

LS-138H II

HYLAB Series

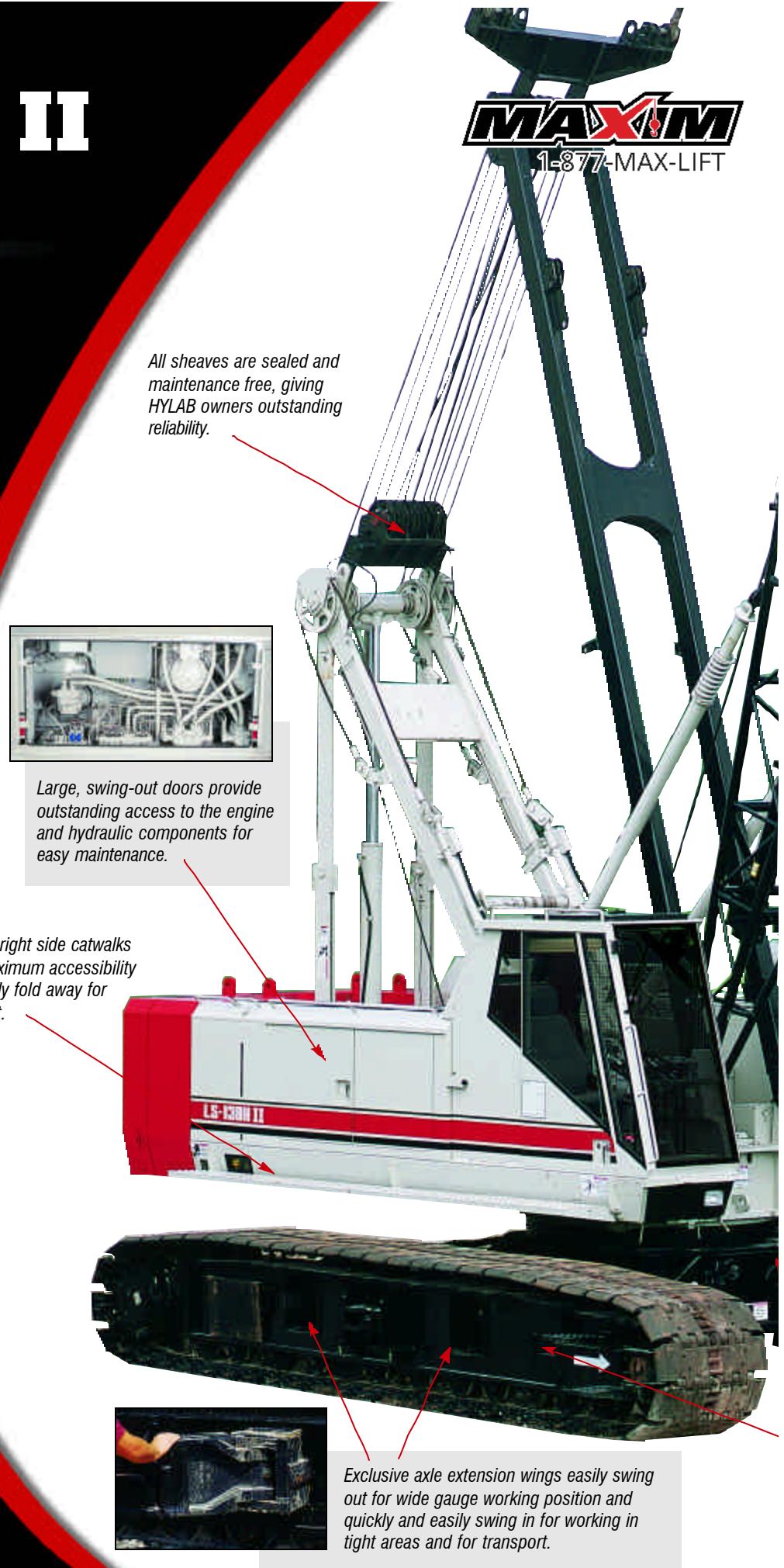


Lattice Boom Crawler Crane 80-ton (72.6 mt)

- Bullet-proof reliability
- Simple mobility
- Super versatility
- Big capacities
- Pin-point control

Since its launch more than a decade ago, Link-Belt's Hydraulic Lattice Boom (HYLAB) crane series is the most successful crawler crane product line ever built. HYLAB crawler cranes are the market leaders because of proven, customer driven design features.

Joining the HYLAB tradition of excellence is the LS-138H II, which features the innovative Quick Draw™ system, greater lift capacities, work application flexibility and a counterweight removal system which takes transportability and ease of operation to a new level.



All sheaves are sealed and maintenance free, giving HYLAB owners outstanding reliability.



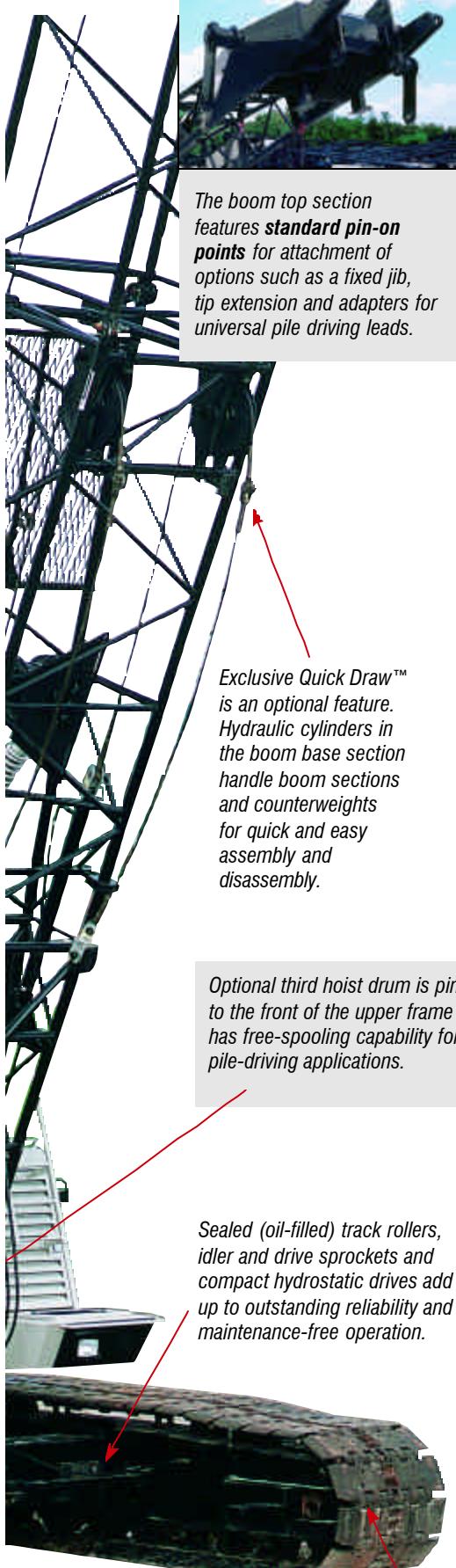
Large, swing-out doors provide outstanding access to the engine and hydraulic components for easy maintenance.

Left and right side catwalks offer maximum accessibility and easily fold away for transport.



Exclusive axle extension wings easily swing out for wide gauge working position and quickly and easily swing in for working in tight areas and for transport.

Link-Belt



The boom top section features **standard pin-on points** for attachment of options such as a fixed jib, tip extension and adapters for universal pile driving leads.

Exclusive Quick Draw™ is an optional feature. Hydraulic cylinders in the boom base section handle boom sections and counterweights for quick and easy assembly and disassembly.

Optional third hoist drum is pinned to the front of the upper frame and has free-spooling capability for pile-driving applications.

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

The lower structure is made up of an all-welded, high strength, alloy steel carbody and precision machined treadmembers.

Self-cleaning 36" (0.91 m) track shoes form an extra wide gauge of 14' (4.27 m). Lower structure ground clearance is greater than 15" (0.38 m).

Enjoy the versatility of both tube and angle boom

Customize your crane and get the best of both worlds!

Ideally suited for lift crane work and combination lift/duty cycle requirements, the LS-138H II, with **tubular boom**, offers greater lifting capacities and the longest boom and boom/jib combination in its class.

The **optional 40'-150' (12.19 - 45.72 m) angle boom**, the most rugged and robust angle boom available, is a top notch performer in dragline, clamshell, pile driving and other severe duty cycle applications. Outfitting the angle boom with the optional live mast makes for fast assembly and disassembly.



Head machinery includes standard lift crane sheaves with optional wide mouth sheaves available for duty cycle.

The boom top section features **standard pin-on points** for an optional five-foot tip extension in place of jib for providing clearance between working hoist lines.

The **#1 pile driving crane in America** is now even better with standard pile driving lead connection points on the boom top section as well as an optional pile driving lead adapter.



Link-Belt crawler crane owners praise HYLAB's low operating cost ... the best in its class.

LS-138H II

HYLAB Series

Lattice Boom Crawler Crane 80-ton (72.6 mt)

- 80-ton (72.6 mt) at a 10' radius
- 204' (62.18 m) maximum tip height
- 242' (73.76 m) maximum attachment (180' (54.86 m) plus 60' (18.29 m) boom plus jib)
- Transport weight is less than 90,000 lbs (40 824 mt) with boom base, treadmembers, live mast and hoist ropes
- Lightweight modules for ease of transportation
- Two-piece, 50,500 lbs (22 906 kg) counterweight combination
- Counterweight removal system with remote control for improved self-assembly
- Compact travel drives to improve serviceability



Link-Belt
CRAWLER CRANES

Strong power plant and reliable hydraulics

Powered by the **biggest and most quiet engine in its class**, the Isuzu engine is fuel efficient and has proven to be virtually 100% reliable. It has a high cooling capacity and provides **high line speeds at higher line pulls**.

The HYLAB Series state-of-the-art variable displacement hydraulic power system has earned a job-proven reputation of **bullet-proof reliability**. Ask any owner.

The hoist drums and boom hoist drum are hydraulically-powered and fully independent. The hoist drums feature power up/down, mechanical drum pawls, grooved laggings and drum rotation indicators.

Optional third drum, front- or rear-mounted, is available with controlled free-spooling option, for pile-driving requirements.

A state-of-the-art hydraulic system with counterbalance valves provides positive, smooth and precise load control.

The LS-138H II has a "**Fine Inching**" control mode for super precise control of load lowering, hoisting, boom hoist and travel.

This hydraulic hoist system features **free-fall control** operation or **automatic brake mode (power up/down)** for fast, efficient and safe operation.

The hydraulically-powered **free swing** provides smooth rotation, 360° fingertip-applied swing brake, two position house lock and an audio/visual swing alarm.



Comfort and control at your fingertips

The HYLAB crane operations control center is ergonomically designed for maximum operating comfort and control with these standard features:

- Armchair mounted, pilot-operated hydraulic controls (swing, load and boom hoist) are designed to provide outstanding operator comfort.
- The location of the travel levers are offset, increasing the operator's overall visibility.
- Ergonomically designed cockpit-style operator's cab provides exceptional visibility.

Operator's cab console features include:

- Free-fall mode indicator
- Load 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

Other in-cab features, controls and monitors include:

- Drum rotation indicators
- Service monitoring system
- Six-way adjustable seat
- Tinted and tempered safety glass
- Sliding entry door, front window and side window
- Swing up roof window with wiper
- Door and window locks
- Heater and defroster with circulating fan
- Sun visor and dome light
- Dry chemical fire extinguisher
- Hand and foot throttle
- Bubble-type level
- Back-lit automotive-style gauges



Unbeatable transportability

3 loads & GO!

The LS-138H II easily transports in three loads, each less than 12' (3.66 m) in overall width. With its lightweight modular components, no other crane is faster, easier or more efficient to transport.



Load #1 - under 90,000 lbs (40 823 kg)



Load #2 - under 36,000 lbs (16 329 kg)



Load #3 - under 33,000 lbs (14 968 kg)

Fast assembly and disassembly

Link-Belt's optional **Quick Draw™** feature dramatically simplifies self-assembly, disassembly and load-out. Hydraulic cylinders in the boom base section pick up and handle the boom sections and counterweights.

The exclusive, **all-hydraulic counter-weight** removal system easily handles both counterweights (25,250 lbs (11 453 kg) each).

On the new LS-138H II, you can remove both counterweights, retract the tread-members, store the catwalks, pin the live mast and gantry, and be ready to load out. Reverse the process and be ready to stab boom in 13 minutes.



The LS-138H II is big, fast and strong with greater reach and capacities

The best lattice boom crawler crane in its class is even better. It can **outpick the competition** virtually everywhere on the chart. The LS-138H II also has **blocked over-end capacities**, which challenge many 100-ton rated capacity cranes.

The LS-138H II **meets OSHA requirements** for anti-two block and automatic brake systems on cranes used to handle personnel.

Outreaching the nearest competitor, the LS-138H II boasts a **maximum tip height of 204' (62.18 m)** and 242' (73.76 m) with the boom and jib used in combination.

With your Link-Belt distributor, your crane investment is always protected.

When you invest in a Link-Belt crane, you also invest in a 125-year legacy of outstanding customer support. With the world-wide Link-Belt distribution network, you are

never far from quality Link-Belt service or parts professionals. The value of a machine starts with state-of-the-art design and manufacturing, but excellent product support determines its long term value. And, thinking to the future, it's good to know that Link-Belt cranes traditionally command some of the highest resale prices in our industry.

Link-NetPro, Link-Belt's new Internet portal, gives your distributor instant access to vital information for sales, service, parts and warranty information via the web.

All technical publications, including parts pages, service manuals, and operator manuals for virtually every Link-Belt working crane are available on-line to your distributor through Link-NetPro. More than 18 months in the creation and testing, this crane industry first is a gigantic step forward in better serving distributors' needs for instant, accurate information for better problem resolution.

At Link-Belt, we have the right people, ready to deliver the right part, at the right time.

No one knows your Link-Belt equipment better than our trained Technical Specialists and no one provides faster, more efficient customer service than our customer service representatives.



And eParts, our online computer system, allows distributors worldwide to order Genuine Link-Belt Parts 24 hours a day, 7 days a week. An integral part of Link-Belt's product support is the maintenance of an extensive and well planned parts inventory in our dedicated 72,000 sq. ft. Parts Distribution Center. All parts in stock ship the same business day.

A commitment to highly trained, experienced service personnel is demonstrated throughout the lifetime of your Link-Belt crane.

Through the Master Technician Training Program, technical schools are specifically designed to establish proficiency in all phases of machine diagnostics and repair. They are held throughout the year at our Service Training Center for both distributor technicians and customers. These highly trained and motivated field service personnel are prepared to respond to your downtime and get you going...FAST. Supporting these distributor personnel are experienced factory advisors with comprehensive machine records, CAD computer terminals, and technical publication libraries on the web to isolate the facts and quickly resolve crane service issues.



Link-Belt Construction Equipment Company is a leader in the design, manufacture and sales of telescopic and lattice boom cranes, with headquarters in Lexington, Kentucky.

In the recent decade, a dynamic and highly-focused Link-Belt has emerged as a market leader in crane design and product quality standards by focusing on continuous improvement and employee empowerment.

Link-Belt's core production base and center for worldwide operations is its 500,000 sq. ft. manufacturing facility in Lexington, Kentucky. With major expansions over the last ten years, along with continuous improvement philosophies, this facility has emerged as the most modern crane facility in North America.

Link-Belt

WE ARE YOUR PARTNER IN EXCELLENCE

Lexington, Kentucky
www.linkbelt.com

® Link-Belt is a registered trademark. Copyright 2001. All rights reserved. We are constantly improving our products and therefore reserve the right to change designs and specifications.

Litho in U.S.A. 2/01 #4255



Lifting Capacities

Lattice Boom Crawler Crane

LS-138H II

80-ton (*72.57 metric ton*)

HYLAB Series

Angle Boom Capacities

40' – 150' (12.19 – 45.72 m)

24' (7.31 m) Live Mast

- Extended/Retracted Side Frames

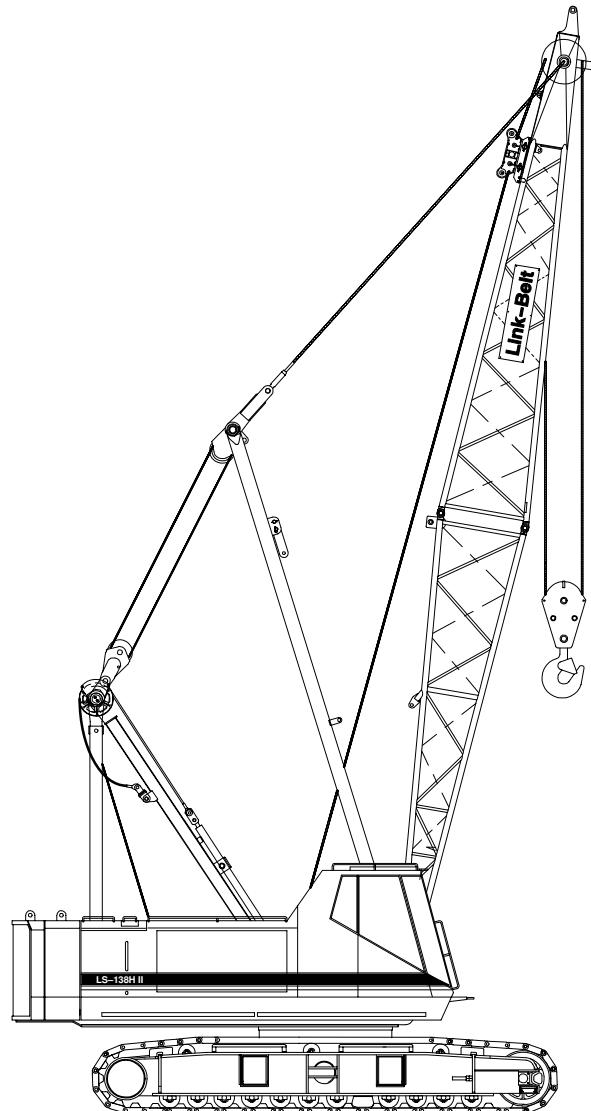
5' (1.52 m) Tip Extension

Duty Cycle Capacities

- 40' – 70' (12.19 – 21.34 m) Angle Boom
- Extended Side Frames
- "A" Counterweight

Angle Boom Capacities

- 40' – 150' (12.19 – 45.72 m) Angular Boom
- 48" (1.22 m) wide x 48" (1.22 m) deep boom
- 20' (6.10 m) Open Throat Top Section
- With or Without 24' (7.31 m) Live Mast
- Extended / Retracted Side Frames
- Over End Blocked Capacities
- "AB", "A", or "0" Counterweight Options
- 20' 2" (6.15 m) Crawler Length



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



WARNING

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

OPERATING INSTRUCTIONS

GENERAL:

1. Rated lifting capacities in pounds as shown on lift charts pertain to this crane as originally manufactured and normally equipped. Modifications to the crane or use of optional equipment other than that specified can result in a reduction of capacity.
 2. Construction equipment can be dangerous if improperly operated or maintained. Operation and maintenance of this crane must be in compliance with the information in the Operator's, Parts, and Safety Manuals supplied with this crane. If these manuals are missing, order replacements through the distributor.
 3. The operator and other personnel associated with this crane shall read and fully understand the latest applicable American National Standards Institute (ANSI) safety standards for cranes.
 4. All capacities listed in this book are in compliance with ASME/ANSI B30.5c-1998, SAE J987-April 1994, and SAE J765-October 1990.
3. For recommended reeving, parts of line, wire rope type, and wire rope inspection, see Wire Rope Capacity chart, Operator's Manual, and Parts Manual.
4. Load ratings in this Crane Rating Manual are based on freely suspended loads and make no allowances for such factors as the effect of the wind, ground conditions, and operating speeds. The operator shall therefore reduce load ratings in order to take these conditions into account.
5. Rated lifting capacities do not account for the effects of wind on a suspended load or boom. Lifting capacities should be considered acceptable for wind speeds less than 20 mph and appropriately reduced for wind speeds greater than 20 mph. Extreme caution should be used when lifting heavy loads or loads with large wind sail area under high wind conditions (over 20 mph).
6. The capacities listed in this Crane Rating Manual are for the machine with or without live mast, with the gantry in the raised position.

LIFT CRANE OPERATION:

1. Capacities shown are in pounds and are not more than 75% of the tipping loads with the crane standing level on firm supporting surface. A deduction must be made from these capacities for weight of hook block, hook ball, sling, grapple, load weighing device (other than those supplied with the crane), etc. When using main hook while jib is attached, reduce capacities by values shown on Capacity Deductions For Lifting Off Main Boom Hook With Jib Installed. When using main hook while 5 ft. tip extension is attached, reduce capacities by values shown on Capacity Deductions For Lifting Off Main Boom Hook With 5 ft. Tip Extension Installed. See Operator's Manual for all limitations when raising or lowering attachment.
2. The crane capacities in the shaded areas are based on structural strength. The crane capacities in the non-shaded areas are based on stability.

7. The least stable rated condition is over the side.
8. Booms should be erected and lowered over the end for maximum stability.
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 this 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 the crane standing level on a firm supporting surface with adequate blocking placed under the tread member sprockets/idlers, to prevent rocking.
2. Do not travel with a load.

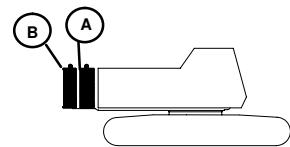
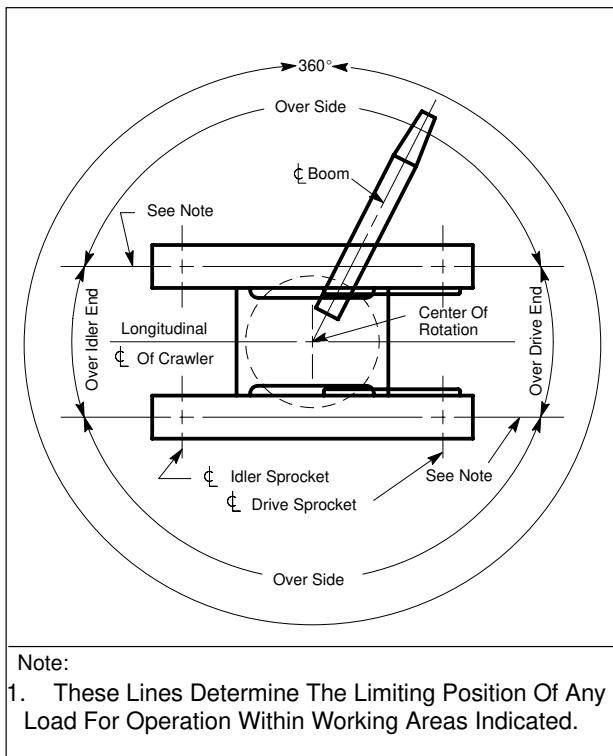
WIRE ROPE CAPACITY

Parts of Line	7/8"		5/8"		Notes
	Type "DB"	Type "RB"	Type "ZB"	Type "WB"	
1	22,700	17,520 *	11,000 **	13,650 *	
2	45,400	35,040	22,000	27,310	
3	68,100	52,560	33,000	40,970	
4	90,800	70,080	44,000	54,620	
5	113,500	87,600	55,000	68,280	
6	136,200	105,120	66,000	81,940	
7	158,900	122,640	77,000	95,600	
8	181,600	140,160	88,000	109,250	
LBCE Type	Description				
DB	6 x 26 (6 x 19 Class) – Warrington Seal – Extra Improved Plow Steel – Pre-formed – Right Lay – Regular Lay – I.W.R.C.				
RB*	19 x 19 Rotation Resistant – Extra Extra Improved Plow Steel – Preformed – Right Lay – Regular Lay. Swaged – S.F. = 5:1				
ZB**	36 x 7 Class – Non-Rotating – Extra Improved Plow Steel – Right Lay – Regular Lay – S.F. = 5:1				
WB*	8 Strand – Regular Lay				
M	6 X 19 Class – Extra Improved Plow Steel – Lang Lay				

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

** Swivel end is recommended for operation with 1 part of line.

WORKING AREAS



LIFTOFF CAPABILITIES

Counterweight (Side Frames)	Over End / Over Side (Gantry In Raised Position)	
	Maximum Boom (Ft)	Maximum Boom + Jib (Ft)
NO (RETRACTED)	80	N/A
NO (EXTENDED)	100	N/A
A (RETRACTED)	120	N/A
A (EXTENDED)	140	N/A
A (EXTENDED) See Note 4	150	N/A
AB (EXTENDED)	150	140 + 60 150 + 30

Counterweight (Side Frames)	Over End / Over Side (Gantry In Lowered Position)	
	Maximum Boom (Ft)	Maximum Boom + Jib (Ft)
NO (RETRACTED)	80	N/A
NO (EXTENDED)	90	N/A
A (RETRACTED)	90	N/A
A (EXTENDED)	90	N/A
AB (EXTENDED)	90	60 + 60 70 + 45

NOTES:

- For maximum stability, booms should be erected or lowered over the end with no load – hook block on ground.
- Crane on firm and level surface.
- gantry pins must be installed when the gantry is in the lowered position.
- For 150 ft. boom (side frame extended) with A counterweight only – Adequate blocking must be placed under both treadmember sprockets (or idler rollers) at the end that the boom is to be lifted off to prevent rocking. The ramps supplied with the machine are considered to be adequate blocking.

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

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

Jib Length (ft)	Capacity Deduction (lbs)
30	2,000
45	2,400
60	3,200

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

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

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

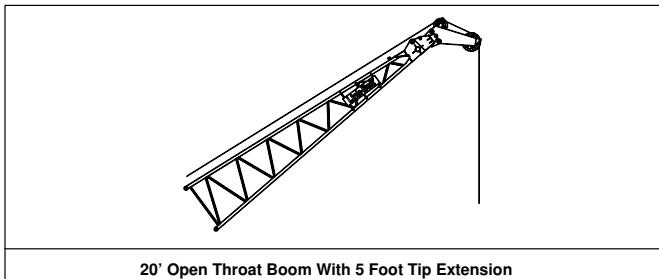
MAXIMUM ALLOWABLE CAPACITIES FOR 5 FOOT TIP EXTENSION

Lifting capacity to be the smallest of the following values:

1. 18,000 lb (Maximum).
2. The standard crane lift capacity minus 1,100 lb for the boom length, tip extension load radius, and counterweight configuration in use on the crane.

Notes:

1. All notes are to be adhered to as listed on the standard lift crane capacity charts .
2. Reduce the main boom lift capacities by 1,100 lb when the tip extension is installed.
3. The maximum boom length on which the tip extension can be installed is 150'.
4. Do not lift or suspend a load from the boom tip extension and main boom at the same time.

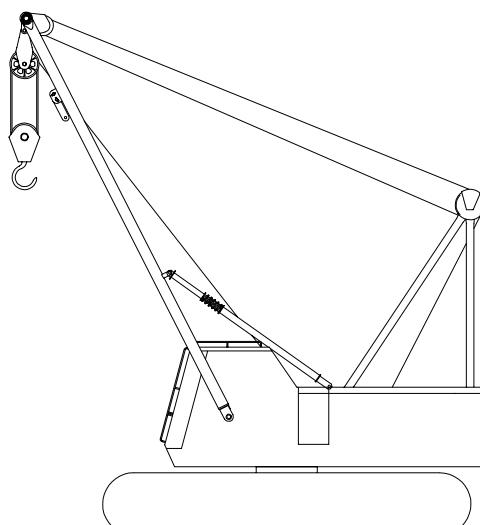


LIVE MAST LIFTING CAPACITIES (WITHOUT COUNTERWEIGHT INSTALLED)

Live Mast		Side Frames Extended (lb)	Side Frames Retracted (lb)
Radius (ft)	Angle (deg)		
10	73.7	60,000	60,000
11	71.2	60,000	51,600
12	68.7	60,000	44,600
13	66.1	60,000	39,200
14	63.5	60,000	34,900
15	60.8	59,400	31,500
16	58.0	52,700	28,600
17	55.1	47,400	26,200
18	52.2	43,000	24,200
19	49.1	39,300	22,500
20	45.8	36,200	20,900
21	42.4	33,500	19,600
22	38.8	31,200	18,400
23	34.8	29,200	17,300
24	30.3	27,400	16,400

Notes:

1. Refer to the Operator's Manual.
2. Live mast backstops must be in position and operative.
3. Use rear hoist drum only. Reeve hoist line to drum over live mast cross member.
4. Reeve hoist rope with three (3) parts of 7/8" diameter wire rope.
5. The crane shall be leveled on a firm supporting surface.
6. Capacities are based on 75% stability.
7. See Crane Assembly Component Weights chart for weight of components for crane assembly.
8. Rated capacities for 360° rotation.
9. Gantry can be either in the raised or lowered position when lifting loads with the live mast. When the gantry is in the lowered position the backstay links must be pinned.
10. Do not lower live mast below 3° angle with gantry in lowered position.



DUTY CYCLE NOTES FOR ANGLE BOOM

1. The capacities included in the "Duty Cycle Capacities – Angle Boom" chart are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
2. Capacities are based on 75% of minimum tipping loads for dragline; 67.5% for clamshell.
3. Weight of bucket plus load, must not exceed these capacities.
4. Dragline operation is not recommended with boom angles less than 35°.
5. Boom length for dragline/clamshell attachment operation should not exceed 70'.
6. Retractable high gantry must be fixed in raised position for all capacities on the "Duty Cycle Capacities – Angle Boom" chart.
7. These capacities apply to the machine as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.
8. Capacities are maximum recommended by PCSA Standard #4. Operator must make allowances for soft or uneven supporting surfaces, rapid cycle operations, bucket suction, or other unfavorable conditions which may require smaller buckets for most efficient operation.

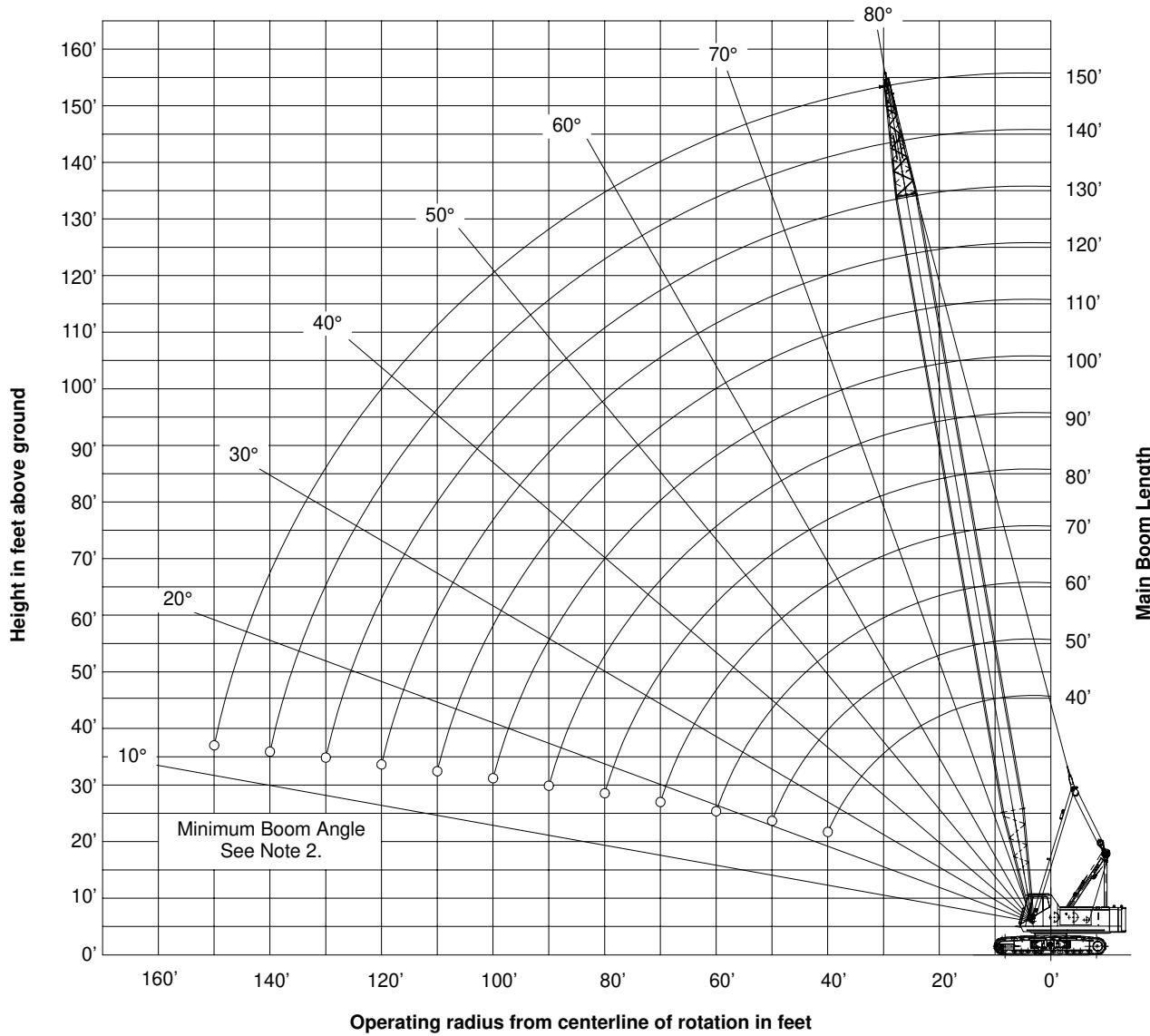
DUTY CYCLE CAPACITIES – ANGLE BOOM

Boom Length (ft)	Load Radius (ft)	Boom Angle (deg)	Side Frames Extended – "A" Counterweight Only (All capacities listed are in pounds)		Boom Length (ft)	Load Radius (ft)	Boom Angle (deg)	Side Frames Extended – "A" Counterweight Only (All capacities listed are in pounds)	
			Dragline	Clamshell/Magnet				Dragline	Clamshell/Magnet
40	9	81.8	---	22,700	60	19	74.8	---	22,700
40	10	80.3	---	22,700	60	20	73.8	---	22,700
40	11	78.9	---	22,700	60	25	68.8	---	22,700
40	12	77.4	---	22,700	60	30	63.6	---	22,700
40	13	75.9	---	22,700	60	35	58.1	22,700	22,700
40	14	74.5	---	22,700	60	40	52.3	22,400	20,160
40	15	73.0	---	22,700	60	50	38.9	16,300	14,670
40	16	71.5	---	22,700	60	60	19.0	---	11,160
40	17	69.9	---	22,700	70	14	81.2	---	22,700
40	18	68.4	---	22,700	70	15	80.4	---	22,700
40	19	66.9	---	22,700	70	16	79.5	---	22,700
40	20	65.3	---	22,700	70	17	78.7	---	22,700
40	25	57.1	22,700	22,700	70	18	77.9	---	22,700
40	30	48.1	22,700	22,700	70	19	77.0	---	22,700
40	35	37.5	22,700	22,700	70	20	76.2	---	22,700
40	40	23.4	---	20,160	70	25	71.9	---	22,700
50	11	81.1	---	22,700	70	30	67.6	---	22,700
50	12	80.0	---	22,700	70	35	63.1	---	22,700
50	13	78.8	---	22,700	70	40	58.4	22,200	19,980
50	14	77.6	---	22,700	70	50	48.1	16,200	14,580
50	15	76.4	---	22,700	70	60	35.9	12,400	11,160
50	16	75.3	---	22,700	70	70	17.6	---	8,730
50	17	74.1	---	22,700	80	15	81.6	---	22,700
50	18	72.9	---	22,700	80	16	80.9	---	22,700
50	19	71.7	---	22,700	80	17	80.1	---	22,700
50	20	70.5	---	22,700	80	18	79.4	---	22,700
50	25	64.3	---	22,700	80	19	78.7	---	22,700
50	30	57.7	22,700	22,700	80	20	77.9	---	22,700
50	35	50.6	22,700	22,700	80	25	74.2	---	22,700
50	40	42.7	22,500	20,250	80	30	70.5	---	22,700
50	50	20.9	---	14,670	80	35	66.6	---	22,700
60	12	81.6	---	22,700	80	40	62.7	---	19,800
60	13	80.7	---	22,700	80	50	54.3	16,000	14,400
60	14	79.7	---	22,700	80	60	44.8	12,200	10,980
60	15	78.7	---	22,700	80	70	33.5	9,600	8,640
60	16	77.8	---	22,700	80	80	16.5	---	6,840
60	17	76.8	---	22,700					
60	18	75.8	---	22,700					

WORKING RANGE DIAGRAM

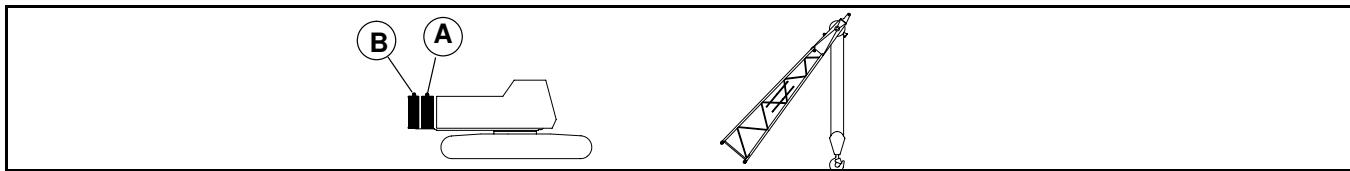
40' TO 150' OPEN THROAT BOOM

Maximum Boom Angle
See Note 2.



Notes:

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

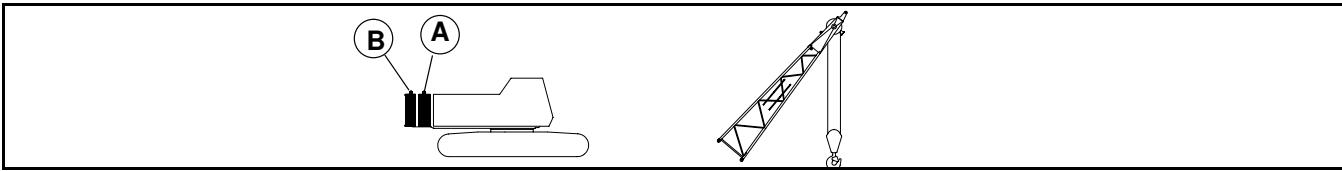


MAIN BOOM CAPACITIES – 40 FT OPEN THROAT ANGLE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
			AB CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
8.9	82.0	160,000	160,000	160,000	160,000	145,600	77,200	
9	81.8	160,000	160,000	160,000	160,000	140,700	74,600	
10	80.3	160,000	160,000	160,000	152,300	114,800	60,600	
11	78.9	160,000	160,000	156,700	119,900	96,800	50,900	
12	77.4	160,000	160,000	144,600	95,700	83,600	43,800	
13	75.9	151,200	151,200	134,100	79,500	73,500	38,300	
14	74.5	140,900	140,900	116,900	67,800	65,500	34,000	
15	73.0	132,000	132,000	102,000	59,100	59,000	30,500	
16	71.5	124,000	124,000	90,500	52,200	53,600	27,600	
17	69.9	117,000	117,000	81,200	46,800	49,100	25,200	
18	68.4	110,600	107,700	73,600	42,300	45,300	23,100	
19	66.9	104,900	98,600	67,300	38,600	42,000	21,300	
20	65.3	99,800	90,800	61,900	35,400	39,100	19,800	
25	57.1	79,600	64,900	44,000	24,800	28,900	14,300	
30	48.1	60,500	50,200	33,800	18,800	22,500	10,700	
35	37.5	48,500	40,600	27,100	14,800	18,200	8,300	
40	23.4	35,500	33,800	22,400	11,900	15,000	6,600	

MAIN BOOM CAPACITIES – 60 FT OPEN THROAT ANGLE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
			AB CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
11.7	82.0	130,200	130,200	130,200	103,800	87,900	46,100	
12	81.6	129,000	129,000	129,000	96,100	83,500	43,700	
13	80.7	125,900	125,900	125,900	79,700	73,300	38,200	
14	79.7	122,800	122,800	117,000	68,000	65,300	33,800	
15	78.7	120,000	120,000	102,100	59,100	58,800	30,300	
16	77.8	117,300	117,300	90,500	52,300	53,400	27,400	
17	76.8	114,700	114,700	81,200	46,700	48,900	25,000	
18	75.8	110,100	107,700	73,600	42,200	45,000	22,900	
19	74.8	104,500	98,500	67,200	38,500	41,700	21,100	
20	73.8	99,400	90,700	61,800	35,300	38,800	19,500	
25	68.8	79,500	64,700	43,800	24,600	28,500	13,900	
30	63.6	60,300	49,900	33,600	18,500	22,300	10,500	
35	58.1	48,300	40,400	27,000	14,600	18,100	8,300	
40	52.3	40,100	33,800	22,400	11,900	15,100	6,600	
50	38.9	29,700	25,100	16,300	8,300	10,900	4,300	
60	19.0	21,900	19,600	12,400	5,900	8,100	2,700	

MAIN BOOM CAPACITIES – 50 FT OPEN THROAT ANGLE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
			AB CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
10.3	82.0	149,300	149,300	149,300	148,400	109,900	58,000	
11	81.1	146,200	146,200	146,200	120,200	96,800	50,900	
12	80.0	142,300	142,300	142,300	95,900	83,600	43,800	
13	78.8	138,700	138,700	133,700	79,600	73,400	38,300	
14	77.6	134,000	134,000	117,000	67,900	65,400	34,000	
15	76.4	130,800	130,800	102,100	59,100	58,900	30,500	
16	75.3	123,800	123,800	90,500	52,300	53,500	27,500	
17	74.1	116,800	116,800	81,200	46,800	49,000	25,100	
18	72.9	110,500	107,700	73,600	42,300	45,200	23,000	
19	71.7	104,800	98,500	67,300	38,500	41,900	21,200	
20	70.5	99,600	90,800	61,900	35,300	39,000	19,700	
25	64.3	79,600	64,800	43,900	24,700	28,700	14,100	
30	57.7	60,400	50,100	33,700	18,700	22,500	10,700	
35	50.6	48,500	40,600	27,100	14,800	18,200	8,400	
40	42.7	40,300	33,900	22,500	12,000	15,100	6,700	
50	20.9	27,100	25,100	16,300	8,300	10,900	4,300	

MAIN BOOM CAPACITIES – 70 FT OPEN THROAT ANGLE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
			AB CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
13.1	82.0	114,400	114,400	114,400	79,400	73,000	37,900	
14	81.2	110,700	110,700	110,700	68,000	65,100	33,700	
15	80.4	108,200	108,200	102,100	59,100	58,600	30,200	
16	79.5	105,900	105,900	90,500	52,200	53,200	27,200	
17	78.7	103,700	103,700	81,100	46,700	48,700	24,800	
18	77.9	101,500	101,500	73,500	42,100	44,800	22,700	
19	77.0	99,500	98,400	67,100	38,400	41,500	20,900	
20	76.2	97,500	90,600	61,700	35,100	38,600	19,300	
25	71.9	79,300	64,500	43,600	24,400	28,300	13,700	
30	67.6	60,200	49,800	33,400	18,400	22,100	10,300	
35	63.1	48,200	40,200	26,800	14,400	17,900	8,000	
40	58.4	40,000	33,600	22,200	11,700	14,800	6,400	
50	48.1	29,500	24,900	16,200	8,100	10,700	4,200	
60	35.9	23,000	19,500	12,400	5,800	8,000	2,600	
70	17.6	17,500	15,700	9,700	4,200	6,100	1,500	

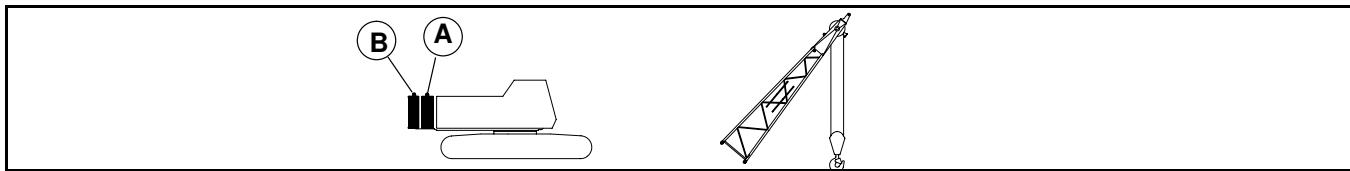


MAIN BOOM CAPACITIES – 80 FT OPEN THROAT ANGLE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
		AB CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
14.5	82.0	101,100	101,100	101,100	64,000	62,100	32,000	
15	81.6	99,800	99,800	99,800	59,100	58,500	30,000	
16	80.9	97,800	97,800	90,400	52,100	53,100	27,100	
17	80.1	95,800	95,800	81,000	46,600	48,500	24,600	
18	79.4	93,900	93,900	73,400	42,000	44,700	22,500	
19	78.7	92,100	92,100	67,000	38,200	41,300	20,700	
20	77.9	89,200	89,200	61,500	35,000	38,400	19,100	
25	74.2	78,900	64,400	43,500	24,300	28,100	13,500	
30	70.5	60,000	49,600	33,200	18,200	21,900	10,100	
35	66.6	48,000	40,000	26,600	14,200	17,600	7,800	
40	62.7	39,800	33,400	22,000	11,500	14,600	6,200	
50	54.3	29,300	24,700	16,000	7,900	10,500	3,900	
60	44.8	22,800	19,300	12,200	5,700	7,900	2,500	
70	33.5	18,400	15,600	9,600	4,100	6,000	—	
80	16.5	14,200	12,800	7,600	2,900	4,500	—	

MAIN BOOM CAPACITIES – 100 FT OPEN THROAT ANGLE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
		AB CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
17.2	82.0	80,700	80,700	79,200	45,400	47,300		
18	81.5	79,600	79,600	73,100	41,800	44,200		
19	81.0	78,200	78,200	66,700	38,000	40,900		
20	80.4	76,900	76,900	61,300	34,700	38,000		
25	77.5	70,800	64,000	43,100	23,900	27,700		
30	74.5	59,600	49,200	32,800	17,800	21,400		
35	71.5	47,600	39,600	26,200	13,800	17,100		
40	68.5	39,400	32,900	21,500	11,000	14,100		
50	62.1	28,800	24,300	15,500	7,400	10,000		
60	55.4	22,400	18,800	11,700	5,200	7,400		
70	48.2	18,000	15,100	9,100	3,600	5,600		
80	39.9	14,800	12,400	7,300	2,500	4,200		
90	29.9	12,400	10,300	5,800	1,600	3,100		
100	14.7	9,400	8,600	4,600	—	2,200		

MAIN BOOM CAPACITIES – 90 FT OPEN THROAT ANGLE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
		AB CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
15.9	82.0	89,500	89,500	89,500	53,300	53,800		
16	81.9	89,200	89,200	89,200	52,100	52,900		
17	81.2	87,500	87,500	80,900	46,500	48,300		
18	80.6	85,900	85,900	73,200	41,900	44,400		
19	79.9	84,300	84,300	66,800	38,100	41,100		
20	79.3	82,800	82,800	61,400	34,900	38,200		
25	76.0	76,000	64,200	43,300	24,100	27,900		
30	72.7	59,800	49,400	33,000	18,000	21,600		
35	69.4	47,800	39,800	26,400	14,000	17,400		
40	65.9	39,600	33,200	21,800	11,300	14,400		
50	58.7	29,000	24,500	15,700	7,700	10,300		
60	50.9	22,600	19,100	12,000	5,400	7,700		
70	42.2	18,200	15,400	9,400	3,900	5,800		
80	31.5	15,100	12,600	7,500	2,700	4,400		
90	15.5	11,600	10,500	6,000	1,800	3,300		

MAIN BOOM CAPACITIES – 110 FT OPEN THROAT ANGLE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
		AB CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
18.6	82.0	73,000	73,000	69,000			42,000	
19	81.8	72,500	72,500	66,600			40,700	
20	81.3	71,300	71,300	61,100			37,800	
25	78.6	64,900	63,800	42,900			27,400	
30	75.9	59,500	48,900	32,600			21,100	
35	73.2	47,400	39,400	25,900			16,900	
40	70.5	39,100	32,700	21,300			13,900	
50	64.9	28,600	24,000	15,200			9,800	
60	59.0	22,100	18,600	11,500			7,100	
70	52.7	17,700	14,900	8,900			5,300	
80	45.8	14,600	12,200	7,000			4,000	
90	38.0	12,200	10,100	5,600			2,900	
100	28.4	10,300	8,500	4,400			2,000	
110	14.0	7,500	7,100	3,400			—	



MAIN BOOM CAPACITIES – 120 FT OPEN THROAT ANGLE BOOM										
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation						Load Radius (Ft.)	
			Side Frames Extended			Side Frames Retracted				
			AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)			
20.0	82.0	65,100	65,100	61,000		37,600			22.8	
25	79.6	60,500	60,500	42,700		27,200			25	
30	77.1	56,400	48,700	32,400		20,900			30	
35	74.7	47,200	39,200	25,700		16,600			35	
40	72.2	38,900	32,500	21,100		13,600			40	
50	67.1	28,400	23,800	15,000		9,500			50	
60	61.8	21,900	18,300	11,200		6,900			60	
70	56.2	17,500	14,600	8,600		5,000			70	
80	50.3	14,300	11,900	6,800		3,700			80	
90	43.7	12,000	9,900	5,300		2,600			90	
100	36.3	10,100	8,200	4,200		1,800			100	
110	27.2	8,600	6,900	3,200		—			110	
120	13.4	5,900	5,800	2,400		—			120	

MAIN BOOM CAPACITIES – 140 FT OPEN THROAT ANGLE BOOM										
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation						Load Radius (Ft.)	
			Side Frames Extended			Side Frames Retracted				
			AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)			
22.8	82.0	53,900	53,900	49,100					22.8	
25	81.1	52,300	52,300	42,300					25	
30	79.0	49,000	48,300	31,900					30	
35	76.9	43,000	38,700	25,200					35	
40	74.8	38,400	32,000	20,600					40	
50	70.5	27,900	23,300	14,500					50	
60	66.1	21,400	17,800	10,700					60	
70	61.5	17,000	14,100	8,100					70	
80	56.8	13,800	11,400	6,200					80	
90	51.7	11,400	9,300	4,800					90	
100	46.3	9,600	7,700	3,700					100	
110	40.3	8,100	6,400	2,700					110	
120	33.5	6,800	5,300	2,000					120	
130	25.2	5,800	4,400	—					130	
140	12.4	3,300	3,300	—					140	

MAIN BOOM CAPACITIES – 130 FT OPEN THROAT ANGLE BOOM										
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation						Load Radius (Ft.)	
			Side Frames Extended			Side Frames Retracted				
			AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)			
21.4	82.0	59,200	59,200	54,500					21.4	
25	80.4	56,300	56,300	42,500					25	
30	78.1	52,600	48,500	32,100					30	
35	75.9	47,000	38,900	25,500					35	
40	73.6	38,700	32,200	20,800					40	
50	68.9	28,100	23,500	14,800					50	
60	64.1	21,600	18,100	11,000					60	
70	59.1	17,200	14,400	8,400					70	
80	53.8	14,100	11,700	6,500					80	
90	48.2	11,700	9,600	5,100					90	
100	41.9	9,800	8,000	3,900					100	
110	34.8	8,300	6,700	3,000					110	
120	26.1	7,100	5,600	2,200					120	
130	12.9	4,500	4,500	1,500					130	

MAIN BOOM CAPACITIES – 150 FT OPEN THROAT ANGLE BOOM										
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation						Load Radius (Ft.)	
			Side Frames Extended			Side Frames Retracted				
			AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)			
24.2	82.0	49,000	49,000	44,500					24.2	
25	81.7	48,500	48,500	42,100					25	
30	79.7	44,400	44,400	31,700					30	
35	77.8	40,000	38,500	25,000					35	
40	75.8	35,700	31,800	20,300					40	
50	71.9	27,600	23,000	14,200					50	
60	67.8	21,100	17,600	10,400					60	
70	63.6	16,700	13,800	7,800					70	
80	59.2	13,600	11,100	6,000					80	
90	54.7	11,200	9,100	4,500					90	
100	49.9	9,300	7,400	3,400					100	
110	44.6	7,800	6,100	2,500					110	
120	38.9	6,500	5,100	1,700					120	
130	32.4	5,300	4,100	—					130	
140	24.3	4,000	3,300	—					140	
150	12.0	2,100	2,100	—					150	

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Lifting Capacities

Lattice Boom Crawler Crane

LS-138H II

80-ton (72.57 metric ton)

HYLAB Series

Tube Boom Capacities

40' – 200' (12.19 – 60.96 m)

24' (7.31 m) Live Mast

- Extended/Retracted Side Frames

20' (6.10 m) Base Section

- Extended/Retracted Side Frames

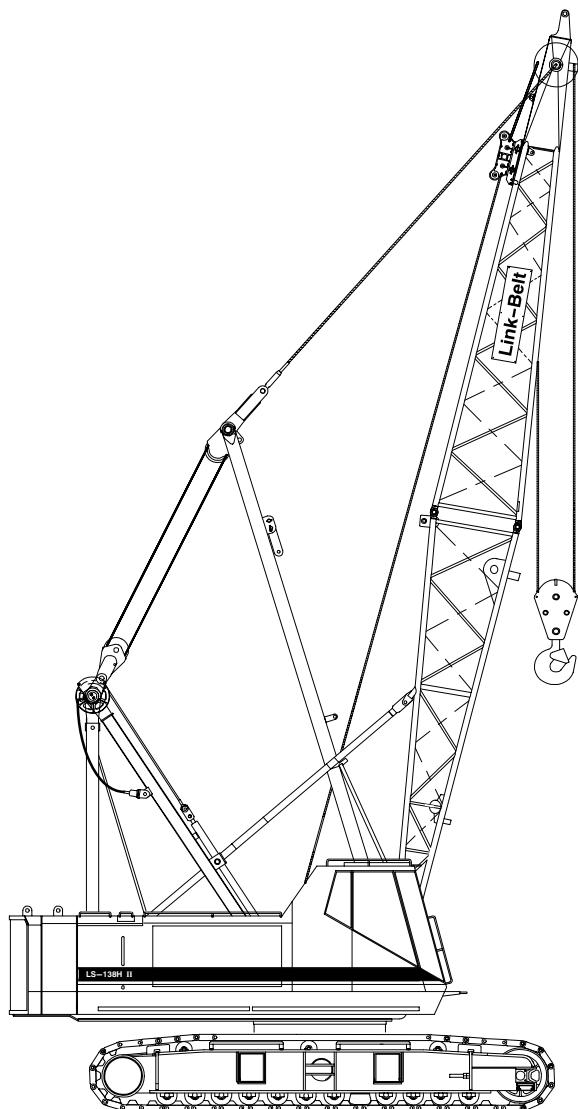
5' (1.52m) Tip Extension

Duty Cycle Capacities

- 40' – 70' (12.19 – 21.34 m) Tube Boom
- Extended Side Frames
- "A" Counterweight

Tube Boom Capacities

- 40' – 200' (12.19 – 60.96 m) Tube Boom
- 54" (1.37 m) Wide x 44" (1.12 m) Deep Boom
- 20' (6.10 m) Open Throat Top Section
- 24' (7.31 m) Live Mast
- Extended / Retracted Side Frames
- Over End Blocked Capacities
- "AB", "A", or "O" Counterweight Options
- 20' 2" (6.15 m) Crawler Length



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



WARNING

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

OPERATING INSTRUCTIONS

GENERAL:

1. Rated lifting capacities in pounds as shown on lift charts pertain to this crane as originally manufactured and normally equipped. Modifications to the crane or use of optional equipment other than that specified can result in a reduction of capacity.
2. Construction equipment can be dangerous if improperly operated or maintained. Operation and maintenance of this crane must be in compliance with the information in the Operator's, Parts, and Safety Manuals supplied with this crane. If these manuals are missing, order replacements through the distributor.
3. The operator and other personnel associated with this crane shall read and fully understand the latest applicable American National Standards Institute (ANSI) safety standards for cranes.
4. All capacities listed in this book are in compliance with ASME/ANSI B30.5c-1998, SAE J987—April 1994, and SAE J765—October 1990.

LIFT CRANE OPERATION:

1. Capacities shown are in pounds and are not more than 75% of the tipping loads with the crane standing level on firm supporting surface. A deduction must be made from these capacities for weight of hook block, hook ball, sling, grapple, load weighing device, etc. When using main hook while jib is attached, reduce capacities by values shown on Capacity Deductions For Lifting Off Main Boom Hook With Jib Installed. When using main hook while 5ft. tip extension is attached, reduce capacities by values shown on Capacity Deductions For Lifting Off Main Boom Hook With 5ft. Tip Extension Installed. See Operator's Manual for all limitations when raising or lowering attachment.
2. The crane capacities in the shaded areas are based on structural strength. The crane capacities in the non-shaded areas are based on stability ratings.

3. For recommended reeving, parts of line, wire rope type, and wire rope inspection, see Wire Rope Capacity chart, Operator's Manual, and Parts Manual.
4. Load ratings in this Crane Rating Manual are based on freely suspended loads and make no allowances for such factors as the effect of the wind, ground conditions, and operating speeds. The operator shall therefore reduce load ratings in order to take these conditions into account.
5. Rated lifting capacities do not account for the effects of wind on a suspended load or boom. Lifting capacities should be considered acceptable for wind speeds less than 20 mph and appropriately reduced for wind speeds greater than 20 mph. Extreme caution should be used when lifting heavy loads or loads with large wind sail area under high wind conditions (over 20 mph).
6. The 24ft. live mast must be used for all capacities in this Crane Rating Manual.
7. The least stable rated condition is over the side.
8. Booms must be erected and lowered over the end.
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 this 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 the crane standing level on a firm supporting surface with adequate blocking placed under the tread member sprockets/idlers, to prevent rocking.
2. Do not travel with a load.

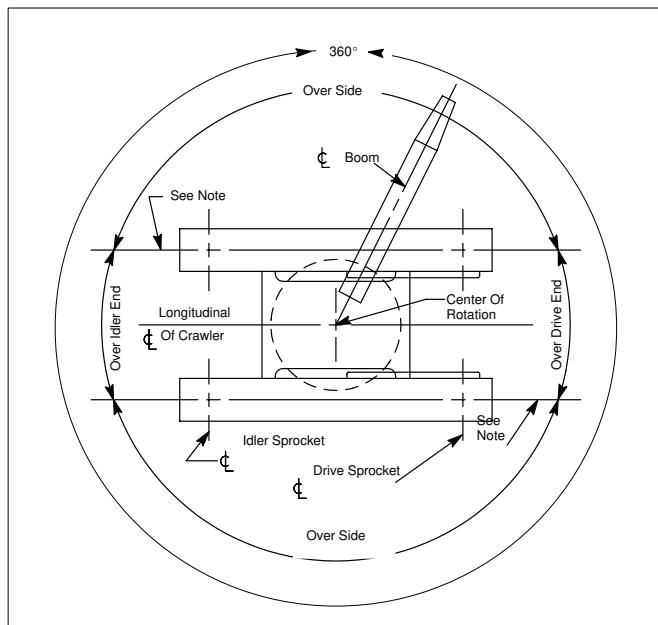
WIRE ROPE CAPACITY

Parts of Line	7/8"		5/8"		Notes	
	Type "DB"	Type "RB"	Type "ZB"	Type "WB"		
1	22,700	17,520 *	11,000 **	13,650 *	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	45,400	35,040	22,000	27,310		
3	68,100	52,560	33,000	40,970		
4	90,800	70,080	44,000	54,620		
5	113,500	87,600	55,000	68,280		
6	136,200	105,120	66,000	81,940		
7	158,900	122,640	77,000	95,600		
8	181,600	140,160	88,000	109,250		
LBCE Type	Description					
DB	6 x 26 (6 x 19 Class) – Warrington Seale – Extra Improved Plow Steel – Preformed – Right Lay – Regular Lay – I.W.R.C.					
RB	19 x 19 Rotation Resistant– Extra Extra Improved Plow Steel – Preformed – Right Lay – Regular Lay. Swaged – SF = 5:1					
ZB	36 x 7 Class – Non-Rotating – Extra Improved Plow Steel – Right Lay – Regular Lay – S.F. = 5:1					
WB	8 Strand – Regular Lay					

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

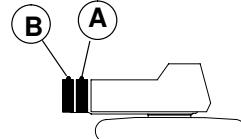
** Swivel end is recommended for operation with 1 part of line.

WORKING AREAS



Note:

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



LIFTOFF CAPABILITIES

Counterweight (Side Frames)	Over End	
	Maximum Boom Feet	Maximum Boom + Jib Feet
NO (RETRACTED)	90	N/A
NO (EXTENDED)	120	N/A
A (RETRACTED)	140	N/A
A (EXTENDED)	170	N/A
AB (EXTENDED) See Note 6	200	180 + 60 190 + 30 See Note 6

Counterweight (Side Frames)	Over Side	
	Maximum Boom Feet	Maximum Boom + Jib Feet
NO (RETRACTED)	90	N/A
NO (EXTENDED)	120	N/A
A (RETRACTED)	140	N/A
A (EXTENDED)	170	N/A
AB (EXTENDED)	200	170 + 60

NOTES:

- Booms should be erected or lowered over the end with no load if possible – hook block on ground. (See Note 6).
- Crane on firm and level surface.
- Open throat booms 190' and 200' in length require mid-point suspension pendants.
- Boom and jib combination of 190' + 30' does require mid-point suspension pendants.
- Boom and jib combination of 180' + 60' does not require mid-point suspension pendants.
- For Maximum Boom + Jib Combinations only – Adequate blocking must be placed under The side frame sprockets/idlers to prevent rocking. (Lift Off Over End only).

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

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

Jib Length (ft)	Capacity Deduction (lbs)
30	2,000
45	2,400
60	3,200

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

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

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

20' BASE SECTION CYLINDER LIFTING CAPACITIES (WITHOUT COUNTERWEIGHT INSTALLED)

Base Section Cylinders		Side Frames Extended	Side Frames Retracted
Radius (ft)	Angle (deg)	(lb)	(lb)
15	55.0	26,500	26,500
16	50.9	26,500	26,500
17	46.4	26,500	26,100
18	41.6	26,500	23,900
19	36.0	26,500	22,000
20	29.5	26,500	20,300
21	20.6	26,500	18,700

NOTES:

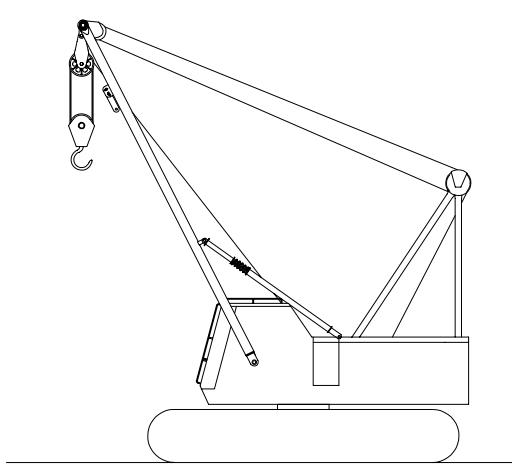
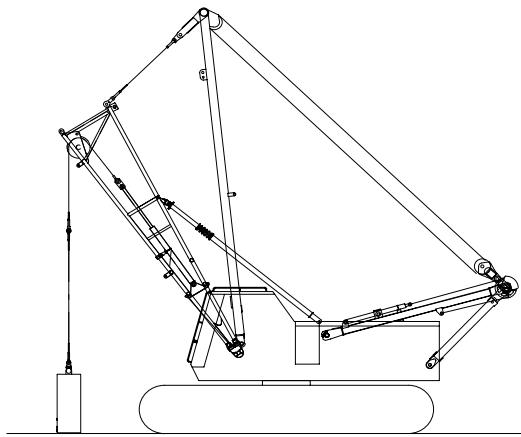
1. Rated capacities for 360° rotation.
2. Boom base section supported by make up pendants.
3. Lifting any load with one cylinder is prohibited. Rated capacities are for lifting loads with both cylinders.
4. Gantry can be either in the raised or lowered position when lifting loads with the cylinders in the base section. When the gantry is in the lowered position the backstay links must be pinned.
5. Do not raise boom higher than 55° angle.
6. Do not lower live mast below 3° angle with gantry in lowered position.

LIVE MAST LIFTING CAPACITIES (WITHOUT COUNTERWEIGHT INSTALLED)

Live Mast		Side Frames Extended	Side Frames Retracted
Radius (ft)	Angle (deg)	(lb)	(lb)
10	73.7	60,000	60,000
11	71.2	60,000	51,600
12	68.7	60,000	44,600
13	66.1	60,000	39,200
14	63.5	60,000	34,900
15	60.8	59,400	31,500
16	58.0	52,700	28,600
17	55.1	47,400	26,200
18	52.2	43,000	24,200
19	49.1	39,300	22,500
20	45.8	36,200	20,900
21	42.4	33,500	19,600
22	38.8	31,200	18,400
23	34.8	29,200	17,300
24	30.3	27,400	16,400

NOTES:

1. Refer to the Operator's Manual.
2. Live mast backstops must be in position and operative.
3. Use rear hoist drum only. Reeve hoist line to drum over live mast cross member.
4. Reeve hoist rope with three (3) parts of 7/8" diameter wire rope.
5. The crane shall be leveled on a firm supporting surface.
6. Capacities are based on 75% stability.
7. See Crane Assembly Component Weights chart for weight of components for crane assembly.
8. Rated capacities for 360° rotation.
9. Gantry can be either in the raised or lowered position when lifting loads with the live mast. When the gantry is in the lowered position the backstay links must be pinned.
10. Do not lower live mast below 3° angle with gantry in lowered position.



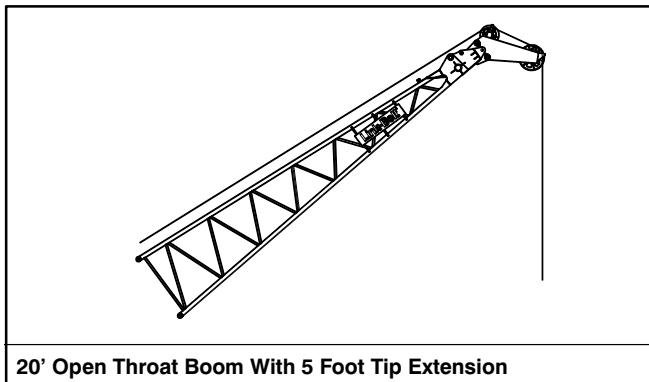
MAXIMUM ALLOWABLE CAPACITIES FOR 5 FOOT TIP EXTENSION

LIFTING CAPACITY TO BE THE SMALLEST OF THE FOLLOWING VALUES:

1. 18,000 lb (Maximum).
2. The standard crane lift capacity minus 1,100 lb for the boom length, tip extension load radius, and counterweight configuration in use on the crane.

NOTES:

1. All notes are to be adhered to as listed on the standard lift crane capacity charts .
2. Reduce the main boom lift capacities by 1,100 lb when the tip extension is installed.
3. The maximum boom length on which the tip extension can be installed is 150'.
4. Do not lift or suspend a load from the boom tip extension and main boom at the same time.



DUTY CYCLE NOTES FOR TUBULAR BOOM

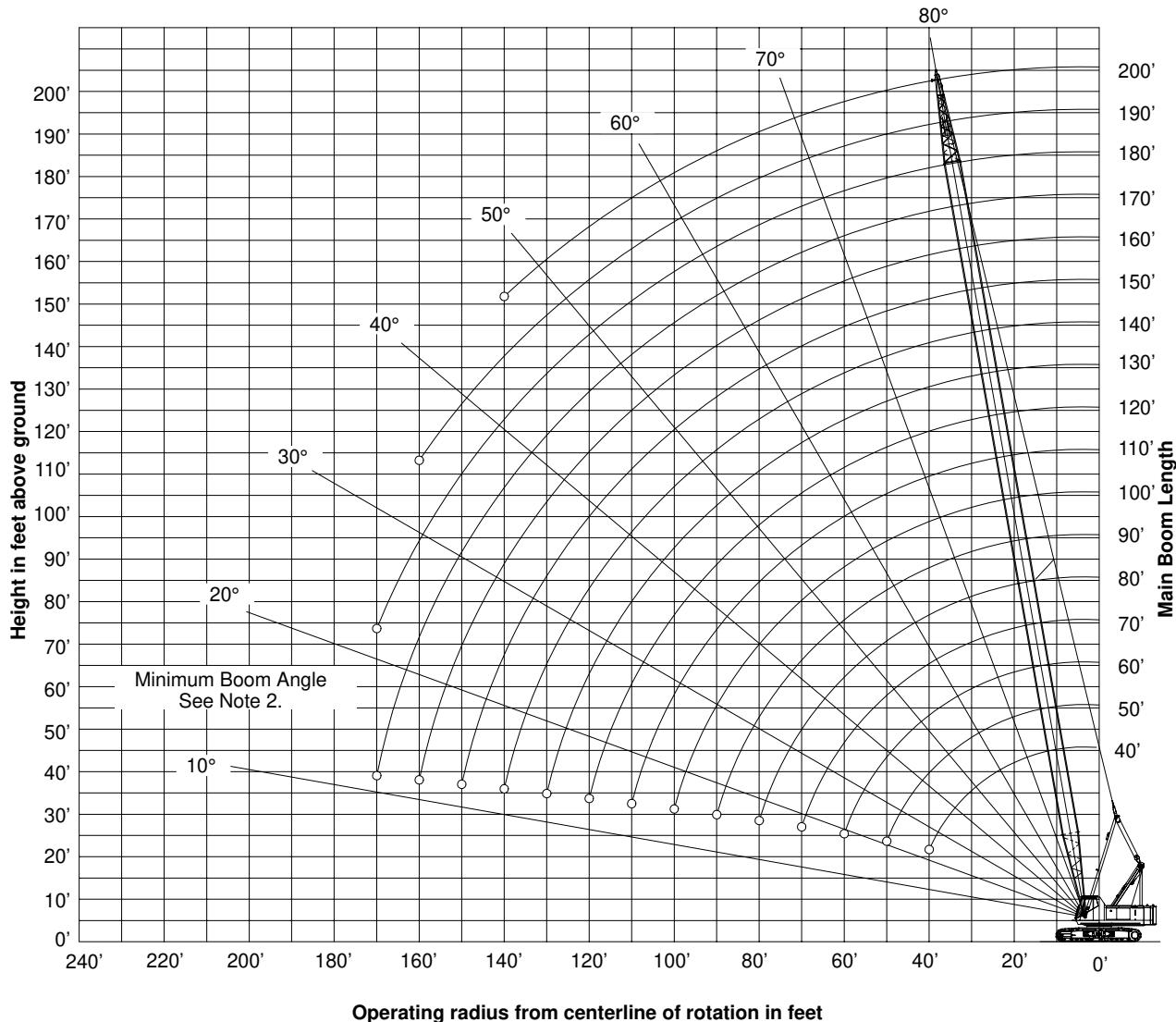
1. The capacities included in this chart are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
2. Capacities are based on 75% of minimum tipping loads for dragline; 67.5% for clamshell.
3. Capacities are maximum recommended by PCSA Standard #4. User must make allowances for soft or uneven supporting surfaces, rapid cycle operations, bucket suction or other unfavorable conditions which may require smaller buckets for most efficient operation.
4. Weight of bucket, plus load must not exceed these capacities.
5. Dragline operation is not recommended with boom angles less than 35°.
6. Boom length for dragline/clamshell attachment operation should not exceed 70'.
7. Retractable high gantry must be fixed in raised position for all capacities on this chart.
8. These capacities apply to the machine as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.

DUTY CYCLE CAPACITIES TUBULAR BOOM				
Boom Length (ft)	Load Radius (ft)	Boom Angle (deg)	Side Frames Extended – "A" Counterweight Only (All capacities listed are in pounds)	
			Dragline	Clamshell/Magnet
40	15	73.0	—	15,800
40	20	65.3	—	15,800
40	25	57.1	15,800	15,800
40	30	48.1	15,800	15,800
40	35	37.5	15,800	15,800
40	40	23.4	—	15,800
50	20	70.5	—	15,800
50	25	64.3	—	15,800
50	30	57.7	15,800	15,800
50	35	50.6	15,800	15,800
50	40	42.7	15,800	15,800
50	50	20.9	—	15,800
60	25	68.8	—	15,800
60	30	63.6	—	15,800
60	35	58.1	15,800	15,800
60	40	52.3	15,800	15,800
60	50	38.9	15,800	15,800
60	60	19.0	—	11,700
70	25	71.9	—	15,800
70	30	67.6	—	15,800
70	35	63.1	—	15,800
70	40	58.4	15,800	15,800
70	50	48.1	15,800	15,800
70	60	35.9	13,000	11,700
70	70	17.6	—	9,300

WORKING RANGE DIAGRAM

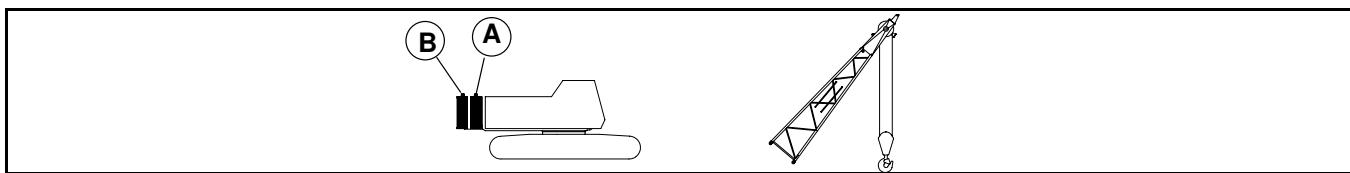
40' TO 200' OPEN THROAT BOOM

Maximum Boom Angle
See Note 2.



Notes:

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

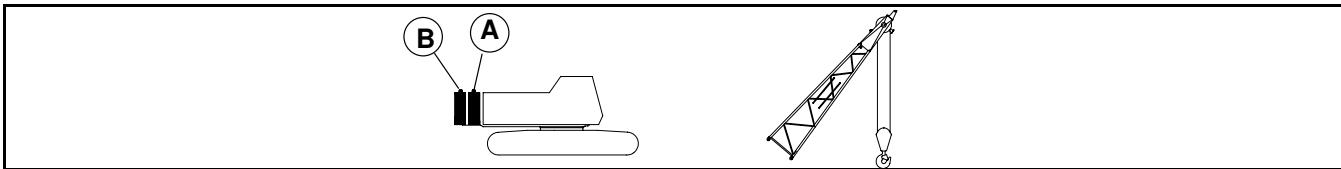


MAIN BOOM CAPACITIES – 40 FT OPEN THROAT TUBE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
			AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
9	81.8	160,000	160,000	160,000	160,000	143,300	77,200	
10	80.3	160,000	160,000	160,000	153,200	116,900	62,800	
11	78.9	160,000	160,000	157,600	123,000	98,600	52,700	
12	77.4	160,000	160,000	145,300	98,100	85,100	45,300	
13	75.9	151,900	151,900	134,800	81,500	74,800	39,700	
14	74.5	141,600	141,600	118,600	69,500	66,600	35,200	
15	73.0	132,600	132,600	103,500	60,500	60,000	31,500	
16	71.5	124,700	124,700	91,800	53,500	54,500	28,500	
17	69.9	117,600	117,600	82,300	47,900	49,900	26,000	
18	68.4	111,300	108,700	74,600	43,300	46,000	23,900	
19	66.9	105,600	99,500	68,200	39,400	42,600	22,000	
20	65.3	100,400	91,600	62,700	36,200	39,700	20,400	
25	57.1	80,200	65,400	44,500	25,300	29,200	14,600	
30	48.1	60,900	50,500	34,100	19,100	22,900	11,100	
35	37.5	48,800	40,900	27,400	15,100	18,600	8,700	
40	23.4	40,500	34,100	22,700	12,200	15,400	7,000	

MAIN BOOM CAPACITIES – 70 FT OPEN THROAT TUBE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
			AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
14	81.2	129,700	129,700	119,600	70,600	67,100	35,700	
15	80.4	126,800	126,800	104,400	61,400	60,400	32,000	
16	79.5	124,100	124,100	92,600	54,300	54,900	28,900	
17	78.7	117,100	117,100	83,000	48,600	50,300	26,400	
18	77.9	110,800	109,400	75,200	43,900	46,300	24,200	
19	77.0	105,200	100,000	68,700	40,000	42,900	22,300	
20	76.2	100,000	92,100	63,200	36,700	39,900	20,600	
25	71.9	80,200	65,700	44,800	25,600	29,400	14,800	
30	67.6	61,200	50,800	34,400	19,400	23,000	11,300	
35	63.1	49,100	41,100	27,700	15,300	18,700	8,900	
40	58.4	40,800	34,400	23,000	12,500	15,600	7,100	
50	48.1	30,100	25,600	16,800	8,800	11,400	4,800	
60	35.9	23,600	20,100	13,000	6,400	8,700	3,300	
70	17.6	19,100	16,300	10,300	4,800	6,800	2,200	

MAIN BOOM CAPACITIES – 50 FT OPEN THROAT TUBE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
			AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
11	81.1	159,900	159,900	157,300	123,900	99,000	53,100	
12	80.0	159,900	159,900	145,100	98,900	85,500	45,700	
13	78.8	151,700	151,700	134,600	82,100	75,100	40,000	
14	77.6	141,500	141,500	119,100	70,000	66,900	35,500	
15	76.4	132,500	132,500	104,000	61,000	60,300	31,800	
16	75.3	124,600	124,600	92,200	53,900	54,800	28,800	
17	74.1	117,500	117,500	82,700	48,300	50,200	26,200	
18	72.9	111,200	109,100	75,000	43,600	46,200	24,100	
19	71.7	105,500	99,800	68,500	39,800	42,800	22,200	
20	70.5	100,300	91,900	63,000	36,500	39,900	20,600	
25	64.3	80,200	65,600	44,700	25,500	29,400	14,800	
30	57.7	61,100	50,700	34,300	19,300	23,000	11,300	
35	50.6	49,000	41,100	27,600	15,300	18,700	8,900	
40	42.7	40,700	34,400	22,900	12,400	15,600	7,200	
50	20.9	30,000	25,500	16,800	8,700	11,400	4,800	

MAIN BOOM CAPACITIES – 60 FT OPEN THROAT TUBE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
			AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
12	81.6	149,600	149,600	144,800	99,300	85,600	45,900	
13	80.7	146,400	146,400	134,400	82,500	75,300	40,100	
14	79.7	141,200	141,200	119,400	70,400	67,000	35,600	
15	78.7	132,300	132,300	104,200	61,300	60,400	31,900	
16	77.8	124,400	124,400	92,400	54,200	54,900	28,900	
17	76.8	117,400	117,400	82,900	48,500	50,300	26,300	
18	75.8	111,100	109,300	75,100	43,800	46,300	24,200	
19	74.8	105,400	99,900	68,700	39,900	42,900	22,300	
20	73.8	100,200	92,100	63,200	36,600	39,900	20,600	
25	68.8	80,200	65,700	44,800	25,600	29,400	14,800	
30	63.6	61,200	50,800	34,400	19,400	23,000	11,300	
35	58.1	49,100	41,100	27,700	15,300	18,700	8,900	
40	52.3	40,800	34,400	23,000	12,500	15,600	7,200	
50	38.9	30,100	25,600	16,800	8,800	11,400	4,800	
60	19.0	23,600	20,100	13,000	6,400	8,700	3,300	



MAIN BOOM CAPACITIES – 100 FT OPEN THROAT TUBE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
		AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
18	81.5	93,400	93,400	75,300	44,000	46,200		
19	81.0	92,000	92,000	68,800	40,000	42,700		
20	80.4	89,400	89,400	63,200	36,700	39,700		
25	77.5	79,600	65,600	44,700	25,500	29,200		
30	74.5	61,100	50,600	34,200	19,200	22,700		
35	71.5	48,900	40,900	27,400	15,100	18,400		
40	68.5	40,600	34,100	22,700	12,200	15,300		
50	62.1	29,900	25,300	16,600	8,500	11,100		
60	55.4	23,400	19,800	12,700	6,200	8,400		
70	48.2	18,900	16,100	10,100	4,600	6,500		
80	39.9	15,700	13,300	8,100	3,400	5,100		
90	29.9	13,300	11,200	6,700	2,500	4,000		
100	14.7	11,400	9,500	5,500	—	3,100		

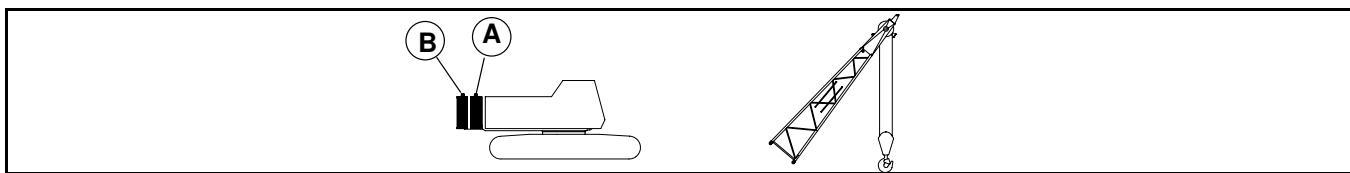
MAIN BOOM CAPACITIES – 130 FT OPEN THROAT TUBE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
		AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
25	80.4	65,100	65,100	44,500			28,800	
30	78.1	60,900	50,300	33,900			22,300	
35	75.9	48,600	40,600	27,100			18,000	
40	73.6	40,200	33,800	22,300			14,800	
50	68.9	29,500	24,900	16,200			10,600	
60	64.1	23,000	19,400	12,300			7,900	
70	59.1	18,500	15,600	9,600			6,000	
80	53.8	15,300	12,900	7,700			4,700	
90	48.2	12,900	10,800	6,300			3,600	
100	41.9	11,000	9,200	5,100			2,700	
110	34.8	9,500	7,800	4,200			2,000	
120	26.1	8,200	6,700	3,400			—	
130	12.9	7,100	5,800	2,700			—	

MAIN BOOM CAPACITIES – 110 FT OPEN THROAT TUBE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
		AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
25	78.6	77,100	65,500	44,600	25,400	29,000		
30	75.9	61,000	50,500	34,100	19,100	22,600		
35	73.2	48,800	40,800	27,300	15,000	18,200		
40	70.5	40,500	34,000	22,600	12,100	15,100		
50	64.9	29,800	25,200	16,400	8,400	10,900		
60	59.0	23,200	19,700	12,600	6,000	8,200		
70	52.7	18,800	15,900	9,900	4,400	6,400		
80	45.8	15,600	13,200	8,000	3,300	5,000		
90	38.0	13,200	11,100	6,500	2,400	3,900		
100	28.4	11,300	9,400	5,400	—	3,000		
110	14.0	9,700	8,100	4,400	—	2,300		

MAIN BOOM CAPACITIES – 140 FT OPEN THROAT TUBE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
		AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
25	81.1	60,000	60,000	44,400			28,700	
30	79.0	56,700	50,200	33,800			22,200	
35	76.9	48,500	40,400	27,000			17,800	
40	74.8	40,100	33,600	22,200			14,700	
50	70.5	29,400	24,800	16,000			10,500	
60	66.1	22,800	19,200	12,100			7,800	
70	61.5	18,400	15,500	9,500			5,900	
80	56.8	15,200	12,700	7,600			4,500	
90	51.7	12,700	10,600	6,100			3,400	
100	46.3	10,800	9,000	4,900			2,600	
110	40.3	9,300	7,700	4,000			—	
120	33.5	8,000	6,600	3,200			—	
130	25.2	7,000	5,600	2,600			—	
140	12.4	6,100	4,800	2,000			—	

MAIN BOOM CAPACITIES – 120 FT OPEN THROAT TUBE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
		AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
25	79.6	71,600	65,500	44,600	25,400	28,900		
30	77.1	61,000	50,400	34,000	19,000	22,500		
35	74.7	48,700	40,700	27,200	14,900	18,100		
40	72.2	40,400	33,900	22,500	12,000	15,000		
50	67.1	29,700	25,100	16,300	8,200	10,800		
60	61.8	23,100	19,500	12,400	5,900	8,100		
70	56.2	18,700	15,800	9,800	4,300	6,200		
80	50.3	15,500	13,000	7,900	3,100	4,800		
90	43.7	13,000	10,900	6,400	2,200	3,700		
100	36.3	11,100	9,300	5,200	—	2,900		
110	27.2	9,600	8,000	4,300	—	2,200		
120	13.4	8,300	6,800	3,500	—	—		

MAIN BOOM CAPACITIES – 150 FT OPEN THROAT TUBE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
		AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
25	81.7	55,100	55,100	44,300				
30	79.7	52,200	50,000	33,700				
35	77.8	48,400	40,300	26,800				
40	75.8	40,000	33,500	22,100				
50	71.9	29,200	24,600	15,900				
60	67.8	22,700	19,100	12,000				
70	63.6	18,200	15,300	9,300				
80	59.2	15,000	12,600	7,400				
90	54.7	12,600	10,500	5,900				
100	49.9	10,700	8,800	4,800				
110	44.6	9,100	7,500	3,800				
120	38.9	7,900	6,400	3,100				
130	32.4	6,800	5,500	2,400				
140	24.3	5,900	4,700	—				
150	12.0	5,100	4,000	—				



MAIN BOOM CAPACITIES 160 FT OPEN THROAT TUBE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
			AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
30	80.4	47,900	47,900	33,500				
35	78.6	44,000	40,200	26,700				
40	76.7	39,900	33,300	21,900				
50	73.0	29,100	24,500	15,700				
60	69.2	22,500	18,900	11,800				
70	65.4	18,000	15,100	9,200				
80	61.3	14,800	12,400	7,200				
90	57.2	12,400	10,300	5,800				
100	52.8	10,500	8,700	4,600				
110	48.2	9,000	7,300	3,700				
120	43.2	7,700	6,200	2,900				
130	37.6	6,700	5,300	2,200				
140	31.3	5,800	4,500	—				
150	23.5	5,000	3,800	—				
160	11.6	4,300	3,200	—				

MAIN BOOM CAPACITIES – 190 FT OPEN THROAT TUBE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
			AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
30	81.9	32,900	32,900					
35	80.4	32,500	32,500					
40	78.9	30,700	30,700					
50	75.8	25,700	24,000					
60	72.6	19,600	18,400					
70	69.4	16,200	14,600					
80	66.2	13,300	11,900					
90	62.8	11,000	9,800					
100	59.4	9,100	8,100					
110	55.8	7,500	6,800					
120	52.1	6,100	5,700					
130	48.2	5,000	4,800					
140	44.0	4,000	4,000					
150	39.4	3,100	3,100					
160	34.4	2,100	2,100					

MAIN BOOM CAPACITIES – 170 FT OPEN THROAT TUBE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
			AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
30	81.0	42,400	42,400	33,400				
35	79.2	40,300	40,000	26,600				
40	77.5	37,000	33,200	21,800				
50	74.0	28,900	24,300	15,500				
60	70.5	22,300	18,800	11,700				
70	66.9	17,900	15,000	9,000				
80	63.2	14,700	12,200	7,100				
90	59.3	12,200	10,100	5,600				
100	55.3	10,300	8,500	4,400				
110	51.1	8,800	7,200	3,500				
120	46.6	7,500	6,100	2,700				
130	41.8	6,500	5,100	2,100				
140	36.5	5,600	4,400	—				
150	30.3	4,800	3,700	—				
160	22.8	4,100	3,100	—				
170	11.3	3,500	2,500	—				

MAIN BOOM CAPACITIES – 200 FT OPEN THROAT TUBE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
			AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
35	80.9	28,600	28,600					
40	79.4	27,200	27,200					
50	76.5	21,500	21,500					
60	73.5	17,500	17,500					
70	70.5	14,200	14,200					
80	67.4	11,700	11,700					
90	64.3	9,500	9,500					
100	61.1	7,700	7,700					
110	57.8	6,200	6,200					
120	54.3	5,000	5,000					
130	50.7	3,900	3,900					
140	46.9	2,800	2,800					

MAIN BOOM CAPACITIES – 180 FT OPEN THROAT TUBE BOOM								
Load Radius (Ft.)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
			AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	
30	81.5	37,500	37,500					
35	79.9	36,800	36,800					
40	78.2	33,900	33,000					
50	75.0	28,100	24,100					
60	71.6	21,900	18,600					
70	68.2	17,700	14,800					
80	64.8	14,500	12,000					
90	61.2	12,100	10,000					
100	57.5	10,200	8,300					
110	53.6	8,600	7,000					
120	49.6	7,400	5,900					
130	45.3	6,100	5,000					
140	40.6	5,000	4,200					
150	35.4	4,100	3,500					
160	29.5	3,300	2,900					
170	22.1	2,500	2,400					

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Jib Capacities

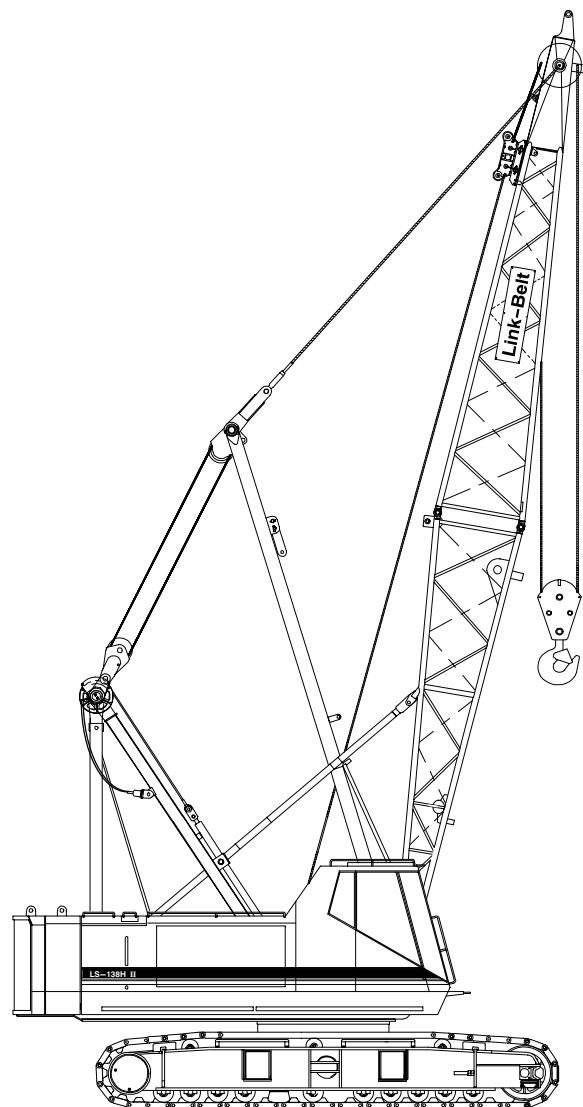
Lattice Boom (HYLAB) Crawler Crane

LS-138H II

80-ton (*72.6 metric ton*)

Angle Boom + Jib

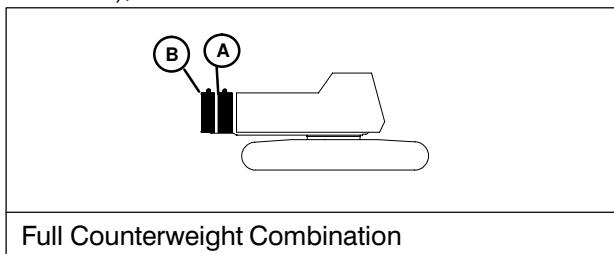
- 40'–140' (12.19 – 42.7 m) Angle Boom with 30' – 60' (9.14 – 18.28 m) of Jib
- 40' – 150' (12.19 – 45.72 m) Angle Boom with 30' (9.14 m) of Jib
- 20' (6.10 m) Open Throat Top Section with 32" (0.81 m) Wide x 24" (0.61) Deep Jib
- With or Without 24' (7.31 m) Live Mast
- Extended / Retracted Side Frames
- Over End Blocked Capacities
- 360 Degree Capacities
- "AB" Counterweight Options
- 20' – 2" (6.15 m) Crawler Length



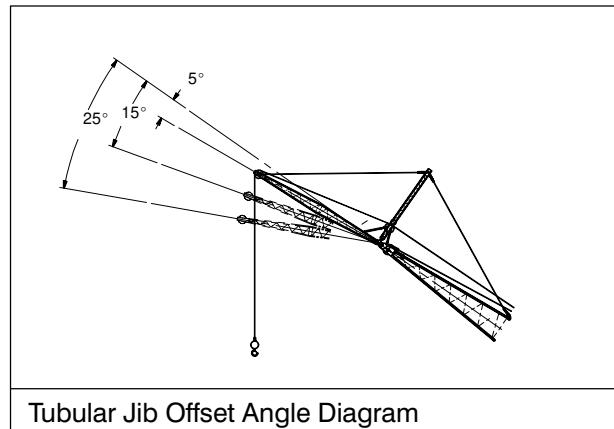
CAUTION: This material is supplied for reference use only. Operator must refer to in-cab Crane Rating Manual to determine allowable machine lifting capacities and operating procedures.

TUBULAR JIB NOTES FOR OPEN THROAT BOOM

1. Capacities are for a LS-138H II crawler crane with AB (50,500 lb) counterweight.
2. Separate capacity charts are listed for 360° and for over end blocked crawler working areas. Verify operating conditions as described on the Working Area Chart found in the general information section of this Crane Rating Manual. Apply the appropriate lift capacity chart based on the working area and the specific operating conditions.
3. Over end blocked capacities can be lifted over either end with the crane standing level on a firm supporting surface. Adequate blocking must be placed under both treadmember sprockets (or idler rollers) at the end that the load is to be lifted to prevent rocking. The ramps supplied with the machine are considered to be adequate blocking.
4. Capacities are for side frames in the extended position only and are based on the crane standing level on a firm supporting surface.
5. Capacities are limited to a LBCE 48" x 48" angle boom with an open throat and a LBCE 12 ton, 24" x 32" cross section jib with a 11'6" high jib mast properly assembled.
6. Two parts of 7/8" Diameter Type "DB" or Type "RB" wire rope are required for maximum lift.
7. Capacities are for 30', 45', and 60' jib lengths only.
8. Maximum boom plus jib combination is 140' + 60' or 150' + 30'. The only jib length available on the 150' open throat boom length is 30'.
9. The least stable condition is over the side.
10. All capacities are listed in pounds and are not more than 75% of the tipping loads. Those capacities followed by an asterisk (*) are governed by factors other than those that would cause a tipping condition.
11. A deduction must be made from the jib capacities for the weight of the following: Main boom hook block or hook ball, jib hook block or hook ball, slings, grapple, load weighing devices (other than those supplied with the crane), etc.



Full Counterweight Combination

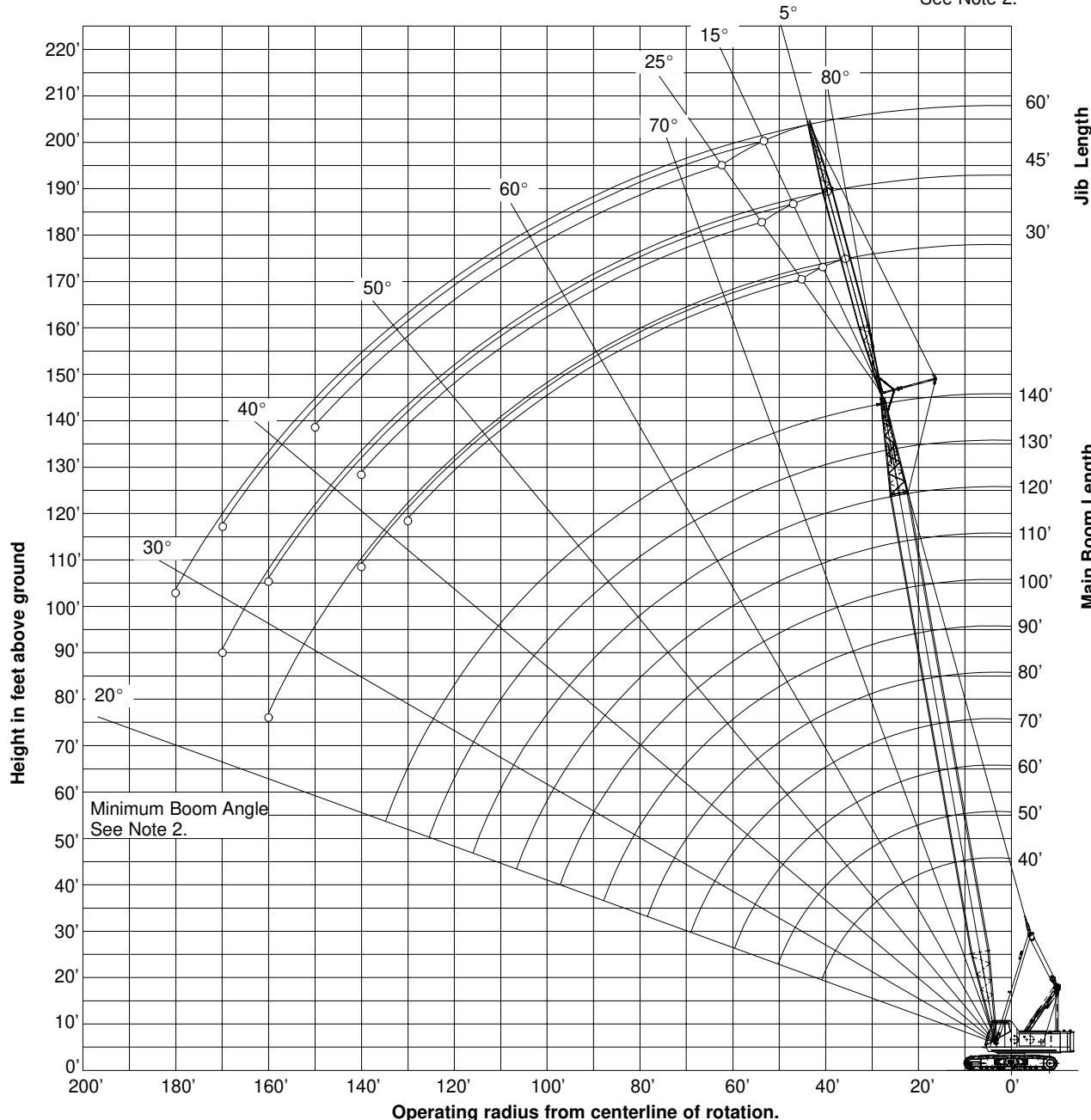


Tubular Jib Offset Angle Diagram

WORKING RANGE DIAGRAM

40' TO 140' MAIN BOOM WITH 30' TO 60' JIB

Maximum Boom Angle
See Note 2.



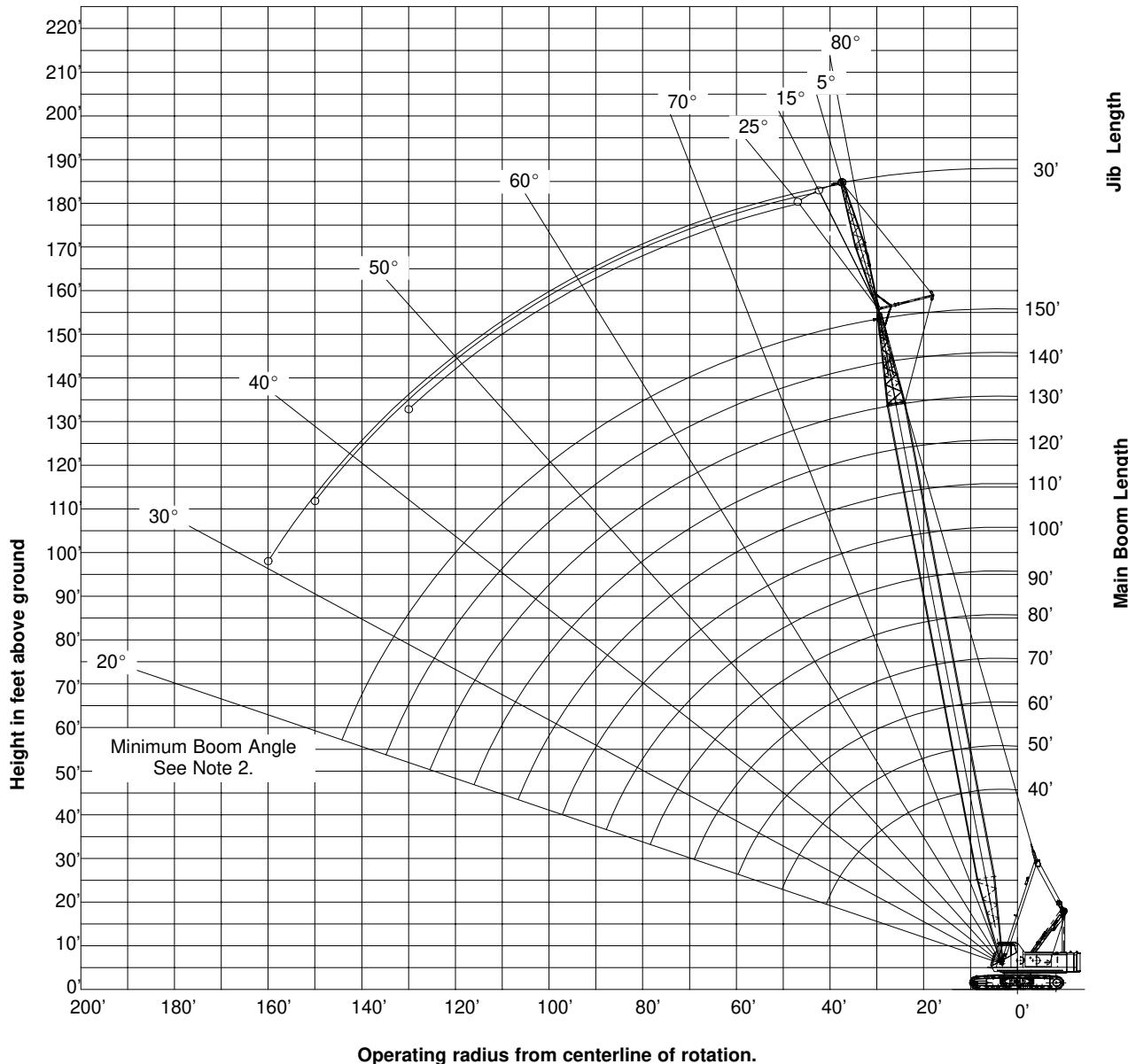
Notes:

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

WORKING RANGE DIAGRAM

40' TO 150' MAIN BOOM WITH 30' JIB

Maximum Boom Angle
See Note 2.



Notes:

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

LS-138H II - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
40	30	18.4	80.0	76.0	24,000 *	24,000 *									18.4	
40	30	19	79.4	75.9	24,000 *	24,000 *									19	
40	30	20	78.6	75.6	24,000 *	24,000 *									20	
40	30	25	74.5	74.2	24,000 *	24,000 *	78.5	73.8	24,000 *	24,000 *					25	
40	30	30	70.2	72.4	24,000 *	24,000 *	74.2	72.0	24,000 *	24,000 *	78.0	70.8	19,700 *	19,700 *	30	
40	30	35	65.9	70.2	24,000 *	24,000 *	69.8	69.8	23,600 *	23,600 *	73.5	68.5	17,700 *	17,700 *	35	
40	30	40	61.3	67.5	24,000 *	24,000 *	65.2	67.1	21,000 *	21,000 *	68.9	65.7	16,900 *	16,900 *	40	
40	30	50	51.5	60.3	20,900 *	20,900 *	55.3	59.8	17,300 *	17,300 *	58.7	58.3	14,700 *	14,700 *	50	
40	30	60	39.9	49.8	17,300 *	17,300 *	43.5	49.2	16,200 *	16,200 *	46.5	47.2	13,200 *	13,200 *	60	
40	45	22.2	80.0	90.2	24,000 *	24,000 *									22.2	
40	45	25	78.1	89.5	24,000 *	24,000 *									25	
40	45	30	74.7	88.0	24,000 *	24,000 *	79.7	87.4	19,200 *	19,200 *					30	
40	45	35	71.2	86.2	21,700 *	21,700 *	76.2	85.6	17,300 *	17,300 *					35	
40	45	40	67.6	84.0	19,000 *	19,000 *	72.5	83.4	16,600 *	16,600 *	77.3	81.7	12,500 *	12,500 *	40	
40	45	50	60.0	78.3	16,600 *	16,600 *	64.9	77.8	13,500 *	13,500 *	69.5	75.9	10,500 *	10,500 *	50	
40	45	60	51.8	70.8	13,700 *	13,700 *	56.6	70.2	11,400 *	11,400 *	61.0	68.1	9,200 *	9,200 *	60	
40	45	70	42.3	60.5	11,600 *	11,600 *	47.0	59.8	10,000 *	10,000 *	51.1	57.3	8,200 *	8,200 *	70	
40	45	80	30.4	45.4	10,100 *	10,100 *									80	
40	60	26.1	80.0	104.8	24,000 *	24,000 *									26.1	
40	60	30	77.7	103.8	21,200 *	21,200 *									30	
40	60	35	74.8	102.2	18,200 *	18,200 *									35	
40	60	40	71.8	100.4	17,300 *	17,300 *	77.5	99.8	13,700 *	13,700 *					40	
40	60	50	65.6	95.9	13,700 *	13,700 *	71.3	95.3	11,100 *	11,100 *	76.8	93.3	8,500 *	8,500 *	50	
40	60	60	59.1	89.9	11,300 *	11,300 *	64.7	89.3	9,300 *	9,300 *	70.0	87.1	7,300 *	7,300 *	60	
40	60	70	52.0	82.1	9,500 *	9,500 *	57.5	81.5	8,000 *	8,000 *	62.7	79.2	6,400 *	6,400 *	70	
40	60	80	44.0	72.1	8,200 *	8,200 *	49.4	71.4	7,100 *	7,100 *	54.3	68.7	5,800 *	5,800 *	80	
40	60	90	34.5	58.4	7,300 *	7,300 *	39.7	57.5	6,300 *	6,300 *					90	

LS-138H II - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
50	30	20.1	80.0	85.9	24,000 *	24,000 *									20.1	
50	30	25	76.4	84.7	24,000 *	24,000 *									25	
50	30	30	72.8	83.1	24,000 *	24,000 *	76.3	82.6	24,000 *	24,000 *	79.6	81.3	20,500 *	20,500 *	30	
50	30	35	69.0	81.2	24,000 *	24,000 *	72.5	80.7	24,000 *	24,000 *	75.8	79.4	18,600 *	18,600 *	35	
50	30	40	65.2	78.9	24,000 *	24,000 *	68.6	78.4	22,800 *	22,800 *	71.8	77.0	17,400 *	17,400 *	40	
50	30	50	57.0	72.9	23,600 *	23,600 *	60.4	72.4	18,900 *	18,900 *	63.4	70.9	15,600 *	15,600 *	50	
50	30	60	47.9	64.7	19,500 *	19,500 *	51.2	64.2	17,400 *	17,400 *	54.0	62.4	14,000 *	14,000 *	60	
50	30	70	37.2	53.1	17,400 *	16,700	40.2	52.4	15,600 *	15,700 *					70	
50	45	24.0	80.0	100.1	24,000 *	24,000 *									24.0	
50	45	25	79.4	99.8	24,000 *	24,000 *									25	
50	45	30	76.3	98.5	24,000 *	24,000 *									30	
50	45	35	73.2	96.8	23,500 *	23,500 *	77.7	96.2	17,700 *	17,700 *					35	
50	45	40	70.0	94.9	20,700 *	20,700 *	74.5	94.2	17,300 *	17,300 *	78.8	92.4	13,000 *	13,000 *	40	
50	45	50	63.5	90.0	17,300 *	17,300 *	67.9	89.4	14,500 *	14,500 *	72.0	87.4	11,100 *	11,100 *	50	
50	45	60	56.4	83.6	15,100 *	15,100 *	60.8	82.9	12,400 *	12,400 *	64.8	80.8	9,700 *	9,700 *	60	
50	45	70	48.7	75.2	12,900 *	12,900 *	53.0	74.4	10,800 *	10,800 *	56.7	72.0	8,700 *	8,700 *	70	
50	45	80	39.9	64.0	11,200 *	11,200 *	43.9	63.1	9,600 *	9,600 *	47.4	60.3	7,900 *	7,900 *	80	
50	45	90	28.7	47.8	10,000 *	10,000 *									90	
50	60	27.9	80.0	114.6	24,000 *	24,000 *									27.9	
50	60	30	78.8	114.1	22,600 *	22,600 *									30	
50	60	35	76.2	112.7	19,500 *	19,500 *									35	
50	60	40	73.5	111.1	17,300 *	17,300 *	78.7	110.4	14,400 *	14,400 *					40	
50	60	50	68.0	107.0	14,900 *	14,900 *	73.1	106.3	11,800 *	11,800 *	78.1	104.2	8,800 *	8,800 *	50	
50	60	60	62.2	101.7	12,300 *	12,300 *	67.3	101.0	9,900 *	9,900 *	72.1	98.7	7,600 *	7,600 *	60	
50	60	70	56.0	95.0	10,400 *	10,400 *	61.1	94.3	8,600 *	8,600 *	65.8	91.8	6,700 *	6,700 *	70	
50	60	80	49.3	86.5	9,000 *	9,000 *	54.3	85.8	7,600 *	7,600 *	58.8	83.0	6,100 *	6,100 *	80	
50	60	90	41.8	75.7	7,900 *	7,900 *	46.6	74.8	6,800 *	6,800 *	50.9	71.6	5,500 *	5,500 *	90	
50	60	100	32.7	61.1	7,100 *	7,100 *	37.3	59.9	6,200 *	6,200 *					100	

LS-138H II - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
60	30	21.8	80.0	95.7	24,000 *	24,000 *									21.8	
60	30	25	77.9	95.0	24,000 *	24,000 *									25	
60	30	30	74.7	93.6	24,000 *	24,000 *	77.8	93.1	24,000 *	24,000 *					30	
60	30	35	71.4	91.9	24,000 *	24,000 *	74.5	91.4	24,000 *	24,000 *	77.5	90.0	19,400 *	19,400 *	35	
60	30	40	68.1	89.9	24,000 *	24,000 *	71.1	89.4	24,000 *	24,000 *	74.0	88.0	17,900 *	17,900 *	40	
60	30	50	61.0	84.8	24,000 *	24,000 *	64.1	84.3	20,400 *	20,400 *	66.8	82.7	16,300 *	16,300 *	50	
60	30	60	53.5	78.0	21,700 *	20,100	56.4	77.4	17,600 *	17,600 *	59.0	75.7	14,700 *	14,700 *	60	
60	30	70	45.0	68.8	18,600 *	16,400	47.8	68.2	17,100 *	16,600	50.2	66.2	13,500 *	13,500 *	70	
60	30	80	34.9	56.2	16,000 *	13,700	37.6	55.3	15,300 *	13,800					80	
60	45	25.7	80.0	109.9	24,000 *	24,000 *									25.7	
60	45	30	77.6	108.9	24,000 *	24,000 *									30	
60	45	35	74.8	107.4	24,000 *	24,000 *	78.9	106.7	18,500 *	18,500 *					35	
60	45	40	72.0	105.7	22,400 *	22,400 *	76.0	104.9	17,300 *	17,300 *	79.9	103.0	13,300 *	13,300 *	40	
60	45	50	66.2	101.3	18,000 *	18,000 *	70.2	100.6	15,400 *	15,400 *	73.9	98.5	11,500 *	11,500 *	50	
60	45	60	60.0	95.7	16,600 *	16,600 *	63.9	94.9	13,200 *	13,200 *	67.6	92.8	10,100 *	10,100 *	60	
60	45	70	53.4	88.5	14,100 *	14,100 *	57.3	87.7	11,600 *	11,600 *	60.8	85.3	9,100 *	9,100 *	70	
60	45	80	46.2	79.3	12,300 *	12,300 *	49.9	78.4	10,300 *	10,300 *	53.2	75.8	8,300 *	8,300 *	80	
60	45	90	37.8	67.2	10,900 *	10,900 *	41.4	66.2	9,400 *	9,400 *					90	
60	45	100	27.2	50.1	9,900 *	9,900 *									100	
60	60	29.6	80.0	124.5	24,000 *	24,000 *									29.6	
60	60	30	79.8	124.4	23,900 *	23,900 *									30	
60	60	35	77.4	123.1	20,700 *	20,700 *									35	
60	60	40	74.9	121.6	18,200 *	18,200 *	79.7	120.8	14,900 *	14,900 *					40	
60	60	50	69.9	117.9	16,100 *	16,100 *	74.6	117.1	12,300 *	12,300 *	79.2	114.9	9,100 *	9,100 *	50	
60	60	60	64.7	113.2	13,300 *	13,300 *	69.4	112.4	10,500 *	10,500 *	73.8	110.0	7,900 *	7,900 *	60	
60	60	70	59.2	107.2	11,300 *	11,300 *	63.9	106.4	9,100 *	9,100 *	68.2	103.9	7,000 *	7,000 *	70	
60	60	80	53.4	99.8	9,800 *	9,800 *	58.0	99.0	8,100 *	8,100 *	62.2	96.2	6,300 *	6,300 *	80	
60	60	90	47.0	90.7	8,600 *	8,600 *	51.5	89.8	7,200 *	7,200 *	55.5	86.7	5,800 *	5,800 *	90	
60	60	100	39.9	79.1	7,700 *	7,700 *	44.2	78.1	6,600 *	6,600 *	47.9	74.5	5,400 *	5,400 *	100	
60	60	110	31.2	63.7	7,000 *	7,000 *	35.3	62.3	6,100 *	6,100 *					110	

LS-138H II - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
70	30	23.6	80.0	105.6	24,000 *	24,000 *	79.1	103.5	24,000 *	24,000 *	78.8	100.5	20,000 *	20,000 *	23.6	
70	30	25	79.2	105.2	24,000 *	24,000 *									25	
70	30	30	76.3	104.0	24,000 *	24,000 *	79.1	103.5	24,000 *	24,000 *	78.8	100.5	20,000 *	20,000 *	30	
70	30	35	73.3	102.5	24,000 *	24,000 *	76.1	102.0	24,000 *	24,000 *	75.7	98.7	18,500 *	18,500 *	35	
70	30	40	70.3	100.7	24,000 *	24,000 *	73.1	100.2	24,000 *	24,000 *	75.4	98.7	18,500 *	18,500 *	40	
70	30	50	64.1	96.2	24,000 *	24,000 *	66.9	95.7	21,800 *	21,800 *	69.4	94.1	17,000 *	17,000 *	50	
70	30	60	57.6	90.3	23,000 *	19,900	60.3	89.7	18,800 *	18,800 *	62.7	88.0	15,400 *	15,400 *	60	
70	30	70	50.5	82.7	19,000	16,200	53.1	82.0	17,300 *	16,400	55.4	80.2	14,200 *	14,200 *	70	
70	30	80	42.6	72.7	15,900	13,400	45.1	72.0	16,000	13,600	47.1	69.8	13,200 *	13,200 *	80	
70	30	90	33.0	59.1	13,100 *	11,300	35.4	58.1	13,500	11,400					90	
70	45	27.5	80.0	119.8	24,000 *	24,000 *									27.5	
70	45	30	78.7	119.2	24,000 *	24,000 *									30	
70	45	35	76.2	117.8	24,000 *	24,000 *	79.9	117.0	19,200 *	19,200 *					35	
70	45	40	73.6	116.3	23,900 *	23,900 *	77.3	115.5	17,400 *	17,400 *					40	
70	45	50	68.3	112.3	19,400 *	19,400 *	72.0	111.6	16,300 *	16,300 *	75.4	109.5	11,900 *	11,900 *	50	
70	45	60	62.9	107.3	17,300 *	17,300 *	66.5	106.5	14,000 *	14,000 *	69.8	104.3	10,600 *	10,600 *	60	
70	45	70	57.1	101.0	15,300 *	15,400 *	60.6	100.2	12,300 *	12,300 *	63.8	97.8	9,500 *	9,500 *	70	
70	45	80	50.8	93.1	13,400 *	13,400 *	54.3	92.2	11,000 *	11,000 *	57.4	89.7	8,700 *	8,700 *	80	
70	45	90	44.0	83.2	11,900 *	11,600	47.3	82.2	10,000 *	10,000 *	50.2	79.3	8,100 *	8,100 *	90	
70	45	100	36.0	70.3	10,700 *	9,900	39.2	69.2	9,200 *	9,200 *					100	
70	60	31.3	80.0	134.3	24,000 *	24,000 *									31.3	
70	60	35	78.3	133.5	21,800 *	21,800 *									35	
70	60	40	76.1	132.1	19,300 *	19,300 *									40	
70	60	50	71.5	128.7	17,200 *	17,200 *	75.9	127.8	12,900 *	12,900 *					50	
70	60	60	66.8	124.4	14,300 *	14,300 *	71.1	123.5	11,000 *	11,000 *	75.2	121.0	8,200 *	8,200 *	60	
70	60	70	61.8	119.0	12,100 *	12,100 *	66.1	118.1	9,600 *	9,600 *	70.1	115.5	7,300 *	7,300 *	70	
70	60	80	56.7	112.4	10,500 *	10,600 *	60.9	111.6	8,500 *	8,500 *	64.8	108.7	6,600 *	6,600 *	80	
70	60	90	51.1	104.5	9,300 *	9,300 *	55.3	103.5	7,700 *	7,700 *	59.0	100.5	6,100 *	6,100 *	90	
70	60	100	45.0	94.7	8,300 *	8,300 *	49.1	93.6	7,000 *	7,000 *	52.7	90.3	5,600 *	5,600 *	100	
70	60	110	38.2	82.4	7,500 *	7,500 *	42.1	81.2	6,400 *	6,400 *					110	
70	60	120	29.9	66.2	6,900 *	6,900 *									120	

Link Belt Construction Equipment Company

LS-138H II Angle Boom - Tube Jib

Angle Boom Jib Charts

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H7P0013

05/03/99

LS-138H II - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
80	30	25.3	80.0	115.4	24,000 *	24,000 *									25.3	
80	30	30	77.5	114.3	24,000 *	24,000 *									30	
80	30	35	74.9	113.0	24,000 *	24,000 *	77.4	112.4	24,000 *	24,000 *	79.8	110.9	20,600 *	20,600 *	35	
80	30	40	72.2	111.4	24,000 *	24,000 *	74.7	110.8	24,000 *	24,000 *	77.1	109.3	19,100 *	19,100 *	40	
80	30	50	66.6	107.4	24,000 *	24,000 *	69.1	106.8	23,100 *	23,100 *	71.4	105.2	17,300 *	17,300 *	50	
80	30	60	60.8	102.1	23,200	19,600	63.3	101.5	20,000 *	19,900	65.5	99.8	16,000 *	16,000 *	60	
80	30	70	54.7	95.5	18,800	15,900	57.1	94.9	17,700 *	16,200	59.2	93.0	14,700 *	14,700 *	70	
80	30	80	48.0	87.1	15,600	13,200	50.3	86.4	15,800	13,300	52.3	84.4	13,700 *	13,500	80	
80	30	90	40.5	76.3	13,200	11,100	42.7	75.5	13,300	11,200					90	
80	30	100	31.4	61.8	10,700 *	9,400									100	
80	45	29.2	80.0	129.6	24,000 *	24,000 *									29.2	
80	45	30	79.6	129.4	24,000 *	24,000 *									30	
80	45	35	77.3	128.2	24,000 *	24,000 *									35	
80	45	40	74.9	126.8	24,000 *	24,000 *	78.3	125.9	18,100 *	18,100 *					40	
80	45	50	70.1	123.2	20,700 *	20,700 *	73.5	122.4	17,100 *	17,100 *	76.7	120.2	12,200 *	12,200 *	50	
80	45	60	65.2	118.6	17,400 *	17,400 *	68.5	117.8	14,700 *	14,700 *	71.6	115.6	10,900 *	10,900 *	60	
80	45	70	60.0	113.0	16,500 *	16,200	63.3	112.1	13,000 *	13,000 *	66.3	109.8	9,900 *	9,900 *	70	
80	45	80	54.5	106.0	14,400 *	13,400	57.8	105.2	11,600 *	11,600 *	60.6	102.6	9,100 *	9,100 *	80	
80	45	90	48.6	97.5	12,800 *	11,300	51.8	96.6	10,600 *	10,600 *	54.5	93.8	8,400 *	8,400 *	90	
80	45	100	42.0	86.9	11,500 *	9,700	45.1	85.8	9,700 *	9,700 *	47.6	82.7	7,900 *	7,900 *	100	
80	45	110	34.4	73.3	9,800 *	8,300	37.3	72.0	9,000 *	8,400					110	
80	60	33.1	80.0	144.2	23,700 *	23,700 *									33.1	
80	60	35	79.2	143.7	22,800 *	22,800 *									35	
80	60	40	77.1	142.5	20,300 *	20,300 *									40	
80	60	50	72.9	139.3	17,300 *	17,300 *	76.9	138.4	13,400 *	13,400 *					50	
80	60	60	68.5	135.4	15,200 *	15,200 *	72.6	134.5	11,500 *	11,500 *	76.4	131.9	8,400 *	8,400 *	60	
80	60	70	64.0	130.5	13,000 *	13,000 *	68.0	129.6	10,100 *	10,100 *	71.8	126.8	7,500 *	7,500 *	70	
80	60	80	59.3	124.5	11,300 *	11,300 *	63.3	123.6	9,000 *	9,000 *	66.9	120.7	6,800 *	6,900 *	80	
80	60	90	54.4	117.4	10,000 *	10,000 *	58.3	116.5	8,100 *	8,100 *	61.8	113.4	6,300 *	6,300 *	90	
80	60	100	49.1	108.9	8,900 *	8,900 *	52.9	107.8	7,400 *	7,400 *	56.3	104.5	5,800 *	5,800 *	100	

LS-138H II - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
80	60	110	43.3	98.5	8,100 *	8,100 *	47.0	97.3	6,800 *	6,800 *	50.2	93.6	5,500 *	5,500 *	110	
80	60	120	36.7	85.6	7,400 *	7,400 *	40.3	84.2	6,300 *	6,300 *					120	
80	60	130	28.7	68.6	6,800 *	6,400									130	
90	30	27.0	80.0	125.3	24,000 *	24,000 *									27.0	
90	30	30	78.6	124.6	24,000 *	24,000 *									30	
90	30	35	76.1	123.4	24,000 *	24,000 *	78.5	122.8	24,000 *	24,000 *					35	
90	30	40	73.7	121.9	24,000 *	24,000 *	76.0	121.3	24,000 *	24,000 *	78.2	119.8	19,700 *	19,700 *	40	
90	30	50	68.7	118.3	24,000 *	24,000 *	71.0	117.7	23,900 *	23,800 *	73.1	116.1	17,400 *	17,400 *	50	
90	30	60	63.5	113.6	23,000	19,400	65.7	113.0	21,100 *	19,700	67.8	111.3	16,500 *	16,500 *	60	
90	30	70	58.0	107.7	18,500	15,700	60.2	107.1	18,700	15,900	62.2	105.3	15,300 *	15,300 *	70	
90	30	80	52.2	100.4	15,400	12,900	54.4	99.7	15,600	13,100	56.2	97.8	14,200 *	13,300	80	
90	30	90	45.8	91.3	12,900	10,800	47.9	90.6	13,100	11,000	49.7	88.4	13,200	11,100	90	
90	30	100	38.6	79.8	11,000	9,200	40.7	78.9	11,100	9,300					100	
90	30	110	30.0	64.5	8,700 *	7,800									110	
90	45	30.9	80.0	139.5	24,000 *	24,000 *									30.9	
90	45	35	78.2	138.5	24,000 *	24,000 *									35	
90	45	40	76.1	137.2	24,000 *	24,000 *	79.2	136.3	18,700 *	18,700 *					40	
90	45	50	71.7	133.9	21,000 *	21,000 *	74.8	133.1	17,300 *	17,300 *	77.8	130.8	12,600 *	12,600 *	50	
90	45	60	67.1	129.8	18,300 *	18,300 *	70.2	128.9	15,400 *	15,400 *	73.1	126.6	11,300 *	11,300 *	60	
90	45	70	62.4	124.6	16,800 *	16,000	65.5	123.7	13,600 *	13,600 *	68.3	121.3	10,200 *	10,200 *	70	
90	45	80	57.5	118.4	15,000 *	13,200	60.5	117.5	12,200 *	12,200 *	63.2	114.9	9,400 *	9,400 *	80	
90	45	90	52.3	110.8	13,200	11,100	55.2	109.9	11,100 *	11,100 *	57.8	107.2	8,700 *	8,700 *	90	
90	45	100	46.6	101.7	11,300	9,400	49.5	100.7	10,200 *	9,600	52.0	97.7	8,200 *	8,200 *	100	
90	45	110	40.3	90.5	9,700	8,000	43.1	89.3	9,500 *	8,200					110	
90	45	120	33.0	76.2	8,000 *	6,900									120	
90	60	34.8	80.0	154.0	22,800 *	22,800 *									34.8	
90	60	35	79.9	154.0	22,700 *	22,700 *									35	
90	60	40	78.0	152.8	20,800 *	20,800 *									40	
90	60	50	74.0	149.9	17,400 *	17,400 *	77.8	148.9	13,800 *	13,800 *	77.4	142.6	8,600 *	8,600 *	50	
90	60	60	70.0	146.2	16,100 *	16,000 *	73.8	145.3	11,900 *	12,000 *					60	

LS-138H II - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
90	60	70	65.9	141.7	13,800 *	13,800 *	69.6	140.7	10,500 *	10,500 *	73.1	138.0	7,700 *	7,700 *	70	
90	60	80	61.6	136.3	12,000 *	12,000 *	65.3	135.3	9,400 *	9,400 *	68.7	132.4	7,100 *	7,100 *	80	
90	60	90	57.1	129.9	10,600 *	10,600 *	60.8	128.8	8,500 *	8,500 *	64.1	125.8	6,500 *	6,500 *	90	
90	60	100	52.4	122.2	9,500 *	9,500 *	56.0	121.1	7,700 *	7,700 *	59.2	117.9	6,000 *	6,000 *	100	
90	60	110	47.3	113.1	8,600 *	8,200	50.8	112.0	7,100 *	7,100 *	53.9	108.4	5,700 *	5,700 *	110	
90	60	120	41.7	102.2	7,900 *	7,100	45.1	100.9	6,600 *	6,600 *	48.0	96.9	5,400 *	5,400 *	120	
90	60	130	35.3	88.6	7,300 *	6,200	38.6	87.1	6,200 *	6,200 *					130	
90	60	140	27.7	70.9	5,600 *	5,400									140	
100	30	28.8	80.0	135.1	24,000 *	24,000 *									28.8	
100	30	30	79.4	134.8	24,000 *	24,000 *									30	
100	30	35	77.2	133.7	24,000 *	24,000 *	79.4	133.1	24,000 *	24,000 *					35	
100	30	40	75.0	132.4	24,000 *	24,000 *	77.1	131.8	24,000 *	24,000 *	79.2	130.2	20,100 *	20,100 *	40	
100	30	50	70.4	129.0	24,000 *	24,000 *	72.5	128.4	23,800 *	23,800 *	74.5	126.8	17,900 *	17,900 *	50	
100	30	60	65.6	124.8	22,700	19,100	67.8	124.1	21,100 *	19,500	69.7	122.5	17,000 *	17,000 *	60	
100	30	70	60.7	119.4	18,200	15,400	62.8	118.8	18,500	15,700	64.6	117.0	15,800 *	15,800 *	70	
100	30	80	55.5	112.9	15,100	12,700	57.6	112.3	15,300	12,900	59.3	110.4	14,700 *	13,100	80	
100	30	90	50.0	105.0	12,700	10,500	52.0	104.3	12,800	10,700	53.6	102.3	13,000	10,900	90	
100	30	100	43.9	95.3	10,700	8,900	45.8	94.5	10,900	9,000	47.4	92.2	11,000	9,100	100	
100	30	110	37.1	83.1	9,200 *	7,500	38.9	82.2	9,300	7,600					110	
100	30	120	28.8	67.0	7,000 *	6,400									120	
100	45	32.7	80.0	149.3	24,000 *	24,000 *									32.7	
100	45	35	79.0	148.8	24,000 *	24,000 *									35	
100	45	40	77.0	147.6	24,000 *	24,000 *									40	
100	45	50	73.0	144.5	21,100 *	21,100 *	75.9	143.6	17,300 *	17,300 *	78.7	141.4	12,800 *	12,800 *	50	
100	45	60	68.8	140.7	18,300 *	18,400 *	71.7	139.8	16,100 *	16,100 *	74.4	137.5	11,600 *	11,600 *	60	
100	45	70	64.5	136.0	16,900 *	15,700	67.3	135.1	14,300 *	14,300 *	70.0	132.7	10,500 *	10,500 *	70	
100	45	80	60.0	130.3	15,200 *	12,900	62.8	129.4	12,800 *	12,800 *	65.4	126.8	9,700 *	9,700 *	80	
100	45	90	55.3	123.5	12,900	10,800	58.1	122.6	11,700 *	11,100	60.5	119.9	9,000 *	9,000 *	90	
100	45	100	50.3	115.4	11,000	9,100	53.0	114.4	10,700 *	9,300	55.4	111.6	8,500 *	8,500 *	100	
100	45	110	44.9	105.7	9,400	7,800	47.5	104.6	9,600	8,000	49.7	101.5	8,000 *	8,000 *	110	
100	45	120	38.8	93.9	8,200	6,700	41.4	92.6	8,300	6,800					120	
100	45	130	31.8	78.9	6,500 *	5,700									130	

Link Belt Construction Equipment Company

LS-138H II Angle Boom - Tube Jib

Angle Boom Jib Charts

LS-138H II - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
100	60	36.5	80.0	163.9	22,000 *	22,000 *									36.5	
100	60	40	78.7	163.1	20,700 *	20,700 *									40	
100	60	50	75.1	160.4	17,800 *	17,800 *	78.6	159.4	14,200 *	14,200 *					50	
100	60	60	71.3	157.0	16,100 *	16,100 *	74.9	155.9	12,400 *	12,400 *	78.2	153.2	8,800 *	8,800 *	60	
100	60	70	67.5	152.8	14,300 *	14,200 *	71.0	151.8	10,900 *	10,900 *	74.3	148.9	7,900 *	7,900 *	70	
100	60	80	63.5	147.8	12,700 *	12,800 *	67.0	146.8	9,800 *	9,800 *	70.2	143.8	7,300 *	7,300 *	80	
100	60	90	59.4	141.9	11,300 *	11,000	62.9	140.8	8,900 *	8,900 *	66.0	137.8	6,700 *	6,700 *	90	
100	60	100	55.1	134.9	10,100 *	9,300	58.5	133.9	8,100 *	8,100 *	61.6	130.6	6,200 *	6,200 *	100	
100	60	110	50.6	126.8	9,200 *	7,900	53.9	125.6	7,500 *	7,500 *	56.8	122.2	5,800 *	5,800 *	110	
100	60	120	45.7	117.2	8,300	6,800	48.9	115.9	6,900 *	6,900 *	51.7	112.2	5,500 *	5,500 *	120	
100	60	130	40.3	105.7	7,300	5,900	43.4	104.3	6,500 *	6,100	46.0	100.1	5,300 *	5,300 *	130	
100	60	140	34.1	91.5	5,900 *	5,100	37.2	89.9	6,100 *	5,200					140	
100	60	150	26.7	73.1	4,400 *	4,400 *									150	
110	30	30.5	80.0	144.9	24,000 *	24,000 *									30.5	
110	30	35	78.1	144.0	24,000 *	24,000 *									35	
110	30	40	76.0	142.7	24,000 *	24,000 *	78.1	142.1	24,000 *	24,000 *					40	
110	30	50	71.8	139.7	24,000 *	24,000 *	73.8	139.0	23,700 *	23,700 *	75.7	137.4	18,400 *	18,400 *	50	
110	30	60	67.5	135.7	22,500	18,800	69.4	135.1	21,100 *	19,200	71.2	133.4	17,300 *	17,300 *	60	
110	30	70	63.0	130.9	18,000	15,200	64.9	130.3	18,300	15,500	66.7	128.5	16,200 *	15,700	70	
110	30	80	58.3	125.0	14,900	12,400	60.2	124.4	15,100	12,600	61.9	122.5	15,200 *	12,800	80	
110	30	90	53.3	118.0	12,400	10,300	55.2	117.3	12,600	10,500	56.8	115.3	12,800	10,600	90	
110	30	100	48.0	109.5	10,500	8,600	49.9	108.7	10,600	8,800	51.4	106.6	10,800	8,900	100	
110	30	110	42.2	99.1	8,900	7,300	44.0	98.3	9,100	7,400	45.4	95.9	9,200	7,500	110	
110	30	120	35.6	86.3	7,400 *	6,200	37.3	85.3	7,700 *	6,300					120	
110	30	130	27.7	69.4	5,500 *	5,200									130	

LS-138H II - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
110	45	34.4	80.0	159.2	24,000 *	24,000 *									34.4	
110	45	35	79.8	159.0	24,000 *	24,000 *									35	
110	45	40	77.9	157.9	24,000 *	24,000 *									40	
110	45	50	74.1	155.1	21,100 *	21,100 *	76.8	154.1	17,100 *	17,000 *	79.4	151.8	13,100 *	13,100 *	50	
110	45	60	70.2	151.5	18,400 *	18,400 *	72.9	150.6	16,700 *	16,700 *	75.5	148.2	11,800 *	11,800 *	60	
110	45	70	66.2	147.1	17,000 *	15,400	68.9	146.2	14,900 *	14,900 *	71.4	143.8	10,800 *	10,800 *	70	
110	45	80	62.1	141.9	15,100	12,600	64.8	141.0	13,400 *	13,000	67.2	138.4	10,000 *	10,000 *	80	
110	45	90	57.8	135.8	12,700	10,500	60.5	134.8	12,200 *	10,800	62.8	132.1	9,300 *	9,300 *	90	
110	45	100	53.3	128.5	10,700	8,800	55.9	127.5	11,000	9,100	58.1	124.6	8,700 *	8,700 *	100	
110	45	110	48.5	119.9	9,200	7,500	51.0	118.8	9,400	7,700	53.2	115.8	8,300 *	7,900	110	
110	45	120	43.3	109.6	7,900	6,400	45.8	108.4	8,100	6,600	47.7	105.1	7,900 *	6,700	120	
110	45	130	37.5	97.2	6,700 *	5,500	39.8	95.9	7,000 *	5,600					130	
110	45	140	30.7	81.5	5,100 *	4,700									140	
110	60	38.3	80.0	173.7	21,300 *	21,300 *									38.3	
110	60	40	79.4	173.3	20,600 *	20,700 *									40	
110	60	50	76.0	170.8	17,700 *	17,700 *	79.3	169.7	14,600 *	14,600 *					50	
110	60	60	72.5	167.6	16,200 *	16,200 *	75.8	166.5	12,800 *	12,800 *	79.0	163.7	8,900 *	8,900 *	60	
110	60	70	68.9	163.7	14,300 *	14,300 *	72.2	162.6	11,300 *	11,300 *	75.3	159.8	8,100 *	8,100 *	70	
110	60	80	65.2	159.1	12,900 *	12,800 *	68.5	158.0	10,200 *	10,200 *	71.5	155.0	7,400 *	7,500 *	80	
110	60	90	61.4	153.6	11,600 *	10,700	64.7	152.5	9,200 *	9,200 *	67.6	149.4	6,900 *	6,900 *	90	
110	60	100	57.5	147.2	10,600 *	9,000	60.7	146.1	8,400 *	8,400 *	63.6	142.9	6,400 *	6,400 *	100	
110	60	110	53.3	139.8	9,300	7,700	56.5	138.7	7,800 *	7,800 *	59.3	135.3	6,000 *	6,000 *	110	
110	60	120	48.9	131.2	8,100	6,500	52.0	130.0	7,200 *	6,800	54.7	126.3	5,700 *	5,700 *	120	
110	60	130	44.2	121.1	7,000	5,600	47.2	119.8	6,800 *	5,800	49.8	115.8	5,400 *	5,400 *	130	
110	60	140	39.0	109.1	6,000 *	4,800	41.9	107.6	6,300	5,000					140	
110	60	150	33.0	94.4	4,700 *	4,100	35.9	92.6	5,100 *	4,300					150	
110	60	160	25.9	75.3	3,300 *	3,300 *									160	

LS-138H II - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
120	30	32.3	80.0	154.8	24,000 *	24,000 *									32.3	
120	30	35	78.9	154.2	24,000 *	24,000 *									35	
120	30	40	77.0	153.1	24,000 *	24,000 *	78.9	152.4	24,000 *	24,000 *					40	
120	30	50	73.1	150.2	24,000 *	24,000 *	74.9	149.6	23,700 *	23,700 *	76.7	147.9	18,800 *	18,800 *	50	
120	30	60	69.0	146.6	22,200	18,600	70.9	146.0	21,000 *	19,000	72.6	144.3	17,200 *	17,100 *	60	
120	30	70	64.9	142.1	17,700	14,900	66.7	141.5	18,000	15,200	68.4	139.7	16,600 *	15,500	70	
120	30	80	60.6	136.8	14,600	12,100	62.4	136.1	14,900	12,400	64.0	134.3	15,100	12,600	80	
120	30	90	56.1	130.4	12,100	10,000	57.9	129.7	12,400	10,200	59.4	127.7	12,600	10,400	90	
120	30	100	51.4	122.8	10,200	8,300	53.1	122.0	10,400	8,500	54.6	120.0	10,600	8,700	100	
120	30	110	46.3	113.7	8,700	7,000	48.0	112.9	8,800	7,100	49.3	110.7	8,900	7,300	110	
120	30	120	40.7	102.8	7,400	5,900	42.3	101.9	7,500	6,000					120	
120	30	130	34.4	89.3	5,800 *	5,000	35.9	88.3	6,000 *	5,000					130	
120	30	140	26.7	71.7	4,100 *	4,100 *									140	
120	45	36.1	80.0	169.0	24,000 *	24,000 *									36.1	
120	45	40	78.6	168.2	24,000 *	24,000 *									40	
120	45	50	75.1	165.5	21,100 *	21,100 *	77.7	164.6	17,500 *	17,500 *					50	
120	45	60	71.5	162.2	18,500 *	18,500 *	74.0	161.2	16,700 *	16,700 *	76.4	158.8	12,100 *	12,100 *	60	
120	45	70	67.8	158.1	17,000 *	15,200	70.3	157.2	15,100 *	15,100 *	72.6	154.7	11,100 *	11,100 *	70	
120	45	80	64.0	153.3	14,900	12,400	66.5	152.4	13,700 *	12,800	68.7	149.8	10,300 *	10,300 *	80	
120	45	90	60.0	147.6	12,400	10,200	62.5	146.7	12,600 *	10,600	64.7	144.0	9,600 *	9,600 *	90	
120	45	100	55.9	141.0	10,500	8,600	58.3	140.0	10,700	8,800	60.5	137.2	9,000 *	9,000 *	100	
120	45	110	51.6	133.2	8,900	7,200	53.9	132.2	9,100	7,500	56.0	129.2	8,500 *	7,700	110	
120	45	120	46.9	124.1	7,600	6,100	49.3	123.0	7,800	6,300	51.2	119.8	8,000	6,500	120	
120	45	130	41.9	113.4	6,600 *	5,200	44.2	112.1	6,700	5,300					130	
120	45	140	36.3	100.4	5,200 *	4,400	38.4	99.0	5,600 *	4,500					140	
120	45	150	29.7	84.1	3,900 *	3,700									150	

LS-138H II - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
120	60	40.0	80.0	183.6	20,600 *	20,600 *	79.9	180.1	15,000 *	15,000 *	79.6	174.2	9,100 *	9,100 *	40.0	
120	60	50	76.8	181.2	17,800 *	17,700 *	76.6	177.1	13,100 *	13,100 *	76.2	170.5	8,300 *	8,300 *	50	
120	60	60	73.5	178.2	16,200 *	16,200 *	73.2	173.4	11,700 *	11,700 *	72.7	166.1	7,600 *	7,600 *	60	
120	60	70	70.1	174.5	14,400 *	14,400 *	69.8	169.1	10,500 *	10,500 *	69.0	160.9	7,100 *	7,100 *	70	
120	60	80	66.7	170.2	12,900 *	12,600	66.2	164.0	9,600 *	9,600 *	65.3	154.8	6,600 *	6,600 *	80	
120	60	90	63.1	165.1	11,700 *	10,400	62.5	158.1	8,800 *	8,800 *	61.4	147.8	6,200 *	6,200 *	90	
120	60	100	59.5	159.2	10,600	8,700	58.7	151.2	8,100 *	7,700	57.2	139.7	5,900 *	5,900 *	100	
120	60	110	55.7	152.4	9,100	7,400	54.6	143.3	7,500 *	6,500	52.8	130.3	5,600 *	5,600 *	110	
120	60	120	51.7	144.6	7,800	6,300	50.3	134.2	7,000 *	5,600	48.0	119.3	5,300 *	4,900	120	
120	60	130	47.4	135.5	6,700	5,300	45.7	123.5	6,000	4,700	45.8	145.8	6,600 *	6,600 *	130	
120	60	140	42.8	124.9	5,800	4,500	40.6	110.8	5,100 *	4,000	40.0	139.7	5,900 *	5,900 *	140	
120	60	150	37.8	112.4	4,700 *	3,900	32.1	97.1	3,500 *	3,300	30.0	120.0	4,900 *	4,900 *	150	
120	60	160	32.1	97.1	3,500 *	3,300	30.0	82.0	3,000 *	2,900	28.0	114.6	4,000 *	4,000 *	160	
130	30	34.0	80.0	164.6	24,000 *	24,000 *	79.6	162.7	24,000 *	24,000 *	77.5	158.4	19,200 *	19,200 *	34.0	
130	30	35	79.6	164.4	24,000 *	24,000 *	75.9	160.0	23,500 *	23,500 *	73.7	155.0	17,500 *	17,600 *	35	
130	30	40	77.8	163.4	24,000 *	24,000 *	72.1	156.7	21,000 *	18,700	69.8	150.8	17,000 *	15,300	40	
130	30	50	74.1	160.7	24,000 *	23,900	68.3	152.5	17,800	15,000	65.8	145.8	14,900	12,400	50	
130	30	60	70.4	157.3	21,900	18,300	64.3	147.6	14,600	12,100	61.6	139.8	12,300	10,200	60	
130	30	70	66.6	153.2	17,400	14,600	60.2	141.7	12,100	10,000	57.2	132.8	10,300	8,400	70	
130	30	80	62.6	148.2	14,300	11,800	55.8	134.8	10,100	8,200	52.6	124.5	8,700	7,000	80	
130	30	90	58.5	142.4	11,900	9,700	51.3	126.6	8,600	6,900	47.5	114.6	7,400	5,800	90	
130	30	100	54.2	135.5	9,900	8,000	46.3	117.0	7,300	5,700	40.0	100.0	4,000	4,000	100	
130	30	110	49.6	127.4	8,400	6,700	34.7	91.1	4,600 *	4,800	30.0	82.0	3,000 *	3,000	110	
130	30	120	44.7	117.8	7,100	5,600	30.0	72.0	3,000 *	2,900	28.0	62.0	2,000 *	2,000	120	
130	30	130	39.4	106.4	5,800 *	4,700	30.0	61.0	3,000 *	4,800	30.0	52.0	2,000 *	2,000	130	
130	30	140	33.2	92.3	4,400 *	3,900	30.0	46.0	3,000 *	4,000	30.0	32.0	2,000 *	2,000	140	
130	30	150	25.8	73.9	2,900 *	2,900 *	30.0	28.0	3,000 *	2,900	30.0	22.0	2,000 *	2,000	150	

LS-138H II - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
130	45	37.9	80.0	178.9	24,000 *	24,000 *									37.9	
130	45	40	79.3	178.4	24,000 *	24,000 *									40	
130	45	50	75.9	175.9	21,100 *	21,100 *	78.4	174.9	17,800 *	17,800 *					50	
130	45	60	72.6	172.8	18,500 *	18,500 *	75.0	171.8	16,600 *	16,600 *	77.2	169.4	12,300 *	12,300 *	60	
130	45	70	69.1	169.0	17,100 *	14,900	71.5	168.0	15,000 *	15,000 *	73.7	165.6	11,300 *	11,300 *	70	
130	45	80	65.5	164.5	14,600	12,100	67.9	163.5	13,700 *	12,500	70.1	161.0	10,500 *	10,500 *	80	
130	45	90	61.9	159.2	12,100	10,000	64.2	158.2	12,500	10,300	66.3	155.6	9,800 *	9,800 *	90	
130	45	100	58.1	153.1	10,200	8,300	60.4	152.1	10,500	8,600	62.4	149.3	9,200 *	8,900	100	
130	45	110	54.1	146.0	8,600	6,900	56.4	145.0	8,900	7,200	58.4	142.1	8,700 *	7,400	110	
130	45	120	49.9	137.8	7,300	5,800	52.2	136.7	7,600	6,000	54.1	133.6	7,800	6,200	120	
130	45	130	45.5	128.2	6,300	4,900	47.6	127.0	6,500	5,100	49.4	123.7	6,600	5,200	130	
130	45	140	40.6	117.0	5,200 *	4,100	42.7	115.7	5,500 *	4,300					140	
130	45	150	35.2	103.5	3,900 *	3,400	37.2	102.0	4,200 *	3,500					150	
130	45	160	28.8	86.6	2,700 *	2,700 *									160	
130	60	41.8	80.0	193.4	20,000 *	20,000 *									41.8	
130	60	50	77.5	191.5	17,700 *	17,700 *									50	
130	60	60	74.4	188.7	16,300 *	16,300 *	77.4	187.5	13,500 *	13,500 *					60	
130	60	70	71.2	185.2	14,400 *	14,400 *	74.2	184.1	12,000 *	12,000 *	77.0	181.1	8,400 *	8,400 *	70	
130	60	80	68.0	181.2	13,000 *	12,300	70.9	180.0	10,900 *	10,900 *	73.7	177.0	7,800 *	7,800 *	80	
130	60	90	64.7	176.4	11,700 *	10,100	67.6	175.3	9,900 *	9,900 *	70.3	172.1	7,200 *	7,200 *	90	
130	60	100	61.3	170.9	10,400	8,500	64.2	169.8	9,100 *	8,900	66.8	166.5	6,800 *	6,800 *	100	
130	60	110	57.7	164.6	8,800	7,100	60.6	163.4	8,400 *	7,500	63.2	160.0	6,400 *	6,400 *	110	
130	60	120	54.1	157.4	7,500	6,000	56.9	156.2	7,800 *	6,300	59.4	152.6	6,000 *	6,000 *	120	
130	60	130	50.2	149.1	6,400	5,100	53.0	147.8	6,700	5,300	55.4	144.1	5,700 *	5,600	130	
130	60	140	46.1	139.6	5,500	4,300	48.8	138.3	5,800	4,500	51.1	134.2	5,500 *	4,700	140	
130	60	150	41.6	128.6	4,500 *	3,600	44.3	127.1	4,900 *	3,800	46.4	122.7	5,100	3,900	150	
130	60	160	36.7	115.6	3,500 *	3,000	39.3	113.9	3,800 *	3,100					160	
130	60	170	31.1	99.8	2,500 *	2,500 *									170	

LS-138H II - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
140	30	35.7	80.0	174.5	24,000 *	24,000 *									35.7	
140	30	40	78.5	173.6	24,000 *	24,000 *									40	
140	30	50	75.1	171.1	24,000 *	23,700	76.7	170.5	23,300 *	23,300 *	78.3	168.8	19,500 *	19,500 *	50	
140	30	60	71.6	167.9	21,700	18,000	73.2	167.3	20,800 *	18,500	74.7	165.6	17,900 *	17,900 *	60	
140	30	70	68.0	164.1	17,100	14,400	69.6	163.4	17,500	14,700	71.1	161.7	17,200 *	15,100	70	
140	30	80	64.3	159.5	14,100	11,600	65.9	158.8	14,400	11,900	67.4	157.0	14,700	12,200	80	
140	30	90	60.5	154.1	11,600	9,400	62.1	153.4	11,900	9,700	63.5	151.5	12,100	9,900	90	
140	30	100	56.6	147.8	9,700	7,800	58.2	147.1	9,900	8,000	59.5	145.1	10,100	8,200	100	
140	30	110	52.5	140.4	8,100	6,400	54.0	139.7	8,300	6,600	55.3	137.6	8,500	6,800	110	
140	30	120	48.1	131.8	6,800	5,300	49.6	131.0	7,000	5,500	50.8	128.8	7,100	5,600	120	
140	30	130	43.3	121.8	5,700 *	4,400	44.8	120.9	5,900 *	4,500	45.9	118.5	6,000	4,600	130	
140	30	140	38.1	109.8	4,300 *	3,600	39.5	108.8	4,600 *	3,700					140	
140	30	150	32.2	95.1	3,100 *	2,900									150	
140	30	160	25.0	76.1	1,700 *	1,700 *									160	
140	45	40.0	80.0	188.7	24,000	24,000 *									40.0	
140	45	40	79.9	188.6	24,000 *	24,000 *									40	
140	45	50	76.7	186.3	20,900 *	20,900 *	79.0	185.3	17,600 *	17,700 *					50	
140	45	60	73.5	183.3	18,400 *	18,300	75.8	182.3	16,500 *	16,500 *	78.0	179.9	12,500 *	12,500 *	60	
140	45	70	70.3	179.8	17,100 *	14,600	72.5	178.8	14,900 *	14,900 *	74.6	176.3	11,600 *	11,600 *	70	
140	45	80	66.9	175.6	14,300	11,800	69.2	174.6	13,700 *	12,300	71.2	172.0	10,800 *	10,800 *	80	
140	45	90	63.5	170.6	11,800	9,700	65.8	169.6	12,200	10,100	67.8	167.0	10,100 *	10,100 *	90	
140	45	100	60.0	165.0	9,900	8,000	62.2	163.9	10,200	8,300	64.2	161.2	9,500 *	8,700	100	
140	45	110	56.3	158.4	8,300	6,700	58.5	157.3	8,600	6,900	60.4	154.5	8,900	7,200	110	
140	45	120	52.5	150.9	7,100	5,500	54.7	149.8	7,300	5,800	56.5	146.8	7,500	6,000	120	
140	45	130	48.5	142.2	6,000	4,600	50.6	141.1	6,200	4,800	52.3	137.9	6,400	5,000	130	
140	45	140	44.1	132.2	5,000 *	3,800	46.2	131.0	5,300 *	4,000	47.8	127.5	5,400	4,100	140	
140	45	150	39.4	120.5	3,800 *	3,100	41.4	119.1	4,100 *	3,300					150	
140	45	160	34.1	106.4	2,700 *	2,500	36.0	104.9	3,000 *	2,700					160	
140	45	170	28.0	89.0	1,600 *	1,600 *									170	

LS-138H II - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
140	60	43.5	80.0	203.3	19,300 *	19,300 *									43.5	
140	60	50	78.1	201.8	17,600 *	17,600 *									50	
140	60	60	75.2	199.1	16,200 *	16,200 *	78.0	198.0	13,700 *	13,700 *					60	
140	60	70	72.2	195.9	14,400 *	14,400 *	75.0	194.7	12,400 *	12,300 *	77.7	191.7	8,600 *	8,600 *	70	
140	60	80	69.1	192.0	13,000 *	12,000	71.9	190.9	11,200 *	11,200 *	74.5	187.8	7,900 *	7,900 *	80	
140	60	90	66.0	187.6	11,800 *	9,900	68.8	186.4	10,200 *	10,200 *	71.4	183.2	7,400 *	7,400 *	90	
140	60	100	62.8	182.4	10,100	8,200	65.6	181.2	9,400 *	8,600	68.1	178.0	6,900 *	6,900 *	100	
140	60	110	59.5	176.5	8,500	6,800	62.3	175.3	8,700 *	7,200	64.7	172.0	6,500 *	6,500 *	110	
140	60	120	56.1	169.8	7,200	5,700	58.8	168.6	7,600	6,000	61.2	165.1	6,200 *	6,200 *	120	
140	60	130	52.6	162.2	6,200	4,800	55.2	161.0	6,500	5,100	57.5	157.3	5,900 *	5,300	130	
140	60	140	48.8	153.6	5,300 *	4,000	51.4	152.2	5,500	4,200	53.7	148.3	5,600 *	4,500	140	
140	60	150	44.8	143.6	4,300 *	3,300	47.4	142.2	4,700 *	3,500	49.5	138.0	4,900	3,700	150	
140	60	160	40.5	132.2	3,300 *	2,700	43.0	130.6	3,700 *	2,900					160	
140	60	170	35.7	118.7	2,400 *	2,200	38.2	116.9	2,700 *	2,300					170	
140	60	180	30.3	102.4	1,500 *	1,500 *									180	
150	30	37.5	80.0	184.3	24,000 *	24,000 *									37.5	
150	30	40	79.2	183.8	24,000 *	24,000 *									40	
150	30	50	75.9	181.5	24,000 *	23,400	77.5	180.8	23,000 *	23,000 *	79.0	179.2	19,800	19,800 *	50	
150	30	60	72.6	178.5	21,400	17,700	74.2	177.8	20,600 *	18,200	75.6	176.1	18,000	18,000 *	60	
150	30	70	69.3	174.9	17,100	14,100	70.8	174.2	17,300	14,500	72.2	172.5	17,000	14,900	70	
150	30	80	65.9	170.6	13,800	11,300	67.4	169.9	14,100	11,600	68.7	168.1	14,400	11,900	80	
150	30	90	62.3	165.6	11,300	9,100	63.8	164.9	11,600	9,400	65.2	163.0	11,900	9,700	90	
150	30	100	58.7	159.7	9,400	7,500	60.2	159.0	9,600	7,700	61.4	157.1	9,800	7,900	100	
150	30	110	54.9	152.9	7,800	6,100	56.3	152.2	8,000	6,300	57.6	150.2	8,200	6,500	110	
150	30	120	50.9	145.1	6,500	5,000	52.3	144.4	6,700	5,200	53.5	142.2	6,900	5,300	120	
150	30	130	46.6	136.1	5,400 *	4,100	48.0	135.3	5,600	4,200	49.1	133.0	5,800	4,400	130	
150	30	140	42.0	125.6	4,200 *	3,300	43.4	124.7	4,400 *	3,400					140	
150	30	150	37.0	113.1	3,000 *	2,600	38.3	112.1	3,200 *	2,700					150	
150	30	160	31.3	97.9	1,900 *	1,900 *									160	

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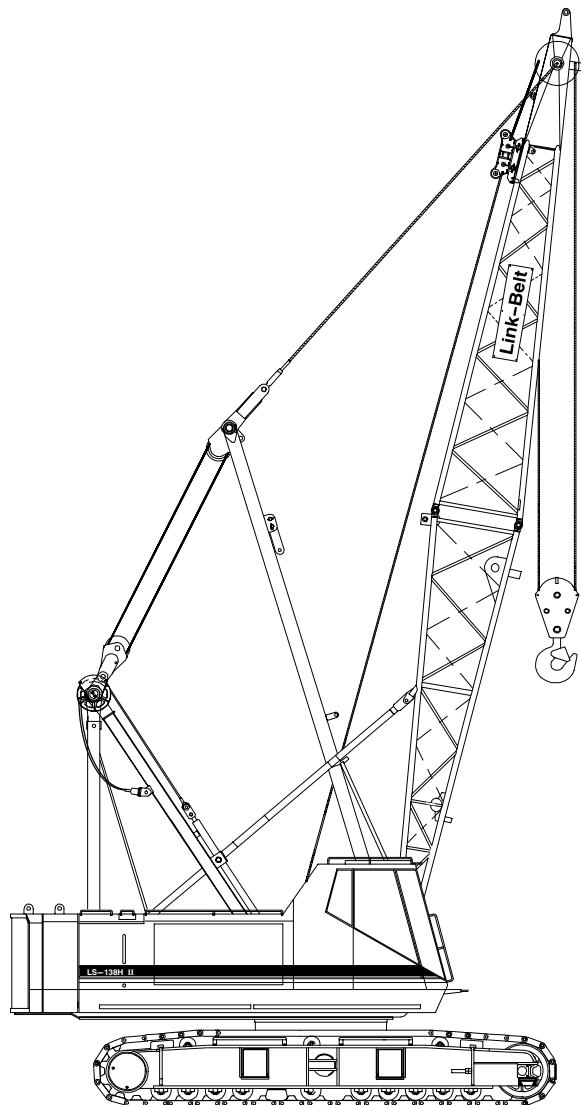
Jib Capacities

Lattice Boom Crawler Crane

LS-138H II 80-ton (*72.6 metric ton*)

Tubular Boom + Jib

- 40'-190' (12.19 – 57.91 m) Tubular Boom
- 54" (1.37 m) wide x 44" (1.12 m) deep boom
- 30' – 60' (9.14 – 18.28 m) of Jib
- 20' (6.10 m) Open Throat Top Section
- 24' (7.31 m) Live Mast
- Extended Side Frames
- Over End Blocked Capacities
- "AB" Counterweight
- 20' – 2" (6.15 m) Crawler Length



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

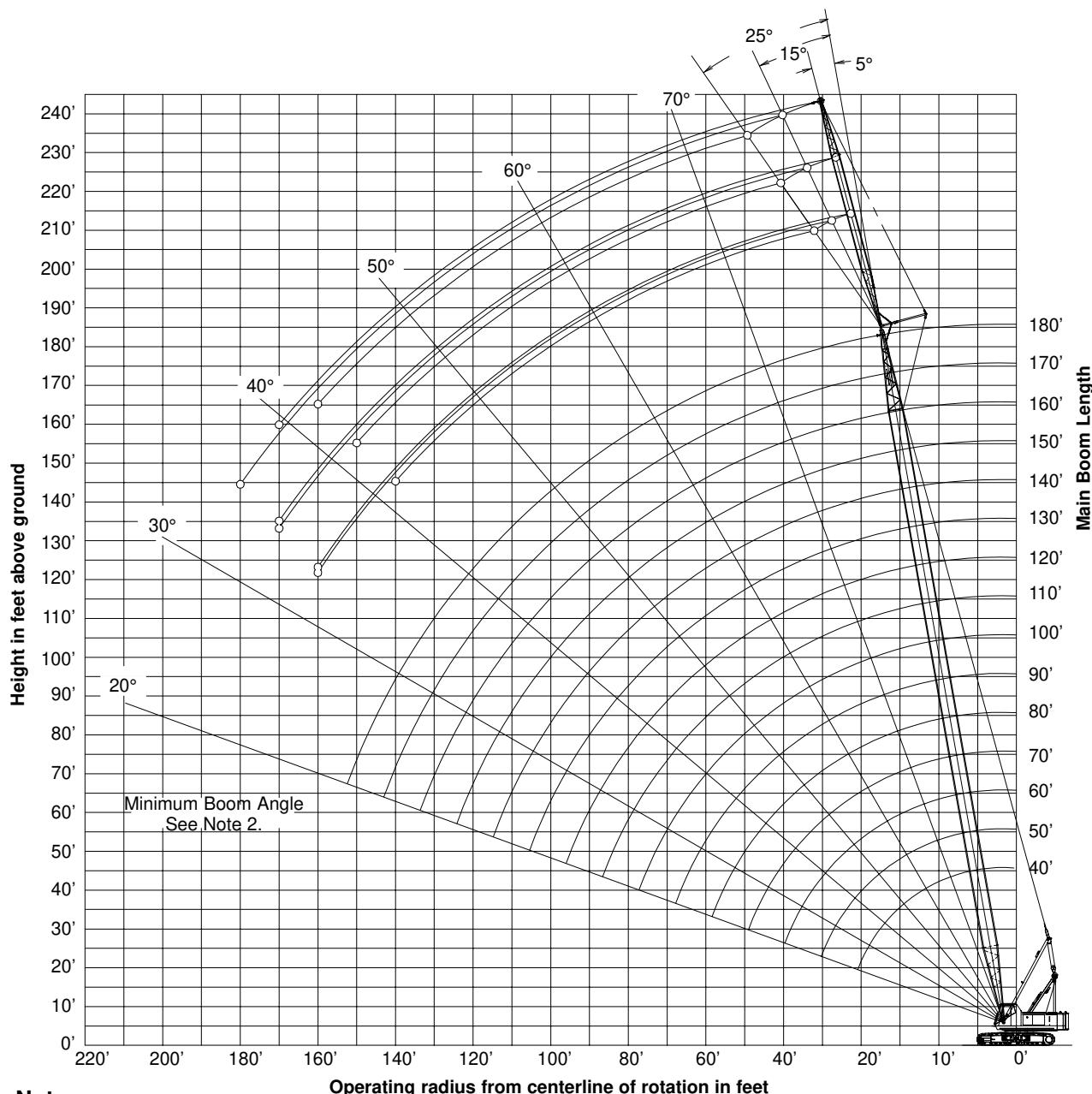
TUBULAR JIB NOTES FOR OPEN THROAT BOOM

1. Capacities are for a LS-138H II crawler crane with AB (50,500 lb) counterweight.
2. Separate capacity charts are listed for 360° and for over-end blocked crawler working areas. Verify operating conditions as described on the Working Area Chart found in the general information section of this Crane Rating Manual. Apply the appropriate lift capacity chart based on the working area and the specific operating conditions.
3. Over-end blocked capacities can be lifted over either end with the crane standing level on a firm supporting surface. Adequate blocking must be placed under both treadmember sprockets/idlers to prevent rocking.
4. Capacities are for side frames in the extended position only and are based on the crane standing level on a firm supporting surface.
5. Capacities are limited to a LBCE 44" x 54" tubular boom with an open throat and a LBCE 12 ton, 24" x 32" cross section jib with a 11'6" high jib mast properly assembled.
6. Two parts of 7/8" Diameter Type "DB" or Type "RB" wire rope are required for maximum lift.
7. Capacities are for 30', 45', and 60' jib lengths only.
8. A jib cannot be used on open throat boom lengths longer than 190'. Maximum boom plus jib combination is 180' + 60' or 190' + 30'. The only jib length available on the 190' open throat boom length is 30'. Midpoint pendants must be used with 190' + 30' combination.
9. The least stable condition is over the side.
10. All capacities are listed in pounds and are not more than 75% of the tipping loads. Those capacities followed by an asterisk (*) are governed by factors other than those that would cause a tipping condition.
11. A deduction must be made from the jib capacities for the weight of the following: Main boom hook block or hook ball, jib hook block or hook ball, slings, grapple, load weighing devices, etc.

WORKING RANGE DIAGRAM

40' TO 180' MAIN BOOM WITH 30' TO 60' JIB

Maximum Boom Angle
See Note 2.



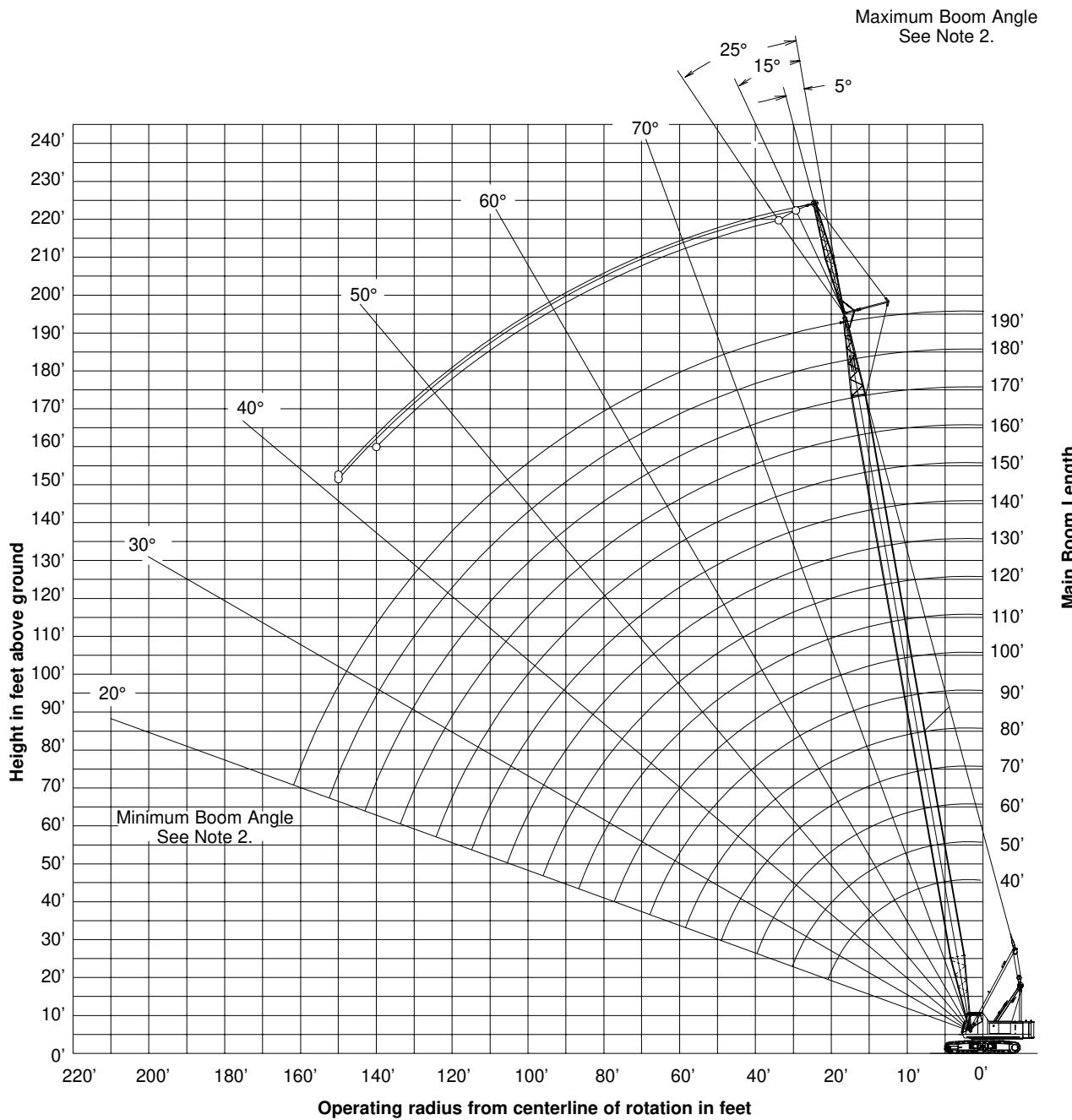
Notes:

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

Working Range Diagram

WORKING RANGE DIAGRAM

190' MAIN BOOM WITH 30' JIB



Notes:

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

Working Range Diagram

LS-138H II - w/ 44" x 54" Tube Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
40	30	18.38	80.0	76.4	24,000 *	24,000 *									18.38	
40	30	19	79.5	76.3	24,000 *	24,000 *									19	
40	30	20	78.7	76.0	24,000 *	24,000 *									20	
40	30	25	74.6	74.7	24,000 *	24,000 *	78.6	74.2	24,000 *	24,000 *					25	
40	30	30	70.4	72.9	24,000 *	24,000 *	74.3	72.4	24,000 *	24,000 *	78.1	71.2	19,800 *	19,800 *	30	
40	30	35	66.0	70.7	24,000 *	24,000 *	69.9	70.2	23,800 *	23,800 *	73.6	68.9	17,800 *	17,800 *	35	
40	30	40	61.5	68.0	24,000 *	24,000 *	65.4	67.5	21,200 *	21,200 *	69.0	66.2	17,000 *	17,000 *	40	
40	30	50	51.7	60.8	21,100 *	21,100 *	55.5	60.4	17,400 *	17,400 *	58.9	58.8	14,800 *	14,800 *	50	
40	30	60	40.3	50.5	17,400 *	17,400 *	43.9	49.9	16,300 *	16,300 *	46.9	47.9	13,300 *	13,300 *	60	
40	45	25	78.2	89.9	24,000 *	24,000 *									25	
40	45	30	74.7	88.4	24,000 *	24,000 *	79.7	87.8	19,200 *	19,200 *					30	
40	45	35	71.2	86.6	21,800 *	21,800 *	76.2	86.0	17,300 *	17,300 *					35	
40	45	40	67.7	84.4	19,100 *	19,100 *	72.6	83.8	16,700 *	16,700 *	77.4	82.1	12,600 *	12,600 *	40	
40	45	50	60.2	78.8	16,700 *	16,700 *	65.1	78.3	13,600 *	13,600 *	69.6	76.4	10,600 *	10,600 *	50	
40	45	60	52.0	71.3	13,700 *	13,700 *	56.8	70.7	11,500 *	11,500 *	61.2	68.7	9,200 *	9,200 *	60	
40	45	70	42.6	61.1	11,700 *	11,700 *	47.3	60.4	10,000 *	10,000 *	51.3	58.0	8,200 *	8,200 *	70	
40	45	80	30.9	46.3	10,200 *	10,200 *									80	
40	60	30	77.8	104.2	21,200 *	21,200 *									30	
40	60	35	74.8	102.7	18,300 *	18,300 *									35	
40	60	40	71.9	100.9	17,300 *	17,300 *	77.6	100.3	13,800 *	13,800 *					40	
40	60	50	65.7	96.3	13,800 *	13,800 *	71.4	95.7	11,200 *	11,200 *	76.8	93.8	8,600 *	8,600 *	50	
40	60	60	59.2	90.4	11,300 *	11,300 *	64.8	89.8	9,400 *	9,400 *	70.1	87.7	7,400 *	7,400 *	60	
40	60	70	52.2	82.7	9,600 *	9,600 *	57.7	82.1	8,100 *	8,100 *	62.8	79.7	6,500 *	6,500 *	70	
40	60	80	44.3	72.7	8,300 *	8,300 *	49.6	72.0	7,100 *	7,100 *	54.5	69.3	5,800 *	5,800 *	80	
40	60	90	34.8	59.2	7,300 *	7,300 *	40.0	58.2	6,400 *	6,400 *					90	
50	30	25	76.5	85.1	24,000 *	24,000 *									25	
50	30	30	72.9	83.5	24,000 *	24,000 *	76.3	83.1	24,000 *	24,000 *	79.7	81.7	20,600 *	20,600 *	30	
50	30	35	69.1	81.6	24,000 *	24,000 *	72.6	81.2	24,000 *	24,000 *	75.8	79.8	18,700 *	18,700 *	35	

LS-138H II - w/ 44" x 54" Tube Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
50	30	40	65.3	79.3	24,000 *	24,000 *	68.7	78.9	23,000 *	23,000 *	71.9	77.4	17,400 *	17,400 *	40	
50	30	50	57.2	73.4	23,800 *	23,700 *	60.5	72.9	19,000 *	19,000 *	63.6	71.4	15,700 *	15,700 *	50	
50	30	60	48.2	65.3	19,700 *	19,700 *	51.4	64.7	17,400 *	17,400 *	54.2	62.9	14,100 *	14,100 *	60	
50	30	70	37.5	53.8	17,400 *	16,600	40.6	53.1	15,800 *	15,700 *					70	
50	45	25	79.4	100.2	24,000 *	24,000 *									25	
50	45	30	76.4	98.9	24,000 *	24,000 *									30	
50	45	35	73.3	97.3	23,600 *	23,600 *	77.7	96.6	17,800 *	17,800 *					35	
50	45	40	70.1	95.3	20,800 *	20,800 *	74.6	94.7	17,300 *	17,300 *	78.8	92.9	13,000 *	13,000 *	40	
50	45	50	63.6	90.5	17,300 *	17,300 *	68.0	89.8	14,600 *	14,600 *	72.1	87.9	11,100 *	11,100 *	50	
50	45	60	56.6	84.1	15,200 *	15,200 *	60.9	83.4	12,400 *	12,400 *	64.9	81.3	9,700 *	9,700 *	60	
50	45	70	48.9	75.7	12,900 *	13,000 *	53.2	75.0	10,800 *	10,800 *	56.9	72.6	8,700 *	8,700 *	70	
50	45	80	40.2	64.6	11,300 *	11,300 *	44.2	63.7	9,700 *	9,700 *	47.7	61.0	8,000 *	8,000 *	80	
50	45	90	29.1	48.7	10,000 *	10,000 *									90	
50	60	30	78.9	114.5	22,600 *	22,600 *									30	
50	60	35	76.2	113.1	19,500 *	19,500 *									35	
50	60	40	73.6	111.5	17,200 *	17,200 *	78.8	110.8	14,400 *	14,400 *					40	
50	60	50	68.1	107.4	15,000 *	15,000 *	73.2	106.8	11,800 *	11,800 *	78.1	104.6	8,900 *	8,900 *	50	
50	60	60	62.3	102.2	12,400 *	12,400 *	67.4	101.5	10,000 *	10,000 *	72.2	99.2	7,700 *	7,700 *	60	
50	60	70	56.2	95.5	10,500 *	10,500 *	61.2	94.8	8,600 *	8,600 *	65.9	92.3	6,800 *	6,800 *	70	
50	60	80	49.5	87.1	9,100 *	9,100 *	54.4	86.3	7,600 *	7,600 *	59.0	83.6	6,100 *	6,100 *	80	
50	60	90	42.0	76.3	8,000 *	8,000 *	46.8	75.5	6,800 *	6,800 *	51.1	72.3	5,600 *	5,600 *	90	
50	60	100	33.1	61.9	7,200 *	7,200 *	37.7	60.8	6,200 *	6,200 *					100	
60	30	25	78.0	95.4	24,000 *	24,000 *									25	
60	30	30	74.8	94.0	24,000 *	24,000 *	77.9	93.5	24,000 *	24,000 *					30	
60	30	35	71.5	92.4	24,000 *	24,000 *	74.6	91.9	24,000 *	24,000 *	77.5	90.4	19,500 *	19,500 *	35	
60	30	40	68.2	90.4	24,000 *	24,000 *	71.2	89.9	24,000 *	24,000 *	74.1	88.4	18,000 *	18,000 *	40	
60	30	50	61.2	85.3	24,000 *	24,000 *	64.2	84.8	20,500 *	20,500 *	66.9	83.2	16,400 *	16,400 *	50	
60	30	60	53.6	78.5	21,900 *	20,100	56.6	77.9	17,700 *	17,700 *	59.2	76.2	14,800 *	14,800 *	60	
60	30	70	45.3	69.4	18,700 *	16,400	48.1	68.8	17,200 *	16,600	50.5	66.8	13,600 *	13,600 *	70	

LS-138H II - w/ 44" x 54" Tube Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
60	30	80	35.3	56.9	16,100	13,700	37.9	56.1	15,400	*	13,800				80	
60	45	30	77.7	109.3	24,000 *	24,000 *									30	
60	45	35	74.9	107.8	24,000 *	24,000 *	78.9	107.1	18,600 *	18,600 *					35	
60	45	40	72.1	106.1	22,500 *	22,500 *	76.1	105.4	17,300 *	17,300 *					40	
60	45	50	66.2	101.8	18,100 *	18,100 *	70.2	101.0	15,500 *	15,500 *					50	
60	45	60	60.1	96.1	16,700 *	16,700 *	64.1	95.4	13,300 *	13,300 *					60	
60	45	70	53.6	89.0	14,200 *	14,200 *	57.4	88.2	11,600 *	11,600 *					70	
60	45	80	46.4	79.9	12,400 *	12,400 *	50.1	79.0	10,400 *	10,400 *					80	
60	45	90	38.1	67.9	11,000 *	11,000 *	41.7	66.9	9,400 *	9,400 *					90	
60	45	100	27.6	51.0	9,900 *	9,900 *									100	
60	60	30	79.8	124.8	23,900 *	23,900 *									30	
60	60	35	77.4	123.5	20,800 *	20,800 *									35	
60	60	40	75.0	122.0	18,300 *	18,300 *	79.7	121.3	15,000 *	15,000 *					40	
60	60	50	70.0	118.3	16,200 *	16,200 *	74.7	117.6	12,400 *	12,400 *					50	
60	60	60	64.8	113.6	13,400 *	13,400 *	69.5	112.9	10,500 *	10,600 *					60	
60	60	70	59.3	107.7	11,300 *	11,300 *	64.0	106.9	9,200 *	9,200 *					70	
60	60	80	53.5	100.4	9,800 *	9,800 *	58.1	99.5	8,100 *	8,100 *					80	
60	60	90	47.2	91.3	8,700 *	8,700 *	51.7	90.4	7,300 *	7,300 *					90	
60	60	100	40.1	79.8	7,800 *	7,800 *	44.4	78.7	6,600 *	6,600 *					100	
60	60	110	31.6	64.6	7,000 *	7,000 *	35.7	63.1	6,100 *	6,100 *					110	
70	30	25	79.2	105.7	24,000 *	24,000 *									25	
70	30	30	76.3	104.4	24,000 *	24,000 *	79.1	103.9	24,000 *	24,000 *					30	
70	30	35	73.4	102.9	24,000 *	24,000 *	76.2	102.4	24,000 *	24,000 *					35	
70	30	40	70.4	101.2	24,000 *	24,000 *	73.2	100.6	24,000 *	24,000 *					40	
70	30	50	64.3	96.7	24,000 *	24,000 *	67.0	96.1	21,900 *	21,900 *					50	
70	30	60	57.7	90.8	23,500	19,900	60.4	90.2	18,900 *	18,900 *					60	
70	30	70	50.7	83.2	19,000	16,200	53.3	82.6	17,300 *	16,400					70	
70	30	80	42.8	73.3	15,900	13,500	45.3	72.6	16,000	13,600					80	
70	30	90	33.4	59.8	13,500	11,400	35.7	58.9	13,600	11,500					90	

LS-138H II - w/ 44" x 54" Tube Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
70	45	30	78.7	119.6	24,000 *	24,000 *	79.9	117.5	19,300 *	19,300 *	75.5	109.9	12,000 *	12,000 *	30	
70	45	35	76.2	118.3	24,000 *	24,000 *	79.9	117.5	19,300 *	19,300 *	75.5	109.9	12,000 *	12,000 *	35	
70	45	40	73.7	116.7	24,000 *	24,000 *	77.3	115.9	17,500 *	17,500 *	75.5	109.9	12,000 *	12,000 *	40	
70	45	50	68.4	112.8	19,500 *	19,500 *	72.1	112.0	16,400 *	16,400 *	75.5	109.9	12,000 *	12,000 *	50	
70	45	60	63.0	107.8	17,300 *	17,300 *	66.6	107.0	14,100 *	14,100 *	69.9	104.8	10,600 *	10,600 *	60	
70	45	70	57.2	101.5	15,400 *	15,400 *	60.7	100.7	12,300 *	12,400 *	64.0	98.3	9,600 *	9,600 *	70	
70	45	80	51.0	93.6	13,500 *	13,400 *	54.5	92.8	11,000 *	11,000 *	57.5	90.2	8,800 *	8,800 *	80	
70	45	90	44.2	83.8	11,900 *	11,600	47.5	82.8	10,000 *	10,000 *	50.4	80.0	8,100 *	8,100 *	90	
70	45	100	36.3	71.0	10,800 *	10,000	39.5	69.9	9,200 *	9,200 *	50.4	80.0	8,100 *	8,100 *	100	
70	60	35	78.4	133.9	21,900 *	21,900 *	75.9	128.3	12,900 *	12,900 *	75.3	121.5	8,200 *	8,200 *	35	
70	60	40	76.1	132.5	19,400 *	19,400 *	75.9	128.3	12,900 *	12,900 *	75.3	121.5	8,200 *	8,200 *	40	
70	60	50	71.6	129.1	17,300 *	17,300 *	75.9	124.0	11,100 *	11,100 *	75.3	121.5	8,200 *	8,200 *	50	
70	60	60	66.8	124.8	14,300 *	14,300 *	71.2	124.0	11,100 *	11,100 *	75.3	121.5	8,200 *	8,200 *	60	
70	60	70	61.9	119.5	12,200 *	12,200 *	66.2	118.6	9,700 *	9,700 *	70.2	116.0	7,300 *	7,300 *	70	
70	60	80	56.8	112.9	10,600 *	10,600 *	61.0	112.1	8,600 *	8,600 *	64.9	109.3	6,600 *	6,600 *	80	
70	60	90	51.2	105.0	9,400 *	9,400 *	55.4	104.1	7,700 *	7,700 *	59.1	101.0	6,100 *	6,100 *	90	
70	60	100	45.2	95.3	8,400 *	8,400 *	49.3	94.2	7,000 *	7,000 *	52.8	90.9	5,600 *	5,600 *	100	
70	60	110	38.4	83.1	7,600 *	7,600 *	42.3	81.9	6,500 *	6,500 *	45.6	78.0	5,300 *	5,300 *	110	
70	60	120	30.2	67.1	7,000 *	6,900 *	42.3	81.9	6,500 *	6,500 *	45.6	78.0	5,300 *	5,300 *	120	
80	30	30	77.6	114.8	24,000 *	24,000 *	77.5	112.8	24,000 *	24,000 *	79.9	111.4	20,600 *	20,600 *	30	
80	30	35	74.9	113.4	24,000 *	24,000 *	77.5	111.2	24,000 *	24,000 *	77.1	109.7	19,200 *	19,200 *	35	
80	30	40	72.2	111.8	24,000 *	24,000 *	74.8	107.2	23,200 *	23,200 *	71.5	105.6	17,300 *	17,300 *	40	
80	30	50	66.7	107.8	24,000 *	24,000 *	69.2	102.0	20,100 *	20,000	65.6	100.3	16,100 *	16,100 *	50	
80	30	60	61.0	102.6	23,300	19,700	63.4	102.0	20,100 *	20,000	65.6	100.3	16,100 *	16,100 *	60	
80	30	70	54.8	96.0	18,800	16,000	57.2	95.4	17,800 *	16,300	59.3	93.6	14,800 *	14,800 *	70	
80	30	80	48.2	87.6	15,700	13,300	50.5	87.0	15,900	13,400	52.5	85.0	13,800 *	13,600	80	
80	30	90	40.7	77.0	13,300	11,200	42.9	76.2	13,400	11,300					90	
80	30	100	31.8	62.6	11,400	9,500									100	

LS-138H II - w/ 44" x 54" Tube Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
80	45	30	79.6	129.8	24,000 *	24,000 *									30	
80	45	35	77.3	128.6	24,000 *	24,000 *									35	
80	45	40	75.0	127.2	24,000 *	24,000 *	78.4	126.4	18,200 *	18,200 *					40	
80	45	50	70.2	123.6	20,800 *	20,800 *	73.6	122.8	17,200 *	17,200 *	76.7	120.7	12,300 *	12,300 *	50	
80	45	60	65.3	119.1	17,500 *	17,500 *	68.6	118.3	14,800 *	14,800 *	71.7	116.0	11,000 *	11,000 *	60	
80	45	70	60.1	113.5	16,600 *	16,300	63.4	112.6	13,100 *	13,100 *	66.4	110.3	9,900 *	9,900 *	70	
80	45	80	54.7	106.5	14,500 *	13,500	57.9	105.7	11,700 *	11,700 *	60.7	103.1	9,100 *	9,100 *	80	
80	45	90	48.8	98.1	12,900 *	11,400	51.9	97.1	10,600 *	10,600 *	54.6	94.4	8,500 *	8,500 *	90	
80	45	100	42.2	87.5	11,600 *	9,800	45.3	86.5	9,800 *	9,800 *	47.8	83.4	7,900 *	8,000 *	100	
80	45	110	34.7	74.0	10,100	8,400	37.6	72.8	9,100 *	8,500					110	
80	60	35	79.2	144.1	23,000 *	23,000 *									35	
80	60	40	77.1	142.9	20,400 *	20,400 *									40	
80	60	50	72.9	139.8	17,300 *	17,300 *	77.0	138.9	13,400 *	13,400 *					50	
80	60	60	68.6	135.8	15,300 *	15,300 *	72.6	134.9	11,600 *	11,600 *	76.4	132.3	8,400 *	8,400 *	60	
80	60	70	64.1	130.9	13,000 *	13,000 *	68.1	130.0	10,100 *	10,100 *	71.8	127.3	7,600 *	7,600 *	70	
80	60	80	59.4	125.0	11,300 *	11,300 *	63.4	124.1	9,000 *	9,000 *	67.0	121.3	6,900 *	6,900 *	80	
80	60	90	54.5	117.9	10,000 *	10,000 *	58.4	117.0	8,100 *	8,100 *	61.9	113.9	6,300 *	6,300 *	90	
80	60	100	49.2	109.4	9,000 *	9,000 *	53.0	108.4	7,400 *	7,400 *	56.4	105.1	5,900 *	5,900 *	100	
80	60	110	43.4	99.1	8,100 *	8,100 *	47.2	97.9	6,800 *	6,800 *	50.3	94.3	5,500 *	5,500 *	110	
80	60	120	36.9	86.3	7,400 *	7,400 *	40.5	84.9	6,300 *	6,300 *					120	
80	60	130	29.0	69.5	6,900 *	6,500									130	
90	30	30	78.6	125.0	24,000 *	24,000 *									30	
90	30	35	76.2	123.8	24,000 *	24,000 *	78.5	123.2	24,000 *	24,000 *					35	
90	30	40	73.7	122.3	24,000 *	24,000 *	76.1	121.8	24,000 *	24,000 *	78.3	120.2	19,700 *	19,700 *	40	
90	30	50	68.7	118.7	24,000 *	24,000 *	71.0	118.1	24,000 *	24,000 *	73.2	116.5	17,500 *	17,500 *	50	
90	30	60	63.6	114.0	23,100	19,500	65.8	113.4	21,200 *	19,800	67.9	111.8	16,600 *	16,600 *	60	
90	30	70	58.1	108.2	18,600	15,800	60.4	107.5	18,900	16,100	62.3	105.8	15,300 *	15,300 *	70	
90	30	80	52.3	100.9	15,500	13,100	54.5	100.2	15,700	13,300	56.4	98.3	14,300 *	13,400	80	
90	30	90	46.0	91.9	13,100	11,000	48.1	91.1	13,200	11,100	49.8	89.0	13,400	11,300	90	
90	30	100	38.9	80.4	11,200	9,300	40.9	79.6	11,300	9,400					100	

LS-138H II - w/ 44" x 54" Tube Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
90	30	110	30.4	65.3	9,600	8,000									110	
90	45	35	78.3	138.9	24,000 *	24,000 *									35	
90	45	40	76.1	137.6	24,000 *	24,000 *	79.3	136.7	18,700 *	18,700 *					40	
90	45	50	71.7	134.3	22,100 *	22,000 *	74.8	133.5	17,300 *	17,300 *	77.8	131.3	12,600 *	12,600 *	50	
90	45	60	67.2	130.2	18,600 *	18,600 *	70.3	129.3	15,500 *	15,500 *	73.2	127.1	11,300 *	11,300 *	60	
90	45	70	62.5	125.1	17,300 *	16,100	65.6	124.2	13,700 *	13,700 *	68.4	121.8	10,300 *	10,300 *	70	
90	45	80	57.6	118.9	15,600 *	13,300	60.6	118.0	12,300 *	12,300 *	63.3	115.5	9,500 *	9,400 *	80	
90	45	90	52.4	111.4	13,300	11,200	55.4	110.4	11,200 *	11,200 *	57.9	107.7	8,800 *	8,800 *	90	
90	45	100	46.8	102.3	11,400	9,500	49.7	101.3	10,300 *	9,700	52.1	98.3	8,200 *	8,200 *	100	
90	45	110	40.5	91.1	9,900	8,200	43.3	90.0	9,500 *	8,400					110	
90	45	120	33.3	76.9	8,600	7,100	35.9	75.5	8,700	7,200					120	
90	60	35	79.9	154.4	24,000 *	24,000 *									35	
90	60	40	78.0	153.2	21,400 *	21,400 *									40	
90	60	50	74.1	150.3	17,500 *	17,500 *	77.9	149.4	13,900 *	13,900 *					50	
90	60	60	70.1	146.6	16,200 *	16,200 *	73.8	145.7	12,000 *	12,000 *	77.4	143.0	8,600 *	8,600 *	60	
90	60	70	66.0	142.2	13,900 *	13,900 *	69.7	141.2	10,600 *	10,600 *	73.2	138.4	7,800 *	7,800 *	70	
90	60	80	61.7	136.8	12,100 *	12,100 *	65.4	135.8	9,400 *	9,400 *	68.8	132.9	7,100 *	7,100 *	80	
90	60	90	57.2	130.3	10,700 *	10,700 *	60.9	129.3	8,500 *	8,500 *	64.2	126.3	6,500 *	6,500 *	90	
90	60	100	52.5	122.7	9,600 *	9,600 *	56.1	121.7	7,800 *	7,800 *	59.3	118.4	6,100 *	6,100 *	100	
90	60	110	47.4	113.7	8,700 *	8,300	50.9	112.5	7,200 *	7,200 *	54.0	109.0	5,700 *	5,700 *	110	
90	60	120	41.9	102.8	7,900 *	7,200	45.3	101.5	6,700 *	6,700 *	48.1	97.6	5,400 *	5,400 *	120	
90	60	130	35.6	89.3	7,300 *	6,300	38.9	87.8	6,200 *	6,200 *					130	
90	60	140	28.0	71.8	6,800	5,500									140	
100	30	30	79.5	135.3	24,000 *	24,000 *									30	
100	30	35	77.2	134.1	24,000 *	24,000 *	79.4	133.5	24,000 *	24,000 *					35	
100	30	40	75.0	132.8	24,000 *	24,000 *	77.2	132.2	24,000 *	24,000 *	79.2	130.6	20,200 *	20,200 *	40	
100	30	50	70.4	129.4	24,000 *	24,000 *	72.6	128.9	24,000 *	24,000 *	74.5	127.2	18,000 *	18,000 *	50	
100	30	60	65.7	125.2	22,900	19,300	67.8	124.6	22,300 *	19,600	69.7	122.9	17,100 *	17,100 *	60	
100	30	70	60.8	119.9	18,400	15,700	62.9	119.3	18,700	15,900	64.7	117.5	15,800 *	15,800 *	70	

LS-138H II - w/ 44" x 54" Tube Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)		
			5 Degrees				15 Degrees				25 Degrees						
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)			
100	30	80	55.6	113.4	15,300	12,900	57.7	112.8	15,500	13,100	59.4	110.9	14,800	*	13,300	80	
100	30	90	50.1	105.6	12,900	10,800	52.1	104.9	13,100	11,000	53.8	102.8	13,200	*	11,100	90	
100	30	100	44.1	95.9	11,000	9,100	46.0	95.1	11,100	9,300	47.6	92.8	11,200	*	9,400	100	
100	30	110	37.3	83.8	9,500	7,800	39.1	82.8	9,500	7,900						110	
100	30	120	29.1	67.8	8,200	6,700										120	
100	45	35	79.1	149.2	24,000	*	24,000	*								35	
100	45	40	77.1	148.0	24,000	*	24,000	*								40	
100	45	50	73.0	144.9	22,900	*	22,900	*	75.9	144.1	17,300	*	17,300	*	12,900	*	50
100	45	60	68.9	141.1	19,700	*	19,500		71.7	140.2	16,200	*	16,200	*	11,600	*	60
100	45	70	64.6	136.4	17,100	*	15,900		67.4	135.5	14,300	*	14,300	*	10,600	*	70
100	45	80	60.1	130.8	15,600		13,100		62.9	129.9	12,900	*	12,900	*	9,800	*	80
100	45	90	55.4	124.0	13,100		11,000		58.2	123.1	11,700	*	11,200		9,100	*	90
100	45	100	50.4	116.0	11,200		9,300		53.1	115.0	10,800	*	9,500		8,500	*	100
100	45	110	45.0	106.3	9,700		8,000		47.7	105.2	9,800		8,200		8,100	*	110
100	45	120	39.0	94.6	8,400		6,900		41.6	93.3	8,500		7,000				120
100	45	130	32.1	79.7	7,300		6,000										130
100	60	40	78.8	163.5	22,300	*	22,300	*									40
100	60	50	75.1	160.8	18,300	*	18,300	*	78.7	159.8	14,300	*	14,300	*			50
100	60	60	71.4	157.4	17,100	*	17,100	*	74.9	156.4	12,400	*	12,400	*	8,800	*	60
100	60	70	67.5	153.2	14,700	*	14,700	*	71.0	152.2	11,000	*	11,000	*	8,000	*	70
100	60	80	63.6	148.2	12,800	*	12,800	*	67.1	147.2	9,800	*	9,800	*	7,300	*	80
100	60	90	59.5	142.4	11,300	*	11,100		62.9	141.3	8,900	*	8,900	*	6,700	*	90
100	60	100	55.2	135.4	10,200	*	9,500		58.6	134.4	8,100	*	8,100	*	6,300	*	100
100	60	110	50.7	127.3	9,200	*	8,100		54.0	126.2	7,500	*	7,500	*	5,900	*	110
100	60	120	45.8	117.8	8,400	*	7,000		49.1	116.5	7,000	*	7,000	*	5,600	*	120
100	60	130	40.4	106.3	7,500		6,100		43.6	104.9	6,500	*	6,300		5,300	*	130
100	60	140	34.3	92.3	6,600		5,300		37.4	90.6	6,200	*	5,400				140
100	60	150	27.0	74.1	5,800		4,600										150
110	30	35	78.2	144.4	24,000	*	24,000	*									35

LS-138H II - w/ 44" x 54" Tube Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
110	30	40	76.1	143.2	24,000 *	24,000 *	78.1	142.5	24,000 *	24,000 *	75.7	137.9	18,500 *	18,500 *	40	
110	30	50	71.9	140.1	24,000 *	24,000 *	73.9	139.5	24,000 *	24,000 *	71.3	133.9	17,300 *	17,300 *	50	
110	30	60	67.5	136.2	22,700	19,100	69.5	135.6	22,900 *	19,500	66.7	129.0	16,300 *	16,000	60	
110	30	70	63.1	131.3	18,200	15,500	65.0	130.7	18,500	15,700	62.0	123.0	15,200 *	13,100	70	
110	30	80	58.4	125.5	15,100	12,700	60.3	124.9	15,400	12,900	56.9	115.8	13,000	10,900	80	
110	30	90	53.5	118.5	12,700	10,600	55.3	117.8	12,900	10,800	51.5	107.1	11,100	9,200	90	
110	30	100	48.2	110.0	10,800	8,900	50.0	109.3	10,900	9,100	45.5	96.5	9,500	7,800	100	
110	30	110	42.4	99.7	9,300	7,600	44.2	98.9	9,400	7,700					110	
110	30	120	35.9	87.0	8,000	6,500	37.5	86.0	8,100	6,600					120	
110	30	130	28.0	70.3	6,900	5,600									130	
110	45	35	79.8	159.4	24,000 *	24,000 *									35	
110	45	40	77.9	158.3	24,000 *	24,000 *									40	
110	45	50	74.1	155.5	22,900 *	22,900 *	76.9	154.5	17,100 *	17,100 *	79.4	152.3	13,100 *	13,200 *	50	
110	45	60	70.3	151.9	20,000 *	19,300	73.0	151.0	16,800 *	16,800 *	75.5	148.7	11,900 *	11,900 *	60	
110	45	70	66.3	147.6	17,600 *	15,700	69.0	146.7	14,900 *	14,900 *	71.4	144.2	10,900 *	10,900 *	70	
110	45	80	62.2	142.4	15,400	12,900	64.9	141.5	13,400 *	13,200	67.3	138.9	10,100 *	10,100 *	80	
110	45	90	57.9	136.2	12,900	10,800	60.5	135.3	12,300 *	11,100	62.9	132.6	9,400 *	9,400 *	90	
110	45	100	53.4	129.0	11,000	9,100	56.0	128.0	11,200	9,400	58.2	125.2	8,800 *	8,800 *	100	
110	45	110	48.7	120.4	9,400	7,800	51.2	119.4	9,600	8,000	53.3	116.4	8,300 *	8,200	110	
110	45	120	43.5	110.2	8,200	6,700	45.9	109.1	8,300	6,800	47.9	105.8	7,900 *	7,000	120	
110	45	130	37.7	97.9	7,100	5,800	40.0	96.6	7,200	5,900					130	
110	45	140	31.0	82.4	6,200	5,000									140	
110	60	40	79.4	173.8	22,700 *	22,600 *									40	
110	60	50	76.0	171.2	19,100 *	19,100 *	79.4	170.2	14,700 *	14,700 *					50	
110	60	60	72.5	168.0	17,200 *	17,200 *	75.8	167.0	12,800 *	12,800 *	79.0	164.2	9,000 *	9,000 *	60	
110	60	70	68.9	164.1	15,400 *	15,400 *	72.2	163.1	11,400 *	11,400 *	75.3	160.2	8,200 *	8,200 *	70	
110	60	80	65.3	159.5	13,500 *	13,000	68.5	158.5	10,200 *	10,200 *	71.6	155.5	7,500 *	7,500 *	80	
110	60	90	61.5	154.1	12,000 *	10,900	64.7	153.0	9,300 *	9,300 *	67.7	149.9	6,900 *	6,900 *	90	
110	60	100	57.5	147.7	10,800 *	9,300	60.7	146.6	8,500 *	8,500 *	63.6	143.4	6,500 *	6,500 *	100	
110	60	110	53.4	140.3	9,600	7,900	56.6	139.2	7,800 *	7,800 *	59.4	135.8	6,100 *	6,100 *	110	

LS-138H II - w/ 44" x 54" Tube Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)			
			5 Degrees				15 Degrees				25 Degrees							
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)				
110	60	120	49.0	131.8	8,300	6,800	52.1	130.6	7,300	*	7,000	54.8	126.9	5,700	*	120		
110	60	130	44.3	121.7	7,200	5,900	47.4	120.4	6,800	*	6,100	49.9	116.4	5,400	*	130		
110	60	140	39.1	109.7	6,300	5,100	42.1	108.3	6,400	*	5,300					140		
110	60	150	33.3	95.1	5,600	4,400	36.1	93.4	5,700		4,500					150		
110	60	160	26.2	76.3	4,900	3,800										160		
120	30	35	79.0	154.6	24,000	*	24,000	*	78.9	152.9	24,000	*	24,000	*		35		
120	30	40	77.0	153.5	24,000	*	24,000	*	75.0	150.0	24,000	*	24,000	*		40		
120	30	50	73.1	150.6	24,000	*	24,000	*	70.9	146.4	22,600	*	19,300		18,900	*	50	
120	30	60	69.1	147.0	22,500	18,900			66.8	141.9	18,300		15,600		140.2	17,200	*	60
120	30	70	65.0	142.6	18,000	15,300			62.5	136.6	15,200		12,700		140.2	16,700	*	70
120	30	80	60.7	137.2	14,900	12,500			58.0	130.2	12,700		10,600		134.8	15,400		80
120	30	90	56.2	130.8	12,500	10,400			53.2	122.6	10,800		8,900		128.2	12,900		90
120	30	100	51.5	123.3	10,600	8,700			48.1	113.5	9,200		7,500		120.5	10,900		100
120	30	110	46.4	114.3	9,100	7,400			42.5	102.6	7,900		6,400		111.3	9,300		110
120	30	120	40.9	103.4	7,800	6,300			36.1	89.0	6,800		5,500				120	
120	30	130	34.6	90.0	6,700	5,400										130		
120	30	140	27.0	72.6	5,800	4,600										140		
120	45	40	78.7	168.6	24,000	*	24,000	*	77.7	165.0	17,600	*	17,600	*			40	
120	45	50	75.1	165.9	22,800	*	22,800	*	74.1	161.7	17,200	*	17,200	*	159.3	12,100	*	50
120	45	60	71.5	162.6	19,800	*	19,100		70.3	157.6	15,500	*	15,500	*	155.2	11,100	*	60
120	45	70	67.8	158.6	17,600	*	15,500		66.5	152.8	14,000	*	13,100		144.5	9,600	*	70
120	45	80	64.0	153.8	15,200	12,700			62.6	147.1	12,800	*	10,900		144.5	9,600	*	80
120	45	90	60.1	148.1	12,700	10,600			58.4	140.5	11,000		9,200		137.7	9,000	*	90
120	45	100	56.0	141.5	10,800	8,900			54.1	132.7	9,500		7,800		129.8	8,500	*	100
120	45	110	51.7	133.7	9,200	7,600			49.4	123.6	8,200		6,700		120.4	8,100	*	110
120	45	120	47.0	124.7	8,000	6,500			44.3	112.7	7,100		5,700				120	
120	45	130	42.0	114.0	6,900	5,600			38.6	99.7	6,100		4,900				130	
120	45	140	36.5	101.1	6,000	4,800										140		
120	45	150	30.0	84.9	5,200	4,100										150		

LS-138H II - w/ 44" x 54" Tube Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)		
			5 Degrees				15 Degrees				25 Degrees						
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)			
120	60	50	76.8	181.6	19,300	*	19,300	*	13,200	*	79.6	174.7	9,100	*	9,100	*	
120	60	60	73.5	178.6	17,200	*	17,200	*	76.7	177.5	13,200	*	76.2	171.0	8,300	*	
120	60	70	70.2	174.9	15,500	*	15,500	*	73.3	173.9	11,700	*	11,700	*	8,300	*	
120	60	80	66.7	170.6	13,800	*	12,800	69.8	169.5	10,600	*	10,600	*	72.7	166.5	7,700	*
120	60	90	63.2	165.6	12,400	*	10,700	66.3	164.5	9,600	*	9,600	*	69.1	161.4	7,100	*
120	60	100	59.6	159.7	10,900	9,100	62.6	158.6	8,800	*	8,800	*	65.3	155.3	6,600	*	
120	60	110	55.8	152.9	9,400	7,700	58.8	151.8	8,100	*	8,000	61.4	148.4	6,200	*	6,200	*
120	60	120	51.8	145.1	8,100	6,600	54.7	143.9	7,600	*	6,900	57.3	140.3	5,900	*	5,900	*
120	60	130	47.5	136.1	7,000	5,700	50.5	134.8	7,100	*	5,900	52.9	130.9	5,600	*	5,600	*
120	60	140	43.0	125.5	6,100	4,900	45.8	124.1	6,300	5,100	48.2	120.0	5,300	*	5,200	140	
120	60	150	38.0	113.1	5,400	4,200	40.7	111.5	5,500	4,400						150	
120	60	160	32.3	97.9	4,700	3,600										160	
130	30	35	79.6	164.8	24,000	*	24,000	*	24,000	*	24,000	*	24,000	*	19,300	*	35
130	30	40	77.8	163.8	24,000	*	24,000	*	79.6	163.1	24,000	*	24,000	*	19,300	*	40
130	30	50	74.2	161.1	24,000	*	24,000	*	75.9	160.5	24,000	*	24,000	*	19,300	*	50
130	30	60	70.5	157.7	22,300	18,700	72.2	157.1	22,500	*	19,100	73.8	155.4	17,600	*	17,600	*
130	30	70	66.6	153.6	17,800	15,100	68.3	153.0	18,100	15,400	69.9	151.2	17,100	*	15,700	70	
130	30	80	62.7	148.7	14,700	12,300	64.4	148.0	15,000	12,600	65.9	146.2	15,300	12,800	80		
130	30	90	58.6	142.8	12,300	10,200	60.3	142.2	12,500	10,400	61.7	140.3	12,700	10,600	90		
130	30	100	54.3	136.0	10,400	8,500	55.9	135.3	10,600	8,700	57.3	133.3	10,700	8,900	100		
130	30	110	49.8	127.9	8,900	7,200	51.4	127.2	9,000	7,400	52.7	125.0	9,100	7,500	110		
130	30	120	44.9	118.4	7,600	6,100	46.4	117.6	7,700	6,200	47.7	115.2	7,800	6,300	120		
130	30	130	39.5	107.0	6,500	5,200	41.0	106.1	6,600	5,300						130	
130	30	140	33.5	93.0	5,600	4,400	34.9	91.9	5,700	4,500						140	
130	30	150	26.1	74.9	4,900	3,700										150	
130	45	40	79.3	178.8	24,000	*	24,000	*	24,000	*	24,000	*	24,000	*	19,300	*	40
130	45	50	76.0	176.3	22,700	*	22,700	*	78.4	175.4	18,000	*	18,000	*	12,400	*	50
130	45	60	72.6	173.2	19,900	*	18,900	75.0	172.3	17,200	*	17,200	*	77.3	169.8	12,400	*
130	45	70	69.1	169.4	17,600	*	15,300	71.5	168.5	16,000	*	15,700	73.7	166.0	11,400	*	70
130	45	80	65.6	165.0	15,000	12,500	68.0	164.0	14,500	*	12,900	70.1	161.4	10,600	*	10,600	*

LS-138H II - w/ 44" x 54" Tube Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)		
			5 Degrees				15 Degrees				25 Degrees						
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)			
130	45	90	62.0	159.7	12,500	10,400	64.3	158.7	12,800	10,700	66.4	156.1	9,900	*	90		
130	45	100	58.2	153.6	10,600	8,700	60.5	152.6	10,900	9,000	62.5	149.8	9,300	*	9,200		
130	45	110	54.2	146.5	9,000	7,400	56.5	145.5	9,300	7,600	58.5	142.6	8,800	*	7,800		
130	45	120	50.0	138.3	7,800	6,300	52.3	137.2	8,000	6,500	54.2	134.2	8,100	6,600	120		
130	45	130	45.6	128.8	6,700	5,300	47.8	127.6	6,900	5,500	49.6	124.4	7,000	5,700	130		
130	45	140	40.7	117.6	5,800	4,600	42.9	116.3	5,900	4,700					140		
130	45	150	35.3	104.2	5,000	3,900	37.4	102.7	5,100	4,000					150		
130	45	160	29.0	87.4	4,400	3,300									160		
130	60	50	77.5	191.9	19,200	*	19,200	*	13,500	*	13,600	*			50		
130	60	60	74.4	189.1	17,200	*	17,200	*	12,100	*	12,100	*	181.6	8,500	*	8,500	
130	60	70	71.2	185.7	15,500	*	15,400	74.2	184.5	10,900	*	73.7	177.5	7,800	*	70	
130	60	80	68.0	181.6	13,800	*	12,600	71.0	180.5	10,900	*	73.7	177.5	7,800	*	80	
130	60	90	64.7	176.9	12,500	*	10,500	67.6	175.7	9,900	*	70.3	172.6	7,300	*	90	
130	60	100	61.3	171.4	10,700	8,800	64.2	170.2	9,100	*	9,100	*	66.8	167.0	6,800	*	100
130	60	110	57.8	165.1	9,200	7,500	60.7	163.9	8,400	*	7,800	63.2	160.6	6,400	*	110	
130	60	120	54.1	157.9	7,900	6,400	57.0	156.7	7,900	*	6,700	59.4	153.2	6,000	*	120	
130	60	130	50.3	149.7	6,800	5,500	53.1	148.4	7,100	5,700	55.5	144.7	5,700	*	5,700	*	130
130	60	140	46.2	140.2	5,900	4,700	48.9	138.8	6,100	4,900	51.2	134.9	5,500	*	5,100	*	140
130	60	150	41.8	129.2	5,200	4,000	44.4	127.7	5,300	4,200	46.6	123.4	5,300	*	4,300	*	150
130	60	160	36.9	116.3	4,500	3,400	39.5	114.6	4,600	3,500					160		
130	60	170	31.3	100.6	3,900	2,900									170		
140	30	40	78.6	174.0	24,000	*	24,000	*	24,000	*	24,000	*	78.3	169.2	19,600	*	19,600
140	30	50	75.1	171.5	24,000	*	24,000	*	76.8	170.9	24,000	*	78.3	169.2	19,600	*	50
140	30	60	71.6	168.4	22,100	18,500	73.3	167.7	21,900	*	18,900	74.8	166.0	18,000	*	18,000	
140	30	70	68.1	164.5	17,600	14,900	69.7	163.9	18,000	15,200	71.2	162.1	17,200	*	15,500		
140	30	80	64.4	159.9	14,600	12,100	66.0	159.3	14,800	12,400	67.4	157.5	15,100	12,600	80		
140	30	90	60.6	154.5	12,100	10,000	62.2	153.9	12,300	10,200	63.6	152.0	12,600	10,400	90		
140	30	100	56.7	148.2	10,200	8,300	58.2	147.5	10,400	8,500	59.6	145.6	10,600	8,700	100		
140	30	110	52.6	140.9	8,700	7,000	54.1	140.2	8,800	7,200	55.4	138.1	9,000	7,300	110		
140	30	120	48.2	132.4	7,400	5,900	49.7	131.6	7,500	6,000	50.9	129.4	7,600	6,100	120		

LS-138H II - w/ 44" x 54" Tube Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
140	30	130	43.5	122.4	6,300	5,000	44.9	121.5	6,400	5,100	46.1	119.1	6,500	5,200	130	
140	30	140	38.3	110.4	5,400	4,200	39.7	109.5	5,500	4,300					140	
140	30	150	32.4	95.9	4,700	3,500									150	
140	30	160	25.3	77.1	4,000	2,900									160	
140	45	40	79.9	189.0	24,000 *	24,000 *									40	
140	45	50	76.7	186.7	22,200 *	22,200 *	79.0	185.7	18,400 *	18,400 *					50	
140	45	60	73.6	183.8	19,400 *	18,700	75.8	182.8	17,200 *	17,200 *	78.0	180.3	12,600 *	12,600 *	60	
140	45	70	70.3	180.2	17,200 *	15,100	72.6	179.2	15,800 *	15,600	74.7	176.7	11,600 *	11,600 *	70	
140	45	80	67.0	176.0	14,800	12,300	69.2	175.0	14,400 *	12,700	71.3	172.5	10,800 *	10,800 *	80	
140	45	90	63.6	171.1	12,300	10,200	65.8	170.1	12,700	10,500	67.8	167.5	10,100 *	10,100 *	90	
140	45	100	60.1	165.4	10,400	8,500	62.3	164.4	10,700	8,800	64.2	161.7	9,500 *	9,100	100	
140	45	110	56.4	158.9	8,800	7,200	58.6	157.8	9,100	7,400	60.5	155.0	9,000 *	7,700	110	
140	45	120	52.6	151.4	7,600	6,100	54.7	150.3	7,800	6,300	56.6	147.3	8,000	6,500	120	
140	45	130	48.6	142.8	6,500	5,100	50.7	141.6	6,700	5,300	52.4	138.5	6,900	5,500	130	
140	45	140	44.3	132.8	5,600	4,300	46.3	131.6	5,800	4,500	47.9	128.2	5,900	4,600	140	
140	45	150	39.6	121.1	4,800	3,700	41.5	119.8	5,000	3,800					150	
140	45	160	34.3	107.2	4,200	3,100	36.2	105.6	4,300	3,200					160	
140	45	170	28.2	89.9	3,600	2,600									170	
140	60	50	78.1	202.2	19,000 *	19,000 *									50	
140	60	60	75.2	199.5	17,200 *	17,200 *	78.0	198.4	13,900 *	13,900 *					60	
140	60	70	72.2	196.3	15,200 *	15,200 *	75.0	195.1	12,400 *	12,400 *	77.7	192.2	8,600 *	8,600 *	70	
140	60	80	69.2	192.5	13,600 *	12,400	72.0	191.3	11,200 *	11,200 *	74.6	188.3	8,000 *	8,000 *	80	
140	60	90	66.1	188.0	12,300 *	10,300	68.9	186.9	10,300 *	10,300 *	71.4	183.7	7,400 *	7,400 *	90	
140	60	100	62.9	182.9	10,500	8,600	65.6	181.7	9,400 *	9,000	68.1	178.5	6,900 *	6,900 *	100	
140	60	110	59.6	177.0	9,000	7,300	62.3	175.8	8,700 *	7,600	64.8	172.5	6,500 *	6,500 *	110	
140	60	120	56.2	170.3	7,700	6,200	58.9	169.1	8,000	6,500	61.3	165.6	6,200 *	6,200 *	120	
140	60	130	52.7	162.7	6,600	5,200	55.3	161.5	6,900	5,500	57.6	157.8	5,900 *	5,700	130	
140	60	140	48.9	154.1	5,700	4,500	51.5	152.8	5,900	4,700	53.8	148.9	5,600 *	4,900	140	
140	60	150	44.9	144.2	4,900	3,800	47.5	142.8	5,100	4,000	49.6	138.6	5,300	4,100	150	
140	60	160	40.6	132.8	4,300	3,200	43.1	131.2	4,400	3,400					160	

LS-138H II - w/ 44" x 54" Tube Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
140	60	170	35.9	119.4	3,700	2,700	38.3	117.6	3,800	2,800					170	
140	60	180	30.5	103.2	3,200	2,200									180	
150	30	40	79.2	184.2	24,000 *	24,000 *									40	
150	30	50	76.0	181.9	24,000 *	23,900	77.5	181.2	23,700 *	23,700 *	79.0	179.6	19,900 *	19,900 *	50	
150	30	60	72.7	178.9	21,900	18,300	74.2	178.3	21,300 *	18,700	75.7	176.6	18,400 *	18,300 *	60	
150	30	70	69.3	175.3	17,400	14,700	70.9	174.7	17,800	15,000	72.3	172.9	17,000 *	15,400	70	
150	30	80	65.9	171.0	14,400	11,900	67.4	170.4	14,700	12,200	68.8	168.6	14,900	12,500	80	
150	30	90	62.4	166.0	11,900	9,800	63.9	165.3	12,200	10,000	65.2	163.5	12,400	10,300	90	
150	30	100	58.8	160.2	10,000	8,100	60.2	159.5	10,200	8,300	61.5	157.6	10,400	8,500	100	
150	30	110	55.0	153.4	8,400	6,800	56.4	152.7	8,600	7,000	57.7	150.7	8,800	7,100	110	
150	30	120	51.0	145.7	7,200	5,700	52.4	144.9	7,300	5,800	53.6	142.8	7,500	6,000	120	
150	30	130	46.7	136.7	6,100	4,800	48.1	135.9	6,300	4,900	49.3	133.6	6,400	5,000	130	
150	30	140	42.2	126.2	5,200	4,000	43.5	125.3	5,300	4,100					140	
150	30	150	37.2	113.8	4,500	3,300	38.5	112.8	4,600	3,400					150	
150	30	160	31.5	98.7	3,800	2,700									160	
150	45	50	77.4	197.0	21,600 *	21,600 *	79.6	196.0	18,800 *	18,800 *					50	
150	45	60	74.4	194.2	19,100 *	18,500	76.6	193.2	17,200 *	17,200 *	78.6	190.8	12,800 *	12,800 *	60	
150	45	70	71.4	190.9	17,000 *	14,900	73.5	189.9	15,600 *	15,400	75.5	187.4	11,800 *	11,800 *	70	
150	45	80	68.2	186.9	14,600	12,100	70.4	185.9	14,200 *	12,500	72.3	183.4	11,000 *	11,000 *	80	
150	45	90	65.0	182.3	12,100	10,000	67.2	181.3	12,500	10,300	69.1	178.7	10,300 *	10,300 *	90	
150	45	100	61.8	177.0	10,200	8,300	63.8	176.0	10,500	8,600	65.7	173.3	9,700 *	8,900	100	
150	45	110	58.4	170.9	8,600	7,000	60.4	169.9	8,900	7,200	62.2	167.1	9,200	7,500	110	
150	45	120	54.8	164.0	7,400	5,900	56.9	162.9	7,600	6,100	58.6	160.0	7,800	6,300	120	
150	45	130	51.1	156.1	6,300	4,900	53.1	155.0	6,500	5,100	54.8	151.9	6,700	5,300	130	
150	45	140	47.2	147.1	5,400	4,100	49.2	145.9	5,600	4,300	50.8	142.6	5,700	4,500	140	
150	45	150	43.0	136.7	4,600	3,500	45.0	135.4	4,800	3,600	46.5	131.9	4,900	3,700	150	
150	45	160	38.5	124.5	3,900	2,900	40.3	123.1	4,100	3,000					160	
150	45	170	33.4	110.1	3,400	2,400									170	
150	45	180	27.4	92.2	2,800	1,900									180	

LS-138H II - w/ 44" x 54" Tube Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
150	60	50	78.7	212.5	18,700 *	18,700 *									50	
150	60	60	75.9	209.9	16,900 *	16,900 *	78.6	208.8	14,200 *	14,200 *					60	
150	60	70	73.1	206.9	15,100 *	15,100	75.8	205.7	12,700 *	12,700 *	78.3	202.7	8,700 *	8,700 *	70	
150	60	80	70.2	203.2	13,500 *	12,200	72.9	202.1	11,500 *	11,600 *	75.4	199.0	8,100 *	8,100 *	80	
150	60	90	67.3	199.0	12,200	10,100	69.9	197.8	10,600 *	10,600 *	72.4	194.7	7,600 *	7,600 *	90	
150	60	100	64.3	194.2	10,300	8,400	66.9	193.0	9,700 *	8,900	69.3	189.8	7,100 *	7,100 *	100	
150	60	110	61.2	188.7	8,800	7,100	63.8	187.5	9,000 *	7,400	66.2	184.1	6,700 *	6,700 *	110	
150	60	120	58.0	182.5	7,500	6,000	60.6	181.2	7,800	6,300	62.9	177.7	6,300 *	6,300 *	120	
150	60	130	54.7	175.4	6,400	5,000	57.3	174.1	6,700	5,300	59.5	170.5	6,000 *	5,600	130	
150	60	140	51.3	167.4	5,500	4,200	53.8	166.1	5,800	4,500	55.9	162.3	5,700 *	4,700	140	
150	60	150	47.6	158.4	4,700	3,600	50.1	157.0	4,900	3,800	52.2	153.0	5,100	4,000	150	
150	60	160	43.8	148.1	4,100	3,000	46.2	146.6	4,200	3,200	48.2	142.3	4,400	3,300	160	
150	60	170	39.6	136.3	3,500	2,500	41.9	134.7	3,600	2,600					170	
150	60	180	35.0	122.4	2,900	2,000	37.3	120.6	3,100	2,100					180	
150	60	190	29.7	105.7	2,500	1,600									190	
160	30	40	79.8	194.4	24,000 *	24,000 *									40	
160	30	50	76.7	192.2	24,000 *	23,700	78.2	191.5	22,600 *	22,600 *	79.6	189.9	20,000 *	20,000 *	50	
160	30	60	73.6	189.4	21,700	18,100	75.1	188.8	20,400 *	18,600	76.4	187.1	18,500 *	18,500 *	60	
160	30	70	70.5	186.0	17,200	14,500	71.9	185.4	17,600	14,900	73.3	183.6	16,900 *	15,200	70	
160	30	80	67.2	182.0	14,200	11,700	68.7	181.3	14,500	12,000	70.0	179.5	14,800	12,300	80	
160	30	90	64.0	177.3	11,700	9,600	65.4	176.6	12,000	9,900	66.7	174.8	12,200	10,100	90	
160	30	100	60.6	171.9	9,800	7,900	62.0	171.2	10,000	8,100	63.2	169.3	10,200	8,400	100	
160	30	110	57.0	165.6	8,200	6,600	58.4	164.9	8,400	6,800	59.6	162.9	8,600	6,900	110	
160	30	120	53.4	158.5	7,000	5,500	54.7	157.7	7,100	5,600	55.9	155.6	7,300	5,800	120	
160	30	130	49.5	150.3	5,900	4,600	50.9	149.5	6,100	4,700	52.0	147.3	6,200	4,800	130	
160	30	140	45.4	140.8	5,000	3,800	46.7	140.0	5,100	3,900	47.8	137.6	5,200	4,000	140	
160	30	150	41.0	129.9	4,300	3,100	42.3	129.0	4,400	3,200					150	
160	30	160	36.1	117.0	3,600	2,500	37.4	115.9	3,700	2,600					160	
160	30	170	30.6	101.4	3,000	2,000									170	
160	45	50	78.0	207.3	20,800 *	20,800 *									50	

LS-138H II - w/ 44" x 54" Tube Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
160	45	60	75.2	204.7	18,500 *	18,300	77.3	203.6	16,700 *	16,700	79.2	201.2	13,000 *	13,000 *	60	
160	45	70	72.3	201.5	17,000 *	14,700	74.3	200.5	15,200 *	15,200	76.3	198.0	12,000 *	12,000 *	70	
160	45	80	69.3	197.8	14,400	11,900	71.4	196.7	13,900 *	12,400	73.3	194.2	11,200 *	11,200 *	80	
160	45	90	66.3	193.4	11,900	9,800	68.4	192.4	12,300	10,200	70.2	189.8	10,500 *	10,500	90	
160	45	100	63.2	188.4	10,000	8,100	65.2	187.4	10,300	8,400	67.0	184.7	9,900 *	8,700	100	
160	45	110	60.1	182.7	8,400	6,800	62.0	181.7	8,700	7,000	63.8	178.9	9,000	7,300	110	
160	45	120	56.8	176.3	7,100	5,600	58.7	175.2	7,400	5,900	60.4	172.3	7,600	6,100	120	
160	45	130	53.4	169.0	6,100	4,700	55.3	167.9	6,300	4,900	56.9	164.8	6,500	5,100	130	
160	45	140	49.8	160.7	5,200	3,900	51.7	159.5	5,400	4,100	53.3	156.3	5,500	4,300	140	
160	45	150	46.0	151.2	4,400	3,200	47.8	150.0	4,600	3,400	49.3	146.6	4,700	3,600	150	
160	45	160	41.9	140.4	3,700	2,700	43.7	139.1	3,900	2,800					160	
160	45	170	37.5	127.9	3,100	2,100	39.2	126.4	3,300	2,300					170	
160	45	180	32.5	112.9	2,600	1,700									180	
160	45	190	26.7	94.5	2,200										190	
160	60	50	79.2	222.7	17,900 *	17,900 *									50	
160	60	60	76.6	220.3	16,400 *	16,400 *	79.1	219.1	14,100 *	14,100	*				60	
160	60	70	73.9	217.4	14,700 *	14,700 *	76.4	216.2	13,000 *	13,000 *	78.9	213.1	8,900 *	8,900 *	70	
160	60	80	71.1	213.9	13,300 *	12,100	73.7	212.7	11,800 *	11,800 *	76.1	209.6	8,200 *	8,200 *	80	
160	60	90	68.4	209.9	12,100	9,900	70.9	208.7	10,800 *	10,400	73.2	205.6	7,700 *	7,700 *	90	
160	60	100	65.5	205.4	10,100	8,200	68.0	204.2	10,000 *	8,700	70.4	200.9	7,200 *	7,200 *	100	
160	60	110	62.6	200.2	8,600	6,900	65.1	199.0	8,900	7,300	67.4	195.6	6,800 *	6,800 *	110	
160	60	120	59.6	194.3	7,300	5,800	62.1	193.1	7,600	6,100	64.3	189.6	6,500 *	6,400	120	
160	60	130	56.6	187.7	6,200	4,800	59.0	186.5	6,500	5,100	61.2	182.9	6,100 *	5,400	130	
160	60	140	53.4	180.3	5,300	4,000	55.8	179.0	5,600	4,300	57.9	175.3	5,800	4,500	140	
160	60	150	50.0	172.0	4,500	3,400	52.4	170.6	4,800	3,600	54.4	166.7	5,000	3,800	150	
160	60	160	46.5	162.6	3,800	2,800	48.8	161.2	4,000	3,000	50.7	157.0	4,200	3,100	160	
160	60	170	42.7	152.0	3,300	2,200	45.0	150.4	3,400	2,400	46.8	145.9	3,600	2,600	170	
160	60	180	38.6	139.7	2,700	1,800	40.9	138.0	2,900	1,900					180	
160	60	190	34.1	125.4	2,300		36.3	123.4	2,400	1,500					190	
160	60	200	29.0	108.2	1,900										200	

LS-138H II - w/ 44" x 54" Tube Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
170	30	50	77.4	202.5	21,500 *	21,500 *	78.8	201.8	20,200 *	20,200 *	77.1	197.5	16,300 *	16,300 *	50	
170	30	60	74.4	199.9	20,600 *	17,900	75.9	199.2	19,200 *	18,400	74.1	194.2	15,700 *	15,100	60	
170	30	70	71.5	196.6	16,900 *	14,300	72.9	196.0	17,400	14,700	71.1	190.4	14,600	12,100	70	
170	30	80	68.4	192.8	14,000	11,500	69.8	192.2	14,300	11,800	67.9	185.9	12,100	12,100	80	
170	30	90	65.3	188.4	11,500	9,400	66.7	187.7	11,800	9,700	64.7	180.8	10,100	9,900	90	
170	30	100	62.2	183.3	9,600	7,700	63.5	182.6	9,800	8,000	61.4	174.8	8,400	8,200	100	
170	30	110	58.9	177.5	8,000	6,400	60.2	176.8	8,300	6,600	57.9	168.1	7,100	6,800	110	
170	30	120	55.5	170.9	6,800	5,300	56.8	170.1	7,000	5,500	54.3	160.4	6,000	5,600	120	
170	30	130	51.9	163.3	5,700	4,400	53.2	162.6	5,900	4,500	50.5	151.6	5,100	4,600	130	
170	30	140	48.2	154.7	4,800	3,600	49.5	153.9	5,000	3,700	46.4	141.6	4,300	3,100	140	
170	30	150	44.2	144.9	4,100	2,900	45.4	144.0	4,200	3,000					150	
170	30	160	39.9	133.5	3,400	2,300	41.1	132.5	3,500	2,400					160	
170	30	170	35.2	120.1	2,800	1,800	36.3	119.0	2,900	1,900					170	
170	30	180	29.8	104.0	2,300										180	
170	45	50	78.6	217.6	18,800 *	18,800 *	77.9	214.0	15,400 *	15,400 *	79.7	211.5	12,900 *	12,900 *	50	
170	45	60	75.9	215.1	17,700 *	17,700 *	75.1	211.0	14,600 *	14,600 *	76.9	208.5	12,200 *	12,200 *	60	
170	45	70	73.1	212.0	16,300 *	14,500	72.3	207.5	13,400 *	12,200	74.1	204.9	11,400 *	11,400 *	70	
170	45	80	70.3	208.5	14,200	11,700	69.4	203.3	12,100	10,000	71.2	200.7	10,700 *	10,400	80	
170	45	90	67.5	204.4	11,700	9,600	66.5	198.6	10,100	8,300	68.2	195.9	10,100 *	9,000	90	
170	45	100	64.6	199.7	9,800	7,900	63.5	193.3	8,500	6,900	65.2	190.5	8,800	8,600	100	
170	45	110	61.6	194.3	8,200	6,500	60.4	187.2	7,200	5,700	62.0	184.3	7,500	6,000	110	
170	45	120	58.5	188.3	6,900	5,400	57.2	180.4	6,100	4,700	58.8	177.4	6,300	5,000	120	
170	45	130	55.3	181.5	5,900	4,500	53.8	172.6	5,200	3,900	55.4	169.5	5,400	4,100	130	
170	45	140	52.0	173.8	5,000	3,700	50.3	163.9	4,400	3,200	51.8	160.6	4,500	3,400	140	
170	45	150	48.5	165.1	4,200	3,000	46.6	154.0	3,700	2,600	48.0	150.6	3,800	2,700	150	
170	45	160	44.8	155.3	3,500	2,400	38.2	129.6	2,500	1,600					160	
170	45	170	40.9	144.1	2,900	1,900	42.6	142.7	3,100	2,100					170	
170	45	180	36.6	131.1	2,400	1,500									180	
170	45	190	31.7	115.7	2,000										190	
170	60	50	79.7	232.9	15,500 *	15,500 *									50	

LS-138H II - w/ 44" x 54" Tube Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
170	60	60	77.1	230.6	14,900 *	14,900 *	79.6	229.4	12,800 *	12,800 *	79.4	223.5	9,000 *	9,000 *	60	
170	60	70	74.6	227.8	14,200 *	14,200 *	77.1	226.6	12,400 *	12,400 *	76.7	220.2	8,400 *	8,400 *	70	
170	60	80	72.0	224.6	12,900 *	11,900	74.4	223.3	11,500 *	11,500 *	74.0	216.4	7,800 *	7,800 *	80	
170	60	90	69.4	220.8	11,800 *	9,700	71.8	219.6	10,600 *	10,300	71.3	211.9	7,400 *	7,400 *	90	
170	60	100	66.7	216.4	9,900	8,000	69.1	215.2	9,800 *	8,500	68.5	206.9	6,900 *	7,000 *	100	
170	60	110	63.9	211.5	8,300	6,700	66.3	210.3	8,800	7,100	65.6	201.3	6,600 *	6,300	110	
170	60	120	61.1	206.0	7,100	5,600	63.5	204.8	7,400	5,900	62.6	195.0	6,300 *	5,200	120	
170	60	130	58.2	199.8	6,000	4,600	60.5	198.5	6,300	4,900	59.5	187.9	5,600	4,400	130	
170	60	140	55.2	192.9	5,100	3,800	57.5	191.6	5,400	4,100	56.3	179.9	4,800	3,600	140	
170	60	150	52.1	185.1	4,300	3,100	54.4	183.8	4,600	3,400	53.0	171.0	4,100	3,000	150	
170	60	160	48.8	176.5	3,600	2,500	51.1	175.0	3,900	2,800	49.4	160.9	3,400	2,400	160	
170	60	170	45.4	166.7	3,000	2,000	47.6	165.2	3,200	2,200	45.6	149.4	2,800	1,900	170	
170	60	180	41.7	155.7	2,500	1,600	43.9	154.0	2,700	1,700	43.0	141.2	2,200	1,400	180	
170	60	190	37.7	143.0	2,100		39.8	141.2	2,200						190	
170	60	200	33.3	128.3	1,600		35.4	126.3	1,800						200	
180	30	50	78.0	212.8	19,100 *	19,100 *	79.3	212.1	18,000 *	18,000 *	77.8	207.9	14,600 *	14,600 *	50	
180	30	60	75.2	210.2	18,200 *	17,700	76.5	209.6	17,100 *	17,100 *	74.9	204.8	14,000 *	14,000 *	60	
180	30	70	72.4	207.2	16,500 *	14,100	73.7	206.5	15,500 *	14,500	72.0	201.2	13,400 *	12,000	70	
180	30	80	69.5	203.6	13,800	11,300	70.8	202.9	14,100	11,700	69.1	196.9	11,900	9,700	80	
180	30	90	66.6	199.4	11,300	9,200	67.9	198.8	11,600	9,500	66.0	192.1	9,900	8,000	90	
180	30	100	63.6	194.6	9,400	7,500	64.9	194.0	9,600	7,800	62.9	186.5	8,300	6,600	100	
180	30	110	60.5	189.2	7,800	6,200	61.8	188.5	8,100	6,400	59.7	180.2	6,900	5,400	110	
180	30	120	57.3	183.0	6,600	5,100	58.6	182.3	6,800	5,300	56.3	173.1	5,800	4,500	120	
180	30	130	54.0	176.0	5,500	4,100	55.3	175.2	5,700	4,300	52.8	165.1	4,900	3,600	130	
180	30	140	50.6	168.0	4,600	3,400	51.8	167.3	4,800	3,500	49.1	155.9	4,100	2,900	140	
180	30	150	47.0	159.1	3,800	2,700	48.1	158.2	4,000	2,800	45.1	145.4	3,400	2,300	150	
180	30	160	43.1	148.8	3,200	2,100	44.3	147.9	3,300	2,200	42.0	136.0	2,700	1,700	160	
180	30	170	38.9	137.0	2,600	1,600	40.0	136.0	2,700	1,700					170	
180	30	180	34.3	123.2	2,100		35.4	122.1	2,100						180	
180	45	50	79.1	227.8	16,000 *	16,000 *									50	

LS-138H II - w/ 44" x 54" Tube Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

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

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
180	45	60	76.5	225.4	15,300 *	15,300 *	78.4	224.3	13,800 *	13,800 *	77.5	218.9	11,300 *	11,300 *	60	
180	45	70	73.9	222.5	14,600 *	14,300	75.8	221.5	13,300 *	13,300 *	74.8	215.5	10,800 *	10,800 *	70	
180	45	80	71.2	219.2	14,000 *	11,500	73.1	218.1	12,700 *	12,000	72.1	211.6	10,500 *	10,200	80	
180	45	90	68.5	215.3	11,500	9,400	70.4	214.2	11,900 *	9,800	69.3	207.0	10,100 *	10,200	90	
180	45	100	65.8	210.8	9,600	7,700	67.6	209.7	10,000	8,100	66.4	201.9	8,700	8,400	100	
180	45	110	63.0	205.8	8,000	6,300	64.8	204.7	8,400	6,700	63.4	196.1	7,300	7,000	110	
180	45	120	60.1	200.1	6,700	5,200	61.9	199.0	7,000	5,500	57.2	182.3	5,200	4,800	120	
180	45	130	57.1	193.7	5,700	4,300	58.9	192.6	5,900	4,600	50.4	164.8	3,600	3,200	130	
180	45	140	54.0	186.5	4,800	3,500	55.7	185.4	5,000	3,700	46.7	154.4	3,000	2,000	140	
180	45	150	50.7	178.5	4,000	2,800	52.5	177.3	4,200	3,000	41.5	146.2	2,300	2,000	150	
180	45	160	47.4	169.4	3,300	2,200	49.1	168.2	3,500	2,400	38.9	144.4	1,600	1,600	160	
180	45	170	43.8	159.3	2,700	1,700	45.4	157.9	2,900	1,900	42.8	157.6	2,000	1,600	170	
180	45	180	39.9	147.6	2,200		41.5	146.2	2,300		40.0	153.0	2,000	1,600	180	
180	45	190	35.7	134.2	1,700		37.3	132.7	1,900		38.9	144.4	1,600	1,600	190	
180	60	60	77.7	240.9	13,400 *	13,400 *	77.6	237.0	11,200 *	11,200 *	79.8	233.9	9,000 *	9,000 *	60	
180	60	70	75.2	238.3	12,900 *	12,900 *	75.1	233.9	10,800 *	10,800 *	77.3	230.7	8,500 *	8,500 *	70	
180	60	80	72.8	235.1	12,300 *	11,700	75.1	230.3	10,200 *	10,100	74.7	227.1	7,900 *	7,900 *	80	
180	60	90	70.2	231.5	11,300 *	9,500	72.6	226.2	9,400 *	8,300	72.1	222.9	7,500 *	7,500 *	90	
180	60	100	67.7	227.4	9,700	7,800	70.0	222.2	9,400 *	8,600	69.5	218.1	7,100 *	7,100 *	100	
180	60	110	65.1	222.7	8,100	6,500	67.4	221.5	8,600	6,900	66.7	212.8	6,700 *	6,100	110	
180	60	120	62.4	217.5	6,900	5,300	64.7	216.2	7,300	5,700	63.9	206.8	6,400 *	6,100	120	
180	60	130	59.7	211.7	5,800	4,400	61.9	210.4	6,100	4,800	61.1	200.2	5,500	4,200	130	
180	60	140	56.9	205.1	4,900	3,600	59.1	203.8	5,200	3,900	58.1	192.7	4,600	3,400	140	
180	60	150	53.9	197.9	4,100	2,900	56.1	196.5	4,400	3,200	54.9	184.4	3,900	2,800	150	
180	60	160	50.9	189.8	3,400	2,300	53.1	188.4	3,700	2,600	51.6	175.1	3,200	2,200	160	
180	60	170	47.7	180.8	2,800	1,800	49.9	179.3	3,000	2,000	48.2	164.7	2,700	1,700	170	
180	60	180	44.4	170.7	2,300		46.5	169.1	2,500	1,500	47.0	153.0	1,600	1,600	180	
180	60	190	40.8	159.3	1,800		42.8	157.6	2,000		40.0	153.0	1,600	1,600	190	
180	60	200					38.9	144.4	1,600						200	

LS-138H II - w/ 44" x 54" Tube Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctwt

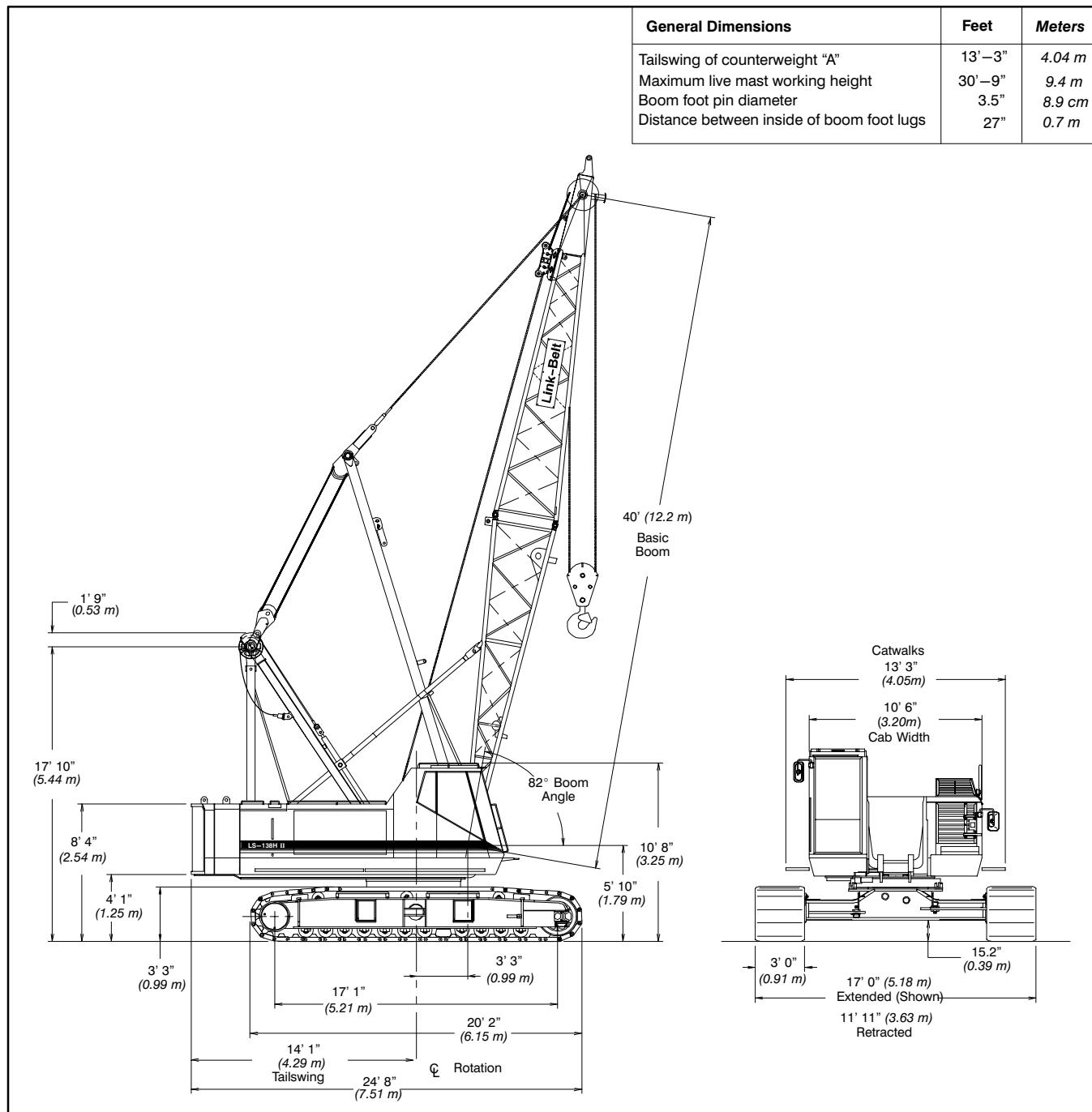
Refer to the Tubular Jib Notes for Open Throat Boom in this Crane Rating Manual before operating the machine.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)	
			5 Degrees				15 Degrees				25 Degrees					
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lbs)	360° Jib Capacity (lbs)		
190	30	50	78.5	223.0	16,100 *	16,100 *	79.8	222.3	15,200 *	15,200 *	78.4	218.2	13,100 *	13,100 *	50	
190	30	60	75.9	220.6	15,300 *	15,300 *	77.2	219.9	14,500 *	14,500 *	75.6	215.3	12,500 *	12,500 *	60	
190	30	70	73.2	217.7	14,600 *	13,900	74.5	217.0	13,800 *	13,800 *	72.9	211.9	12,000 *	11,800	70	
190	30	80	70.5	214.3	13,600	11,100	71.7	213.6	13,100 *	11,500	70.1	207.9	11,400 *	9,600	80	
190	30	90	67.7	210.3	11,100	9,000	68.9	209.7	11,400	9,300	67.2	203.3	9,700	7,800	90	
190	30	100	64.9	205.8	9,200	7,300	66.1	205.1	9,500	7,600	64.3	198.0	8,100	6,400	100	
190	30	110	62.0	200.7	7,600	6,000	63.2	200.0	7,900	6,200	61.2	192.1	6,800	5,200	110	
190	30	120	59.0	194.8	6,400	4,900	60.2	194.1	6,600	5,100	58.1	185.5	5,600	4,300	120	
190	30	130	55.9	188.3	5,300	3,900	57.1	187.5	5,500	4,100	54.8	178.0	4,700	3,400	130	
190	30	140	52.7	180.9	4,400	3,100	53.9	180.1	4,600	3,300	51.4	169.6	3,900	2,700	140	
190	30	150	49.3	172.6	3,600	2,500	50.5	171.8	3,800	2,600	47.8	160.0	3,200	2,100	150	
190	30	160	45.8	163.3	2,800 *	1,900	46.9	162.4	3,100	2,000	43.1	151.7	2,000 *	1,500	160	
190	30	170	42.0	152.6	1,500 *										170	

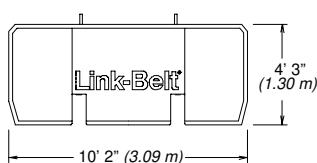
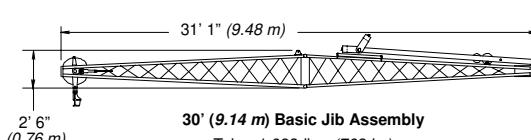
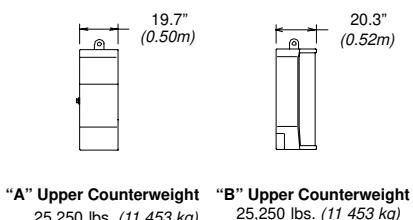
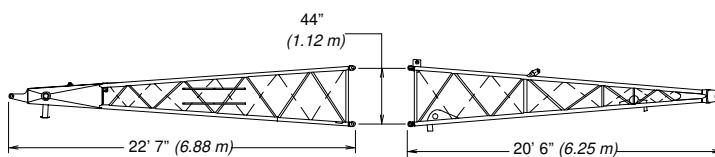
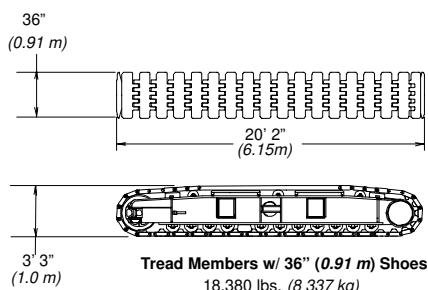
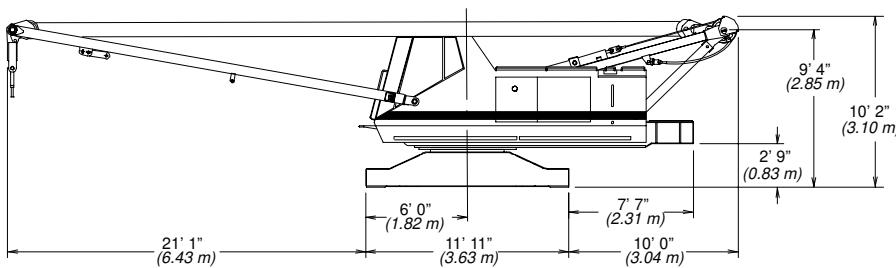
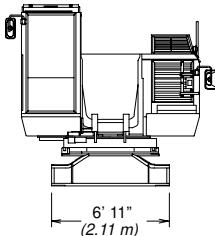
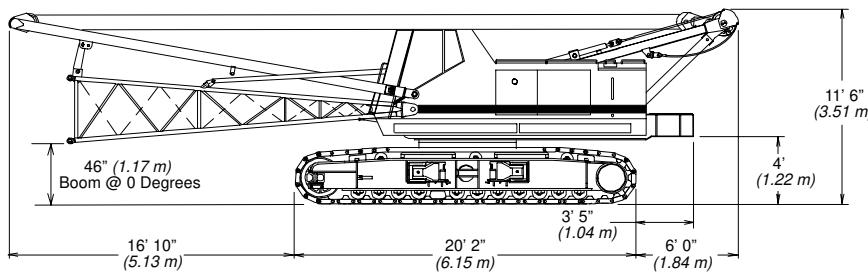
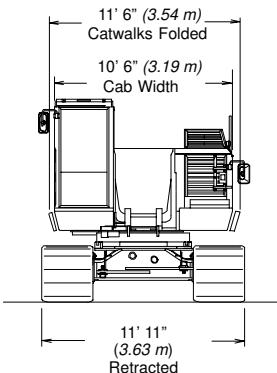
Specifications

Lattice Boom Crawler Crane

LS-138H II 80-ton (72.57 metric ton) HYLAB Series



LS-138H II Machine Transport Weights – approximate



LS-138H II Transportation Weights – approximate

Base Machine: Rigid Boom Backstops, 27 Gallons (102.2 L) of Fuel, Catwalks (front right and left side), 20' (6.10 m) Tube Base Section, 24' (6.10m) Live Mast, Bridle & Spreader Bar, 14-Part Boom Hoist Reeving, 700' (189 m) of Type 'DB' Front Hoist Rope, 540' (165m) of Type 'RB' Rear Hoist Rope.

Item Description	Gross Weight		Transport Loads			Notes and Load Summary
	lbs.	kg	Load #1	Load #2	Load #3	
Base Machine	89,751	40 710	1			Numbers in the load columns to the left represent quantities.
Add "A" Counterweight	25,250	11 453			1	Estimated transport load assumes the load out consist of 200' (60.96 m) of tube boom + 60' (18.29 m) of jib with full counterweight.
Add "B" Counterweight	25,250	11 453		1		
Add Hydraulic Third Drum w/o rope	1,345	610				
Add 20' (6.1m) Tube Top Section	2,726	1 237		1		
Add 10' (3.05m) Tubular Extension w/pins & pendants	677	307			1	
Add 20' (6.1m) Tubular Extension w/pins & pendants	1,076	488		1	2	
Add 30' (9.1m) Tubular Extension w/pins & pendants	1,481	672		2	1	
Add 20' (6.1m) Angle Base Section at 0 degrees	2,853	1 294				
Add 20' (6.1m) Angle Top Section with 4 Lifting Sheaves	3,500	1 588				
Add 20' (6.1m) Angle Top Section with 3 Lifting Sheaves	3,400	1 592				
Add 20' (6.1m) Angle Top Section with 2 Lifting Sheaves	3,300	1 497				
Add 10' (3.05m) Angular Extension w/pins & pendants	1,040	472				
Add 20' (6.1m) Angular Extension w/pins & pendants	1,680	762				
Add 30' (9.1m) Angular Extension w/pins & pendants	2,400	1 089				
Add Bridle & Spreader Bar Only (No Live Mast)	990	449				
Add Tagline Winder	760	345				
Add Fairleader	500	227				
Add PAT DS-350	100	45				
Add 30' (9.1m) Tubular Jib	1,683	763			1	
Add 15' (4.6m) Tubular Jib Extension	317	144			2	
Add 5' (1.5m) Auxiliary Tip Extension	800	363				
Add Holding Rope – 0.88" X 165' Type 'DB'	234	106				
Add Closing Rope – 0.88" X 220' Type 'DB'	312	142				
Add Inhaul Rope – 0.88" X 80' Type 'M'	108	49				
Add Hoist Rope – 0.88" x 165' Type 'DB'	234	106				
Add Jib Wire Rope – 0.88" X 700' Type 'DB'	994	451				
Add 3rd Drum Wire Rope 0.63" X 385' Type 'ZB'	312	142				
Add 3rd Drum Wire Rope 0.63" X 385' Type 'WB'	296	134				
Add Auxiliary Lifting Bail	200	91				
Add 15-ton (13.6mt) Hook Ball – Non Swivel	750	340		1		
Add 15-ton (13.6mt) Hook Ball – Swivel	760	345				
Add 80-ton (72.6mt) 4 Sheave Hook Block	2,325	1 055		1		
Remove 20' Tube Base Section	-1,988	-902				
Remove Front Hoist Rope 0.88" X 700' Type 'DB'	-944	-451				
Remove Jib Wire Rope 0.88" X 540' Type 'RB'	-810	-367				
Remove 24' (7.3m) Live Mast with Bridle & Spreader Bar	-2,618	-1 188				
Add 50 gallons (189.3L) of Fuel	362	164				

Machine Working Weight

Option	Description	Gross Weight lbs. (kg)	Ground Bearing Pressure psi (kg/cm ²)
1	Base Machine equipped with 40' (12.2 m) of tubular boom, live mast, "A" counterweight, 700' (213 m) front hoist rope, 540' (164.6 m) rear hoist rope, 80-ton (72.6 mt) hook block, 77 gallons (291.4 L) of fuel, and a 200 lbs. (90.7kg) operator.	121,097 (54 929)	7.71 (0.54)
2	Option #1 plus "B" counterweight, midpoint pendants, and 160' (48.77m) of boom extensions to obtain 200' (60.96 m) of main boom.	155,627 (70 591)	9.92 (0.70)
3	Option #2 plus 60' (18.29 m) of jib and 15-ton (13.61 mt) hookball – subtract 20' (6.10 m) of boom extension and midpoint pendants to obtain maximum 180' + 60' (54.86 + 18.29 m) of main boom + jib.	157,452 (71 419)	10.03 (0.70)
4	Base Machine equipped with 40' (12.20 m) of angle boom, live mast, "A" counterweight, 700' (213 m) front hoist rope, 540' (164.59 m) rear hoist rope, 80-ton (72.57 mt) hook block, 77 gallons (291.4 L) of fuel, and a 200 lbs. (90.7kg) operator.	121,722 (55 212)	7.76 (0.54)
5	Option #4 plus "B" counterweight and 110' (33.55 m) of boom extensions to obtain 150' (45.72 m) of main boom.	156,172 (70 838)	9.95 (0.71)
6	Option #5 plus 60' (18.29 m) of jib and 15-ton (13.61 mt) hookball to obtain maximum 150' + 60' (45.72 + 18.29 m) of main boom + jib.	155,387 (70 482)	9.90 (0.70)

Notes:

1. Ground bearing pressure is based on the total weight distributed evenly over the track contact area.
2. Total contact area for 36" (0.91m) track shoes is 15,689 in² (101,219cm²).

Attachment Options

■ 40'-200' Tube Boom (12.19 – 60.96 m)

Basic Tube Boom – 40' (12.19 m) two-piece design that utilizes a 20' (6.10 m) base section and a 20' (6.10 m) open throat top section with in-line connecting pins on 54" (1.37 m) wide and 44" (1.12 m) deep centers.

- Boom feet on 50" (1.27 m) centers
- 3" (76.2 mm) 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
- Rigid sheave guards
- Five 18" (0.46 m) root diameter steel sheaves mounted on sealed anti-friction bearings
- Mechanical boom angle indicator

Optional – Handling system that mounts in the boom base to allow loading/unloading of a counterweight or a boom section onto transport trailers.

Tube Boom Extensions – The following table provides the lengths available and the suggested quantity to obtain maximum boom in 10' (3.05 m) increments. Midpoint pendant connections are required at 80' (24.38 m) for 190' (57.91 m) and 200' (60.96 m) boom lengths.

Tube Boom Extensions	Suggested Quantity for Max. Boom
10' (3.05 m)	1
20' (6.10 m)	1
30' (9.14 m)	4

- Deflector roller on top of each section
- Appropriate length pendants
- Maximum tube boom tip height of 204' (62.18 m)

■ 40'-150' Angle Boom (12.19 – 45.72 m)

Basic Angle Boom – 40' (12.19 m) two-piece design that utilizes a 20' (6.10 m) base section and a 20' (6.10 m) open throat top section with in-line connecting pins. Boom extensions are 48" (1.22 m) wide and 48" (1.22 m) deep at outside dimensions of angles.

- Boom feet on 50" (1.27 m) centers
- 4" X 4" X 0.38" (101.6 x 101.6 x 9.5 mm) angle 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
- Rigid sheave guards
- Four 18" (0.46 m) root diameter steel sheaves mounted on sealed anti-friction bearings
- Mechanical boom angle indicator

Optional – Three sheave head machinery for clam applications or two wide sheaves for dragline applications

Angle Boom Extensions – The following table provides the lengths available and the suggested quantity to obtain maximum boom in 10' (3.05 m) increments. Midpoint pendant connections are not required.

Angle Boom Extensions	Suggested Quantity for Max. Boom
10' (3.05 m)	1
20' (6.10 m)	2
30' (9.14 m)	2

- Deflector roller on top of each section
- Appropriate length pendants
- Maximum angle boom tip height of 154' (46.94 m)

■ 30' – 60' Tube Jib (9.14 – 18.29 m)

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

- 2" (50.8 mm) diameter tubular chords
- One 18.5" (0.47 m) root diameter steel sheave mounted on sealed anti-friction bearings.
- 15' (0.38 mm) jib extensions provide jib lengths at 45' (13.76 m) and 60' (18.29 m)
- Jib offset angles at 5, 15 and 25 degrees
- Maximum tip height of boom + jib is 242' (73.76 m) using the tube boom and 204' (65.23 m) using the angle boom

■ Auxiliary 5' (1.52 m) Tip Extension

Designed to use instead of a jib to provide clearance between working hoist lines. The extension is equipped with a single 15.25" (0.39 m) root diameter steel sheave mounted on sealed anti-friction bearings. Maximum capacity is 9-ton (8.16 mt).

■ Boom Hoist System

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

- Retractable gantry frame
- Pin-on bail frame
- 14-part reeving with 5/8" (14.7 mm) type 'W' wire rope
- Bridle assembly
- 24' (7.31 m) live mast (optional for angle attachment)
- Two 1.25" (31.75 mm) pendants
- Telescopic boom backstops (tubular-type)
- Sheaves contain sealed anti-friction bearings
- Boom speed from 10°–70° is 52 seconds with no load and 94 seconds with full load. Speed was determined using 100' (30.5 m) of tube boom

Revolving Upperstructure

■ Frame

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

■ Engine

Isuzu A-6SDITQB with oil cooler, oil cooler, air cleaner, fuel filter, water separator, hour meter, tachometer, and electrical shutdown.	
Number of cylinders	6
Bore and stroke – in (mm)	4.72 x 5.71 (120 x 145)
Piston displacement – in ³ (cm ³)	600 (9 839)
Engine rpm at full load speed	2,100
Hi-idle rpm	2,325
Full load speed – horsepower (kw)	207 (155)
Peak torque – ft lb (joule)	513 (696)
Peak torque – rpm	1,400
Electrical system	24 volt
Batteries	2–12 volt
Approximate fuel consumption	Gal./hr (L/hr)
100% H.P.	11.50 (43.53)
75% H.P.	8.60 (32.55)
50% H.P.	5.75 (21.77)
25% H.P.	2.87 (10.86)

■ 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 4,000 psi (281.24 kg/cm²) and 64 gal/min (243 l/min) powers load hoist drums, boom hoist drum, optional third drum, and travel.
- One fixed displacement gear type pump operating at 3,600 psi (250 kg/cm²) and 32 gal/min (121 l/min) powers the swing, and treadmember retract cylinders.
- One fixed displacement gear type pump operating at 1,250 psi (85 kg/cm²) and 8 gal/min (32 l/min) powers the pilot control system, clutches, brakes, pump controls, counterweight removal system, and optional handling system mounted in boom base.

Pump Control ("Fine Inch") mode

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

Hydraulic Reservoir – 78 US gallons (295 l), equipped with sight level gauge. Diffusers built in for deaeration.

Filtration – One 10 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)
- 0.88" (22.22 mm) grooved lagging
- Drum pawl controlled manually
- Electronic drum rotation indicators
- Mounted on anti-friction bearings
- 17.64" (0.45 m) root diameter
- 29.92" (0.76 m) flange diameter
- 19.84" (0.50 m) width

Note: The freefall operational mode is designed to prevent load lowering even if the freefall switch is accidentally activated. The automatic brake mode meets all OSHA requirements for personnel handling.

Drum Clutches – Speed-o-Matic™ power hydraulic two shoe clutch design that uses a 20" (0.51 mm) diameter x 5" (127 mm) wide shoe that internally expands to provide load control. Swept area is 314 in² (2 026 cm²).

■ Optional Front Mounted Third Hoist Drum

The hydraulic winch is pinned to the front of the upper frame and is used in conjunction with a fleeting sheave and 3-sheave idler assembly to run the wire rope over the boom top section.

- Free-spooling capability for pile driving applications
- 10.63" (0.27 m) root diameter
- 20" (0.51 m) outside flange diameter
- 13.5" (0.34 m) 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
- 5/8" (15.88 mm) grooved lagging
- Drum pawl controlled manually
- Mounted on anti-friction bearings
- 12.60" (0.31 m) root diameter
- 24.41" (0.62 m) flange diameter
- 9.57" (0.24 m) width

■ Swing System

Mechanical linkage controls the bi-directional axial piston motor and the planetary gear reduction unit to provide positive control under all load conditions.

- Spring applied, hydraulically released, 360 degree multi-plate brake
- Free swing mode when lever is in neutral position
- Two position positive house lock
- Audio/Visual swing alarm
- Maximum swing speed is 2.8 rpm

■ Upper Counterweight

Consist of a two piece design that can be easily lowered to the ground using the gantry.

- 25,250 lbs. (11 453 kg) "A" upper counterweight
- 25,250 lbs. (11 453 kg) "B" upper counterweight can be added to maximize capacities

■ Operator's Cab and Controls

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

- All tinted/tempered safety glass
- Sliding entry door and front window
- Swing up roof window with wiper
- Door and window locks
- Heater with circulating fan
- Air conditioner
- Sun visor
- Engine instrumentation panel (tachometer, voltmeter, engine oil pressure, engine water temperature, fuel level, hydraulic oil temperature, and service monitor system)
- Mechanical drum rotation indicators
- Six way adjustable seat
- Dry chemical fire extinguisher
- Hand and foot throttle
- Single axis, armchair control levers
- Swing lever with swing brake and horn located on handle
- Bubble type level

(continued on page 7)

LS-138H II Load Hoisting Performance

Available line speed and line pull – based on Isuzu A-6SDITQB at 2,000 rpm full load speed. Line pulls are not based on wire rope strength. See wire rope capacity chart for maximum permissible single part of line working loads.

Rope Layer	Front or Rear Drum – 7/8" (22.22 mm) Wire Rope											
	Maximum Line Pull		No Load Line Speed		Full Load Line Speed		Pitch Diameter		Layer		Total	
	lbs.	kg	ft/min.	m/min	ft/min.	m/min	in.	mm	ft.	m	ft.	m
1	32,430	14 710	298	91	113	35	18.5	470	100	30	100	30
2	29,630	13 440	326	99	124	38	20.3	516	109	33	209	64
3	27,274	12 372	354	108	135	41	22.0	559	119	36	327	100
4	25,266	11 461	382	116	145	44	23.8	605	128	39	455	139
5	23,533	10 674	410	125	156	48	25.5	648	137	42	593	181
6	22,023	9 989	438	134	167	51	27.3	693	147	45	740	225
7	–	–	–	–	–	–	29.0	737	156	48	896	273

Rope Layer	Boom Hoist Drum – 5/8" (15.88 mm) Wire Rope											
	Maximum Line Pull		No Load Line Speed		Full Load Line Speed		Pitch Diameter		Layer		Total	
	lbs.	kg	ft/min.	m/min	ft/min.	m/min	in.	mm	ft.	m	ft.	m
1	17 832	8 089	196	60	109	33	13.2	336	48	15	48	15
2	16 282	7 385	214	65	119	36	14.5	368	52	16	100	31
3	14 979	6 794	233	71	130	40	15.7	400	57	17	157	48
4	13 869	6 291	251	77	140	43	17.0	432	61	19	218	67
5	12 913	5 857	270	82	151	46	18.3	464	66	20	284	87
6	11 080	5 479	289	88	161	49	19.5	496	70	21	355	108
7	11 348	5 147	307	94	171	52	20.8	528	75	23	430	131
8	10 699	4 853	326	99	182	55	22.0	560	80	24	509	155

Rope Layer	Optional Third Drum – 5/8" (15.88 mm) Wire Rope											
	Maximum Line Pull		No Load Line Speed		Full Load Line Speed		Pitch Diameter		Layer		Total	
	lbs.	kg	ft/min.	m/min	ft/min.	m/min	in.	mm	ft.	m	ft.	m
1	15,041	6 822	157	48	143	44	11.25	286	57	17	57	17
2	13,537	6 140	175	53	159	48	12.50	318	64	20	121	37
3	12,307	5 582	192	59	175	53	13.75	349	71	22	192	59
4	11,282	5 117	210	64	191	58	15.00	381	77	23	269	82
5	10,414	4 724	228	69	207	63	16.25	413	83	25	352	107
6	9,671	4 387	245	75	223	68	17.50	445	90	27	442	135

Wire Rope Application	Diameter		Length		Type	Maximum Permissible Load	
	in	mm	ft	m		lb	kg
Boom Hoist	5/8	15.88	610	186	W	11,770	5 339
Front Hoist	7/8	22.22	700	213	DB	22,740	10 315
Rear Hoist (Optional)	7/8	22.22	540	165	RB	17,520	7 947
Rear Hoist (Optional)	7/8	22.22	700	213	DB	22,740	10 315
Third Drum (Optional)	5/8	15.88	385	117	ZB	11,080	5 026
Third Drum (Optional)	5/8	15.88	385	117	WB	13,650	6 192

Rope Type	Description
DB	6 x 26 (6 X 19 Class) – Warrington Seale – Extra Improved Plow Steel – Preformed – Right Lay – Regular Lay – I.W.R.C.
RB*	18 x 19 (19 x 19 Class) – Rotation Resistant – Extra Improved Plow Steel – Preformed – Right Lay – Regular Lay – Swaged – SF=5.1
ZB	36 x 7 – Non-rotating – Extra Improved Plow Steel – Right Lay – Regular Lay – S.F.=5.1
WB	8 Strand – Regular Lay
W	6 x 26 (6 x 19 Class) – Warrington Seale – Extra Improved Plow Steel – Preformed – Right Lay – Alternate Lay

* – Use of swivel ball is not recommended.

Revolving Upperstructure

(continued from page 5)

■ Load Indicator/ Rated Capacity Limiter

Standard Equipment – PAT EI-65 load indicator provides two lineriders, angle sensor, computer, display, and anti-two block equipment to provide the following information.

- Boom length & angle.
- Jib length & angle.
- Load on hook.
- Load radius.
- Tip height.
- Anti-two block warning & function limiters.
- Operation mode.
- Operator settable alarms provide audio/visual warning.

Optional Equipment – PAT DS-350 rated capacity limiter provides all the same equipment and features of the standard EI-65 in conjunction with the following features.

- Provides an audio/visual warning when the load on hook is within 90% of the cranes rated load.
- Provides an audio/visual warning and limits functions when the load on hook is at 100% of the cranes rated load.

Note: The DS-350 function limiters are activated for anti-two block and overload conditions. These limiters are designed to prevent hoist up on front and rear drums and boom down.

■ Additional Equipment – Standard

- 57.88" (1.47 m) outside diameter turntable bearing.
- Front, right, & left side removable catwalks.
- 77 US Gallons (291.5 L) fuel tank (usable quantity).
- Machine lifting links.

■ Additional Equipment – Optional

- Rud-o-matic® model 1248 tagline winder for angle boom (double barrel, spring wound, drum type).
- Rud-o-matic® model 648 tagline winder for tube boom.
- Full revolving type Fairleader with barrel, sheaves, and guide rollers.

Lower Structure

■ Lower Frame

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

- 8'-10.7" (2.71 m) overall width.
- 11'-11" (3.63 m) overall length.

■ Treadmembers

All welded, precision-machined, steel frames can be hydraulically extended and retracted by a hydraulic cylinder mounted in the lower frame.

- 14' (4.27 m) extended gauge.
- 8'-11" (2.72 m) retracted gauge.
- 20'-2" (6.15 m) overall length.
- 36" (0.91 m) wide track shoes.
- 11 sealed (oil filled) track rollers per treadmember.
- Sealed (oil filled) idler and drive planetaries.
- Compact travel drives.
- Hydraulic self adjusting tracks.

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

- Individual control provides smooth, precise maneuverability including full-counter-rotation.
- Spring applied, hydraulically released disc type brake controlled automatically.
- Maximum travel speed is 1.0 mph (1.7 km/h) in high speed and 0.6 mph (1 km/h) in low speed.
- Designed to 30% gradeability.

