

238⁵ HYLAB

248⁵ HYLAB

Lattice Boom Crawler Crane
150-ton (136.08 mt)

Lattice Boom Crawler Crane
200-ton (181.44 mt)

- Quiet & powerful Tier III engine
- All hydraulic power with fine inching control
- Dedicated remote engine/hydraulic cooling
- Compact travel drives
- Completely sealed lower
- Self-assembly and disassembly (no helper crane required)
- Counterweight biscuit design provides ease of transport and variety of configurations
- Counterweight removal system sits counterweight on the ground
- Transports with base section and 10 ft insert

Link-Belt
CRANES

238 **HYLAB5**

248 **HYLAB5**

- Big capacities
- Freefall - standard
- Awesome operator control and comfort
- Easy to transport - base section stays on for transport!

Remote-control operated hydraulic counterweight removal cylinders

Counterweight "biscuit" design allows for various configuration options and easy transport

Sealed (oil-filled) track rollers, and drive planetaries and compact hydrostatic drives add up to outstanding reliability and maintenance-free operation.

54% more travel torque than the LS-238



Sealed boom hoist bearings in mast and bail

Spring-loaded cushioned backstops

Optional 10 ft self-assembly section

Non-slip safety strips and full-length catwalks provide sure-footed access to the crane upper

Carbody jacks with live hydraulics - standard



Great engine and pump accessibility

238
HYLAB 5

Link-Belt

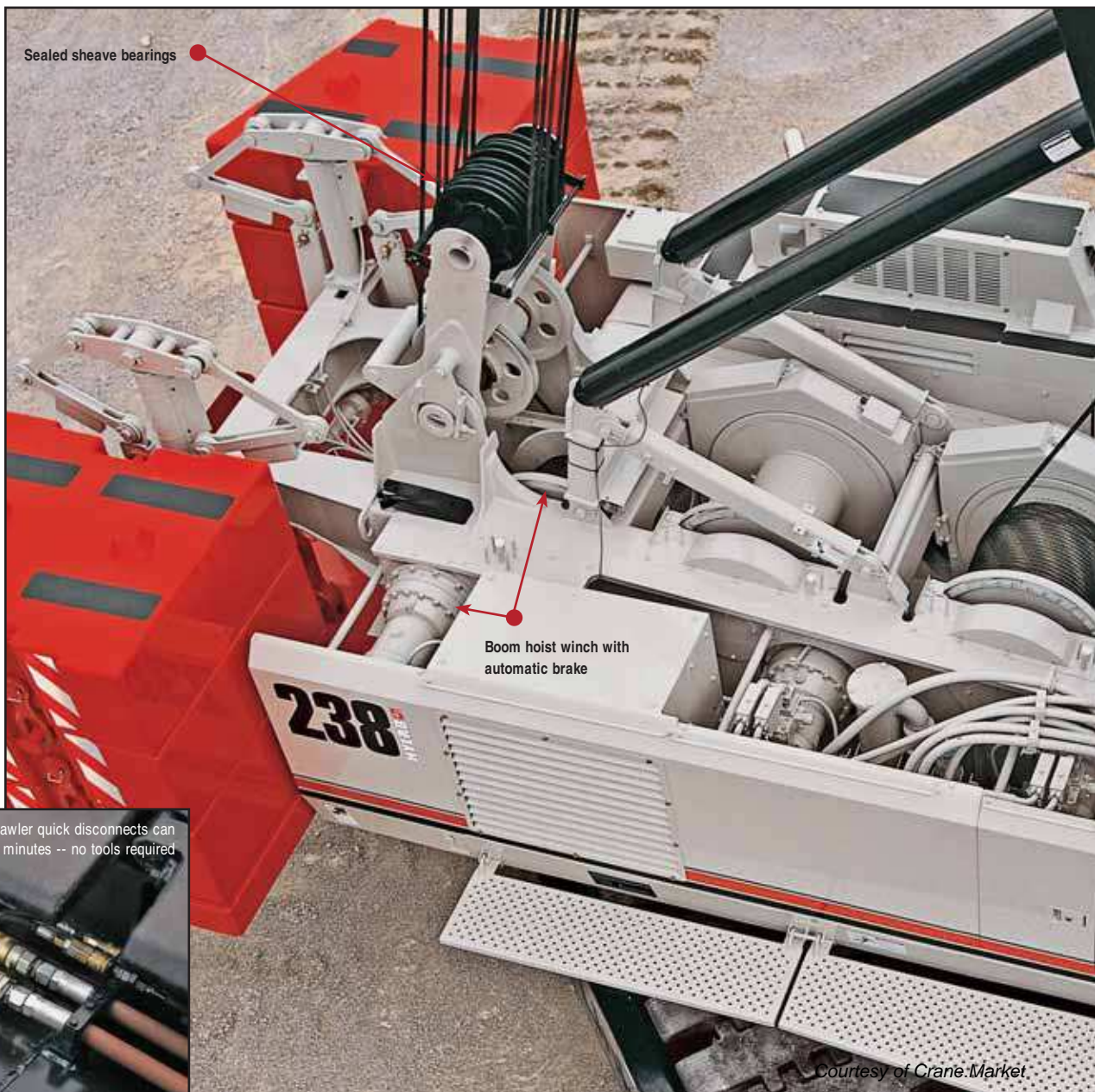
Right and left full-length catwalks - standard

Convenient battery access

Audible / visual swing alarm

Smooth, reliable power – quiet and problem free

- Standard winch package includes power up/power down and true gravity freefall
- Six pump hydraulic system provides smooth, uninterrupted performance
- Remote oil cooler with thermostatically controlled fan insures cool hydraulics
- High travel torque keeps crane mobile on job site



Sealed sheave bearings

Boom hoist winch with automatic brake



Low-effort crawler quick disconnects can attach in minutes -- no tools required

Awesome air, comfort & control at your fingertips

The spacious HYLAB cab is ergonomically designed for maximum visibility, operating comfort and control with these standard features:

- 18,000 BTU air conditioning and 19,000 BTU heating run through upper and lower vents
- Rated capacity limiter with load cell located in boom hoist dead end
- Pilot-operated armchair controls with adjustable sliding console
- Toe throttle pedal
- Travel levers conveniently located on right hand console

Operator's cab console features include:

- Complete engine monitoring
- Free-fall mode indicator
- Anti-two block override switch
- Boom hoist override switch
- Limit alarm indicator light
- System override switch and indicator light
- Front, rear and third drum lock switch
- Backlit instrumentation gauges with warning lamps



Available attachments provide strength and versatility

Conventional open throat boom

- **238 H5:** 50 to 260 ft (14.24 to 79.25 m) conventional boom
 - 70" x 62" (1.78 x 1.57 m) in-line pin-connected tube boom attachment and open throat top section
- **248 H5:** 50 to 280 ft (14.24 to 85.34 m) conventional boom
 - 80" x 68" (2.03 m x 1.73 m) in-line pin-connected tube boom attachment and open throat top section
- Main chord members are made with 100,000 psi yield material with high strength lattice.
- Bar pendants (248 H5 conventional only) — stow with boom connecting pins on each extension for ease of transport
- Boom suspension is achieved through 10-part boom hoist reeving.
- Standard equipment wear blocks protect lattice sections from wire rope scuffing.

Auxiliary 5 ft (1.5 m) tip extension

- Optional — designed to provide clearance between two working hoist lines

Boom and jib — open throat

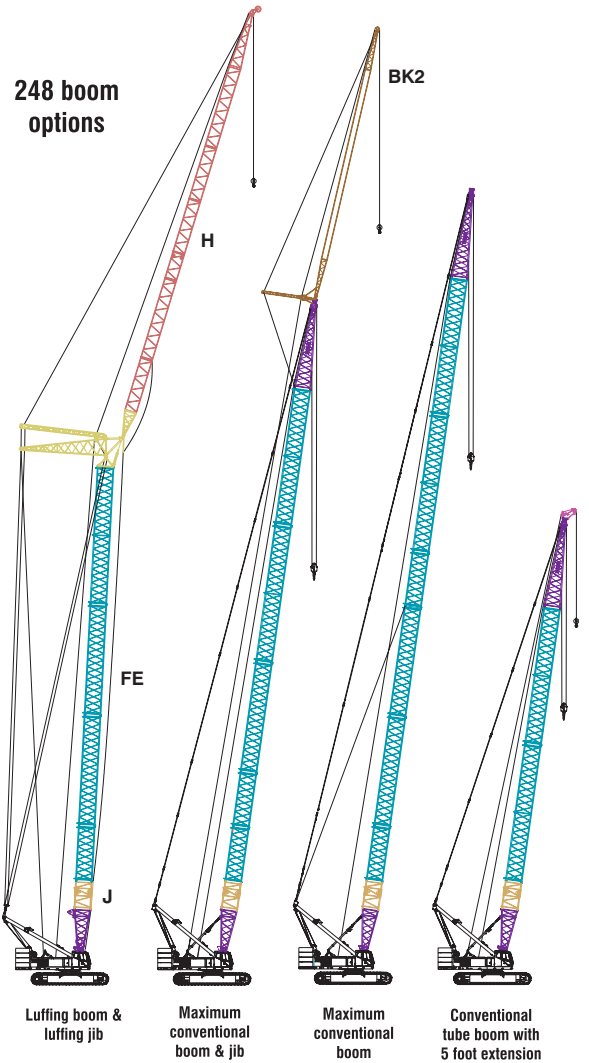
- **238 H5:** 230 ft + 75 ft (70.10 + 22.86 m) maximum tube boom + fixed jib
 - 308 ft (93.88 m) maximum tip height
- **248 H5:** 240 ft + 100 ft (73.15 + 30.48 m) maximum tube boom + fixed jib
 - 345 ft (105 m) maximum tip height

Luffing attachment

- **238 H5:** 27 ton (24.5 mt) capacity, 345 ft (105.16 m) luffing attachment with 360° capacities, utilizing conventional boom for luffing boom
- **248 H5:** 42.5 ton (38.56 mt) capacity, 380 ft (115.82 m) luffing attachment with 360° capacities, utilizing conventional boom for luffing boom

All boom sections are manufactured in Lexington, Kentucky for fast, accessible, easy service, parts and replacement.

248 boom options



238 boom options

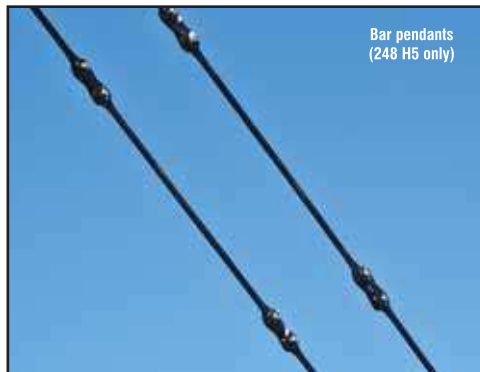


→ The boom top section features heavy duty steel sheaves and terminator sockets and wedges. Standard pin-on points for attachment of options such as a fixed jib, tip extension and adapters for universal pile driving leads with quick reeve ability.

In-line boom suspension load cell, standard with anti-two block system for both front and rear drum



Boom connecting pin holders



Bar pendants (248 H5 only)





Transports with base section & 10 ft insert — start lifting immediately!

- Transports with base section and optional 10 ft (3.05 m) rigging insert
- 13,000 lb "biscuit"-style counterweight maximizes transportability
- Simple counterweight removal system lowers counterweights all the way to the ground
- Carbody jacks are plumbed live — no need to disconnect
- Optional three-legged lift sling handles counterweight and crawlers
- 238 H5 moves in 7 loads, 248 H5 moves in 8 loads — both with full boom, jib and counterweight
- Self-assembly and disassembly (no helper crane required)



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CRANES

Lexington, Kentucky
www.linkbelt.com

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Litho in U.S.A. 406 12/05 #4319 (supersedes #4267)

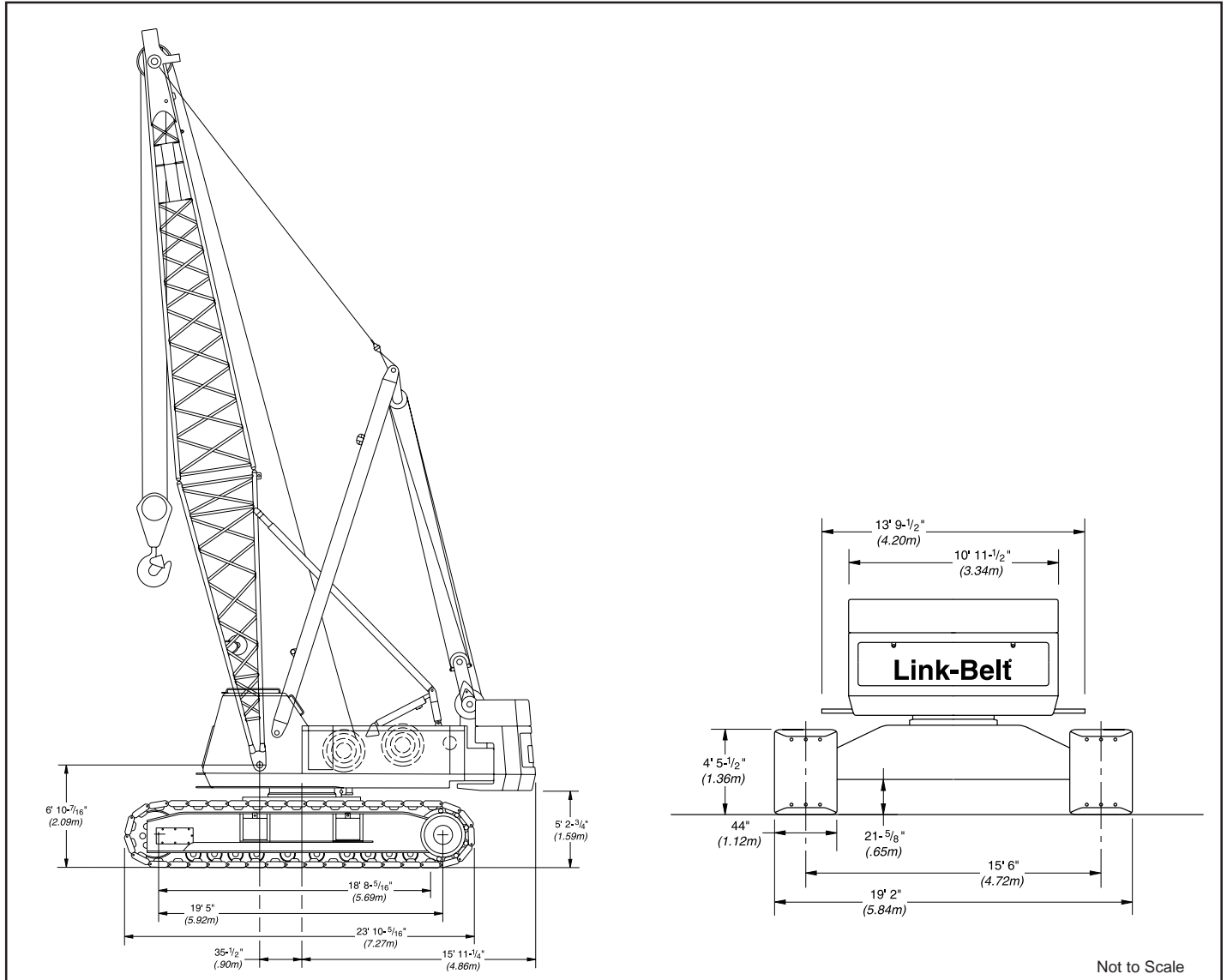
Specifications

Lattice Boom Crawler Crane

LS-238H

150-Ton (136 metric ton)

HYLAB Series



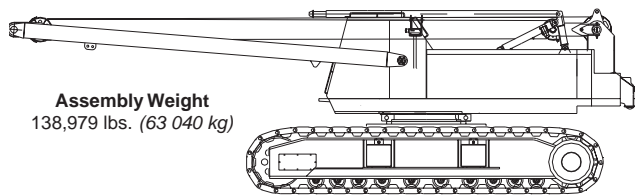
General dimensions	feet	meters
Basic boom length	50	15.24
Overall width of machine with 44" (1.12 m) track shoes	19.17	5.84
Overall width of cab w/catwalks both sides	13.79	4.20
Overall width of cab less catwalks	10.95	3.34

General dimensions	feet	meters
Tailswing of counterweight "A"	14.95	4.50
Tailswing of counterweight "AB"	15.94	4.85
Tailswing of counterweight "ABC"	15.94	4.85
Overall height for transport w/boom base	13.31	4.05
Overall height for transport w/live mast only	13.31	4.05
Maximum tailswing of live mast	19.71	6.01

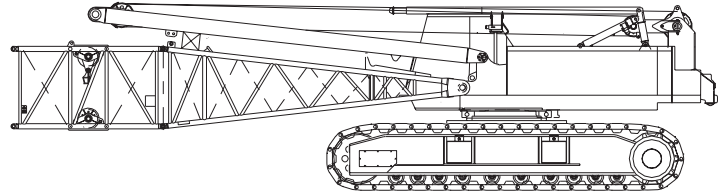
Machine Working Weights - approximate

Based on standard machine including Isuzu 6SD1TQB diesel engine, turntable bearing, independent hydraulic powered drums, boomhoist limiting device, independent hydraulic swing and travel, counterweight "ABC", swing brake, drum rotation indicators, and 15' 6" (4.72 m) gauge by 23' 10" (7.26 m) long crawler lower with 44" (1.12 m) wide track shoes, sealed track rollers, catwalks, hydraulic boomfoot pin removal, plus the following:	Ctwt. "A"		Ctwt. "AB"		Ctwt. "ABC"		Ctwt. "ABC" + Track Ctwt.	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
Lifting Crane - includes 50' (15.24 m) basic tubular boom, 26' (7.92 m) live mast, 950' (289.6 m) of 7/8" (22 mm) diameter wire rope, 465' (141.7 m) of 7/8" (22 mm) diameter boomhoist rope, 150-ton (136 mt) hookblock, and basic pendants.	170,034	77 126	189,364	85 894	216,034	97 991	236,034	107 063

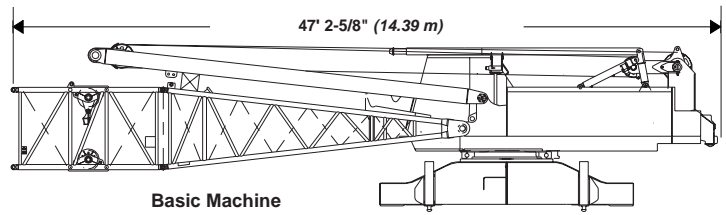
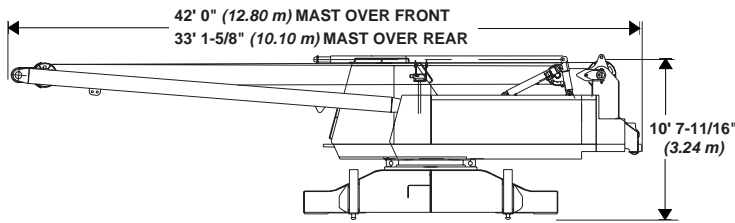
Transport Weights and Dimensions - ± 3%



Assembly Weight
138,979 lbs. (63 040 kg)

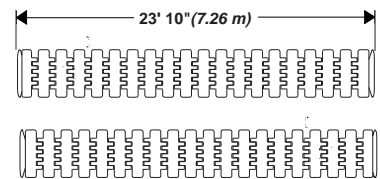
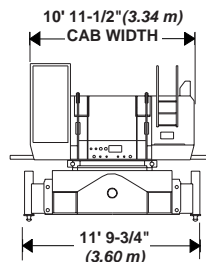


Assembly Weight
144,884 lbs. (65 718 kg)

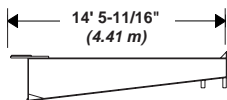


Basic Machine Shipping Weight
68,348 lbs. (31 002 kg)

Basic Machine Shipping Weight
59,759 lbs. (27 107 kg) Upper & Carbody
+ 2,684 lbs. (1 217 kg) Carbody Jacks
62,443 (28 324 kg) Total

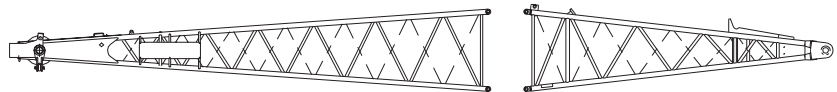


Tread Members
38,100 lbs. (17 281 kg) each
44" (1.12 m) Track shoes



Counterweight Assist Frame
3,400 lbs. (1 542 kg)
(not included in basic machine weight)

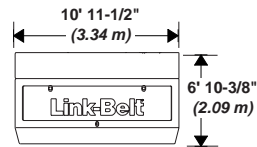
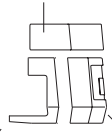
70" x 62" (1.77 x 1.57 m) tubular cross-section tubular boom



30' (9.14 m) Peak Section
4,430 lbs. (2 009 kg)

20' (6.10 m) Base Section w/power pins
3,625 lbs. (1 644 kg) - w/o third drum winch
5,625 lbs. (2 552 kg) - w/third drum winch assembly

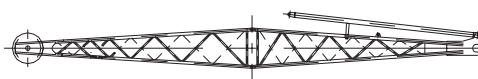
"C" Upper Counterweight
26,670 lbs. (12 098 kg)



"ABC" Counterweight
69,000 lbs. (31 298 kg)

"B" Upper Counterweight
19,330 lbs. (8 768 kg)

"A" Upper Counterweight
23,000 lbs. (10 433 kg)



30' (9.14 m) Jib Assembly
36" (.91 m) wide x 30" (.76 m) deep cross-section 1,700 lbs. (770 kg)



Track Counterweights (2)
10,000 lbs. (4 536 kg) each
(not included in basic machine weight)



Third Drum Winch
2,000 lbs. (907 kg) each
(not included in basic machine weight)

Optional Boom Sections	
10' (3.05 m) boom extension	1,100 lbs. (499 kg)
10' (3.05 m) with sheaves boom extension	2,280 lbs. (1 034 kg)
20' (6.10 m) boom extension	1,164 lbs. (645 kg)
30' (9.14 m) boom extension	1,669 lbs. (888 kg)
40' (12.19 m) boom extension	2,156 lbs. (1 131 kg)
50' (15.24 m) boom extension	2,638 lbs. (1 197 kg)
Misc. Items	
Axle wedge packs (4)	336 lbs. (152 kg)

Crawler Mounting

■ Lower frame

All welded high strength steel (100,000 psi yield), box construction; precision machined surfaces for turntable bearing and axle plates.

■ Turntable bearing

Outer race bolted to upper frame; inner race with internal swing gears bolted to lower.

■ Crawler side frames

All welded, precision machined and removable. Positioned on cross axles by dowels and held in place with adjustable wedge packs.

■ Track drive sprockets

Cast steel, heat treated, self-cleaning. Powered by hydraulic motors through double reduction gear drive.

■ Track carrier slide rails

Slide rails on top of each side frame.

■ Track rollers

Heat treated, mounted on oil filled "lifetime sealed" anti-friction bearings; 10 per side crawler side frame.

■ Tracks

Heat treated, self-cleaning, multiple hinged track shoes joined by one piece full floating pins; 42 shoes per side frame - 44" (1.12 m) wide.

Track tension adjustment - Idler wheel adjusted by means of hydraulic cylinder and hand pump. Idler wheel shaft held in position with shims after adjustment is made.

■ Take up idlers

Cast steel, heat treated, self-cleaning, mounted on aluminum/bronze bushings. Lubricated through idler shaft.

■ Independent hydraulic travel/steering

Power transmitted by axial piston hydraulic motors through double reduction unit to track drive sprocket.

Steering - Axial piston motor with reduction gear is located at inner drive end of each crawler side frame. Each track is driven simultaneously or individually for straight-line, gradual turn, or pivot turn. The tracks can be counterrotated for spin turns.

Brakes - Spring applied, hydraulically released multiple disc brakes are applied automatically when the control lever is in the neutral position.

Travel speed - 0.61 mph (0.97 km/hr).

Gradeability - 30%

■ Jacking system

Optional; four ground controlled, power hydraulic jacks, pinned to the lower carbody frame, used to raise the machine to facilitate removal or installation of the crawler side frames.

Ground contact area and ground bearing pressure

Based on standard machine equipped with "ABC" counterweight and 50' (15.24 m) tubular boom.

Track shoes		Ground contact area		Ground bearing pressure	
inches	meters	sq. in.	cm ²	psi	kg/cm ²
44	1.12	20,500	132 258	11.51	0.74

Revolving Upperstructure

■ Frame

All welded and precision machined.

■ Turntable bearing

With integral swing (ring) gear. Inner race with internal swing gear is bolted to lower frame.

■ Engine

Full pressure lubrication, oil filter, air cleaner, hour meter and throttle, electric control shutdown.

■ Fuel tank

77 gallon (291 liter) capacity; equipped with fuel sight level gauge, flame arrester, and self-closing cap with locking eye for padlock.

Engine Specifications	Isuzu 6SD1TQB
Number of cylinders	6
Bore and stroke: inch - (mm)	4.72 x 5.71 (115 x 135)
Piston displacement - cu. in. - (cm ³)	600 (8 413)
High idle speed - rpm	2,325
Engine rpm at full load speed	2,100
Net engine hp at full load speed	207
Peak torque - foot pounds - joules	513 (696)
Peak torque - rpm	1,400
Electrical system	24-volt
Batteries	2 - 12 volt

LS-238H Load Hoisting Performance

Available line speed and line pull

Line pulls are not based on wire rope strength. See wire rope chart below for maximum permissible single part of line working loads.

Line Speeds and Pulls

Rope layer	Front Drum - 7/8" (22 mm) wire rope						Rear Drum - 7/8" (22 mm) wire rope					
	Maximum line pull		No load line speed		Full load line speed		Maximum line pull		No load line speed		Full load line speed	
	lbs.	kg	ft./min	m/min	ft./min	m/min	lbs.	kg	ft./min	m/min	ft./min	m/min
1	35,913	16 290	227	69	113	35	22,154	10 049	368	112	184	56
2	33,081	15 006	246	75	123	38	20,407	9 257	399	122	200	61
3	30,649	13 902	266	81	133	41	18,906	8 576	431	131	216	66
4	28,562	12 956	285	87	143	43	17,619	7 992	462	141	231	71
5	26,730	12 125	305	93	152	46	16,489	7 479	494	151	247	75
6	25,129	11 399	324	99	162	49	15,502	7 031	525	160	263	80
7	23,700	10 750	344	105	172	52	14,620	6 632	557	170	279	85

Rope layer	Boomhoist Drum - 7/8" (22 mm) wire rope						Third Drum - 3/4" (19 mm) wire rope					
	Maximum line pull		No load line speed		Full load line speed		Maximum line pull		No load line speed		Full load line speed	
	lbs.	kg	ft./min	m/min	ft./min	m/min	lbs.	kg	ft./min	m/min	ft./min	m/min
1	40,842	18 526	112	34	100	30	18,961	8 601	248	76	185	56
2	36,760	16 674	124	38	111	34	17,607	7 986	268	82	199	61
3	33,417	15 158	136	42	122	37	16,433	7 454	287	88	214	65
4	30,633	13 895	149	45	133	41	15,406	6 988	306	93	228	70
5	28,276	12 826	161	49	144	44	14,500	6 577	325	99	242	74
6	26,257	11 910	174	53	155	47	--	--	--	--	--	--
7	24,506	11 116	186	57	166	51	--	--	--	--	--	--

Wire Rope Drum Capacities

Rope layer	Boomhoist Drum Capacity - 7/8" (22 mm) wire rope					
	Pitch Diameter		Layer		Total	
	in.	mm	ft.	m	ft.	m
1	15.88	403	51.8	15.8	51.8	15.8
2	17.63	448	57.1	17.4	108.9	33.2
3	19.38	492	62.3	19.0	171.2	52.2
4	21.13	537	67.2	20.5	238.5	72.7
5	22.88	581	72.5	22.1	310.9	94.8
6	24.63	625	77.4	23.6	388.4	118.4
7	26.38	670	82.7	25.2	471.3	143.7

Rope layer	Front Drum Capacity - 7/8" (22 mm) wire rope					
	Pitch Diameter		Layer		Total	
	in.	mm	ft.	m	ft.	m
1	17.6	448	111	33.8	111	33.8
2	19.4	492	122	37.1	233	70.9
3	21.1	537	133	40.5	365	111.4
4	22.9	581	144	43.8	509	155.3
5	24.6	626	155	47.2	664	202.4
6	26.4	670	166	50.5	830	253.0
7	28.1	715	177	53.9	1,007	306.9

Rope layer	Rear Drum Capacity - 7/8" (22 mm) wire rope					
	Pitch Diameter		Layer		Total	
	in.	mm	ft.	m	ft.	m
1	17.6	448	111	33.8	111	33.8
2	19.4	492	122	37.1	233	70.9
3	21.1	537	133	40.5	365	111.4
4	22.9	581	144	43.8	509	155.3
5	24.6	626	155	47.2	664	202.4
6	26.4	670	166	50.5	830	253.0
7	28.1	715	177	53.9	1,007	306.9

Rope layer	Third Drum Capacity - 3/4" (19 mm) wire rope					
	Pitch Diameter		Layer		Total	
	in.	mm	ft.	m	ft.	m
1	19.5	495	148	45.1	148	45.1
2	21.0	533	160	48.8	308	93.9
3	22.5	572	171	52.1	479	146.0
4	24.0	610	182	55.5	661	201.5
5	25.5	648	194	59.1	855	260.6

Wire Rope: size, type and working strength

Wire rope application	Size: diameter		Type	Max. permissible load	
	inches	mm		lbs.	kg
Boomhoist	7/8	22	AC	25,000	11 340
Main load hoist	7/8	22	DB	22,700	10 297
Jib load hoist	7/8	22	RB	17,520	7 938
Boom pendants (dual)	1-3/8	35	N	64,000	29 030
Jib staylines	7/8	22	N	22,700	10 297
Third Drum	3/4	19	RB	12,920	5 861

Wire Rope: types available

- Type "DB" - 6 x 26 (6 x 19 class) Warrington Sale, extra improved plow steel, preformed, right lay, regular lay.
- Type "AC" - 9 x 40 strand, post formed, swaged - constructex, crush resistant
- Type "RB" - 18 x 19 non-rotating, extra, extra improved plow steel, preformed, right lay, regular lay, swaged.

Hydraulic System

■ Hydraulic pumps

Two variable displacement piston pumps operating at 4,000 psi (281.24 kg/cm²) power travel, main drum, auxiliary drum, third drum, and boomhoist functions. One fixed displacement gear pump operating at 3,000 psi (211 kg/cm²) power swing, counterweight lowering, and machine jack functions. One fixed displacement gear pump operating at 1,210 psi (85 kg/cm²) powers pilot control system, clutches, brakes, and pump controls.

■ Pump control ("fine inching") mode

Special fine metering pump setting selectable from the operator's cab allows very slow movements for precision work. Main hoist, auxiliary hoist, boomhoist, third drum, and travel are all supplied with this standard feature.

■ Hydraulic reservoir

42 gal. (159 L), equipped with sight level gauge.

■ Relief valves

Each function is equipped with relief valves to protect the circuit from overload or shock.

■ Hydraulic filtration

Ten micron, full flow line filter furnished in control circuit. All oil is filtered prior to return to sump tank.

■ Hydraulic motors

Main hoist drum, auxiliary hoist drum, boomhoist, swing, and travel are powered by axial piston motors.

■ Counterbalance valves

Upper - Hoist motors are equipped with counterbalance valves to provide positive load lowering and prevent accidental load drop when hydraulic power is suddenly reduced.

Lower - Travel motors are equipped with counterbalance valves to provide positive travel lock and prevent overspeeding of travel motors.

Principal Operating Functions

■ Control system

Remote controlled hydraulic servo for main drum, auxiliary drum, travel, boomhoist, and third drum. Mechanical linkage controls swing. Function speed is proportional to lever movement. Levers are adjustable for operator comfort.

■ Load hoisting and lowering

Main and auxiliary hoist drums are driven by individual axial piston motors and reduction gearing. Load hoisting or lowering is provided by actuating a hydraulic motor. The control lever provides two speeds for hoisting and lowering. Hoisting or lowering speeds are proportional to lever movement.

Freefall - The incorporation of power hydraulic controlled, two-shoe clutches allow freefall operation of the main and auxiliary hoist drums for special crane cycle application. Mode selection switch on control panel allows operator to select the most productive operation mode.

■ Load hoist drums

Main (front) and auxiliary (rear) hoist drums are 16-3/4" (.43 m) root diameter grooved for 7/8" (22 mm) wire rope. Mounted on anti-friction bearings.

Third operating drum - *Optional*, 18-3/4" (.49 m) grooved drum lagging, mounted in boom base section. 3/4" (19 mm) wire rope.

■ Drum clutches

Speed-o-Matic® power hydraulic two-shoe clutches; internal expanding, lined shoes. Clutch spiders are splined to shafts; clutch drums are integral with hoist drums.

Load hoist clutches - Front and rear main drums - clutch drums 20" (.51 m) diameter, 5" (.13 m) width.

■ Drum brakes

External contracting band type; operated by foot pedal equipped with a locking latch. Operator may select automatic brake mode* (spring applied, hydraulically released), which will apply brakes when the hoist control lever is in the neutral position.

*When in the automatic brake mode, the LS-238H meets all OSHA requirements for personnel handling.

■ Drum rotation indicators

Standard for front and rear drums. Audible-type indicators.

■ Drum locking pawl

Standard for front and rear drums; electrically actuated and prevents drum rotation in a lowering direction.

■ Anti two-block system

Standard - A switch mounted on the boom peak activates a buzzer to warn the operator of a two-block condition and simultaneously disengages hoist function while applying the hoist brakes.

■ Swing system

Independent, hydraulic swing is driven by two gear motors through a gear reduction system; free swing when lever is in neutral position.

Swing brake - Spring applied, hydraulically released; controlled by button on swing control lever.

Swing lock - Mechanically controlled, three-position locking mechanism.

Swing speed - Variable from 0 to 2.2 rpm.

■ Boomhoist/lowering system

Independent, hydraulic boomhoist is driven by an axial piston motor through a gear reduction system. Boom hoisting or lowering is performed by actuating or reversing the motor. Boomhoist speed is infinitely variable. Boomhoist speed from 0° to 70° boom angle is 90 seconds.

■ Boomhoist drum

Single grooved lagging 10.68" (.27 m) root diameter.

■ Boomhoist drum locking pawl

Electrically operated.

■ Boomhoist brake

Spring applied, hydraulically released, multiple disc type brake. Brake is automatically applied when control lever is in neutral position.

Boomhoist limiting device - Restricts hoisting boom beyond recommended minimum radius.

■ Electrical system

24 volt negative ground system with two 12-volt batteries. Standard lighting system includes: two 70 watt headlights mounted on machine front and one interior cab light.

■ Operator's cab

Full vision, modular compartment with safety glass panels. The completely independent cab is insulated against noise and vibration. Sliding operator's door, swing up roof window. Standard equipment includes: heater, air conditioner, defroster, windshield wiper, dry chemical fire extinguisher, sun visor, bubble-type level, fuel gauge, tachometer, hydraulic temperature gauge, engine oil pressure gauge, coolant temperature gauge, and service monitor system.

■ Machinery cab

Hinged doors (one on right side, two on left side) for machinery access. Equipped with rooftop access ladder, electric warning horn and skid resistant finish on roof.

■ Catwalks

Standard on right and left sides. Catwalks remove for reduced travel width.

■ Bail

Pinned to revolving frame. Five sheaves are provided for 16 part boomhoist wire rope reeving. Sheaves mounted on "sealed" anti-friction bearings.

■ Counterweights

"A" upper ctwt. - 23,000 lbs. (10 433 kg)

"AB" upper ctwt. - 42,330 lbs. (19 201 kg)

"ABC" upper ctwt. - 69,000 lbs. (31 298 kg)

Track ctwt. (2) - 10,000 lbs. (4 536 kg) each

Boom and Jib

■ Tubular boom

Two-piece basic boom 50' (15.24 m) long with open throat top section. Boom 70" (1.78 m) wide, 62" (1.57 m) deep at connections. Alloy steel round tubular cords 4" (101.6 mm) outside diameter. Maximum boom length is 240' (73.15 m).

■ Base section

20' (6.10 m) long; boomfoot lugs on 55" (1.40 m) centers.

■ Boom extensions

Available in 10', 20', 30', 40' and 50' (3.05, 6.10, 9.14, 12.19 and 15.24 m) lengths with appropriate length pendants.

Optional - Special 10' (3.05 m) boom extension with necessary sheaves for handling crawler side frames and counterweight. Can be used as an extension in normal boom makeup. Includes appropriate pendants.

■ Boom connections

In-line pin connections.

■ Boom top section

Open throat; 30' (9.14 m) long.

■ Boompoint machinery

Six 20-1/2" (.52 m) root diameter sheaves mounted on "sealed" anti-friction bearings.

■ Hydraulic boomfoot pin removal

Standard; Speed-o-Matic controlled; located between mounting lugs on boom base section.

■ Boom live mast

26' (7.92 m) long; supports boomhoist bridle and boom pendants. Required for all boom lengths. May be used as short boom for assembling and disassembly of side frames and boom, but is not intended for general crane service. Refer to operator's manual for boom live mast lifting capacities.

■ Jib

Tubular; two-piece basic jib 30' (9.14 m) long; 36" (.91 m) wide, 30" (.75 m) deep at centerline of connections. Alloy steel tubular chords 2-1/2" (63 mm) outside diameter.

Base section - 15' 0" (4.57 m) long.

Jib extensions - Available in 10' (3.05 m), 20' (6.10 m), and 30' (9.14 m) lengths with appropriate length pendants.

Jib connections - In-line, tapered pins.

Tip section - 15' (4.57 m) long; equipped with single peak sheave 21" (.53 m) root diameter, heat treated and mounted on anti-friction bearings. Anchor provided at peak of jib tip section for two-part load hoist wire rope (whipline) connection.

Maximum jib length permitted - 70' (21.34 m). All jib lengths may be mounted at 0°, 15°, or 30° offset to boom.

■ Jib mast

12' 7.62" (3.85 m) long, mounted on jib base section. Deflector sheave mounted within mast to guide whipline; mounted on anti-friction bearings.

Jib staylines - Front and back staylines. Back staylines vary in length depending on degree of jib offset from boom centerline; back staylines attached at bottom end of boom top section.

Jib stops - Telescoping type; pinned from jib mast to boom top section and from jib mast to jib base section.

Auxiliary Equipment

■ Boom angle indicator

Pendulum type; mounted on boom base section. Electronic type readout on load indicator.

■ Hook blocks

Blocks, or weighted ball with swivel hook, *optional* - refer to price list.

■ Rated capacity limiter

Standard; electronic load indicator for load hoist line.

■ Swing alarm

Standard; audio/visual warning device signals when upper is swinging.

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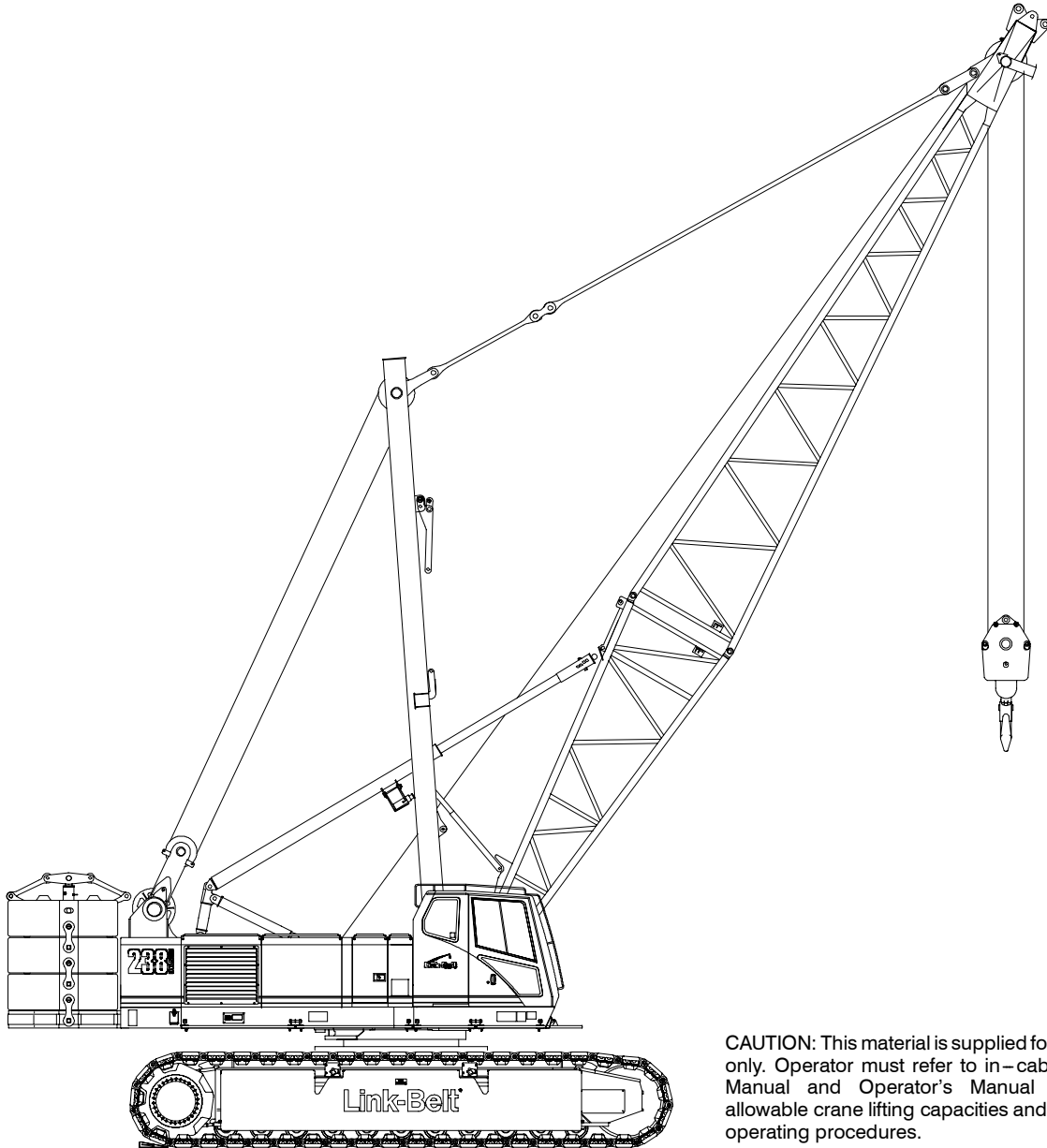
Technical Data

Specifications & Capacities

238

HYLAB 5

Crawler Crane
150 Ton (136 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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Upper Structure

Frame

All welded and precision machined surfaces.

Turntable Bearing

- With integral swing gear. Inner race with internal swing gear is bolted to lower frame.
- Outer race bolted to upper frame; inner race with internal swing gears bolted to lower frame.

Engine

Engine

Full pressure lubrication, oil filter, air cleaner, hour meter, throttle, and electric control shutdown.

Isuzu AH–6HK1X	
Number of cylinders	6
Bore and stroke	4.53 in x 4.92 in (115 x 125mm)
Piston displacement	475 in ³ (7.8L)
Engine rpm at full load speed	2,000 rpm
Hi–idle rpm	2,050 rpm
Gross engine hp	284 hp (212kw)
Peak torque	830 ft lb (1 125joule) @ 1,500 rpm
Electrical system	24 volt
Fuel tank capacity	77 gal (291.5L)
Batteries	2–12 volt
Approximate fuel consumption	gal/hr (L/hr)
100% hp	14.4 (54.51)
75% hp	11.7 (44.29)
50% hp	8.4 (31.80)
25% hp	4.2 (15.89)

Fuel Tank

Equipped with fuel sight level gauges, flame arrester, and self–closing cap with locking eye for padlock.

Hydraulic System

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.

- Two variable displacement pumps operating at 4,480 psi (315kg/cm²) and 74 gal/min (280L/min) powers load hoist drums, boom hoist drum, optional third drum, and travel.
- Two fixed displacement gear type pumps operating at 3,340 psi (235kg/cm²) and 21 gal/min (80L/min) powers the swing motor, lower jacks, and counterweight removal.
- One fixed displacement gear type pump operating at 1,991 psi (140kg/cm²) and 8.4 gal/min (31.8L/min) powers the fan for the oil cooler.
- One fixed displacement gear type pump operating at 1,138 psi (80kg/cm²) and 10.7 gal/min (40.6L/min) powers the remote control valves.

Remote Oil Cooler

Oil cooler, located behind the operator's cab, has a hydraulically driven, thermostatically controlled fan to control oil temperature.

Pump Control “Fine Inching” Mode

Special pump setting, selectable from the operator's cab, that allows very slow movements of load hoist drums, boom hoist drum, and travel for precision work.

Hydraulic Reservoir

42 gal (159.0L), equipped with sight level gauge. Diffusers built in for deaeriation.

Filtration

Ten micron, full flow, line filter in the control circuit. All oil is filtered prior to entering the 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.

Load Hoist Drums

Each 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 & free–fall operation modes
- Automatic brake mode (spring applied, hydraulically released, band type brake)
- Grooved lagging
- Drum pawl controlled manually
- Electronic drum rotation indicators
- Mounted on anti–friction bearings
- 16.76 in (42.57cm) root diameter
- 33.80 in (85.85cm) flange diameter
- 22.62 in (57.45cm) width

The free–fall operation mode is designed to prevent load lowering even if the free–fall switch is accidentally activated.

The automatic brake mode meets all OSHA requirements for personnel handling.

Drum Clutches

Hydraulic two shoe clutch design that uses a 20 in (50.80cm) diameter x 5 in (12.70cm) wide shoe that expands internally to provide load control. Swept area is 314.16 in² (2 026.83cm²).

Optional Front–Mounted Third Hoist Drum

Mounts in the boom base section and is used in conjunction with a fleeting sheave and 3–sheave idler assembly to run the wire rope over the boom top section.

- Power up/down for luffer applications where a second load line is needed
- Controlled free spooling capability for pile driving applications
- 18.75 in (47.63cm) root diameter
- 27 in (68.58cm) flange diameter
- 24 in (60.96cm) width
- Mounted on anti–friction bearings

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
- Grooved lagging
- Drum pawl controlled automatically
- Mounted on anti-friction bearings
- 14.99 in (38.07cm) root diameter
- 30.71 in (78.00cm) flange diameter
- 11.55 in (29.34cm) width

Swing System

Pilot controlled bi-directional axial piston motors and planetary gear reduction units to provide positive control under all load conditions.

- Spring applied, hydraulically released, 360° multi-plate brake
- Free swing mode when lever is in neutral position
- Four position positive house lock
- Two-speed swing
- Audio/Visual swing alarm
- Maximum swing speed is 2.18 rpm

Counterweight

Consists of a five-piece design that can be easily lowered to the ground using the hydraulic counterweight removal cylinders.

- “A” upper counterweight consists of one, 14,000 lb (6 350kg) base slab and two, 13,000 lb (5 897kg) wing weights.
- “B” upper counterweight consists of two, 13,000 lb (5 897kg) wing weights.
- “C” upper counterweight consists of two, 13,000 lb (5 897kg) wing weights.
- Two side frame counterweights – 24,000 lb (10 886kg) each.

Total combined counterweight, “ABC” plus side frames counterweights, is 140,000 lb (63 504kg).

Operator Cab

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

- All tinted/tempered safety glass
- Folding hinge entry door and sliding front glass window
- 19,000 BTU hot water heater
- 18,600 BTU air conditioner
- Door and window locks
- Circulating fan
- Sun visor
- Cloth seat
- Defroster
- Windshield wipers and washer
- Dry chemical fire extinguisher
- Engine instrumentation panel (voltmeter, engine oil pressure, engine water temperature, fuel level, hydraulic oil temperature, hour meter, and service monitor system)
- Electronic drum rotation indicators for front and rear hoist drums
- Six way adjustable seat
- Hand and foot throttle
- Fully adjustable single axis controls
- Swing lever with swing brake and horn located on handle
- Bubble type level
- Ergonomic gauge layout
- Controls shut off lever
- Right hand control stand is adjustable by electric motor for operator comfort.

Rated Capacity Limiter System

The rated capacity limiter system is a boom hoist load cell system. This system provides the operator with useful geometrical data, to include:

- Main Boom Length
- Main Boom Angle
- Jib Length
- Jib Angle
- Operating Mode

- Load Radius
- Boom Tip Height
- Audible Alarm
- Pre-Warning Light
- Overload Light
- Load On Hook
- Function kick-outs including over load
- Operator settable stops (ramped stops)
- Anti-Two Block Indicator
- Boom hoist dead end load cell (no lineriders)

Boom Hoist System

Designed to lift off maximum boom or maximum boom plus jib and maximum luffing attachment unassisted. Operates up to a maximum boom angle of 80°. Boom hoist limit system limits maximum boom angle operation.

- Pin-on bail frame
- 10-part reeving with 7/8 in (22mm) wire rope
- Bridle assembly
- 26 ft (7.92m) live mast
- Tubular boom backstops (telescopic type)
- Sheaves contain sealed anti-friction bearings
- Boom speed from 10° – 70° is 90 seconds with no load. Speed was determined using 100 ft (30.48m) of tube boom.

Machinery Cab

Hinged doors (one on right side, two on left side) for machinery access. Equipped with rooftop access ladder and skid resistant finish on roof.

Catwalks

Standard on right and left sides. Catwalks are removable for reduced travel width.

Lower Structure

Carbody

Lower Frame

All welded high strength steel [100,000 psi (689.48MPa) yield] box construction frame with precision machined surfaces for turntable bearing and rotating joint.

- 17 ft (5.18m) overall width
- 11 ft 9.75 in (3.60m) overall length

Side Frames

Side Frames

All welded, precision machined and removable. Carbody cross axles positioned by dowels and held in place with adjustable wedge packs.

- 15 ft 6 in (4.72m) gauge
- 25 ft 0.75 in (7.64m) overall length
- 44 in (1.12m) wide track shoes
- Sealed (oil filled) drive planetaries
- Compact travel drives
- Slide rails on top of each side frame

Track Rollers

- Eleven sealed (oil filled) track rollers per side frame
- Heat treated, mounted on oil filled anti-friction bearings

Tracks

Heat treated, self-cleaning, multiple hinged track shoes joined by one-piece full floating pins; 44 shoes per side frame

Take Up Idlers

Cast steel, heat treated, self-cleaning, mounted on aluminum/bronze bushings. Lubricated through idler shaft.

- **Track Tension Adjustment** – Idler wheel adjusted by means of hydraulic cylinder and hand pump. Idler wheel shaft held in position with shims after adjustment is made.

Travel and Steering

Travel and Steering

Each side frame 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 0.78 mph (1.25km/h).
- Designed to 30% gradeability

Jack System

System contains four hydraulic cylinders individually pinned on the carbody.

- Standard; four ground controlled, power hydraulic jacks, pinned to the lower carbody frame, used to raise the crane to facilitate removal and installation of the crawler side frames.
- Individual controls are mounted on carbody.
- Minimum height of carbody when resting on pontoons is 21.50 in (54.61cm).
- Maximum height of carbody when resting on pontoons is 37.50 in (0.95m).

Attachment and Options

Conventional Tubular Boom 50–260 ft (15.24–79.25m)

Basic Boom

50 ft (15.24m) two-piece design that utilizes a 20 ft (6.10m) base section and a 30 ft (9.14m) open throat top section with in-line connecting pins on 70 in (1.78m) wide and 62 in (1.57m) deep centers.

- Boom foot on 55 in (1.40m) centers
- 4 in (10.16cm) diameter chords
- Lugs on base section to attach carrying links
- Skywalk platform
- Deflector roller on top section
- Permanent skid pads mounted on top section to protect head machinery

- Six, 20.50 in (52.07cm) root diameter steel sheaves mounted on sealed anti-friction bearings
- Tip extension and jib connecting lugs on top section
- Mechanical boom angle indicator

Tube Boom Extensions

The following table provides the lengths available and the suggested quantity to obtain maximum boom in 10 ft (3.05m) increments. Midpoint pendant connections are required at 110 ft (33.5m) for boom lengths of 250 ft (76.2m) and 260 ft (79.2m).

- Polyamide wear blocks on top of each extension
- Appropriate length bar pendants stored on extension

Tube Boom Extensions		Quantity For Max Boom
ft	m	
10	3.05	2*
20	6.10	2
30	9.14	1
40	12.19	3

* Assumes one 10 ft (3.05m) extension is the self-assembly section.

- Maximum tip height of 262 ft 11 in (80.14m)
- Boom connecting pins storage on each extension

Tubular Jib 30–75 ft (9.14–22.86m)

Basic Tube Jib

30 ft (9.14m) two–piece design that utilizes a 15 ft (4.57m) base section and a 15 ft (4.57m) top section with in–line connecting pins on 32 in (0.81m) wide and 24 in (0.61m) deep centers.

- 2 in (50.8mm) diameter tubular chords
- One 18.50 in (0.47m) root diameter steel sheave mounted on sealed anti–friction bearings
- 15 ft (4.57m) jib extensions provide jib lengths of 45 ft (13.72m), 60 ft (18.29m), and 75 ft (22.86m) for tube boom.
- Jib offset angles at 5°, 15°, and 25°
- The maximum tip height of tube boom + jib [230 ft + 75 ft (70.10 + 22.86m)] is 308 ft (93.88m).
- Can be used as fixed jib on luffing jib

Luffing Boom 85–165 ft (25.91–50.29m)

- Common base and extensions as open throat boom (“FD” boom only)
- 10 ft (3.05m) luffing extension required for bail anchor
- Working angles of 90°, 85°, 80°, 75°, 70°, and 65°
- Working lengths of 85 ft (25.91m) to 165 ft (50.29m)

Luffing Boom Extensions

The following table provides the lengths available and the suggested quantity to obtain the maximum luffing boom in 10 ft (3.05m) increments. Midpoint pendants are not required.

Luffing Boom Extensions		Quantity For Max Boom
ft	m	
10*	3.05	1
20	6.10	1
30	9.14	1
40	12.19	2

* 10 ft (3.05m) extension is the self–assembly section. Required for luffer operation.

Note: “FD” type boom must be used.

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

Auxiliary Tip Extension 5 ft (1.5m)

Designed to use in place of jib to provide clearance between working hoist lines. The extension is equipped with two nylon 18 in (45.72cm) root diameter sheaves mounted on sealed anti–friction bearings. Maximum capacity is 18.5 Ton (16.78mt).

Luffing Jib 80–160 ft (24.38–48.77m)

Basic Luffing Jib

80 ft (24.38m) five–piece design utilizes a 5 ft (1.52m) luffing boom top section, 20 ft (6.10m) luffing jib base section, 10 ft (3.05m) jib extension, 30 ft (6.10m) extension, and 20 ft (6.10m) top section with in–line connecting pins. Jib extensions are 44 in (1.12m) wide and 54 in (1.37m) deep at the centers.

- 27 Ton (24.50mt) maximum capacity
- Working lengths of 80 ft (24.38m) to 160 ft (48.77m)
- Top section includes mounting lugs for all attachment options
- Lugs on base section to attach fan–post transport links
- Two steel 18 in (45.72cm) diameter luffing jib head sheaves
- Two polyamide 21.25 in (53.98cm) diameter luffing boom auxiliary head sheaves
- Pin–on nose wheel
- Eight–part luffing jib hoist
- 1.25 in (31.75mm) diameter type “N” pendants

Luffing Jib Extensions

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

Luffing Jib Extensions		Quantity For Max Luffing Jib
ft	m	
20	6.10	1
30	9.14	2

Notes:

These extensions, combined with extensions included in basic luffing jib, make up all jib lengths to 160 ft (48.77m).

40 ft (12.19m) of extensions included in basic jib. Extensions and pendants common with the LS–138H, LS–138H II, 138 HYLAB 5, LS–208H, and LS–208H II.

- Deflector roller on top of each extension
- Appropriate length pendants
- Maximum luffing jib tip height of 326 ft (99.36m)

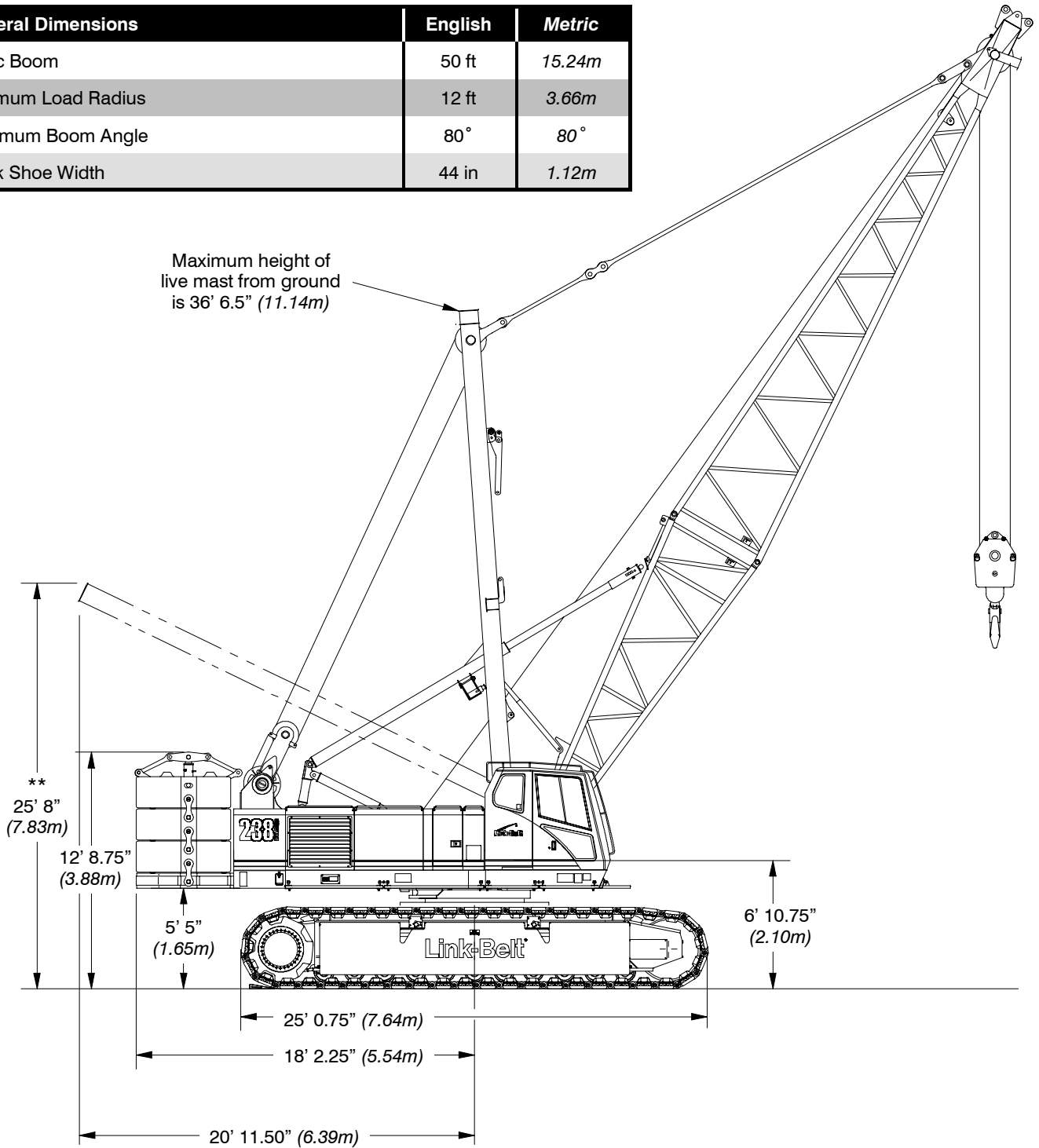
Fixed Jib 30 ft (9.14m)

30 ft (9.14m) two–piece design that utilizes a 15 ft (4.57m) base section and a 15 ft (4.57m) top section with in–line connecting pins on 32 in (0.81m) wide and 24 in (0.61m) deep centers.

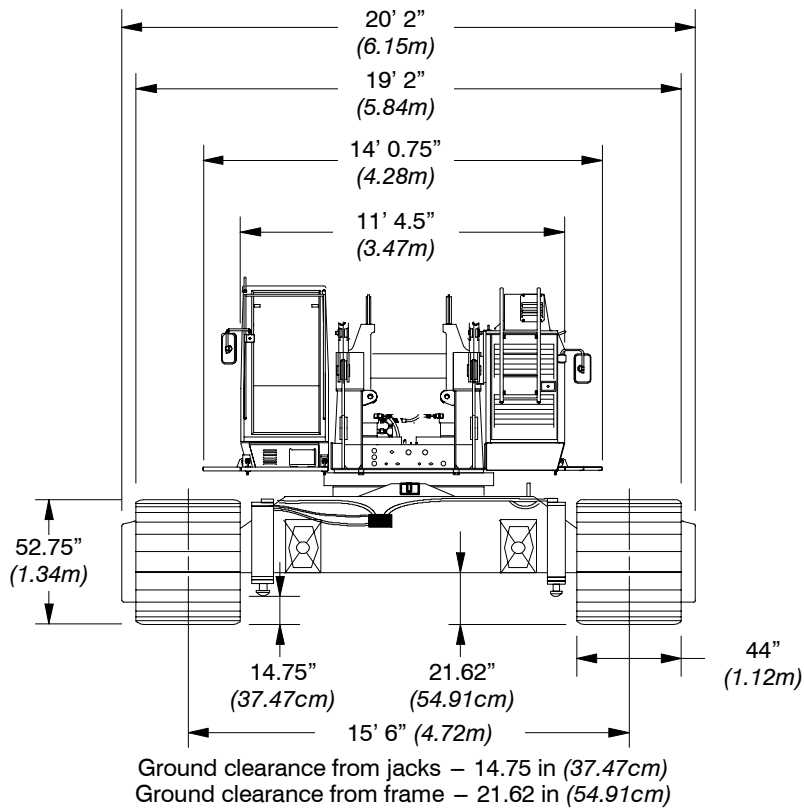
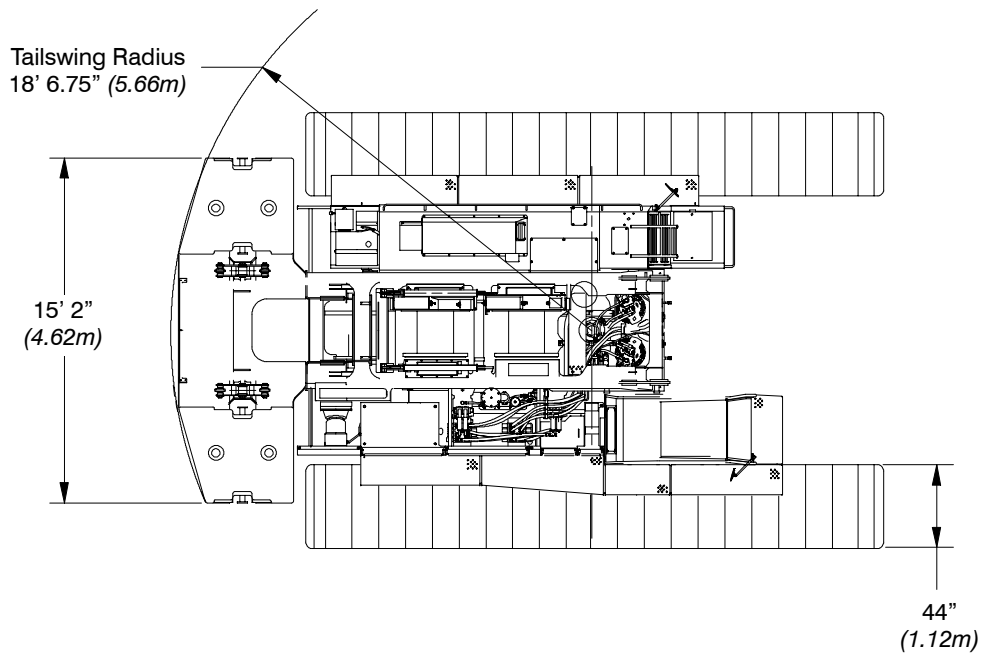
- 2 in (50.8mm) diameter tubular chords
- One 18.50 in (0.47m) root diameter steel sheave mounted on sealed anti–friction bearings
- Fixed jib offset angle is 5°

Dimensions

General Dimensions	English	Metric
Basic Boom	50 ft	15.24m
Minimum Load Radius	12 ft	3.66m
Maximum Boom Angle	80°	80°
Track Shoe Width	44 in	1.12m



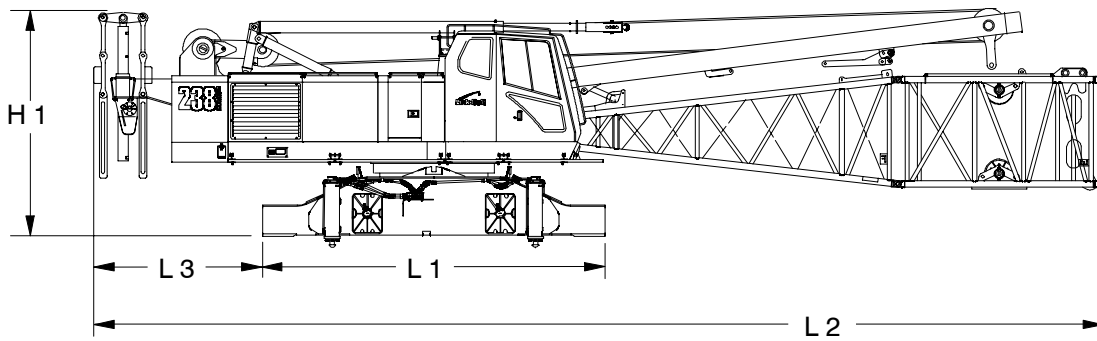
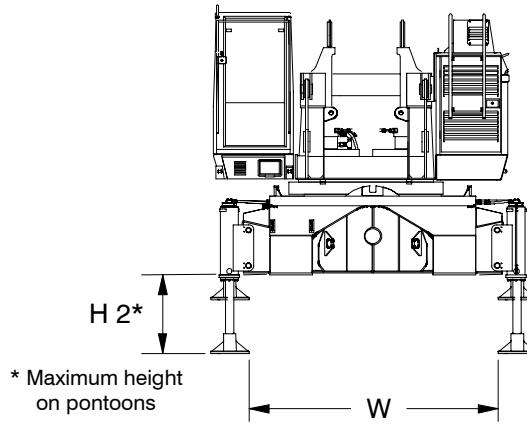
Note: ** @ Maximum boom angle (80°) with maximum boom [260 ft (79.25m)], maximum rotation radius occurs.



Base Crane

Base Crane ①

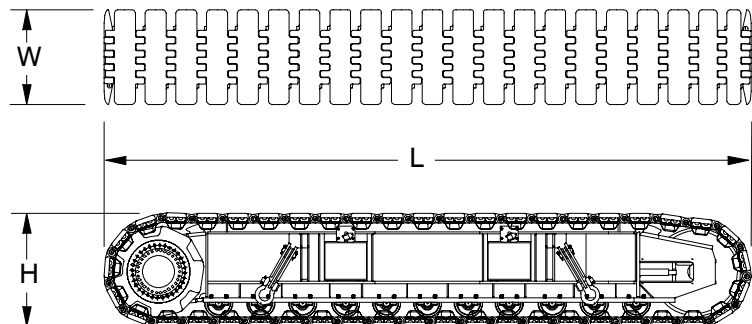
Length 1	16 ft 11.50 in	(5.17m)
Length 2	49 ft 11.25 in	(15.22m)
Length 3	8 ft 4 in	(2.54m)
Width	9 ft 1.50 in	(2.78m)
Height 1	11 ft 3 in	(3.43m)
Height 2	37.50 in	(0.95m)
Weight	71,097 lb	(32 250kg)



Side Frames

Side Frames ②

Length	25 ft 0.75 in	(7.64m)
Width	44 in	(1.12m)
Height	52.75 in	(1.34m)
Weight	34,649 lb	(15 717kg)

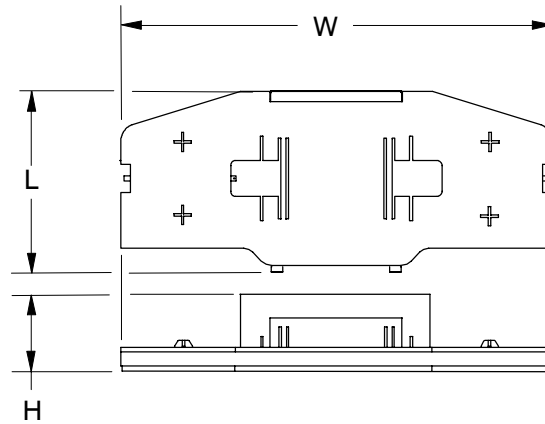


Number inside black circle “①” = # of components

Upper Counterweights

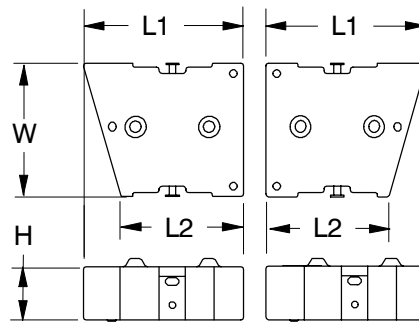
“A” Slab Counterweight ①

Length	5 ft 9.50 in	(1.77m)
Width	15 ft 2 in	(4.62m)
Height	32.25 in	(0.82m)
Weight	14,000 lb	(6 350kg)



“A”, “B”, and “C” Wing Counterweights ⑥

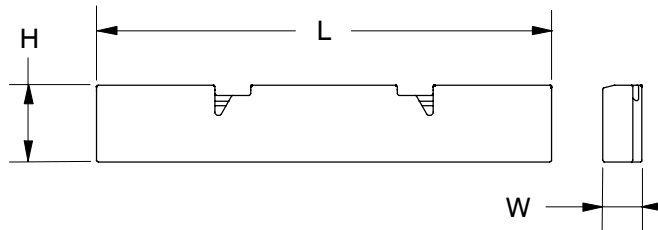
Length 1	61 in	(1.55m)
Length 2	46.50 in	(1.18m)
Width	50.75 in	(1.29m)
Height	20.25 in	(51.44cm)
Weight	13,000 lb	(5 897kg)



Lower Counterweights

Side Frame Counterweights ②

Length	16 ft 8 in	(5.08m)
Width	17.50 in	(44.45cm)
Height	33.75 in	(0.86m)
Weight	24,000 lb	(10 886kg)



Number inside black circle “①” = # of components

Boom/Luffing Boom

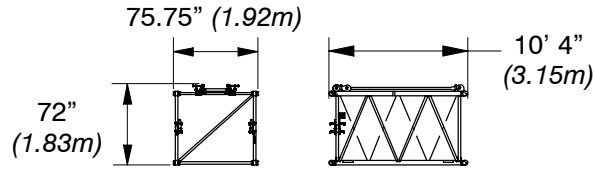
70 in (1.78m) x 62 in (1.57m)

Boom/Luffing Boom Extensions

Weights Include Pendants and Hardware

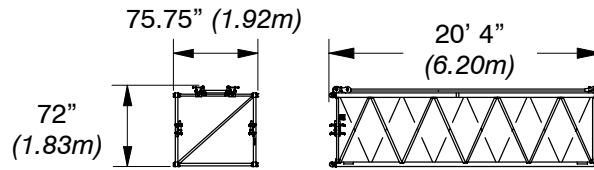
10 ft (3.05m) Extension

Weight: 1,056 lb (479kg)



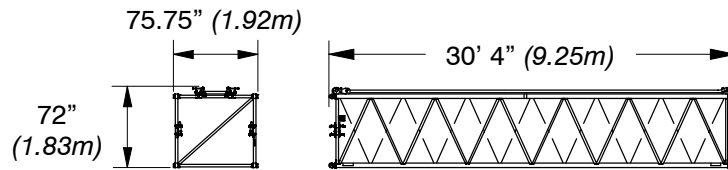
20 ft (6.10m) Extension

Weight: 1,778 lb (807kg)



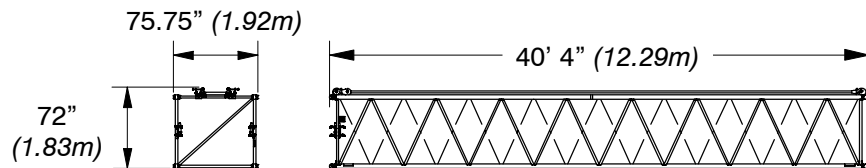
30 ft (9.14m) Extension

Weight: 2,482 lb (1 126kg)



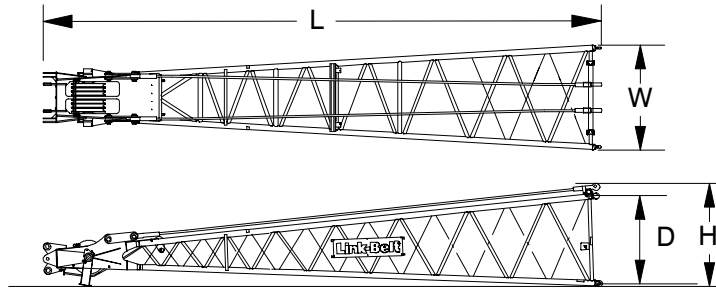
40 ft (12.19m) Extension

Weight: 3,177 lb (1 441kg)



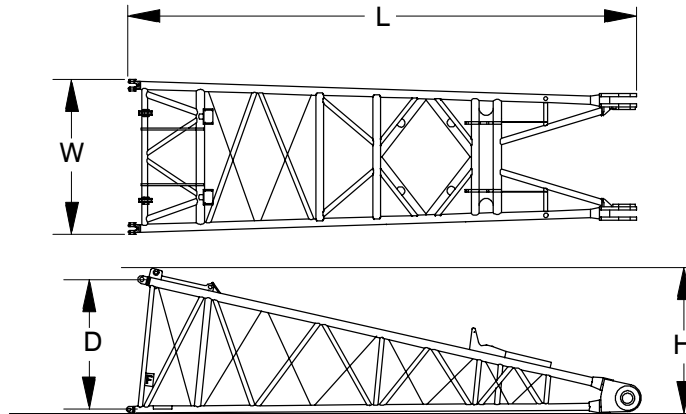
30 ft (9.14m) Boom Top Section ①

Length	32 ft 10 in	(10.01m)
Width	75.75 in	(1.92m)
Deep	62 in	(1.57m)
Height	75 in	(1.91m)
Weight	4,148 lb	(1 882kg)



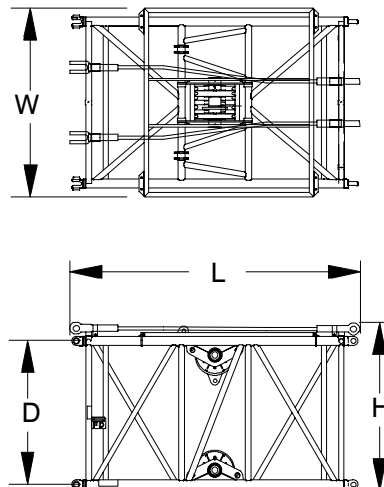
20 ft (6.10m) Boom Base Section ①

Length	20 ft 8 in	(6.30m)
Width	75.75 in	(1.92m)
Deep	62 in	(1.57m)
Height	69 in	(1.75m)
Weight	3,350 lb	(1 520kg)



10 ft (3.05m) Self Assembly Section* ①

Length	10 ft 4 in	(3.15m)
Width	81.50	(2.07m)
Deep	70.00	(1.78m)
Height	73.25	(1.86m)
Weight	2,717 lb	(828kg)

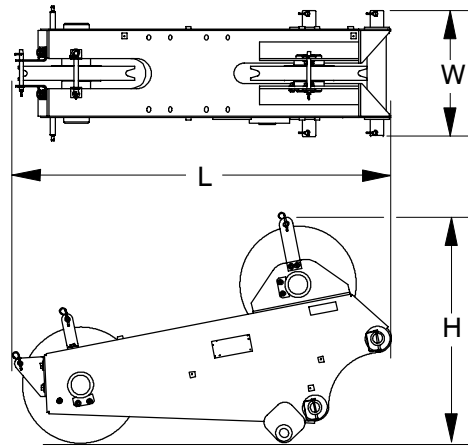


Number inside black circle “①” = # of components

* – Optional equipment

5 ft (1.52m) Auxiliary Tip Extension* ①

Length	70.35 in	(1.79m)
Width	24.50 in	(0.62m)
Height	42.91 in	(1.09m)
Weight	671 lb	(304kg)

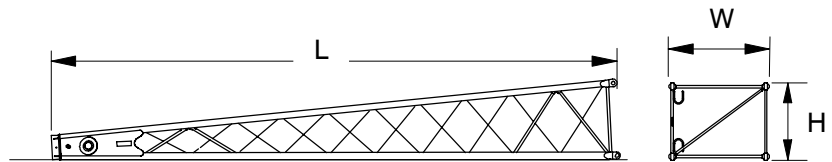


Jib/Luffing Jib

15 ft (4.57m) Jib Top Section* ①

Length	16 ft 1.50 in	(4.91m)
Width	34.50 in	(0.88m)
Height	26.50 in	(0.67m)
Weight†	604 lb	(274kg)

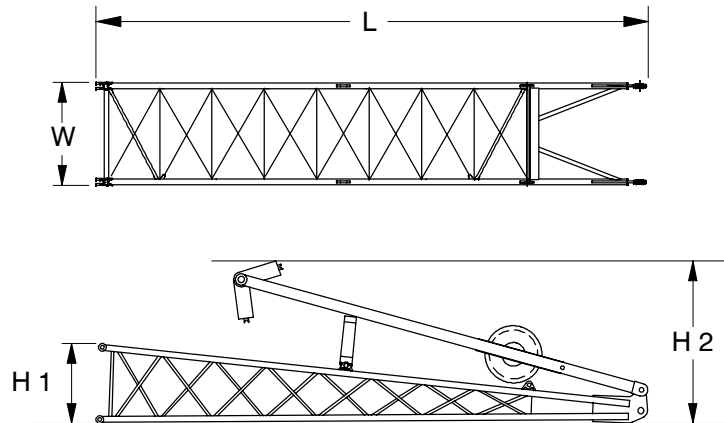
† Weight includes pendants and hardware.



15 ft (4.57m) Jib Base Section* ①

Length	15 ft 3.50 in	(4.66m)
Width	34.50 in	(0.88m)
Height 1	26.50 in	(0.67m)
Height 2	54.50 in	(1.38m)
Weight†	1,106 lb	(502kg)

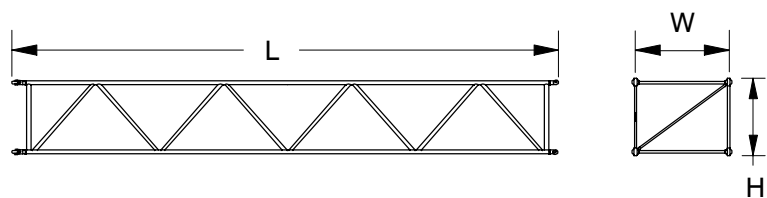
† Weight includes pins, basic frontstay & backstay pendants, and hardware.



15 ft (4.57m) Jib Extension* ①

Length	15 ft 2.50 in	(4.64m)
Width	34.50 in	(0.88m)
Height	26.50 in	(0.67m)
Weight†	330 lb	(150kg)

† Weights includes pins, pendants, and hardware.



Number inside black circle “①” = # of components

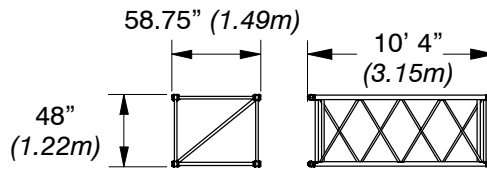
* – Optional equipment

Luffing Jib Extensions*

Weights Include Pendants and Hardware

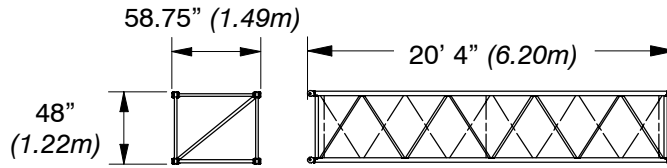
10 ft (3.05m) Extension

Weight: 550 lb (249kg)



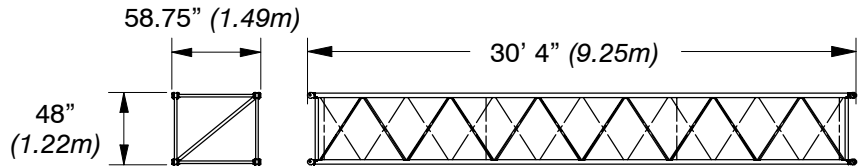
20 ft (6.10m) Extension

Weight: 1,100 lb (499kg)



30 ft (9.14m) Extension

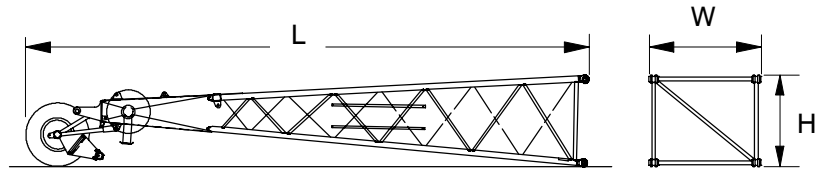
Weight: 1,650 lb (748kg)



15 ft (4.57m) Luffing Jib Top Section* ①

Length	24 ft 8.25 in	(7.52m)
Width	58.75 in	(1.49m)
Height	48 in	(1.22m)
Weight†	2,800 lb	(1 270kg)

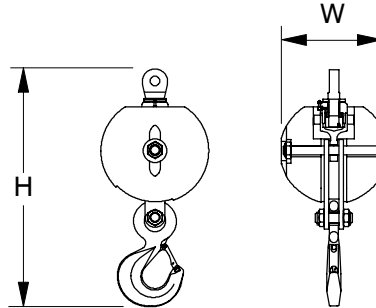
† Weight includes pendants and hardware.



Hook Balls

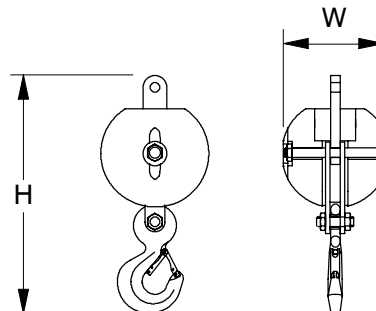
15 Ton (13.6mt) Swivel Hook Ball* ①

Width	17.50 in	(0.44m)
Height	40.50 in	(1.03m)
Weight	767 lb	(348kg)



15 Ton (13.6mt) Non-Swivel Hook Ball* ①

Width	18 in	(0.46m)
Height	39.50 in	(1.00m)
Weight	748 lb	(339kg)



Number inside black circle “①” = # of components

* – Optional equipment

Hook Blocks

25 Ton (22.7mt)

2–Sheave Hook Block* ①

Width1	12.50 in	(0.32m)
Width2	22.75 in	(0.58m)
Width3	11.00 in	(0.28m)
Height	40.50 in	(1.03m)
Weight	466 lb	(211kg)

40 Ton (36.3mt)

2–Sheave Hook Block* ①

Width1	17.25 in	(0.44m)
Width2	24.75 in	(0.63m)
Width3	15.00 in	(0.38m)
Height	51.50 in	(1.31m)
Weight	1,395 lb	(633kg)

60 Ton (54.4mt)

2–Sheave Hook Block* ①

Width1	16.25 in	(0.41m)
Width2	22.00 in	(0.56m)
Width3	19.50 in	(0.50m)
Height	57.00 in	(1.45m)
Weight	1,400 lb	(635kg)

125 Ton (113.4mt)

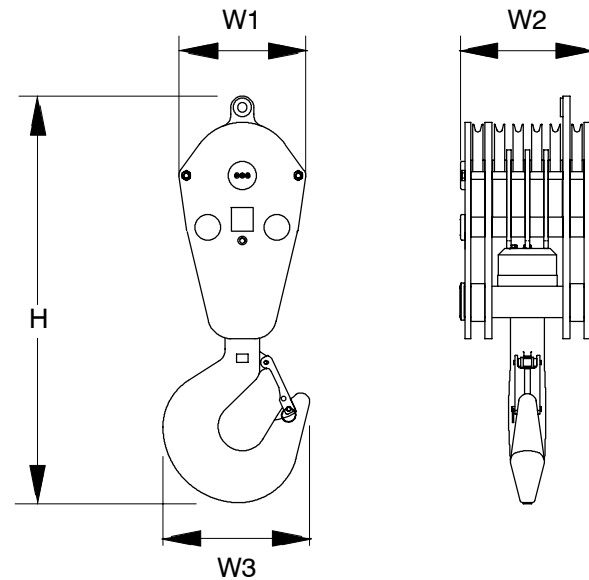
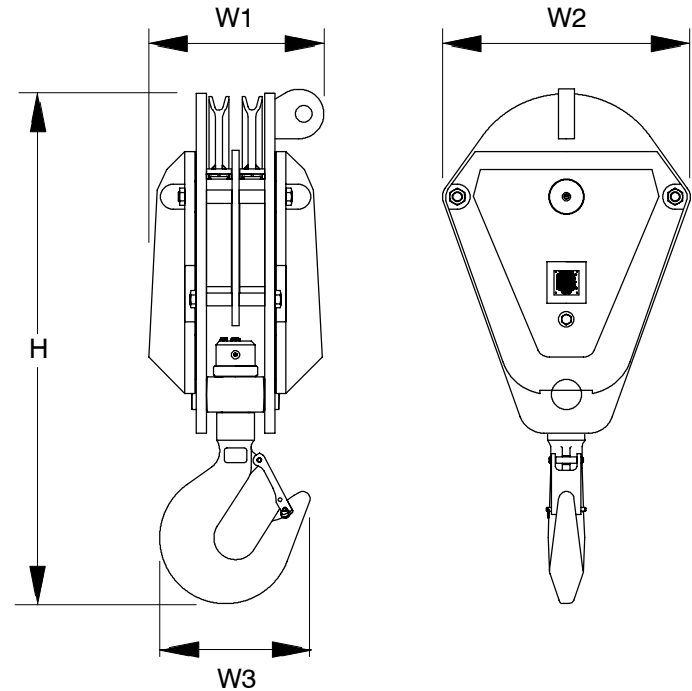
6–Sheave Hook Block* ①

Width1	22.50 in	(0.57m)
Width2	23.50 in	(0.60m)
Width3	26.00 in	(0.66m)
Height	72.00 in	(1.83m)
Weight	2,580 lb	(1 170kg)

140 Ton (127.0mt)

6–Sheave Hook Block* ①

Width1	22.25 in	(0.57m)
Width2	23.25 in	(0.59m)
Width3	26.00 in	(0.66m)
Height	72.25 in	(1.83m)
Weight	2,340 lb	(1 061kg)



Number inside black circle “①” = # of components

* – Optional equipment

Working Weights

Based on basic crane including Mitsubishi 6D24-TLA2L diesel engine, turntable bearing, independent hydraulic powered drums, boom hoist limiting device, independent hydraulic swing and travel, counterweight, swing brake, drum rotation indicators, and crawler lower with 44 in (1.12m) wide track shoes, sealed track rollers, catwalks, hydraulic boom foot pin removal, plus the following:	Ctwt "A"	Ctwt "AB"	Ctwt "ABC" + "A" Lower Ctwt	
	lb (kg)	lb (kg)	lb (kg)	
Lifting crane – includes 50 ft (15.24m) basic tubular boom, 26 ft (7.92m) live mast, 950 ft (289.56m) of 7/8 in (22mm) diameter wire rope, 500 ft (152.40m) of 7/8 in (22mm) diameter boom hoist rope, 125 Ton (113.4mt) hook block, and basic pendants.	187,717 (85 148)	213,717 (96 942)	287,717 (130 508)	
Ground Bearing Pressure	psi	7.81	8.91	12.05
	kg/cm ²	0.55	0.63	0.85

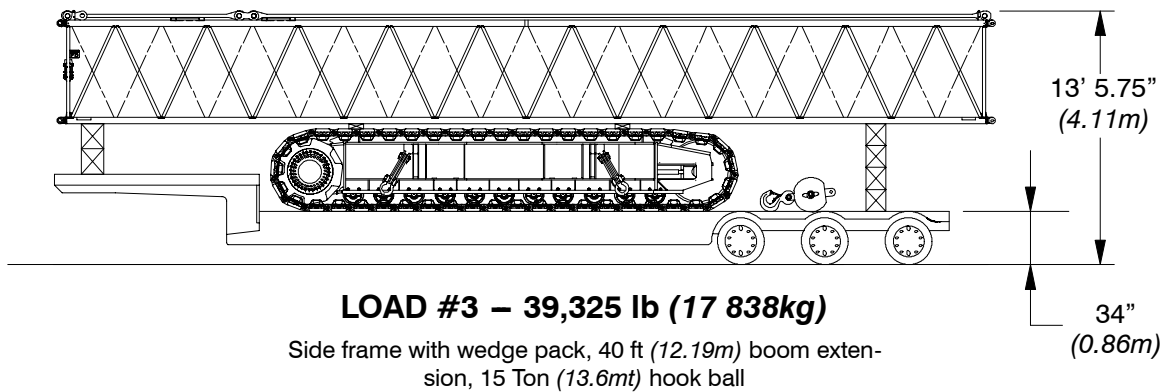
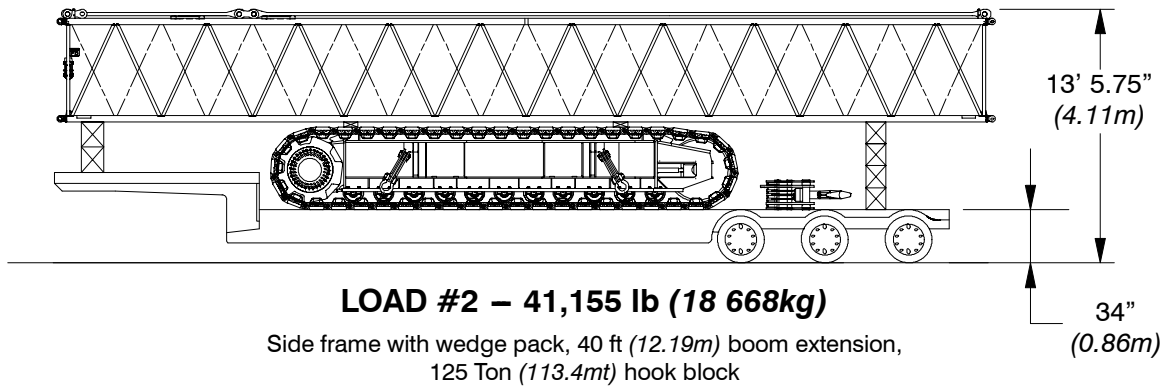
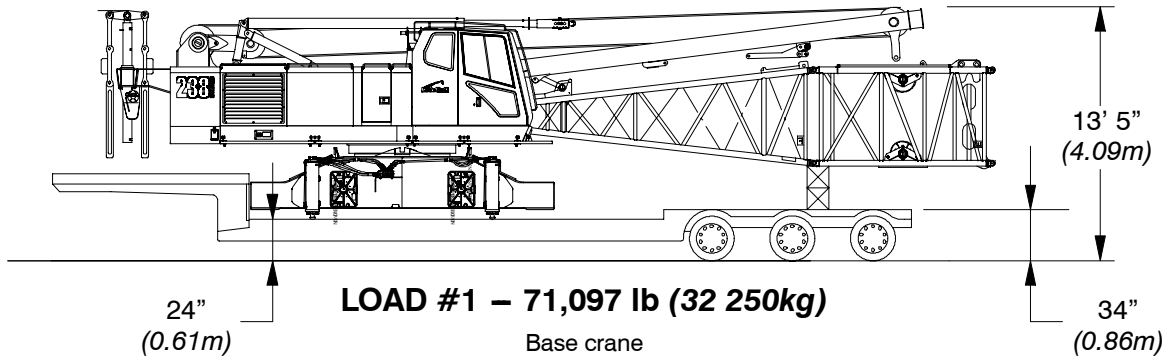
Transport Weights

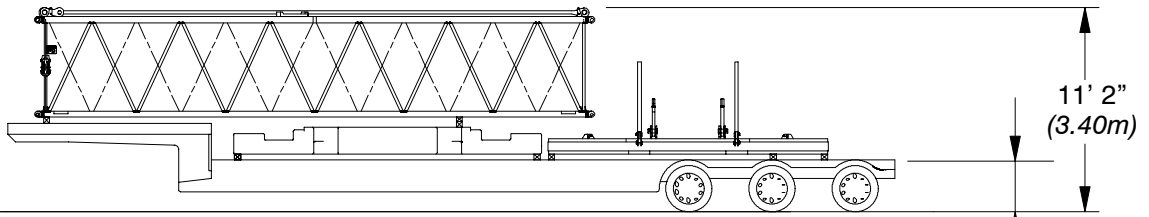
Base Crane: Rigid boom backstops, 77 gal (291L) of fuel, catwalks (both sides), 26 ft (7.92m) live mast, bail, boom hoist rope, boom base section, 10 ft (3.05m) self-assembly section, 950 ft (289.56m) of type "DB" front hoist rope, and 600 ft (182.88m) of type "RB" rear hoist rope.

Item Description	Gross Weight		Transport Loads						
	lb	(kg)	#1	#2	#3	#4	#5	#6	#7
Base Crane	71,097	32 250	1						
Add Side Frame with Wedge Packs – Two Required	34,649	15 717		1	1				
Add "A" Base Counterweight	14,000	6 350				1			
Add "A" Wing Counterweight – Two Required	13,000	5 897						1	1
Add "B" Wing Counterweight – Two Required	13,000	5 897						1	1
Add "C" Wing Counterweight – Two Required	13,000	5 897						1	1
Add "A" Lower Counterweight – Two Required	24,000	10 886				1	1		
Add Hydraulic Third Drum without Rope	2,000	907							
Add 30 ft (9.14m) Top Section	4,742	2 151							1
Add 10 ft (3.05m) Extension w/Pins and Pendants	1,056	479					1		
Add 20 ft (6.10m) Extension w/Pins and Pendants	1,778	807					1		
Add 30 ft (9.14m) Extension w/Pins and Pendants	2,482	1 126				1			
Add 40 ft (12.19m) Extension w/Pins and Pendants	3,177	1 441		1	1			1	
Add 30 ft (9.14m) Jib	1,710	775					1		
Add 15 ft (4.57m) Jib Extension w/Pins and Pendants	330	150					3		
Add 5 ft (1.52m) Auxiliary Tip Extension	671	304							
Add 15 Ton (13.6mt) Hook Ball (Non-swivel)	748	339			1				
Add 15 Ton (13.6mt) Hook Ball (Swivel)	767	348							
Add 125 Ton (113.4mt) Six-sheave Hook Block	2,580	1 170		1					
Remove 10 ft (3.05m) Self-Assembly Section	-3,735	1 694							
Remove 20 ft (6.10m) Base Section	-3,350	1 520							
Remove Main Hoist Rope	-1,349	-612							
Remove Rear Drum Auxiliary Wire Rope	-900	-408							
Remove 50 gal (189L) of Fuel	-362	-164							
Approximate Total Shipping Weight	lb		71,097	41,155	39,325	40,482	29,495	42,177	43,742
	kg		32 250	18 668	17 838	18 362	13 379	19 131	19 841

Notes:
 Estimated weights vary by +/- 2%. Numbers in the load columns (numbers 1 – 7) represent quantities.
 Estimated transport loads assume the load out consist of 240 ft (73.15m) of boom and 75 ft (22.86m) of jib and full counterweight.
 Support loads were targeted at 45,000 lb (20 412kg), 8.5 ft (2.59m) wide, and 48 ft (14.63m) long trailer. This may vary depending on state laws, empty truck/trailer weights, and style of trailer.

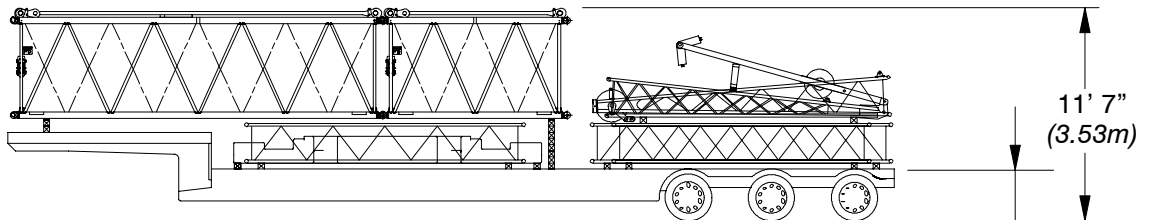
Transport Drawings





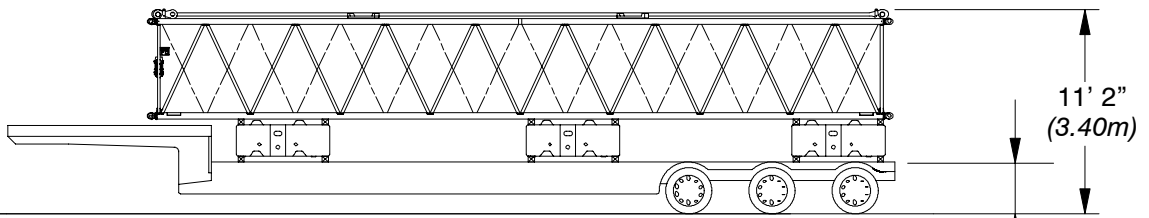
LOAD #4 – 40,482 lb (18 362kg)

“A” base counterweight, 1 of 2 lower counterweights, and 30 ft (9.14m) boom extension with pins and pendants



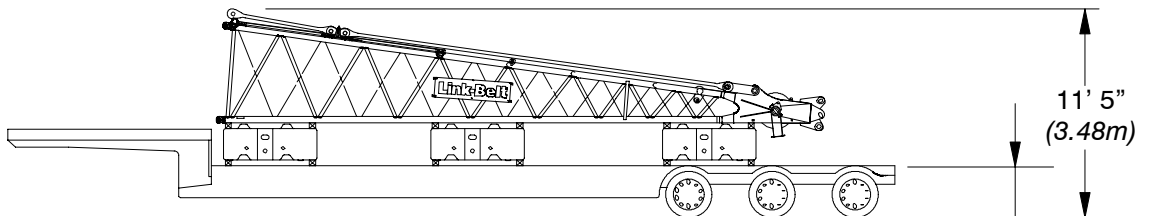
LOAD #5 – 29,495 lb (13 379kg)

Lower counterweight, 10 ft (3.05m) boom extension with pins and pendants, 20 ft (6.10m) boom extension with pins and pendants, 30 ft (4.57m) jib, and three 15 ft (4.57m) jib extensions



LOAD #6 – 42,177 lb (19 131kg)

“A” wing counterweight, “B” wing counterweight, “C” wing counterweight, and 40 ft (12.14m) boom extension with pins and pendants



LOAD #7 – 43,742 lb (19 841kg)

“A” wing counterweight, “B” wing counterweight, “C” wing counterweight, and 30 ft (9.14m) top section

Load Hoist Performance

Front Drum – 7/8 in (22mm) Wire Rope

Rope Layer	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	40,036	18 160	277	84.4	126	38.4	17.6	447	111	33.8	111	33.8
2	36,396	16 509	305	93.0	139	42.4	19.4	493	121	36.9	232	70.7
3	33,363	15 133	332	101.2	151	46.0	21.2	538	131	39.9	363	110.6
4	30,797	13 970	360	109.7	164	50.0	22.9	582	141	43.0	503	153.3
5	28,597	12 972	388	118.3	177	53.9	24.7	627	151	46.0	654	199.3
6	26,690	12 107	416	126.8	189	57.6	26.5	673	161	49.1	815	248.4
7	25,022	11 350	443	135.0	202	61.6	28.2	716	171	52.1	986	300.5
8	---	---	---	---	---	---	29.9	759	181	55.2	1,167	355.7

Rear Drum – 7/8 in (22mm) Wire Rope

Rope Layer	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	24,709	11 208	449	136.9	183	55.8	17.6	447	111	33.8	111	33.8
2	22,463	10 189	494	150.6	202	61.6	19.4	493	121	36.9	232	70.7
3	20,591	9 340	539	164.3	220	67.1	21.2	538	131	39.9	363	110.6
4	19,007	8 622	584	178.0	238	72.5	22.9	582	141	43.0	503	153.3
5	17,649	8 006	628	191.4	257	78.3	24.7	627	151	46.0	654	199.3
6	16,473	7 472	673	205.1	275	83.8	26.5	673	161	49.1	815	248.4
7	15,443	7 005	718	218.8	293	89.3	28.2	716	171	52.1	986	300.5
8	---	---	---	---	---	---	29.9	760	181	55.2	1,167	355.7

Boom Hoist Drum – 7/8 in (22mm) Wire Rope

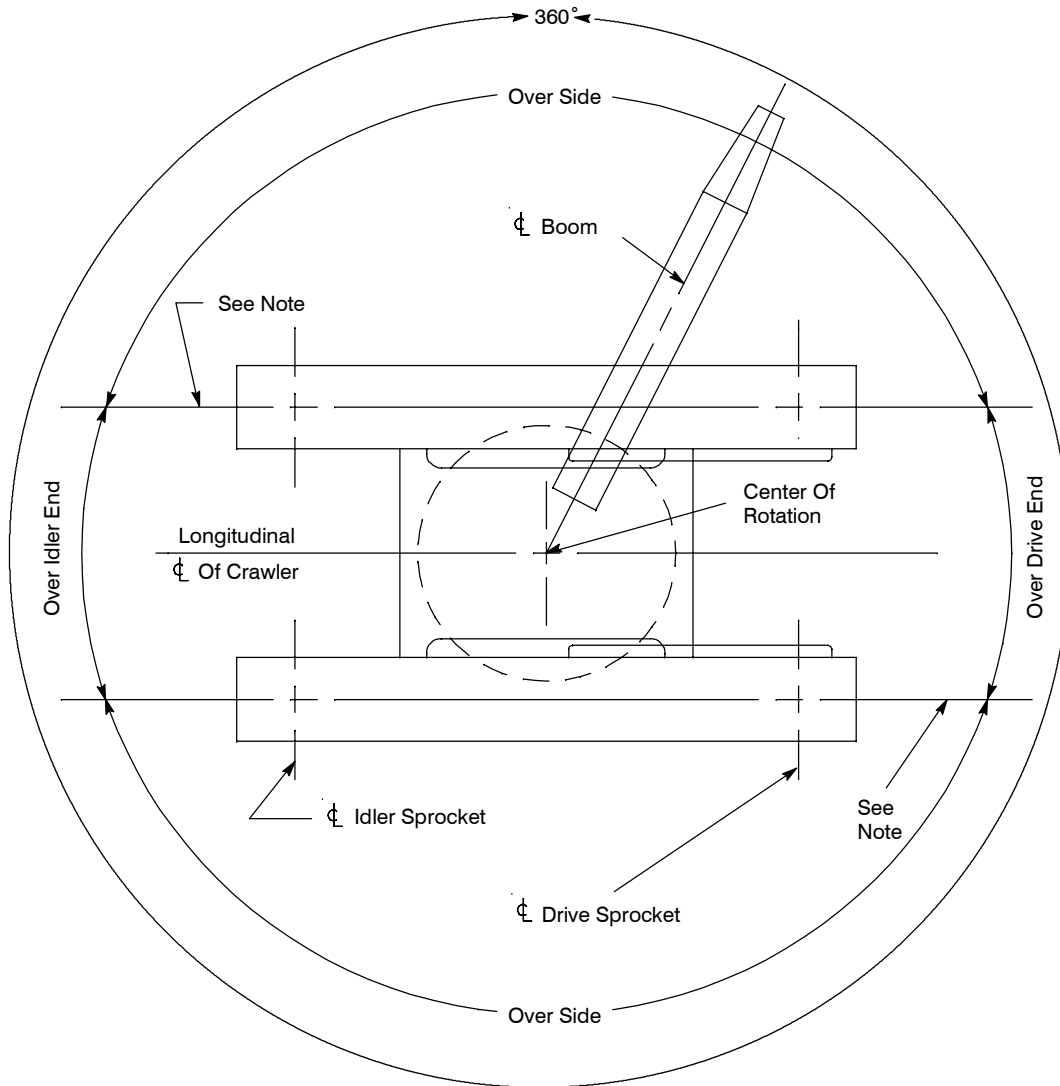
Rope Layer	Maximum Line Pull		No Load Line Speed		Full Load Line Speed		Pitch Diameter		Layer		Total	
	lb	kg	ft/min	m/min	ft/min	m/min	in	mm	ft	m	ft	m
1	38,496	17 462	132	40.2	116	35.4	15.9	404	50	15.2	50	15.2
2	34,647	15 716	146	44.5	129	39.3	17.6	447	55	16.8	105	32.0
3	31,497	14 287	161	49.1	142	43.3	19.4	493	60	18.3	165	50.3
4	28,872	13 096	176	53.6	155	47.2	21.2	538	65	19.8	229	69.8
5	26,651	12 089	190	57.9	168	51.2	22.9	582	70	21.3	299	91.1
6	24,748	11 226	205	62.5	181	55.2	24.7	627	75	22.9	374	114.0
7	23,098	10 477	220	67.1	194	59.1	26.5	673	80	24.4	454	138.4

Third Drum – 7/8 in (22mm) Wire Rope

Rope Layer	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	20,555	9 324	272	82.9	242	73.8	20.5	521	134	40.8	134	40.8
2	18,933	8 588	295	89.9	263	80.2	22.2	564	145	44.2	279	85.0
3	17,552	7 962	318	96.9	284	86.6	24.0	610	156	47.5	435	132.6
4	16,359	7 420	341	103.9	304	92.7	25.7	653	168	51.2	603	183.8
5	15,318	6 948	365	111.3	325	99.1	27.5	699	179	54.6	782	238.4

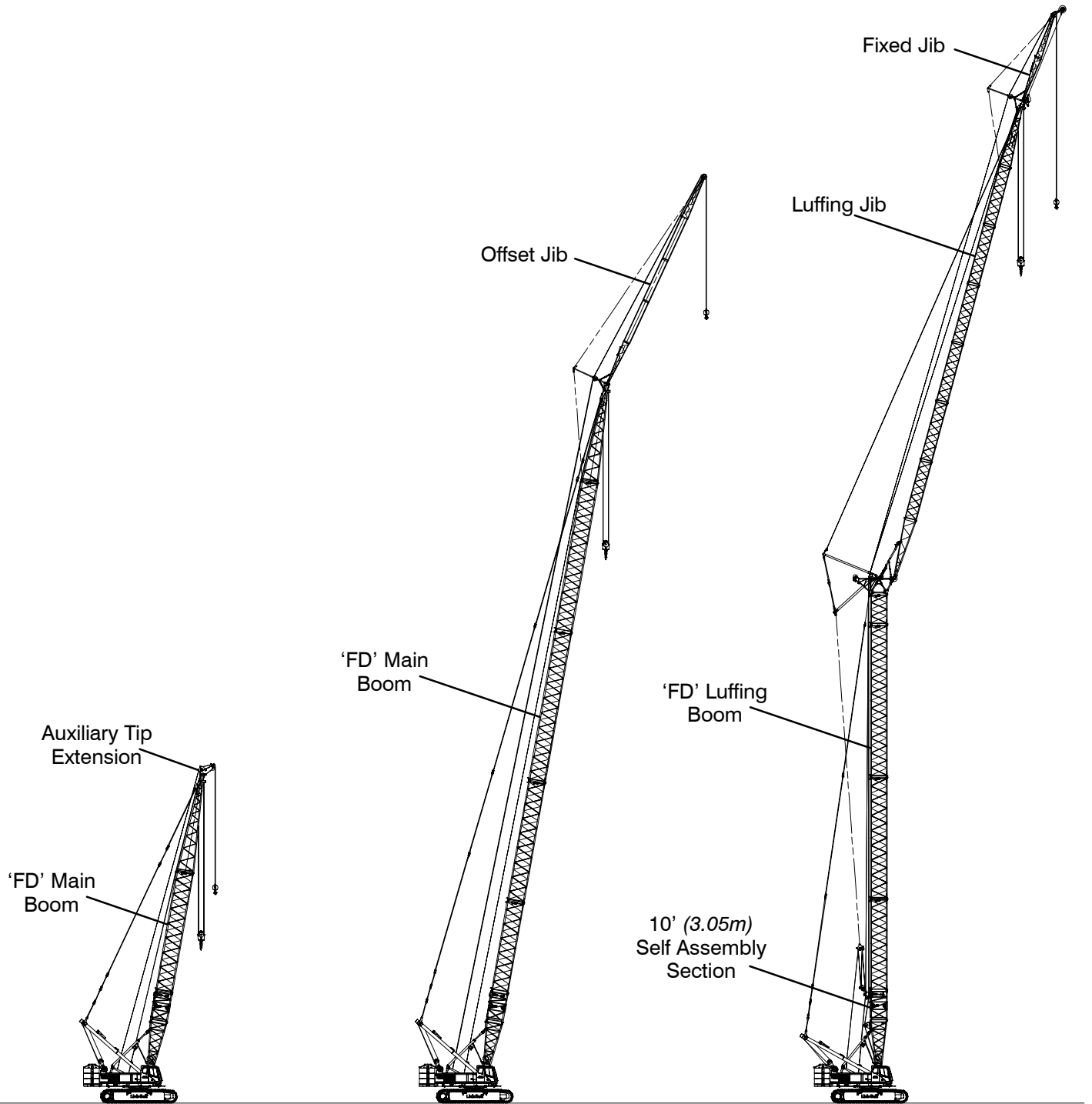
Wire Rope Application	Diameter		Type	Max. Permissible Load		Wire Rope Descriptions
	in	mm		lb	kg	
Boom Hoist	7/8	22	FC	28,900	13 109	6 Strand, Compacted Strand, Swaged, Preformed, I.W.R.C., Right Lay, Regular Lay
Front Hoist	7/8	22	DB	22,700	10 297	6 X 26 (6 X 19 Class), Warrington Seale, E.I.P.S., Preformed, Right Regular Lay, I.W.R.C.
Third Drum (Optional)	7/8	22	RB	17,520	7 947	19 X 19 Rotation Resistant Compacted Strand – High Strength – Preformed, Right Regular Lay
Rear Drum	7/8	22	RB	17,520	7 947	19 X 19 Rotation Resistant Compacted Strand – High Strength – Preformed, Right Regular Lay

Working Areas



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

Attachments



**50–260 ft (15.24–79.25m)
Main Boom With 5 ft (1.5m)
Tip Extension**

**50–230 ft (15.24–70.10m)
Main Boom With 30–75 ft
(9.14–22.86m) Offset Jib**

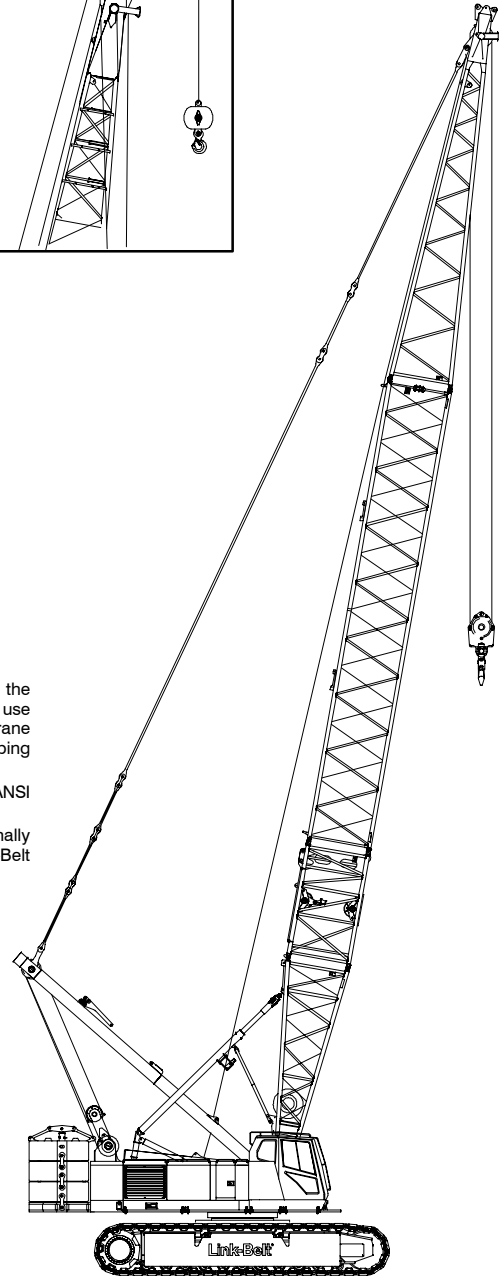
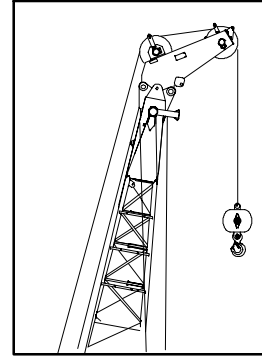
**85–165 ft (25.91–50.29m) Luffing Boom
+ 80–160 ft (24.38–48.77m) Luffing Jib
With 30 ft (9.14m) Fixed Jib**

Main Boom Make-up

Boom Length ft (m)	Boom Extensions ft (m)				
	Self Assy Section*	10 (3.05)	20 (6.14)	30 (9.10)	40 (12.19)
60 (18.29)	1	1			
70 (21.34)	1	2			
80 (24.38)	1	1	1		
90 (27.43)	1	1		1	
100 (30.48)	1	1			1
110 (33.53)	1	2			1
120 (36.58)	1	1	1		1
130 (39.62)	1	1		1	1
140 (42.67)	1	1			2
150 (45.72)	1	2			2
160 (48.77)	1	1	1		2
170 (51.82)	1	1		1	2
180 (54.86)	1	1			3
190 (57.91)	1	2			3
200 (60.96)	1	1	1		3
210 (64.01)	1	1		1	3
220 (67.06)	1	2		1	3
230 (70.10)	1	1	1	1	3
240 (73.15)	1	2	1	1	3
250 (76.20)	1	1	2	1	3
260 (79.25)	1	2	2	1	3

* 10 ft (3.05m) self assembly section.

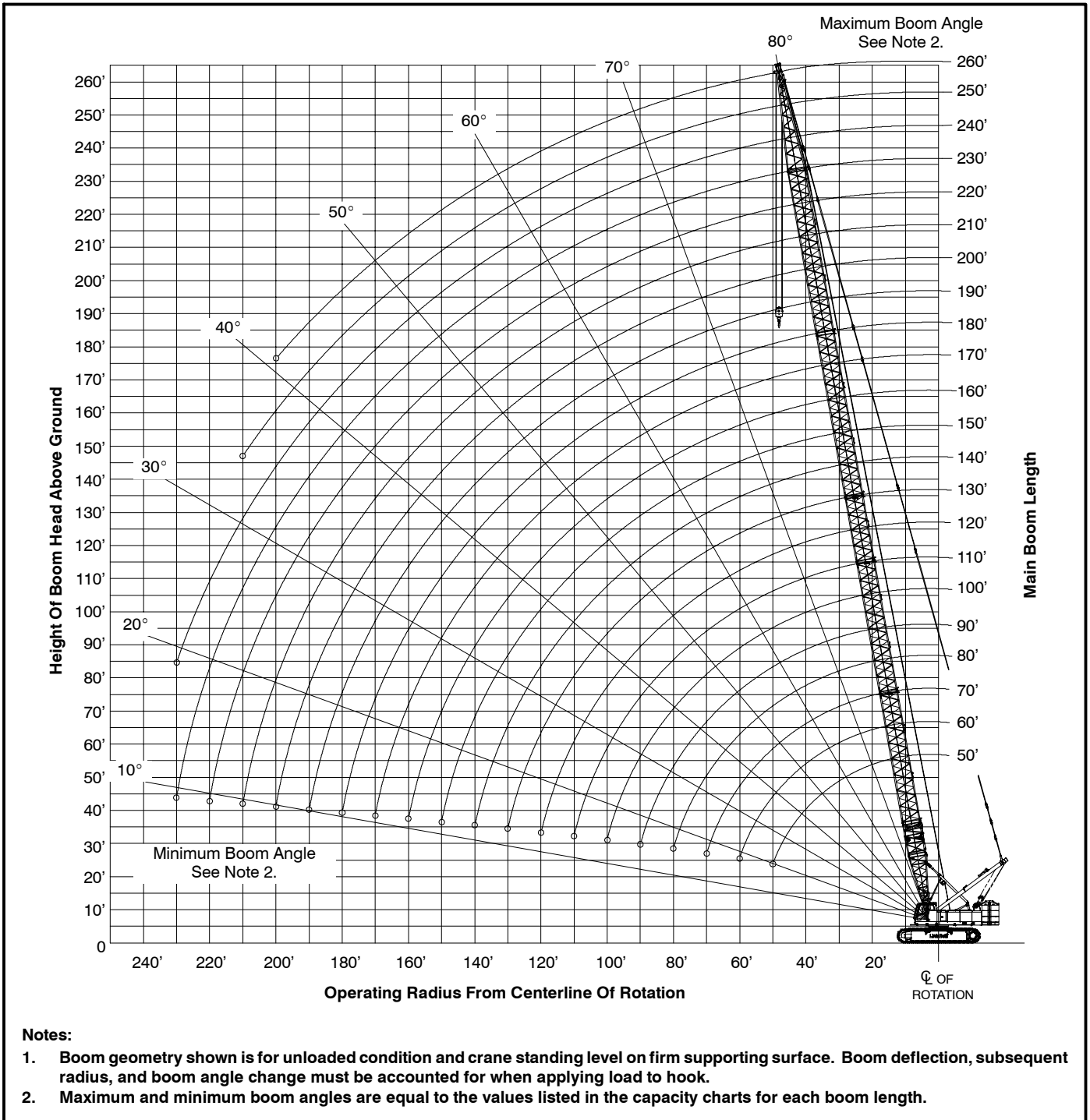
Optional 5 ft (1.5m) Auxiliary Tip Extension



Notes:

- Capacities shown are in kips/metric tons (1 kip = 1,000 lb / 1 metric ton = 0.45 kips) 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 or tip extension is attached, reduce capacities by values shown in Crane Rating Manual. See Operator's Manual for all limitations when raising or lowering attachment.
- The capacities in the shaded areas are based on structural strength. The capacities in the non-shaded areas are based on stability ratings.
- For recommended reeving, parts of line, wire rope type, and wire rope inspection, see Wire Rope Capacity Chart, Operator's Manual, and Parts Manual.
- Load ratings 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. Refer to the Crane Rating Manual for Wind Speed Restrictions.
- The 26 ft (7.92m) live mast must be used for all capacities listed.
- The least stable rated condition is over the side.
- Booms must be erected and lowered over the end for maximum stability.
- Main boom length must not exceed 260 ft (79.25m).
- Do not operate at radii and boom lengths where the Crane Rating Manual lists no capacity. Do not use longer booms or jibs than those listed in the Crane Rating Manual. Any of the above can cause a tipping condition, or boom and jib failure.
- These capacities are in compliance with ASME/ANSI B30.5 at date of manufacture.
- These capacities apply only to the crane as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.

Main Boom Working Range Diagram



Main Boom Load Chart

Main Boom Lift Capacity Chart – 360° Rotation – ABC+A Counterweight
 [All capacities are listed in kips (mt)]

Load Radius (ft)	Boom Length ft (m)											
	50 (15.2)	70 (21.3)	90 (27.4)	110 (33.5)	130 (39.6)	150 (45.7)	170 (51.8)	190 (57.9)	210 (64.0)	230 (67.1)	250 (76.2)	260 (79.2)
12 (3.7)	270.0 (122.5)											
13 (4.0)	263.5 (119.5)											
14 (4.3)	250.9 (113.8)											
15 (4.6)	239.4 (108.6)											
16 (4.9)	228.9 (103.8)	226.4 (102.7)										
17 (5.2)	219.2 (99.4)	216.9 (98.4)										
18 (5.5)	210.3 (95.4)	208.1 (94.4)										
19 (5.8)	202.0 (91.6)	199.9 (90.7)	193.1 (87.6)									
20 (6.1)	193.8 (87.9)	192.4 (87.3)	190.7 (86.5)									
25 (7.6)	153.2 (69.5)	154.8 (70.2)	154.1 (69.9)	153.0 (69.4)								
30 (9.1)	122.6 (55.6)	123.3 (55.9)	123.6 (56.1)	123.6 (56.1)	123.5 (56.0)	111.4 (50.5)						
35 (10.7)	99.0 (44.9)	99.3 (45.0)	99.5 (45.1)	99.5 (45.1)	99.3 (45.0)	99.1 (45.0)	93.5 (42.4)					
40 (12.2)	82.6 (37.5)	82.9 (37.6)	83.0 (37.7)	82.9 (37.6)	82.7 (37.5)	82.4 (37.4)	82.2 (37.3)	73.8 (33.5)	58.3 (26.4)			
50 (15.2)	54.5 (24.7)	61.7 (28.0)	61.8 (28.0)	61.6 (27.9)	61.4 (27.9)	61.1 (27.7)	60.7 (27.5)	60.3 (27.4)	56.1 (25.5)	44.1 (20.0)	35.8 (16.2)	32.3 (14.7)
60 (18.3)		48.6 (22.0)	48.7 (22.1)	48.5 (22.0)	48.2 (21.9)	47.9 (21.7)	47.5 (21.6)	47.1 (21.4)	46.7 (21.2)	40.2 (18.2)	32.2 (14.6)	29.1 (13.2)
70 (21.3)		39.6 (18.0)	39.8 (18.1)	39.6 (18.0)	39.3 (17.8)	39.0 (17.7)	38.6 (17.5)	38.2 (17.3)	37.7 (17.1)	36.2 (16.4)	29.0 (13.2)	26.2 (11.9)

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.

Main Boom Lift Capacity Chart (Continued) – 360° Rotation – ABC+A Counterweight

[All capacities are listed in kips (mt)]

Load Radius (ft)	Boom Length ft (m)									
	90 (27.4)	110 (33.5)	130 (39.6)	150 (45.7)	170 (51.8)	190 (57.9)	210 (64.0)	230 (67.1)	250 (76.2)	260 (79.2)
80 (24.4)	33.3 (15.1)	33.2 (15.1)	32.9 (14.9)	32.5 (14.7)	32.1 (14.6)	31.7 (14.4)	31.2 (14.2)	30.8 (14.0)	26.1 (11.8)	23.5 (10.7)
90 (27.4)	28.4 (12.9)	28.3 (12.8)	28.0 (12.7)	27.7 (12.6)	27.2 (12.3)	26.8 (12.2)	26.3 (11.9)	25.8 (11.7)	23.5 (10.7)	20.6 (9.3)
100 (30.5)		24.5 (11.1)	24.2 (11.0)	23.8 (10.8)	23.4 (10.6)	23.0 (10.4)	22.5 (10.2)	22.0 (10.0)	20.1 (9.1)	18.2 (8.3)
110 (33.5)		21.3 (9.7)	21.1 (9.6)	20.8 (9.4)	20.3 (9.2)	19.9 (9.0)	19.4 (8.8)	18.9 (8.6)	17.4 (7.9)	15.6 (7.1)
120 (36.6)			18.6 (8.4)	18.2 (8.3)	17.8 (8.1)	17.3 (7.9)	16.8 (7.6)	16.3 (7.4)	14.9 (6.8)	13.3 (6.0)
130 (39.6)			16.4 (7.4)	16.1 (7.3)	15.7 (7.1)	15.2 (6.9)	14.7 (6.7)	14.2 (6.4)	12.8 (5.8)	11.3 (5.1)
140 (42.7)				14.2 (6.4)	13.9 (6.3)	13.4 (6.1)	12.9 (5.8)	12.4 (5.6)	11.0 (5.0)	9.5 (4.3)
150 (45.7)				12.6 (5.7)	12.3 (5.6)	11.8 (5.4)	11.4 (5.2)	10.9 (4.9)	9.3 (4.2)	8.0 (3.6)
160 (48.8)					10.9 (4.9)	10.5 (4.8)	10.0 (4.5)	9.5 (4.3)	7.9 (3.6)	6.6 (3.0)
170 (51.8)					9.7 (4.4)	9.3 (4.2)	8.8 (4.0)	8.3 (3.8)	6.6 (3.0)	5.4 (2.5)
180 (54.9)						8.2 (3.7)	7.7 (3.5)	7.0 (3.2)	5.4 (2.5)	4.3 (2.0)
190 (57.9)						6.9 (3.1)	6.6 (3.0)	5.9 (2.7)	4.4 (2.0)	3.3 (1.5)
200 (61.0)							5.5 (2.5)	4.9 (2.2)	3.4 (1.5)	2.4 (1.1)
210 (64.0)							4.4 (2.0)	3.9 (1.8)	2.6 (1.2)	
220 (67.1)								3.0 (1.4)		
230 (70.1)								2.1 (1.0)		

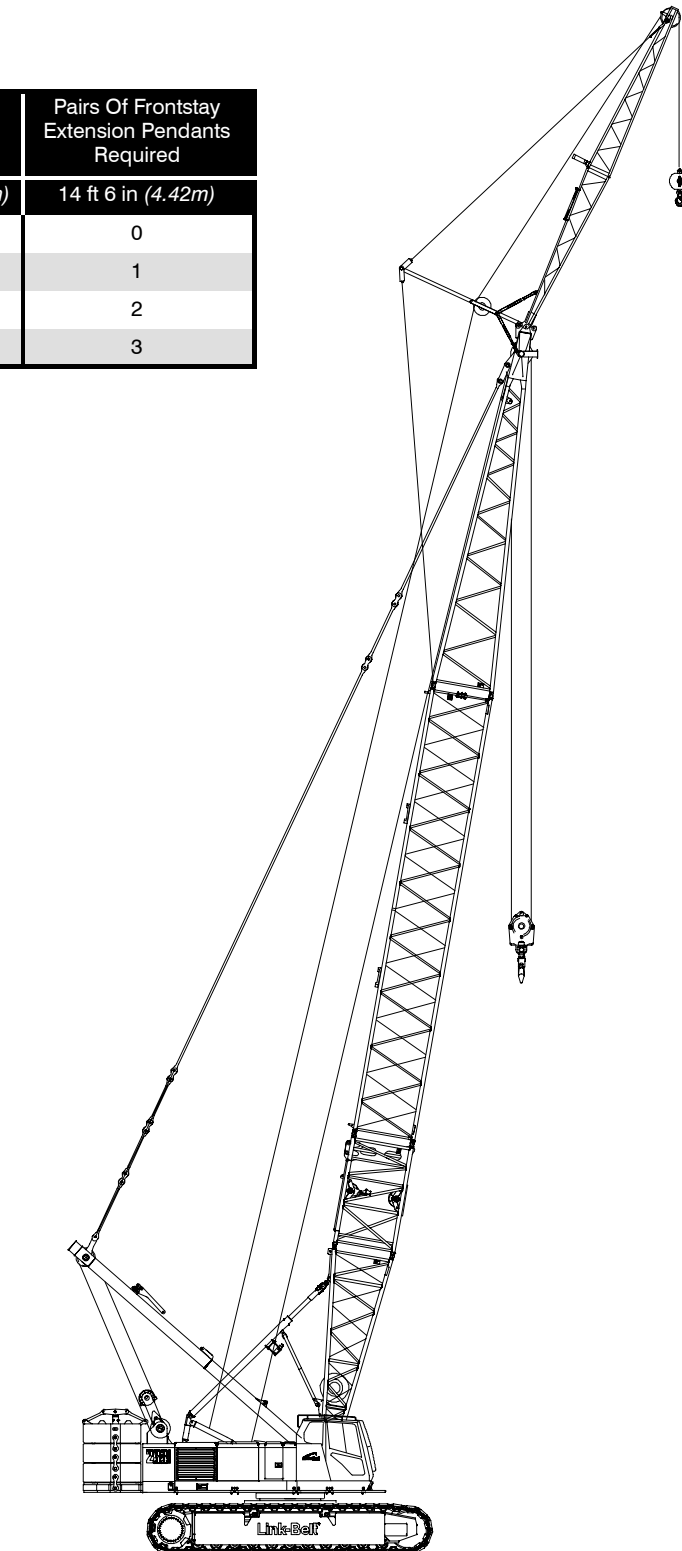
This material is supplied for reference use only. Operator must refer to in-cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly and operating procedures.

Jib Attachment Make-up

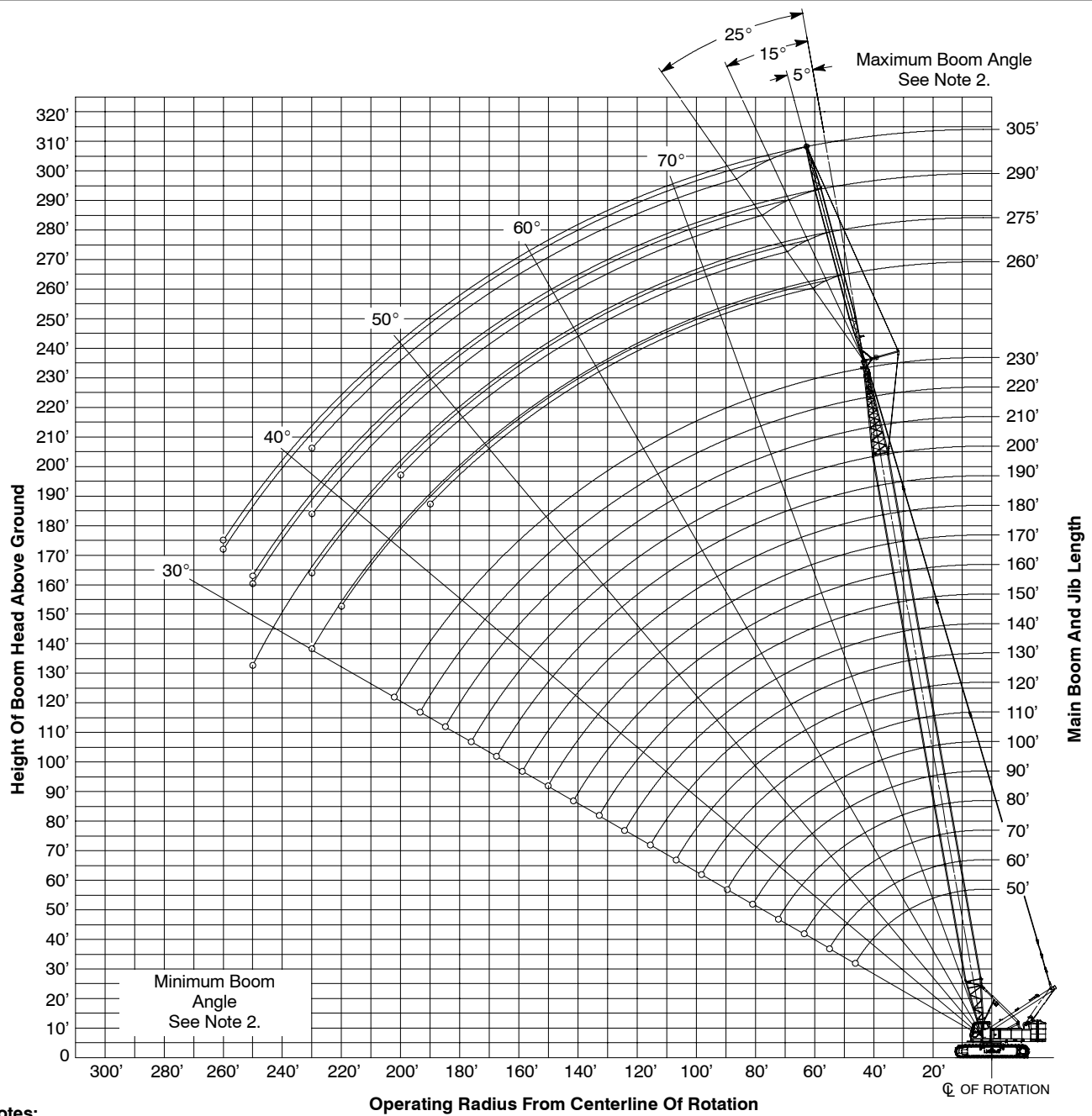
Jib Length ft (m)	Jib Extensions	Basic Frontstay Pendants Required	Pairs Of Frontstay Extension Pendants Required
	15 ft (4.57 m)	63 ft 5 in (19.33m)	14 ft 6 in (4.42m)
30 (9.15)	0	1	0
45 (13.72)	1	1	1
60 (18.29)	2	1	2
75 (22.86)	3	1	3

Notes:

1. Capacities shown are in kips/metric tons (1 kip = 1,000 lb / 1 metric ton = 0.45 kips) and are not more than 75% of the tipping loads with the crane standing level on a firm supporting surface.
2. A deduction must be made from these capacities for the weight of the main boom hook block or hook ball, jib hook block or hook ball, slings, grapples, load weighing devices, etc. When using main hook while jib is attached, reduce capacities by values shown in Crane Rating Manual. See Operator's Manual for all limitations when raising or lowering attachment.
3. The capacities in the shaded areas are based on structural strength. The capacities in the non-shaded areas are based on stability ratings.
4. Load ratings 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. Refer to the Crane Rating Manual for Wind Speed Restrictions.
5. These capacities are for "ABC+A" counterweight.
6. These capacities are for 360° working areas.
7. These capacities are for 30–75 ft (9.15–22.86m) jib lengths only.
8. The jib cannot be used on boom lengths over 230 ft (70.10m).
9. The least stable rated condition is over the side.
10. These capacities are in compliance with ASME/ANSI B30.5 at date of manufacture.
11. These capacities apply only to the crane as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.



Jib Attachment Working Range Diagram



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 charts for each boom and jib length.

Jib Attachment Load Charts

30 ft (9.14m) Offset Jib Length – 360° Rotation ABC + A Counterweight [92,000 lb (41.7mt) + 48,000 lb (21.8mt)] [All capacities are listed in kips (mt)]																	
5° Offset						15° Offset						25° Offset					
Load Radius ft (m)	Main Boom Length ft (m)					Load Radius ft (m)	Main Boom Length ft (m)					Load Radius ft (m)	Main Boom Length ft (m)				
	50 (15.2)	100 (30.5)	150 (45.7)	200 (61.0)	230 (70.1)		50 (15.2)	100 (30.5)	150 (45.7)	200 (61.0)	230 (70.1)		50 (15.2)	100 (30.5)	150 (45.7)	200 (61.0)	230 (70.1)
20 (6.1)	24.0 (10.9)					20 (6.1)	24.0 (10.9)					20 (6.1)					
30 (9.1)	24.0 (10.9)	24.0 (10.9)				30 (9.1)	23.9 (10.9)					30 (9.1)	22.6 (10.3)				
40 (12.2)	24.0 (10.9)	24.0 (10.9)	24.0 (10.9)			40 (12.2)	23.9 (10.9)	24.0 (10.9)				40 (12.2)	20.2 (9.2)	22.6 (10.3)			
50 (15.2)	24.0 (10.9)	24.0 (10.9)	24.0 (10.9)	24.0 (10.9)		50 (15.2)	22.3 (10.1)	24.0 (10.9)	24.0 (10.9)			50 (15.2)	17.4 (7.9)	20.8 (9.5)	22.4 (10.2)		
60 (18.3)	22.7 (10.3)	24.0 (10.9)	24.0 (10.9)	24.0 (10.9)	24.0 (10.9)	60 (18.3)	19.0 (8.6)	23.3 (10.6)	24.0 (10.9)	24.0 (10.9)	24.0 (10.9)	60 (18.3)	15.4 (7.0)	19.1 (8.7)	21.0 (9.5)	22.2 (10.1)	
70 (21.3)	19.3 (8.8)	24.0 (10.9)	24.0 (10.9)	24.0 (10.9)	24.0 (10.9)	70 (21.3)	16.7 (7.6)	22.6 (10.3)	24.0 (10.9)	24.0 (10.9)	24.0 (10.9)	70 (21.3)		17.6 (8.0)	19.7 (9.0)	21.1 (9.6)	21.7 (9.9)
80 (24.4)		23.6 (10.7)	24.0 (10.9)	24.0 (10.9)	24.0 (10.9)	80 (24.4)		21.1 (9.6)	22.9 (10.4)	24.0 (10.9)	24.0 (10.9)	80 (24.4)		16.3 (7.4)	18.6 (8.5)	20.0 (9.1)	20.7 (9.4)
90 (27.4)		22.6 (10.3)	24.0 (10.9)	24.0 (10.9)	24.0 (10.9)	90 (27.4)		19.1 (8.7)	22.5 (10.2)	24.0 (10.9)	23.2 (10.5)	90 (27.4)		15.2 (6.9)	17.7 (8.0)	19.1 (8.7)	19.8 (9.0)
100 (30.5)		21.2 (9.6)	24.0 (10.9)	22.5 (10.2)	22.0 (10.0)	100 (30.5)		17.6 (8.0)	22.1 (10.0)	22.6 (10.3)	22.0 (10.0)	100 (30.5)		14.4 (6.5)	16.7 (7.6)	18.3 (8.3)	19.0 (8.6)
120 (36.6)		17.7 (8.0)	18.5 (8.4)	17.1 (7.8)	16.3 (7.4)	120 (36.6)			18.7 (8.5)	17.4 (7.9)	16.6 (7.5)	120 (36.6)			15.1 (6.9)	16.9 (7.7)	16.9 (7.7)
140 (42.7)			14.6 (6.6)	13.2 (6.0)	12.3 (5.6)	140 (42.7)			14.7 (6.7)	13.4 (6.1)	12.6 (5.7)	140 (42.7)				13.6 (6.2)	12.9 (5.9)
160 (48.8)			11.7 (5.3)	10.3 (4.7)	9.4 (4.3)	160 (48.8)				10.5 (4.8)	9.7 (4.4)	160 (48.8)				10.6 (4.8)	9.8 (4.5)
180 (54.9)				8.1 (3.7)	7.2 (3.3)	180 (54.9)				8.2 (3.7)	7.4 (3.4)	180 (54.9)					7.5 (3.4)
200 (61.0)				6.3 (2.9)	5.1 (2.3)	200 (61.0)					5.3 (2.4)	200 (61.0)					
220 (67.1)					3.3 (1.5)	220 (67.1)					3.4 (1.5)	220 (67.1)					
230 (70.1)					2.5 (1.1)	230 (70.1)						230 (70.1)					

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45 ft (13.7m) Offset Jib Length – 360° Rotation ABC + A Counterweight [92,000 lb (41.7mt) + 48,000 lb (21.8mt)] [All capacities are listed in kips (mt)]																	
5° Offset						15° Offset						25° Offset					
Load Radius ft (m)	Main Boom Length ft (m)					Load Radius ft (m)	Main Boom Length ft (m)					Load Radius ft (m)	Main Boom Length ft (m)				
	50 (15.2)	100 (30.5)	150 (45.7)	200 (61.0)	230 (70.1)		50 (15.2)	100 (30.5)	150 (45.7)	200 (61.0)	230 (70.1)		50 (15.2)	100 (30.5)	150 (45.7)	200 (61.0)	230 (70.1)
30 (9.1)	24.0 (10.9)					30 (9.1)						30 (9.1)					
40 (12.2)	22.6 (10.3)	24.0 (10.9)				40 (12.2)	18.4 (8.4)	22.4 (10.2)				40 (12.2)	13.7 (6.2)				
50 (15.2)	19.0 (8.6)	23.8 (10.8)	24.0 (10.9)	24.0 (10.9)		50 (15.2)	15.3 (7.0)	19.2 (8.7)	22.0 (10.0)			50 (15.2)	11.8 (5.4)	13.6 (6.2)			
60 (18.3)	15.8 (7.2)	22.5 (10.2)	24.0 (10.9)	24.0 (10.9)	24.0 (10.9)	60 (18.3)	13.1 (6.0)	16.8 (7.6)	19.6 (8.9)	21.7 (9.9)		60 (18.3)	10.4 (4.7)	12.3 (5.6)	13.5 (6.1)		
70 (21.3)	13.5 (6.1)	19.6 (8.9)	22.5 (10.2)	24.0 (10.9)	23.2 (10.5)	70 (21.3)	11.5 (5.2)	15.0 (6.8)	17.7 (8.0)	19.6 (8.9)	20.9 (9.5)	70 (21.3)	9.4 (4.3)	11.3 (5.1)	12.5 (5.7)	13.4 (6.1)	13.8 (6.3)
80 (24.4)	11.8 (5.4)	17.2 (7.8)	22.2 (10.1)	23.4 (10.6)	21.2 (9.6)	80 (24.4)	17.0 (7.6)	13.5 (6.1)	16.1 (7.3)	18.2 (8.3)	19.3 (8.8)	80 (24.4)	8.6 (3.9)	10.4 (4.7)	11.7 (5.3)	12.6 (5.7)	13.1 (6.0)
90 (27.4)	10.6 (4.8)	15.3 (7.0)	19.9 (9.0)	22.4 (10.2)	20.6 (9.4)	90 (27.4)		12.4 (5.6)	14.8 (6.7)	16.9 (7.7)	17.9 (8.1)	90 (27.4)		9.7 (4.4)	11.0 (5.0)	11.9 (5.4)	12.4 (5.6)
100 (30.5)		13.8 (6.3)	18.0 (8.2)	21.8 (9.9)	19.9 (9.0)	100 (30.5)		11.4 (5.2)	13.7 (6.2)	15.7 (7.1)	16.7 (7.6)	100 (30.5)		9.1 (4.1)	10.4 (4.7)	11.3 (5.1)	11.8 (5.4)
120 (36.6)		11.6 (5.3)	15.1 (6.9)	17.4 (7.9)	16.6 (14.5)	120 (36.6)		10.0 (4.5)	12.0 (5.5)	13.9 (6.3)	14.8 (6.7)	120 (36.6)			9.4 (4.3)	10.3 (4.7)	10.8 (4.9)
140 (42.7)			13.0 (5.9)	13.5 (6.1)	11.1 (5.0)	140 (42.7)			10.8 (4.9)	12.4 (5.6)	13.0 (5.9)	140 (42.7)			8.7 (4.0)	9.5 (4.3)	10.0 (4.5)
160 (48.8)			11.5 (5.2)	10.6 (4.8)	8.5 (7.5)	160 (48.8)			9.8 (4.5)	10.9 (5.0)	10.0 (4.5)	160 (48.8)				8.9 (4.0)	9.3 (4.2)
180 (54.9)			9.8 (4.5)	8.3 (3.8)	5.4 (2.5)	180 (54.9)				8.6 (3.9)	7.7 (3.5)	180 (54.9)				8.4 (3.8)	8.0 (3.6)
200 (61.0)				6.6 (3.0)	3.7 (1.7)	200 (61.0)				6.7 (3.0)	5.7 (2.6)	200 (61.0)					6.0 (2.7)
220 (67.1)				4.8 (2.2)	2.2 (1.0)	220 (67.1)					3.9 (1.8)	220 (67.1)					
230 (70.1)						230 (70.1)					3.1 (1.4)	230 (70.1)					

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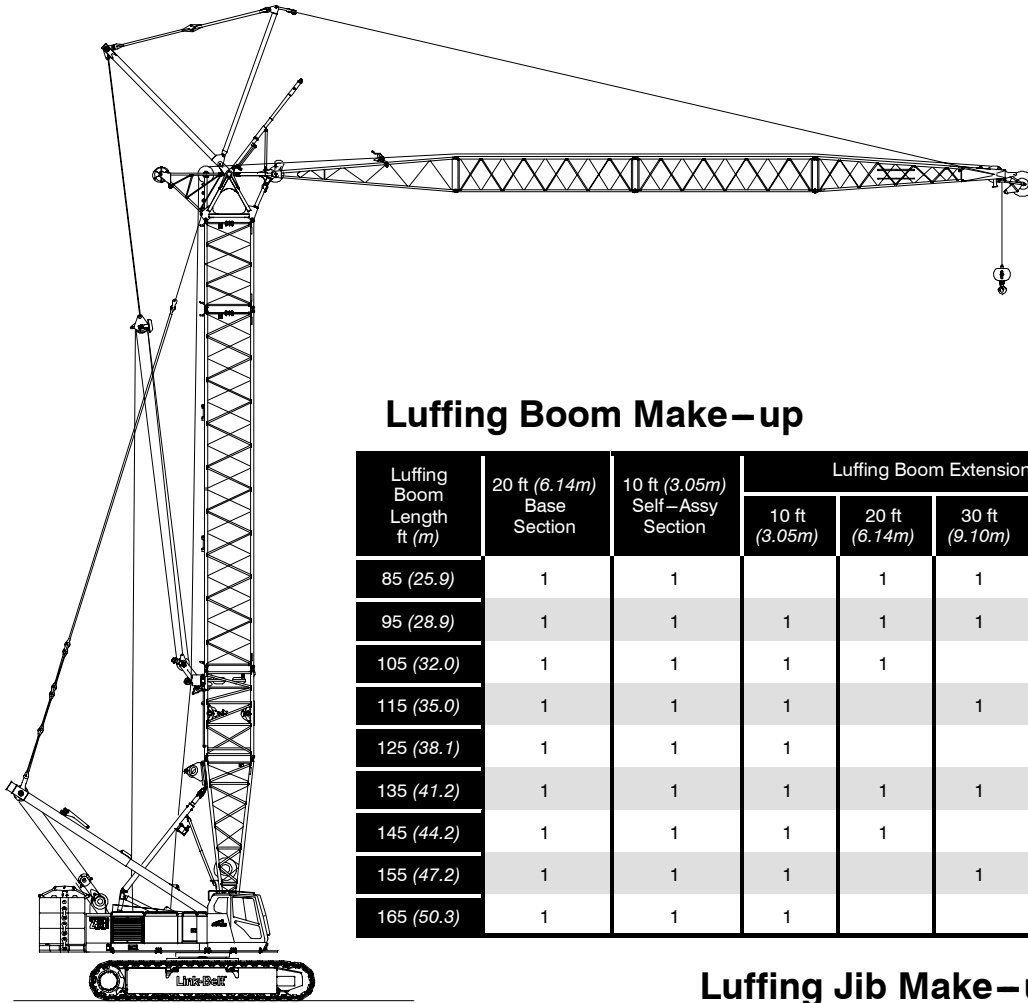
60 ft (18.3m) Offset Jib Length – 360° Rotation																	
ABC + A Counterweight [92,000 lb (41.7mt) + 48,000 lb (21.8mt)]																	
[All capacities are listed in kips (mt)]																	
5° Offset						15° Offset						25° Offset					
Load Radius ft (m)	Main Boom Length ft (m)					Load Radius ft (m)	Main Boom Length ft (m)					Load Radius ft (m)	Main Boom Length ft (m)				
	50 (15.2)	100 (30.5)	150 (45.7)	200 (61.0)	230 (70.1)		50 (15.2)	100 (30.5)	150 (45.7)	200 (61.0)	230 (70.1)		50 (15.2)	100 (30.5)	150 (45.7)	200 (61.0)	230 (70.1)
30 (9.1)	22.8 (10.4)					30 (9.1)	24.0 (10.9)					30 (9.1)					
40 (12.2)	22.2 (10.1)	22.6 (10.3)				40 (12.2)	23.9 (10.9)					40 (12.2)					
50 (15.2)	19.4 (8.8)	20.9 (9.5)	22.4 (10.2)			50 (15.2)	22.3 (10.1)	14.8 (6.7)				50 (15.2)	9.4 (4.3)				
60 (18.3)	15.4 (7.0)	17.6 (8.0)	21.8 (9.9)	21.7 (9.9)	20.1 (9.1)	60 (18.3)	19.0 (8.6)	12.9 (5.9)	14.7 (6.7)			60 (18.3)	8.2 (3.7)	9.3 (4.2)			
70 (21.3)	12.8 (5.8)	15.1 (6.9)	18.9 (8.6)	21.1 (9.6)	19.5 (8.9)	70 (21.3)	16.7 (7.6)	11.5 (5.2)	13.3 (6.0)	14.8 (6.7)	15.3 (7.0)	70 (21.3)	7.3 (3.3)	8.5 (3.9)	9.2 (4.2)		
80 (24.4)	10.9 (5.0)	13.3 (6.0)	16.7 (7.6)	19.8 (9.0)	18.9 (8.6)	80 (24.4)		10.3 (4.7)	12.1 (5.5)	13.4 (6.1)	14.1 (6.4)	80 (24.4)	6.6 (3.0)	7.8 (3.5)	8.6 (3.9)	9.2 (4.2)	9.4 (4.3)
90 (27.4)	9.5 (4.3)	11.8 (5.4)	14.9 (6.8)	17.8 (8.1)	18.3 (8.3)	90 (27.4)		9.4 (4.3)	11.1 (5.0)	12.4 (5.6)	13.1 (6.0)	90 (27.4)	6.0 (2.7)	7.2 (3.3)	8.1 (3.7)	8.7 (4.0)	9.0 (4.1)
100 (30.5)	8.4 (3.8)	10.6 (4.8)	13.5 (6.1)	16.2 (7.4)	17.6 (8.0)	100 (30.5)		8.6 (3.9)	10.2 (4.6)	11.6 (5.3)	12.2 (5.5)	100 (30.5)		6.7 (3.0)	7.6 (3.5)	8.2 (3.7)	8.5 (3.9)
120 (36.6)		8.9 (4.0)	11.3 (5.1)	13.6 (6.2)	14.9 (6.8)	120 (36.6)		7.4 (3.4)	8.9 (4.0)	10.1 (4.6)	10.8 (4.9)	120 (36.6)		6.0 (2.7)	6.8 (3.1)	7.4 (3.4)	7.7 (3.5)
140 (42.7)		7.6 (3.5)	9.7 (4.4)	11.8 (5.4)	12.9 (5.9)	140 (42.7)		6.6 (3.0)	7.9 (3.6)	9.0 (4.1)	9.7 (4.4)	140 (42.7)			6.2 (2.8)	6.8 (3.1)	7.1 (3.2)
160 (48.8)			8.5 (3.9)	10.3 (4.7)	10.0 (4.5)	160 (48.8)			7.1 (3.2)	8.2 (3.7)	8.8 (4.0)	160 (48.8)			5.8 (2.6)	6.3 (2.9)	6.6 (3.0)
180 (54.9)			7.6 (3.5)	8.6 (3.9)	7.7 (3.5)	180 (54.9)			6.6 (3.0)	7.5 (3.4)	8.0 (3.6)	180 (54.9)				5.9 (2.7)	6.2 (2.8)
200 (61.0)				6.8 (3.1)	5.7 (2.6)	200 (61.0)				6.9 (3.1)	6.1 (2.8)	200 (61.0)					5.9 (2.7)
220 (67.1)				5.2 (2.4)	4.0 (1.8)	220 (67.1)				5.4 (2.5)	4.3 (2.0)	220 (67.1)					
240 (73.2)						240 (73.2)					2.7 (1.2)	240 (73.2)					

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75 ft (22.9m) Offset Jib Length – 360° Rotation ABC + A Counterweight [92,000 lb (41.7mt) + 48,000 lb (21.8mt)] [All capacities are listed in kips (mt)]																	
5° Offset						15° Offset						25° Offset					
Load Radius ft (m)	Main Boom Length ft (m)					Load Radius ft (m)	Main Boom Length ft (m)					Load Radius ft (m)	Main Boom Length ft (m)				
	50 (15.2)	100 (30.5)	150 (45.7)	200 (61.0)	230 (70.1)		50 (15.2)	100 (30.5)	150 (45.7)	200 (61.0)	230 (70.1)		50 (15.2)	100 (30.5)	150 (45.7)	200 (61.0)	230 (70.1)
40 (12.2)	17.5 (8.0)					40 (12.2)						40 (12.2)					
50 (15.2)	13.8 (6.3)	18.1 (8.2)	19.2 (8.7)			50 (15.2)	10.9 (5.0)					50 (15.2)					
60 (18.3)	11.3 (5.1)	15.1 (6.9)	18.5 (8.4)	17.9 (8.1)		60 (18.3)	9.1 (4.1)	11.0 (5.0)				60 (18.3)	7.0 (3.2)				
70 (21.3)	9.5 (4.3)	12.9 (5.9)	16.0 (7.3)	17.4 (7.9)	16.5 (7.5)	70 (21.3)	7.9 (3.6)	9.7 (4.4)	11.0 (5.0)			70 (21.3)	6.1 (2.8)	7.0 (3.2)			
80 (24.4)	8.2 (3.7)	11.3 (5.1)	14.0 (6.4)	16.5 (7.5)	16.1 (7.3)	80 (24.4)	6.9 (3.1)	8.6 (3.9)	9.9 (4.5)	11.0 (5.0)	11.5 (5.2)	80 (24.4)	5.4 (2.5)	6.3 (2.9)	6.9 (3.1)		
90 (27.4)	7.2 (3.3)	9.9 (4.5)	12.4 (5.6)	14.8 (6.7)	15.7 (7.1)	90 (27.4)	6.1 (2.8)	7.8 (3.5)	9.1 (4.1)	10.1 (4.6)	10.6 (4.8)	90 (27.4)	4.9 (2.2)	5.8 (2.6)	6.4 (2.9)	6.9 (3.1)	7.1 (3.2)
100 (30.5)	6.4 (2.9)	8.9 (4.0)	11.2 (5.1)	13.3 (6.0)	14.5 (6.6)	100 (30.5)	5.5 (2.5)	7.1 (3.2)	8.3 (3.8)	9.4 (4.3)	9.9 (4.5)	100 (30.5)	4.5 (2.0)	5.4 (2.5)	6.0 (2.7)	6.5 (3.0)	6.7 (3.0)
120 (36.6)	5.2 (2.4)	7.3 (3.3)	9.3 (4.2)	11.1 (5.0)	12.2 (5.5)	120 (36.6)		6.0 (2.7)	7.1 (3.2)	8.1 (3.7)	8.6 (3.9)	120 (36.6)		4.7 (2.1)	5.3 (2.4)	5.8 (2.6)	6.0 (2.7)
140 (42.7)		6.2 (2.8)	7.9 (3.6)	9.5 (4.3)	10.5 (4.8)	140 (42.7)		5.2 (2.4)	6.3 (2.9)	7.2 (3.3)	7.7 (3.5)	140 (42.7)		4.2 (1.9)	4.8 (2.2)	5.2 (2.4)	5.5 (2.5)
160 (48.8)		5.4 (2.5)	6.8 (3.1)	8.3 (3.8)	9.1 (4.1)	160 (48.8)			5.6 (2.5)	6.4 (2.9)	6.9 (3.1)	160 (48.8)			4.3 (2.0)	4.8 (2.2)	5.0 (2.3)
180 (54.9)			6.0 (2.7)	7.3 (3.3)	7.9 (3.6)	180 (54.9)			5.0 (2.3)	5.8 (2.6)	6.2 (2.8)	180 (54.9)			4.0 (1.8)	4.4 (2.0)	4.6 (2.1)
200 (61.0)			5.4 (2.5)	6.2 (2.8)	6.0 (2.7)	200 (61.0)				5.3 (2.4)	5.7 (2.6)	200 (61.0)				4.1 (1.9)	4.3 (2.0)
220 (67.1)				4.7 (2.1)	4.2 (1.9)	220 (67.1)				4.9 (2.2)	4.6 (2.1)	220 (67.1)					4.1 (1.9)
240 (73.2)				3.3 (1.5)	2.7 (1.2)	240 (73.2)					3.1 (1.4)	240 (73.2)					
250 (76.2)					2.1 (1.0)	250 (76.2)					2.4 (1.1)	250 (76.2)					

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Luffing Attachment Make-up



Luffing Boom Make-up

Luffing Boom Length ft (m)	20 ft (6.14m) Base Section	10 ft (3.05m) Self-Assy Section	Luffing Boom Extensions				5 ft (1.52m) Top Section
			10 ft (3.05m)	20 ft (6.14m)	30 ft (9.10m)	40 ft (12.19m)	
85 (25.9)	1	1		1	1		1
95 (28.9)	1	1	1	1	1		1
105 (32.0)	1	1	1	1		1	1
115 (35.0)	1	1	1		1	1	1
125 (38.1)	1	1	1			2	1
135 (41.2)	1	1	1	1	1	1	1
145 (44.2)	1	1	1	1		2	1
155 (47.2)	1	1	1		1	2	1
165 (50.3)	1	1	1			3	1

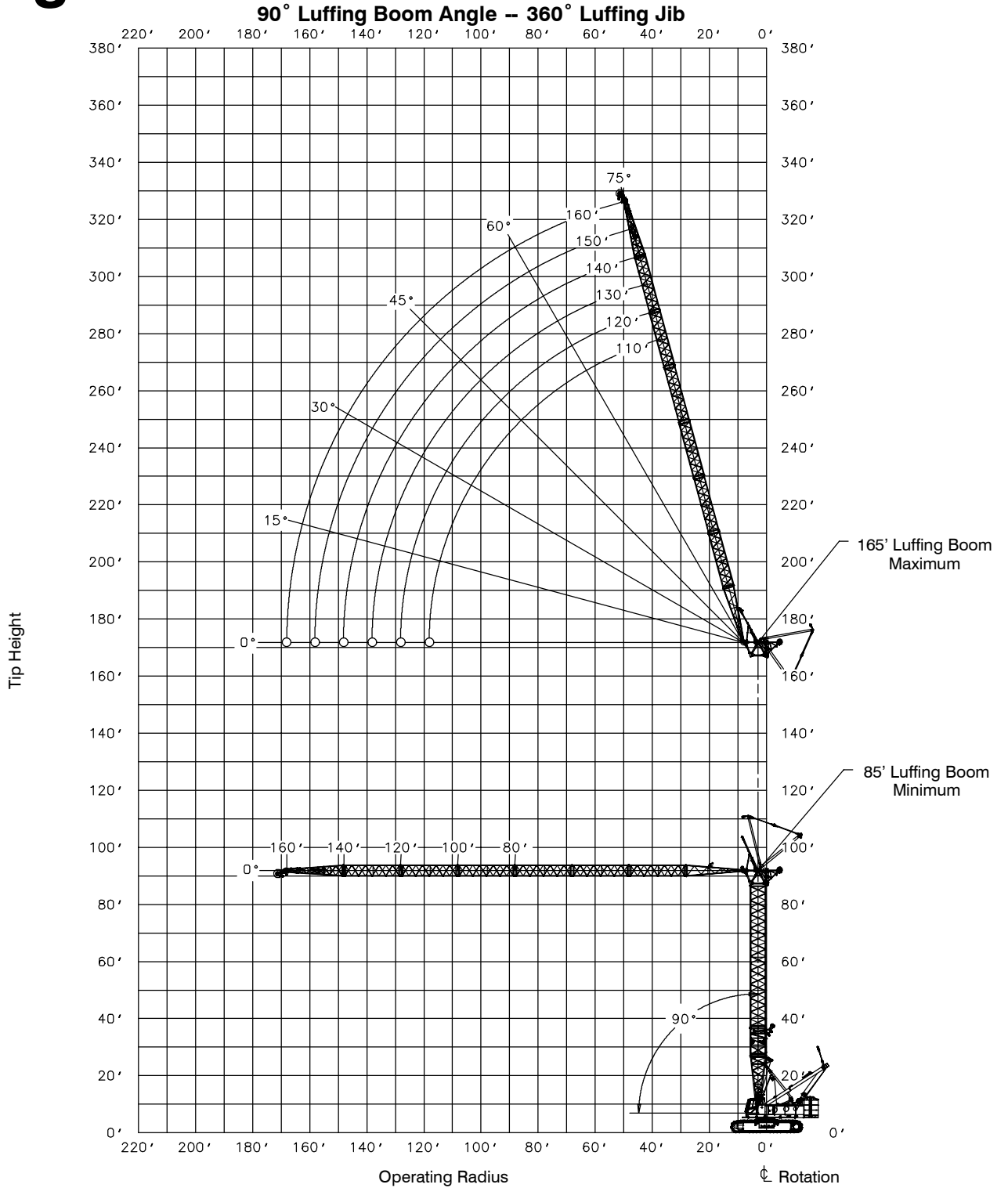
Luffing Jib Make-up

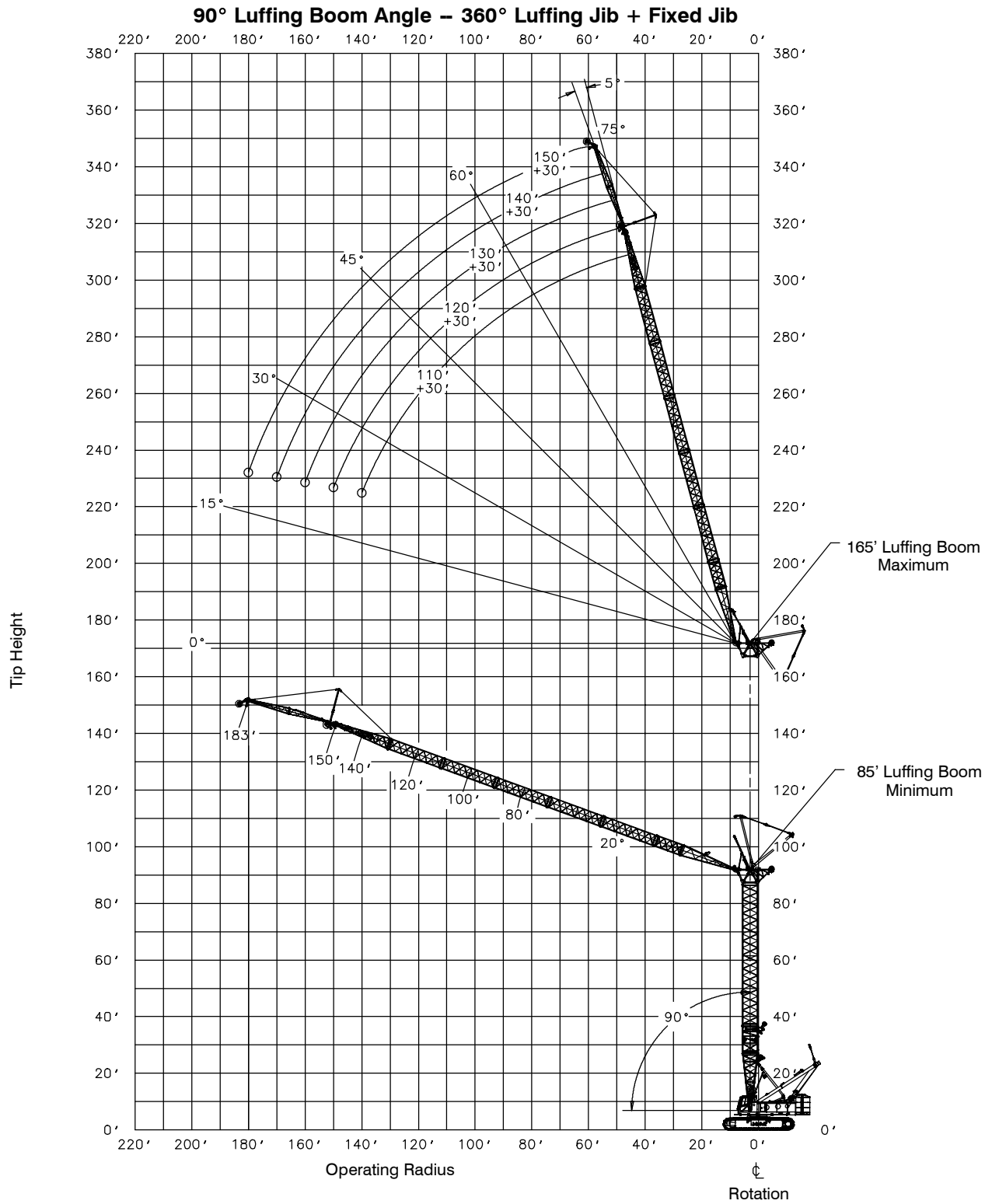
Luffing Jib Length ft (m)	20 ft (6.14m) Base Section	Luffing Jib Extensions			20 ft (6.14m) Top Section
		10 ft (3.05m)	20 ft (6.14m)	30 ft (9.10m)	
80 (24.4)	1	1		1	1
90 (27.4)	1		1	1	1
100 (30.5)	1	1	1	1	1
110 (33.5)	1	1		2	1
120 (36.6)	1		1	2	1
130 (39.6)	1	1	1	2	1
140 (42.7)	1	1		3	1
150 (45.7)	1		1	3	1
160 (48.8)	1	1	1	3	1

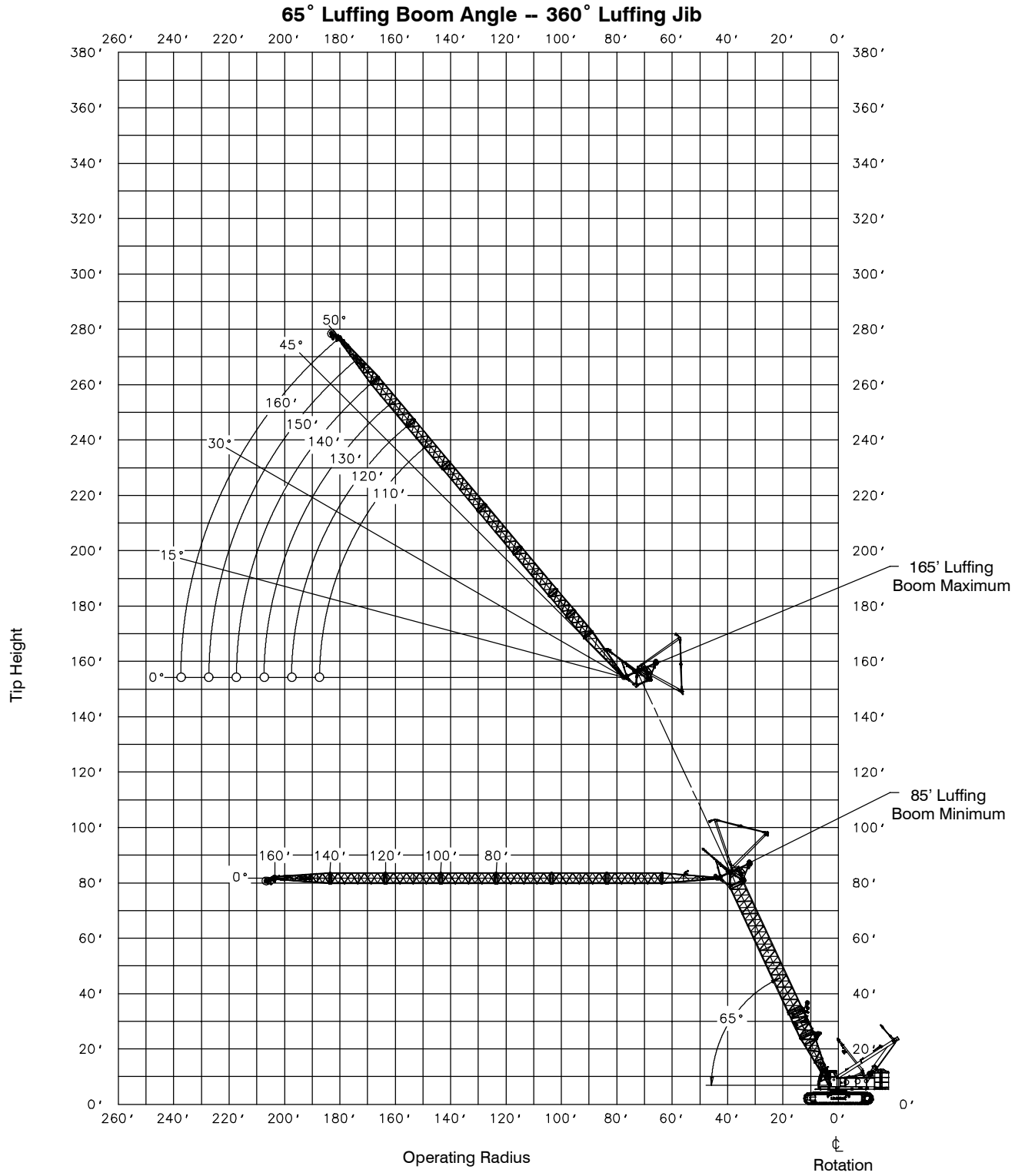
Notes:

1. Capacities shown are in kips/metric tons (1 kip = 1,000 lb / 1 metric ton = 0.45 kips) and are not more than 75% of the tipping loads with the crane standing level on a firm supporting surface. A deduction must be made from these capacities for the weight of the hook block, hook ball, sling, grapple, load weighing devices, etc. When lifting from the luffing jib with the fixed jib installed, reduce capacities by values shown in the Crane Rating Manual. See Operator's Manual for all limitations when raising or lowering attachment.
2. The capacities in the shaded areas are based on structural strength. The capacities in the non-shaded areas are based on stability ratings.
3. All luffing attachment combinations require the maximum counterweight combination "ABC+LWR".
4. Load ratings are based on freely suspended loads and make no allowances for such factors as the effect of the wind on load, ground conditions, and operating speeds. The operator shall therefore reduce load ratings in order to take these conditions into account. Refer to the Crane Rating Manual for Wind Speed Restrictions.
5. Refer to the Crane Rating Manual for allowable attachment liftoff lengths and allowable working lengths at the various luffing boom angles.
6. The fixed jib has only one length [30 ft (9.14m)] and only one offset with respect to the luffing jib (5°).
7. These capacities are in compliance with ASME/ANSI B30.5 at date of manufacture.
8. These capacities apply only to the crane as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.

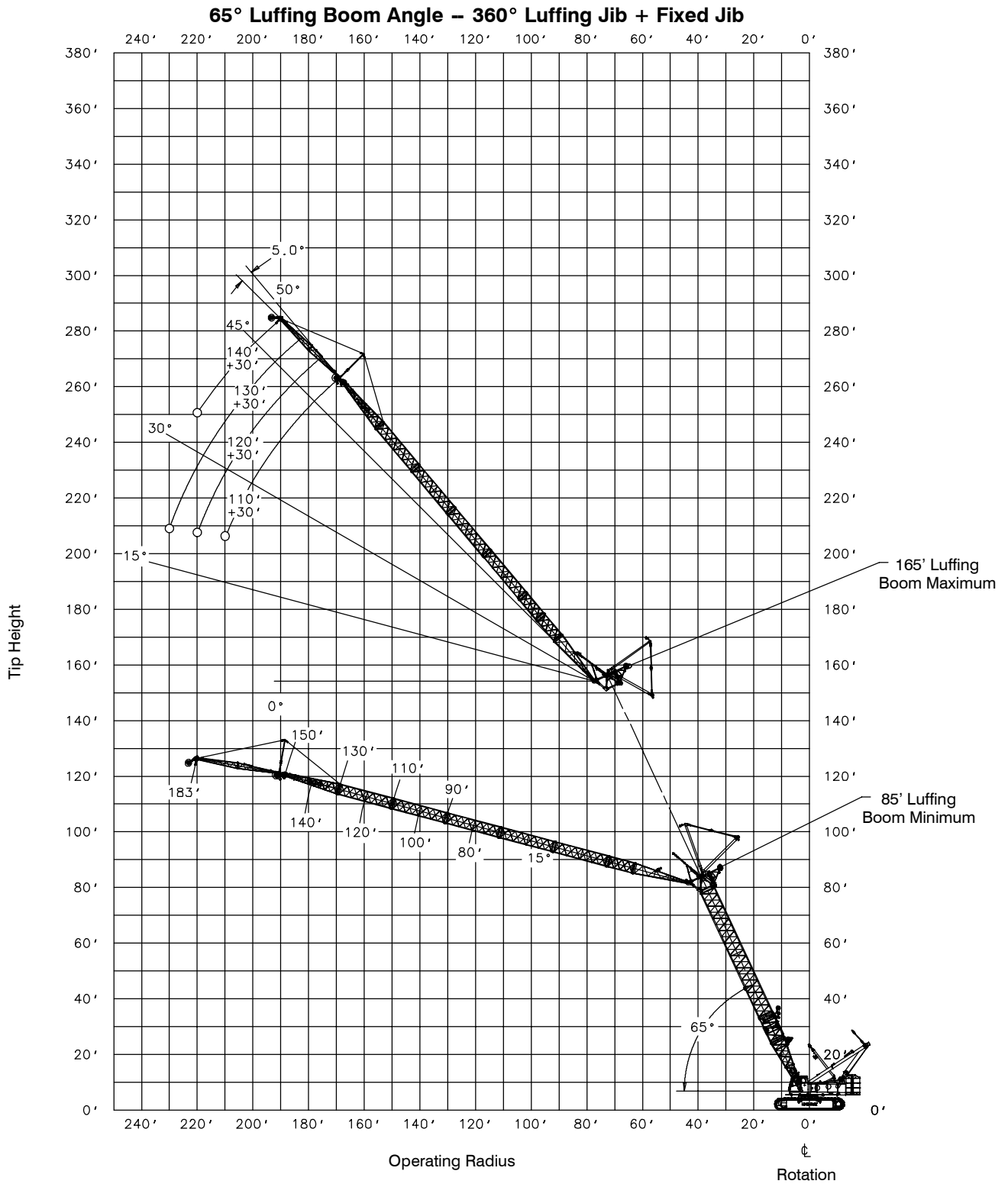
Luffing Attachment Working Range Diagrams







4



Luffing Attachment Load Charts

85 ft (25.9m) Luffing Boom Length – 360° Rotation ABC + A Counterweight [92,000 lb (41.7mt) + 48,000 lb (21.8mt)] [All capacities are listed in kips (mt)]													
80 ft (24.4m) Luffing Jib Length							100 ft (30.5m) Luffing Jib Length						
Load Radius ft (m)	Luffing Boom Angle						Load Radius ft (m)	Luffing Boom Angle					
	90°	85°	80°	75°	70°	65°		90°	85°	80°	75°	70°	65°
29 (8.8)	53.9 (24.4)						29 (8.8)						
30 (9.1)	52.7 (23.9)						30 (9.1)						
40 (12.2)	43.8 (19.9)						40 (12.2)	40.4 (18.3)					
50 (15.2)	38.5 (17.5)	41.3 (18.7)					50 (15.2)	34.8 (15.8)	38.3 (17.4)				
60 (18.3)	35.0 (15.9)	36.4 (16.5)	39.2 (17.8)				60 (18.3)	31.0 (14.1)	33.1 (15.0)				
70 (21.3)	32.9 (14.9)	33.2 (15.1)	34.5 (15.6)	37.2 (16.9)			70 (21.3)	28.2 (12.8)	29.4 (13.3)	31.5 (14.3)			
80 (24.4)	26.7 (12.1)	31.4 (14.2)	31.7 (14.4)	32.9 (14.9)			80 (24.4)	26.3 (11.9)	26.9 (12.2)	28.0 (12.7)	30.0 (13.6)		
90 (27.4)		25.6 (11.6)	29.9 (13.6)	28.9 (13.1)	27.9 (12.7)		90 (27.4)	23.8 (10.8)	25.1 (11.4)	25.7 (11.7)	26.9 (12.2)		
100 (30.5)			24.4 (11.1)	25.4 (11.5)	24.5 (11.1)	23.6 (10.7)	100 (30.5)	19.8 (9.0)	23.2 (10.5)	24.1 (10.9)	24.6 (11.2)	24.0 (10.9)	
110 (33.5)				22.4 (10.2)	21.8 (9.9)	21.1 (9.6)	110 (33.5)		19.2 (8.7)	22.5 (10.2)	22.2 (10.1)	21.4 (9.7)	20.6 (9.3)
120 (36.6)						18.8 (8.5)	120 (36.6)			18.4 (8.3)	19.9 (9.0)	19.1 (8.7)	18.4 (8.3)
130 (39.6)							130 (39.6)				16.7 (7.6)	17.2 (7.8)	16.5 (7.5)
140 (42.7)							140 (42.7)						15.0 (6.8)

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85 ft (25.9m) Luffing Boom Length – 360° Rotation ABC + A Counterweight [92,000 lb (41.7mt) + 48,000 lb (21.8mt)] [All capacities are listed in kips (mt)]													
130 ft (39.6m) Luffing Jib Length							160 ft (48.8m) Luffing Jib Length						
Load Radius ft (m)	Luffing Boom Angle						Load Radius ft (m)	Luffing Boom Angle					
	90°	85°	80°	75°	70°	65°		90°	85°	80°	75°	70°	65°
50 (15.2)	30.4 (13.8)						50 (15.2)	26.0 (11.8)					
60 (18.3)	26.6 (12.1)	28.9 (13.1)					60 (18.3)	22.2 (10.1)					
70 (21.3)	23.8 (10.8)	25.5 (11.6)					70 (21.3)	19.8 (9.0)	21.2 (9.6)				
80 (24.4)	21.2 (9.6)	22.1 (10.0)	24.4 (11.1)				80 (24.4)	17.8 (8.1)	19.0 (8.6)				
90 (27.4)	19.7 (8.9)	20.3 (9.2)	21.3 (9.7)				90 (27.4)	16.3 (7.4)	17.1 (7.8)	18.2 (8.3)			
100 (30.5)	18.5 (8.4)	18.8 (8.5)	19.4 (8.8)	20.4 (9.3)			100 (30.5)	15.1 (6.8)	15.6 (7.1)	16.5 (7.5)			
110 (33.5)	17.7 (8.0)	17.7 (8.0)	18.0 (8.2)	18.7 (8.5)			110 (33.5)	14.0 (6.4)	14.4 (6.5)	15.0 (6.8)	15.9 (7.2)		
120 (36.6)	15.4 (7.0)	16.9 (7.7)	17.0 (7.7)	17.3 (7.8)	18.0 (8.2)		120 (36.6)	13.2 (6.0)	13.4 (6.1)	13.8 (6.3)	14.5 (6.6)		
130 (39.6)	12.6 (5.7)	15.2 (6.9)	16.3 (7.4)	16.3 (7.4)	16.5 (7.5)	15.8 (7.2)	130 (39.6)	12.6 (5.7)	12.6 (5.7)	12.9 (5.9)	13.3 (6.0)	13.9 (6.3)	
140 (42.7)		12.4 (5.6)	14.9 (6.8)	15.6 (7.1)	14.9 (6.8)	14.3 (6.5)	140 (42.7)	11.7 (5.3)	12.0 (5.4)	12.2 (5.5)	12.4 (5.6)	12.9 (5.9)	
150 (45.7)			12.0 (5.4)	14.2 (6.4)	13.6 (6.2)	12.9 (5.9)	150 (45.7)	9.9 (4.5)	11.6 (5.3)	11.6 (5.3)	11.7 (5.3)	11.9 (5.4)	12.2 (5.5)
160 (48.8)				11.0 (5.0)	12.4 (5.6)	11.8 (5.4)	160 (48.8)	8.1 (3.7)	9.8 (4.4)	11.2 (5.1)	11.2 (5.1)	11.3 (5.1)	11.1 (5.0)
170 (51.8)						10.8 (4.9)	170 (51.8)		8.0 (3.6)	9.7 (4.4)	10.8 (4.9)	10.7 (4.9)	10.1 (4.6)
180 (54.9)							180 (54.9)			7.8 (3.5)	9.5 (4.3)	9.7 (4.4)	9.2 (4.2)
190 (57.9)							190 (57.9)				7.2 (3.3)	8.9 (4.0)	8.4 (3.8)
200 (61.0)							200 (61.0)						7.7 (3.5)

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105 ft (30.0m) Luffing Boom Length – 360° Rotation ABC + A Counterweight [92,000 lb (41.7mt) + 48,000 lb (21.8mt)] [All capacities are listed in kips (mt)]													
80 ft (24.4m) Luffing Jib Length							100 ft (30.5m) Luffing Jib Length						
Load Radius ft (m)	Luffing Boom Angle						Load Radius ft (m)	Luffing Boom Angle					
	90°	85°	80°	75°	70°	65°		90°	85°	80°	75°	70°	65°
29 (8.8)	52.2 (23.7)						29 (8.8)						
30 (9.1)	51.1 (23.2)						30 (9.1)						
40 (12.2)	42.7 (19.4)						40 (12.2)	39.2 (17.8)					
50 (15.2)	37.8 (17.1)	41.5 (18.8)					50 (15.2)	33.9 (15.4)					
60 (18.3)	34.5 (15.6)	36.4 (16.5)	40.3 (18.3)				60 (18.3)	30.3 (13.7)	33.0 (15.0)				
70 (21.3)	32.6 (14.8)	33.2 (15.1)	35.3 (16.0)				70 (21.3)	27.7 (12.6)	29.3 (13.3)	32.2 (14.6)			
80 (24.4)	26.6 (12.1)	31.3 (14.2)	32.1 (14.6)	32.7 (14.8)			80 (24.4)	25.9 (11.7)	26.8 (12.2)	28.5 (12.9)			
90 (27.4)		26.8 (12.2)	29.5 (13.4)	28.2 (12.8)	27.1 (12.3)		90 (27.4)	23.8 (10.8)	25.0 (11.3)	26.0 (11.8)	27.7 (12.6)		
100 (30.5)			25.9 (11.7)	24.7 (11.2)	23.6 (10.7)		100 (30.5)	19.8 (9.0)	23.9 (10.8)	24.2 (11.0)	24.2 (11.0)		
110 (33.5)				22.1 (10.0)	21.1 (9.6)	20.1 (9.1)	110 (33.5)		20.0 (9.1)	22.5 (10.2)	21.6 (9.8)	20.6 (9.3)	
120 (36.6)					18.9 (8.6)	18.0 (8.2)	120 (36.6)			20.2 (9.2)	19.4 (8.8)	18.4 (8.3)	17.5 (7.9)
130 (39.6)						16.2 (7.3)	130 (39.6)				17.4 (7.9)	16.6 (7.5)	15.7 (7.1)
140 (42.7)							140 (42.7)					15.0 (6.8)	14.2 (6.4)
150 (45.7)							150 (45.7)						12.9 (5.9)

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105 ft (30.0m) Luffing Boom Length – 360° Rotation ABC + A Counterweight [92,000 lb (41.7mt) + 48,000 lb (21.8mt)] [All capacities are listed in kips (mt)]													
130 ft (39.6m) Luffing Jib Length							160 ft (48.8m) Luffing Jib Length						
Load Radius ft (m)	Luffing Boom Angle						Load Radius ft (m)	Luffing Boom Angle					
	90°	85°	80°	75°	70°	65°		90°	85°	80°	75°	70°	65°
50 (15.2)	29.3 (13.3)						50 (15.2)	24.8 (11.2)					
60 (18.3)	25.8 (11.7)						60 (18.3)	21.3 (9.7)					
70 (21.3)	23.1 (10.5)	25.2 (11.4)					70 (21.3)	19.0 (8.6)					
80 (24.4)	20.7 (9.4)	21.9 (9.9)					80 (24.4)	17.2 (7.8)	18.7 (8.5)				
90 (27.4)	19.2 (8.7)	20.1 (9.1)	21.5 (9.8)				90 (27.4)	15.8 (7.2)	16.9 (7.7)				
100 (30.5)	18.1 (8.2)	18.6 (8.4)	19.5 (8.8)	21.0 (9.5)			100 (30.5)	14.6 (6.6)	15.3 (6.9)	16.5 (7.5)			
110 (33.5)	17.4 (7.9)	17.5 (7.9)	18.1 (8.2)	19.1 (8.7)			110 (33.5)	13.6 (6.2)	14.2 (6.4)	15.1 (6.8)			
120 (36.6)	15.4 (7.0)	16.7 (7.6)	17.0 (7.7)	17.6 (7.3)	17.6 (7.3)		120 (36.6)	12.8 (5.8)	13.2 (6.0)	13.8 (6.3)	14.8 (6.7)		
130 (39.6)	12.6 (5.7)	15.7 (7.1)	16.2 (7.3)	16.5 (7.5)	15.8 (7.2)		130 (39.6)	12.2 (5.5)	12.4 (5.6)	12.8 (5.8)	13.5 (6.1)		
140 (42.7)		12.9 (5.9)	15.8 (7.2)	15.1 (6.8)	14.3 (6.5)	13.5 (6.1)	140 (42.7)	11.7 (5.3)	11.8 (5.4)	12.1 (5.5)	12.5 (5.7)	13.3 (6.0)	
150 (45.7)			13.1 (5.9)	13.8 (6.3)	13.0 (5.9)	12.2 (5.5)	150 (45.7)	9.8 (4.4)	11.4 (5.2)	11.4 (5.2)	11.8 (5.4)	12.2 (5.5)	
160 (48.8)				12.6 (5.7)	11.8 (5.4)	11.1 (5.0)	160 (48.8)	8.1 (3.7)	10.1 (4.6)	11.0 (5.0)	11.1 (5.0)	11.1 (5.0)	10.3 (4.7)
170 (51.8)					10.8 (4.9)	10.1 (4.6)	170 (51.8)		8.3 (3.8)	10.3 (4.7)	10.7 (4.9)	10.1 (4.6)	9.4 (4.3)
180 (54.9)						9.3 (4.2)	180 (54.9)			8.5 (3.9)	9.9 (4.5)	9.2 (4.2)	8.6 (3.9)
190 (57.9)							190 (57.9)				8.6 (3.9)	8.4 (3.8)	7.8 (3.5)
200 (61.0)							200 (61.0)					7.7 (3.5)	7.1 (3.2)
210 (64.0)							210 (64.0)						6.5 (2.9)

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135 ft (41.1m) Luffing Boom Length – 360° Rotation ABC + A Counterweight [92,000 lb (41.7mt) + 48,000 lb (21.8mt)] [All capacities are listed in kips (mt)]													
80 ft (24.4m) Luffing Jib Length							100 ft (30.5m) Luffing Jib Length						
Load Radius ft (m)	Luffing Boom Angle						Load Radius ft (m)	Luffing Boom Angle					
	90°	85°	80°	75°	70°	65°		90°	85°	80°	75°	70°	65°
29 (8.8)	47.5 (21.5)						29 (8.8)						
30 (9.1)	46.9 (21.3)						30 (9.1)						
40 (12.2)	40.6 (18.4)						40 (12.2)	36.8 (16.7)					
50 (15.2)	36.1 (16.4)	41.0 (18.6)					50 (15.2)	32.1 (14.6)					
60 (18.3)	33.1 (15.0)	35.8 (16.2)					60 (18.3)	28.8 (13.1)	32.4 (14.7)				
70 (21.3)	30.6 (13.9)	32.6 (14.8)	36.1 (16.4)				70 (21.3)	26.4 (12.0)	28.7 (13.0)				
80 (24.4)	26.6 (12.1)	30.2 (13.7)	32.3 (14.7)				80 (24.4)	24.8 (11.2)	26.1 (11.8)	28.9 (13.1)			
90 (27.4)		27.7 (12.6)	28.7 (13.0)	27.0 (12.2)			90 (27.4)	23.1 (10.5)	24.3 (11.0)	26.0 (11.8)			
100 (30.5)		19.2 (8.7)	25.2 (11.4)	23.7 (10.8)	22.4 (10.2)		100 (30.5)	19.7 (8.9)	22.9 (10.4)	24.0 (10.9)	23.1 (10.5)		
110 (33.5)			22.3 (10.1)	21.2 (9.6)	19.8 (9.0)		110 (33.5)		21.1 (9.6)	22.1 (10.0)	20.7 (9.4)		
120 (36.6)				18.9 (8.6)	17.7 (8.0)	16.5 (7.5)	120 (36.6)		14.5 (6.6)	19.8 (9.0)	18.5 (8.4)	17.2 (7.8)	
130 (39.6)					15.9 (7.2)	14.9 (6.8)	130 (39.6)			17.6 (8.0)	16.6 (7.5)	15.5 (7.0)	14.3 (6.5)
140 (42.7)						13.4 (6.1)	140 (42.7)				15.0 (6.8)	14.0 (6.4)	12.9 (5.9)
150 (45.7)							150 (45.7)					12.7 (5.8)	11.7 (5.3)
160 (48.8)							160 (48.8)						10.7 (4.9)

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135 ft (41.1m) Luffing Boom Length – 360° Rotation ABC + A Counterweight [92,000 lb (41.7mt) + 48,000 lb (21.8mt)] [All capacities are listed in kips (mt)]													
130 ft (39.6m) Luffing Jib Length							160 ft (48.8m) Luffing Jib Length						
Load Radius ft (m)	Luffing Boom Angle						Load Radius ft (m)	Luffing Boom Angle					
	90°	85°	80°	75°	70°	65°		90°	85°	80°	75°	70°	65°
50 (15.2)	27.3 (12.4)						50 (15.2)	21.1 (9.6)					
60 (18.3)	24.1 (10.9)						60 (18.3)	19.7 (8.9)					
70 (21.3)	21.3 (9.7)	24.4 (11.1)					70 (21.3)	17.6 (8.0)					
80 (24.4)	19.6 (8.9)	21.3 (9.7)					80 (24.4)	16.0 (7.3)	17.9 (8.1)				
90 (27.4)	18.2 (8.3)	19.4 (8.8)	21.5 (9.8)				90 (27.4)	14.7 (6.7)	16.2 (7.3)				
100 (30.5)	17.2 (7.8)	18.0 (8.2)	19.5 (8.8)				100 (30.5)	13.6 (6.2)	14.7 (6.7)	16.3 (7.4)			
110 (33.5)	16.5 (7.5)	16.9 (7.7)	17.9 (8.1)	19.6 (8.9)			110 (33.5)	12.7 (5.8)	13.5 (6.1)	14.9 (6.8)			
120 (36.6)	15.4 (7.0)	16.1 (7.3)	16.7 (7.6)	17.7 (8.0)			120 (36.6)	12.0 (5.4)	12.6 (5.7)	13.6 (6.2)			
130 (39.6)	12.6 (5.7)	15.4 (7.0)	15.8 (7.2)	15.9 (7.2)	14.6 (6.6)		130 (39.6)	11.4 (5.2)	11.8 (5.4)	12.5 (5.7)	13.7 (6.2)		
140 (42.7)		13.6 (6.2)	15.2 (6.9)	14.3 (6.5)	13.2 (6.0)		140 (42.7)	11.0 (5.0)	11.2 (5.1)	11.7 (5.3)	12.6 (5.7)		
150 (45.7)		9.6 (4.4)	14.1 (6.4)	13.0 (5.9)	12.0 (5.4)	10.9 (4.9)	150 (45.7)	9.8 (4.4)	10.7 (4.9)	11.1 (5.0)	11.7 (5.3)	11.2 (5.1)	
160 (48.8)			11.5 (5.2)	11.9 (5.4)	10.9 (4.9)	9.9 (4.5)	160 (48.8)	8.0 (3.6)	10.3 (4.7)	10.6 (4.8)	11.0 (5.0)	10.1 (4.6)	
170 (51.8)				10.8 (4.9)	9.9 (4.5)	9.0 (4.1)	170 (51.8)		8.7 (3.9)	10.2 (4.6)	10.1 (4.6)	9.2 (4.2)	8.2 (3.7)
180 (54.9)					9.1 (4.1)	8.2 (3.7)	180 (54.9)		6.2 (2.8)	9.4 (4.3)	9.3 (4.2)	8.3 (3.8)	7.4 (3.4)
190 (57.9)						7.5 (3.4)	190 (57.9)			7.4 (3.4)	8.5 (3.9)	7.6 (3.4)	6.7 (3.0)
200 (61.0)							200 (61.0)				7.8 (3.5)	6.9 (3.1)	6.0 (2.7)
210 (64.0)							210 (64.0)					6.4 (2.9)	5.3 (2.4)
220 (67.1)							220 (67.1)						4.8 (2.2)

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165 ft (50.3m) Luffing Boom Length – 360° Rotation ABC + A Counterweight [92,000 lb (41.7mt) + 48,000 lb (21.8mt)] [All capacities are listed in kips (mt)]													
110 ft (33.5m) Luffing Jib Length							130 ft (39.6m) Luffing Jib Length						
Load Radius ft (m)	Luffing Boom Angle						Load Radius ft (m)	Luffing Boom Angle					
	90°	85°	80°	75°	70°	65°		90°	85°	80°	75°	70°	65°
37 (11.3)	28.9 (13.1)						37 (11.3)						
40 (12.2)	28.2 (12.8)						40 (12.2)						
50 (15.2)	25.6 (11.6)						50 (15.2)	21.8 (9.9)					
60 (18.3)	23.3 (10.6)	25.6 (11.6)					60 (18.3)	20.4 (9.3)					
70 (21.3)	21.2 (9.6)	23.4 (10.6)					70 (21.3)	18.7 (8.5)	20.5 (9.3)				
80 (24.4)	19.5 (8.8)	21.3 (9.7)					80 (24.4)	17.2 (7.8)	18.8 (8.5)				
90 (27.4)	18.1 (8.2)	19.7 (8.9)	21.5 (9.8)				90 (27.4)	15.9 (7.2)	17.4 (7.9)				
100 (30.5)	16.8 (7.6)	18.2 (8.3)	19.9 (9.0)				100 (30.5)	14.7 (6.7)	16.1 (7.3)	17.6 (8.0)			
110 (33.5)	15.7 (7.1)	16.9 (7.7)	18.4 (8.3)	19.0 (8.6)			110 (33.5)	13.7 (6.2)	14.9 (6.8)	16.3 (7.4)			
120 (36.6)		15.8 (7.2)	17.1 (7.8)	17.2 (7.8)			120 (36.6)	12.8 (5.8)	13.8 (6.3)	15.1 (6.8)	15.5 (7.0)		
130 (39.6)		13.6 (6.2)	15.7 (7.1)	15.4 (7.0)	13.9 (6.3)		130 (39.6)	12.0 (5.4)	12.9 (5.9)	14.1 (6.4)	14.6 (6.6)		
140 (42.7)			13.7 (6.2)	13.9 (6.3)	12.5 (5.7)		140 (42.7)		12.1 (5.5)	13.1 (5.9)	13.4 (6.1)	11.9 (5.4)	
150 (45.7)				12.6 (5.7)	11.3 (5.1)	10.1 (4.6)	150 (45.7)		10.3 (4.7)	11.9 (5.4)	12.2 (5.5)	10.8 (4.9)	
160 (48.8)				11.1 (5.0)	10.3 (4.7)	9.0 (4.1)	160 (48.8)			10.4 (4.7)	11.1 (5.0)	9.8 (4.4)	
170 (51.8)					9.4 (4.3)	8.0 (3.6)	170 (51.8)				10.1 (4.6)	8.9 (4.0)	7.4 (3.4)
180 (54.9)						7.2 (3.3)	180 (54.9)				8.5 (3.9)	8.1 (3.7)	6.5 (2.9)
190 (57.9)							190 (57.9)					7.3 (3.3)	5.8 (2.6)
200 (61.0)							200 (61.0)						5.2 (2.4)

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165 ft (50.3m) Luffing Boom Length – 360° Rotation ABC + A Counterweight [92,000 lb (41.7mt) + 48,000 lb (21.8mt)] [All capacities are listed in kips (mt)]													
140 ft (42.76m) Luffing Jib Length							160 ft (48.8m) Luffing Jib Length						
Load Radius ft (m)	Luffing Boom Angle						Load Radius ft (m)	Luffing Boom Angle					
	90°	85°	80°	75°	70°	65°		90°	85°	80°	75°	70°	65°
50 (15.2)	19.4 (8.8)						50 (15.2)	14.8 (6.7)					
60 (18.3)	18.4 (8.3)						60 (18.3)	14.2 (6.4)					
70 (21.3)	17.2 (7.8)	19.0 (8.6)					70 (21.3)	13.4 (6.1)					
80 (24.4)	16.0 (7.3)	17.6 (8.0)					80 (24.4)	12.5 (5.7)	15.2 (6.9)				
90 (27.4)	14.8 (6.7)	16.2 (7.3)					90 (27.4)	11.7 (5.3)	14.0 (6.4)				
100 (30.5)	13.7 (6.2)	15.0 (6.8)	16.5 (7.5)				100 (30.5)	10.8 (4.9)	12.9 (5.6)				
110 (33.5)	12.6 (5.7)	13.9 (6.3)	15.3 (6.9)				110 (33.5)	9.9 (4.5)	12.0 (5.4)	13.2 (6.0)			
120 (36.6)	11.7 (5.3)	12.9 (5.9)	14.2 (6.4)				120 (36.6)	9.1 (4.1)	11.1 (5.0)	12.2 (5.5)			
130 (39.6)	10.9 (4.9)	12.0 (5.4)	13.2 (6.0)	13.5 (6.1)			130 (39.6)	8.4 (3.8)	10.3 (4.7)	11.4 (5.2)			
140 (42.7)	10.3 (4.7)	11.2 (5.1)	12.3 (5.6)	12.8 (5.8)			140 (42.7)	7.7 (3.5)	9.6 (4.4)	10.6 (4.8)	10.8 (4.9)		
150 (45.7)		10.5 (4.8)	11.4 (5.2)	11.9 (5.4)	10.5 (4.8)		150 (45.7)	7.2 (3.3)	8.9 (4.0)	9.8 (4.4)	10.2 (4.6)		
160 (48.8)		9.0 (4.1)	10.3 (4.7)	10.8 (4.9)	9.5 (4.3)		160 (48.8)	6.9 (3.1)	8.3 (3.8)	9.2 (4.2)	9.5 (4.3)	8.9 (4.0)	
170 (51.8)			9.0 (4.1)	9.8 (4.4)	8.6 (3.9)	7.0 (3.2)	170 (51.8)		7.8 (3.5)	8.4 (3.8)	8.8 (4.0)	8.0 (3.6)	
180 (54.9)				8.9 (4.0)	7.7 (3.5)	6.2 (2.8)	180 (54.9)		6.5 (2.9)	7.6 (3.4)	8.0 (3.6)	7.0 (3.2)	5.5 (2.5)
190 (57.9)				7.3 (3.3)	6.9 (3.1)	5.5 (2.5)	190 (57.9)			6.6 (3.0)	7.3 (3.3)	6.3 (2.9)	4.8 (2.2)
200 (61.0)					6.3 (2.9)	4.8 (2.2)	200 (61.0)				6.5 (2.9)	5.6 (2.5)	4.1 (1.9)
210 (64.0)						4.3 (2.0)	210 (64.0)				5.2 (2.4)	4.9 (2.2)	3.6 (1.6)
220 (67.1)							220 (67.1)					4.4 (2.0)	3.0 (1.4)
230 (70.1)							230 (70.1)						2.6 (1.2)

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135 ft (41.1m) Luffing Boom Length – 30 ft (9.1m) Fixed Jib Length – 360° Rotation ABC + A Counterweight [92,000 lb (41.7mt) + 48,000 lb (21.8mt)] [All capacities are listed in kips (mt)]													
80 ft (24.4m) Luffing Jib Length							100 ft (30.5m) Luffing Jib Length						
Load Radius ft (m)	Luffing Boom Angle						Load Radius ft (m)	Luffing Boom Angle					
	90°	85°	80°	75°	70°	65°		90°	85°	80°	75°	70°	65°
40 (12.2)	22.7 (10.3)						40 (12.2)						
50 (15.2)	22.7 (10.3)						50 (15.2)	22.7 (10.3)					
60 (18.3)	22.7 (10.3)						60 (18.3)	22.7 (10.3)					
70 (21.3)	22.7 (10.3)	22.7 (10.3)					70 (21.3)	20.7 (9.4)	22.7 (10.3)				
80 (24.4)	22.1 (10.0)	22.7 (10.3)					80 (24.4)	19.1 (8.7)	20.8 (9.4)				
90 (27.4)	20.2 (9.2)	21.8 (9.9)	22.7 (10.3)				90 (27.4)	17.7 (8.0)	18.9 (8.6)	21.1 (9.6)			
100 (30.5)	17.8 (8.1)	20.5 (9.3)	21.6 (9.8)				100 (30.5)	16.7 (7.6)	17.5 (7.9)	19.1 (8.7)			
110 (33.5)	16.0 (7.3)	18.2 (8.3)	20.2 (9.2)	20.4 (9.3)			110 (33.5)	16.0 (7.3)	16.4 (7.4)	17.4 (7.9)			
120 (36.6)	12.6 (5.7)	16.3 (7.4)	18.5 (8.4)	18.2 (8.3)	16.8 (7.6)		120 (36.6)	15.0 (6.8)	15.6 (7.1)	16.3 (7.4)	17.5 (7.9)		
130 (39.6)		14.7 (6.7)	16.6 (7.5)	16.4 (7.4)	15.1 (6.8)		130 (39.6)	12.9 (5.9)	15.0 (6.8)	15.4 (7.0)	15.8 (7.2)		
140 (42.7)			15.0 (6.8)	14.8 (6.7)	13.7 (6.2)	12.6 (5.7)	140 (42.7)		13.9 (6.3)	14.7 (6.7)	14.3 (6.5)	13.1 (5.9)	
150 (45.7)				13.5 (6.1)	12.4 (5.6)	11.4 (5.2)	150 (45.7)		11.0 (5.0)	14.1 (6.4)	13.0 (5.9)	11.9 (5.4)	
160 (48.8)					11.3 (5.1)	10.4 (4.7)	160 (48.8)			12.0 (5.4)	11.8 (5.4)	10.8 (4.9)	9.8 (4.4)
170 (51.8)						9.5 (4.3)	170 (51.8)				10.8 (4.9)	9.8 (4.4)	8.9 (4.0)
180 (54.9)							180 (54.9)					9.0 (4.1)	8.1 (3.7)
190 (57.9)							190 (57.9)						7.4 (3.4)

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135 ft (41.1m) Luffing Boom Length – 30 ft (9.1m) Fixed Jib Length – 360° Rotation ABC + A Counterweight [92,000 lb (41.7mt) + 48,000 lb (21.8mt)] [All capacities are listed in kips (mt)]													
130 ft (39.6m) Luffing Jib Length							150 ft (45.7m) Luffing Jib Length						
Load Radius ft (m)	Luffing Boom Angle						Load Radius ft (m)	Luffing Boom Angle					
	90°	85°	80°	75°	70°	65°		90°	85°	80°	75°	70°	65°
60 (18.3)	18.9 (8.6)						60 (18.3)	14.2 (6.4)					
70 (21.3)	17.0 (7.7)						70 (21.3)	13.6 (6.2)					
80 (24.4)	15.3 (6.9)	17.2 (7.8)					80 (24.4)	12.9 (5.9)					
90 (27.4)	14.1 (6.4)	15.5 (7.0)					90 (27.4)	11.9 (5.4)	13.4 (6.1)				
100 (30.5)	13.0 (5.9)	14.1 (6.4)					100 (30.5)	10.9 (4.9)	12.1 (5.5)				
110 (33.5)	12.1 (5.5)	12.9 (5.9)	14.3 (6.5)				110 (33.5)	10.0 (4.5)	10.9 (4.9)				
120 (36.6)	11.4 (5.2)	12.0 (5.4)	13.0 (5.9)				120 (36.6)	9.3 (4.2)	10.0 (4.5)	11.1 (5.0)			
130 (39.6)	10.8 (4.9)	11.2 (5.1)	12.0 (5.4)	13.1 (5.9)			130 (39.6)	8.7 (3.9)	9.3 (4.2)	10.1 (4.6)			
140 (42.7)	10.3 (4.7)	10.6 (4.8)	11.2 (5.1)	12.1 (5.5)			140 (42.7)	7.9 (3.6)	8.6 (3.9)	9.3 (4.2)	10.3 (4.7)		
150 (45.7)	9.5 (4.3)	10.2 (4.6)	10.5 (4.8)	11.1 (5.0)	11.0 (5.0)		150 (45.7)	7.1 (3.2)	8.1 (3.7)	8.6 (3.9)	9.4 (4.3)		
160 (48.8)	8.2 (3.7)	9.7 (4.4)	10.0 (4.5)	10.5 (4.8)	9.9 (4.5)		160 (48.8)	6.5 (2.9)	7.7 (3.5)	8.1 (3.7)	8.6 (3.9)		
170 (51.8)		8.8 (4.0)	9.7 (4.4)	9.9 (4.5)	9.0 (4.1)		170 (51.8)	4.5 (2.0)	7.4 (3.4)	7.6 (3.4)	8.0 (3.6)	8.4 (3.8)	
180 (54.9)		6.9 (3.1)	9.2 (4.2)	9.1 (4.1)	8.2 (3.7)	7.1 (3.2)	180 (54.9)	2.4 (1.1)	5.4 (2.4)	7.2 (3.3)	7.6 (3.4)	7.6 (3.4)	
190 (57.9)			7.7 (3.5)	8.3 (3.8)	7.4 (3.4)	6.3 (2.9)	190 (57.9)		3.2 (1.5)	6.2 (2.8)	7.2 (3.3)	6.8 (3.1)	5.5 (2.5)
200 (61.0)				7.6 (3.4)	6.7 (3.0)	5.5 (2.5)	200 (61.0)			3.9 (1.8)	6.9 (3.1)	6.0 (2.7)	4.8 (2.2)
210 (64.0)					6.1 (2.8)	4.9 (2.2)	210 (64.0)				4.6 (2.1)	5.3 (2.4)	4.1 (1.9)
220 (67.1)						4.3 (2.0)	220 (67.1)				2.4 (1.1)	4.7 (2.1)	3.5 (1.6)
230 (70.1)							230 (70.1)					3.0 (1.4)	3.0 (1.4)
240 (73.2)							240 (73.2)						2.5 (1.1)

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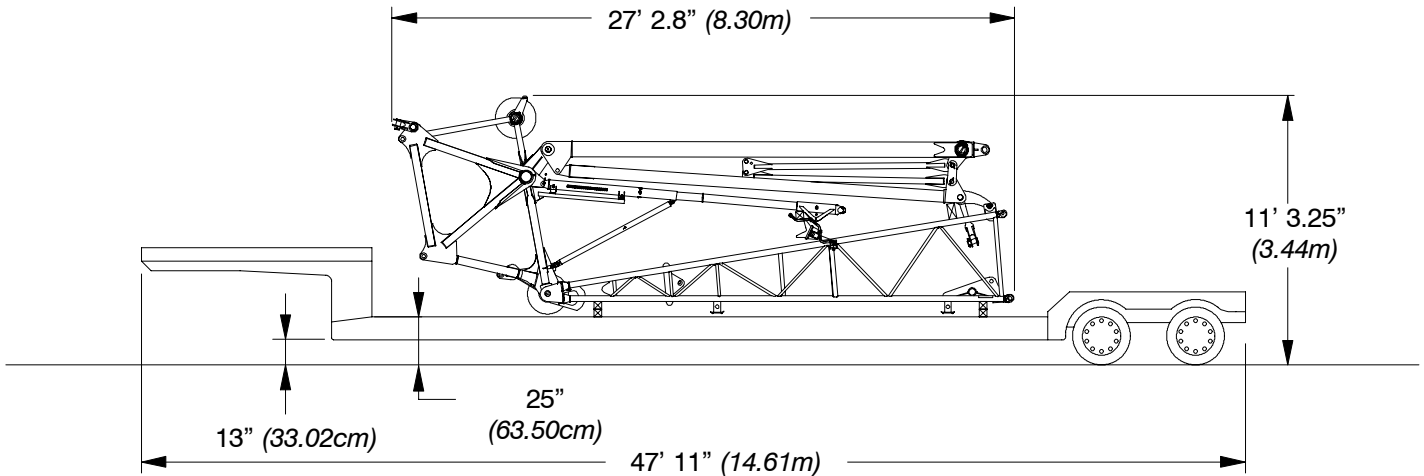
165 ft (50.3m) Luffing Boom Length – 30 ft (9.1m) Fixed Jib Length – 360° Rotation ABC + A Counterweight [92,000 lb (41.7mt) + 48,000 lb (21.8mt)] [All capacities are listed in kips (mt)]													
110 ft (33.5m) Luffing Jib Length							130 ft (39.6m) Luffing Jib Length						
Load Radius ft (m)	Luffing Boom Angle						Load Radius ft (m)	Luffing Boom Angle					
	90°	85°	80°	75°	70°	65°		90°	85°	80°	75°	70°	65°
47 (14.3)	18.0 (8.2)						47 (14.3)						
50 (15.2)	17.8 (8.1)						50 (15.2)						
60 (18.3)	17.0 (7.7)						60 (18.3)	12.7 (5.8)					
70 (21.3)	16.0 (7.3)						70 (21.3)	12.1 (5.5)					
80 (24.4)	15.0 (6.8)	16.7 (7.6)					80 (24.4)	11.4 (5.2)	14.1 (6.4)				
90 (27.4)	13.9 (6.3)	15.4 (7.0)					90 (27.4)	10.6 (4.8)	13.0 (5.9)				
100 (30.5)	12.8 (5.8)	14.2 (6.4)	15.5 (7.0)				100 (30.5)	9.8 (4.4)	12.0 (5.4)				
110 (33.5)	11.8 (5.4)	13.2 (6.0)	14.4 (6.5)				110 (33.5)	8.9 (4.0)	11.1 (5.0)	12.2 (5.5)			
120 (36.6)	10.8 (4.9)	12.2 (5.5)	13.4 (6.1)				120 (36.6)	8.2 (3.7)	10.3 (4.7)	11.4 (5.2)			
130 (39.6)	10.0 (4.5)	11.4 (5.2)	12.4 (5.6)	12.6 (5.7)			130 (39.6)	7.5 (3.4)	9.5 (4.3)	10.5 (4.8)			
140 (42.7)	9.4 (4.3)	10.6 (4.8)	11.6 (5.3)	11.9 (5.4)			140 (42.7)	6.8 (3.1)	8.8 (4.0)	9.8 (4.4)	9.8 (4.4)		
150 (45.7)		9.9 (4.5)	10.8 (4.9)	11.1 (5.0)	10.3 (4.7)		150 (45.7)	6.3 (2.9)	8.2 (3.7)	9.1 (4.1)	9.2 (4.2)		
160 (48.8)		8.7 (3.9)	9.8 (4.4)	10.2 (4.6)	9.3 (4.2)		160 (48.8)	5.9 (2.7)	7.6 (3.4)	8.4 (3.8)	8.7 (3.9)	7.9 (3.6)	
170 (51.8)			8.6 (3.9)	9.3 (4.2)	8.3 (3.8)		170 (51.8)		7.0 (3.2)	7.8 (3.5)	8.0 (3.6)	7.5 (3.4)	
180 (54.9)				8.4 (3.8)	7.4 (3.4)	5.8 (2.6)	180 (54.9)		6.2 (2.8)	7.0 (3.2)	7.3 (3.3)	6.6 (3.0)	
190 (57.9)				7.1 (3.2)	6.6 (3.0)	5.0 (2.3)	190 (57.9)			6.1 (2.8)	6.6 (3.0)	5.8 (2.6)	4.2 (1.9)
200 (61.0)					5.9 (2.7)	4.4 (2.0)	200 (61.0)				5.9 (2.7)	5.1 (2.3)	3.6 (1.6)
210 (64.0)						3.9 (1.8)	210 (64.0)				4.9 (2.2)	4.5 (2.0)	3.0 (1.4)
220 (67.1)							220 (67.1)					3.9 (1.8)	2.5 (1.1)
230 (70.1)							230 (70.1)						2.1 (1.0)

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.

165 ft (50.3m) Luffing Boom Length – 30 ft (9.1m) Fixed Jib Length – 360° Rotation ABC + A Counterweight [92,000 lb (41.7mt) + 48,000 lb (21.8mt)] [All capacities are listed in kips (mt)]													
140 ft (42.7m) Luffing Jib Length							150 ft (45.7m) Luffing Jib Length						
Load Radius ft (m)	Luffing Boom Angle						Load Radius ft (m)	Luffing Boom Angle					
	90°	85°	80°	75°	70°	65°		90°	85°	80°	75°	70°	65°
60 (18.3)	10.8 (4.9)						60 (18.3)	8.9 (4.0)					
70 (21.3)	10.3 (4.7)						70 (21.3)	8.5 (3.9)					
80 (24.4)	9.7 (4.4)						80 (24.4)	8.0 (3.6)					
90 (27.4)	9.0 (4.1)	11.9 (5.4)					90 (27.4)	7.5 (3.4)	10.4 (4.7)				
100 (30.5)	8.3 (3.8)	11.0 (5.0)					100 (30.5)	6.9 (3.1)	9.9 (4.5)				
110 (33.5)	7.6 (3.4)	10.1 (4.6)					110 (33.5)	6.3 (2.9)	9.1 (4.1)				
120 (36.6)	6.9 (3.1)	9.3 (4.2)	10.3 (4.7)				120 (36.6)	5.7 (2.6)	8.4 (3.8)	9.4 (4.3)			
130 (39.6)	6.2 (2.8)	8.6 (3.9)	9.6 (4.4)				130 (39.6)	5.1 (2.3)	7.8 (3.5)	8.6 (3.9)			
140 (42.7)	5.7 (2.6)	8.0 (3.6)	8.9 (4.0)	8.7 (3.9)			140 (42.7)	4.5 (2.0)	7.1 (3.2)	8.0 (3.6)			
150 (45.7)	5.1 (2.3)	7.4 (3.4)	8.2 (3.7)	8.3 (3.8)			150 (45.7)	4.0 (1.8)	6.4 (2.9)	7.4 (3.4)	7.3 (3.3)		
160 (48.8)	4.7 (2.1)	6.7 (3.0)	7.6 (3.4)	7.8 (3.5)			160 (48.8)	3.6 (1.6)	5.8 (2.6)	6.8 (3.1)	6.9 (3.1)		
170 (51.8)	4.4 (2.0)	6.0 (2.7)	7.1 (3.2)	7.2 (3.3)	6.6 (3.0)		170 (51.8)	3.3 (1.5)	5.1 (2.3)	6.3 (2.9)	6.5 (2.9)		
180 (54.9)		5.4 (2.4)	6.4 (2.9)	6.7 (3.0)	6.2 (2.8)		180 (54.9)	2.3 (1.0)	4.5 (2.0)	5.8 (2.6)	5.9 (2.7)	5.4 (2.4)	
190 (57.9)		5.0 (2.3)	5.7 (2.6)	6.1 (2.8)	5.4 (2.4)	3.8 (1.7)	190 (57.9)		3.7 (1.7)	5.2 (2.4)	5.4 (2.4)	5.0 (2.3)	
200 (61.0)			5.0 (2.3)	5.4 (2.4)	4.7 (2.1)	3.2 (1.5)	200 (61.0)			4.6 (2.1)	4.9 (2.2)	4.3 (2.0)	
210 (64.0)				4.8 (2.2)	4.1 (1.9)	2.6 (1.2)	210 (64.0)			2.8 (1.3)	4.3 (2.0)	3.7 (1.7)	
220 (67.1)				3.9 (1.8)	3.5 (1.6)	2.1 (1.0)	220 (67.1)				3.8 (1.7)	3.1 (1.4)	
230 (70.1)					3.0 (1.4)		230 (70.1)					2.6 (1.2)	
240 (73.2)							240 (73.2)					2.2 (1.0)	

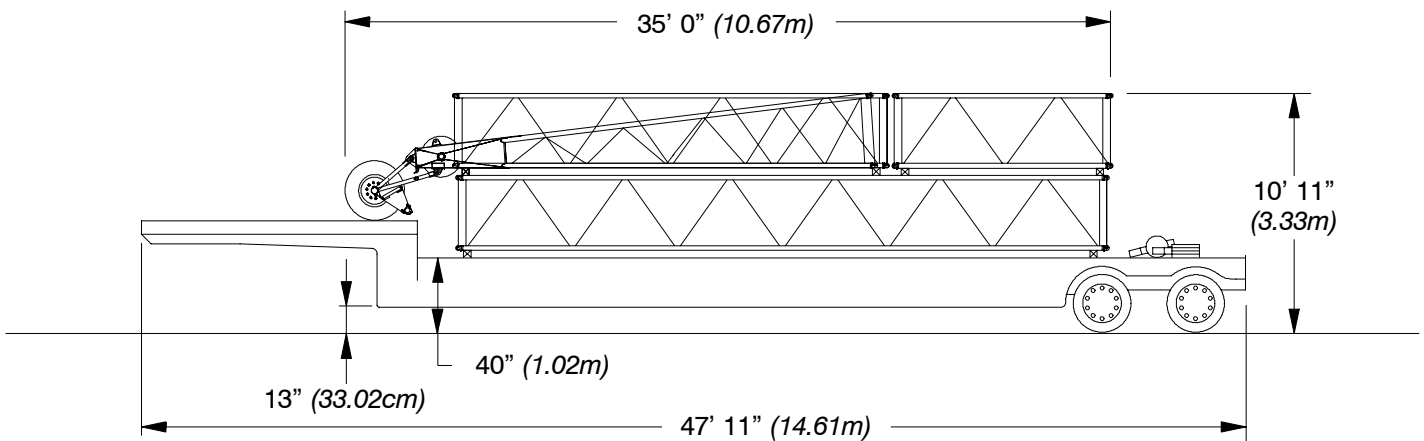
This material is supplied for reference use only. Operator must refer to in-cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly and operating procedures.

Luffing Attachment Transport



Luffing Attachment Shipping Module #1 – 8,250 lb (3 742kg)

Luffing jib base section, luffing boom top section, and the front and rear fan post.



Luffing Attachment Shipping Module #2 – 10,374 lb (4 706kg)

Luffing jib top section with nose wheel, 30 ft (9.14m) extension (2 each), 20 ft (6.10m) extension, 10 ft (3.05m) extension (2 each), 25 Ton (22.68mt) hook block and 15 Ton (13.6mt) hook ball.

Link-Belt Construction Equipment Company Lexington, Kentucky www.linkbelt.com

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LS-238H Lift Crane Capacities

PCSA Class 12-769
Refer to notes page 7

Boom — Tube; 62" (1.57 m) wide, 70" (1.78 m) deep with open throat top section and 26' (7.92 m) live mast.

Jib — Tube; 36" (.91 m) wide, 30" (.75m) deep.

Counterweights — Refer to chart below.

Mounting — crawler:
overall length: 23' 10-5/16" (7.27 m)
gauge: 15' 6" (4.72 m)

Counterweights					
"A"		"AB"		"ABC"	
Pounds	Kilograms	Pounds	kilograms	Pounds	Kilograms
23,000	10 433	42,330	19 201	69,000	31 298

Open throat boom or boom + jib machine can **lift off** ground unassisted, without load.

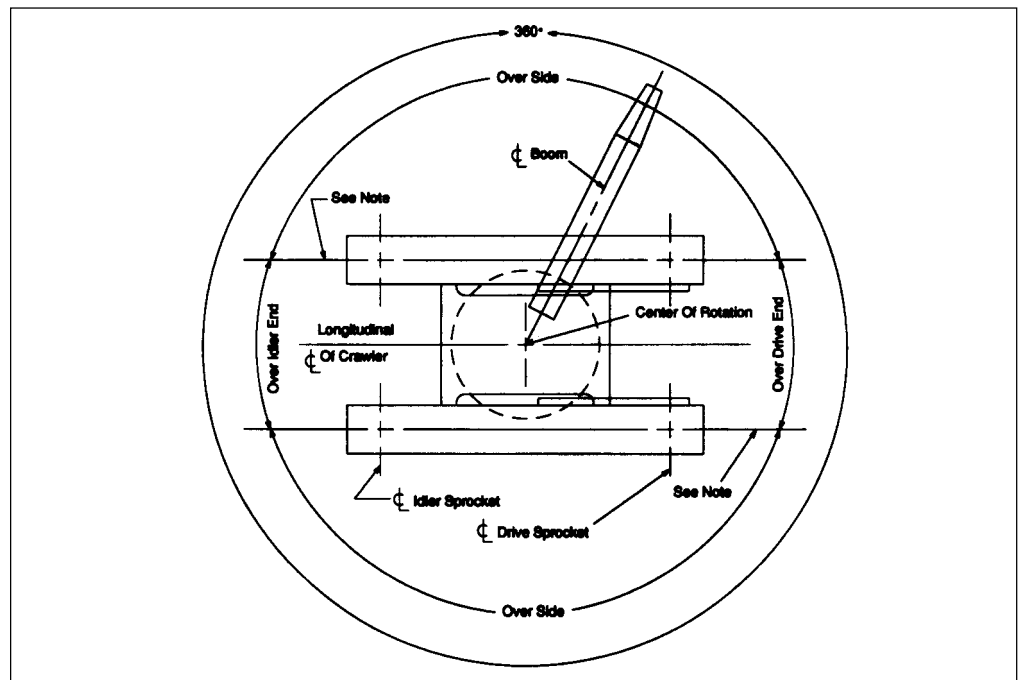
Counterweight		Over End - Blocked				Over Side or Over End Without Blocking			
		Boom		Boom + Jib		Boom		Boom + Jib	
		Feet	meters	Feet	meters	Feet	meters	Feet	meters
No cwt.	Maximum	160	48.77	130 + 60	39.62 + 18.29	130	39.62	110 + 40	33.53 + 12.19
Cwt. "A"	Maximum	190	57.91	170 + 40	51.82 + 12.19	170	51.82	140 + 50	42.67 + 15.24
Cwt. "AB"	Maximum	220	99.79	190 + 50	57.91 + 15.24	190	57.91	170 + 40	51.82 + 12.19
Cwt. "ABC"	Maximum	240	108.86	210 + 70	95.26 + 21.34	230	70.10	190 + 70	57.91 + 21.34

Notes:

- Booms must be erected or lowered over the end with no load.
- Crane on firm and level surface.

Working Areas

- These lines determine the limiting position of any load for operation within working areas indicated.



Caution: This material is for reference only. Operator must refer to in-cab capacity plate to determine allowable machine lifting capacities and operating procedures.

LS-238H Lift Crane Capacities

Boom Length (ft.)	Load Radius (ft.)	Boom Angle (deg.)	Capacity (thousands of lbs.) 360 Degree Rotation					Capacity (thousands of lbs.) Over End - Blocked		Load Radius (ft.)	
			"ABC" + 0 cwt.	"AB" + 0 cwt.	"A" + 0 cwt.	No cwt.	"ABC + 20,000 lb. cwt.	"ABC" + 0 cwt.	"ABC + 20,000 lb. cwt.		
35' [Ⓢ] (10.67m) Hammerhead Tip	10	82.0						300.0 *			
	15	72.9						225.9 *			
	20	63.2						154.4			
	25	52.3						108.7			
	30	39.1						83.1			
	35	17.6						54.7 *			
50' (15.24m)	12	79.6	250.0 *	250.0 *	235.3 *	181.5	250.0 *	250.0 *	250.0 *	250.0 *	12
	13	78.4	250.0 *	236.9 *	212.2	148.4	250.0 *	250.0 *	250.0 *	250.0 *	13
	14	77.2	238.0 *	221.1 *	179.5	125.3	238.0 *	238.0 *	238.0 *	238.0 *	14
	15	76.1	227.1 *	197.4	155.3	108.3	227.1 *	227.1 *	227.1 *	227.1 *	15
	16	74.9	215.3 *	174.0	136.8	95.3	215.3 *	215.3 *	215.3 *	215.3 *	16
	17	73.7	201.1	155.5	122.1	84.9	203.3 *	203.3 *	203.3 *	203.3 *	17
	18	72.5	181.8	140.4	110.2	76.5	192.5 *	192.5 *	192.5 *	192.5 *	18
	19	71.3	165.8	128.0	100.4	69.5	175.3	182.7 *	182.7 *	182.7 *	19
	20	70.1	152.3	117.5	92.1	63.7	161.0	173.9 *	173.9 *	173.9 *	20
	25	63.8	107.8	82.9	64.6	44.3	114.1	140.0 *	140.0 *	140.0 *	25
	30	57.3	82.9	63.5	49.3	33.5	87.8	110.0	116.4 *	116.4 *	30
35	50.1	67.1	51.1	39.5	26.6	71.1	87.3	93.1	93.1	35	
40	42.2	56.0	42.5	32.7	21.7	59.4	72.1	76.9	76.9	40	
50	19.8	41.6	31.3	23.8	15.4	44.2	46.8 *	46.8 *	46.8 *	50	
60' (18.29m)	14	79.4	234.7 *	220.6 *	180.2	126.1	234.7 *	234.7 *	234.7 *	234.7 *	14
	15	78.4	226.5 *	198.1	156.0	109.0	226.5 *	226.5 *	226.5 *	226.5 *	15
	16	77.4	214.9 *	174.6	137.4	95.8	214.9 *	214.9 *	214.9 *	214.9 *	16
	17	76.5	201.7	156.0	122.7	85.4	202.9 *	202.9 *	202.9 *	202.9 *	17
	18	75.5	182.3	140.9	110.7	77.0	192.2 *	192.2 *	192.2 *	192.2 *	18
	19	74.5	166.2	128.4	100.8	70.0	175.7	182.5 *	182.5 *	182.5 *	19
	20	73.5	152.7	117.9	92.5	64.1	161.4	173.7 *	173.7 *	173.7 *	20
	25	68.4	108.1	83.1	64.9	44.6	114.4	139.6 *	139.6 *	139.6 *	25
	30	63.2	83.2	63.8	49.6	33.7	88.1	110.3	116.4 *	116.4 *	30
	35	57.7	67.3	51.4	39.8	26.8	71.3	87.6	93.3	93.3	35
	40	51.9	56.2	42.8	32.9	21.9	59.6	72.3	77.2	77.2	40
50	38.4	41.9	31.6	24.0	15.6	44.5	53.2	56.8	56.8	50	
60	18.1	32.9	24.5	18.4	11.6	35.0	38.5 *	38.5 *	38.5 *	60	
70' (21.34m)	16	79.3	211.2 *	176.0	138.8	97.2	211.2 *	211.2 *	211.2 *	211.2 *	16
	17	78.4	202.9	157.3	123.9	86.7	203.0 *	203.0 *	203.0 *	203.0 *	17
	18	77.6	183.4	142.0	111.8	78.1	192.3 *	192.3 *	192.3 *	192.3 *	18
	19	76.7	167.2	129.4	101.8	71.0	176.8	182.6 *	182.6 *	182.6 *	19
	20	75.9	153.6	118.8	93.4	65.0	162.4	173.8 *	173.8 *	173.8 *	20
	25	71.6	108.8	83.8	65.6	45.3	115.1	139.8 *	139.8 *	139.8 *	25
	30	67.3	83.7	64.3	50.1	34.3	88.6	111.0	116.6 *	116.6 *	30
	35	62.8	67.7	51.8	40.2	27.2	71.7	88.1	93.9	93.9	35
	40	58.0	56.6	43.2	33.3	22.3	60.0	72.8	77.6	77.6	40
	50	47.8	42.2	31.9	24.4	16.0	44.8	53.5	57.1	57.1	50
	60	35.4	33.2	24.8	18.8	11.9	35.3	41.9	44.8	44.8	60
70	16.7	27.0	19.9	14.8	9.1	28.7	34.0	36.4	36.4	70	
80' (24.38m)	17	79.9	190.4 *	157.5	124.1	86.9	190.4 *	190.4 *	190.4 *	190.4 *	17
	18	79.2	183.6	142.2	112.0	78.3	188.0 *	188.0 *	188.0 *	188.0 *	18
	19	78.4	167.4	129.6	102.0	71.2	176.9	182.0 *	182.0 *	182.0 *	19
	20	77.7	153.8	119.0	93.5	65.2	162.5	173.3 *	173.3 *	173.3 *	20
	25	74.0	108.8	83.9	65.7	45.4	115.1	139.5 *	139.5 *	139.5 *	25
	30	70.2	83.7	64.3	50.1	34.3	88.6	111.1	116.3 *	116.3 *	30
	35	66.4	67.7	51.8	40.2	27.2	71.7	88.2	93.9	93.9	35
	40	62.4	56.6	43.1	33.3	22.3	60.0	72.8	77.6	77.6	40
	50	54.0	42.2	31.9	24.3	15.9	44.8	53.5	57.2	57.2	50
	60	44.5	33.2	24.8	18.7	11.9	35.3	41.9	44.8	44.8	60
	70	33.1	27.0	20.0	14.9	9.2	28.8	34.1	36.5	36.5	70
80	15.6	22.5	16.4	12.0	7.1	24.0	28.4	30.4	30.4	80	
90' (27.43m)	19	79.7	167.5	129.7	102.1	71.2	170.7 *	170.7 *	170.7 *	170.7 *	19
	20	79.1	153.8	119.0	93.6	65.2	162.6	168.5 *	168.5 *	168.5 *	20
	25	75.8	108.8	83.9	65.7	45.4	115.1	139.0 *	139.0 *	139.0 *	25
	30	72.5	83.7	64.3	50.1	34.3	88.6	111.1	116.0 *	116.0 *	30
	35	69.1	67.7	51.8	40.1	27.2	71.7	88.2	93.9	93.9	35
	40	65.7	56.5	43.1	33.2	22.2	59.9	72.8	77.6	77.6	40
	50	58.5	42.1	31.8	24.3	15.8	44.7	53.5	57.1	57.1	50
	60	50.7	33.1	24.8	18.7	11.9	35.2	41.8	44.7	44.7	60
	70	41.8	27.0	20.0	14.8	9.1	28.7	34.0	36.4	36.4	70
	80	31.1	22.5	16.4	12.0	7.1	24.0	28.4	30.4	30.4	80
90	14.7	19.0	13.7	9.8	5.5	20.4	24.1	25.9	25.9	90	

Ⓢ Requires hammerhead tip.

Boom Length (ft.)	Load Radius (ft.)	Boom Angle (deg.)	Capacity (thousands of lbs.) 360 Degree Rotation					Capacity (thousands of lbs.) Over End - Blocked		Load Radius (ft.)
			"ABC" + 0	"AB" + 0	"A" + 0	No	"ABC +	"ABC" + 0	"ABC +	
			ctwt.	ctwt.	ctwt.	ctwt.	20,000 lb. ctwt.	ctwt.	20,000 lb. ctwt.	
100' (30.48m)	21	79.6	142.2	110.0	86.4	60.1	150.3	154.0 *	154.0 *	21
	25	77.3	108.8	83.9	65.7	45.3	115.1	138.5 *	138.5 *	25
	30	74.3	83.6	64.2	50.0	34.2	88.5	111.1	115.6 *	30
	35	71.3	67.6	51.7	40.0	27.1	71.6	88.1	93.9	35
	40	68.3	56.4	43.0	33.1	22.1	59.8	72.7	77.5	40
	50	61.9	42.0	31.7	24.1	15.7	44.6	53.4	57.0	50
	60	55.2	33.0	24.6	18.5	11.7	35.1	41.7	44.6	60
	70	47.9	26.9	19.8	14.7	9.0	28.6	33.9	36.3	70
	80	39.6	22.4	16.3	11.9	7.0	23.9	28.3	30.4	80
	90	29.5	19.0	13.7	9.8	5.4	20.3	24.0	25.9	90
100	14.0	14.0	16.2	11.5	8.0	4.2	17.4	20.7	22.3	100
110' (33.53m)	23	79.5	123.3	95.2	74.7	51.7	130.4	139.7 *	139.7 *	23
	25	78.4	108.7	83.8	65.6	45.3	115.0	136.2 *	136.2 *	25
	30	75.8	83.5	64.1	49.9	34.1	88.4	111.0	115.1 *	30
	35	73.1	67.4	51.5	39.9	27.0	71.5	88.0	93.8	35
	40	70.3	56.3	42.8	33.0	22.0	59.7	72.6	77.4	40
	50	64.7	41.8	31.5	24.0	15.6	44.4	53.3	56.9	50
	60	58.8	32.8	24.5	18.4	11.6	34.9	41.6	44.5	60
	70	52.4	26.7	19.7	14.6	8.8	28.5	33.8	36.2	70
	80	45.5	22.2	16.2	11.8	6.8	23.8	28.2	30.2	80
	90	37.7	18.9	13.5	9.7	5.3	20.2	23.9	25.7	90
	100	28.1	16.2	11.4	8.0	4.1	17.4	20.6	22.2	100
110	13.3	13.9	9.7	6.5	3.0	15.0	17.9	19.3	110	
120' (36.58m)	24	79.9	115.5	89.1	69.8	48.2	122.2	128.0 *	128.0 *	24
	25	79.4	108.7	83.7	65.5	45.2	114.9	126.8 *	126.8 *	25
	30	77.0	83.4	64.0	49.8	34.0	88.3	111.0	112.5 *	30
	35	74.5	67.3	51.4	39.8	26.8	71.3	87.9	93.7	35
	40	72.0	56.1	42.7	32.8	21.9	59.5	72.5	77.3	40
	50	66.9	41.7	31.4	23.8	15.4	44.3	53.1	56.7	50
	60	61.6	32.7	24.3	18.2	11.4	34.8	41.4	44.3	60
	70	56.0	26.5	19.5	14.4	8.7	28.3	33.6	36.0	70
	80	50.1	22.1	16.0	11.6	6.7	23.6	28.0	30.1	80
	90	43.5	18.7	13.4	9.5	5.2	20.0	23.8	25.6	90
	100	36.0	16.0	11.3	7.8	3.9	17.2	20.5	22.1	100
	110	26.9	13.8	9.6	6.4	2.9	14.9	17.8	19.3	110
120	12.7	12.0	8.1	5.3	2.1	13.0	15.6	16.9	120	
130' (39.62m)	26	79.8	102.4	78.8	61.6	42.4	108.4	116.7 *	116.7 *	26
	30	78.0	83.3	63.9	49.7	33.9	88.2	108.7 *	108.7 *	30
	35	75.7	67.2	51.3	39.7	26.7	71.2	87.8	93.6	35
	40	73.4	56.0	42.5	32.7	21.7	59.4	72.4	77.2	40
	50	68.8	41.5	31.2	23.7	15.2	44.1	53.0	56.6	50
	60	64.0	32.5	24.1	18.0	11.2	34.6	41.3	44.2	60
	70	59.0	26.3	19.3	14.2	8.5	28.1	33.4	35.9	70
	80	53.7	21.9	15.8	11.4	6.5	23.4	27.8	29.9	80
	90	48.0	18.5	13.2	9.3	5.0	19.8	23.6	25.4	90
	100	41.7	15.8	11.1	7.6	3.8	17.0	20.3	21.9	100
	110	34.6	13.7	9.4	6.3	2.8	14.8	17.6	19.1	110
	120	25.8	11.9	8.0	5.1	2.1	12.9	15.5	16.8	120
	130	12.2	10.3	6.7	4.1	1.5	11.2	13.6	14.8	130
140' (42.76m)	28	79.7	91.8	70.5	55.0	37.6	97.2	105.9 *	105.9 *	28
	30	78.9	83.2	63.8	49.6	33.7	88.1	104.3 *	104.3 *	30
	35	76.8	67.0	51.1	39.5	26.5	71.0	87.7	90.8 *	35
	40	74.7	55.8	42.4	32.5	21.5	59.2	72.2	77.1	40
	50	70.4	41.3	31.0	23.5	15.1	43.9	52.8	56.4	50
	60	66.0	32.3	23.9	17.8	11.0	34.4	41.1	44.0	60
	70	61.4	26.1	19.1	14.0	8.3	27.9	33.3	35.7	70
	80	56.6	21.7	15.6	11.2	6.3	23.2	27.6	29.7	80
	90	51.6	18.3	13.0	9.1	4.8	19.6	23.4	25.2	90
	100	46.1	15.6	10.9	7.4	3.6	16.8	20.1	21.7	100
	110	40.1	13.5	9.2	6.1	2.6	14.6	17.5	18.9	110
	120	33.3	11.7	7.8	5.0	2.0	12.7	15.3	16.6	120
	130	24.8	10.2	6.6	4.0	1.5	11.1	13.4	14.7	130
	140	11.8	8.9	5.6	3.1	1.0	9.7	11.9	13.0	140

LS-238H Lift Crane Capacities

Boom Length (ft.)	Load Radius (ft.)	Boom Angle (deg.)	Capacity (thousands of lbs.) 360 Degree Rotation					Capacity (thousands of lbs.) Over End - Blocked		Load Radius (ft.)
			"ABC" + 0	"AB" + 0	"A" + 0	No	"ABC +	"ABC" + 0	"ABC +	
			ctwt.	ctwt.	ctwt.	ctwt.	20,000 lb. ctwt.	ctwt.	20,000 lb. ctwt.	
150' (45.72m)	30	79.6	83.0	63.6	49.4	33.6	87.9	97.0 *	97.0 *	30
	35	77.7	66.9	51.0	39.3	26.4	70.9	87.6	88.7 *	35
	40	75.7	55.6	42.2	32.3	21.4	59.0	72.1	76.9	40
	50	71.7	41.1	30.8	23.3	14.9	43.7	52.6	56.3	50
	60	67.6	32.1	23.7	17.6	10.8	34.2	40.9	43.8	60
	70	63.4	25.9	18.9	13.8	8.1	27.7	33.1	35.5	70
	80	59.1	21.5	15.4	11.0	6.1	23.0	27.4	29.5	80
	90	54.5	18.1	12.8	8.9	4.6	19.4	23.2	25.0	90
	100	49.7	15.4	10.7	7.2	3.4	16.6	19.9	21.5	100
	110	44.5	13.3	9.0	5.9	2.4	14.4	17.3	18.7	110
	120	38.7	11.5	7.6	4.7		12.5	15.1	16.4	120
	130	32.1	10.0	6.4	3.8		10.9	13.3	14.5	130
	140	24.0	8.7	5.4	3.0		9.5	11.7	12.8	140
	150	11.4	7.6	4.5	2.2		8.3	10.3	11.4	150
	160' (48.77m)	31	79.9	79.1	60.5	46.9	31.8	83.8	88.6 *	88.6 *
35		78.4	66.7	50.8	39.2	26.2	70.7	86.0 *	86.0 *	35
40		76.6	55.5	42.0	32.2	21.2	58.9	72.0	75.7 *	40
50		72.9	40.9	30.6	23.1	14.7	43.5	52.5	56.1	50
60		69.1	31.9	23.5	17.4	10.6	34.0	40.7	43.6	60
70		65.2	25.7	18.7	13.6	7.9	27.5	32.9	35.3	70
80		61.2	21.3	15.2	10.8	5.9	22.8	27.2	29.3	80
90		57.0	17.9	12.6	8.7	4.3	19.2	23.0	24.8	90
100		52.7	15.2	10.5	7.0	3.1	16.4	19.7	21.3	100
110		48.0	13.1	8.8	5.7	2.2	14.1	17.1	18.5	110
120		43.0	11.3	7.4	4.5		12.3	14.9	16.2	120
130		37.4	9.8	6.2	3.6		10.7	13.1	14.3	130
140		31.1	8.5	5.2	2.8		9.3	11.5	12.6	140
150		23.2	7.4	4.3	2.1		8.2	10.2	11.2	150
160		11.0	6.4	3.5			7.1	9.0	9.9	160
170' (51.82m)	33	79.8	72.3	55.1	42.6		76.6	81.3 *	81.3 *	33
	35	79.1	66.5	50.6	39.0		70.5	80.1 *	80.1 *	35
	40	77.4	55.3	41.8	32.0		58.7	71.8	73.4 *	40
	50	73.9	40.7	30.4	22.9		43.3	52.3	55.9	50
	60	70.4	31.7	23.3	17.2		33.8	40.5	43.4	60
	70	66.8	25.5	18.5	13.4		27.3	32.7	35.1	70
	80	63.0	21.0	15.0	10.6		22.6	27.0	29.1	80
	90	59.2	17.6	12.3	8.4		19.0	22.8	24.6	90
	100	55.2	15.0	10.2	6.8		16.2	19.5	21.1	100
	110	51.0	12.8	8.5	5.4		13.9	16.8	18.3	110
	120	46.5	11.1	7.2	4.3		12.0	14.7	16.0	120
	130	41.6	9.6	6.0	3.4		10.5	12.8	14.1	130
	140	36.3	8.3	5.0	2.6		9.1	11.3	12.4	140
	150	30.1	7.2	4.1			8.0	10.0	11.0	150
	160	22.5	6.2	3.3			6.9	8.8	9.8	160
170	10.7	5.3	2.6			6.0	7.7	8.5 *	170	
180' (54.86m)	35	79.7	66.4	50.4	38.8		70.4	71.6 *	71.6 *	35
	40	78.1	55.1	41.6	31.8		58.5	71.1 *	71.1 *	40
	50	74.8	40.5	30.2	22.7		43.1	52.1	55.7	50
	60	71.5	31.4	23.1	17.0		33.6	40.3	43.2	60
	70	68.1	25.3	18.3	13.1		27.0	32.4	34.9	70
	80	64.7	20.8	14.8	10.3		22.3	26.8	28.9	80
	90	61.1	17.4	12.1	8.2		18.8	22.6	24.4	90
	100	57.4	14.7	10.0	6.5		15.9	19.3	20.9	100
	110	53.5	12.6	8.3	5.2		13.7	16.6	18.1	110
	120	49.4	10.8	6.9	4.1		11.8	14.4	15.8	120
	130	45.1	9.3	5.8	3.1		10.2	12.6	13.8	130
	140	40.4	8.1	4.8	2.3		8.9	11.1	12.2	140
	150	35.2	7.0	3.9			7.7	9.8	10.8	150
	160	29.3	6.0	3.1			6.7	8.6	9.6	160
	170	21.9	5.2	2.5			5.8	7.6	8.5	170
180	10.4	4.4				5.0	6.6	7.1 *	180	

Boom Length (ft.)	Load Radius (ft.)	Boom Angle (deg.)	Capacity (thousands of lbs.) 360 Degree Rotation					Capacity (thousands of lbs.) Over End - Blocked			Load Radius (ft.)
			"ABC" + 0	"AB" + 0	"A" + 0	No	"ABC +	"ABC" + 0	"ABC +		
			ctwt.	ctwt.	ctwt.	ctwt.	20,000 lb. ctwt.	ctwt.	20,000 lb. ctwt.		
190' (57.91m)	36	80.0	62.7 *	48.3	37.0		62.7 *	62.7 *	62.7 *	36	
	40	78.8	54.9	41.4	31.6		58.3	62.4 *	62.4 *	40	
	50	75.7	40.3	30.0	22.5		42.9	51.9	55.5	50	
	60	72.5	31.2	22.9	16.8		33.3	40.1	43.0	60	
	70	69.3	25.1	18.0	12.9		26.8	32.2	34.6	70	
	80	66.1	20.6	14.5	10.1		22.1	26.6	28.7	80	
	90	62.7	17.2	11.9	8.0		18.5	22.3	24.2	90	
	100	59.3	14.5	9.8	6.3		15.7	19.0	20.6	100	
	110	55.7	12.4	8.1	5.0		13.4	16.4	17.8	110	
	120	52.0	10.6	6.7	3.8		11.6	14.2	15.5	120	
	130	48.0	9.1	5.5	2.9		10.0	12.4	13.6	130	
	140	43.8	7.8	4.5	2.1		8.7	10.9	12.0	140	
	150	39.3	6.7	3.7			7.5	9.5	10.6	150	
	160	34.3	5.8	2.9			6.5	8.4	9.3	160	
	170	28.5	4.9	2.2			5.6	7.4	8.3	170	
	180	21.3	4.2				4.8	6.4	7.3	180	
190	10.1	3.5				4.1	5.6	5.9 *	190		
200' (60.96m)	38	79.9	55.4 *	44.4			55.4 *	55.4 *	55.4 *	38	
	40	79.3	54.7	41.2			55.4 *	55.4 *	55.4 *	40	
	50	76.4	40.1	29.8			42.7	51.3 *	51.3 *	50	
	60	73.4	31.0	22.7			33.1	39.9	42.8	60	
	70	70.4	24.8	17.8			26.6	32.0	34.4	70	
	80	67.3	20.3	14.3			21.9	26.4	28.4	80	
	90	64.2	16.9	11.6			18.3	22.1	23.9	90	
	100	61.0	14.3	9.5			15.5	18.8	20.4	100	
	110	57.6	12.1	7.8			13.2	16.1	17.6	110	
	120	54.2	10.3	6.4			11.3	14.0	15.3	120	
	130	50.6	8.9	5.3			9.8	12.2	13.4	130	
	140	46.7	7.6	4.3			8.4	10.6	11.7	140	
	150	42.7	6.5	3.4			7.3	9.3	10.3	150	
	160	38.3	5.5	2.7			6.3	8.1	9.1	160	
	170	33.4	4.7	2.0			5.4	7.1	8.0	170	
	180	27.7	4.0				4.6	6.2	7.1	180	
190	20.7	3.3				3.9	5.4	6.2	190		
200	9.9	2.6				3.2	4.7	4.7 *	200		
210' (64.01m)	40	79.8	49.3 *	41.0			49.3 *	49.3 *	49.3 *	40	
	50	77.1	39.9	29.6			42.5	45.6 *	45.6 *	50	
	60	74.2	30.8	22.4			32.9	39.7	40.4 *	60	
	70	71.4	24.6	17.6			26.4	31.8	34.2	70	
	80	68.5	20.1	14.1			21.6	26.1	28.2	80	
	90	65.5	16.7	11.4			18.0	21.9	23.7	90	
	100	62.5	14.0	9.3			15.2	18.6	20.2	100	
	110	59.4	11.9	7.6			13.0	15.9	17.4	110	
	120	56.1	10.1	6.2			11.1	13.7	15.1	120	
	130	52.8	8.6	5.0			9.5	11.9	13.1	130	
	140	49.3	7.3	4.0			8.2	10.4	11.5	140	
	150	45.6	6.3	3.2			7.0	9.1	10.1	150	
	160	41.6	5.3	2.4			6.0	7.9	8.9	160	
	170	37.3	4.5				5.1	6.9	7.8	170	
	180	32.5	3.7				4.4	6.0	6.8	180	
	190	27.0	3.1				3.7	5.2	6.0	190	
200	20.2	2.4				3.0	4.5	5.2	200		
210	9.6					2.4	3.6 *	3.6 *	210		

LS-238H Lift Crane Capacities

Boom Length (ft.)	Load Radius (ft.)	Boom Angle (deg.)	Capacity (thousands of lbs.) 360 Degree Rotation					Capacity (thousands of lbs.) Over End - Blocked			Load Radius (ft.)
			"ABC" + 0	"AB" + 0	"A" + 0	No	"ABC +	"ABC" + 0	"ABC +		
			ctwt.	ctwt.	ctwt.	ctwt.	20,000 lb. ctwt.	ctwt.	20,000 lb. ctwt.		
220' (67.06m)	42	79.8	43.3 *	38.0			43.3 *	43.3 *	43.3 *	42	
	50	77.7	39.6	29.3			40.3 *	40.3 *	40.3 *	50	
	60	75.0	30.5	22.2			32.7	36.3 *	36.3 *	60	
	70	72.3	24.4	17.3			26.1	31.6	32.2 *	70	
	80	69.5	19.9	13.8			21.4	25.9	28.0	80	
	90	66.7	16.5	11.1			17.8	21.6	23.5	90	
	100	63.8	13.8	9.0			15.0	18.3	19.9	100	
	110	60.9	11.6	7.3			12.7	15.7	17.1	110	
	120	57.9	9.9	6.0			10.8	13.5	14.8	120	
	130	54.7	8.4	4.8			9.3	11.7	12.9	130	
	140	51.5	7.1	3.8			7.9	10.1	11.2	140	
	150	48.1	6.0	2.9			6.8	8.8	9.8	150	
	160	44.5	5.1	2.2			5.8	7.7	8.6	160	
	170	40.6	4.2				4.9	6.6	7.6	170	
	180	36.4	3.5				4.1	5.7	6.6	180	
	190	31.8	2.8				3.4	4.9	5.8	190	
	200	26.4	2.2				2.8	4.2	5.0	200	
210	19.8					2.2	3.6	4.1 *	210		
220	9.4						2.6 *	2.6 *	220		
230' (70.10m)	43	80.0	38.7 *				38.7 *	38.7 *	38.7 *	43	
	50	78.2	36.1 *				36.1 *	36.1 *	36.1 *	50	
	60	75.6	30.3				32.4	32.5 *	32.5 *	60	
	70	73.1	24.1				25.9	28.8 *	28.8 *	70	
	80	70.4	19.6				21.1	25.7	25.7 *	80	
	90	67.8	16.2				17.6	21.4	22.5 *	90	
	100	65.0	13.5				14.7	18.1	19.7	100	
	110	62.3	11.4				12.5	15.4	16.9	110	
	120	59.4	9.6				10.6	13.2	14.6	120	
	130	56.5	8.1				9.0	11.4	12.6	130	
	140	53.4	6.8				7.7	9.9	11.0	140	
	150	50.3	5.8				6.5	8.6	9.6	150	
	160	46.9	4.8				5.5	7.4	8.4	160	
	170	43.4	4.0				4.6	6.4	7.3	170	
	180	39.7	3.2				3.9	5.5	6.4	180	
	190	35.6	2.6				3.2	4.7	5.5 *	190	
	200	31.0	2.0				2.5	4.0	4.0 *	200	
210	25.8					2.0	3.3	2.6 *	210		
220	19.3						2.7		220		
230	9.2								230		
240' (73.15m)	45	79.9	34.0 *				34.0 *	34.0 *	34.0 *	45	
	50	78.7	32.3 *				32.3 *	32.3 *	32.3 *	50	
	60	76.2	29.1 *				29.1 *	29.1 *	29.1 *	60	
	70	73.8	23.9				25.6	25.8 *	25.8 *	70	
	80	71.3	19.4				20.9	22.4 *	22.4 *	80	
	90	68.7	16.0				17.3	20.0 *	20.0 *	90	
	100	66.1	13.3				14.5	17.8	17.9 *	100	
	110	63.5	11.1				12.2	15.2	16.1 *	110	
	120	60.8	9.3				10.3	13.0	14.3	120	
	130	58.0	7.9				8.8	11.2	12.4 *	130	
	140	55.2	6.6				7.4	9.6	10.6 *	140	
	150	52.2	5.5				6.3	8.3	9.1 *	150	
	160	49.1	4.6				5.3	7.2	7.7 *	160	
	170	45.9	3.7				4.4	6.1	6.5 *	170	
	180	42.5	3.0				3.6	5.3	5.5 *	180	
	190	38.8	2.3				2.9	4.5	4.0 *	190	
	200	34.8					2.3	3.6 *	2.6 *	200	
210	30.4						2.8 *		210		
220	25.3						2.1 *		220		
230	18.9								230		
240	9.0								240		

LS-238H Lift Crane Capacity Notes

General:

1. Rated lifting capacities in pounds as shown on lift charts pertain to the 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 the crane must be in compliance with the information in the Operator's, Parts and Safety Manuals supplied with the crane. If these manuals are missing, order replacements through the distributor.
3. The operator and other personnel associated with the crane shall read and fully understand the latest applicable American National Standards Institute (ANSI) safety standards for cranes.
4. The maximum allowable lifting capacities are based on crane standing level on firm supporting surface.
5. All capacities listed are in compliance with ASME/ANSI B30.5b-1994, SAE J987-April 1991, and SAE J765-October 1990.

Set-Up:

1. 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 crawler side frames to spread the load to a larger bearing surface.
2. For required parts of line, see wire rope strength and winch performance tables in Crane Rating Manual.

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, sling, grapple, load weighing device, etc. When using main hook while jib is attached, reduce capacities by values shown in Crane Rating Manual. See Operator's Manual for all limitations when raising or lowering attachment.
2. The capacities marked with an asterisk (*) are based on factors other than those which would cause a tipping condition.
3. For recommended reeving, parts of line, wire rope type and wire rope inspection, see wire rope strength chart, Operator's Manual and Parts Manual.
4. Load ratings 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. The 26' (7.92 m) live mast must be used for all capacities listed.
6. The least stable rated condition is over the side.
7. Booms must be erected and lowered over the end.
8. Main boom length must not exceed 240' (73.15 m).
9. Do not operate at radii and boom lengths where the Crane Rating Manual lists no capacity. Do not use longer booms or jibs than those listed in the Crane Rating Manual. Any of the above can cause a tipping condition, or boom and jib failure.
10. These capacities apply only to the crane as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.

For Over End Capacities Only:

1. These capacities can be lifted over either end with crane standing level on firm supporting surface with adequate blocking placed under the tread member sprockets/idlers at the lift off end, to prevent rocking.
2. Do not travel with a load.

LS-238H Working Range

Link-Belt Construction Equipment Company Lexington, Kentucky

A unit of Sumitomo Construction Machinery Co., Ltd.

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Courtesy of Crane.Market

LS-238H Tubular Jib Capacities

Capacities shown in thousands of pounds

62" x 70" (1.57 x 1.78 m) Tube Boom - 30" x 36" (.75 x .91 m) Tube Jib - 360° Rotation

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctw.	ABC+0 Ctw.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctw.	ABC+0 Ctw.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctw.	ABC+0 Ctw.
50	30	17	79.9	85.6	30.0*	30.0*								
50	30	18	79.2	85.4	29.8*	29.8*								
50	30	19	78.4	85.2	29.6*	29.6*								
50	30	20	77.7	84.9	29.4*	29.4*								
50	30	25	74.0	83.7	28.3*	28.3*	79.5	83.6	26.4*	26.4*				
50	30	30	70.2	82.0	27.2*	27.2*	75.7	82.0	25.4*	25.4*				
50	30	35	66.4	80.0	26.1*	26.1*	71.8	80.1	24.3*	24.3*	76.7	78.7	21.3*	21.3*
50	30	40	62.4	77.6	25.0*	25.0*	67.8	77.7	23.3*	23.3*	72.6	76.3	19.7*	19.7*
50	30	50	54.0	71.3	22.8*	22.8*	59.3	71.6	20.5*	20.5*	63.8	70.0	17.0*	17.0*
50	30	60	44.5	62.7	19.4*	19.4*	49.7	63.0	16.7*	16.7*	53.7	61.1	15.2*	15.2*
50	30	70	33.1	50.2	15.8*	15.8*	38.0	50.4	15.3*	15.3*				
50	40	19	79.7	95.2	26.7*	26.7*								
50	40	20	79.1	95.0	26.5*	26.5*								
50	40	25	75.8	93.8	25.6*	25.6*								
50	40	30	72.5	92.3	24.7*	24.7*	79.0	92.2	23.3*	23.3*				
50	40	35	69.1	90.5	23.8*	23.8*	75.6	90.5	21.8*	21.8*				
50	40	40	65.7	88.3	22.7*	22.7*	72.1	88.5	20.3*	20.3*	78.1	86.8	17.0*	17.0*
50	40	50	58.5	82.9	19.5*	19.5*	64.8	83.2	17.1*	17.1*	70.5	81.5	14.5*	14.5*
50	40	60	50.7	75.6	16.3*	16.3*	56.9	76.1	14.5*	14.5*	62.3	74.1	12.0*	12.0*
50	40	70	41.8	65.9	13.5*	13.5*	48.0	66.4	11.8*	11.8*	52.9	64.0	10.9*	10.9*
50	40	80	31.1	52.2	11.3*	11.3*	37.0	52.6	10.6*	10.6*				
50	50	25	77.3	104.0	23.3*	23.3*								
50	50	30	74.3	102.7	22.5*	22.5*								
50	50	35	71.3	101.1	21.7*	21.7*	78.6	101.1	20.4*	20.4*				
50	50	40	68.3	99.2	20.9*	20.9*	75.6	99.3	18.8*	18.8*				
50	50	50	61.9	94.4	17.9*	17.9*	69.2	94.7	15.3*	15.3*	75.9	92.9	12.0*	12.0*
50	50	60	55.2	88.1	14.2*	14.2*	62.4	88.6	12.0*	12.0*	68.8	86.7	10.2*	10.2*
50	50	70	47.9	80.0	11.4*	11.4*	54.9	80.7	10.1*	10.1*	61.0	78.5	8.4*	8.4*
50	50	80	39.6	69.4	9.3*	9.3*	46.5	70.1	8.3*	8.3*	52.1	67.4	7.5*	7.5*
50	50	90	29.5	54.7	7.8*	7.8*	36.1	55.3	7.2*	7.2*				
50	60	25	78.4	114.4	21.2*	21.2*								
50	60	30	75.8	113.2	20.5*	20.5*								
50	60	35	73.1	111.7	19.8*	19.8*								
50	60	40	70.3	110.0	19.1*	19.1*	78.3	110.3	18.0*	18.0*				
50	60	50	64.7	105.8	17.1*	17.1*	72.6	106.3	14.6*	14.6*				
50	60	60	58.8	100.3	13.5*	13.5*	66.6	101.0	11.0*	11.0*	73.9	99.1	8.4*	8.4*
50	60	70	52.4	93.4	9.7*	9.7*	60.3	94.2	8.4*	8.4*	67.3	92.2	7.1*	7.1*
50	60	80	45.5	84.5	7.8*	7.8*	53.2	85.6	7.0*	7.0*	59.9	83.2	5.8*	5.8*
50	60	90	37.7	73.2	6.3*	6.3*	45.2	74.2	5.8*	5.8*	51.4	71.2	5.3*	5.3*
50	60	100	28.1	57.6	5.4*	5.4*	35.3	58.4	5.1*	5.1*				
50	70	25	79.4	124.8	18.8*	18.8*								
50	70	30	77.0	123.8	18.1*	18.1*								
50	70	35	74.5	122.5	17.5*	17.5*								
50	70	40	72.0	121.0	16.8*	16.8*								
50	70	50	66.9	117.2	15.4*	15.4*	75.5	117.8	14.2*	14.2*				
50	70	60	61.6	112.4	13.3*	13.3*	70.1	113.2	11.7*	11.7*	78.1	111.4	9.2*	9.2*

LS-238H Tubular Jib Capacities

Capacities shown in thousands of pounds

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.
50	70	70	56.0	106.3	10.7*	10.7*	64.5	107.4	9.0*	9.0*	72.3	105.5	7.3*	7.3*
50	70	80	50.1	98.8	7.9*	7.9*	58.4	100.0	7.2*	7.2*	65.9	98.0	6.0*	6.0*
50	70	90	43.5	89.4	6.6*	6.6*	51.7	90.8	5.9*	5.9*	58.9	88.3	4.8*	4.8*
50	70	100	36.0	77.3	5.1*	5.1*	44.1	78.7	4.7*	4.7*	50.8	75.6	4.3*	4.3*
50	70	110	26.9	61.0	4.4*	4.4*	34.7	62.1	4.1*	4.1*				
60	30	19	79.7	95.4	29.9*	29.9*								
60	30	20	79.1	95.2	29.8*	29.8*								
60	30	25	75.8	94.0	28.8*	28.8*								
60	30	30	72.5	92.6	27.9*	27.9*	77.4	92.5	25.8*	25.8*				
60	30	35	69.1	90.8	26.9*	26.9*	74.0	90.8	24.9*	24.9*	78.4	89.3	21.9*	21.9*
60	30	40	65.7	88.7	25.9*	25.9*	70.5	88.8	24.0*	24.0*	74.8	87.3	20.3*	20.3*
60	30	50	58.5	83.4	24.0*	24.0*	63.2	83.5	22.0*	22.0*	67.3	82.0	17.8*	17.8*
60	30	60	50.7	76.2	21.9*	21.9*	55.3	76.5	18.9*	18.9*	59.1	74.7	15.8*	15.8*
60	30	70	41.8	66.6	18.4*	18.4*	46.3	66.8	15.9*	15.9*	49.7	64.6	14.6*	14.6*
60	30	80	31.1	53.0	15.6*	15.6*	35.4	53.1	15.1*	15.1*				
60	40	25	77.3	104.1	26.0*	26.0*								
60	40	30	74.3	102.8	25.2*	25.2*								
60	40	35	71.3	101.2	24.4*	24.4*	77.1	101.1	22.5*	22.5*				
60	40	40	68.3	99.3	23.6*	23.6*	74.1	99.3	21.1*	21.1*	79.4	97.4	17.6*	17.6*
60	40	50	61.9	94.5	21.1*	21.1*	67.7	94.6	18.3*	18.3*	72.8	92.8	15.3*	15.3*
60	40	60	55.2	88.2	18.1*	18.1*	60.9	88.5	15.7*	15.7*	65.8	86.5	13.1*	13.1*
60	40	70	47.9	80.2	15.4*	15.4*	53.5	80.5	13.4*	13.4*	58.1	78.3	11.5*	11.5*
60	40	80	39.6	69.6	12.8*	12.8*	45.0	70.0	11.5*	11.5*	49.1	67.2	10.5*	10.5*
60	40	90	29.5	54.9	11.1*	11.1*	34.6	55.1	10.3*	10.3*				
60	50	25	78.4	114.3	23.7*	23.7*								
60	50	30	75.8	113.1	22.9*	22.9*								
60	50	35	73.1	111.6	22.2*	22.2*	79.7	111.6	20.8*	20.8*				
60	50	40	70.3	109.9	21.5*	21.5*	77.0	109.9	19.5*	19.5*				
60	50	50	64.7	105.6	19.4*	19.4*	71.3	105.8	16.4*	16.4*	77.3	103.8	12.4*	12.4*
60	50	60	58.8	100.1	16.1*	16.1*	65.3	100.5	13.1*	13.1*	71.1	98.4	10.8*	10.8*
60	50	70	52.4	93.1	12.7*	12.7*	58.9	93.6	11.1*	11.1*	64.5	91.3	9.1*	9.1*
60	50	80	45.5	84.3	10.8*	10.8*	51.9	84.9	9.3*	9.3*	57.1	82.3	8.0*	8.0*
60	50	90	37.7	72.9	8.8*	8.8*	43.9	73.5	8.0*	8.0*	48.6	70.2	7.1*	7.1*
60	50	100	28.1	57.3	7.6*	7.6*	34.0	57.6	7.0*	7.0*				
60	60	25	79.4	124.6	21.5*	21.5*								
60	60	30	77.0	123.5	20.8*	20.8*								
60	60	35	74.5	122.2	20.2*	20.2*								
60	60	40	72.0	120.6	19.5*	19.5*	79.4	120.7	18.3*	18.3*				
60	60	50	66.9	116.8	18.2*	18.2*	74.2	117.1	15.6*	15.6*				
60	60	60	61.6	111.9	15.2*	15.2*	68.8	112.4	12.4*	12.4*	75.5	110.3	8.8*	8.8*
60	60	70	56.0	105.7	11.9*	11.9*	63.2	106.4	9.0*	9.0*	69.7	104.2	7.6*	7.6*
60	60	80	50.1	98.1	8.7*	8.7*	57.1	98.9	7.7*	7.7*	63.3	96.5	6.3*	6.3*
60	60	90	43.5	88.6	7.4*	7.4*	50.5	89.5	6.4*	6.4*	56.3	86.7	5.6*	5.6*
60	60	100	36.0	76.5	5.9*	5.9*	42.8	77.4	5.6*	5.6*	48.1	73.7	5.1*	5.1*
60	60	110	26.9	60.0	5.3*	5.3*	33.4	60.6	5.0*	5.0*				

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.
60	70	30	78.0	134.0	18.4*	18.4*								
60	70	35	75.7	132.8	17.8*	17.8*								
60	70	40	73.4	131.4	17.2*	17.2*								
60	70	50	68.8	128.0	15.9*	15.9*	76.7	128.5	14.7*	14.7*				
60	70	60	64.0	123.6	14.4*	14.4*	71.8	124.3	12.5*	12.5*	79.2	122.2	9.6*	9.6*
60	70	70	59.0	118.2	12.1*	12.1*	66.7	119.0	10.1*	10.1*	73.9	116.9	7.6*	7.6*
60	70	80	53.7	111.5	9.6*	9.6*	61.4	112.5	7.8*	7.8*	68.3	110.3	6.5*	6.5*
60	70	90	48.0	103.3	7.5*	7.5*	55.6	104.5	6.6*	6.6*	62.3	102.0	5.3*	5.3*
60	70	100	41.7	93.3	6.3*	6.3*	49.2	94.5	5.4*	5.4*	55.6	91.5	4.6*	4.6*
60	70	110	34.6	80.5	4.9*	4.9*	41.9	81.7	4.6*	4.6*	47.7	77.8	4.1*	4.1*
60	70	120	25.8	63.3	4.3*	4.3*	32.8	64.1	4.0*	4.0*				
70	30	25	77.3	104.3	29.2*	29.2*								
70	30	30	74.3	103.0	28.4*	28.4*	78.7	102.9	26.2*	26.2*				
70	30	35	71.3	101.5	27.5*	27.5*	75.7	101.4	25.4*	25.4*	79.6	99.8	22.4*	22.4*
70	30	40	68.3	99.6	26.7*	26.7*	72.6	99.6	24.5*	24.5*	76.5	98.0	20.9*	20.9*
70	30	50	61.9	94.9	24.9*	24.9*	66.2	95.0	22.8*	22.8*	69.9	93.4	18.5*	18.5*
70	30	60	55.2	88.8	23.1*	23.1*	59.4	88.9	20.6*	20.6*	62.9	87.2	16.7*	16.7*
70	30	70	47.9	80.8	20.8*	20.8*	52.0	81.0	17.6*	17.6*	55.2	79.0	15.3*	15.3*
70	30	80	39.6	70.3	17.5*	17.5*	43.6	70.5	15.7*	15.7*	46.4	68.0	14.2*	14.2*
70	30	90	29.5	55.7	15.5*	15.5*	33.2	55.7	15.0*	15.0*				
70	40	25	78.4	114.4	26.3*	26.3*								
70	40	30	75.8	113.2	25.6*	25.6*								
70	40	35	73.1	111.7	24.9*	24.9*	78.4	111.5	23.0*	23.0*				
70	40	40	70.3	110.0	24.2*	24.2*	75.6	109.9	21.8*	21.8*				
70	40	50	64.7	105.7	22.3*	22.3*	69.9	105.8	19.3*	19.3*	74.6	103.8	15.8*	15.8*
70	40	60	58.8	100.2	19.7*	19.7*	63.9	100.4	16.6*	16.6*	68.4	98.3	13.9*	13.9*
70	40	70	52.4	93.3	16.9*	16.9*	57.5	93.5	14.6*	14.6*	61.8	91.3	11.9*	11.9*
70	40	80	45.5	84.4	14.7*	14.7*	50.5	84.8	12.5*	12.5*	54.5	82.2	11.1*	11.1*
70	40	90	37.7	73.1	12.2*	12.2*	42.5	73.4	11.2*	11.2*				
70	40	100	28.1	57.5	11.0*	11.0*								
70	50	25	79.4	124.5	23.9*	23.9*								
70	50	30	77.0	123.4	23.3*	23.3*								
70	50	35	74.5	122.1	22.6*	22.6*								
70	50	40	72.0	120.5	21.9*	21.9*	78.1	120.4	20.1*	20.1*				
70	50	50	66.9	116.6	20.6*	20.6*	73.0	116.7	17.3*	17.3*	78.5	114.5	13.1*	13.1*
70	50	60	61.6	111.7	17.7*	17.7*	67.6	111.9	14.4*	14.4*	73.0	109.7	11.3*	11.3*
70	50	70	56.0	105.5	14.7*	14.7*	62.0	105.9	11.9*	11.9*	67.1	103.5	9.8*	9.8*
70	50	80	50.1	97.8	11.9*	11.9*	55.9	98.3	10.3*	10.3*	60.8	95.7	8.4*	8.4*
70	50	90	43.5	88.3	10.2*	10.2*	49.2	88.9	8.6*	8.6*	53.8	85.8	7.7*	7.7*
70	50	100	36.0	76.2	8.5*	8.5*	41.6	76.6	7.8*	7.8*				
70	50	110	26.9	59.7	7.5*	7.5*								
70	60	30	78.0	133.8	21.1*	21.1*								
70	60	35	75.7	132.6	20.5*	20.5*								
70	60	40	73.4	131.1	19.9*	19.9*								
70	60	50	68.8	127.6	18.7*	18.7*	75.5	127.8	16.4*	16.4*				
70	60	60	64.0	123.2	16.7*	16.7*	70.7	123.5	13.4*	13.4*	76.8	121.2	9.1*	9.1*

LS-238H Tubular Jib Capacities

Capacities shown in thousands of pounds

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.
70	60	70	59.0	117.6	13.6*	13.6*	65.6	118.2	10.4*	10.4*	71.6	115.8	8.0*	8.0*
70	60	80	53.7	110.9	10.5*	10.5*	60.2	111.5	8.4*	8.4*	66.0	109.0	6.8*	6.8*
70	60	90	48.0	102.6	8.3*	8.3*	54.4	103.4	7.2*	7.2*	59.9	100.5	5.8*	5.8*
70	60	100	41.7	92.5	7.1*	7.1*	48.1	93.3	5.9*	5.9*	53.2	89.9	5.4*	5.4*
70	60	110	34.6	79.7	5.8*	5.8*	40.8	80.4	5.5*	5.5*				
70	60	120	25.8	62.4	5.3*	5.3*								
70	70	30	78.9	144.2	18.6*	18.6*								
70	70	35	76.8	143.1	18.1*	18.1*								
70	70	40	74.7	141.8	17.5*	17.5*								
70	70	50	70.4	138.7	16.3*	16.3*	77.7	139.0	15.1*	15.1*				
70	70	60	66.0	134.7	15.2*	15.2*	73.2	135.2	13.1*	13.1*				
70	70	70	61.4	129.7	13.2*	13.2*	68.6	130.4	11.0*	11.0*	75.3	128.0	7.9*	7.9*
70	70	80	56.6	123.7	11.0*	11.0*	63.8	124.6	8.7*	8.7*	70.3	122.1	6.9*	6.9*
70	70	90	51.6	116.4	8.6*	8.6*	58.7	117.5	7.3*	7.3*	64.9	114.8	5.8*	5.8*
70	70	100	46.1	107.7	7.1*	7.1*	53.1	108.8	6.1*	6.1*	59.1	105.8	4.9*	4.9*
70	70	110	40.1	97.0	6.0*	6.0*	47.0	98.1	4.9*	4.9*	52.7	94.5	4.4*	4.4*
70	70	120	33.3	83.6	4.8*	4.8*	40.0	84.6	4.5*	4.5*				
70	70	130	24.8	65.6	4.3*	4.3*								
80	30	25	78.4	114.6	29.6*	29.6*								
80	30	30	75.8	113.4	28.8*	28.8*	79.7	113.2	26.5*	26.5*				
80	30	35	73.1	112.0	28.0*	28.0*	77.0	111.8	25.7*	25.7*				
80	30	40	70.3	110.3	27.2*	27.2*	74.3	110.2	25.0*	25.0*	77.8	108.6	21.4*	21.4*
80	30	50	64.7	106.1	25.7*	25.7*	68.6	106.1	23.5*	23.5*	72.0	104.5	19.1*	19.1*
80	30	60	58.8	100.7	24.1*	24.1*	62.6	100.8	21.9*	21.9*	65.8	99.0	17.3*	17.3*
80	30	70	52.4	93.8	22.4*	22.4*	56.2	94.0	19.3*	19.3*	59.3	92.0	15.8*	15.8*
80	30	80	45.5	85.1	19.8*	19.8*	49.2	85.3	16.5*	16.5*	52.0	83.0	14.8*	14.8*
80	30	90	37.7	73.8	16.7*	16.7*	41.3	73.9	15.5*	15.5*				
80	30	100	28.1	58.3	15.4*	15.4*								
80	40	25	79.4	124.6	26.6*	26.6*								
80	40	30	77.0	123.5	25.9*	25.9*								
80	40	35	74.5	122.1	25.3*	25.3*	79.4	121.9	23.4*	23.4*				
80	40	40	72.0	120.6	24.6*	24.6*	76.9	120.4	22.3*	22.3*				
80	40	50	66.9	116.7	23.3*	23.3*	71.7	116.7	20.1*	20.1*	76.0	114.6	16.2*	16.2*
80	40	60	61.6	111.8	20.9*	20.9*	66.4	111.9	17.7*	17.7*	70.5	109.7	14.5*	14.5*
80	40	70	56.0	105.6	18.5*	18.5*	60.7	105.8	15.6*	15.6*	64.7	103.5	12.7*	12.7*
80	40	80	50.1	98.0	16.1*	16.1*	54.7	98.3	13.8*	13.8*	58.4	95.8	11.5*	11.5*
80	40	90	43.5	88.5	14.0*	14.0*	48.0	88.8	11.8*	11.8*	51.5	85.9	10.7*	10.7*
80	40	100	36.0	76.4	11.9*	11.9*	40.4	76.6	11.0*	11.0*				
80	40	110	26.9	59.9	10.8*	10.8*								
80	50	30	78.0	133.7	23.5*	23.5*								
80	50	35	75.7	132.5	22.9*	22.9*								
80	50	40	73.4	131.0	22.3*	22.3*	79.1	130.8	20.6*	20.6*				
80	50	50	68.8	127.5	21.1*	21.1*	74.4	127.4	18.1*	18.1*	79.5	125.1	13.6*	13.6*
80	50	60	64.0	123.0	19.0*	19.0*	69.5	123.1	15.4*	15.4*	74.5	120.7	11.7*	11.7*
80	50	70	59.0	117.4	16.3*	16.3*	64.4	117.7	12.7*	12.7*	69.3	115.2	10.3*	10.3*
80	50	80	53.7	110.6	13.4*	13.4*	59.1	111.0	11.1*	11.1*	63.7	108.4	8.9*	8.9*

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.
80	50	90	48.0	102.4	11.4*	11.4*	53.3	102.8	9.7*	9.7*	57.7	99.9	8.1*	8.1*
80	50	100	41.7	92.2	9.8*	9.8*	46.9	92.6	8.3*	8.3*	51.0	89.2	7.4*	7.4*
80	50	110	34.6	79.3	8.3*	8.3*	39.6	79.7	7.6*	7.6*				
80	50	120	25.8	62.0	7.4*	7.4*								
80	60	30	78.9	144.0	21.3*	21.3*								
80	60	35	76.8	142.9	20.8*	20.8*								
80	60	40	74.7	141.6	20.2*	20.2*								
80	60	50	70.4	138.3	19.1*	19.1*	76.6	138.4	17.0*	17.0*				
80	60	60	66.0	134.2	17.8*	17.8*	72.2	134.5	14.3*	14.3*	77.9	132.0	9.8*	9.8*
80	60	70	61.4	129.2	15.1*	15.1*	67.5	129.6	11.6*	11.6*	73.1	127.0	8.3*	8.3*
80	60	80	56.6	123.1	12.2*	12.2*	62.7	123.6	8.9*	8.9*	68.1	121.0	7.3*	7.3*
80	60	90	51.6	115.8	9.2*	9.2*	57.6	116.4	7.8*	7.8*	62.8	113.5	6.2*	6.2*
80	60	100	46.1	107.0	7.9*	7.9*	52.1	107.7	6.7*	6.7*	57.0	104.4	5.7*	5.7*
80	60	110	40.1	96.2	6.7*	6.7*	46.0	96.9	5.8*	5.8*	50.5	93.1	5.2*	5.2*
80	60	120	33.3	82.7	5.8*	5.8*	39.0	83.3	5.3*	5.3*				
80	60	130	24.8	64.6	5.2*	5.2*								
80	70	30	79.6	154.4	18.8*	18.8*								
80	70	35	77.7	153.4	18.3*	18.3*								
80	70	40	75.7	152.2	17.8*	17.8*								
80	70	50	71.7	149.3	16.7*	16.7*	78.6	149.4	15.3*	15.3*				
80	70	60	67.6	145.6	15.6*	15.6*	74.4	145.9	13.7*	13.7*				
80	70	70	63.4	141.0	14.2*	14.2*	70.2	141.5	11.7*	11.7*	76.4	139.0	8.4*	8.4*
80	70	80	59.1	135.5	12.1*	12.1*	65.8	136.2	9.7*	9.7*	71.9	133.6	7.2*	7.2*
80	70	90	54.5	129.0	10.0*	10.0*	61.2	129.8	7.8*	7.8*	67.1	127.0	6.3*	6.3*
80	70	100	49.7	121.2	7.9*	7.9*	56.3	122.1	6.8*	6.8*	61.9	119.1	5.2*	5.2*
80	70	110	44.5	111.9	6.8*	6.8*	51.0	112.9	5.7*	5.7*	56.4	109.4	4.7*	4.7*
80	70	120	38.7	100.6	5.7*	5.7*	45.1	101.6	4.8*	4.8*	50.1	97.4	4.3*	4.3*
80	70	130	32.1	86.5	4.7*	4.7*	38.3	87.4	4.4*	4.4*				
80	70	140	24.0	67.7	4.2*	4.2*								
90	30	25	79.4	124.8	29.9*	29.9*								
90	30	30	77.0	123.7	29.2*	29.2*								
90	30	35	74.5	122.4	28.4*	28.4*	78.1	122.2	26.0*	26.0*				
90	30	40	72.0	120.9	27.7*	27.7*	75.6	120.7	25.4*	25.4*	78.9	119.1	21.8*	21.8*
90	30	50	66.9	117.1	26.3*	26.3*	70.5	117.1	24.0*	24.0*	73.6	115.4	19.6*	19.6*
90	30	60	61.6	112.2	24.8*	24.8*	65.1	112.3	22.6*	22.6*	68.2	110.5	17.8*	17.8*
90	30	70	56.0	106.2	23.3*	23.3*	59.5	106.3	20.6*	20.6*	62.4	104.4	16.4*	16.4*
90	30	80	50.1	98.6	21.7*	21.7*	53.5	98.7	18.2*	18.2*	56.2	96.6	15.3*	15.3*
90	30	90	43.5	89.2	19.0*	19.0*	46.8	89.3	15.9*	15.9*	49.3	86.9	14.4*	14.4*
90	30	100	36.0	77.1	16.0*	16.0*	39.3	77.2	15.4*	15.4*				
90	30	110	26.9	60.7	15.4*	14.4								
90	40	30	78.0	133.7	26.2*	26.2*								
90	40	35	75.7	132.5	25.6*	25.6*								
90	40	40	73.4	131.1	25.0*	25.0*	77.9	130.8	22.8*	22.8*				
90	40	50	68.8	127.6	23.8*	23.8*	73.2	127.4	20.7*	20.7*	77.2	125.3	16.6*	16.6*
90	40	60	64.0	123.1	22.0*	22.0*	68.4	123.1	18.6*	18.6*	72.2	120.9	15.1*	15.1*
90	40	70	59.0	117.6	19.8*	19.8*	63.3	117.6	16.5*	16.5*	67.0	115.3	13.4*	13.4*

LS-238H Tubular Jib Capacities

Capacities shown in thousands of pounds

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.
90	40	80	53.7	110.8	17.4*	17.4*	57.9	111.0	14.8*	14.8*	61.5	108.5	11.9*	11.9*
90	40	90	48.0	102.5	15.4*	15.4*	52.2	102.7	13.0*	13.0*	55.5	100.0	11.2*	11.2*
90	40	100	41.7	92.4	13.5*	13.5*	45.8	92.6	11.6*	11.6*	48.9	89.4	10.4*	10.4*
90	40	110	34.6	79.5	11.7*	11.7*	38.6	79.6	10.8*	10.8*				
90	40	120	25.8	62.2	10.7*	10.7*								
90	50	30	78.9	143.9	23.8*	23.8*								
90	50	35	76.8	142.8	23.2*	23.2*								
90	50	40	74.7	141.4	22.6*	22.6*	79.9	141.2	20.8*	20.8*				
90	50	50	70.4	138.2	21.5*	21.5*	75.5	138.1	18.7*	18.7*				
90	50	60	66.0	134.1	20.1*	20.1*	71.1	134.1	16.3*	16.3*	75.7	131.6	12.0*	12.0*
90	50	70	61.4	129.0	17.6*	17.6*	66.5	129.1	13.8*	13.8*	71.0	126.6	10.8*	10.8*
90	50	80	56.6	122.9	15.0*	15.0*	61.7	123.1	11.8*	11.8*	66.0	120.5	9.5*	9.5*
90	50	90	51.6	115.5	12.3*	12.3*	56.5	115.9	10.5*	10.5*	60.7	113.0	8.4*	8.4*
90	50	100	46.1	106.7	10.9*	10.9*	51.0	107.1	9.1*	9.1*	54.9	103.8	7.8*	7.8*
90	50	110	40.1	95.9	9.4*	9.4*	44.9	96.3	8.1*	8.1*	48.5	92.5	7.1*	7.1*
90	50	120	33.3	82.4	8.2*	8.2*	37.9	82.6	7.4*	7.4*				
90	50	130	24.8	64.2	7.3*	7.3*								
90	60	30	79.6	154.2	21.5*	21.5*								
90	60	35	77.7	153.1	21.0*	21.0*								
90	60	40	75.7	151.9	20.5*	20.5*								
90	60	50	71.7	148.9	19.4*	19.4*	77.6	148.9	17.6*	17.6*				
90	60	60	67.6	145.1	18.4*	18.4*	73.4	145.3	15.1*	15.1*	78.8	142.6	10.3*	10.3*
90	60	70	63.4	140.5	16.3*	16.3*	69.2	140.8	12.6*	12.6*	74.4	138.1	8.5*	8.5*
90	60	80	59.1	135.0	13.7*	13.7*	64.8	135.4	9.9*	9.9*	69.9	132.6	7.6*	7.6*
90	60	90	54.5	128.3	11.0*	11.0*	60.2	128.9	8.4*	8.4*	65.1	125.9	6.7*	6.7*
90	60	100	49.7	120.5	8.7*	8.7*	55.3	121.1	7.4*	7.4*	60.0	117.9	5.8*	5.8*
90	60	110	44.5	111.1	7.6*	7.6*	50.0	111.7	6.3*	6.3*	54.4	108.1	5.5*	5.5*
90	60	120	38.7	99.8	6.5*	6.5*	44.1	100.4	5.7*	5.7*	48.2	96.1	5.1*	5.1*
90	60	130	32.1	85.6	5.7*	5.7*	37.3	86.0	5.2*	5.2*				
90	60	140	24.0	66.8	5.1*	5.1*								
90	70	35	78.4	163.6	18.5*	18.5*								
90	70	40	76.6	162.5	18.0*	18.0*								
90	70	50	72.9	159.8	17.0*	17.0*	79.3	159.8	15.5*	15.5*				
90	70	60	69.1	156.3	16.0*	16.0*	75.5	156.6	14.2*	14.2*				
90	70	70	65.2	152.1	15.0*	15.0*	71.6	152.5	12.3*	12.3*	77.4	149.8	8.8*	8.8*
90	70	80	61.2	147.0	13.1*	13.1*	67.5	147.6	10.4*	10.4*	73.2	144.8	7.5*	7.5*
90	70	90	57.0	141.0	11.2*	11.2*	63.3	141.8	8.5*	8.5*	68.8	138.9	6.6*	6.6*
90	70	100	52.7	134.0	9.1*	9.1*	58.8	134.8	7.3*	7.3*	64.2	131.7	5.7*	5.7*
90	70	110	48.0	125.7	7.5*	7.5*	54.1	126.6	6.3*	6.3*	59.3	123.2	4.9*	4.9*
90	70	120	43.0	115.9	6.5*	6.5*	49.0	116.8	5.3*	5.3*	53.9	112.9	4.5*	4.5*
90	70	130	37.4	104.0	5.4*	5.4*	43.4	104.9	4.7*	4.7*	47.8	100.2	4.1*	4.1*
90	70	140	31.1	89.3	4.7*	4.7*	36.8	90.0	4.3*	4.3*				
90	70	150	23.2	69.8	4.2*	4.2*								
100	30	30	78.0	133.9	29.4*	29.4*								
100	30	35	75.7	132.8	28.8*	28.8*	79.1	132.5	26.3*	26.3*				
100	30	40	73.4	131.4	28.1*	28.1*	76.8	131.2	25.7*	25.7*	79.8	129.5	22.2*	22.2*

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.
100	30	50	68.8	127.9	26.8*	26.8*	72.1	127.8	24.4*	24.4*	75.0	126.1	20.0*	20.0*
100	30	60	64.0	123.5	25.5*	25.5*	67.2	123.5	23.1*	23.1*	70.1	121.7	18.3*	18.3*
100	30	70	59.0	118.0	24.1*	24.1*	62.2	118.1	21.7*	21.7*	64.9	116.2	17.0*	17.0*
100	30	80	53.7	111.3	22.7*	22.3	56.8	111.4	19.6*	19.6*	59.4	109.4	15.8*	15.8*
100	30	90	48.0	103.2	20.3	18.9	51.1	103.3	17.3*	17.3*	53.5	101.0	14.9*	14.9*
100	30	100	41.7	93.1	17.5	16.3	44.8	93.2	15.7*	15.7*	46.9	90.5	14.1*	14.1*
100	30	110	34.6	80.3	15.2	14.1	37.5	80.3	15.3*	14.3				
100	30	120	25.8	63.1	13.3	12.4								
100	40	30	78.9	144.0	26.4*	26.4*								
100	40	35	76.8	142.8	25.9*	25.9*								
100	40	40	74.7	141.5	25.3*	25.3*	78.8	141.2	23.2*	23.2*				
100	40	50	70.4	138.3	24.2*	24.2*	74.5	138.1	21.3*	21.3*	78.2	135.9	16.9*	16.9*
100	40	60	66.0	134.2	22.8*	22.8*	70.0	134.1	19.3*	19.3*	73.7	131.8	15.4*	15.4*
100	40	70	61.4	129.1	20.8*	20.8*	65.4	129.1	17.3*	17.3*	68.9	126.8	14.0*	14.0*
100	40	80	56.6	123.0	18.7*	18.7*	60.6	123.1	15.6*	15.6*	64.0	120.7	12.5*	12.5*
100	40	90	51.6	115.7	16.5*	16.5*	55.5	115.8	14.0*	14.0*	58.7	113.2	11.5*	11.5*
100	40	100	46.1	106.8	14.8*	14.8*	50.0	107.0	12.3*	12.3*	53.0	104.1	10.9*	10.9*
100	40	110	40.1	96.1	13.0*	13.0*	43.9	96.2	11.4*	11.4*				
100	40	120	33.3	82.6	11.5*	11.5*	36.9	82.6	10.6*	10.6*				
100	40	130	24.8	64.5	10.6*	10.6*								
100	50	30	79.6	154.1	24.0*	24.0*								
100	50	35	77.7	153.1	23.4*	23.4*								
100	50	40	75.7	151.8	22.9*	22.9*								
100	50	50	71.7	148.8	21.9*	21.9*	76.6	148.6	19.3*	19.3*				
100	50	60	67.6	145.0	20.8*	20.8*	72.5	144.9	17.1*	17.1*	76.8	142.3	12.3*	12.3*
100	50	70	63.4	140.3	18.7*	18.7*	68.2	140.4	14.7*	14.7*	72.4	137.8	11.2*	11.2*
100	50	80	59.1	134.7	16.3*	16.3*	63.8	134.9	12.3*	12.3*	67.9	132.2	10.0*	10.0*
100	50	90	54.5	128.1	13.8*	13.8*	59.2	128.4	11.2*	11.2*	63.1	125.5	8.8*	8.8*
100	50	100	49.7	120.2	11.8*	11.8*	54.3	120.5	9.9*	9.9*	58.0	117.4	8.1*	8.1*
100	50	110	44.5	110.8	10.5*	10.5*	49.0	111.2	8.6*	8.6*	52.5	107.6	7.5*	7.5*
100	50	120	38.7	99.4	9.0*	9.0*	43.1	99.7	7.9*	7.9*				
100	50	130	32.1	85.3	8.0*	8.0*	36.4	85.4	7.2*	7.2*				
100	50	140	24.0	66.4	7.2*	7.2*								
100	60	35	78.4	163.4	21.2*	21.2*								
100	60	40	76.6	162.2	20.7*	20.7*								
100	60	50	72.9	159.4	19.8*	19.8*	78.4	159.3	18.0*	18.0*				
100	60	60	69.1	155.9	18.7*	18.7*	74.5	155.9	15.8*	15.8*	79.6	153.2	10.8*	10.8*
100	60	70	65.2	151.6	17.4*	17.4*	70.6	151.8	13.4*	13.4*	75.5	149.0	8.8*	8.8*
100	60	80	61.2	146.5	15.0*	15.0*	66.6	146.8	11.0*	11.0*	71.3	143.9	7.9*	7.9*
100	60	90	57.0	140.5	12.5*	12.5*	62.4	140.9	8.8*	8.8*	67.0	137.9	7.0*	7.0*
100	60	100	52.7	133.4	9.9*	9.9*	57.9	133.9	7.9*	7.9*	62.4	130.6	6.1*	6.1*
100	60	110	48.0	125.0	8.3*	8.3*	53.2	125.6	7.0*	7.0*	57.5	122.0	5.7*	5.7*
100	60	120	43.0	115.1	7.3*	7.3*	48.1	115.7	5.9*	5.9*	52.1	111.7	5.3*	5.3*
100	60	130	37.4	103.2	6.2*	6.2*	42.4	103.7	5.6*	5.6*				
100	60	140	31.1	88.4	5.6*	5.6*	35.9	88.7	5.1*	5.1*				
100	60	150	23.2	68.8	5.1*	5.1*								

LS-238H Tubular Jib Capacities

Capacities shown in thousands of pounds

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.
100	70	35	79.1	173.8	18.7*	18.7*								
100	70	40	77.4	172.8	18.2*	18.2*								
100	70	50	73.9	170.2	17.3*	17.3*	80.0	170.2	15.7*	15.7*				
100	70	60	70.4	167.0	16.4*	16.4*	76.4	167.1	14.6*	14.6*				
100	70	70	66.8	163.0	15.4*	15.4*	72.7	163.3	12.9*	12.9*	78.2	160.5	9.2*	9.2*
100	70	80	63.0	158.4	14.0*	14.0*	69.0	158.8	11.1*	11.1*	74.3	155.9	7.7*	7.7*
100	70	90	59.2	152.8	12.2*	12.2*	65.1	153.4	9.3*	9.3*	70.3	150.4	6.9*	6.9*
100	70	100	55.2	146.4	10.3*	10.3*	61.0	147.1	7.7*	7.7*	66.1	143.9	6.1*	6.1*
100	70	110	51.0	138.9	8.3*	8.3*	56.8	139.7	6.9*	6.9*	61.7	136.2	5.2*	5.2*
100	70	120	46.5	130.1	7.2*	7.2*	52.2	130.9	6.0*	6.0*	56.9	127.1	4.7*	4.7*
100	70	130	41.6	119.7	6.3*	6.3*	47.3	120.6	5.0*	5.0*	51.7	116.3	4.4*	4.4*
100	70	140	36.3	107.4	5.2*	5.2*	41.8	108.1	4.6*	4.6*	45.8	102.9	4.0*	4.0*
100	70	150	30.1	92.1	4.6*	4.6*	35.5	92.6	4.2*	4.2*				
100	70	160	22.5	71.8	4.1*	4.1*								
110	30	30	78.9	144.2	29.7*	29.7*								
110	30	35	76.8	143.1	29.1*	29.1*	79.9	142.8	26.5*	26.5*				
110	30	40	74.7	141.8	28.5*	28.5*	77.8	141.6	25.9*	25.9*				
110	30	50	70.4	138.6	27.3*	27.3*	73.4	138.5	24.8*	24.8*	76.2	136.7	20.4*	20.4*
110	30	60	66.0	134.6	26.0*	26.0*	69.0	134.5	23.6*	23.6*	71.6	132.7	18.8*	18.8*
110	30	70	61.4	129.6	24.8*	24.8*	64.4	129.6	22.4*	22.4*	66.9	127.7	17.4*	17.4*
110	30	80	56.6	123.5	23.4	22.1	59.6	123.6	20.7*	20.7*	62.0	121.6	16.3*	16.3*
110	30	90	51.6	116.3	20.0	18.7	54.5	116.4	18.6*	18.6*	56.8	114.2	15.3*	15.3*
110	30	100	46.1	107.5	17.2	16.0	49.0	107.6	16.4*	16.3	51.1	105.2	14.6*	14.6*
110	30	110	40.1	96.8	15.0	13.9	42.9	96.8	15.2	14.1				
110	30	120	33.3	83.3	13.1	12.1	36.0	83.3	13.3	12.3				
110	30	130	24.8	65.3	11.5	10.6								
110	40	30	79.6	154.2	26.6*	26.6*								
110	40	35	77.7	153.1	26.1*	26.1*								
110	40	40	75.7	151.9	25.6*	25.6*	79.6	151.5	23.4*	23.4*				
110	40	50	71.7	148.9	24.5*	24.5*	75.6	148.6	21.8*	21.8*	79.1	146.3	17.1*	17.1*
110	40	60	67.6	145.1	23.5*	23.5*	71.5	144.9	20.0*	20.0*	74.9	142.6	15.7*	15.7*
110	40	70	63.4	140.4	21.7*	21.7*	67.2	140.4	18.1*	18.1*	70.5	138.0	14.5*	14.5*
110	40	80	59.1	134.9	19.8*	19.8*	62.8	134.9	16.3*	16.3*	66.0	132.4	13.1*	13.1*
110	40	90	54.5	128.3	17.8*	17.8*	58.2	128.3	14.9*	14.9*	61.3	125.7	11.8*	11.8*
110	40	100	49.7	120.4	16.0*	16.0*	53.3	120.5	13.3*	13.3*	56.2	117.7	11.3*	11.3*
110	40	110	44.5	111.0	14.3*	14.1	48.1	111.1	11.9*	11.9*	50.7	108.0	10.6*	10.6*
110	40	120	38.7	99.6	12.5*	12.3	42.2	99.7	11.2*	11.2*				
110	40	130	32.1	85.5	11.4*	10.8	35.5	85.4	10.4*	10.4*				
110	40	140	24.0	66.6	10.4	9.6								
110	50	35	78.4	163.3	23.7*	23.7*								
110	50	40	76.6	162.1	23.2*	23.2*								
110	50	50	72.9	159.3	22.2*	22.2*	77.4	159.0	19.8*	19.8*				
110	50	60	69.1	155.8	21.2*	21.2*	73.6	155.6	17.7*	17.7*	77.7	153.0	12.6*	12.6*
110	50	70	65.2	151.5	19.7*	19.7*	69.7	151.4	15.6*	15.6*	73.7	148.7	11.5*	11.5*
110	50	80	61.2	146.3	17.5*	17.5*	65.7	146.4	13.3*	13.3*	69.5	143.6	10.4*	10.4*
110	50	90	57.0	140.2	15.2*	15.2*	61.4	140.4	11.7*	11.7*	65.2	137.5	9.3*	9.3*
110	50	100	52.7	133.1	12.8*	12.8*	57.0	133.3	10.6*	10.6*	60.6	130.3	8.4*	8.4*

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.
110	50	110	48.0	124.7	11.4*	11.4*	52.3	125.0	9.4*	9.4*	55.7	121.6	7.9*	7.9*
110	50	120	43.0	114.8	10.1*	10.1*	47.2	115.1	8.4*	8.4*	50.4	111.3	7.3*	7.3*
110	50	130	37.4	102.9	8.7*	8.7*	41.6	103.1	7.8*	7.8*				
110	50	140	31.1	88.1	7.9*	7.9*	35.0	88.1	7.1*	7.1*				
110	50	150	23.2	68.5	7.1*	7.1*								
110	60	35	79.1	173.6	21.4*	21.4*								
110	60	40	77.4	172.5	21.0*	21.0*								
110	60	50	73.9	169.9	20.0*	20.0*	79.1	169.7	18.2*	18.2*				
110	60	60	70.4	166.6	19.1*	19.1*	75.5	166.5	16.4*	16.4*				
110	60	70	66.8	162.6	18.1*	18.1*	71.9	162.7	14.2*	14.2*	76.5	159.8	8.9*	8.9*
110	60	80	63.0	157.9	16.1*	16.1*	68.1	158.1	11.9*	11.9*	72.6	155.1	8.2*	8.2*
110	60	90	59.2	152.3	13.8*	13.8*	64.2	152.6	9.6*	9.6*	68.6	149.5	7.4*	7.4*
110	60	100	55.2	145.8	11.4*	11.4*	60.2	146.2	8.3*	8.3*	64.4	142.9	6.5*	6.5*
110	60	110	51.0	138.2	8.9*	8.9*	55.9	138.7	7.5*	7.5*	60.0	135.2	5.8*	5.8*
110	60	120	46.5	129.3	8.0*	8.0*	51.3	129.9	6.6*	6.6*	55.2	126.0	5.5*	5.5*
110	60	130	41.6	118.9	7.1*	7.1*	46.4	119.4	5.8*	5.8*	50.0	115.1	5.2*	5.2*
110	60	140	36.3	106.5	6.0*	6.0*	40.9	106.9	5.5*	5.5*				
110	60	150	30.1	91.2	5.5*	5.5*	34.6	91.3	5.0*	5.0*				
110	60	160	22.5	70.9	5.0*	5.0*								
110	70	35	79.7	184.0	18.9*	18.9*								
110	70	40	78.1	183.0	18.4*	18.4*								
110	70	50	74.8	180.6	17.5*	17.5*								
110	70	60	71.5	177.6	16.7*	16.7*	77.2	177.6	15.0*	15.0*				
110	70	70	68.1	173.9	15.8*	15.8*	73.8	174.1	13.4*	13.4*	79.0	171.1	9.5*	9.5*
110	70	80	64.7	169.5	14.7*	14.7*	70.3	169.8	11.7*	11.7*	75.3	166.8	7.9*	7.9*
110	70	90	61.1	164.4	13.1*	13.1*	66.6	164.8	10.0*	10.0*	71.6	161.7	7.2*	7.2*
110	70	100	57.4	158.4	11.3*	11.3*	62.9	159.0	8.3*	8.3*	67.7	155.7	6.4*	6.4*
110	70	110	53.5	151.5	9.5*	9.5*	59.0	152.2	7.3*	7.3*	63.7	148.8	5.6*	5.6*
110	70	120	49.4	143.5	7.8*	7.8*	54.9	144.3	6.5*	6.5*	59.4	140.6	4.9*	4.9*
110	70	130	45.1	134.3	6.9*	6.9*	50.5	135.1	5.6*	5.6*	54.8	130.9	4.6*	4.6*
110	70	140	40.4	123.5	6.0*	6.0*	45.7	124.3	4.9*	4.9*	49.7	119.5	4.2*	4.2*
110	70	150	35.2	110.6	5.0*	5.0*	40.4	111.2	4.5*	4.5*				
110	70	160	29.3	94.7	4.6*	4.6*	34.2	95.1	4.1*	4.1*				
110	70	170	21.9	73.8	4.1*	4.1*								
120	30	30	79.6	154.3	29.9*	29.9*								
120	30	35	77.7	153.3	29.4*	29.4*								
120	30	40	75.7	152.1	28.8*	28.8*	78.6	151.9	26.2*	26.2*				
120	30	50	71.7	149.2	27.6*	27.6*	74.6	149.0	25.1*	25.1*	77.2	147.2	20.8*	20.8*
120	30	60	67.6	145.4	26.5*	26.5*	70.5	145.3	24.0*	24.0*	73.0	143.5	19.2*	19.2*
120	30	70	63.4	140.9	25.3*	25.3*	66.3	140.8	22.9*	22.9*	68.7	138.9	17.8*	17.8*
120	30	80	59.1	135.4	23.2	21.8	61.9	135.4	21.6*	21.6*	64.2	133.4	16.7*	16.7*
120	30	90	54.5	128.8	19.8	18.4	57.3	128.9	19.7*	18.8	59.5	126.7	15.8*	15.8*
120	30	100	49.7	121.0	17.0	15.8	52.4	121.1	17.3	16.1	54.5	118.8	15.0*	15.0*
120	30	110	44.5	111.7	14.7	13.6	47.1	111.7	15.0	13.9	49.0	109.1	14.3*	14.1
120	30	120	38.7	100.4	12.9	11.9	41.3	100.4	13.1	12.1				
120	30	130	32.1	86.3	11.3	10.4	34.6	86.1	11.5	10.6				
120	30	140	24.0	67.5	10.0	9.1								

LS-238H Tubular Jib Capacities

Capacities shown in thousands of pounds

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.
120	40	35	78.4	163.3	26.3*	26.3*								
120	40	40	76.6	162.2	25.8*	25.8*								
120	40	50	72.9	159.4	24.9*	24.9*	76.5	159.1	22.2*	22.2*	79.8	156.7	17.3*	17.3*
120	40	60	69.1	155.9	23.8*	23.8*	72.7	155.7	20.5*	20.5*	75.9	153.3	16.0*	16.0*
120	40	70	65.2	151.6	22.5*	22.5*	68.8	151.5	18.8*	18.8*	71.9	149.1	14.9*	14.9*
120	40	80	61.2	146.4	20.7*	20.7*	64.7	146.4	17.0*	17.0*	67.8	143.9	13.7*	13.7*
120	40	90	57.0	140.4	18.9*	18.6	60.5	140.4	15.6*	15.6*	63.4	137.8	12.3*	12.3*
120	40	100	52.7	133.3	17.0*	15.9	56.1	133.4	14.2*	14.2*	58.9	130.6	11.6*	11.6*
120	40	110	48.0	124.9	14.9	13.8	51.4	125.0	12.7*	12.7*	54.0	122.0	11.0*	11.0*
120	40	120	43.0	115.0	13.0	12.0	46.3	115.1	11.7*	11.7*	48.7	111.7	10.4*	10.4*
120	40	130	37.4	103.1	11.5	10.6	40.7	103.1	11.0*	10.8				
120	40	140	31.1	88.3	10.2	9.3	34.2	88.1	10.3*	9.5				
120	40	150	23.2	68.7	9.0	8.2								
120	50	35	79.1	173.5	23.8*	23.8*								
120	50	40	77.4	172.4	23.4*	23.4*								
120	50	50	73.9	169.8	22.4*	22.4*	78.2	169.4	20.2*	20.2*				
120	50	60	70.4	166.5	21.5*	21.5*	74.6	166.2	18.3*	18.3*	78.5	163.5	13.1*	13.1*
120	50	70	66.8	162.5	20.5*	20.5*	71.0	162.3	16.3*	16.3*	74.8	159.6	11.7*	11.7*
120	50	80	63.0	157.7	18.5*	18.5*	67.2	157.7	14.2*	14.2*	70.9	154.8	10.8*	10.8*
120	50	90	59.2	152.1	16.4*	16.4*	63.4	152.2	12.2*	12.2*	66.9	149.2	9.8*	9.8*
120	50	100	55.2	145.5	14.2*	14.2*	59.3	145.7	11.2*	11.2*	62.7	142.6	8.7*	8.7*
120	50	110	51.0	137.9	12.1*	12.1*	55.0	138.2	10.1*	10.1*	58.3	134.9	8.1*	8.1*
120	50	120	46.5	129.1	11.0*	11.0*	50.5	129.3	9.0*	9.0*	53.6	125.7	7.6*	7.6*
120	50	130	41.6	118.6	9.8*	9.8*	45.6	118.9	8.2*	8.2*	48.4	114.8	7.1*	7.1*
120	50	140	36.3	106.2	8.5*	8.5*	40.1	106.3	7.6*	7.6*				
120	50	150	30.1	90.8	7.8*	7.8*								
120	50	160	22.5	70.5	7.0*	7.0*								
120	60	35	79.7	183.8	21.6*	21.6*								
120	60	40	78.1	182.8	21.1*	21.1*								
120	60	50	74.8	180.3	20.3*	20.3*	79.7	180.0	18.4*	18.4*				
120	60	60	71.5	177.2	19.4*	19.4*	76.4	177.0	16.9*	16.9*				
120	60	70	68.1	173.5	18.5*	18.5*	72.9	173.4	14.8*	14.8*	77.3	170.5	9.4*	9.4*
120	60	80	64.7	169.0	17.1*	17.1*	69.4	169.1	12.7*	12.7*	73.7	166.1	8.4*	8.4*
120	60	90	61.1	163.8	14.9*	14.9*	65.8	164.1	10.5*	10.5*	70.0	160.9	7.6*	7.6*
120	60	100	57.4	157.8	12.7*	12.7*	62.1	158.1	8.7*	8.7*	66.1	154.9	6.9*	6.9*
120	60	110	53.5	150.9	10.4*	10.4*	58.2	151.3	8.0*	8.0*	62.1	147.8	6.1*	6.1*
120	60	120	49.4	142.8	8.6*	8.6*	54.0	143.3	7.1*	7.1*	57.8	139.6	5.7*	5.7*
120	60	130	45.1	133.5	7.7*	7.7*	49.7	134.0	6.2*	6.2*	53.2	129.9	5.4*	5.4*
120	60	140	40.4	122.7	6.8*	6.8*	44.9	123.1	5.7*	5.7*	48.2	118.4	5.1*	5.1*
120	60	150	35.2	109.7	5.9*	5.9*	39.6	110.0	5.4*	5.4*				
120	60	160	29.3	93.8	5.5*	5.5*	33.4	93.8	5.0*	5.0*				
120	60	170	21.9	72.8	5.0*	5.0*								
120	70	40	78.8	193.2	18.6*	18.6*								
120	70	50	75.7	190.9	17.8*	17.8*								
120	70	60	72.5	188.1	16.9*	16.9*	77.9	188.0	15.1*	15.1*				
120	70	70	69.3	184.6	16.1*	16.1*	74.7	184.7	13.8*	13.8*	79.6	181.6	9.6*	9.6*
120	70	80	66.1	180.5	15.2*	15.2*	71.4	180.8	12.3*	12.3*	76.2	177.6	8.3*	8.3*

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.
120	70	90	62.7	175.7	13.8*	13.8*	68.0	176.1	10.7*	10.7*	72.7	172.9	7.4*	7.4*
120	70	100	59.3	170.2	12.2*	12.2*	64.5	170.7	9.1*	9.1*	69.1	167.3	6.7*	6.7*
120	70	110	55.7	163.8	10.6*	10.6*	60.9	164.4	7.7*	7.7*	65.4	160.9	5.9*	5.9*
120	70	120	52.0	156.5	8.8*	8.8*	57.1	157.1	6.9*	6.9*	61.5	153.4	5.1*	5.1*
120	70	130	48.0	148.1	7.5*	7.5*	53.1	148.8	6.1*	6.1*	57.3	144.8	4.7*	4.7*
120	70	140	43.8	138.4	6.7*	6.7*	48.9	139.1	5.3*	5.3*	52.8	134.6	4.4*	4.4*
120	70	150	39.3	127.1	5.8*	5.8*	44.2	127.8	4.8*	4.8*	47.9	122.6	4.1*	4.1*
120	70	160	34.3	113.7	4.9*	4.9*	39.1	114.2	4.4*	4.4*				
120	70	170	28.5	97.3	4.5*	4.5*	33.1	97.5	4.0*	4.0*				
120	70	180	21.3	75.7	4.0*	4.0*								
130	30	35	78.4	163.5	29.6*	29.6*								
130	30	40	76.6	162.4	29.1*	29.1*	79.3	162.1	26.4*	26.4*				
130	30	50	72.9	159.7	28.0*	28.0*	75.6	159.5	25.4*	25.4*	78.0	157.6	21.1*	21.1*
130	30	60	69.1	156.2	26.9*	26.9*	71.8	156.1	24.3*	24.3*	74.1	154.2	19.5*	19.5*
130	30	70	65.2	152.0	25.8*	25.8*	67.9	151.9	23.3*	23.3*	70.2	150.0	18.2*	18.2*
130	30	80	61.2	146.9	22.9	21.6	63.8	146.9	22.2*	22.0	66.0	144.9	17.1*	17.1*
130	30	90	57.0	140.9	19.5	18.2	59.6	140.9	19.9	18.6	61.7	138.9	16.2*	16.2*
130	30	100	52.7	133.8	16.7	15.5	55.2	133.9	17.1	15.9	57.2	131.7	15.4*	15.4*
130	30	110	48.0	125.5	14.5	13.4	50.5	125.6	14.7	13.7	52.4	123.2	14.7*	13.9
130	30	120	43.0	115.7	12.6	11.6	45.5	115.7	12.8	11.9	47.2	113.0	13.0	12.0
130	30	130	37.4	103.8	11.0	10.1	39.8	103.8	11.2	10.3				
130	30	140	31.1	89.1	9.7	8.9	33.4	88.9	9.9	9.0				
130	30	150	23.2	69.6	8.6	7.8								
130	40	35	79.1	173.6	26.5*	26.5*								
130	40	40	77.4	172.5	26.1*	26.1*								
130	40	50	73.9	169.9	25.1*	25.1*	77.3	169.5	22.6*	22.6*				
130	40	60	70.4	166.6	24.2*	24.2*	73.8	166.3	21.0*	21.0*	76.8	163.9	16.2*	16.2*
130	40	70	66.8	162.6	23.2*	23.2*	70.1	162.4	19.4*	19.4*	73.1	159.9	15.1*	15.1*
130	40	80	63.0	157.8	21.6*	21.6*	66.4	157.7	17.7*	17.7*	69.2	155.2	14.1*	14.1*
130	40	90	59.2	152.2	19.7	18.3	62.5	152.2	16.2*	16.2*	65.3	149.6	12.9*	12.9*
130	40	100	55.2	145.7	16.9	15.7	58.5	145.7	14.9*	14.9*	61.1	143.0	11.8*	11.8*
130	40	110	51.0	138.1	14.6	13.5	54.2	138.2	13.6*	13.6*	56.7	135.2	11.3*	11.3*
130	40	120	46.5	129.2	12.8	11.8	49.7	129.3	12.2*	12.1	52.0	126.1	10.8*	10.8*
130	40	130	41.6	118.8	11.2	10.3	44.8	118.9	11.5*	10.6				
130	40	140	36.3	106.4	9.9	9.1	39.3	106.4	10.1	9.3				
130	40	150	30.1	91.0	8.7	8.0								
130	40	160	22.5	70.7	7.8	7.0								
130	50	35	79.7	183.7	24.0*	24.0*								
130	50	40	78.1	182.7	23.6*	23.6*								
130	50	50	74.8	180.2	22.7*	22.7*	78.9	179.8	20.6*	20.6*				
130	50	60	71.5	177.1	21.8*	21.8*	75.5	176.8	18.7*	18.7*	79.2	174.0	13.5*	13.5*
130	50	70	68.1	173.3	20.9*	20.9*	72.1	173.1	16.9*	16.9*	75.7	170.3	12.0*	12.0*
130	50	80	64.7	168.9	19.4*	19.4*	68.6	168.8	15.0*	15.0*	72.1	165.9	11.1*	11.1*
130	50	90	61.1	163.6	17.4*	17.4*	65.0	163.7	13.0*	13.0*	68.4	160.7	10.1*	10.1*
130	50	100	57.4	157.6	15.4*	15.4*	61.3	157.7	11.7*	11.7*	64.5	154.6	9.2*	9.2*
130	50	110	53.5	150.6	13.3*	13.3*	57.4	150.8	10.7*	10.7*	60.5	147.5	8.4*	8.4*
130	50	120	49.4	142.6	11.7*	11.7*	53.3	142.8	9.7*	9.7*	56.3	139.3	7.9*	7.9*

LS-238H Tubular Jib Capacities

Capacities shown in thousands of pounds

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.
130	50	130	45.1	133.3	10.7*	10.4	48.9	133.5	8.6*	8.6*	51.7	129.6	7.4*	7.4*
130	50	140	40.4	122.4	9.5*	9.2	44.1	122.5	8.0*	8.0*				
130	50	150	35.2	109.4	8.4*	8.1	38.8	109.5	7.5*	7.5*				
130	50	160	29.3	93.4	7.7*	7.2								
130	50	170	21.9	72.4	7.0*	6.3								
130	60	40	78.8	193.0	21.3*	21.3*								
130	60	50	75.7	190.7	20.5*	20.5*								
130	60	60	72.5	187.7	19.7*	19.7*	77.1	187.5	17.3*	17.3*				
130	60	70	69.3	184.2	18.8*	18.8*	73.9	184.1	15.4*	15.4*	78.0	181.0	9.9*	9.9*
130	60	80	66.1	180.1	17.4*	17.4*	70.6	180.1	13.4*	13.4*	74.7	177.0	8.6*	8.6*
130	60	90	62.7	175.2	15.9*	15.9*	67.2	175.3	11.4*	11.4*	71.2	172.2	7.9*	7.9*
130	60	100	59.3	169.6	13.8*	13.8*	63.8	169.8	9.3*	9.3*	67.6	166.5	7.2*	7.2*
130	60	110	55.7	163.2	11.7*	11.7*	60.1	163.5	8.3*	8.3*	63.9	160.0	6.4*	6.4*
130	60	120	52.0	155.8	9.5*	9.5*	56.4	156.2	7.6*	7.6*	60.0	152.5	5.8*	5.8*
130	60	130	48.0	147.4	8.3*	8.3*	52.4	147.8	6.8*	6.8*	55.8	143.8	5.6*	5.6*
130	60	140	43.8	137.6	7.5*	7.5*	48.1	138.0	5.9*	5.9*	51.4	133.7	5.3*	5.3*
130	60	150	39.3	126.3	6.6*	6.6*	43.5	126.6	5.6*	5.6*				
130	60	160	34.3	112.8	5.8*	5.8*	38.3	113.1	5.3*	5.3*				
130	60	170	28.5	96.4	5.4*	5.4*								
130	60	180	21.3	74.7	5.0*	5.0*								
130	70	40	79.3	203.4	18.7*	18.7*								
130	70	50	76.4	201.2	18.0*	18.0*								
130	70	60	73.4	198.5	17.2*	17.2*	78.5	198.4	15.3*	15.3*				
130	70	70	70.4	195.3	16.4*	16.4*	75.5	195.3	14.2*	14.2*				
130	70	80	67.3	191.4	15.5*	15.5*	72.4	191.6	12.7*	12.7*	77.0	188.3	8.7*	8.7*
130	70	90	64.2	186.9	14.1*	14.1*	69.2	187.2	11.3*	11.3*	73.7	183.9	7.6*	7.6*
130	70	100	61.0	181.7	12.9*	12.9*	66.0	182.1	9.7*	9.7*	70.4	178.7	6.9*	6.9*
130	70	110	57.6	175.7	11.5*	11.5*	62.6	176.3	8.2*	8.2*	66.9	172.7	6.2*	6.2*
130	70	120	54.2	169.0	9.8*	9.8*	59.1	169.6	7.3*	7.3*	63.3	165.8	5.5*	5.5*
130	70	130	50.6	161.3	8.2*	8.2*	55.4	161.9	6.6*	6.6*	59.4	157.9	4.9*	4.9*
130	70	140	46.7	152.4	7.3*	7.3*	51.6	153.1	5.8*	5.8*	55.4	148.8	4.6*	4.6*
130	70	150	42.7	142.3	6.5*	6.5*	47.4	143.0	5.0*	5.0*	51.1	138.2	4.3*	4.3*
130	70	160	38.3	130.6	5.6*	5.6*	42.9	131.2	4.7*	4.7*	46.3	125.7	4.0*	4.0*
130	70	170	33.4	116.7	4.8*	4.8*	37.9	117.2	4.3*	4.3*				
130	70	180	27.7	99.8	4.5*	4.5*								
130	70	190	20.7	77.5	4.0*	4.0*								
140	30	35	79.1	173.7	29.8*	29.8*								
140	30	40	77.4	172.7	29.3*	29.3*	80.0	172.4	26.6*	26.6*				
140	30	50	73.9	170.1	28.3*	28.3*	76.5	169.9	25.6*	25.6*	78.8	168.0	21.4*	21.4*
140	30	60	70.4	166.9	27.3*	27.3*	72.9	166.7	24.6*	24.6*	75.1	164.8	19.9*	19.9*
140	30	70	66.8	162.9	26.2*	25.6	69.3	162.8	23.7*	23.7*	71.4	160.9	18.6*	18.6*
140	30	80	63.0	158.2	22.7	21.3	65.5	158.2	22.7*	21.8	67.6	156.2	17.5*	17.5*
140	30	90	59.2	152.7	19.2	17.9	61.7	152.7	19.7	18.4	63.7	150.6	16.5*	16.5*
140	30	100	55.2	146.2	16.4	15.3	57.6	146.2	16.8	15.6	59.5	144.1	15.7*	15.7*
140	30	110	51.0	138.7	14.2	13.1	53.4	138.7	14.5	13.4	55.2	136.4	14.8	13.7
140	30	120	46.5	129.9	12.3	11.4	48.8	129.9	12.6	11.6	50.5	127.4	12.8	11.8
140	30	130	41.6	119.5	10.8	9.9	43.9	119.5	11.0	10.1				

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.
140	30	140	36.3	107.1	9.5	8.6								
140	30	150	30.1	91.8	8.3	7.5								
140	30	160	22.5	71.6	7.3	6.6								
140	40	35	79.7	183.7	26.7*	26.7*								
140	40	40	78.1	182.7	26.2*	26.2*								
140	40	50	74.8	180.3	25.4*	25.4*	78.1	179.9	22.9*	22.9*				
140	40	60	71.5	177.2	24.5*	24.5*	74.7	176.8	21.4*	21.4*	77.6	174.4	16.5*	16.5*
140	40	70	68.1	173.4	23.6*	23.6*	71.3	173.2	19.9*	19.9*	74.1	170.7	15.4*	15.4*
140	40	80	64.7	169.0	22.3*	21.5	67.8	168.8	18.4*	18.4*	70.5	166.3	14.5*	14.5*
140	40	90	61.1	163.8	19.4	18.1	64.2	163.7	16.8*	16.8*	66.8	161.1	13.4*	13.4*
140	40	100	57.4	157.7	16.6	15.4	60.5	157.7	15.6*	15.6*	63.0	155.0	12.2*	12.2*
140	40	110	53.5	150.8	14.4	13.3	56.6	150.8	14.3*	13.7	59.0	148.0	11.6*	11.6*
140	40	120	49.4	142.7	12.5	11.5	52.5	142.8	12.9	11.9	54.8	139.7	11.1*	11.1*
140	40	130	45.1	133.4	10.9	10.0	48.1	133.5	11.3	10.3	50.3	130.1	10.6*	10.6*
140	40	140	40.4	122.6	9.6	8.8	43.3	122.6	9.9	9.0				
140	40	150	35.2	109.6	8.5	7.7	38.1	109.5	8.7	7.9				
140	40	160	29.3	93.7	7.5	6.8								
140	50	40	78.8	192.9	23.7*	23.7*								
140	50	50	75.7	190.5	22.9*	22.9*	79.5	190.1	20.7*	20.7*				
140	50	60	72.5	187.6	22.1*	22.1*	76.3	187.3	19.2*	19.2*	79.8	184.4	13.8*	13.8*
140	50	70	69.3	184.1	21.2*	21.2*	73.1	183.8	17.4*	17.4*	76.5	181.0	12.2*	12.2*
140	50	80	66.1	179.9	20.0*	20.0*	69.8	179.7	15.6*	15.6*	73.2	176.8	11.3*	11.3*
140	50	90	62.7	175.0	18.3*	18.2	66.5	175.0	13.8*	13.8*	69.7	172.0	10.5*	10.5*
140	50	100	59.3	169.4	16.4*	15.5	63.0	169.4	12.1*	12.1*	66.1	166.3	9.6*	9.6*
140	50	110	55.7	162.9	14.5*	13.4	59.4	163.0	11.2*	11.2*	62.4	159.8	8.6*	8.6*
140	50	120	52.0	155.6	12.4*	11.6	55.6	155.7	10.3*	10.3*	58.5	152.3	8.2*	8.2*
140	50	130	48.0	147.1	11.1	10.2	51.6	147.3	9.3*	9.3*	54.4	143.6	7.7*	7.7*
140	50	140	43.8	137.3	9.7	8.9	47.4	137.5	8.4*	8.4*	50.0	133.4	7.2*	7.2*
140	50	150	39.3	126.0	8.6	7.8	42.8	126.1	7.9*	7.9*				
140	50	160	34.3	112.5	7.6	6.9	37.6	112.5	7.4*	7.1				
140	50	170	28.5	96.0	6.7	6.1								
140	60	40	79.3	203.2	21.5*	21.5*								
140	60	50	76.4	201.0	20.7*	20.7*								
140	60	60	73.4	198.2	19.9*	19.9*	77.8	197.9	17.7*	17.7*				
140	60	70	70.4	194.9	19.1*	19.1*	74.8	194.7	15.9*	15.9*	78.7	191.6	10.3*	10.3*
140	60	80	67.3	191.0	17.7*	17.7*	71.7	190.9	14.0*	14.0*	75.5	187.7	8.8*	8.8*
140	60	90	64.2	186.4	16.1*	16.1*	68.5	186.5	12.1*	12.1*	72.3	183.2	8.1*	8.1*
140	60	100	61.0	181.2	14.8*	14.8*	65.2	181.3	10.2*	10.2*	68.9	178.0	7.4*	7.4*
140	60	110	57.6	175.2	12.9*	12.9*	61.9	175.4	8.7*	8.7*	65.4	171.9	6.7*	6.7*
140	60	120	54.2	168.3	10.8*	10.8*	58.4	168.7	8.0*	8.0*	61.8	165.0	6.0*	6.0*
140	60	130	50.6	160.6	8.8*	8.8*	54.7	160.9	7.3*	7.3*	58.0	157.1	5.7*	5.7*
140	60	140	46.7	151.7	8.1*	8.1*	50.8	152.1	6.5*	6.5*	54.0	147.9	5.5*	5.5*
140	60	150	42.7	141.6	7.3*	7.3*	46.7	141.9	5.9*	5.9*	49.7	137.3	5.2*	5.2*
140	60	160	38.3	129.8	6.4*	6.4*	42.2	130.1	5.6*	5.6*				
140	60	170	33.4	115.9	5.8*	5.8*	37.2	116.0	5.2*	5.2*				
140	60	180	27.7	98.9	5.4*	5.4*								

LS-238H Tubular Jib Capacities

Capacities shown in thousands of pounds

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.
140	70	40	79.8	213.6	18.9*	18.9*								
140	70	50	77.1	211.5	18.1*	18.1*								
140	70	60	74.2	208.9	17.4*	17.4*	79.1	208.8	15.5*	15.5*				
140	70	70	71.4	205.8	16.6*	16.6*	76.2	205.8	14.5*	14.5*				
140	70	80	68.5	202.2	15.8*	15.8*	73.3	202.3	13.1*	13.1*	77.7	199.0	9.0*	9.0*
140	70	90	65.5	197.9	14.3*	14.3*	70.3	198.1	11.8*	11.8*	74.6	194.8	7.8*	7.8*
140	70	100	62.5	193.0	13.1*	13.1*	67.2	193.4	10.3*	10.3*	71.4	189.9	7.1*	7.1*
140	70	110	59.4	187.5	12.0*	12.0*	64.1	187.9	8.9*	8.9*	68.2	184.3	6.5*	6.5*
140	70	120	56.1	181.2	10.8*	10.8*	60.8	181.7	7.7*	7.7*	64.8	177.9	5.8*	5.8*
140	70	130	52.8	174.0	9.2*	9.2*	57.4	174.6	7.0*	7.0*	61.3	170.6	5.1*	5.1*
140	70	140	49.3	165.9	7.8*	7.8*	53.9	166.5	6.3*	6.3*	57.6	162.3	4.8*	4.8*
140	70	150	45.6	156.7	7.0*	7.0*	50.1	157.4	5.5*	5.5*	53.7	152.7	4.5*	4.5*
140	70	160	41.6	146.2	6.2*	6.2*	46.1	146.8	4.9*	4.9*	49.4	141.7	4.2*	4.2*
140	70	170	37.3	134.0	5.4*	5.4*	41.7	134.6	4.6*	4.6*				
140	70	180	32.5	119.7	4.8*	4.8*	36.8	120.0	4.3*	4.3*				
140	70	190	27.0	102.2	4.4*	4.4*								
140	70	200	20.2	79.4	4.0*	4.0*								
150	30	35	79.7	183.9	29.9*	29.9*								
150	30	40	78.1	182.9	29.5*	29.5*								
150	30	50	74.8	180.5	28.5*	28.5*	77.3	180.2	25.8*	25.8*	79.4	178.4	21.7*	21.7*
150	30	60	71.5	177.5	27.6*	27.6*	73.9	177.3	24.9*	24.9*	76.0	175.4	20.2*	20.2*
150	30	70	68.1	173.8	26.6*	25.3	70.5	173.6	24.0*	24.0*	72.6	171.7	18.9*	18.9*
150	30	80	64.7	169.4	22.4	21.0	67.0	169.3	22.9	21.6	69.0	167.3	17.8*	17.8*
150	30	90	61.1	164.2	19.0	17.6	63.4	164.2	19.5	18.1	65.3	162.2	16.9*	16.9*
150	30	100	57.4	158.2	16.2	15.0	59.7	158.3	16.6	15.4	61.5	156.1	16.1*	15.7
150	30	110	53.5	151.3	13.9	12.8	55.8	151.4	14.3	13.2	57.6	149.1	14.6	13.5
150	30	120	49.4	143.4	12.1	11.1	51.7	143.4	12.4	11.4	53.4	141.0	12.6	11.6
150	30	130	45.1	134.1	10.5	9.6	47.3	134.1	10.8	9.9	48.9	131.5	10.9	10.0
150	30	140	40.4	123.3	9.2	8.4	42.6	123.3	9.4	8.6				
150	30	150	35.2	110.3	8.1	7.3	37.3	110.2	8.2	7.4				
150	30	160	29.3	94.5	7.1	6.3								
150	30	170	21.9	73.5	6.2	5.5								
150	40	40	78.8	193.0	26.4*	26.4*								
150	40	50	75.7	190.6	25.6*	25.6*	78.7	190.2	23.2*	23.2*				
150	40	60	72.5	187.7	24.8*	24.8*	75.6	187.3	21.8*	21.8*	78.3	184.9	16.7*	16.7*
150	40	70	69.3	184.2	23.9*	23.9*	72.4	183.9	20.4*	20.4*	75.0	181.4	15.6*	15.6*
150	40	80	66.1	180.0	22.5	21.2	69.1	179.8	18.9*	18.9*	71.7	177.3	14.7*	14.7*
150	40	90	62.7	175.1	19.1	17.8	65.7	175.0	17.4*	17.4*	68.2	172.4	13.8*	13.8*
150	40	100	59.3	169.5	16.3	15.1	62.2	169.5	16.1*	15.7	64.7	166.8	12.7*	12.7*
150	40	110	55.7	163.1	14.1	13.0	58.6	163.1	14.5	13.5	61.0	160.3	11.8*	11.8*
150	40	120	52.0	155.7	12.2	11.2	54.9	155.7	12.6	11.6	57.1	152.8	11.4*	11.4*
150	40	130	48.0	147.3	10.7	9.8	50.9	147.3	11.0	10.1	53.0	144.1	10.9*	10.4
150	40	140	43.8	137.5	9.3	8.5	46.6	137.5	9.6	8.8	48.6	134.0	9.9	9.0
150	40	150	39.3	126.2	8.2	7.4	42.0	126.2	8.5	7.7				
150	40	160	34.3	112.7	7.2	6.5	36.9	112.6	7.4	6.7				
150	40	170	28.5	96.2	6.3	5.7								

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.
150	50	40	79.3	203.1	23.9*	23.9*								
150	50	50	76.4	200.9	23.1*	23.1*								
150	50	60	73.4	198.1	22.3*	22.3*	77.1	197.7	19.6*	19.6*				
150	50	70	70.4	194.8	21.5*	21.5*	74.0	194.5	17.9*	17.9*	77.2	191.5	12.4*	12.4*
150	50	80	67.3	190.8	20.2*	20.2*	70.9	190.6	16.2*	16.2*	74.1	187.6	11.6*	11.6*
150	50	90	64.2	186.2	18.7*	17.9	67.8	186.1	14.5*	14.5*	70.8	183.1	10.7*	10.7*
150	50	100	61.0	181.0	16.5	15.3	64.5	180.9	12.7*	12.7*	67.5	177.8	9.9*	9.9*
150	50	110	57.6	175.0	14.2	13.1	61.1	175.0	11.7*	11.7*	64.1	171.8	9.0*	9.0*
150	50	120	54.2	168.1	12.3	11.4	57.6	168.2	10.8*	10.8*	60.5	164.8	8.4*	8.4*
150	50	130	50.6	160.3	10.8	9.9	54.0	160.5	9.9*	9.9*	56.7	156.9	8.0*	8.0*
150	50	140	46.7	151.4	9.5	8.6	50.1	151.6	8.9*	8.9*	52.7	147.7	7.5*	7.5*
150	50	150	42.7	141.3	8.3	7.6	46.0	141.4	8.2*	7.9	48.4	137.1	7.1*	7.1*
150	50	160	38.3	129.5	7.3	6.6	41.5	129.5	7.6	6.9				
150	50	170	33.4	115.5	6.5	5.8	36.5	115.4	6.7	6.0				
150	50	180	27.7	98.5	5.7	5.1								
150	60	40	79.8	213.4	21.6*	21.6*								
150	60	50	77.1	211.3	20.9*	20.9*								
150	60	60	74.2	208.6	20.1*	20.1*	78.4	208.3	18.0*	18.0*				
150	60	70	71.4	205.5	19.3*	19.3*	75.5	205.3	16.4*	16.4*	79.3	202.0	10.6*	10.6*
150	60	80	68.5	201.8	17.8*	17.8*	72.6	201.7	14.6*	14.6*	76.3	198.4	8.9*	8.9*
150	60	90	65.5	197.5	16.3*	16.3*	69.6	197.5	12.8*	12.8*	73.2	194.2	8.3*	8.3*
150	60	100	62.5	192.6	15.0*	15.0*	66.5	192.6	11.0*	11.0*	70.1	189.3	7.7*	7.7*
150	60	110	59.4	186.9	13.8*	13.2	63.4	187.1	9.1*	9.1*	66.8	183.6	7.0*	7.0*
150	60	120	56.1	180.6	11.9*	11.5	60.1	180.8	8.3*	8.3*	63.5	177.2	6.3*	6.3*
150	60	130	52.8	173.4	9.9*	9.9*	56.7	173.7	7.7*	7.7*	60.0	169.8	5.8*	5.8*
150	60	140	49.3	165.2	8.6*	8.6*	53.2	165.5	7.0*	7.0*	56.3	161.5	5.6*	5.6*
150	60	150	45.6	156.0	7.8*	7.7	49.4	156.3	6.2*	6.2*	52.4	151.9	5.3*	5.3*
150	60	160	41.6	145.4	7.0*	6.7	45.4	145.7	5.8*	5.8*	48.2	140.8	5.1*	5.1*
150	60	170	37.3	133.2	6.2*	5.9	41.0	133.4	5.5*	5.5*				
150	60	180	32.5	118.8	5.7*	5.2	36.2	118.8	5.2*	5.2*				
150	60	190	27.0	101.3	5.1	4.5								
150	70	50	77.7	221.8	18.3*	18.3*								
150	70	60	75.0	219.3	17.6*	17.6*	79.6	219.1	15.6*	15.6*				
150	70	70	72.3	216.4	16.9*	16.9*	76.9	216.3	14.8*	14.8*				
150	70	80	69.5	212.9	16.0*	16.0*	74.1	212.9	13.5*	13.5*	78.3	209.5	9.2*	9.2*
150	70	90	66.7	208.9	14.5*	14.5*	71.3	209.0	12.2*	12.2*	75.4	205.6	7.9*	7.9*
150	70	100	63.8	204.3	13.3*	13.3*	68.4	204.5	10.9*	10.9*	72.4	201.0	7.3*	7.3*
150	70	110	60.9	199.0	12.1*	12.1*	65.4	199.4	9.5*	9.5*	69.3	195.7	6.7*	6.7*
150	70	120	57.9	193.1	11.2*	11.2*	62.3	193.5	8.0*	8.0*	66.2	189.8	6.1*	6.1*
150	70	130	54.7	186.4	10.1*	10.1*	59.2	186.9	7.4*	7.4*	62.9	183.0	5.4*	5.4*
150	70	140	51.5	178.9	8.6*	8.6*	55.9	179.5	6.7*	6.7*	59.5	175.3	4.9*	4.9*
150	70	150	48.1	170.4	7.5*	7.5*	52.4	171.0	6.0*	6.0*	55.9	166.6	4.6*	4.6*
150	70	160	44.5	160.8	6.8*	6.8*	48.8	161.4	5.3*	5.3*	52.1	156.6	4.4*	4.4*
150	70	170	40.6	149.9	6.0*	6.0*	44.9	150.5	4.8*	4.8*	48.0	145.0	4.1*	4.1*
150	70	180	36.4	137.4	5.2*	5.2*	40.6	137.8	4.5*	4.5*				
150	70	190	31.8	122.6	4.7*	4.6	35.8	122.8	4.2*	4.2*				
150	70	200	26.4	104.6	4.4*	4.0								

LS-238H Tubular Jib Capacities

Capacities shown in thousands of pounds

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.
160	30	40	78.8	193.1	29.7*	29.7*								
160	30	50	75.7	190.9	28.8*	28.8*	77.9	190.6	26.0*	26.0*				
160	30	60	72.5	188.0	27.9*	27.9*	74.8	187.8	25.1*	25.1*	76.8	185.9	20.5*	20.5*
160	30	70	69.3	184.5	26.8	25.1	71.6	184.3	24.3*	24.3*	73.6	182.4	19.2*	19.2*
160	30	80	66.1	180.4	22.3	20.8	68.3	180.3	22.7	21.4	70.2	178.3	18.1*	18.1*
160	30	90	62.7	175.6	18.7	17.4	65.0	175.5	19.2	17.9	66.8	173.5	17.2*	17.2*
160	30	100	59.3	170.0	15.9	14.7	61.5	170.0	16.4	15.2	63.3	167.9	16.4*	15.5
160	30	110	55.7	163.6	13.7	12.6	57.9	163.6	14.0	13.0	59.6	161.4	14.3	13.3
160	30	120	52.0	156.3	11.8	10.8	54.1	156.3	12.1	11.1	55.8	154.0	12.4	11.4
160	30	130	48.0	147.9	10.2	9.3	50.2	147.9	10.5	9.6	51.7	145.4	10.7	9.8
160	30	140	43.8	138.2	8.9	8.1	45.9	138.2	9.2	8.3	47.3	135.4	9.3	8.5
160	30	150	39.3	126.9	7.8	7.0	41.3	126.8	8.0	7.2				
160	30	160	34.3	113.5	6.8	6.1	36.2	113.3	6.9	6.2				
160	30	170	28.5	97.0	5.9	5.2								
160	30	180	21.3	75.4	5.2	4.5								
160	40	40	79.3	203.1	26.6*	26.6*								
160	40	50	76.4	200.9	25.8*	25.8*	79.3	200.5	23.3*	23.3*				
160	40	60	73.4	198.2	25.0*	25.0*	76.3	197.8	22.1*	22.1*	78.9	195.3	16.9*	16.9*
160	40	70	70.4	194.8	24.2*	24.2*	73.3	194.5	20.8*	20.8*	75.8	192.0	15.8*	15.8*
160	40	80	67.3	190.9	22.3	20.9	70.2	190.7	19.4*	19.4*	72.7	188.1	14.9*	14.9*
160	40	90	64.2	186.3	18.9	17.5	67.0	186.2	18.0*	18.0*	69.5	183.6	14.2*	14.2*
160	40	100	61.0	181.1	16.1	14.9	63.8	181.0	16.6*	15.4	66.1	178.3	13.2*	13.2*
160	40	110	57.6	175.1	13.8	12.7	60.4	175.0	14.3	13.2	62.7	172.3	12.1*	12.1*
160	40	120	54.2	168.3	11.9	11.0	56.9	168.3	12.4	11.4	59.1	165.3	11.6*	11.6*
160	40	130	50.6	160.5	10.4	9.5	53.3	160.5	10.8	9.9	55.4	157.4	11.1	10.2
160	40	140	46.7	151.6	9.1	8.2	49.4	151.7	9.4	8.6	51.4	148.3	9.6	8.8
160	40	150	42.7	141.5	7.9	7.2	45.3	141.5	8.2	7.4				
160	40	160	38.3	129.7	6.9	6.2	40.8	129.6	7.2	6.4				
160	40	170	33.4	115.7	6.1	5.4	35.9	115.6	6.3	5.6				
160	40	180	27.7	98.7	5.3	4.7								
160	50	40	79.8	213.3	24.0*	24.0*								
160	50	50	77.1	211.2	23.3*	23.3*								
160	50	60	74.2	208.5	22.5*	22.5*	77.7	208.1	19.9*	19.9*				
160	50	70	71.4	205.4	21.8*	21.8*	74.8	205.0	18.3*	18.3*	77.9	202.0	12.8*	12.8*
160	50	80	68.5	201.6	20.4*	20.4*	71.9	201.4	16.7*	16.7*	74.9	198.4	11.8*	11.8*
160	50	90	65.5	197.3	18.8*	17.7	68.9	197.1	15.1*	15.1*	71.9	194.1	11.0*	11.0*
160	50	100	62.5	192.4	16.2	15.0	65.8	192.3	13.4*	13.4*	68.7	189.2	10.2*	10.2*
160	50	110	59.4	186.7	13.9	12.8	62.7	186.7	12.1*	12.1*	65.5	183.5	9.4*	9.4*
160	50	120	56.1	180.3	12.1	11.1	59.4	180.4	11.2*	11.2*	62.2	177.0	8.5*	8.5*
160	50	130	52.8	173.1	10.5	9.6	56.1	173.2	10.4*	10.1	58.7	169.7	8.2*	8.2*
160	50	140	49.3	164.9	9.2	8.4	52.5	165.1	9.5*	8.8	55.0	161.3	7.8*	7.8*
160	50	150	45.6	155.7	8.0	7.3	48.8	155.8	8.4	7.6	51.1	151.8	7.4*	7.4*
160	50	160	41.6	145.1	7.1	6.3	44.7	145.2	7.4	6.6				
160	50	170	37.3	132.9	6.2	5.5	40.4	132.9	6.5	5.8				
160	50	180	32.5	118.5	5.4	4.8	35.5	118.3	5.6	5.0				
160	50	190	27.0	100.9	4.7	4.1								

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.
160	60	50	77.7	221.5	21.0*	21.0*								
160	60	60	75.0	219.0	20.3*	20.3*	78.9	218.6	18.2*	18.2*				
160	60	70	72.3	216.0	19.6*	19.6*	76.2	215.7	16.8*	16.8*	79.8	212.5	10.9*	10.9*
160	60	80	69.5	212.5	18.0*	18.0*	73.4	212.3	15.1*	15.1*	77.0	209.0	9.2*	9.2*
160	60	90	66.7	208.4	16.5*	16.5*	70.6	208.4	13.4*	13.4*	74.1	205.0	8.5*	8.5*
160	60	100	63.8	203.8	15.2*	15.1	67.7	203.8	11.7*	11.7*	71.1	200.4	7.9*	7.9*
160	60	110	60.9	198.5	14.0*	12.9	64.7	198.6	9.9*	9.9*	68.1	195.1	7.3*	7.3*
160	60	120	57.9	192.5	12.2*	11.2	61.7	192.7	8.7*	8.7*	64.9	189.1	6.6*	6.6*
160	60	130	54.7	185.8	10.6*	9.7	58.5	186.0	8.0*	8.0*	61.7	182.2	6.0*	6.0*
160	60	140	51.5	178.2	9.2*	8.4	55.2	178.5	7.4*	7.4*	58.2	174.5	5.7*	5.7*
160	60	150	48.1	169.7	8.1	7.4	51.8	170.0	6.7*	6.7*	54.7	165.7	5.5*	5.5*
160	60	160	44.5	160.1	7.2	6.4	48.1	160.4	5.9*	5.9*	50.9	155.7	5.2*	5.2*
160	60	170	40.6	149.1	6.3	5.6	44.2	149.4	5.7*	5.7*	46.8	144.2	5.0*	5.0*
160	60	180	36.4	136.5	5.5	4.9	40.0	136.7	5.4*	5.2				
160	60	190	31.8	121.7	4.8	4.2	35.2	121.6	5.1	4.5				
160	60	200	26.4	103.6	4.2	3.7								
160	70	50	78.2	232.0	18.4*	18.4*								
160	70	60	75.6	229.7	17.8*	17.8*								
160	70	70	73.1	226.8	17.1*	17.1*	77.5	226.7	15.0*	15.0*				
160	70	80	70.4	223.5	16.1*	16.1*	74.8	223.5	13.9*	13.9*	78.8	220.0	9.4*	9.4*
160	70	90	67.8	219.7	14.7*	14.7*	72.1	219.8	12.6*	12.6*	76.1	216.3	8.2*	8.2*
160	70	100	65.0	215.3	13.4*	13.4*	69.4	215.5	11.3*	11.3*	73.3	211.9	7.5*	7.5*
160	70	110	62.3	210.4	12.3*	12.3*	66.6	210.7	10.0*	10.0*	70.4	207.0	6.9*	6.9*
160	70	120	59.4	204.8	11.3*	11.3	63.7	205.2	8.7*	8.7*	67.4	201.4	6.3*	6.3*
160	70	130	56.5	198.5	10.4*	9.8	60.7	199.0	7.7*	7.7*	64.4	195.0	5.7*	5.7*
160	70	140	53.4	191.5	9.4*	8.5	57.7	192.0	7.1*	7.1*	61.2	187.9	5.1*	5.1*
160	70	150	50.3	183.6	8.0*	7.4	54.5	184.2	6.4*	6.4*	57.8	179.8	4.8*	4.8*
160	70	160	46.9	174.8	7.2	6.5	51.1	175.4	5.7*	5.7*	54.3	170.7	4.5*	4.5*
160	70	170	43.4	164.9	6.4	5.7	47.5	165.4	5.0*	5.0*	50.6	160.3	4.2*	4.2*
160	70	180	39.7	153.6	5.6	5.0	43.7	154.1	4.7*	4.7*	46.6	148.3	3.8*	3.8*
160	70	190	35.6	140.6	4.9	4.3	39.5	141.0	4.4*	4.4*				
160	70	200	31.0	125.4	4.3	3.7	34.9	125.5	4.1*	4.0				
160	70	210	25.8	106.9	3.8	3.2								
170	30	40	79.3	203.3	29.8*	29.8*								
170	30	50	76.4	201.2	29.0*	29.0*	78.6	200.9	26.2*	26.2*				
170	30	60	73.4	198.4	28.1*	28.1*	75.6	198.2	25.4*	25.4*	77.5	196.3	20.7*	20.7*
170	30	70	70.4	195.2	26.6	24.8	72.6	195.0	24.5*	24.5*	74.4	193.0	19.5*	19.5*
170	30	80	67.3	191.3	22.0	20.5	69.5	191.1	22.5	21.1	71.3	189.2	18.4*	18.4*
170	30	90	64.2	186.8	18.5	17.1	66.3	186.7	19.0	17.7	68.1	184.6	17.5*	17.5*
170	30	100	61.0	181.5	15.7	14.5	63.1	181.5	16.1	14.9	64.8	179.4	16.5	15.3
170	30	110	57.6	175.6	13.4	12.3	59.7	175.6	13.8	12.7	61.4	173.4	14.1	13.0
170	30	120	54.2	168.8	11.5	10.5	56.2	168.8	11.9	10.9	57.8	166.5	12.2	11.2
170	30	130	50.6	161.1	10.0	9.1	52.6	161.1	10.3	9.4	54.1	158.7	10.5	9.6
170	30	140	46.7	152.3	8.6	7.8	48.7	152.3	8.9	8.1	50.2	149.6	9.1	8.3
170	30	150	42.7	142.1	7.5	6.7	44.6	142.1	7.7	7.0				
170	30	160	38.3	130.4	6.5	5.8	40.2	130.3	6.7	6.0				
170	30	170	33.4	116.5	5.7	5.0	35.2	116.3	5.8	5.1				
170	30	180	27.7	99.5	4.9	4.2								

LS-238H Tubular Jib Capacities

Capacities shown in thousands of pounds

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.
170	40	40	79.8	213.3	26.7*	26.7*								
170	40	50	77.1	211.2	26.0*	26.0*	79.8	210.7	23.5*	23.5*				
170	40	60	74.2	208.6	25.2*	25.2*	77.0	208.2	22.4*	22.4*	79.5	205.6	17.1*	17.1*
170	40	70	71.4	205.4	24.4*	24.4*	74.1	205.1	21.1*	21.1*	76.6	202.5	16.0*	16.0*
170	40	80	68.5	201.7	22.2	20.7	71.2	201.5	19.8*	19.8*	73.6	198.9	15.2*	15.2*
170	40	90	65.5	197.4	18.6	17.3	68.2	197.2	18.5*	18.0	70.5	194.6	14.4*	14.4*
170	40	100	62.5	192.5	15.8	14.6	65.2	192.3	16.4	15.2	67.4	189.6	13.6*	13.6*
170	40	110	59.4	186.9	13.5	12.5	62.0	186.8	14.1	13.0	64.2	184.0	12.6*	12.6*
170	40	120	56.1	180.5	11.7	10.7	58.8	180.4	12.1	11.2	60.9	177.5	11.8*	11.5
170	40	130	52.8	173.3	10.1	9.2	55.4	173.3	10.5	9.6	57.4	170.2	10.9	9.9
170	40	140	49.3	165.1	8.8	8.0	51.8	165.1	9.1	8.3	53.8	161.9	9.4	8.6
170	40	150	45.6	155.9	7.7	6.9	48.1	155.9	8.0	7.2	49.9	152.4	8.2	7.4
170	40	160	41.6	145.3	6.7	5.9	44.1	145.3	6.9	6.2				
170	40	170	37.3	133.1	5.8	5.1	39.7	133.0	6.0	5.3				
170	40	180	32.5	118.7	5.0	4.4	34.9	118.4	5.2	4.6				
170	40	190	27.0	101.2	4.3	3.7								
170	50	50	77.7	221.4	23.4*	23.4*								
170	50	60	75.0	218.9	22.7*	22.7*	78.3	218.4	20.2*	20.2*				
170	50	70	72.3	215.9	22.0*	22.0*	75.5	215.5	18.7*	18.7*	78.5	212.5	13.1*	13.1*
170	50	80	69.5	212.4	20.5*	20.5*	72.8	212.1	17.2*	17.2*	75.7	209.0	12.0*	12.0*
170	50	90	66.7	208.3	18.7	17.4	69.9	208.1	15.7*	15.7*	72.8	205.0	11.2*	11.2*
170	50	100	63.8	203.6	15.9	14.7	67.0	203.5	14.1*	14.1*	69.8	200.3	10.5*	10.5*
170	50	110	60.9	198.3	13.7	12.6	64.1	198.2	12.5*	12.5*	66.8	195.0	9.7*	9.7*
170	50	120	57.9	192.3	11.8	10.8	61.0	192.3	11.6*	11.4	63.7	189.0	8.9*	8.9*
170	50	130	54.7	185.6	10.2	9.3	57.9	185.6	10.7	9.8	60.4	182.1	8.4*	8.4*
170	50	140	51.5	178.0	8.9	8.1	54.6	178.1	9.4	8.5	57.0	174.4	8.0*	8.0*
170	50	150	48.1	169.4	7.8	7.0	51.1	169.5	8.2	7.4	53.5	165.6	7.6*	7.6*
170	50	160	44.5	159.8	6.8	6.1	47.5	159.9	7.1	6.4	49.7	155.7	7.2*	6.7
170	50	170	40.6	148.8	5.9	5.2	43.6	148.9	6.2	5.5				
170	50	180	36.4	136.2	5.1	4.5	39.3	136.1	5.4	4.8				
170	50	190	31.8	121.3	4.5	3.9	34.6	121.1	4.7	4.1				
170	50	200	26.4	103.3	3.8	3.3								
170	60	50	78.2	231.8	21.2*	21.2*								
170	60	60	75.6	229.4	20.5*	20.5*	79.4	228.9	18.3*	18.3*				
170	60	70	73.1	226.5	19.8*	19.8*	76.8	226.2	17.2*	17.2*				
170	60	80	70.4	223.2	18.1*	18.1*	74.2	222.9	15.6*	15.6*	77.6	219.6	9.6*	9.6*
170	60	90	67.8	219.3	16.6*	16.6*	71.5	219.2	14.0*	14.0*	74.8	215.8	8.6*	8.6*
170	60	100	65.0	214.9	15.2*	14.8	68.8	214.8	12.3*	12.3*	72.0	211.4	8.1*	8.1*
170	60	110	62.3	209.9	13.7	12.7	66.0	209.9	10.6*	10.6*	69.1	206.4	7.5*	7.5*
170	60	120	59.4	204.3	11.9	10.9	63.1	204.4	8.9*	8.9*	66.2	200.7	6.9*	6.9*
170	60	130	56.5	197.9	10.3	9.4	60.1	198.1	8.3*	8.3*	63.1	194.4	6.3*	6.3*
170	60	140	53.4	190.9	9.0	8.2	57.0	191.1	7.7*	7.7*	60.0	187.2	5.8*	5.8*
170	60	150	50.3	183.0	7.9	7.1	53.8	183.2	7.1*	7.1*	56.7	179.1	5.6*	5.6*
170	60	160	46.9	174.1	6.9	6.1	50.5	174.4	6.4*	6.4*	53.2	169.9	5.4*	5.4*
170	60	170	43.4	164.1	6.0	5.3	46.9	164.4	5.9*	5.7	49.5	159.5	5.1*	5.1*
170	60	180	39.7	152.8	5.2	4.6	43.1	153.0	5.6	4.9				

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.
170	60	190	35.6	139.7	4.6	4.0	38.9	139.8	4.8	4.2				
170	60	200	31.0	124.5	3.9	3.4	34.3	124.3	4.2	3.6				
170	60	210	25.8	106.0	3.4	2.8								
170	70	50	78.7	242.2	18.6*	18.6*								
170	70	60	76.2	240.0	17.9*	17.9*								
170	70	70	73.8	237.3	17.3*	17.3*	78.0	237.1	15.2*	15.2*				
170	70	80	71.3	234.1	16.2*	16.2*	75.5	234.0	14.2*	14.2*	79.3	230.5	9.5*	9.5*
170	70	90	68.7	230.5	14.8*	14.8*	72.9	230.5	13.0*	13.0*	76.7	226.9	8.5*	8.5*
170	70	100	66.1	226.3	13.5*	13.5*	70.3	226.4	11.8*	11.8*	74.0	222.8	7.7*	7.7*
170	70	110	63.5	221.6	12.4*	12.4*	67.7	221.8	10.5*	10.5*	71.3	218.1	7.1*	7.1*
170	70	120	60.8	216.3	11.4*	11.0	64.9	216.6	9.3*	9.3*	68.5	212.8	6.6*	6.6*
170	70	130	58.0	210.4	10.4	9.5	62.1	210.8	7.9*	7.9*	65.6	206.9	6.0*	6.0*
170	70	140	55.2	203.8	9.1	8.2	59.3	204.3	7.4*	7.4*	62.6	200.2	5.4*	5.4*
170	70	150	52.2	196.5	7.9	7.2	56.3	197.0	6.8*	6.8*	59.6	192.7	4.9*	4.9*
170	70	160	49.1	188.3	6.9	6.2	53.1	188.8	6.1*	6.1*	56.3	184.2	4.5*	4.5*
170	70	170	45.9	179.1	6.1	5.4	49.9	179.6	5.5*	5.5*	52.9	174.7	4.1*	4.1*
170	70	180	42.5	168.8	5.3	4.7	46.4	169.3	4.9*	4.9*	49.3	163.9	3.7*	3.7*
170	70	190	38.8	157.1	4.6	4.0	42.6	157.6	4.6*	4.4				
170	70	200	34.8	143.8	4.0	3.4	38.6	144.1	4.3	3.7				
170	70	210	30.4	128.1	3.5	2.9	34.0	128.1	3.7	3.2				
170	70	220	25.3	109.2	3.0	2.5								
180	30	40	79.8	213.5	30.0*	30.0*								
180	30	50	77.1	211.4	29.2*	29.2*	79.1	211.1	26.3*	26.3*				
180	30	60	74.2	208.9	28.4*	28.4*	76.3	208.6	25.5*	25.5*	78.1	206.7	21.0*	21.0*
180	30	70	71.4	205.8	26.3	24.5	73.4	205.5	24.8*	24.8*	75.2	203.6	19.8*	19.8*
180	30	80	68.5	202.1	21.8	20.3	70.5	201.9	22.2	20.9	72.3	199.9	18.7*	18.7*
180	30	90	65.5	197.8	18.2	16.9	67.5	197.7	18.8	17.4	69.2	195.7	17.8*	17.8*
180	30	100	62.5	192.9	15.4	14.2	64.5	192.8	15.9	14.7	66.1	190.8	16.3	15.1
180	30	110	59.4	187.3	13.1	12.0	61.3	187.3	13.5	12.5	62.9	185.1	13.9	12.8
180	30	120	56.1	181.0	11.3	10.3	58.1	181.0	11.6	10.6	59.6	178.7	11.9	10.9
180	30	130	52.8	173.8	9.7	8.8	54.7	173.8	10.0	9.1	56.2	171.5	10.3	9.4
180	30	140	49.3	165.7	8.4	7.5	51.2	165.7	8.7	7.8	52.6	163.2	8.9	8.0
180	30	150	45.6	156.5	7.2	6.5	47.4	156.5	7.5	6.7	48.8	153.8	7.7	6.9
180	30	160	41.6	146.0	6.2	5.5	43.5	146.0	6.5	5.7				
180	30	170	37.3	133.8	5.4	4.7	39.1	133.7	5.6	4.9				
180	30	180	32.5	119.5	4.6	4.0	34.3	119.2	4.7	4.1				
180	30	190	27.0	102.0	3.9	3.3								
180	40	50	77.7	221.5	26.1*	26.1*								
180	40	60	75.0	219.0	25.4*	25.4*	77.6	218.5	22.7*	22.7*	80.0	216.0	17.2*	17.2*
180	40	70	72.3	216.0	24.7*	24.7	74.9	215.6	21.5*	21.5*	77.2	213.0	16.2*	16.2*
180	40	80	69.5	212.5	21.9	20.4	72.1	212.2	20.2*	20.2*	74.4	209.5	15.4*	15.4*
180	40	90	66.7	208.4	18.3	17.0	69.3	208.1	19.0*	17.7	71.5	205.5	14.6*	14.6*
180	40	100	63.8	203.7	15.5	14.3	66.4	203.5	16.2	15.0	68.6	200.8	13.9*	13.9*
180	40	110	60.9	198.4	13.3	12.2	63.4	198.3	13.8	12.7	65.5	195.5	13.0*	13.0*
180	40	120	57.9	192.4	11.4	10.4	60.4	192.4	11.9	10.9	62.4	189.5	12.0*	11.3
180	40	130	54.7	185.7	9.8	8.9	57.2	185.7	10.3	9.4	59.2	182.7	10.6	9.7
180	40	140	51.5	178.1	8.5	7.7	53.9	178.1	8.9	8.1	55.8	175.0	9.2	8.4

LS-238H Tubular Jib Capacities

Capacities shown in thousands of pounds

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.
180	40	150	48.1	169.6	7.4	6.6	50.5	169.6	7.7	6.9	52.3	166.3	8.0	7.2
180	40	160	44.5	160.0	6.4	5.7	46.9	160.0	6.7	6.0	48.6	156.4	6.9	6.2
180	40	170	40.6	149.0	5.5	4.8	43.0	149.0	5.8	5.1				
180	40	180	36.4	136.4	4.7	4.1	38.7	136.3	5.0	4.3				
180	40	190	31.8	121.6	4.1	3.5	34.0	121.3	4.2	3.6				
180	40	200	26.4	103.5	3.5	2.9								
180	50	50	78.2	231.7	23.6*	23.6*								
180	50	60	75.6	229.3	22.9*	22.9*	78.8	228.7	20.5*	20.5*				
180	50	70	73.1	226.4	22.2*	22.2*	76.2	226.0	19.1*	19.1*	79.0	222.9	13.4*	13.4*
180	50	80	70.4	223.0	20.5*	20.5	73.6	222.7	17.7*	17.7*	76.3	219.6	12.1*	12.1*
180	50	90	67.8	219.1	18.5	17.1	70.9	218.9	16.2*	16.2*	73.6	215.8	11.4*	11.4*
180	50	100	65.0	214.7	15.6	14.4	68.1	214.5	14.7*	14.7*	70.8	211.4	10.7*	10.7*
180	50	110	62.3	209.7	13.4	12.3	65.3	209.6	13.2*	13.0	67.9	206.3	10.0*	10.0*
180	50	120	59.4	204.0	11.5	10.5	62.5	204.0	12.0*	11.1	65.0	200.7	9.3*	9.3*
180	50	130	56.5	197.7	10.0	9.0	59.5	197.7	10.5	9.6	62.0	194.3	8.5*	8.5*
180	50	140	53.4	190.6	8.6	7.8	56.4	190.7	9.1	8.3	58.8	187.1	8.2*	8.2*
180	50	150	50.3	182.7	7.5	6.7	53.2	182.8	7.9	7.1	55.5	179.0	7.7*	7.5
180	50	160	46.9	173.8	6.5	5.8	49.9	173.9	6.9	6.1	52.0	169.8	6.8*	6.4
180	50	170	43.4	163.8	5.6	4.9	46.3	163.9	6.0	5.3	48.4	159.5	6.1*	5.5
180	50	180	39.7	152.5	4.9	4.2	42.5	152.5	5.1	4.5				
180	50	190	35.6	139.4	4.2	3.6	38.4	139.3	4.4	3.8				
180	50	200	31.0	124.1	3.6	3.0								
180	50	210	25.8	105.6	3.0	2.5								
180	60	50	78.7	242.0	21.3*	21.3*								
180	60	60	76.2	239.7	20.6*	20.6*	79.9	239.2	18.4*	18.4*				
180	60	70	73.8	237.0	19.9*	19.9*	77.4	236.6	17.4*	17.4*				
180	60	80	71.3	233.8	18.1*	18.1*	74.9	233.5	16.0*	16.0*	78.1	230.1	9.9*	9.9*
180	60	90	68.7	230.1	16.6*	16.6*	72.3	229.9	14.4*	14.4*	75.5	226.5	8.8*	8.8*
180	60	100	66.1	225.9	15.3*	14.5	69.7	225.8	12.9*	12.9*	72.9	222.3	8.2*	8.2*
180	60	110	63.5	221.1	13.5	12.4	67.1	221.1	11.3*	11.3*	70.1	217.6	7.7*	7.7*
180	60	120	60.8	215.8	11.6	10.6	64.3	215.9	9.7*	9.7*	67.3	212.2	7.1*	7.1*
180	60	130	58.0	209.9	10.0	9.1	61.5	210.0	8.6*	8.6*	64.5	206.2	6.5*	6.5*
180	60	140	55.2	203.2	8.7	7.9	58.7	203.4	8.0*	8.0*	61.5	199.5	6.0*	6.0*
180	60	150	52.2	195.8	7.6	6.8	55.7	196.0	7.4*	7.3	58.4	191.9	5.7*	5.7*
180	60	160	49.1	187.6	6.6	5.9	52.5	187.8	6.8*	6.3	55.2	183.5	5.4*	5.4*
180	60	170	45.9	178.4	5.7	5.0	49.3	178.6	6.1	5.4	51.8	174.0	4.8*	4.8*
180	60	180	42.5	168.0	5.0	4.3	45.8	168.3	5.3	4.7	48.2	163.2	4.3*	4.3*
180	60	190	38.8	156.3	4.3	3.7	42.1	156.5	4.6	4.0				
180	60	200	34.8	142.9	3.7	3.1	38.0	142.9	3.9	3.3				
180	60	210	30.4	127.2	3.1	2.6	33.5	127.0	3.3	2.8				
180	60	220	25.3	108.2	2.6	2.1								
180	70	50	79.2	252.4	18.7*	18.7*								
180	70	60	76.8	250.2	18.1*	18.1*								
180	70	70	74.4	247.7	17.4*	17.4*	78.5	247.4	15.3*	15.3*				
180	70	80	72.0	244.7	16.3*	16.3*	76.1	244.5	14.3*	14.3*	79.8	240.9	9.6*	9.6*
180	70	90	69.6	241.2	14.8*	14.8*	73.7	241.1	13.2*	13.2*	77.3	237.5	8.8*	8.8*
180	70	100	67.2	237.2	13.6*	13.6*	71.2	237.3	12.2*	12.2*	74.8	233.6	7.8*	7.8*

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.
180	70	110	64.6	232.7	12.5*	12.5	68.6	232.9	11.0*	11.0*	72.2	229.1	7.3*	7.3*
180	70	120	62.1	227.7	11.5*	10.7	66.1	228.0	9.8*	9.8*	69.5	224.1	6.8*	6.8*
180	70	130	59.5	222.1	10.1	9.2	63.4	222.4	8.5*	8.5*	66.8	218.5	6.2*	6.2*
180	70	140	56.8	215.9	8.8	8.0	60.7	216.3	7.7*	7.7*	64.0	212.2	5.5*	5.5*
180	70	150	54.0	209.0	7.7	6.9	57.9	209.4	7.1*	7.1*	61.1	205.1	4.8*	4.8*
180	70	160	51.1	201.3	6.7	5.9	54.9	201.8	6.5*	6.5	58.0	197.3	4.3*	4.3*
180	70	170	48.1	192.8	5.8	5.1	51.9	193.3	5.9*	5.6	54.9	188.5	3.8*	3.8*
180	70	180	44.9	183.3	5.0	4.4	48.7	183.8	5.3*	4.8	51.5	178.6	3.4*	3.4*
180	70	190	41.6	172.6	4.3	3.7	45.3	173.1	4.7	4.1	48.0	167.4	3.1*	3.1*
180	70	200	38.0	160.6	3.7	3.2	41.7	161.0	4.1	3.5				
180	70	210	34.1	146.9	3.2	2.6	37.7	147.1	3.5	2.9				
180	70	220	29.8	130.8	2.7	2.2	33.2	130.7	2.9	2.4				
180	70	230	24.7	111.4	2.2									
190	30	50	77.7	221.7	29.3*	29.3*	79.6	221.4	26.5*	26.5*				
190	30	60	75.0	219.2	28.6*	28.6*	76.9	219.0	25.7*	25.7*	78.7	217.0	21.2*	21.2*
190	30	70	72.3	216.3	26.0	24.2	74.2	216.0	25.0*	25.0*	75.9	214.1	20.0*	20.0*
190	30	80	69.5	212.8	21.5	20.0	71.4	212.6	22.2	20.7	73.1	210.6	19.0*	19.0*
190	30	90	66.7	208.8	17.9	16.6	68.6	208.6	18.5	17.2	70.3	206.6	18.1*	17.7
190	30	100	63.8	204.1	15.1	13.9	65.7	204.0	15.6	14.4	67.3	202.0	16.1	14.9
190	30	110	60.9	198.9	12.8	11.8	62.8	198.8	13.3	12.2	64.3	196.7	13.7	12.6
190	30	120	57.9	192.9	11.0	10.0	59.7	192.9	11.4	10.4	61.2	190.7	11.7	10.7
190	30	130	54.7	186.2	9.4	8.5	56.6	186.2	9.8	8.9	58.0	183.9	10.0	9.1
190	30	140	51.5	178.7	8.1	7.3	53.3	178.7	8.4	7.6	54.7	176.3	8.6	7.8
190	30	150	48.1	170.2	7.0	6.2	49.9	170.2	7.2	6.4	51.2	167.6	7.4	6.6
190	30	160	44.5	160.6	6.0	5.2	46.2	160.6	6.2	5.5	47.5	157.8	6.4	5.6
190	30	170	40.6	149.7	5.1	4.4	42.4	149.7	5.3	4.6				
190	30	180	36.4	137.1	4.3	3.7	38.1	137.0	4.5	3.9				
190	30	190	31.8	122.3	3.6	3.0	33.4	122.1	3.8	3.2				
190	30	200	26.4	104.3	3.0	2.5								
190	40	50	78.2	231.7	26.3*	26.3*								
190	40	60	75.6	229.3	25.6*	25.6*	78.2	228.9	22.9*	22.9*				
190	40	70	73.1	226.5	24.9*	24.4	75.6	226.1	21.8*	21.8*	77.8	223.5	16.4*	16.4*
190	40	80	70.4	223.1	21.7	20.1	72.9	222.8	20.6*	20.6*	75.1	220.2	15.6*	15.6*
190	40	90	67.8	219.2	18.1	16.7	70.2	219.0	18.9	17.5	72.4	216.3	14.8*	14.8*
190	40	100	65.0	214.8	15.3	14.1	67.5	214.6	15.9	14.7	69.6	211.9	14.1*	14.1*
190	40	110	62.3	209.8	13.0	11.9	64.7	209.7	13.6	12.5	66.8	206.9	13.4*	13.0
190	40	120	59.4	204.2	11.1	10.1	61.8	204.1	11.6	10.7	63.8	201.2	12.1	11.1
190	40	130	56.5	197.9	9.6	8.7	58.9	197.8	10.0	9.1	60.8	194.8	10.4	9.5
190	40	140	53.4	190.8	8.2	7.4	55.8	190.7	8.6	7.8	57.7	187.7	9.0	8.1
190	40	150	50.3	182.9	7.1	6.3	52.6	182.8	7.5	6.7	54.4	179.6	7.7	7.0
190	40	160	46.9	174.0	6.1	5.4	49.3	174.0	6.4	5.7	51.0	170.5	6.7	5.9
190	40	170	43.4	164.0	5.2	4.6	45.7	164.0	5.5	4.8	47.3	160.2	5.7	5.0
190	40	180	39.7	152.7	4.5	3.8	41.9	152.6	4.7	4.1				
190	40	190	35.6	139.6	3.8	3.2	37.8	139.5	4.0	3.4				
190	40	200	31.0	124.4	3.2	2.6								
190	40	210	25.8	105.8	2.6	2.1								

LS-238H Tubular Jib Capacities

Capacities shown in thousands of pounds

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.
190	50	50	78.7	241.9	23.7*	23.7*								
190	50	60	76.2	239.6	23.1*	23.1*	79.3	239.0	20.7*	20.7*				
190	50	70	73.8	236.9	22.4*	22.4*	76.8	236.4	19.4*	19.4*	79.5	233.3	13.6*	13.6*
190	50	80	71.3	233.6	20.5*	20.3	74.3	233.3	18.1*	18.1*	76.9	230.1	12.3*	12.3*
190	50	90	68.7	229.9	18.2	16.8	71.7	229.6	16.7*	16.7*	74.3	226.5	11.6*	11.6*
190	50	100	66.1	225.7	15.4	14.2	69.1	225.5	15.2*	15.0	71.7	222.3	11.0*	11.0*
190	50	110	63.5	221.0	13.1	12.0	66.5	220.8	13.8*	12.8	69.0	217.6	10.3*	10.3*
190	50	120	60.8	215.6	11.2	10.3	63.7	215.5	11.9	10.9	66.2	212.2	9.6*	9.6*
190	50	130	58.0	209.6	9.7	8.8	60.9	209.6	10.3	9.4	63.3	206.2	8.8*	8.8*
190	50	140	55.2	203.0	8.3	7.5	58.1	203.0	8.9	8.0	60.4	199.4	8.1*	8.1*
190	50	150	52.2	195.6	7.2	6.4	55.1	195.6	7.7	6.9	57.3	191.9	7.1*	7.1*
190	50	160	49.1	187.3	6.2	5.5	52.0	187.4	6.6	5.9	54.1	183.4	6.4*	6.2
190	50	170	45.9	178.1	5.3	4.7	48.7	178.1	5.7	5.0	50.7	173.9	5.8*	5.3
190	50	180	42.5	167.7	4.6	3.9	45.2	167.8	4.9	4.3				
190	50	190	38.8	156.0	3.9	3.3	41.5	156.0	4.2	3.6				
190	50	200	34.8	142.6	3.3	2.7	37.5	142.4	3.5	2.9				
190	50	210	30.4	126.9	2.7	2.2								
190	50	220	25.3	107.9	2.2									
190	60	50	79.2	252.2	21.4*	21.4*								
190	60	60	76.8	250.0	20.8*	20.8*								
190	60	70	74.4	247.4	19.8*	19.8*	77.9	246.9	17.4*	17.4*				
190	60	80	72.0	244.3	18.1*	18.1*	75.5	244.0	16.1*	16.1*	78.6	240.5	10.2*	10.2*
190	60	90	69.6	240.8	16.7*	16.7*	73.1	240.6	14.9*	14.9*	76.2	237.1	8.9*	8.9*
190	60	100	67.2	236.8	15.3*	14.3	70.6	236.6	13.4*	13.4*	73.6	233.1	8.4*	8.4*
190	60	110	64.6	232.3	13.2	12.1	68.1	232.2	11.9*	11.9*	71.0	228.6	7.9*	7.9*
190	60	120	62.1	227.2	11.3	10.3	65.5	227.2	10.3*	10.3*	68.4	223.6	7.3*	7.3*
190	60	130	59.5	221.6	9.8	8.9	62.8	221.6	8.9*	8.9*	65.7	217.9	6.8*	6.8*
190	60	140	56.8	215.3	8.4	7.6	60.1	215.4	8.3*	8.2	62.9	211.6	6.2*	6.2*
190	60	150	54.0	208.4	7.3	6.5	57.3	208.5	7.8*	7.1	60.0	204.5	5.7*	5.7*
190	60	160	51.1	200.6	6.3	5.6	54.4	200.9	6.8	6.1	57.0	196.6	5.1*	5.1*
190	60	170	48.1	192.1	5.4	4.8	51.3	192.3	5.9	5.2	53.8	187.8	4.5*	4.5*
190	60	180	44.9	182.5	4.7	4.0	48.1	182.8	5.1	4.4	50.5	177.9	4.1*	4.1*
190	60	190	41.6	171.9	4.0	3.4	44.7	172.0	4.3	3.7	47.0	166.8	3.7*	3.7*
190	60	200	38.0	159.8	3.4	2.8	41.1	159.9	3.7	3.1				
190	60	210	34.1	146.0	2.8	2.3	37.1	146.0	3.1	2.5				
190	60	220	29.8	129.9	2.3									
190	70	50	79.6	262.6	18.8*	18.8*								
190	70	60	77.3	260.5	18.2*	18.2*								
190	70	70	75.1	258.0	17.6*	17.6*	79.0	257.7	15.4*	15.4*				
190	70	80	72.8	255.2	16.3*	16.3*	76.7	254.9	14.3*	14.3*				
190	70	90	70.4	251.8	14.8*	14.8*	74.3	251.7	13.2*	13.2*	77.8	248.0	9.0*	9.0*
190	70	100	68.1	248.0	13.6*	13.6*	71.9	248.0	12.2*	12.2*	75.4	244.3	7.9*	7.9*
190	70	110	65.7	243.8	12.5*	12.2	69.5	243.8	11.3*	11.3*	72.9	240.1	7.4*	7.4*
190	70	120	63.2	239.0	11.4	10.4	67.1	239.2	10.2*	10.2*	70.4	235.3	6.8*	6.8*
190	70	130	60.7	233.7	9.8	8.9	64.6	233.9	9.1*	9.1*	67.8	230.0	5.9*	5.9*
190	70	140	58.2	227.8	8.5	7.7	62.0	228.1	7.9*	7.9*	65.2	224.0	5.2*	5.2*
190	70	150	55.6	221.2	7.4	6.6	59.3	221.6	7.4*	7.2	62.4	217.4	4.5*	4.5*
190	70	160	52.8	214.0	6.4	5.7	56.6	214.4	6.8*	6.2	59.6	210.0	4.0*	4.0*

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Ctwt.	ABC+0 Ctwt.
190	70	170	50.0	206.0	5.5	4.8	53.7	206.5	6.0	5.3	56.6	201.8	3.6*	3.6*
190	70	180	47.1	197.2	4.7	4.1	50.7	197.7	5.2	4.6	53.6	192.7	3.3*	3.3*
190	70	190	44.0	187.4	4.1	3.5	47.6	187.8	4.5	3.9	50.3	182.4	3.0*	3.0*
190	70	200	40.7	176.4	3.4	2.9	44.3	176.8	3.8	3.2	46.8	170.9	2.7*	2.7*
190	70	210	37.2	164.0	2.9	2.3	40.7	164.3	3.2	2.7				
190	70	220	33.4	149.9	2.4		36.8	150.0	2.7					
200	30	50	78.2	231.9	29.5*	29.5*								
200	30	60	75.6	229.6	28.8*	28.8*	77.5	229.3	25.9*	25.9*	79.2	227.3	21.4*	21.4*
200	30	70	73.1	226.8	25.7	24.0	74.9	226.5	25.2*	24.8	76.6	224.5	20.3*	20.3*
200	30	80	70.4	223.4	21.3	19.7	72.3	223.2	22.0	20.5	73.9	221.3	19.2*	19.2*
200	30	90	67.8	219.6	17.7	16.3	69.6	219.4	18.3	16.9	71.2	217.4	18.3*	17.5
200	30	100	65.0	215.2	14.8	13.6	66.9	215.1	15.4	14.2	68.4	213.0	15.9	14.7
200	30	110	62.3	210.3	12.6	11.5	64.1	210.2	13.1	12.0	65.6	208.1	13.5	12.4
200	30	120	59.4	204.7	10.7	9.7	61.2	204.6	11.1	10.1	62.7	202.4	11.5	10.5
200	30	130	56.5	198.4	9.1	8.2	58.3	198.3	9.5	8.6	59.7	196.1	9.8	8.9
200	30	140	53.4	191.3	7.8	7.0	55.2	191.3	8.1	7.3	56.6	189.0	8.4	7.6
200	30	150	50.3	183.5	6.7	5.9	52.0	183.5	7.0	6.2	53.3	180.9	7.2	6.4
200	30	160	46.9	174.6	5.7	5.0	48.7	174.6	5.9	5.2	49.9	171.9	6.1	5.4
200	30	170	43.4	164.7	4.8	4.1	45.1	164.7	5.0	4.4	46.3	161.7	5.2	4.5
200	30	180	39.7	153.4	4.1	3.4	41.3	153.3	4.2	3.6				
200	30	190	35.6	140.4	3.4	2.8	37.2	140.2	3.5	2.9				
200	30	200	31.0	125.1	2.8	2.2								
200	30	210	25.8	106.7	2.2									
200	40	50	78.7	241.9	26.4*	26.4*								
200	40	60	76.2	239.7	25.7*	25.7*	78.7	239.2	23.1*	23.1*				
200	40	70	73.8	236.9	25.1*	24.1	76.2	236.5	22.0*	22.0*	78.3	233.9	16.6*	16.6*
200	40	80	71.3	233.7	21.4	19.9	73.7	233.4	20.9*	20.8	75.8	230.7	15.7*	15.7*
200	40	90	68.7	230.0	17.8	16.5	71.1	229.7	18.6	17.3	73.2	227.1	15.0*	15.0*
200	40	100	66.1	225.8	15.0	13.8	68.5	225.6	15.7	14.5	70.5	222.9	14.3*	14.3*
200	40	110	63.5	221.1	12.7	11.6	65.9	220.9	13.3	12.3	67.8	218.1	13.4*	12.8
200	40	120	60.8	215.7	10.8	9.9	63.1	215.6	11.4	10.4	65.1	212.8	11.9	10.9
200	40	130	58.0	209.8	9.3	8.4	60.4	209.7	9.8	8.9	62.2	206.8	10.2	9.3
200	40	140	55.2	203.1	8.0	7.1	57.5	203.1	8.4	7.6	59.3	200.0	8.8	7.9
200	40	150	52.2	195.7	6.8	6.0	54.5	195.7	7.2	6.4	56.2	192.5	7.5	6.7
200	40	160	49.1	187.5	5.8	5.1	51.4	187.5	6.2	5.4	53.0	184.1	6.4	5.7
200	40	170	45.9	178.3	5.0	4.3	48.1	178.2	5.3	4.6	49.7	174.7	5.5	4.8
200	40	180	42.5	167.9	4.2	3.5	44.6	167.9	4.5	3.8				
200	40	190	38.8	156.2	3.5	2.9	40.9	156.1	3.7	3.1				
200	40	200	34.8	142.8	2.9	2.3	36.9	142.6	3.1	2.5				
200	40	210	30.4	127.1	2.3									
200	50	50	79.2	252.1	23.8*	23.8*								
200	50	60	76.8	249.9	23.2*	23.2*	79.7	249.3	20.8*	20.8*				
200	50	70	74.4	247.3	22.6*	22.6*	77.3	246.8	19.6*	19.6*	80.0	243.6	13.9*	13.9*
200	50	80	72.0	244.2	20.4*	20.0	74.9	243.8	18.3*	18.3*	77.5	240.6	12.5*	12.5*
200	50	90	69.6	240.7	17.9	16.6	72.5	240.3	17.0*	17.0*	75.0	237.1	11.8*	11.8*
200	50	100	67.2	236.6	15.1	13.9	70.0	236.4	15.7*	14.8	72.5	233.2	11.2*	11.2*
200	50	110	64.6	232.1	12.8	11.7	67.5	231.9	13.6	12.5	69.9	228.6	10.5*	10.5*

LS-238H Tubular Jib Capacities

Capacities shown in thousands of pounds

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.
200	50	120	62.1	227.0	11.0	10.0	64.9	226.9	11.6	10.7	67.3	223.6	9.7*	9.7*
200	50	130	59.5	221.4	9.4	8.5	62.3	221.3	10.0	9.1	64.6	217.9	8.5*	8.5*
200	50	140	56.8	215.1	8.1	7.2	59.5	215.0	8.6	7.8	61.8	211.5	7.5*	7.5*
200	50	150	54.0	208.1	6.9	6.1	56.7	208.1	7.4	6.6	58.9	204.5	6.7*	6.7*
200	50	160	51.1	200.4	5.9	5.2	53.8	200.4	6.4	5.6	55.9	196.6	6.0*	6.0
200	50	170	48.1	191.8	5.1	4.4	50.8	191.8	5.5	4.8	52.8	187.8	5.4*	5.1
200	50	180	44.9	182.2	4.3	3.7	47.6	182.3	4.6	4.0	49.5	177.9	4.7*	4.3
200	50	190	41.6	171.6	3.6	3.0	44.2	171.6	3.9	3.3				
200	50	200	38.0	159.5	3.0	2.4	40.6	159.4	3.3	2.7				
200	50	210	34.1	145.7	2.4		36.6	145.5	2.7					
200	60	50	79.6	262.4	21.5*	21.5*								
200	60	60	77.3	260.3	20.9*	20.9*								
200	60	70	75.1	257.8	19.7*	19.7*	78.4	257.3	17.3*	17.3*				
200	60	80	72.8	254.8	18.1*	18.1*	76.1	254.4	16.1*	16.1*	79.1	251.0	10.5*	10.5*
200	60	90	70.4	251.5	16.6*	16.6*	73.8	251.2	14.9*	14.9*	76.7	247.7	9.1*	9.1*
200	60	100	68.1	247.6	15.2	14.0	71.4	247.4	13.8*	13.8*	74.3	243.9	8.5*	8.5*
200	60	110	65.7	243.3	12.9	11.8	69.0	243.2	12.4*	12.4*	71.8	239.6	8.0*	8.0*
200	60	120	63.2	238.5	11.0	10.1	66.5	238.4	11.0*	10.9	69.3	234.8	7.5*	7.5*
200	60	130	60.7	233.1	9.5	8.6	64.0	233.2	9.5*	9.3	66.7	229.4	6.8*	6.8*
200	60	140	58.2	227.2	8.2	7.3	61.4	227.3	8.6*	8.0	64.1	223.4	6.0*	6.0*
200	60	150	55.6	220.6	7.0	6.2	58.8	220.8	7.6	6.8	61.4	216.7	5.3*	5.3*
200	60	160	52.8	213.4	6.0	5.3	56.0	213.5	6.6	5.8	58.6	209.4	4.8*	4.8*
200	60	170	50.0	205.3	5.2	4.5	53.2	205.5	5.6	4.9	55.6	201.1	4.2*	4.2*
200	60	180	47.1	196.5	4.4	3.7	50.2	196.7	4.8	4.2	52.5	192.0	3.8*	3.8*
200	60	190	44.0	186.6	3.7	3.1	47.1	186.8	4.1	3.5	49.3	181.8	3.5*	3.5*
200	60	200	40.7	175.6	3.1	2.5	43.8	175.7	3.4	2.8				
200	60	210	37.2	163.2	2.5	2.0	40.2	163.2	2.8	2.3				
200	60	220	33.4	149.0	2.0		36.3	148.9	2.3					
200	70	50	80.0	272.7	18.9*	18.9*								
200	70	60	77.8	270.8	18.3*	18.3*								
200	70	70	75.6	268.4	17.8*	17.8*	79.4	268.0	15.5*	15.5*				
200	70	80	73.4	265.6	16.2*	16.2*	77.2	265.3	14.2*	14.2*				
200	70	90	71.2	262.4	14.8*	14.8*	74.9	262.3	13.2*	13.2*	78.3	258.5	9.2*	9.2*
200	70	100	68.9	258.8	13.6*	13.6*	72.7	258.7	12.2*	12.2*	76.0	255.0	8.2*	8.2*
200	70	110	66.6	254.7	12.5*	11.9	70.4	254.7	11.3*	11.3*	73.6	250.9	7.4*	7.4*
200	70	120	64.3	250.1	11.1	10.1	68.0	250.2	10.3*	10.3*	71.2	246.4	6.5*	6.5*
200	70	130	61.9	245.1	9.6	8.7	65.6	245.3	9.2*	9.2*	68.8	241.3	5.6*	5.6*
200	70	140	59.5	239.4	8.2	7.4	63.1	239.7	8.1*	8.2	66.2	235.6	5.0*	5.0*
200	70	150	57.0	233.2	7.1	6.3	60.6	233.6	7.3*	7.0	63.6	229.4	4.4*	4.4*
200	70	160	54.4	226.4	6.1	5.4	58.0	226.8	6.5*	6.0	61.0	222.4	3.9*	3.9*
200	70	170	51.8	218.9	5.2	4.5	55.4	219.3	5.8	5.1	58.2	214.7	3.5*	3.5*
200	70	180	49.0	210.6	4.5	3.8	52.6	211.1	5.0	4.3	55.3	206.2	3.1*	3.1*
200	70	190	46.2	201.5	3.8	3.2	49.7	201.9	4.2	3.6	52.3	196.7	2.7*	2.7*
200	70	200	43.1	191.4	3.2	2.6	46.6	191.8	3.6	3.0	49.1	186.2	2.5*	2.5*
200	70	210	39.9	180.1	2.6	2.1	43.3	180.4	3.0	2.4	45.7	174.2	2.2*	2.2*
200	70	220	36.5	167.4	2.1		39.9	167.6	2.4					

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.
210	30	50	78.7	242.1	29.6*	29.6*								
210	30	60	76.2	239.9	28.9*	28.9*	78.1	239.6	26.0*	26.0*	79.7	237.6	21.6*	21.6*
210	30	70	73.8	237.2	25.5	23.7	75.6	236.9	25.3*	24.6	77.2	234.9	20.5*	20.5*
210	30	80	71.3	234.0	21.0	19.5	73.1	233.8	21.8	20.2	74.6	231.8	19.5*	19.5*
210	30	90	68.7	230.4	17.4	16.1	70.5	230.2	18.1	16.7	72.0	228.2	18.6*	17.3
210	30	100	66.1	226.2	14.6	13.4	67.9	226.1	15.1	14.0	69.4	224.0	15.6	14.4
210	30	110	63.5	221.5	12.3	11.2	65.3	221.4	12.8	11.7	66.7	219.3	13.2	12.1
210	30	120	60.8	216.2	10.4	9.5	62.6	216.1	10.9	9.9	64.0	214.0	11.2	10.3
210	30	130	58.0	210.3	8.9	8.0	59.8	210.2	9.3	8.4	61.1	208.0	9.6	8.7
210	30	140	55.2	203.7	7.5	6.7	56.9	203.6	7.9	7.1	58.2	201.3	8.2	7.3
210	30	150	52.2	196.3	6.4	5.6	53.9	196.3	6.7	5.9	55.2	193.8	6.9	6.2
210	30	160	49.1	188.1	5.4	4.7	50.8	188.1	5.7	5.0	52.0	185.5	5.9	5.2
210	30	170	45.9	178.9	4.5	3.9	47.5	178.9	4.8	4.1	48.7	176.1	5.0	4.3
210	30	180	42.5	168.6	3.8	3.1	44.1	168.6	4.0	3.3				
210	30	190	38.8	156.9	3.1	2.5	40.4	156.8	3.3	2.7				
210	30	200	34.8	143.5	2.5		36.4	143.4	2.6					
210	40	50	79.2	252.1	26.5*	26.5*								
210	40	60	76.8	250.0	25.9*	25.9*	79.1	249.4	23.3*	23.3*				
210	40	70	74.4	247.3	25.3*	23.8	76.8	246.9	22.3*	22.3*	78.8	244.2	16.7*	16.7*
210	40	80	72.0	244.3	21.1	19.6	74.3	243.9	21.0*	20.6	76.4	241.2	15.9*	15.9*
210	40	90	69.6	240.8	17.5	16.2	71.9	240.4	18.4	17.1	73.9	237.7	15.2*	15.2*
210	40	100	67.2	236.7	14.7	13.5	69.4	236.5	15.5	14.3	71.4	233.7	14.1*	14.1*
210	40	110	64.6	232.2	12.4	11.4	66.9	232.0	13.1	12.0	68.8	229.2	12.4*	12.4*
210	40	120	62.1	227.1	10.6	9.6	64.3	227.0	11.2	10.2	66.2	224.2	10.9*	10.7
210	40	130	59.5	221.5	9.0	8.1	61.7	221.4	9.5	8.6	63.5	218.5	9.6*	9.1
210	40	140	56.8	215.2	7.7	6.8	59.0	215.1	8.1	7.3	60.7	212.1	8.5	7.7
210	40	150	54.0	208.3	6.5	5.8	56.2	208.2	6.9	6.2	57.9	205.1	7.3	6.5
210	40	160	51.1	200.5	5.5	4.8	53.3	200.5	5.9	5.2	54.9	197.2	6.2	5.5
210	40	170	48.1	192.0	4.7	4.0	50.2	191.9	5.0	4.3	51.8	188.5	5.2	4.6
210	40	180	44.9	182.4	3.9	3.3	47.0	182.4	4.2	3.6	48.5	178.7	4.4	3.8
210	40	190	41.6	171.7	3.2	2.6	43.7	171.7	3.5	2.9				
210	40	200	38.0	159.7	2.6	2.0	40.0	159.5	2.8	2.2				
210	40	210	34.1	145.9	2.1		36.1	145.6	2.2					
210	50	50	79.6	262.3	24.0*	24.0*								
210	50	60	77.3	260.2	23.4*	23.4*								
210	50	70	75.1	257.7	22.7*	22.7*	77.8	257.1	19.5*	19.5*				
210	50	80	72.8	254.7	20.2*	19.7	75.5	254.2	18.2*	18.2*	78.0	251.1	12.8*	12.8*
210	50	90	70.4	251.3	17.6	16.3	73.2	250.9	17.0*	17.0*	75.6	247.7	12.0*	12.0*
210	50	100	68.1	247.5	14.8	13.6	70.8	247.2	15.7	14.6	73.2	243.9	11.4*	11.4*
210	50	110	65.7	243.1	12.5	11.5	68.4	242.9	13.4	12.3	70.8	239.6	10.2*	10.2*
210	50	120	63.2	238.3	10.7	9.7	66.0	238.1	11.4	10.4	68.3	234.8	8.9*	8.9*
210	50	130	60.7	232.9	9.1	8.2	63.4	232.8	9.8	8.9	65.7	229.4	8.0*	8.0*
210	50	140	58.2	227.0	7.8	6.9	60.9	226.9	8.4	7.5	63.1	223.4	7.0*	7.0*
210	50	150	55.6	220.4	6.6	5.9	58.2	220.4	7.2	6.4	60.3	216.7	6.2*	6.2*
210	50	160	52.8	213.1	5.6	4.9	55.5	213.1	6.1	5.4	57.5	209.3	5.5*	5.5*
210	50	170	50.0	205.1	4.8	4.1	52.6	205.1	5.2	4.5	54.6	201.1	5.0*	4.8
210	50	180	47.1	196.2	4.0	3.4	49.7	196.2	4.4	3.7	51.6	192.0	4.4*	4.0
210	50	190	44.0	186.3	3.3	2.7	46.5	186.3	3.7	3.1	48.3	181.8	3.9	3.3

LS-238H Tubular Jib Capacities

Capacities shown in thousands of pounds

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			0 Degrees				15 Degrees				30 Degrees			
			Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.	Boom Angle (deg)	Jib Pt. Height (feet)	ABC+ 20,000# Cwt.	ABC+0 Cwt.
210	50	200	40.7	175.3	2.7	2.1	43.2	175.3	3.0	2.4				
210	50	210	37.2	162.9	2.2		39.7	162.8	2.4					
210	60	50	80.0	272.5	21.6*	21.6*								
210	60	60	77.8	270.5	21.1*	21.1*								
210	60	70	75.6	268.1	19.6*	19.6*	78.9	267.6	17.2*	17.2*				
210	60	80	73.4	265.3	17.9*	17.9*	76.6	264.9	16.0*	16.0*	79.5	261.3	10.8*	10.8*
210	60	90	71.2	262.1	16.5*	16.4	74.4	261.7	14.8*	14.8*	77.3	258.2	9.4*	9.4*
210	60	100	68.9	258.4	14.9	13.7	72.1	258.1	13.8*	13.8*	74.9	254.6	8.6*	8.6*
210	60	110	66.6	254.3	12.6	11.6	69.8	254.1	12.3*	12.3*	72.6	250.5	8.2*	8.2*
210	60	120	64.3	249.7	10.8	9.8	67.5	249.6	10.9*	10.6	70.2	245.9	7.4*	7.4*
210	60	130	61.9	244.6	9.2	8.3	65.1	244.5	9.7*	9.1	67.7	240.8	6.5*	6.5*
210	60	140	59.5	238.9	7.9	7.0	62.6	238.9	8.6	7.7	65.2	235.1	5.7*	5.7*
210	60	150	57.0	232.7	6.7	6.0	60.1	232.8	7.4	6.6	62.6	228.8	5.0*	5.0*
210	60	160	54.4	225.8	5.7	5.0	57.5	225.9	6.3	5.6	60.0	221.8	4.4*	4.4*
210	60	170	51.8	218.3	4.9	4.2	54.8	218.4	5.4	4.7	57.2	214.1	4.0*	4.0*
210	60	180	49.0	209.9	4.1	3.5	52.0	210.1	4.6	3.9	54.4	205.6	3.6*	3.6*
210	60	190	46.2	200.8	3.4	2.8	49.1	200.9	3.8	3.2	51.3	196.1	3.2*	3.2*
210	60	200	43.1	190.6	2.8	2.2	46.1	190.8	3.2	2.6	48.2	185.5	2.9*	2.9*
210	60	210	39.9	179.3	2.2		42.8	179.4	2.6					
210	70	60	78.2	281.0	18.5*	18.5*								
210	70	70	76.1	278.7	17.7*	17.7*	79.8	278.3	15.4*	15.4*				
210	70	80	74.0	276.0	16.1*	16.1*	77.7	275.7	14.2*	14.2*				
210	70	90	71.9	273.0	14.7*	14.7*	75.5	272.8	13.1*	13.1*	78.8	269.0	9.3*	9.3*
210	70	100	69.7	269.5	13.5*	13.5*	73.3	269.4	12.1*	12.1*	76.5	265.6	8.2*	8.2*
210	70	110	67.5	265.6	12.5*	11.6	71.1	265.5	10.9*	10.9*	74.3	261.7	7.1*	7.1*
210	70	120	65.3	261.2	10.8	9.9	68.9	261.2	9.5*	9.5*	72.0	257.3	6.2*	6.2*
210	70	130	63.0	256.3	9.3	8.4	66.6	256.5	8.5*	8.5*	69.6	252.5	5.3*	5.3*
210	70	140	60.7	251.0	7.9	7.1	64.2	251.2	7.6*	7.6*	67.2	247.1	4.7*	4.7*
210	70	150	58.3	245.1	6.8	6.0	61.8	245.4	6.8*	6.8	64.8	241.2	4.2*	4.2*
210	70	160	55.9	238.6	5.8	5.1	59.4	238.9	6.0*	5.7	62.2	234.6	3.7*	3.7*
210	70	170	53.4	231.5	4.9	4.3	56.8	231.9	5.4*	4.9	59.6	227.3	3.2*	3.2*
210	70	180	50.8	223.7	4.2	3.5	54.2	224.1	4.7	4.1	56.9	219.3	2.9*	2.9*
210	70	190	48.1	215.1	3.5	2.9	51.5	215.6	4.0	3.4	54.1	210.5	2.6*	2.6*
210	70	200	45.3	205.7	2.9	2.3	48.6	206.1	3.3	2.7	51.1	200.7	2.3*	2.3*
210	70	210	42.3	195.3	2.3		45.6	195.7	2.7		48.0	189.8	2.1*	

LS-238H Tubular Jib Capacity Notes:

1. Capacities are for an LS-238H with "ABC" (69,000 lbs. - 31 298 kg) counterweight, 26' (7.92 m) live mast, and 1-3/8" (35 mm) diameter pendants.
2. Capacities are shown in thousands of pounds and are not more than 75% of the tipping loads with the machine standing level on a firm supporting surface.
3. Capacities are limited to a Link-Belt 62" x 70" (1.57 x 1.78 m) cross-section open throat tube boom and a 30" x 36" (.75 x .91 m) cross-section tube jib with a jib strut properly assembled.
4. Two parts of 7/8" (22 mm) diameter L-BS Type "RB" wire rope are required for maximum lift. For single part operation, 7/8" (22 mm) diameter L-BS Type "RB" wire rope is recommended.
5. Capacities are for 30' (9.14 m) thru 70' (21.34 m) jib lengths.
6. The maximum boom and jib combination is: 210' (64.01 m) boom + 70' (21.34 m) jib.
7. The least stable condition is over the side.
8. Booms must be erected and lowered over the end.
9. Those capacities followed by an asterisk (*) are governed by factors other than those that would cause a tipping condition.
10. A deduction must be made from the jib capacities for weights of hook blocks, hooks, slings, grapples, load weighing devices, etc.
11. When using the main hook, while a jib is attached, reduce the main boom capacities by the following values:
 - a) 30' (9.14 m) jib - 2,200 lbs. (998 kg)
 - b) 40' (12.19 m) jib - 2,500 lbs. (1 134 kg)
 - c) 50' (15.24 m) jib - 2,900 lbs. (1 315 kg)
 - d) 60' (18.29 m) jib - 3,200 lbs. (1 452 kg)
 - e) 70' (21.34 m) jib - 3,500 lbs. (1 588 kg)
12. Refer to all notes on applicable lifting crane capacities in the crane rating manual in addition to these notes.
13. These capacities apply only to the crane as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.

LS-238H Tube Boom Working Range

Link-Belt Construction Equipment Company Lexington, Kentucky

A unit of Sumitomo Construction Machinery Co., Ltd.

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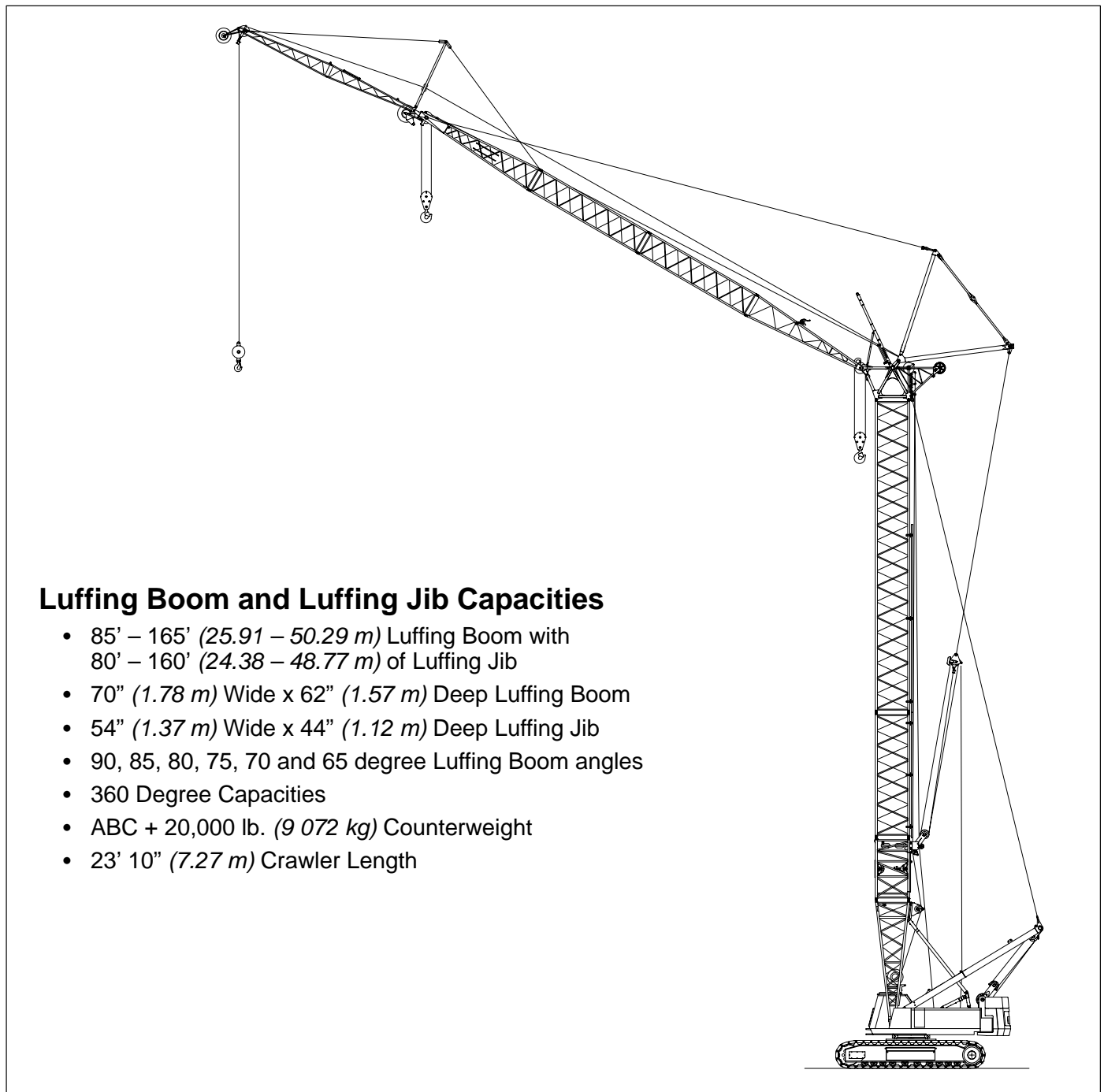
Lifting Capacities

Lattice Boom Crawler Crane with Luffing Attachment

LS-238H

27-ton (24.50 metric ton)

HYLAB Series



Luffing Boom and Luffing Jib Capacities

- 85' – 165' (25.91 – 50.29 m) Luffing Boom with 80' – 160' (24.38 – 48.77 m) of Luffing Jib
- 70" (1.78 m) Wide x 62" (1.57 m) Deep Luffing Boom
- 54" (1.37 m) Wide x 44" (1.12 m) Deep Luffing Jib
- 90, 85, 80, 75, 70 and 65 degree Luffing Boom angles
- 360 Degree Capacities
- ABC + 20,000 lb. (9 072 kg) Counterweight
- 23' 10" (7.27 m) Crawler Length



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 kips (1,000 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 B30.5c-1994, SAE J987-April 1994, and SAE J765-October 1990.

SET UP:

1. For all operating conditions, the crane must be leveled on a firm supporting surface that will adequately support the loadings without settling or collapsing.

WARNING

For over end capacities and lift off of combinations with luffing boom lengths longer than 125', the idlers/sprockets must be blocked with 5/8" steel plate.

2. Counterweights: All luffing attachment combinations require "ABC" (69,000 lb) upper counterweight and "20K" (20,000 lb) lower counterweight.
3. Refer to the Operator's Manual for instructions pertaining to assembly and raising and lowering of the attachment.
4. The fixed jib has only one length (30 ft) and only one offset with respect to the luffing jib (5 degrees).

LUFFING ATTACHMENT OPERATION:

1. Capacities shown are in kips (1,000 pounds) and are not more than 75% of the tipping loads with the crane standing level on a firm supporting surface. A deduction must be made from these capacities for weight of hook block, hook ball, sling, grapple, load weighing device, etc. Deduct 1.5 pounds for every foot of extra wire rope hoist line reeving. When lifting from the luffing jib with the fixed jib installed, reduce capacities by the values shown on the Capacity Deductions For Auxiliary Load Handling Equipment. See Operator's Manual for all limitations when raising or lowering the attachment.
2. Do not suspend more than one load at a time.
3. The crane capacities marked with an asterisk (*) are based on structural strength. The crane capacities in the non-asterisked areas are based on stability ratings.
4. For recommended reeving, parts of line, wire rope type, and wire rope inspection, see Operator's Manual and Parts Manual.
5. 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 on load, ground conditions, and operating speeds. The operator shall therefore reduce load ratings in order to take these conditions into account. Refer to the Wind Speed Restrictions and Job Site Travel Restrictions for safe operation, travel, and storage of the attachment.
6. The 26 ft luffing boom live mast must be used for all capacities shown in this Crane Rating Manual.
7. The least stable rated condition is over the end with **unblocked** sprockets and idlers.
8. Refer to the enclosed charts for allowable attachment liftoff lengths and allowable working lengths at the various luffing boom angles.
9. Do not operate at radii or boom lengths where this Crane Rating Manual lists no capacity. Do not use longer booms or jibs than those listed in this Crane Rating Manual. Any of the above can cause a tipping condition or boom and jib failure.
10. Do not travel with a load.

WIRE ROPE CAPACITY CHART

Parts of Line	3/4"		7/8"		Notes
	Type RB	Type N	Type LB	Type RB	
1	12,960*	22,740	25,020	17,520*	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.
2	25,920	45,480	50,050	35,040	
3	38,880	68,220	75,080	52,560	
4	51,840	90,970	100,110	70,080	
5	64,800	113,710	125,140	87,600	
6	77,760	136,450	150,170	105,120	
7	90,720	159,200	175,200	122,640	
8	103,680	181,940	200,220	140,160	
9	116,640	204,680	225,250	157,680	
10	129,600	227,420	250,280	175,200	
11	142,560	250,170	275,310	192,720	
12	155,520	272,910	300,340	210,240	
13	168,480	295,650	325,370	227,760	
14	181,440	318,400	350,400	245,280	

LBCE Type	Description
N	6 X 25 (6 X 19 Class) – Filler Wire – Extra Improved Plow Steel – Preformed – I.W.R.C. – Right Lay – Regular Lay
RB	Rotation Resistant – 19 Strand, Compacted Strand – Extra Extra Improved Plow Steel – Preformed – Right Lay – Regular Lay
LB	6 Strand, Compacted Strand – Seale or Warrington Seale – Preformed – I.W.R.C. – Right Lay – Regular Lay

* Use of swivel end with 1 part of line is not recommended.

CAPACITY DEDUCTIONS FOR AUXILIARY LOAD HANDLING EQUIPMENT

Lifting From Luffing Jib With:	Weight (lb)
30 ft Fixed Jib Installed	4,000
15-ton hook ball on fixed jib *	750
15-ton hook ball on auxiliary sheave *	750
60-ton hook block on auxiliary sheave *	1,700
Extra wire rope hoist line reeving	1.5 lbs/ft
Lifting From Auxiliary Sheave With:	Weight (lb)
15 Ton Hook Ball on Fixed Jib *	750
15 Ton Hook Ball on Luffing Jib *	750
60 Ton Hook Block on Luffing Jib *	1,700
Pendant Deflector (w/o Luffing Jib)	500
Luffing Jib Backstops (w/o Luffing Jib)	750
80' Luffing Jib	16,500
90' Luffing Jib	17,700
100' Luffing Jib	19,000
110' Luffing Jib	20,400
120' Luffing Jib	21,800
130' Luffing Jib	23,200
140' Luffing Jib	24,700
150' Luffing Jib	26,300
160' Luffing Jib	27,900
80' Luffing Jib + 30' Fixed Jib	20,200
90' Luffing Jib + 30' Fixed Jib	21,700
100' Luffing Jib + 30' Fixed Jib	23,200
110' Luffing Jib + 30' Fixed Jib	24,700
120' Luffing Jib + 30' Fixed Jib	26,300
130' Luffing Jib + 30' Fixed Jib	28,000
140' Luffing Jib + 30' Fixed Jib	29,600
150' Luffing Jib + 30' Fixed Jib	31,400
Extra Wire Rope Hoist Line Reeving	1.5 lbs/ft

* – (see hook block for actual weight)

WIND SPEED RESTRICTIONS

- Failure to follow these wind speed restrictions may result in structural failure of the luffing jib and/or luffing boom, which would cause property damage and/or bodily injury.
- The effects of the wind force on the hook load are the responsibility of the user and are not taken into account. When hoisting any load in windy conditions, the load wind area and load controllability must be considered for safe crane operation.
- Wind speed is to be determined at the luffing boom cap.

WIND SPEED CHART

Luffing Boom Lengths: 85' to 145'	
Luffing Jib Only Lengths: 80' to 120'	
Luffing Jib + Fixed Jib Lengths: 80 + 30' or 90' + 30'	
DESCRIPTION	ALLOWABLE WIND SPEED IN M.P.H.
1. Normal Lifting Operation. (See Capacity Charts)	0–25
2. Reduced Operation. Capacities must be reduced by 50%.	26–40
3. No Operation. Store Attachment On Ground.	Over 40
4. Job Site Travel Charts. (See Operator's Manual)	0–15
Luffing Boom Lengths: 155' or 165'	
Luffing Jib Only Lengths: 130' to 160'	
Luffing Jib + Fixed Jib Lengths: 100' + 30' to 150' + 30'	
DESCRIPTION	ALLOWABLE WIND SPEEDS IN M.P.H.
1. Normal Lifting Operation. (See Capacity Charts)	0–25
2. No Operation. Store Attachment.*	26–40
3. No Operation. Store Attachment On Ground.	Over 40
4. Job Site Travel Charts. (See Operator's Manual)	0–15

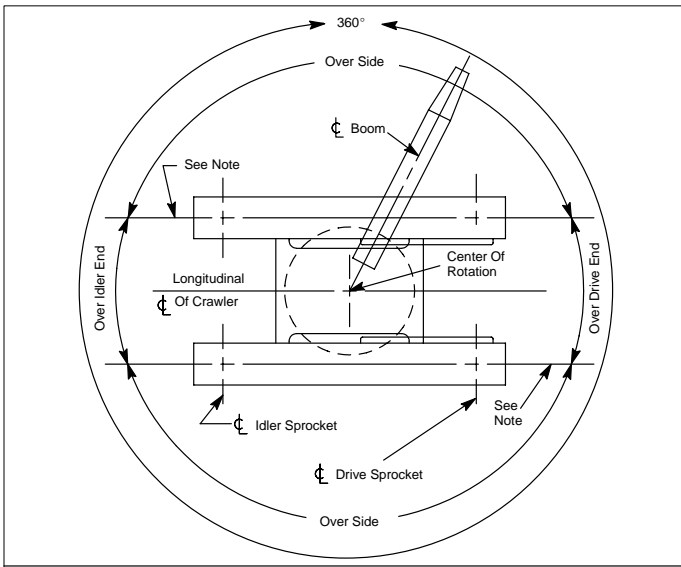
*The attachment must be stored in one of the following positions:

- Lay the luffing boom and luffing jib on the ground.
- Tie off luffing boom tip to an immovable object. For details and information on the tie-off procedure, see the Operator's Manual.

JOB SITE TRAVEL RESTRICTIONS

- All capacities listed in this Crane Rating Manual are static rated capacities. Job site travel with a load is prohibited.
- Travel with the luffing jib folded under and latched to the luffing boom is permitted only when the luffing boom is at a 75 degree luffing boom angle.
- Travel is prohibited at luffing boom angles greater than 85 degrees.
- If a luffing attachment combination has a capacity listed for a given radius and the luffing boom angle is less than 85 degrees, travel without load is permitted in that configuration.
- With the luffing boom set at 75 degrees, travel without load is permitted at the negative value of any luffing jib angle that has a rated capacity on the 360° chart for a 75° luffing boom angle.
- Travel is restricted to smooth, level, and solid surfaces.
- The upper must be positioned straight over the end of the crawler lower.
- The swing lock must be engaged.
- The wind speed must be less than 15 mph.
- See Operator's Manual for more information.

WORKING AREAS



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

AUXILIARY SHEAVES NOTES

1. Capacities are for a LS-238H Crawler Crane with ABC (69,000 lb) upper counterweight and 20K (20,000 lb) lower counterweight.
2. Capacities are for Crawler Crane working areas, as described on the Working Areas Chart found in the General Information section of this Crane Rating Manual and are based on the crane sitting level on a firm supporting surface.
3. Capacities are limited to an LBCE 62" x 70" tubular boom with a luffing boom top.
4. Four parts of line are required for maximum lift.
5. Capacities are for luffing boom lengths between 85 feet and 165 feet.
6. The least stable condition is over the end with **unblocked** idlers and sprockets.
7. All capacities are in pounds and are not more than 75% of the tipping loads. Those capacities followed by an asterisk are governed by factors other than those which would cause a tipping condition.
8. The appropriate deduction must be taken if any luffing jib or fixed jib components are installed. See the Capacity Deductions for Auxiliary Load Handling Equipment for more information.
9. If the luffing jib is installed, the minimum luffing boom angle is 65 degrees. The maximum boom angle is 80 degrees when using the auxiliary sheaves.
10. The luffing jib should be set to a 15 degree offset when using the auxiliary sheaves.
11. See Operator's Manual for more information.

ROLLED OUT LIFTOFF CAPABILITIES

Luffing Boom Length		Luffing Jib Length		Luffing Jib + Fixed Jib Length	
ft	m	ft	m	ft	m
85	25.9	80-160	24.4-48.8	80+30 - 150+30	24.4+9.1-45.7+9.1
95	29.0	80-160	24.4-48.8	80+30 - 150+30	24.4+9.1-45.7+9.1
105	32.0	80-160	24.4-48.8	80+30 - 150+30	24.4+9.1-45.7+9.1
115	35.1	80-160	24.4-48.8	80+30 - 150+30	24.4+9.1-45.7+9.1
125	38.1	80-160	24.4-48.8	80+30 - 150+30	24.4+9.1-45.7+9.1
*135	41.1	80-160	24.4-48.8	80+30 - 150+30	24.4+9.1-45.7+9.1
*145	44.2	80-160	24.4-48.8	80+30 - 150+30	24.4+9.1-45.7+9.1
*155	47.2	80-160	24.4-48.8	80+30 - 150+30	24.4+9.1-45.7+9.1
*165	50.3	110-160	33.5-48.8	110+30 - 150+30	33.5+9.1-45.7+9.1

ROLLED UNDER LIFTOFF CAPABILITIES				LATCHED UNDER LIFTOFF CAPABILITIES			
Luffing Boom Length		Luffing Jib Length		Luffing Boom Length		Luffing Jib Length	
ft	m	ft	m	ft	m	ft	m
95	29.0	80	24.4	95	29.0	80	24.4
105	32.0	80-90	24.4-27.4	105	32.0	80-90	24.4-27.4
115	35.1	80-100	24.4-30.5	115	35.1	80-100	24.4-30.5
125	38.1	80-110	24.4-33.5	125	38.1	80-110	24.4-33.5
*135	41.1	80-120	24.4-36.6	*135	41.1	80-120	24.4-36.6
*145	44.2	80-130	24.4-39.6	*145	44.2	80-130	24.4-39.6
*155	47.2	80-140	24.4-42.7	*155	47.2	80-140	24.4-42.7
*165	50.3	110-150	33.5-45.7				

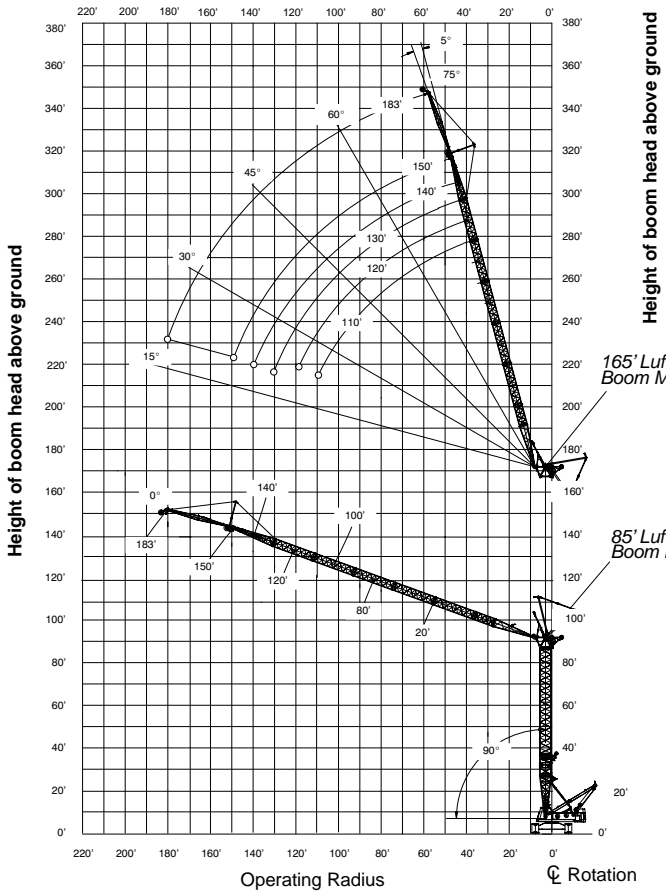
Notes:

1. Erection must be done over the end of the lower, with the idlers / sprockets blocked with 5/8" steel plate.
2. Counterweights: "ABC" 69,000 lb Upper + 20,000 lb Lower.

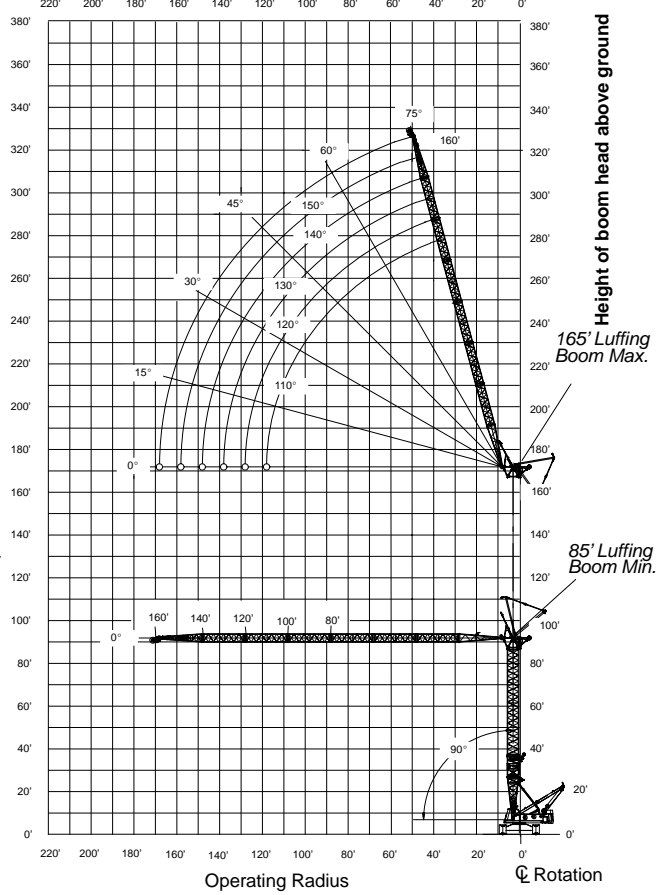
CRANE ASSEMBLY COMPONENT WEIGHTS

Component	Weight	
	lbs	kg
1. 20 ft Luffing Boom Base Section (w/o 3rd Drum)	3,780	1 715
• 3rd Drum (w/o Rope)	1,910	866
• 3rd Drum Rope (745 Ft. of 7/8" type "RB")	1,120	508
2. 10 ft Self Assembly Section	3,160	1 433
3. Luffing Boom Extensions (w/o Luffing Jib Bail Guide Rails and Pendants)	62 lbs/ft	92 kg/m
• Luffing Jib Bail Guide Rails (50' Required)	25 lbs/ft	37 kg/m
• Luffing Boom Pendants	13 lbs/ft	19 kg/m
4. Luffing Jib Bail	1,010	458
5. Luffing Jib Bridle	460	209
6. Luffing Boom Cap	2,820	1 279
7. Pendant Deflector	500	227
8. Luffing Jib Backstops	750	340
9. Fan Post Assembly	2,530	1 148
10. Luffing Jib Base	1,510	685
11. Luffing Jib Extensions (w/o Pendants)	44 lbs/ft	65 kg/m
• Luffing Jib Pendants	11 lbs/ft.	17 kg/m
12. Luffing Jib Peak (w/2 Sheaves)	2800	1 270
13. 30' Fixed Jib Assembly	1,740	789
14. Upper Counterweights		
• CTWT. "A"	23,000	10 433
• CTWT. "B"	19,330	8 768
• CTWT. "C"	26,670	12 098
• CTWT. "AB"	42,330	19 201
• CTWT. "ABC"	69,000	31 298
15. Lower Counterweights (Each)	10,000	4 536
16. Counterweight Assist Frame	3,400	1 542
17. Side Frames (Each)	35,000	15 876
18. Carbody Jack Cylinders (Each)	560	254

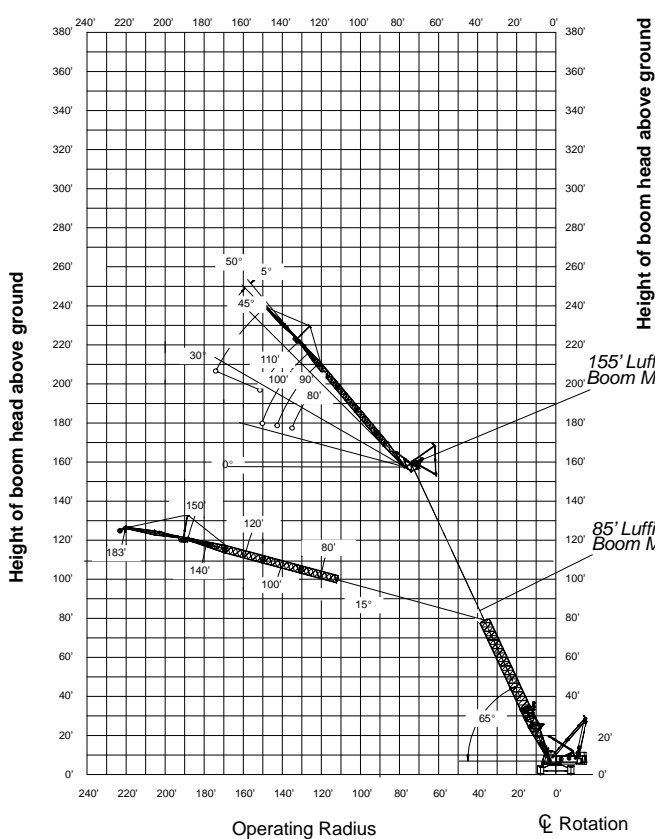
90° LUFFING BOOM ANGLE – 360° LUFFING JIB + FIXED JIB



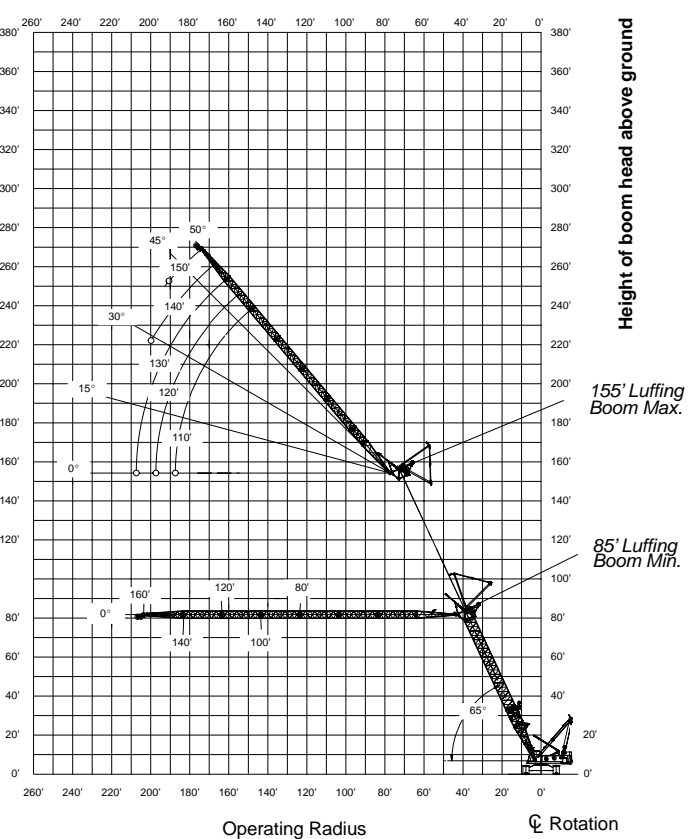
90° LUFFING BOOM ANGLE – 360° LUFFING JIB



65° LUFFING BOOM ANGLE – 360° LUFFING JIB + FIXED JIB

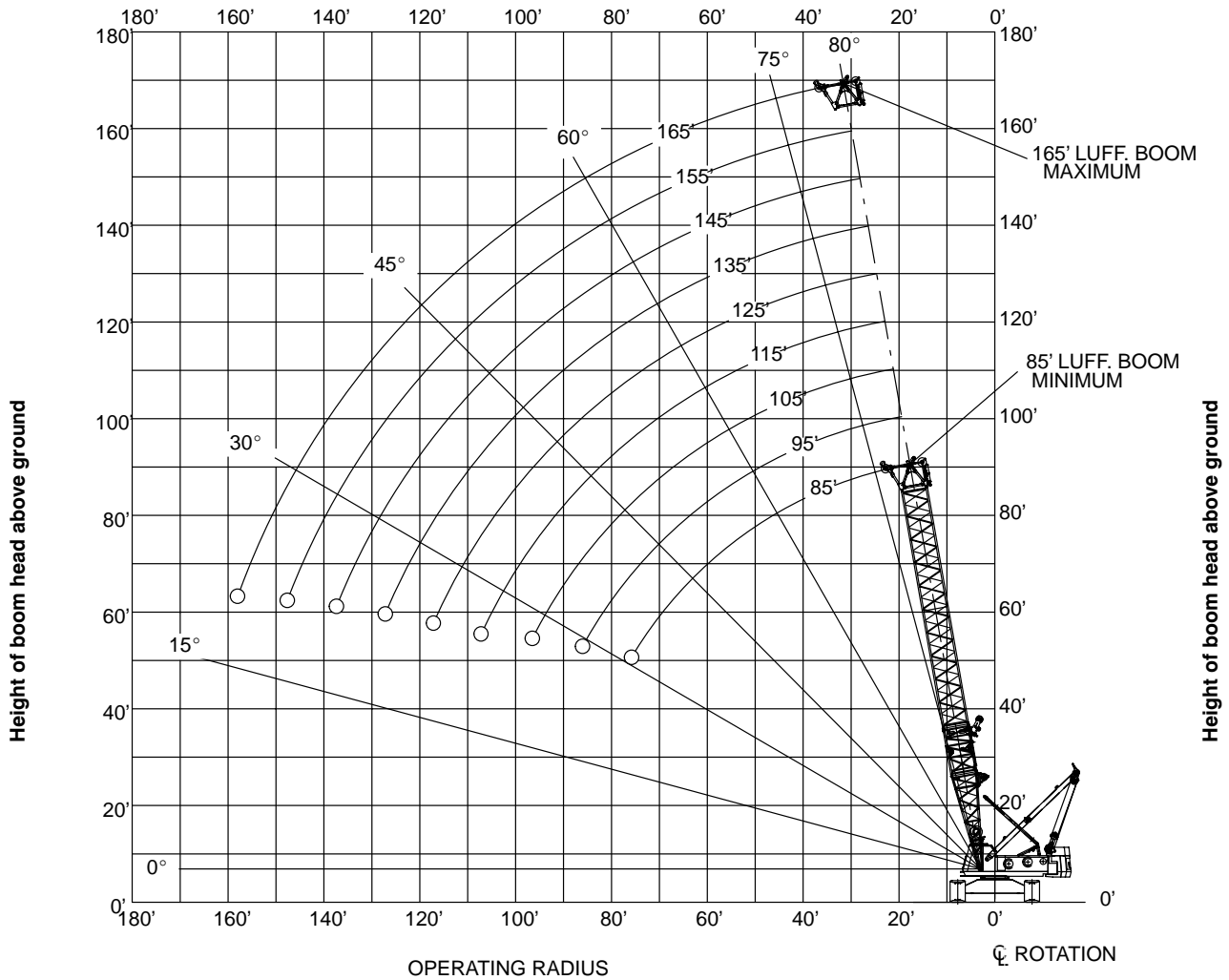


65° LUFFING BOOM ANGLE – 360° LUFFING JIB



Note: Boom and jib geometry shown are 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.

AUXILIARY SHEAVES – 360°



Note: Boom and jib geometry shown are 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.

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LS-238H 360 Degree Capacities											LS-238H 360 Degree Capacities																	
62" x 70" Luffing Boom, 44" x 54" Luffing Jib, ABC + 20K Counterweight											62" x 70" Luffing Boom, 44" x 54" Luffing Jib, ABC + 20K Counterweight																	
Luffing Boom Length (ft)	Luffing Jib Length (ft)	Load Radius (ft)	Luffing Boom Angle									Luffing Boom Length (ft)	Luffing Jib Length (ft)	Load Radius (ft)	Luffing Boom Angle													
			90°	85°	80°	75°	70°	65°	90°	85°	80°				75°	70°	65°											
			Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)				Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)										
85	140	100	17.3	*	17.7	*	17.7		16.7						85	160	190							5.7		5.2		4.7
85	140	110	16.3	*	16.4		15.5		14.6						85	160	197									4.8		
85	140	117									12.5				85	160	200											4.2
85	140	120	15.4		14.6		13.7		12.9		12.1				85	160	204											4.0
85	140	130	13.3	*	13.0		12.2		11.5		10.7																	
85	140	133												9.6	105	80	29	52.2	*									
85	140	140	10.9	*	11.7		10.9		10.2		9.6			8.9	105	80	30	51.1	*									
85	140	148	6.3	*											105	80	35	47.0	*									
85	140	150			10.5		9.8		9.2		8.6			7.9	105	80	40	42.8	*									
85	140	155			7.5	*									105	80	45			46.0	*							
85	140	160					8.9		8.3		7.7			7.1	105	80	50	37.8	*	41.5	*							
85	140	163					8.6								105	80	60	34.5	*	36.4	*	35.4						
85	140	170						7.5		6.9		6.4			105	80	70	32.6		30.9		29.2						
85	140	177									6.4				105	80	75					25.1						
85	140	180										5.7			105	80	80	26.6	*	26.1		24.6		23.2				
85	140	184										5.5			105	80	88	16.3	*									
															105	80	90											
85	160	49	26.0	*											105	80	97			18.6	*							
85	160	50	25.9	*											105	80	100					18.6		17.5		16.4		
85	160	60	22.2	*											105	80	103										14.6	
85	160	70	19.8	*	21.2	*									105	80	106					17.1						
85	160	80	17.9	*	19.0	*									105	80	110							15.4		14.4		13.5
85	160	90	16.3	*	17.2	*	18.2	*							105	80	115							14.4				
85	160	100	15.1	*	15.6	*	16.5	*							105	80	120									12.8		11.9
85	160	110	14.0	*	14.4	*	15.0		14.1						105	80	124									12.2		
85	160	120	13.2	*	13.5	*	13.3		12.4						105	80	130											10.6
85	160	129									10.4				105	80	132											10.4
85	160	130	12.6	*	12.6		11.8		11.0		10.2																	
85	160	140	11.7	*	11.2		10.5		9.8		9.1				105	100	34	42.9	*									
85	160	146										7.8			105	100	35	42.2	*									
85	160	150	9.9	*	10.1		9.4		8.7		8.1				105	100	40	39.2	*									
85	160	160	8.1	*	9.1		8.5		7.8		7.2				105	100	50	33.9	*									
85	160	168	4.4	*											105	100	51			37.2	*							
85	160	170			8.0	*	7.6		7.0		6.5				105	100	60	30.3	*	33.0	*							
85	160	175			5.5	*									105	100	68					29.4						
85	160	180					6.9		6.3		5.8				105	100	70	27.7	*	29.3	*	28.6						
85	160	183					6.6	*							105	100	80	25.9	*	25.7		24.1						

LS-238H 360 Degree Capacities											LS-238H 360 Degree Capacities										
62" x 70" Luffing Boom, 44" x 54" Luffing Jib, ABC + 20K Counterweight											62" x 70" Luffing Boom, 44" x 54" Luffing Jib, ABC + 20K Counterweight										
Luffing Boom Length (ft)	Luffing Jib Length (ft)	Load Radius (ft)	Luffing Boom Angle						Luffing Boom Length (ft)	Luffing Jib Length (ft)	Load Radius (ft)	Luffing Boom Angle									
			90°	85°	80°	75°	70°	65°				90°	85°	80°	75°	70°	65°				
			Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)				Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)			
105	100	85					21.0				105	120	150					9.2	8.4	7.7	
105	100	90	23.4		22.2		20.9	19.6			105	120	155					8.7			
105	100	100	19.8	*	19.4		18.2	17.0			105	120	160						7.6	6.9	
105	100	101						15.6			105	120	164						7.3		
105	100	108	12.2	*							105	120	170							6.2	
105	100	110			17.1		16.0	15.0	13.9		105	120	172							6.0	
105	100	116								11.9											
105	100	117			14.0	*					105	140	44	30.0	*						
105	100	120					14.2	13.3	12.3	11.4	105	140	50	27.8	*						
105	100	126					13.2				105	140	60	24.5	*						
105	100	130						11.9	11.0	10.2	105	140	65			25.4	*				
105	100	135						11.2			105	140	70	21.3	*	23.9	*				
105	100	140							9.9	9.1	105	140	80	19.5	*	20.9	*				
105	100	144							9.4		105	140	85					21.4			
105	100	150								8.2	105	140	90	18.0	*	18.9	*	19.9			
105	100	152								8.0	105	140	100	16.8	*	17.5	*	17.3			
											105	140	105								
105	120	39	36.0	*							105	140	110	15.9	*	16.3		15.1	14.0		
105	120	40	35.6	*							105	140	120	15.3	*	14.4		13.4	12.3		
105	120	50	30.8	*							105	140	124							10.8	
105	120	58			30.8	*					105	140	130	13.3	*	12.9		11.9	10.9	10.0	
105	120	60	27.2	*	30.1	*					105	140	140	10.9	*	11.5		10.6	9.8	8.9	
105	120	70	24.5	*	26.5	*					105	140	142							7.9	
105	120	77					24.8				105	140	148	6.7	*						
105	120	80	22.0	*	23.8	*	23.6				105	140	150			10.4		9.6	8.7	7.9	
105	120	90	20.6	*	21.3	*	20.4				105	140	157			8.0	*				
105	120	95						17.7			105	140	160					8.6	7.9	7.1	
105	120	100	19.7	*	19.0		17.7	16.5			105	140	166					8.1			
105	120	110	17.8		16.7		15.6	14.5			105	140	170						7.1	6.4	
105	120	112							13.0		105	140	175						6.7		
105	120	120	14.6	*	14.8		13.8	12.8	11.8		105	140	180							5.7	
105	120	128	9.1	*							105	140	184							5.5	
105	120	129								9.7	105	140	190							4.6	
105	120	130			13.3		12.3	11.4	10.5	9.6	105	140	192							4.5	
105	120	137			10.6	*															
105	120	140					11.1	10.2	9.4	8.6	105	160	49	24.8	*						
105	120	146					10.3				105	160	50	24.6	*						

LS-238H 360 Degree Capacities													LS-238H 360 Degree Capacities													
62" x 70" Luffing Boom, 44" x 54" Luffing Jib, ABC + 20K Counterweight													62" x 70" Luffing Boom, 44" x 54" Luffing Jib, ABC + 20K Counterweight													
Luffing Boom Length (ft)	Luffing Jib Length (ft)	Load Radius (ft)	Luffing Boom Angle						Luffing Boom Length (ft)	Luffing Jib Length (ft)	Load Radius (ft)	Luffing Boom Angle														
			90°	85°	80°	75°	70°	65°				90°	85°	80°	75°	70°	65°									
			Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)				Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)								
105	160	60	21.3	*							125	80	80	26.6	*	25.9		24.1		22.4						
105	160	70	19.0	*							125	80	88	16.8	*											
105	160	72			20.4	*					125	80	90			22.4		20.9		19.3						
105	160	80	17.2	*	18.7	*					125	80	96										16.2			
105	160	90	15.8	*	16.9	*					125	80	99			19.1	*									
105	160	94					17.6	*			125	80	100					18.2		16.8		15.5				
105	160	100	14.6	*	15.3	*	16.5	*			125	80	110					16.0		14.8		13.6				
105	160	110	13.6	*	14.2	*	14.7				125	80	112										12.1			
105	160	115						12.6			125	80	120							13.1		12.1		11.0		
105	160	120	12.8	*	13.2	*	12.9		11.8		125	80	130									10.7		9.8		
105	160	130	12.2	*	12.4		11.4		10.5		125	80	131									10.6				
105	160	135							8.9		125	80	140											8.7		
105	160	140	11.7	*	11.1		10.2		9.3	8.4																
105	160	150	9.8	*	10.0		9.1		8.3	7.4		125	100	34	41.0	*										
105	160	155								6.3		125	100	35	40.4	*										
105	160	160	8.1	*	9.0		8.2		7.4	6.6	5.9		125	100	40	37.7	*									
105	160	168	4.7	*								125	100	50	32.8	*										
105	160	170			8.1		7.4		6.6	5.9	5.2		125	100	53			35.9	*							
105	160	177			5.9	*						125	100	60	29.4	*	32.7	*								
105	160	180					6.7		6.0	5.3	4.6		125	100	70	26.9	*	29.0	*							
105	160	186					6.2					125	100	72						27.0						
105	160	190						5.4		4.7	4.1		125	100	80	25.2	*	25.4		23.5						
105	160	195						5.1				125	100	90	23.5		22.0		20.4		18.7					
105	160	200							4.2		3.6		125	100	100	19.7	*	19.2		17.8		16.3				
105	160	204							4.0			125	100	108	12.6	*						13.4				
105	160	210								3.2		125	100	110			16.9		15.6		14.3		13.1			
105	160	212								3.1		125	100	119			14.4	*								
												125	100	120					13.9		12.7		11.5			
125	80	29	50.1	*								125	100	125										9.8		
125	80	30	49.1	*								125	100	130					12.4		11.3		10.3		9.2	
125	80	35	44.5	*								125	100	140						10.1		9.2		8.2		
125	80	40	41.4	*								125	100	150								8.2		7.4		
125	80	46			43.7	*						125	100	151								8.2				
125	80	50	36.7	*	41.3	*						125	100	160										6.6		
125	80	60	33.6	*	36.1	*																				
125	80	64					32.2					125	120	39	34.3	*										
125	80	70	31.9	*	30.6		28.5					125	120	40	33.9	*										

LS-238H 360 Degree Capacities													LS-238H 360 Degree Capacities												
62" x 70" Luffing Boom, 44" x 54" Luffing Jib, ABC + 20K Counterweight													62" x 70" Luffing Boom, 44" x 54" Luffing Jib, ABC + 20K Counterweight												
Luffing Boom Length (ft)	Luffing Jib Length (ft)	Load Radius (ft)	Luffing Boom Angle									Luffing Boom Length (ft)	Luffing Jib Length (ft)	Load Radius (ft)	Luffing Boom Angle										
			90°	85°	80°	75°	70°	65°	90°	85°	80°				75°	70°	65°								
			Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)				Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)							
125	120	50	29.6	*									125	140	160				8.3		7.4		6.5		5.6
125	120	60	26.1	*	29.5	*							125	140	170				7.5		6.7		5.8		5.0
125	120	70	23.7	*	26.1	*							125	140	180						6.0		5.2		4.4
125	120	80	21.3	*	23.4	*	22.8						125	140	190								4.6		3.9
125	120	90	20.0	*	20.9	*	19.9						125	140	191								4.6		
125	120	100	19.1	*	18.8		17.3	15.7					125	140	200										3.5
125	120	110	17.9		16.5		15.2	13.8																	
125	120	119							11.1				125	160	49	23.2	*								
125	120	120	14.6	*	14.7		13.4	12.2	11.0				125	160	50	23.2	*								
125	120	128	9.4	*									125	160	60	20.2	*								
125	120	130			13.1		12.0	10.9	9.8				125	160	70	18.2	*								
125	120	138								7.9			125	160	74			19.5	*						
125	120	139			11.0	*							125	160	80	16.4	*	18.2	*						
125	120	140					10.7	9.7	8.7	7.7			125	160	90	15.1	*	16.4	*						
125	120	150					9.7	8.7	7.8	6.9			125	160	97					16.9	*				
125	120	160						7.8	7.0	6.1			125	160	100	13.9	*	14.9	*	16.3					
125	120	170							6.3	5.5			125	160	110	13.0	*	13.8	*	14.2					
125	120	171							6.2				125	160	120	12.3	*	12.8	*	12.5		11.1			
125	120	180								4.9			125	160	130	11.7	*	12.0	*	11.1		9.9			
													125	160	140	11.4	*	11.0		9.8		8.7			
125	140	44	28.4	*									125	160	142									7.4	
125	140	50	26.4	*									125	160	150	9.8	*	9.8		8.8		7.8		6.8	
125	140	60	23.4	*									125	160	160	8.0	*	8.9		7.9		6.9		6.0	
125	140	67			24.3	*							125	160	163										4.9
125	140	70	20.5	*	23.4	*							125	160	168	5.0	*								
125	140	80	18.7	*	20.5	*							125	160	170			8.0		7.1		6.2		5.3	4.4
125	140	89					19.7						125	160	179			6.1	*						
125	140	90	17.3	*	18.5	*	19.4						125	160	180					6.4		5.5		4.7	3.9
125	140	100	16.2	*	17.1	*	16.8						125	160	190					5.8		5.0		4.2	3.4
125	140	110	15.4	*	15.9	*	14.7	13.3					125	160	200							4.4		3.7	3.0
125	140	120	14.8	*	14.3		13.0	11.7					125	160	210									3.3	2.6
125	140	130	13.2	*	12.7		11.5	10.4					125	160	211									3.2	
125	140	131							9.1				125	160	220										2.2
125	140	140	10.9	*	11.4		10.3	9.2	8.2																
125	140	148	7.0	*									145	80	29	43.8	*								
125	140	150			10.3		9.2	8.3	7.3	6.3			145	80	30	43.3	*								
125	140	159			8.3	*							145	80	35	41.3	*								

LS-238H 360 Degree Capacities													LS-238H 360 Degree Capacities												
62" x 70" Luffing Boom, 44" x 54" Luffing Jib, ABC + 20K Counterweight													62" x 70" Luffing Boom, 44" x 54" Luffing Jib, ABC + 20K Counterweight												
Luffing Boom Length (ft)	Luffing Jib Length (ft)	Load Radius (ft)	Luffing Boom Angle						Luffing Boom Length (ft)	Luffing Jib Length (ft)	Load Radius (ft)	Luffing Boom Angle													
			90°	85°	80°	75°	70°	65°				90°	85°	80°	75°	70°	65°								
			Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)				Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)	Capacity (kips)							
145	80	40	39.4	*						145	100	120			14.9	*	13.5		12.1		10.7				
145	80	48			39.6	*				145	100	121			14.6	*									
145	80	50	35.2	*	38.8	*				145	100	130					12.0		10.7		9.5				
145	80	60	31.8	*	34.8	*				145	100	133					11.6					7.9			
145	80	67					29.4			145	100	140							9.6		8.5	7.3			
145	80	70	28.9	*	30.3		27.8			145	100	145							9.0						
145	80	80	26.5	*	25.6		23.4			145	100	150									7.6	6.5			
145	80	85						19.7		145	100	157									7.0				
145	80	88	17.1	*						145	100	160										5.8			
145	80	90			22.2		20.3	18.5		145	100	169										5.3			
145	80	100			19.4		17.7	16.1																	
145	80	101			19.1					145	120	39	31.1	*											
145	80	103							13.8	145	120	40	30.9	*											
145	80	110				15.6	14.1	12.7		145	120	50	27.9	*											
145	80	113				15.0				145	120	60	24.9	*											
145	80	120					12.5	11.2	9.9	145	120	62			27.2	*									
145	80	125					11.7			145	120	70	22.1	*	25.2	*									
145	80	130						10.0	8.8	145	120	80	20.5	*	22.2	*									
145	80	137						9.2		145	120	84					21.2								
145	80	140							7.9	145	120	90	19.2	*	20.4	*	19.3								
145	80	149							7.1	145	120	100	17.9	*	18.6		16.8								
										145	120	105													
145	100	34	37.0	*						145	120	110	16.7	*	16.4		14.7		13.1						
145	100	35	36.7	*						145	120	120	14.6	*	14.5		13.0		11.5						
145	100	40	35.1	*						145	120	126									9.3				
145	100	50	31.3	*						145	120	128	9.6	*											
145	100	55			32.9	*				145	120	130			13.0		11.6		10.3		8.9				
145	100	60	28.2	*	31.3	*				145	120	140			11.6		10.4		9.1		7.9				
145	100	70	25.9	*	28.3	*				145	120	141			11.2	*									
145	100	75					24.7			145	120	146										6.3			
145	100	80	23.7	*	25.1		22.9			145	120	150					9.3		8.2		7.1	6.0			
145	100	90	21.7	*	21.8		19.8			145	120	153					9.0								
145	100	95						16.5		145	120	160							7.4		6.3	5.3			
145	100	100	19.7	*	19.0		17.3	15.5		145	120	165							6.9						
145	100	108	12.8	*						145	120	170									5.7	4.7			
145	100	110			16.8		15.2	13.6		145	120	177									5.2				
145	100	115							11.4	145	120	180										4.2			

