.3	177.1	21,500	64.8	174.1	16,900
140	60	120	56.2	172.0	25,200	58.9	170.4	20,100	61.3	167.3	16,000
140	60	130	52.6	164.5	23,200	55.3	162.8	18,800	57.6	159.5	15,200
140	60	140	48.9	155.9	21,400	51.5	154.1	17,800	53.7	150.6	14,500
140	60	150	44.9	146.0	20,000	47.5	144.1	16,800	49.6	140.4	14,000
140	60	160	40.6	134.6	18,700	43.1	132.6	16,000	45.1	128.5	13,500
140	60	170	35.9	121.2	17,600	38.3	119.0	15,300			
140	60	180	30.5	105.1	16,600						
140	80	40.98	82.0	225.9	23,600						
140	80	50	79.6	224.1	23,300						
140	80	60	77.0	221.7	23,100	80.5	220.1	22,100			
140	80	70	74.3	218.8	22,900	77.8	217.2	21,600	81.1	214.0	16,500
140	80	80	71.6	215.4	22,400	75.0	213.8	20,800	78.3	210.5	15,200
140	80	90	68.8	211.5	21,800	72.2	209.8	19,000	75.4	206.4	14,100
140	80	100	66.0	206.9	21,100	69.4	205.2	17,500	72.5	201.7	13,200
140	80	110	63.1	201.8	20,400	66.4	200.0	16,200	69.5	196.4	12,400
140	80	120	60.1	195.9	19,300	63.4	194.1	15,000	66.5	190.4	11,700
140	80	130	57.0	189.4	17,800	60.3	187.5	14,100	63.3	183.7	11,100
140	80	140	53.8	182.0	16,500	57.1	180.0	13,200	60.0	176.1	10,600
140	80	150	50.4	173.7	15,400	53.7	171.6	12,500	56.5	167.5	10,100
140	80	160	46.9	164.3	14,400	50.1	162.1	11,800	52.8	157.7	9,700
140	80	170	43.1	153.7	13,500	46.3	151.3	11,300	48.9	146.6	9,300
140	80	180	39.1	141.5	12,700	42.1	138.9	10,800			
140	80	190	34.6	127.2	12,100	37.5	124.3	10,300			
140	80	200	29.5	110.1	11,500						



LS-278H - w/ 68" x 80" Tube Boom, w/ 24" x 32" Tube Jib, w/ 135K + LWR Cwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)
140	100	45.48	82.0	245.4	13,600						
140	100	50	80.9	244.5	13,200						
140	100	60	78.5	242.3	12,500						
140	100	70	76.0	239.7	11,700	80.0	237.8	10,200			
140	100	80	73.6	236.6	11,100	77.5	234.7	9,600	81.3	230.9	8,300
140	100	90	71.1	233.0	10,400	75.0	231.1	9,000	78.8	227.3	7,900
140	100	100	68.5	228.9	9,800	72.4	226.9	8,500	76.1	223.1	7,500
140	100	110	65.9	224.3	9,200	69.8	222.3	8,100	73.5	218.3	7,100
140	100	120	63.2	219.1	8,700	67.1	217.0	7,600	70.7	212.9	6,800
140	100	130	60.5	213.2	8,200	64.3	211.1	7,200	67.9	206.9	6,400
140	100	140	57.7	206.7	7,800	61.5	204.6	6,900	65.0	200.2	6,100
140	100	150	54.7	199.5	7,300	58.5	197.3	6,500	62.0	192.7	5,900
140	100	160	51.7	191.5	6,900	55.5	189.1	6,200	58.8	184.4	5,600
140	100	170	48.5	182.5	6,600	52.2	180.0	5,900	55.5	175.0	5,400
140	100	180	45.2	172.4	6,200	48.8	169.8	5,700	52.0	164.5	5,200
140	100	190	41.6	161.0	5,900	45.2	158.2	5,400	48.2	152.5	5,100
140	100	200	37.7	148.0	5,600	41.2	144.9	5,200			
140	100	210	33.4	132.9	5,400	36.8	129.4	5,100			
140	100	220	28.5	114.8	5,200						
160	30	32.52	82.0	197.0	60,000						
160	30	35	81.3	196.6	60,000						
160	30	40	79.7	195.7	60,000	81.2	194.9	56,400			
160	30	50	76.7	193.4	58,600	78.2	192.6	55,300	79.6	191.1	47,100
160	30	60	73.6	190.6	57,300	75.1	189.8	54,300	76.4	188.2	43,400
160	30	70	70.4	187.2	56,100	71.9	186.4	53,500	73.2	184.8	40,400
160	30	80	67.2	183.2	55,100	68.7	182.4	49,700	70.0	180.7	37,700
160	30	90	63.9	178.5	52,100	65.4	177.6	45,700	66.6	175.9	36,800
160	30	100	60.5	173.1	45,100	62.0	172.2	42,300	63.2	170.4	36,800
160	30	110	57.0	166.8	39,500	58.4	165.9	39,400	59.6	164.1	36,100
160	30	120	53.4	159.7	35,200	54.7	158.7	35,400	55.9	156.8	34,300
160	30	130	49.5	151.5	31,400	50.9	150.5	31,600	52.0	148.4	31,800
160	30	140	45.4	142.1	28,200	46.7	141.0	28,300	47.8	138.8	28,500
160	30	150	41.0	131.1	25,400	42.3	129.9	25,500			
160	30	160	36.1	118.2	23,000	37.4	116.9	23,000			
160	30	170	30.6	102.6	20,900						
160	40	34.77	82.0	206.7	50,400						
160	40	35	81.9	206.7	50,300						
160	40	40	80.5	205.8	49,700						
160	40	50	77.6	203.7	48,300	79.5	202.7	45,200	81.3	200.7	36,800
160	40	60	74.7	201.1	47,100	76.6	200.0	44,300	78.3	198.0	36,800
160	40	70	71.7	197.8	46,000	73.6	196.8	42,500	75.3	194.8	34,600
160	40	80	68.7	194.0	45,000	70.5	193.0	38,800	72.2	190.9	32,200
160	40	90	65.6	189.6	44,100	67.4	188.5	36,800	69.0	186.4	30,100
160	40	100	62.4	184.5	41,500	64.2	183.4	36,800	65.8	181.2	28,400
160	40	110	59.1	178.7	37,800	60.9	177.5	34,700	62.5	175.3	26,800
160	40	120	55.7	172.1	35,600	57.5	170.9	32,400	59.0	168.5	25,500
160	40	130	52.2	164.5	31,800	53.9	163.2	30,400	55.4	160.8	24,400
160	40	140	48.4	155.9	28,500	50.1	154.6	28,700	51.5	151.9	23,400
160	40	150	44.4	146.1	25,800	46.1	144.6	25,900	47.4	141.8	22,600
160	40	160	40.2	134.7	23,400	41.8	133.1	23,500			
160	40	170	35.4	121.3	21,300	37.0	119.6	21,300			
160	40	180	30.0	105.2	19,400						
160	60	39.27	82.0	226.2	33,300						
160	60	40	81.8	226.1	33,200						
160	60	50	79.2	224.2	32,400	81.8	222.8	30,400			
160	60	60	76.5	221.8	31,600	79.1	220.4	29,700	81.6	217.7	24,700
160	60	70	73.8	218.9	30,900	76.4	217.5	29,100	78.8	214.7	22,800
160	60	80	71.1	215.5	30,200	73.7	214.0	28,600	76.1	211.2	21,200
160	60	90	68.4	211.5	29,600	70.9	210.0	26,700	73.2	207.2	19,800
160	60	100	65.5	207.0	29,000	68.0	205.5	24,700	70.3	202.5	18,600
160	60	110	62.6	201.8	28,400	65.1	200.3	22,900	67.4	197.2	17,600
160	60	120	59.6	196.0	27,600	62.1	194.4	21,400	64.3	191.3	16,700
160	60	130	56.6	189.4	25,300	59.0	187.8	20,100	61.1	184.5	15,900
160	60	140	53.3	182.0	23,500	55.8	180.3	19,000	57.9	177.0	15,200
160	60	150	50.0	173.7	21,900	52.4	172.0	18,000	54.4	168.4	14,600



LS-278H - w/ 68" x 80" Tube Boom, w/ 24" x 32" Tube Jib, w/ 135K + LWR Cwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)
160	60	160	46.5	164.4	20,500	48.8	162.5	17,100	50.7	158.7	14,100
160	60	170	42.7	153.7	19,200	45.0	151.7	16,300	46.8	147.7	13,600
160	60	180	38.6	141.5	18,200	40.9	139.3	15,600			
160	60	190	34.1	127.3	17,200	36.3	124.8	15,100			
160	60	200	29.0	110.1	16,400						
160	80	43.77	82.0	245.7	23,200						
160	80	50	80.5	244.5	23,100						
160	80	60	78.1	242.4	22,900	81.3	240.7	22,100			
160	80	70	75.6	239.7	22,600	78.8	238.0	21,600	81.8	234.6	16,800
160	80	80	73.2	236.6	22,400	76.3	234.9	21,100	79.3	231.5	15,600
160	80	90	70.6	233.0	22,000	73.8	231.3	19,900	76.7	227.8	14,600
160	80	100	68.1	228.9	21,500	71.2	227.1	18,400	74.1	223.6	13,700
160	80	110	65.5	224.3	20,900	68.6	222.5	17,000	71.4	218.8	12,900
160	80	120	62.8	219.1	20,200	65.9	217.2	15,900	68.7	213.5	12,200
160	80	130	60.1	213.3	19,300	63.1	211.3	14,900	65.9	207.5	11,500
160	80	140	57.3	206.8	17,900	60.3	204.8	14,000	63.0	200.8	11,000
160	80	150	54.3	199.5	16,700	57.3	197.5	13,300	60.0	193.4	10,500
160	80	160	51.3	191.5	15,600	54.3	189.3	12,600	56.8	185.0	10,100
160	80	170	48.1	182.5	14,600	51.0	180.2	12,000	53.5	175.7	9,700
160	80	180	44.8	172.4	13,800	47.6	170.0	11,400	50.0	165.2	9,400
160	80	190	41.2	161.1	13,100	44.0	158.5	11,000	46.3	153.3	9,100
160	80	200	37.3	148.1	12,400	40.0	145.2	10,500			
160	80	210	33.0	133.0	11,800	35.7	129.8	10,200			
160	80	220	28.1	114.8	11,300						
160	100	48.27	82.0	265.2	13,500						
160	100	50	81.6	264.9	13,400						
160	100	60	79.4	262.9	12,600						
160	100	70	77.1	260.4	12,000	80.8	258.5	10,300			
160	100	80	74.9	257.6	11,300	78.5	255.6	9,700			
160	100	90	72.6	254.3	10,700	76.2	252.3	9,200	79.7	248.3	8,000
160	100	100	70.2	250.6	10,200	73.9	248.5	8,800	77.3	244.5	7,600
160	100	110	67.9	246.3	9,600	71.5	244.3	8,300	74.9	240.2	7,200
160	100	120	65.4	241.6	9,100	69.0	239.5	7,900	72.4	235.3	6,900
160	100	130	63.0	236.4	8,600	66.5	234.2	7,500	69.9	229.9	6,600
160	100	140	60.4	230.5	8,200	64.0	228.3	7,100	67.2	223.9	6,300
160	100	150	57.8	224.1	7,700	61.4	221.8	6,800	64.6	217.3	6,100
160	100	160	55.2	217.0	7,300	58.7	214.7	6,500	61.8	209.9	5,800
160	100	170	52.4	209.2	7,000	55.8	206.7	6,200	58.9	201.8	5,600
160	100	180	49.5	200.5	6,600	52.9	197.9	5,900	55.9	192.8	5,400
160	100	190	46.5	190.8	6,300	49.8	188.1	5,700	52.7	182.7	5,200
160	100	200	43.2	180.1	6,000	46.6	177.2	5,500	49.4	171.5	5,100
160	100	210	39.8	168.0	5,700	43.1	164.9	5,300	45.8	158.7	4,900
160	100	220	36.1	154.3	5,500	39.3	150.9	5,100			
160	100	230	32.0	138.4	5,300	35.1	134.6	5,000			
160	100	240	27.3	119.4	5,100						
180	30	35.3	82.0	216.8	60,000						
180	30	40	80.7	216.0	59,400						
180	30	50	78.0	214.0	58,100	79.3	213.2	54,800	80.6	211.6	48,400
180	30	60	75.2	211.5	56,900	76.5	210.7	53,900	77.8	209.1	44,800
180	30	70	72.4	208.4	55,800	73.7	207.6	53,100	74.9	206.0	41,800
180	30	80	69.5	204.8	54,900	70.8	204.0	52,400	72.0	202.3	39,200
180	30	90	66.6	200.7	51,400	67.9	199.8	48,600	69.0	198.1	37,000
180	30	100	63.6	195.9	44,400	64.9	195.0	44,800	66.0	193.2	36,800
180	30	110	60.5	190.4	38,800	61.8	189.5	39,100	62.9	187.7	36,800
180	30	120	57.3	184.2	34,500	58.6	183.3	34,800	59.7	181.4	35,100
180	30	130	54.0	177.2	30,700	55.3	176.2	30,900	56.3	174.3	31,200
180	30	140	50.6	169.3	27,500	51.8	168.2	27,600	52.8	166.2	27,900
180	30	150	47.0	160.3	24,700	48.1	159.2	24,800	49.1	157.0	25,000
180	30	160	43.1	150.0	22,300	44.3	148.9	22,400	45.1	146.5	22,500
180	30	170	38.9	138.2	20,200	40.0	137.0	20,200			
180	30	180	34.3	124.4	18,300	35.4	123.0	18,400			
180	30	190	29.1	107.8	16,700						
180	40	37.55	82.0	226.5	49,400						
180	40	40	81.4	226.1	49,100						



LS-278H - w/ 68" x 80" Tube Boom, w/ 24" x 32" Tube Jib, w/ 135K + LWR Cwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)
180	40	50	78.7	224.2	48,000	80.5	223.2	44,900			
180	40	60	76.1	221.8	46,900	77.8	220.8	44,000	79.4	218.7	36,700
180	40	70	73.4	218.9	45,900	75.1	217.9	43,200	76.7	215.8	35,900
180	40	80	70.7	215.5	44,900	72.4	214.4	40,900	73.9	212.3	33,400
180	40	90	67.9	211.5	44,100	69.6	210.5	37,800	71.1	208.3	31,400
180	40	100	65.1	207.0	43,300	66.7	205.9	36,800	68.2	203.7	29,600
180	40	110	62.2	201.8	39,100	63.8	200.7	36,800	65.3	198.4	28,000
180	40	120	59.2	196.0	34,900	60.8	194.8	34,600	62.2	192.5	26,700
180	40	130	56.1	189.5	31,000	57.7	188.2	31,400	59.1	185.8	25,500
180	40	140	52.9	182.1	27,800	54.5	180.8	28,100	55.8	178.3	24,500
180	40	150	49.6	173.8	25,000	51.1	172.5	25,300	52.4	169.8	23,500
180	40	160	46.0	164.4	22,600	47.6	163.0	22,800	48.8	160.2	22,800
180	40	170	42.3	153.8	20,500	43.8	152.3	20,700			
180	40	180	38.2	141.6	18,700	39.6	140.0	18,800			
180	40	190	33.7	127.4	17,000	35.1	125.5	17,100			
180	40	200	28.6	110.2	15,500						
180	60	42.05	82.0	246.0	32,800						
180	60	50	80.1	244.6	32,200						
180	60	60	77.7	242.4	31,500	80.0	241.0	29,600			
180	60	70	75.2	239.7	30,800	77.6	238.3	29,000	79.8	235.5	23,400
180	60	80	72.7	236.6	30,200	75.1	235.2	28,500	77.3	232.3	21,800
180	60	90	70.2	233.1	29,600	72.6	231.6	28,000	74.7	228.7	20,400
180	60	100	67.7	229.0	29,100	70.0	227.5	26,000	72.1	224.5	19,300
180	60	110	65.1	224.3	28,600	67.4	222.8	24,200	69.5	219.7	18,200
180	60	120	62.4	219.1	28,100	64.7	217.5	22,600	66.7	214.4	17,300
180	60	130	59.7	213.3	27,500	61.9	211.7	21,300	63.9	208.5	16,500
180	60	140	56.8	206.8	25,500	59.1	205.1	20,100	61.0	201.8	15,800
180	60	150	53.9	199.6	23,700	56.1	197.9	19,000	58.0	194.4	15,200
180	60	160	50.9	191.5	22,200	53.1	189.7	18,100	54.9	186.1	14,600
180	60	170	47.7	182.5	20,900	49.9	180.6	17,300	51.6	176.9	14,100
180	60	180	44.4	172.5	19,200	46.5	170.5	16,600	48.2	166.4	13,700
180	60	190	40.8	161.1	17,500	42.8	158.9	15,900			
180	60	200	36.9	148.1	16,100	38.9	145.7	15,300			
180	60	210	32.6	133.0	14,700						
180	60	220	27.7	114.9	13,500						
180	80	46.55	82.0	265.5	22,900						
180	80	50	81.2	264.9	22,800						
180	80	60	79.0	262.9	22,600						
180	80	70	76.8	260.5	22,400	79.7	258.7	21,600			
180	80	80	74.5	257.6	22,300	77.4	255.8	21,200	80.2	252.3	16,000
180	80	90	72.2	254.3	22,000	75.1	252.5	20,600	77.8	249.0	15,000
180	80	100	69.9	250.6	21,600	72.7	248.8	19,200	75.4	245.1	14,000
180	80	110	67.5	246.4	21,200	70.3	244.5	17,900	73.0	240.8	13,300
180	80	120	65.1	241.6	20,600	67.9	239.8	16,700	70.5	236.0	12,600
180	80	130	62.6	236.4	20,000	65.4	234.5	15,700	68.0	230.6	12,000
180	80	140	60.1	230.6	19,200	62.9	228.6	14,800	65.4	224.6	11,400
180	80	150	57.5	224.1	17,900	60.3	222.1	14,000	62.7	218.0	10,900
180	80	160	54.8	217.0	16,800	57.5	214.9	13,300	60.0	210.7	10,500
180	80	170	52.0	209.2	15,800	54.7	207.0	12,600	57.1	202.6	10,100
180	80	180	49.1	200.5	14,900	51.8	198.2	12,100	54.1	193.6	9,700
180	80	190	46.1	190.9	14,100	48.7	188.5	11,500	51.0	183.6	9,400
180	80	200	42.9	180.1	13,400	45.5	177.6	11,100	47.6	172.4	9,100
180	80	210	39.4	168.1	12,700	42.0	165.3	10,700			
180	80	220	35.7	154.3	12,200	38.2	151.3	10,300			
180	80	230	31.6	138.4	11,700						
180	80	240	26.9	119.4	11,200						
180	100	51.05	82.0	285.0	13,400						
180	100	60	80.2	283.3	12,800						
180	100	70	78.1	281.0	12,200	81.5	279.0	10,400			
180	100	80	76.0	278.4	11,600	79.4	276.4	9,900			
180	100	90	73.8	275.4	11,000	77.2	273.3	9,400	80.5	269.2	8,100
180	100	100	71.7	271.9	10,400	75.1	269.9	8,900	78.3	265.7	7,700
180	100	110	69.5	268.1	9,900	72.9	265.9	8,500	76.1	261.7	7,400
180	100	120	67.3	263.8	9,400	70.7	261.6	8,100	73.8	257.3	7,000
180	100	130	65.1	259.0	9,000	68.4	256.8	7,700	71.5	252.4	6,700



LS-278H - w/ 68" x 80" Tube Boom, w/ 24" x 32" Tube Jib, w/ 135K + LWR Cwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)
180	100	140	62.8	253.7	8,500	66.1	251.4	7,400	69.1	246.9	6,500
180	100	150	60.4	247.9	8,100	63.7	245.6	7,100	66.7	241.0	6,200
180	100	160	58.0	241.5	7,700	61.3	239.1	6,700	64.2	234.4	6,000
180	100	170	55.5	234.5	7,300	58.8	232.0	6,500	61.7	227.2	5,700
180	100	180	53.0	226.8	7,000	56.2	224.3	6,200	59.0	219.2	5,600
180	100	190	50.3	218.4	6,700	53.5	215.7	5,900	56.3	210.5	5,400
180	100	200	47.5	209.1	6,400	50.7	206.3	5,700	53.4	200.8	5,200
180	100	210	44.6	198.8	6,100	47.7	195.9	5,500	50.3	190.1	5,100
180	100	220	41.6	187.5	5,800	44.6	184.4	5,300	47.1	178.2	4,900
180	100	230	38.3	174.7	5,600	41.3	171.4	5,200			
180	100	240	34.7	160.3	5,400	37.6	156.7	5,000			
180	100	250	30.8	143.6	5,200						
180	100	260	26.2	123.8	5,000						
200	30	38.09	82.0	236.6	58,600						
200	30	40	81.5	236.3	58,400						
200	30	50	79.0	234.5	57,200	80.3	233.6	54,000	81.4	232.0	49,500
200	30	60	76.5	232.2	56,200	77.7	231.3	53,200	78.9	229.7	46,000
200	30	70	73.9	229.4	55,200	75.1	228.6	52,500	76.3	226.9	43,100
200	30	80	71.3	226.2	54,300	72.5	225.3	51,800	73.6	223.6	40,500
200	30	90	68.7	222.4	50,600	69.9	221.5	51,200	71.0	219.8	38,300
200	30	100	66.0	218.1	43,600	67.2	217.2	44,100	68.3	215.5	36,400
200	30	110	63.3	213.2	38,000	64.4	212.3	38,400	65.5	210.5	36,400
200	30	120	60.5	207.7	33,800	61.6	206.8	34,100	62.6	205.0	34,500
200	30	130	57.6	201.5	30,000	58.7	200.6	30,200	59.7	198.7	30,500
200	30	140	54.6	194.7	26,700	55.7	193.7	26,900	56.6	191.7	27,200
200	30	150	51.4	186.9	23,900	52.6	185.9	24,100	53.5	183.9	24,400
200	30	160	48.2	178.3	21,500	49.3	177.2	21,700	50.2	175.1	21,900
200	30	170	44.7	168.6	19,400	45.8	167.4	19,500	46.7	165.2	19,700
200	30	180	41.1	157.6	17,600	42.1	156.4	17,700			
200	30	190	37.1	145.0	15,900	38.1	143.6	16,000			
200	30	200	32.7	130.3	14,400						
200	30	210	27.7	112.7	13,100						
200	40	40.34	82.0	246.3	48,400						
200	40	50	79.7	244.6	47,300	81.3	243.6	44,400			
200	40	60	77.3	242.4	46,400	78.8	241.4	43,500	80.3	239.3	36,700
200	40	70	74.8	239.8	45,400	76.4	238.7	42,800	77.8	236.6	36,700
200	40	80	72.3	236.7	44,600	73.9	235.6	42,100	75.3	233.5	34,600
200	40	90	69.8	233.1	43,800	71.4	232.0	39,600	72.8	229.9	32,500
200	40	100	67.3	229.0	43,000	68.8	227.9	36,900	70.2	225.7	30,700
200	40	110	64.7	224.4	38,300	66.2	223.2	36,700	67.5	221.0	29,200
200	40	120	62.0	219.2	34,100	63.5	218.0	34,600	64.8	215.7	27,800
200	40	130	59.3	213.3	30,300	60.7	212.2	30,700	62.0	209.8	26,600
200	40	140	56.4	206.9	27,100	57.9	205.6	27,400	59.2	203.2	25,500
200	40	150	53.5	199.6	24,300	55.0	198.4	24,600	56.2	195.8	24,500
200	40	160	50.5	191.6	21,900	51.9	190.3	22,100	53.1	187.6	22,400
200	40	170	47.3	182.6	19,800	48.7	181.2	20,000	49.8	178.4	20,200
200	40	180	44.0	172.5	17,900	45.3	171.1	18,100	46.4	168.1	18,300
200	40	190	40.4	161.2	16,200	41.7	159.6	16,400			
200	40	200	36.5	148.2	14,800	37.8	146.4	14,900			
200	40	210	32.2	133.1	13,400						
200	40	220	27.3	115.0	12,200						
200	60	44.84	82.0	265.8	32,200						
200	60	50	80.9	264.9	31,900						
200	60	60	78.6	262.9	31,300	80.8	261.5	29,400			
200	60	70	76.4	260.5	30,700	78.6	259.0	28,800	80.6	256.1	23,900
200	60	80	74.1	257.6	30,100	76.3	256.2	28,400	78.3	253.2	22,300
200	60	90	71.8	254.4	29,600	74.0	252.9	27,900	76.0	249.9	21,000
200	60	100	69.5	250.6	29,000	71.6	249.1	27,200	73.6	246.1	19,900
200	60	110	67.1	246.4	28,600	69.2	244.9	25,400	71.2	241.8	18,900
200	60	120	64.7	241.7	28,100	66.8	240.1	23,800	68.7	237.0	17,900
200	60	130	62.2	236.4	27,700	64.3	234.8	22,400	66.2	231.6	17,100
200	60	140	59.7	230.6	27,300	61.8	229.0	21,200	63.6	225.7	16,400
200	60	150	57.1	224.2	24,800	59.2	222.5	20,100	61.0	219.1	15,800
200	60	160	54.4	217.1	22,400	56.5	215.3	19,100	58.2	211.8	15,200
200	60	170	51.6	209.2	20,300	53.7	207.4	18,200	55.4	203.8	14,700



LS-278H - w/ 68" x 80" Tube Boom, w/ 24" x 32" Tube Jib, w/ 135K + LWR Cwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)
200	60	180	48.7	200.6	18,400	50.7	198.6	17,500	52.4	194.8	14,200
200	60	190	45.7	190.9	16,800	47.7	188.9	16,800	49.3	184.9	13,800
200	60	200	42.5	180.2	15,300	44.4	178.1	15,500	45.9	173.8	13,500
200	60	210	39.1	168.1	14,000	40.9	165.8	14,200			
200	60	220	35.4	154.4	12,800	37.2	151.9	12,900			
200	60	230	31.3	138.5	11,700						
200	60	240	26.6	119.5	10,700						
200	80	49.33	82.0	285.3	22,500						
200	80	50	81.9	285.2	22,500						
200	80	60	79.8	283.3	22,300						
200	80	70	77.7	281.1	22,100	80.4	279.3	21,500			
200	80	80	75.6	278.4	22,000	78.3	276.6	21,100	80.9	273.0	16,300
200	80	90	73.5	275.4	21,800	76.2	273.6	20,700	78.7	269.9	15,300
200	80	100	71.3	272.0	21,600	74.0	270.1	20,000	76.5	266.4	14,400
200	80	110	69.2	268.1	21,200	71.8	266.2	18,600	74.3	262.5	13,600
200	80	120	67.0	263.8	20,900	69.6	261.9	17,500	72.1	258.1	12,900
200	80	130	64.7	259.0	20,400	67.3	257.0	16,400	69.8	253.2	12,300
200	80	140	62.4	253.7	19,800	65.0	251.7	15,500	67.4	247.7	11,800
200	80	150	60.1	247.9	19,200	62.7	245.9	14,700	65.0	241.8	11,300
200	80	160	57.7	241.5	18,000	60.2	239.4	13,900	62.5	235.2	10,800
200	80	170	55.2	234.5	16,900	57.7	232.3	13,300	60.0	228.0	10,400
200	80	180	52.6	226.8	16,000	55.1	224.6	12,700	57.3	220.1	10,100
200	80	190	50.0	218.4	15,100	52.5	216.1	12,100	54.6	211.4	9,700
200	80	200	47.2	209.1	14,300	49.7	206.7	11,700	51.7	201.8	9,500
200	80	210	44.3	198.9	13,600	46.7	196.3	11,200	48.7	191.1	9,200
200	80	220	41.2	187.5	13,000	43.6	184.8	10,800	45.5	179.3	9,000
200	80	230	37.9	174.8	12,100	40.3	171.8	10,500			
200	80	240	34.4	160.4	11,100	36.6	157.1	10,200			
200	80	250	30.4	143.7	10,100						
200	80	260	25.9	123.8	9,300						
200	100	53.83	82.0	304.8	13,300						
200	100	60	80.8	303.7	12,900						
200	100	70	78.9	301.6	12,300						
200	100	80	76.9	299.1	11,700	80.1	297.0	10,000			
200	100	90	75.0	296.3	11,200	78.1	294.2	9,500	81.2	290.0	8,100
200	100	100	73.0	293.1	10,700	76.1	291.0	9,100	79.1	286.7	7,800
200	100	110	70.9	289.6	10,200	74.1	287.4	8,700	77.1	283.0	7,400
200	100	120	68.9	285.6	9,700	72.0	283.4	8,300	75.0	279.0	7,100
200	100	130	66.8	281.2	9,300	69.9	278.9	7,900	72.8	274.4	6,900
200	100	140	64.7	276.3	8,800	67.8	274.0	7,600	70.7	269.5	6,600
200	100	150	62.6	271.0	8,400	65.7	268.7	7,300	68.5	264.0	6,300
200	100	160	60.4	265.2	8,000	63.4	262.8	7,000	66.2	258.0	6,100
200	100	170	58.1	258.8	7,700	61.2	256.4	6,700	63.9	251.5	5,900
200	100	180	55.8	251.9	7,300	58.8	249.4	6,400	61.5	244.4	5,700
200	100	190	53.5	244.4	7,000	56.4	241.8	6,200	59.1	236.6	5,500
200	100	200	51.0	236.2	6,700	54.0	233.5	5,900	56.5	228.1	5,300
200	100	210	48.5	227.2	6,400	51.4	224.4	5,700	53.9	218.8	5,200
200	100	220	45.8	217.3	6,200	48.7	214.4	5,500	51.1	208.5	5,100
200	100	230	43.0	206.5	5,900	45.9	203.4	5,400	48.2	197.2	4,900
200	100	240	40.0	194.6	5,700	42.8	191.3	5,200	45.1	184.6	4,800
200	100	250	36.9	181.2	5,500	39.6	177.6	5,100			
200	100	260	33.4	166.1	5,300	36.1	162.2	4,900			
200	100	270	29.6	148.7	5,100						
200	100	280	25.3	128.0	5,000						
220	30	40.87	82.0	256.4	57,000						
220	30	50	79.9	254.8	56,000	81.0	254.0	53,000			
220	30	60	77.6	252.7	55,100	78.7	251.9	52,200	79.8	250.3	47,100
220	30	70	75.2	250.2	54,200	76.4	249.4	51,500	77.4	247.7	44,200
220	30	80	72.9	247.2	53,300	74.0	246.4	50,900	75.0	244.7	41,700
220	30	90	70.5	243.8	49,900	71.6	243.0	50,300	72.6	241.3	39,500
220	30	100	68.0	239.9	42,900	69.1	239.0	43,400	70.1	237.3	37,600
220	30	110	65.5	235.5	37,200	66.6	234.6	37,700	67.6	232.9	36,700
220	30	120	63.0	230.5	33,000	64.1	229.6	33,400	65.0	227.8	33,800
220	30	130	60.4	225.0	29,200	61.5	224.1	29,500	62.4	222.3	29,900
220	30	140	57.8	218.9	26,000	58.8	217.9	26,200	59.7	216.0	26,500



LS-278H - w/ 68" x 80" Tube Boom, w/ 24" x 32" Tube Jib, w/ 135K + LWR Cwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)
220	30	150	55.0	212.1	23,200	56.1	211.1	23,400	56.9	209.2	23,700
220	30	160	52.2	204.6	20,800	53.2	203.5	21,000	54.0	201.5	21,200
220	30	170	49.2	196.2	18,700	50.2	195.1	18,800	51.0	193.0	19,000
220	30	180	46.1	186.9	16,800	47.1	185.8	16,900	47.9	183.5	17,100
220	30	190	42.8	176.5	15,200	43.8	175.3	15,300			
220	30	200	39.3	164.8	13,700	40.3	163.5	13,700			
220	30	210	35.5	151.4	12,300	36.4	150.0	12,400			
220	30	220	31.3	135.9	11,100						
220	30	230	26.6	117.4	10,000						
220	40	43.12	82.0	266.1	47,100						
220	40	50	80.5	265.0	46,500	81.9	263.9	43,700			
220	40	60	78.2	263.0	45,600	79.7	261.9	42,900	81.1	259.8	36,600
220	40	70	76.0	260.5	44,700	77.4	259.5	42,200	78.8	257.4	36,600
220	40	80	73.7	257.7	43,900	75.2	256.6	41,600	76.5	254.5	35,600
220	40	90	71.4	254.4	43,200	72.9	253.3	41,000	74.2	251.2	33,500
220	40	100	69.1	250.7	42,500	70.5	249.6	38,600	71.8	247.4	31,800
220	40	110	66.7	246.5	37,600	68.1	245.3	36,200	69.4	243.1	30,200
220	40	120	64.3	241.7	33,400	65.7	240.6	33,900	67.0	238.3	28,800
220	40	130	61.8	236.5	29,500	63.2	235.3	30,000	64.4	233.0	27,600
220	40	140	59.3	230.7	26,300	60.7	229.5	26,700	61.9	227.1	26,500
220	40	150	56.7	224.2	23,500	58.1	223.0	23,900	59.2	220.5	24,200
220	40	160	54.0	217.1	21,100	55.4	215.9	21,400	56.5	213.3	21,700
220	40	170	51.3	209.3	19,000	52.6	208.0	19,300	53.7	205.3	19,500
220	40	180	48.4	200.6	17,100	49.7	199.2	17,300	50.7	196.4	17,600
220	40	190	45.3	191.0	15,500	46.6	189.5	15,700	47.6	186.6	15,900
220	40	200	42.1	180.3	14,000	43.4	178.7	14,100			
220	40	210	38.7	168.2	12,700	39.9	166.5	12,800			
220	40	220	35.0	154.5	11,500	36.2	152.6	11,500			
220	40	230	30.9	138.6	10,400						
220	40	240	26.2	119.6	9,400						
220	60	47.62	82.0	285.6	31,600						
220	60	50	81.5	285.2	31,500						
220	60	60	79.4	283.4	30,900	81.5	281.9	29,100			
220	60	70	77.4	281.1	30,400	79.4	279.6	28,600	81.3	276.7	24,300
220	60	80	75.3	278.5	29,800	77.3	277.0	28,100	79.2	274.0	22,800
220	60	90	73.1	275.5	29,300	75.2	273.9	27,700	77.0	270.9	21,500
220	60	100	71.0	272.0	28,900	73.0	270.5	27,300	74.8	267.4	20,400
220	60	110	68.8	268.1	28,400	70.8	266.6	26,500	72.6	263.5	19,400
220	60	120	66.6	263.8	28,000	68.6	262.2	24,900	70.4	259.1	18,500
220	60	130	64.4	259.0	27,600	66.3	257.4	23,500	68.1	254.2	17,700
220	60	140	62.1	253.8	26,900	64.0	252.1	22,200	65.7	248.8	16,900
220	60	150	59.7	247.9	24,100	61.6	246.3	21,100	63.3	242.9	16,300
220	60	160	57.3	241.6	21,700	59.2	239.8	20,100	60.9	236.4	15,700
220	60	170	54.8	234.6	19,500	56.7	232.8	19,200	58.3	229.2	15,200
220	60	180	52.3	226.9	17,700	54.1	225.0	18,100	55.7	221.4	14,700
220	60	190	49.6	218.5	16,000	51.5	216.5	16,400	53.0	212.7	14,300
220	60	200	46.8	209.2	14,500	48.7	207.2	14,800	50.1	203.2	13,900
220	60	210	43.9	198.9	13,200	45.7	196.8	13,400	47.2	192.6	13,500
220	60	220	40.9	187.6	12,000	42.6	185.3	12,200			
220	60	230	37.6	174.8	10,900	39.3	172.4	11,100			
220	60	240	34.0	160.4	9,900	35.7	157.8	10,000			
220	60	250	30.1	143.8	9,000						
220	60	260	25.6	123.9	8,100						
220	80	52.12	82.0	305.1	22,100						
220	80	60	80.5	303.7	22,000						
220	80	70	78.5	301.6	21,800	81.1	299.8	21,300			
220	80	80	76.6	299.2	21,600	79.1	297.3	20,900	81.5	293.6	16,500
220	80	90	74.6	296.4	21,500	77.2	294.5	20,600	79.5	290.8	15,600
220	80	100	72.6	293.2	21,400	75.1	291.3	20,200	77.5	287.5	14,700
220	80	110	70.6	289.6	21,200	73.1	287.7	19,400	75.4	283.9	14,000
220	80	120	68.6	285.6	20,800	71.1	283.7	18,200	73.4	279.8	13,300
220	80	130	66.5	281.2	20,500	69.0	279.2	17,100	71.2	275.3	12,700
220	80	140	64.4	276.3	20,100	66.9	274.3	16,200	69.1	270.3	12,100
220	80	150	62.3	271.0	19,600	64.7	269.0	15,300	66.9	264.9	11,600
220	80	160	60.1	265.2	19,200	62.5	263.1	14,600	64.6	258.9	11,200



LS-278H - w/ 68" x 80" Tube Boom, w/ 24" x 32" Tube Jib, w/ 135K + LWR Cwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)
220	80	170	57.8	258.9	18,000	60.2	256.7	13,900	62.3	252.4	10,800
220	80	180	55.5	252.0	17,000	57.9	249.8	13,300	60.0	245.3	10,400
220	80	190	53.1	244.4	16,100	55.5	242.1	12,700	57.5	237.6	10,100
220	80	200	50.7	236.2	15,000	53.0	233.8	12,200	55.0	229.1	9,800
220	80	210	48.1	227.2	13,600	50.4	224.8	11,700	52.4	219.8	9,500
220	80	220	45.5	217.4	12,400	47.7	214.8	11,300	49.6	209.7	9,200
220	80	230	42.7	206.6	11,300	44.9	203.9	11,000	46.7	198.4	9,000
220	80	240	39.7	194.6	10,300	41.9	191.7	10,600			
220	80	250	36.6	181.2	9,400	38.7	178.1	9,600			
220	80	260	33.1	166.1	8,500	35.2	162.7	8,700			
220	80	270	29.3	148.8	7,700						
220	100	56.62	82.0	324.6	13,100						
220	100	60	81.4	324.0	12,900						
220	100	70	79.6	322.1	12,400						
220	100	80	77.8	319.8	11,900	80.7	317.6	10,000			
220	100	90	75.9	317.1	11,300	78.9	315.0	9,600	81.7	310.6	8,200
220	100	100	74.1	314.2	10,800	77.0	312.0	9,200	79.8	307.6	7,800
220	100	110	72.2	310.8	10,400	75.1	308.6	8,800	77.9	304.2	7,500
220	100	120	70.3	307.1	9,900	73.2	304.9	8,400	76.0	300.4	7,200
220	100	130	68.4	303.0	9,500	71.3	300.8	8,100	74.0	296.2	7,000
220	100	140	66.4	298.6	9,100	69.3	296.2	7,800	72.0	291.6	6,700
220	100	150	64.4	293.7	8,700	67.3	291.3	7,500	70.0	286.6	6,500
220	100	160	62.4	288.3	8,300	65.3	285.9	7,200	67.9	281.1	6,200
220	100	170	60.4	282.5	8,000	63.2	280.0	6,900	65.8	275.1	6,000
220	100	180	58.3	276.2	7,600	61.1	273.7	6,600	63.6	268.7	5,800
220	100	190	56.1	269.4	7,300	58.9	266.8	6,400	61.4	261.6	5,600
220	100	200	53.9	261.9	7,000	56.7	259.3	6,100	59.1	254.0	5,500
220	100	210	51.6	253.9	6,700	54.4	251.2	5,900	56.8	245.7	5,300
220	100	220	49.2	245.2	6,500	52.0	242.3	5,700	54.3	236.6	5,200
220	100	230	46.8	235.7	6,200	49.5	232.7	5,500	51.8	226.8	5,000
220	100	240	44.2	225.3	6,000	46.9	222.2	5,400	49.1	215.9	4,900
220	100	250	41.5	213.9	5,800	44.2	210.6	5,200	46.3	204.0	4,800
220	100	260	38.7	201.4	5,600	41.3	197.9	5,100			
220	100	270	35.6	187.4	5,400	38.2	183.6	5,000			
220	100	280	32.3	171.7	5,200						
220	100	290	28.6	153.6	5,100						
240	30	43.65	82.0	276.2	55,100						
240	30	50	80.6	275.2	54,500	81.7	274.3	51,800			
240	30	60	78.5	273.2	53,600	79.6	272.4	51,000	80.5	270.8	48,100
240	30	70	76.3	270.9	52,700	77.4	270.1	50,300	78.4	268.4	45,200
240	30	80	74.2	268.2	51,900	75.2	267.3	49,600	76.2	265.6	42,800
240	30	90	72.0	265.0	49,200	73.0	264.2	49,000	73.9	262.5	40,600
240	30	100	69.7	261.4	42,100	70.7	260.6	42,700	71.7	258.8	38,700
240	30	110	67.5	257.4	36,500	68.5	256.5	37,000	69.4	254.8	37,000
240	30	120	65.1	252.9	32,300	66.2	252.0	32,700	67.0	250.2	33,200
240	30	130	62.8	247.9	28,400	63.8	247.0	28,800	64.7	245.2	29,200
240	30	140	60.4	242.3	25,200	61.4	241.4	25,500	62.2	239.6	25,900
240	30	150	57.9	236.2	22,400	58.9	235.3	22,700	59.7	233.4	23,000
240	30	160	55.4	229.5	20,000	56.4	228.5	20,200	57.2	226.6	20,500
240	30	170	52.8	222.1	17,900	53.7	221.1	18,100	54.5	219.1	18,300
240	30	180	50.1	214.0	16,000	51.0	212.9	16,200	51.8	210.8	16,400
240	30	190	47.2	205.0	14,400	48.2	203.9	14,500	48.9	201.7	14,700
240	30	200	44.3	195.1	12,900	45.2	193.9	13,000	45.9	191.6	13,200
240	30	210	41.1	184.0	11,600	42.0	182.8	11,600			
240	30	220	37.8	171.6	10,400	38.6	170.3	10,400			
240	30	230	34.1	157.6	9,300						
240	30	240	30.1	141.3	8,300						
240	30	250	25.5	121.9	7,300						
240	40	45.9	82.0	285.9	45,800						
240	40	50	81.2	285.3	45,400						
240	40	60	79.1	283.4	44,600	80.5	282.3	42,000	81.7	280.2	36,000
240	40	70	77.0	281.2	43,800	78.4	280.1	41,400	79.6	278.0	36,000
240	40	80	74.9	278.5	43,000	76.3	277.5	40,700	77.5	275.3	36,000
240	40	90	72.8	275.5	42,300	74.1	274.4	40,200	75.4	272.2	34,500
240	40	100	70.6	272.1	41,700	72.0	271.0	39,600	73.2	268.8	32,700



LS-278H - w/ 68" x 80" Tube Boom, w/ 24" x 32" Tube Jib, w/ 135K + LWR Cwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)
240	40	110	68.5	268.2	36,800	69.8	267.1	37,500	71.0	264.8	31,100
240	40	120	66.3	263.9	32,600	67.6	262.7	33,300	68.7	260.5	29,700
240	40	130	64.0	259.1	28,800	65.3	257.9	29,300	66.5	255.6	28,500
240	40	140	61.7	253.8	25,500	63.0	252.6	26,000	64.1	250.3	26,500
240	40	150	59.4	248.0	22,700	60.6	246.8	23,200	61.7	244.4	23,600
240	40	160	57.0	241.6	20,300	58.2	240.4	20,700	59.3	237.9	21,100
240	40	170	54.5	234.6	18,200	55.7	233.3	18,500	56.8	230.8	18,900
240	40	180	51.9	226.9	16,300	53.2	225.6	16,600	54.2	222.9	16,900
240	40	190	49.3	218.5	14,700	50.5	217.1	14,900	51.5	214.4	15,200
240	40	200	46.5	209.2	13,200	47.7	207.8	13,400	48.6	204.9	13,600
240	40	210	43.6	199.0	11,900	44.8	197.5	12,000	45.7	194.4	12,200
240	40	220	40.5	187.7	10,700	41.7	186.0	10,800			
240	40	230	37.2	174.9	9,600	38.4	173.2	9,700			
240	40	240	33.7	160.5	8,600						
240	40	250	29.7	143.9	7,600						
240	40	260	25.2	124.0	6,800						
240	60	50.4	82.0	305.4	30,900						
240	60	60	80.2	303.7	30,400						
240	60	70	78.2	301.7	29,900	80.1	300.2	28,200	81.9	297.2	24,700
240	60	80	76.3	299.2	29,400	78.2	297.7	27,800	79.9	294.7	23,300
240	60	90	74.3	296.4	29,000	76.2	294.9	27,400	77.9	291.8	22,000
240	60	100	72.3	293.2	28,500	74.2	291.7	27,000	75.9	288.6	20,900
240	60	110	70.3	289.6	28,100	72.2	288.1	26,600	73.9	285.0	19,900
240	60	120	68.3	285.6	27,700	70.1	284.1	25,900	71.8	280.9	19,000
240	60	130	66.2	281.2	27,300	68.0	279.6	24,500	69.7	276.4	18,200
240	60	140	64.1	276.4	26,100	65.9	274.8	23,200	67.5	271.5	17,500
240	60	150	61.9	271.1	23,300	63.7	269.4	22,000	65.3	266.1	16,800
240	60	160	59.7	265.3	20,900	61.5	263.6	21,000	63.1	260.2	16,200
240	60	170	57.5	258.9	18,800	59.3	257.2	19,300	60.8	253.7	15,600
240	60	180	55.2	252.0	16,900	56.9	250.2	17,400	58.5	246.6	15,200
240	60	190	52.8	244.5	15,200	54.6	242.6	15,600	56.0	238.9	14,700
240	60	200	50.4	236.3	13,700	52.1	234.3	14,100	53.5	230.5	14,300
240	60	210	47.8	227.3	12,400	49.5	225.3	12,700	50.9	221.3	13,100
240	60	220	45.1	217.5	11,200	46.8	215.3	11,500	48.2	211.1	11,800
240	60	230	42.4	206.6	10,100	44.0	204.4	10,300	45.3	200.0	10,600
240	60	240	39.4	194.7	9,100	41.0	192.3	9,300			
240	60	250	36.2	181.3	8,200	37.8	178.8	8,300			
240	60	260	32.8	166.2	7,300						
240	60	270	29.0	148.8	6,500						
240	80	54.9	82.0	324.9	21,600						
240	80	60	81.1	324.0	21,600						
240	80	70	79.3	322.1	21,400	81.7	320.2	21,000			
240	80	80	77.4	319.8	21,200	79.8	317.9	20,700			
240	80	90	75.6	317.2	21,100	78.0	315.3	20,400	80.2	311.5	15,800
240	80	100	73.7	314.2	21,000	76.1	312.3	20,100	78.3	308.5	15,000
240	80	110	71.9	310.9	20,900	74.2	308.9	19,800	76.4	305.1	14,300
240	80	120	70.0	307.2	20,700	72.3	305.2	18,800	74.5	301.3	13,600
240	80	130	68.1	303.1	20,400	70.4	301.1	17,800	72.5	297.1	13,000
240	80	140	66.1	298.6	20,100	68.4	296.6	16,800	70.5	292.6	12,400
240	80	150	64.1	293.7	19,800	66.4	291.6	15,900	68.5	287.5	11,900
240	80	160	62.1	288.3	19,300	64.4	286.3	15,200	66.4	282.1	11,500
240	80	170	60.1	282.5	18,900	62.3	280.4	14,500	64.3	276.1	11,100
240	80	180	58.0	276.2	17,300	60.2	274.0	13,800	62.2	269.7	10,700
240	80	190	55.8	269.4	15,700	58.0	267.1	13,300	60.0	262.7	10,400
240	80	200	53.6	262.0	14,200	55.8	259.7	12,700	57.7	255.1	10,000
240	80	210	51.3	253.9	12,800	53.5	251.6	12,300	55.4	246.8	9,800
240	80	220	48.9	245.2	11,600	51.1	242.7	11,800	52.9	237.8	9,500
240	80	230	46.5	235.7	10,500	48.6	233.1	10,900	50.4	228.0	9,300
240	80	240	43.9	225.3	9,500	46.0	222.6	9,800	47.7	217.2	9,000
240	80	250	41.2	214.0	8,600	43.3	211.1	8,900			
240	80	260	38.4	201.4	7,700	40.4	198.4	8,000			
240	80	270	35.3	187.5	6,900	37.3	184.2	7,200			
240	80	280	32.0	171.7	6,200						
240	80	290	28.3	153.6	5,500						
240	100	59.4	82.0	344.4	13,000						



LS-278H - w/ 68" x 80" Tube Boom, w/ 24" x 32" Tube Jib, w/ 135K + LWR Cwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)
240	100	60	81.9	344.3	13,000						
240	100	70	80.2	342.5	12,400						
240	100	80	78.5	340.3	11,900	81.3	338.1	10,100			
240	100	90	76.8	337.9	11,500	79.6	335.6	9,700			
240	100	100	75.0	335.1	11,000	77.8	332.8	9,300	80.5	328.4	7,900
240	100	110	73.3	331.9	10,500	76.1	329.7	8,900	78.7	325.2	7,600
240	100	120	71.5	328.5	10,100	74.3	326.2	8,600	76.9	321.6	7,300
240	100	130	69.7	324.7	9,700	72.5	322.4	8,200	75.0	317.7	7,000
240	100	140	67.9	320.5	9,300	70.6	318.2	7,900	73.2	313.5	6,800
240	100	150	66.0	315.9	8,900	68.8	313.6	7,600	71.3	308.8	6,500
240	100	160	64.2	311.0	8,600	66.9	308.6	7,300	69.4	303.7	6,300
240	100	170	62.3	305.6	8,200	65.0	303.2	7,100	67.4	298.2	6,100
240	100	180	60.3	299.8	7,900	63.0	297.3	6,800	65.4	292.3	5,900
240	100	190	58.4	293.5	7,600	61.0	291.0	6,600	63.4	285.8	5,700
240	100	200	56.3	286.8	7,300	59.0	284.1	6,300	61.3	278.9	5,600
240	100	210	54.3	279.5	7,000	56.9	276.8	6,100	59.2	271.3	5,400
240	100	220	52.1	271.6	6,700	54.7	268.8	5,900	57.0	263.2	5,300
240	100	230	49.9	263.1	6,500	52.5	260.2	5,700	54.7	254.4	5,100
240	100	240	47.7	253.8	6,300	50.2	250.8	5,600	52.4	244.8	5,000
240	100	250	45.3	243.8	6,000	47.8	240.7	5,400	49.9	234.5	4,900
240	100	260	42.8	233.0	5,800	45.3	229.7	5,200	47.3	223.1	4,800
240	100	270	40.2	221.1	5,600	42.7	217.6	5,100			
240	100	280	37.5	208.0	5,400	39.9	204.3	5,000			
240	100	290	34.5	193.4	5,300	36.8	189.5	4,900			
240	100	300	31.3	177.1	5,100						
240	100	310	27.7	158.3	4,700						
260	30	46.44	82.0	296.0	53,300						
260	30	50	81.3	295.4	53,000						
260	30	60	79.3	293.6	52,200	80.3	292.8	49,800	81.2	291.2	47,900
260	30	70	77.3	291.5	51,500	78.3	290.6	49,100	79.2	289.0	46,200
260	30	80	75.3	288.9	50,800	76.2	288.1	48,500	77.1	286.4	43,700
260	30	90	73.2	286.0	48,400	74.2	285.2	48,000	75.1	283.5	41,600
260	30	100	71.2	282.7	41,300	72.1	281.9	42,000	73.0	280.1	39,700
260	30	110	69.1	279.0	36,100	70.0	278.1	36,100	70.9	276.4	36,800
260	30	120	67.0	274.9	31,500	67.9	274.0	32,000	68.7	272.2	32,500
260	30	130	64.8	270.3	27,600	65.7	269.4	28,100	66.6	267.6	28,500
260	30	140	62.6	265.2	24,400	63.5	264.3	24,800	64.3	262.5	25,200
260	30	150	60.4	259.7	21,600	61.3	258.7	22,000	62.1	256.9	22,300
260	30	160	58.1	253.6	19,200	59.0	252.6	19,500	59.8	250.7	19,800
260	30	170	55.7	246.9	17,000	56.6	245.9	17,400	57.4	244.0	17,600
260	30	180	53.3	239.7	15,200	54.2	238.6	15,500	54.9	236.6	15,700
260	30	190	50.8	231.7	13,500	51.7	230.7	13,800	52.4	228.5	14,000
260	30	200	48.2	223.0	12,000	49.1	221.9	12,300	49.7	219.7	12,400
260	30	210	45.5	213.5	10,700	46.3	212.3	10,900	47.0	210.0	11,100
260	30	220	42.6	202.9	9,500	43.5	201.7	9,700			
260	30	230	39.6	191.3	8,400	40.4	190.0	8,500			
260	30	240	36.4	178.2	7,400	37.2	176.9	7,500			
260	30	250	32.9	163.5	6,500						
260	30	260	29.0	146.5	5,600						
260	40	48.69	82.0	305.7	44,400						
260	40	50	81.7	305.5	44,300						
260	40	60	79.8	303.8	43,600	81.1	302.7	41,200			
260	40	70	77.9	301.7	42,900	79.2	300.6	40,600	80.3	298.5	36,000
260	40	80	75.9	299.3	42,200	77.2	298.2	40,000	78.4	296.0	35,700
260	40	90	74.0	296.5	41,600	75.2	295.4	39,500	76.4	293.2	35,300
260	40	100	72.0	293.3	41,000	73.2	292.1	39,000	74.4	289.9	33,600
260	40	110	70.0	289.7	36,500	71.2	288.6	36,800	72.3	286.3	32,100
260	40	120	67.9	285.7	31,900	69.1	284.6	32,600	70.3	282.3	30,600
260	40	130	65.9	281.3	28,000	67.1	280.1	28,600	68.2	277.8	29,200
260	40	140	63.7	276.4	24,700	65.0	275.3	25,300	66.0	272.9	25,800
260	40	150	61.6	271.1	21,900	62.8	269.9	22,400	63.8	267.5	22,900
260	40	160	59.4	265.3	19,500	60.6	264.1	20,000	61.6	261.6	20,400
260	40	170	57.2	259.0	17,400	58.3	257.7	17,800	59.3	255.2	18,200
260	40	180	54.9	252.1	15,500	56.0	250.8	15,900	57.0	248.2	16,200
260	40	190	52.5	244.5	13,800	53.6	243.2	14,200	54.6	240.5	14,500
260	40	200	50.0	236.3	12,300	51.2	234.9	12,700	52.1	232.2	12,900



LS-278H - w/ 68" x 80" Tube Boom, w/ 24" x 32" Tube Jib, w/ 135K + LWR Cttw

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)
260	40	210	47.5	227.4	11,000	48.6	225.9	11,300	49.5	223.0	11,500
260	40	220	44.8	217.5	9,800	45.9	216.0	10,000	46.8	213.0	10,200
260	40	230	42.0	206.7	8,700	43.1	205.1	8,900			
260	40	240	39.1	194.8	7,700	40.1	193.1	7,900			
260	40	250	35.9	181.4	6,800	36.9	179.6	6,900			
260	40	260	32.5	166.3	5,900						
260	40	270	28.7	148.9	5,100						
260	60	53.19	82.0	325.2	30,200						
260	60	60	80.8	324.1	29,900						
260	60	70	79.0	322.1	29,500	80.7	320.6	27,800			
260	60	80	77.1	319.8	29,000	78.9	318.3	27,400	80.6	315.3	23,700
260	60	90	75.3	317.2	28,600	77.1	315.7	27,000	78.7	312.6	22,500
260	60	100	73.4	314.2	28,200	75.2	312.7	26,700	76.8	309.6	21,300
260	60	110	71.6	310.9	27,800	73.3	309.3	26,400	74.9	306.2	20,400
260	60	120	69.7	307.2	27,500	71.4	305.6	26,100	73.0	302.5	19,500
260	60	130	67.8	303.1	27,100	69.5	301.5	25,400	71.1	298.3	18,700
260	60	140	65.8	298.6	25,300	67.5	297.0	24,100	69.1	293.7	17,900
260	60	150	63.8	293.7	22,500	65.5	292.1	22,900	67.1	288.8	17,300
260	60	160	61.8	288.4	20,100	63.5	286.7	20,800	65.0	283.3	16,700
260	60	170	59.7	282.6	17,900	61.4	280.9	18,600	62.9	277.4	16,100
260	60	180	57.6	276.3	16,100	59.3	274.5	16,600	60.8	271.0	15,600
260	60	190	55.5	269.4	14,400	57.1	267.6	14,900	58.6	264.0	15,100
260	60	200	53.3	262.0	12,900	54.9	260.2	13,400	56.3	256.4	13,800
260	60	210	51.0	254.0	11,500	52.6	252.1	12,000	54.0	248.2	12,400
260	60	220	48.6	245.3	10,300	50.2	243.3	10,700	51.6	239.3	11,100
260	60	230	46.2	235.8	9,200	47.8	233.7	9,600	49.0	229.5	9,900
260	60	240	43.6	225.4	8,200	45.2	223.2	8,500	46.4	218.8	8,800
260	60	250	40.9	214.0	7,300	42.5	211.7	7,600			
260	60	260	38.1	201.5	6,400	39.6	199.0	6,700			
260	60	270	35.0	187.6	5,600	36.5	184.9	5,900			
260	60	280	31.7	171.8	4,900						
260	60	290	28.0	153.7	4,300						
260	80	57.68	82.0	344.7	21,200						
260	80	60	81.6	344.3	21,200						
260	80	70	79.9	342.5	21,000						
260	80	80	78.2	340.4	20,900	80.4	338.4	20,500			
260	80	90	76.5	337.9	20,800	78.7	336.0	20,200	80.8	332.1	16,100
260	80	100	74.7	335.1	20,600	77.0	333.2	20,000	79.0	329.3	15,300
260	80	110	73.0	332.0	20,500	75.2	330.0	19,700	77.3	326.1	14,500
260	80	120	71.2	328.5	20,400	73.4	326.5	19,400	75.5	322.6	13,900
260	80	130	69.4	324.7	20,300	71.6	322.7	18,400	73.6	318.7	13,300
260	80	140	67.6	320.5	20,100	69.8	318.5	17,400	71.8	314.5	12,700
260	80	150	65.8	316.0	19,800	67.9	313.9	16,500	69.9	309.8	12,200
260	80	160	63.9	311.0	19,500	66.0	308.9	15,700	68.0	304.8	11,800
260	80	170	62.0	305.7	18,400	64.1	303.5	15,000	66.1	299.3	11,400
260	80	180	60.1	299.9	16,500	62.2	297.7	14,400	64.1	293.3	11,000
260	80	190	58.1	293.6	14,800	60.2	291.4	13,800	62.1	286.9	10,600
260	80	200	56.1	286.8	13,300	58.2	284.5	13,300	60.0	280.0	10,300
260	80	210	54.0	279.5	12,000	56.1	277.2	12,600	57.9	272.5	10,000
260	80	220	51.8	271.6	10,800	53.9	269.2	11,300	55.7	264.4	9,800
260	80	230	49.6	263.1	9,700	51.7	260.6	10,200	53.4	255.6	9,500
260	80	240	47.4	253.9	8,600	49.4	251.3	9,100	51.1	246.1	9,300
260	80	250	45.0	243.9	7,700	47.0	241.2	8,100	48.6	235.8	8,500
260	80	260	42.5	233.0	6,900	44.5	230.2	7,300	46.0	224.5	7,600
260	80	270	39.9	221.1	6,100	41.9	218.1	6,400			
260	80	280	37.2	208.0	5,300	39.1	204.9	5,700			
260	80	290	34.2	193.5	4,700	36.0	190.1	4,900			
260	80	300	31.0	177.1	4,000						
260	80	310	27.4	158.4	3,500						
260	100	62.18	82.0	364.2	12,800						
260	100	70	80.7	362.8	12,500						
260	100	80	79.1	360.8	12,000	81.8	358.6	10,100			
260	100	90	77.5	358.5	11,500	80.2	356.2	9,700			
260	100	100	75.9	355.9	11,100	78.5	353.6	9,300	81.0	349.0	7,900
260	100	110	74.2	352.9	10,700	76.9	350.6	9,000	79.3	346.0	7,600



LS-278H - w/ 68" x 80" Tube Boom, w/ 24" x 32" Tube Jib, w/ 135K + LWR Cwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)
260	100	120	72.6	349.7	10,300	75.2	347.4	8,700	77.6	342.7	7,300
260	100	130	70.9	346.1	9,900	73.5	343.8	8,300	75.9	339.1	7,100
260	100	140	69.2	342.2	9,500	71.8	339.8	8,000	74.2	335.1	6,900
260	100	150	67.5	337.9	9,200	70.0	335.5	7,800	72.4	330.7	6,600
260	100	160	65.7	333.3	8,800	68.3	330.9	7,500	70.7	326.0	6,400
260	100	170	63.9	328.3	8,500	66.5	325.8	7,200	68.8	320.9	6,200
260	100	180	62.2	322.9	8,200	64.7	320.4	7,000	67.0	315.4	6,000
260	100	190	60.3	317.1	7,800	62.9	314.6	6,700	65.1	309.4	5,800
260	100	200	58.5	310.9	7,600	61.0	308.3	6,500	63.2	303.0	5,700
260	100	210	56.5	304.2	7,300	59.0	301.5	6,300	61.3	296.1	5,500
260	100	220	54.6	297.0	7,000	57.1	294.2	6,100	59.2	288.7	5,400
260	100	230	52.6	289.2	6,800	55.1	286.4	5,900	57.2	280.7	5,200
260	100	240	50.5	280.9	6,500	53.0	278.0	5,700	55.1	272.1	5,100
260	100	250	48.4	271.9	6,300	50.8	268.9	5,600	52.9	262.8	5,000
260	100	260	46.2	262.2	6,100	48.6	259.1	5,400	50.6	252.8	4,900
260	100	270	43.9	251.7	5,900	46.3	248.5	5,300	48.2	241.9	4,800
260	100	280	41.5	240.4	5,700	43.8	237.0	5,100	45.7	230.0	4,700
260	100	290	39.0	228.0	5,000	41.3	224.4	5,000			
260	100	300	36.3	214.4	4,400	38.6	210.5	4,700			
260	100	310	33.5	199.3	3,800	35.6	195.1	4,100			
260	100	320	30.3	182.3	3,300						
260	100	330	26.9	162.9	2,700						
280	30	49.22	82.0	315.8	51,200						
280	30	50	81.9	315.7	51,100						
280	30	60	80.0	314.0	50,400	80.9	313.2	48,200	81.8	311.5	46,500
280	30	70	78.1	312.0	49,600	79.0	311.1	47,500	79.9	309.5	45,700
280	30	80	76.2	309.6	48,900	77.1	308.8	46,900	78.0	307.1	44,600
280	30	90	74.3	306.9	47,600	75.2	306.0	46,300	76.1	304.4	42,500
280	30	100	72.4	303.8	40,500	73.3	303.0	41,300	74.1	301.3	40,600
280	30	110	70.5	300.4	35,400	71.4	299.5	36,000	72.2	297.8	35,900
280	30	120	68.5	296.5	30,700	69.4	295.7	31,300	70.2	293.9	31,800
280	30	130	66.5	292.3	26,900	67.4	291.4	27,400	68.2	289.6	27,900
280	30	140	64.5	287.6	23,600	65.4	286.7	24,100	66.1	284.9	24,500
280	30	150	62.4	282.6	20,800	63.3	281.6	21,200	64.1	279.8	21,600
280	30	160	60.3	277.0	18,400	61.2	276.0	18,800	61.9	274.2	19,100
280	30	170	58.2	270.9	16,200	59.0	270.0	16,600	59.8	268.0	16,900
280	30	180	56.0	264.3	14,400	56.8	263.3	14,700	57.5	261.4	15,000
280	30	190	53.7	257.2	12,700	54.6	256.1	13,000	55.3	254.1	13,200
280	30	200	51.4	249.4	11,200	52.2	248.3	11,500	52.9	246.2	11,700
280	30	210	49.0	240.9	9,900	49.8	239.8	10,100	50.5	237.6	10,300
280	30	220	46.5	231.7	8,700	47.3	230.5	8,900	47.9	228.3	9,100
280	30	230	43.9	221.6	7,600	44.7	220.4	7,800	45.3	218.0	7,900
280	30	240	41.2	210.5	6,600	41.9	209.2	6,700			
280	30	250	38.3	198.3	5,700	39.0	196.9	5,800			
280	30	260	35.2	184.6	4,800	35.9	183.2	4,900			
280	40	51.47	82.0	325.5	42,900						
280	40	60	80.5	324.1	42,300	81.7	323.1	40,100			
280	40	70	78.7	322.2	41,600	79.8	321.1	39,500	80.9	318.9	35,200
280	40	80	76.8	319.9	41,000	78.0	318.8	38,900	79.1	316.6	34,800
280	40	90	75.0	317.3	40,400	76.2	316.2	38,400	77.2	314.0	34,400
280	40	100	73.1	314.3	39,800	74.3	313.2	37,900	75.4	311.0	34,100
280	40	110	71.3	311.0	35,800	72.4	309.8	35,900	73.5	307.6	32,900
280	40	120	69.4	307.3	31,100	70.5	306.1	31,900	71.6	303.9	31,500
280	40	130	67.4	303.2	27,200	68.6	302.0	27,900	69.6	299.7	28,500
280	40	140	65.5	298.7	24,000	66.6	297.5	24,600	67.6	295.2	25,100
280	40	150	63.5	293.8	21,100	64.6	292.6	21,700	65.6	290.2	22,200
280	40	160	61.5	288.5	18,700	62.6	287.2	19,200	63.6	284.8	19,700
280	40	170	59.4	282.6	16,600	60.6	281.4	17,000	61.5	278.9	17,500
280	40	180	57.3	276.3	14,700	58.4	275.1	15,100	59.4	272.5	15,500
280	40	190	55.2	269.5	13,000	56.3	268.2	13,400	57.2	265.6	13,800
280	40	200	53.0	262.1	11,500	54.1	260.8	11,900	55.0	258.1	12,200
280	40	210	50.7	254.1	10,200	51.8	252.7	10,500	52.6	249.9	10,800
280	40	220	48.3	245.3	9,000	49.4	243.9	9,300	50.2	241.0	9,500
280	40	230	45.9	235.8	7,900	46.9	234.3	8,100	47.7	231.4	8,400
280	40	240	43.3	225.5	6,900	44.3	223.9	7,100	45.1	220.8	7,300
280	40	250	40.6	214.1	6,000	41.6	212.5	6,200			



LS-278H - w/ 68" x 80" Tube Boom, w/ 24" x 32" Tube Jib, w/ 135K + LWR Cttwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)
280	40	260	37.8	201.6	5,100	38.8	199.8	5,300			
280	40	270	34.7	187.6	4,300	35.7	185.7	4,500			
280	40	280	31.4	171.9	3,600						
280	60	55.97	82.0	345.0	29,500						
280	60	60	81.3	344.4	29,300						
280	60	70	79.6	342.5	28,900	81.3	341.0	27,300			
280	60	80	77.9	340.4	28,500	79.6	338.9	26,900	81.2	335.8	24,100
280	60	90	76.2	337.9	28,100	77.8	336.4	26,600	79.4	333.3	22,800
280	60	100	74.4	335.1	27,700	76.1	333.6	26,200	77.6	330.5	21,800
280	60	110	72.7	332.0	27,300	74.3	330.5	25,900	75.9	327.3	20,800
280	60	120	70.9	328.6	27,000	72.6	327.0	25,600	74.1	323.8	19,900
280	60	130	69.1	324.8	26,600	70.8	323.1	25,300	72.2	319.9	19,100
280	60	140	67.3	320.6	24,600	68.9	318.9	25,000	70.4	315.7	18,400
280	60	150	65.5	316.0	21,700	67.1	314.4	22,600	68.5	311.1	17,700
280	60	160	63.6	311.1	19,300	65.2	309.4	20,100	66.6	306.0	17,100
280	60	170	61.7	305.7	17,200	63.3	304.0	17,900	64.7	300.6	16,500
280	60	180	59.8	299.9	15,300	61.3	298.2	15,900	62.7	294.7	16,000
280	60	190	57.8	293.6	13,600	59.4	291.8	14,200	60.7	288.3	14,700
280	60	200	55.8	286.9	12,100	57.3	285.0	12,600	58.7	281.4	13,100
280	60	210	53.7	279.6	10,700	55.2	277.7	11,200	56.5	273.9	11,700
280	60	220	51.6	271.7	9,500	53.1	269.7	10,000	54.4	265.9	10,400
280	60	230	49.4	263.2	8,400	50.9	261.2	8,800	52.1	257.1	9,200
280	60	240	47.1	253.9	7,400	48.6	251.9	7,800	49.8	247.7	8,100
280	60	250	44.7	244.0	6,500	46.2	241.8	6,800	47.4	237.4	7,100
280	60	260	42.2	233.1	5,600	43.7	230.8	5,900			
280	60	270	39.6	221.2	4,800	41.1	218.8	5,100			
280	60	280	36.9	208.1	4,100	38.3	205.5	4,400			
280	60	290	33.9	193.6	3,400	35.3	190.8	3,700			
280	60	300	30.7	177.2	2,800						
280	60	310	27.2	158.5	2,200						
280	80	60.47	82.0	364.5	20,700						
280	80	70	80.5	362.9	20,600						
280	80	80	78.9	360.8	20,500	81.0	358.9	20,100			
280	80	90	77.2	358.5	20,300	79.3	356.6	20,000	81.3	352.7	16,300
280	80	100	75.6	355.9	20,200	77.7	353.9	19,700	79.7	350.0	15,500
280	80	110	73.9	353.0	20,100	76.0	351.0	19,500	78.0	347.1	14,800
280	80	120	72.3	349.7	20,000	74.4	347.7	19,300	76.3	343.7	14,100
280	80	130	70.6	346.2	19,900	72.7	344.1	19,000	74.6	340.1	13,500
280	80	140	68.9	342.2	19,800	71.0	340.2	18,000	72.9	336.1	13,000
280	80	150	67.2	338.0	19,600	69.2	335.9	17,100	71.1	331.8	12,500
280	80	160	65.4	333.4	19,400	67.5	331.3	16,300	69.3	327.1	12,100
280	80	170	63.7	328.4	17,700	65.7	326.2	15,600	67.5	322.0	11,600
280	80	180	61.9	323.0	15,800	63.9	320.8	14,900	65.7	316.5	11,200
280	80	190	60.0	317.2	14,100	62.1	315.0	14,300	63.8	310.6	10,900
280	80	200	58.2	310.9	12,600	60.2	308.7	13,300	61.9	304.2	10,600
280	80	210	56.3	304.2	11,200	58.3	301.9	11,900	60.0	297.3	10,300
280	80	220	54.3	297.0	10,000	56.3	294.6	10,600	58.0	289.9	10,000
280	80	230	52.3	289.3	8,900	54.3	286.8	9,400	55.9	282.0	9,700
280	80	240	50.3	280.9	7,800	52.2	278.4	8,400	53.8	273.4	8,800
280	80	250	48.1	271.9	6,900	50.1	269.4	7,400	51.6	264.2	7,800
280	80	260	45.9	262.3	6,100	47.8	259.6	6,500	49.4	254.2	6,900
280	80	270	43.6	251.8	5,300	45.5	249.0	5,700	47.0	243.4	6,000
280	80	280	41.3	240.4	4,500	43.1	237.5	4,900			
280	80	290	38.7	228.0	3,900	40.5	224.9	4,200			
280	80	300	36.1	214.4	3,200	37.8	211.1	3,500			
280	80	310	33.2	199.3	2,600						
280	80	320	30.1	182.4	2,100						
280	100	64.97	82.0	384.0	12,700						
280	100	70	81.2	383.2	12,500						
280	100	80	79.7	381.2	12,000						
280	100	90	78.2	379.0	11,600	80.7	376.7	9,700			
280	100	100	76.6	376.6	11,200	79.1	374.2	9,400	81.5	369.6	7,900
280	100	110	75.1	373.8	10,800	77.6	371.5	9,100	79.9	366.8	7,600
280	100	120	73.5	370.7	10,400	76.0	368.4	8,700	78.3	363.7	7,400
280	100	130	71.9	367.4	10,000	74.4	365.0	8,400	76.7	360.3	7,100



LS-278H - w/ 68" x 80" Tube Boom, w/ 24" x 32" Tube Jib, w/ 135K + LWR Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)
280	100	140	70.3	363.7	9,700	72.8	361.3	8,100	75.1	356.5	6,900
280	100	150	68.7	359.7	9,300	71.2	357.3	7,900	73.4	352.4	6,700
280	100	160	67.1	355.4	9,000	69.5	352.9	7,600	71.8	348.0	6,500
280	100	170	65.4	350.7	8,700	67.9	348.2	7,300	70.1	343.2	6,300
280	100	180	63.7	345.7	8,400	66.2	343.1	7,100	68.4	338.1	6,100
280	100	190	62.0	340.3	8,100	64.4	337.7	6,900	66.6	332.6	5,900
280	100	200	60.3	334.4	7,800	62.7	331.8	6,600	64.8	326.6	5,800
280	100	210	58.5	328.2	7,500	60.9	325.6	6,400	63.0	320.2	5,600
280	100	220	56.7	321.6	7,200	59.1	318.8	6,200	61.2	313.4	5,500
280	100	230	54.9	314.4	7,000	57.2	311.6	6,000	59.3	306.1	5,300
280	100	240	53.0	306.8	6,800	55.3	303.9	5,900	57.4	298.2	5,200
280	100	250	51.1	298.6	6,500	53.4	295.7	5,700	55.4	289.8	5,100
280	100	260	49.1	289.9	6,300	51.4	286.8	5,500	53.3	280.7	5,000
280	100	270	47.0	280.5	5,600	49.3	277.3	5,400	51.2	271.0	4,900
280	100	280	44.9	270.3	4,900	47.1	267.1	5,300	49.0	260.5	4,800
280	100	290	42.7	259.4	4,200	44.9	256.0	4,700	46.6	249.1	4,700
280	100	300	40.3	247.6	3,600	42.5	244.0	4,000			
280	100	310	37.9	234.7	3,000	40.0	230.9	3,400			
280	100	320	35.3	220.6	2,500	37.4	216.5	2,800			
300	30	52	82.0	335.6	47,800						
300	30	60	80.6	334.3	47,000	81.5	333.5	45,100			
300	30	70	78.8	332.4	46,000	79.7	331.6	44,000	80.5	329.9	40,600
300	30	80	77.1	330.2	44,900	77.9	329.4	42,900	78.7	327.7	39,500
300	30	90	75.3	327.7	42,800	76.2	326.8	41,800	76.9	325.1	38,600
300	30	100	73.5	324.8	39,600	74.4	323.9	39,000	75.1	322.2	37,600
300	30	110	71.7	321.6	34,600	72.5	320.7	35,300	73.3	319.0	34,800
300	30	120	69.9	318.0	30,000	70.7	317.1	30,600	71.5	315.4	31,200
300	30	130	68.0	314.1	26,100	68.8	313.2	26,700	69.6	311.4	27,200
300	30	140	66.1	309.7	22,800	67.0	308.8	23,300	67.7	307.0	23,800
300	30	150	64.2	305.0	20,000	65.0	304.1	20,500	65.8	302.3	20,900
300	30	160	62.3	299.9	17,600	63.1	298.9	18,000	63.8	297.1	18,400
300	30	170	60.3	294.3	15,500	61.1	293.3	15,800	61.8	291.5	16,200
300	30	180	58.3	288.3	13,600	59.1	287.3	13,900	59.8	285.4	14,200
300	30	190	56.2	281.7	11,900	57.0	280.7	12,200	57.7	278.7	12,500
300	30	200	54.1	274.7	10,400	54.9	273.6	10,700	55.6	271.6	11,000
300	30	210	52.0	267.0	9,100	52.7	265.9	9,300	53.4	263.9	9,600
300	30	220	49.7	258.7	7,900	50.5	257.6	8,100	51.1	255.5	8,300
300	30	230	47.4	249.8	6,800	48.2	248.6	7,000	48.8	246.4	7,200
300	30	240	45.0	240.0	5,800	45.7	238.8	6,000	46.3	236.5	6,100
300	30	250				43.2	228.2	5,000			
300	40	54.25	82.0	345.4	41,200						
300	40	60	81.0	344.4	40,800						
300	40	70	79.3	342.6	40,100	80.4	341.5	38,200	81.5	339.3	33,200
300	40	80	77.6	340.5	39,500	78.7	339.4	37,600	79.8	337.2	32,600
300	40	90	75.9	338.0	38,800	77.0	336.9	37,100	78.0	334.7	32,000
300	40	100	74.1	335.2	38,100	75.3	334.1	34,200	76.3	331.9	31,400
300	40	110	72.4	332.1	35,000	73.5	331.0	33,800	74.5	328.7	30,800
300	40	120	70.6	328.6	30,400	71.7	327.5	31,200	72.7	325.2	30,200
300	40	130	68.8	324.8	26,500	69.9	323.7	27,200	70.9	321.4	27,900
300	40	140	67.0	320.6	23,200	68.1	319.5	23,900	69.1	317.2	24,500
300	40	150	65.2	316.1	20,400	66.3	314.9	21,000	67.2	312.6	21,500
300	40	160	63.3	311.1	17,900	64.4	309.9	18,500	65.3	307.5	19,000
300	40	170	61.4	305.8	15,800	62.5	304.5	16,300	63.4	302.1	16,700
300	40	180	59.5	300.0	13,900	60.5	298.7	14,400	61.4	296.2	14,800
300	40	190	57.5	293.7	12,200	58.5	292.4	12,700	59.4	289.9	13,000
300	40	200	55.5	286.9	10,700	56.5	285.6	11,100	57.4	283.0	11,500
300	40	210	53.4	279.6	9,400	54.4	278.3	9,800	55.3	275.6	10,100
300	40	220	51.3	271.7	8,200	52.3	270.4	8,500	53.1	267.6	8,800
300	40	230	49.1	263.2	7,100	50.1	261.8	7,400	50.9	259.0	7,600
300	40	240	46.8	254.0	6,100	47.8	252.5	6,300	48.6	249.6	6,600
300	40	250	44.4	244.0	5,100	45.4	242.5	5,400	46.1	239.4	5,600
300	40	260				42.9	231.5	4,500			
300	60	58.75	82.0	364.8	28,600						
300	60	60	81.8	364.6	28,600						
300	60	70	80.2	362.9	28,200	81.8	361.4	26,700			



LS-278H - w/ 68" x 80" Tube Boom, w/ 24" x 32" Tube Jib, w/ 135K + LWR Cwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)
300	60	80	78.6	360.9	27,800	80.2	359.3	26,300	81.7	356.3	23,600
300	60	90	77.0	358.6	27,400	78.5	357.0	26,000	80.0	353.9	23,200
300	60	100	75.3	355.9	27,000	76.9	354.4	25,600	78.4	351.2	22,100
300	60	110	73.7	353.0	26,700	75.2	351.4	25,300	76.7	348.3	21,200
300	60	120	72.0	349.8	26,300	73.6	348.2	25,000	75.0	345.0	20,300
300	60	130	70.3	346.2	26,000	71.9	344.6	24,700	73.3	341.4	19,500
300	60	140	68.6	342.3	23,800	70.2	340.7	24,400	71.6	337.4	18,800
300	60	150	66.9	338.0	21,000	68.4	336.4	21,900	69.8	333.1	18,100
300	60	160	65.2	333.4	18,500	66.7	331.7	19,400	68.1	328.4	17,500
300	60	170	63.4	328.4	16,400	64.9	326.7	17,100	66.3	323.3	16,900
300	60	180	61.6	323.0	14,500	63.1	321.3	15,200	64.4	317.8	15,800
300	60	190	59.8	317.2	12,800	61.3	315.5	13,400	62.6	311.9	14,000
300	60	200	57.9	311.0	11,300	59.4	309.2	11,900	60.7	305.6	12,400
300	60	210	56.0	304.3	9,900	57.5	302.4	10,500	58.7	298.7	11,000
300	60	220	54.1	297.1	8,700	55.5	295.2	9,200	56.8	291.4	9,700
300	60	230	52.1	289.3	7,600	53.5	287.4	8,100	54.7	283.5	8,500
300	60	240	50.0	281.0	6,600	51.4	279.0	7,000	52.6	275.0	7,400
300	60	250	47.9	272.0	5,700	49.3	269.9	6,100	50.4	265.8	6,400
300	60	260	45.7	262.3	4,800	47.1	260.2	5,200	48.2	255.9	5,500
300	60	270	43.4	251.9	4,000	44.8	249.6	4,400	45.8	245.1	4,600
300	60	280	41.0	240.5	3,300	42.3	238.1	3,600			
300	60	290				39.8	225.6	2,900			
300	80	63.25	82.0	384.3	20,200						
300	80	70	81.0	383.2	20,100						
300	80	80	79.4	381.3	20,000	81.5	379.3	19,600			
300	80	90	77.9	379.1	19,800	79.9	377.1	19,500	81.8	373.2	16,200
300	80	100	76.4	376.6	19,700	78.4	374.6	19,300	80.2	370.7	15,700
300	80	110	74.8	373.8	19,600	76.8	371.8	19,200	78.7	367.9	15,000
300	80	120	73.2	370.8	19,500	75.2	368.8	19,000	77.1	364.8	14,400
300	80	130	71.7	367.4	19,300	73.6	365.4	18,700	75.5	361.3	13,800
300	80	140	70.1	363.7	19,200	72.0	361.7	18,500	73.8	357.6	13,300
300	80	150	68.5	359.7	19,100	70.4	357.7	17,600	72.2	353.5	12,800
300	80	160	66.8	355.4	19,000	68.8	353.3	16,800	70.5	349.1	12,300
300	80	170	65.2	350.7	16,900	67.1	348.6	16,100	68.8	344.4	11,900
300	80	180	63.5	345.7	15,000	65.4	343.5	15,400	67.1	339.2	11,500
300	80	190	61.8	340.3	13,300	63.7	338.1	14,100	65.4	333.7	11,200
300	80	200	60.0	334.5	11,800	61.9	332.3	12,600	63.6	327.8	10,800
300	80	210	58.3	328.3	10,400	60.2	326.0	11,200	61.8	321.4	10,500
300	80	220	56.5	321.6	9,200	58.4	319.3	9,900	60.0	314.6	10,200
300	80	230	54.6	314.5	8,100	56.5	312.1	8,700	58.1	307.3	9,300
300	80	240	52.8	306.9	7,000	54.6	304.4	7,600	56.2	299.5	8,100
300	80	250	50.8	298.7	6,100	52.6	296.2	6,700	54.2	291.1	7,100
300	80	260	48.8	289.9	5,300	50.6	287.3	5,800	52.1	282.1	6,200
300	80	270	46.8	280.5	4,500	48.6	277.8	4,900	50.0	272.4	5,300
300	80	280	44.6	270.4	3,700	46.4	267.6	4,200	47.8	262.0	4,500
300	80	290	42.4	259.5	3,100	44.2	256.5	3,400	45.5	250.7	3,800
300	80	300	40.1	247.6	2,400	41.8	244.6	2,800			
300	100	67.75	82.0	403.8	12,500						
300	100	70	81.7	403.4	12,400						
300	100	80	80.2	401.6	12,000						
300	100	90	78.8	399.5	11,600	81.2	397.2	9,800			
300	100	100	77.3	397.2	11,200	79.7	394.9	9,400			
300	100	110	75.8	394.6	10,900	78.2	392.2	9,100	80.5	387.5	7,700
300	100	120	74.4	391.7	10,500	76.7	389.3	8,800	78.9	384.6	7,400
300	100	130	72.9	388.5	10,100	75.2	386.1	8,500	77.4	381.3	7,200
300	100	140	71.3	385.0	9,800	73.7	382.6	8,200	75.9	377.8	7,000
300	100	150	69.8	381.3	9,500	72.2	378.8	8,000	74.3	373.9	6,700
300	100	160	68.3	377.2	9,100	70.6	374.7	7,700	72.8	369.8	6,500
300	100	170	66.7	372.8	8,800	69.1	370.3	7,400	71.2	365.3	6,400
300	100	180	65.2	368.1	8,500	67.5	365.5	7,200	69.6	360.5	6,200
300	100	190	63.6	363.0	8,200	65.9	360.4	7,000	67.9	355.3	6,000
300	100	200	61.9	357.6	8,000	64.2	355.0	6,800	66.3	349.7	5,800
300	100	210	60.3	351.8	7,700	62.6	349.1	6,600	64.6	343.8	5,700
300	100	220	58.6	345.6	7,400	60.9	342.9	6,400	62.9	337.4	5,500
300	100	230	56.9	339.0	7,200	59.1	336.2	6,200	61.1	330.7	5,400
300	100	240	55.2	331.9	7,000	57.4	329.1	6,000	59.3	323.4	5,300



LS-278H - w/ 68" x 80" Tube Boom, w/ 24" x 32" Tube Jib, w/ 135K + LWR Cwt											
Refer to the Tubular Jib Notes for Open Throat Boom in this Crane Rating Manual before operating the machine.											
Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)	Boom Angle (deg)	Jib Pt Height (ft)	Jib Capacity 135K + LWR (lbs)
300	100	250	53.4	324.4	6,500	55.6	321.5	5,800	57.5	315.7	5,200
300	100	260	51.5	316.3	5,600	53.7	313.4	5,700	55.6	307.4	5,000
300	100	270	49.7	307.8	4,800	51.8	304.7	5,400	53.7	298.6	5,000
300	100	280	47.7	298.6	4,100	49.9	295.4	4,700	51.7	289.1	4,900
300	100	290	45.7	288.8	3,400	47.9	285.5	3,900	49.6	278.9	4,400
300	100	300	43.7	278.2	2,800	45.8	274.8	3,300	47.5	268.0	3,700
300	100	310	41.5	266.8	2,200	43.6	263.3	2,600	45.2	256.2	3,000



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