108 HYLAB 5

Lattice Boom Crawler Crane
50-ton *(50 mt)*

- 50 tons *(50 mt)* at an 11' *(3.35 m)* radius
- 16,800 lbs *(7 620 kg)* clam & drag ratings with 70' *(21.34 m)* of boom
- 140' *(42.67 m)* conventional angle boom and 110' + 50' *(33.53 + 15.24 m)* boom + jib combination
- 163' *(49.68 m)* maximum tip height
- 140' *(42.67 m)* maximum 360° working radius
- Transports under 90,000 lbs *(40 824 kg)* with tracks, counterweights and boom base section
- Optional boom folding equipment allows 50' *(15.24 m)* of boom to be transported on one 93,300 lb *(42 321 kg)* load or 70' *(21.34 m)* of boom on one 94,600 lb *(42 911 kg)* load
- 170 hp *(127 kw)* Isuzu engine
- Matching front & rear grooved hoist drums for clam work
- Mechanical drum rotation indicators
- 32,323 lb *(14 662 kg)* maximum winch line pull
- 432 fpm *(131.70 mpm)* maximum winch line speed
- Fast and easy counterweight self-assembly using pinned backstops
- Completely sealed “oil-filled” lower with compact lower drives
- Optional free spooling 3rd drum (front or rear mount)
- Blocked over-end capacities for increased lift capacities
- Optional extra lift “XL” counterweight package available

Link-Belt CRANES

108 H5 HYLAB 5

Lattice Boom Crawler Crane
50-ton *(50 mt)*

Whatever your requirements, the 108 H5 has big crane features with small crane affordability to get your job done.

- **Superb job-site mobility**
- **Fits in places the big cranes can't**
- **Superior pile-driving capability**
- **Operator-friendly**
- **Transports in one load**

Link-Belt CRANES

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

42" x 42" (1.06 m x 1.06 angle boom extensions i previous LS-108 42' boo

Attachable bridle guide arm to align bridle and base sec fast, easy bridle-to-boom co

Pin-on boom hoist bail

Rear-mount fourth drum is available with true gravity free fall

Hydraulic counterweight removal cylinders and pinned backstops for fast and easy counterweight removal

Non-slip safety strips and quick storage catwalks provide sure-footed access to the crane upper

Hydraulic cylinder in carbody for effortless extend/retract

HYLAB hydraulic swing system smoothly rotates on turntable bearing with internal swing teeth. Upper secures into place with a two-position positive house lock

Wide-opening doors (upper left), two upper access ladders with hand-rails (left) and fold-up treadmember steps prove that access is the name of the game on the 108 H5.

The standard 40' – 140' (12.19 – 42.67 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.

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Angle boom designed to accommodate both lift crane and duty cycle demands

Link-Belt's standard assembly lift hooks and the easy-to-use counterweight removal system are extremely efficient and simple to use. The lift hooks can also handle boom extensions.

Optional auxiliary tip extension is equipped with two 18.12" (0.46 m) root diameter nylon sheaves, mounted on sealed anti-friction bearings.

The auxiliary 9-ton (8.16 mt) capacity, 5' (1.5 m) tip extension is designed to use instead of a jib to provide clearance between working hoist lines.

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 with quick reeve ability.

Optional third drum interchangeable with LS-138H II and LS-208H II third drums. Third drum plumbing is standard with routing to both front and rear locations.

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

Automatic hydraulic track tension

Self-cleaning 36" (0.91 m) track shoes form a wide gauge of 11' 2" (3.40 m) when extended, and 8' 9" (2.67 m) when retracted. Lower structure ground clearance is 16.5" (0.42 m).

The 108 H5 has a dragline/clamshell capacity of 16,800 lbs (7 620 kg). The dragline package includes fairleader as well as bolt-on-front lagging to allow for 7/8" inhaul.

Strong power plant and bullet-proof hydraulics

Powered by the **biggest and most quiet engine in its class**, the Isuzu engine is fuel efficient and has proven to be 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 features 100% all-hydraulic power. The seven pump "closed loop" design allows for simultaneous, smooth and precise operation of all controls. All this has earned a job-proven reputation of bullet-proof reliability.

Comfort and control at your fingertips

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

- 18,600 BTU air conditioning and 19,000 BTU heating run through upper and lower vents.
- Rated capacity limiter with load cell located in boom hoist dead end
- Pilot-operated armchair controls with adjustable sliding console
- Foot throttle pedal
- Travel levers conveniently located on right hand console

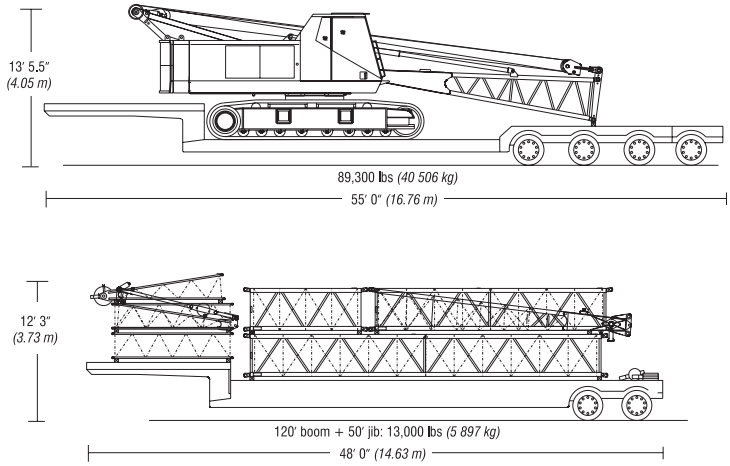
Operator's cab console features include:

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

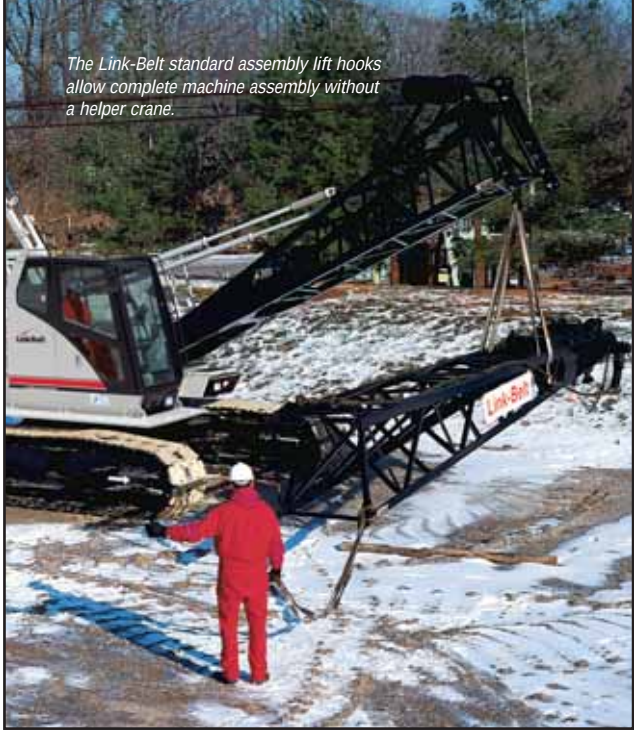
The 108 H5 is yet another revolutionary addition to the outstanding Link-Belt HYLAB family with its high mobilization features, unbeatable hydraulic control and unprecedented attachment flexibility.

The 108 H5 has standard toe plates, which enable blocked over-end capacities, challenging higher rated capacity cranes.

The 108 H5 can transport with full counterweight and base section under 90,000 lbs.*



*w/30” track shoes option



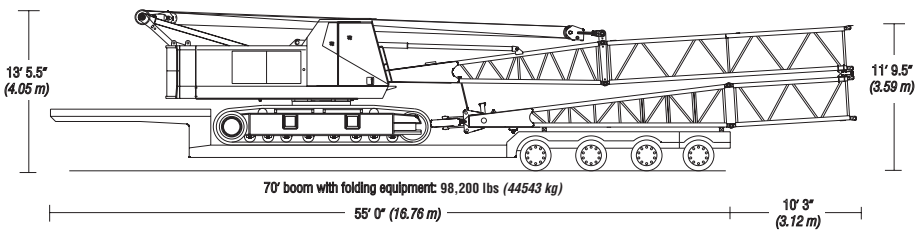
The Link-Belt standard assembly lift hooks allow complete machine assembly without a helper crane.

With optional boom folding equipment, the 108 H5 can move in one load with 50' or 70' of boom.

Another innovative Link-Belt feature is the use of a boom folding system, which eliminates the need to disassemble the boom prior to transport. As a result, 50' *(15.24 m)* or 70' *(21.34 m)* can remain installed on the crane in a folded travel position. Boom folding equipment includes folding links, storage links and folding wheel.

One load transport configuration with folded boom

This innovative option allows 50' *(15.24 m)* of boom to be transported on one 93,300 lb *(42 321 kg)* load or 70' *(21.34 m)* of boom on one 98,200 lb *(44543 kg)* load.



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

When you invest in a Link-Belt crane, you invest in a 125-year legacy of outstanding customer support through a worldwide Link-Belt distribution network. The value of a machine starts with state-of-the-art design and quality manufacturing, but excellent product support greatly impacts the fact that Link-Belt cranes traditionally command some of the highest resale prices in the industry.

The right people with the right part at the right time.

Highly trained crane technical specialists get to the core issues quickly to get you going again.

Through the Master Technician Training Program, technicians are specifically tested to establish proficiency in all phases of machine diagnostics and repair. At our Service Training Center, schools are held throughout the spring and fall for both distributor technicians and customers.

Supporting these trained distributor personnel, experienced factory advisors with comprehensive machine records, CAD computer terminals, and technical electronic publication libraries stand ready to isolate facts and quickly act to resolve crane service issues.

With eParts, our online computer system, distributors worldwide can order Genuine Link-Belt Parts 24 hours a day, seven days a week. Our dedicated 72,000 sq. ft. Parts Distribution Center is an integral part of Link-Belt's product support where all parts in stock ship the same business day.

Litho in U.S.A. 01/05 #4296

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 operates on the principles of continuous quality improvement, ISO 9001, and established values that support the vision of quality. These principles result in reduction in waste, better use of company resources and improved employee and customer satisfaction.

With major capital improvements 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 CRANES

Lexington, Kentucky
www.linkbelt.com

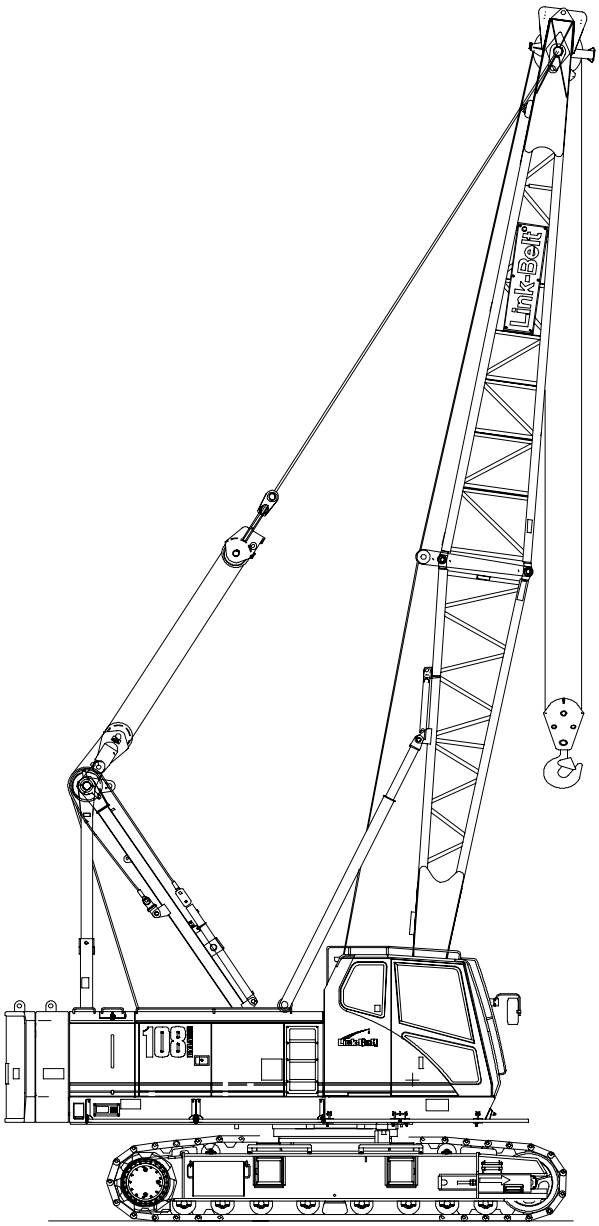
Technical Data

Specifications & Capacities

108 HYLAB 5

Crawler Crane

50 Ton *(50 metric ton)*



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

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Upper Structure

Frame

All welded and precision machined surfaces.

Turntable Bearing

- Inner race with internal swing gear is bolted to lower frame
- Outer race bolted to upper frame

Engine

Engine

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

Isuzu AH – 4HK1X	
Number of cylinders	4
Bore and stroke	4.53 in x 4.92 in (*115 x 125mm*)
Piston displacement	317 in^3 *(5.2L)*
Engine rpm at full load speed	2,100 rpm
Hi – idle rpm	2,100 rpm
Gross engine hp	200 hp *(148.4kw)*
Peak torque	507 ft lb *(688joule)* @ 1,500 rpm
Electrical system	24 volt
Fuel tank capacity	77 gal *(291.5L)*
Batteries	2 – 12 volt
Approximate fuel consumption	gal/hr *(L/hr)*
100% hp	10.42 *(39.44)*
75% hp	8.20 *(31.04)*
50% hp	6.06 *(22.94)*
25% hp	3.03 *(11.50)*

Fuel Tank

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

Hydraulic System

Hydraulic Pumps

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

- Two variable displacement pumps operating at 4,270 psi *(300kg/cm^2)* and 64 gal/min *(296L/min)* powers load hoist drums, boom hoist drum, optional third drum, and travel.
- One fixed displacement gear type pump operating at 3,000 psi *(210kg/cm^2)* and 29 gal/min *(111L/min)* powers the swing motor and retract cylinders.
- One fixed displacement gear type pump operating at 1,200 psi *(85kg/cm^2)* and 6.6 gal/min *(25L/min)* powers the remote control valves and counterweight lifting cylinders.

Pump Control "Fine Inching" Mode

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

Hydraulic Reservoir

77 gal *(291L)*, equipped with sight level gauge. Diffusers built in for deaeriation.

Filtration

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

Counterbalance Valves

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

Load Hoist Drums

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

- Power up/down and free – fall operation modes
- Automatic brake mode (spring applied, hydraulically released, band type brake)
- Grooved lagging
- Drum pawl controlled manually
- Electronic drum rotation indicators
- Mounted on anti – friction bearings
- 15.75 in *(40.00cm)* root diameter
- 31.50 in *(80.00cm)* flange diameter
- 16.09 in (*40.87cm)* width
- Bolt on spiral lagging for 0.88 in *(22.22mm)* wire rope. Bolts to the flange of front hoist drum. Used for dragline work.

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

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

Drum Clutches

Hydraulic two shoe clutch design that uses a 20 in *(50.8cm)* diameter x 5 in *(12.7cm)* wide shoe that expands internally to provide load control. Swept area is 314 in^2 *(2 026cm^2).*

Drum Brakes

External contracting band design that uses a 31.5 in *(80.01cm)* diameter x 4.7 in *(11.9cm)* wide shoe. Spring applied, hydraulically released "automatic brake mode" or mechanical foot control.

Optional Third Hoist Drum

Mounts to the front or rear 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 in *(27.0cm)* root diameter
- 20 in *(50.8cm)* flange diameter
- 13.5 in *(34.3cm)* width
- Mounted on anti – friction bearings

Optional Fourth Hoist Drum

Mounts to the rear of the upper frame with gravity free fall for use in pile driving applications.

- 15.75 in *(40.0cm)* root diameter
- 31.50 in *(80.0cm)* flange diameter
- 10.63 in *(27.0cm)* 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
- Drum pawl controlled automatically
- Mounted on anti–friction bearings
- 12.6 in *(32.0cm)* root diameter
- 24.41 in *(62.0cm)* flange diameter
- 9.57 in *(24.3cm)* width

Boom Hoist System

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

- Retractable gantry frame
- Pin–on bail frame
- 14–part reeving with 5/8 in *(15.88mm)* wire rope
- Bridle assembly
- Two 1.125 in *(28.70mm)* pendants
- Tubular boom backstops (telescopic type)
- Nylon sheaves contain sealed anti–friction bearings
- Boom speed from 0˚–82˚ is 60 seconds with no load.

Swing System

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

- Spring applied, hydraulically released, 360˚ multi–plate brake
- Free swing mode when lever is in neutral position
- Two position positive house lock
- Audio/Visual swing alarm
- Maximum swing speed is 3.4 rpm

Counterweight

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

- "A" counterweight consists of one, 14,000 lb *(6 350kg)* base slab
- Optional "B" counterweight consists of one, 10,000 lb *(4 535kg)*
- Optional "XL" counterweight package offers increased capacities for lift and piling applications. It consists of one, 4,630 lb *(2 100kg)* upper counterweight and two, 4,300 lb *(1 950kg)* side frame counterweights. *Not for duty cycle application. Not designed to self–assemble.*

Operator's Cab

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

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

Rated Capacity Limiter System

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

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

Machinery Cab

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

Catwalks

Standard on right and left sides. Catwalks fold up and pin for reduced travel width.

Lower Structure

Carbody

Lower Frame

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

- 7 ft 9.31 in *(2.37m)* overall width
- 10 ft 9.12 in *(3.28m)* overall length

Side Frames

Side Frames

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

- 11 ft 2 in *(3.40m)* extended gauge
- 8 ft 8.7 in *(2.66m)* retracted gauge
- 17 ft 8 in *(5.38m)* overall length
- 36 in *(0.91m)* wide track shoes
- Optional 30 in *(0.76m)* wide track shoes
- Sealed (oil filled) idler and drive planetaries
- Compact travel drives
- Hydraulic self adjusting tracks

Track Rollers
- Eight sealed (oil filled) track rollers per side frame
- Heat treated, mounted on anti–friction bearings

Tracks

Heat treated, self–cleaning, multiple hinged track shoes joined by one–piece full floating pins; 50 shoes per side frame

Take Up Idlers

Cast steel, heat treated, self–cleaning, mounted on sealed tapered roller bearings

Travel and Steering

Travel and Steering

Each side frame contains a pilot controlled, bi–directional, axial piston motor and a planetary gear reduction unit to provide positive control under all load conditions.
- 2–speed travel
- Individual control provides smooth, precise maneuverability including full counter–rotation.
- Spring applied, hydraulically released disc type brake controlled automatically
- Maximum travel speed is 2.36 mph *(3.80km/h)* in high speed and 1.3 mph *(2.09km/h)* in low speed.
- Designed to 40% gradeability

Attachment and Options

Conventional Angle Boom 40–140 ft *(12.19–42.67m)*

Basic Boom

40 ft *(12.19m)* two–piece design that utilizes a 20 ft *(6.10m)* base section and a 20 ft *(6.10m)* open throat top section with in–line connecting pins on 42 in *(1.06m)* wide and 42 in *(1.06m)* deep centers.
- Boom foot on 45.2 in *(1.15m)* centers
- 4 x 4 x 0.38 in *(101.6 x 101.6 x 9.5mm)* T–1 angle chords for base section
- 4 x 4 x 0.31 in *(101.6 x 101.6 x 7.87mm)* HSLA angle chords for top section
- Top section includes mounting lugs for all optional attachments
- Bridle guide system located on boom base
- Skywalk platform
- Hooks provided on the base section for handling boom
- Two deflector rollers on top section
- Permanent skid pads mounted on top section to protect head machinery
- Four, 18 in, *(0.46m)* root diameter steel sheaves mounted on sealed anti–friction bearings
- Mechanical boom angle indicator

Boom Extensions

The following table provides the lengths available and the suggested quantity to obtain maximum boom in 10 ft *(3.05m)* increments. Midpoint pendant connections are not required.
- Deflector roller on top of each section
- Appropriate length pendants
- Maximum tip height of 144 ft *(43.90m)*

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

Optional
- Clam head machinery – Two 18 in *(0.46m)* root diameter sheaves mounted on sealed anti–friction bearings and rope roller that bolts to the bottom of boom top.
- Drag head machinery – One 18 in *(0.46m)* root diameter wide mouth drag sheave mounted on greasable bearings. Two 18 in *(0.46m)* root diameter steel sheaves mounted on sealed anti–friction bearings. Rope roller bolts to bottom of boom top.

Tubular Jib 20–50 ft *(6.10–15.24m)*

Basic Tube Jib

20 ft *(6.10m)* two–piece design that utilizes a 10 ft *(3.05m)* base section and a 10 ft *(3.05m)* top section with in–line connecting pins on 30 in *(0.76m)* wide and 24 in *(0.61m)* deep centers.
- 1.5 in *(38.1mm)* diameter tubular chords
- One 16.5 in *(0.42m)* root diameter steel sheave mounted on sealed anti–friction bearings
- 10 ft *(3.05m)* jib extensions are available to provide jib lengths of 30–50 ft *(9.14–15.24m)* in 10 ft *(3.05m)* increments
- Jib offset angles at 5˚, 17.5˚, and 30˚
- The maximum tip height of boom + jib is 163 ft *(49.68m)*.

5 ft *(1.5m)* Auxiliary Tip Extension

Designed to use in place of jib to provide clearance between working hoist lines. The extension is equipped with two nylon 18.12 in *(0.46m)* root diameter nylon sheaves mounted on sealed anti–friction bearings. Maximum capacity is 9 Tons *(8.16mt)*.

Pile Driver Lead Adaptor

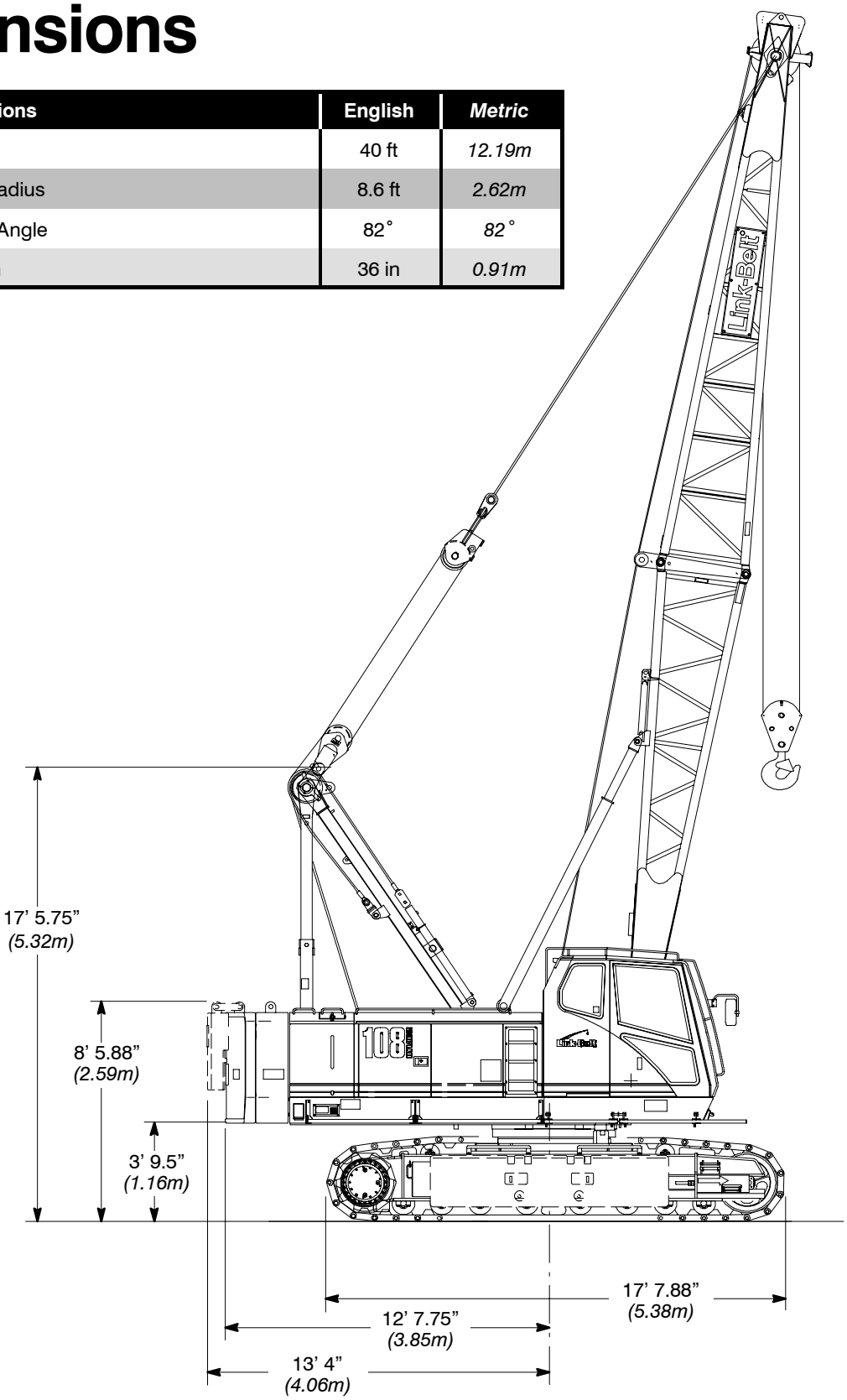
Designed to mount on the boom top section to provide a single 3.63 in *(92.1mm)* pin connection for fixed leads.

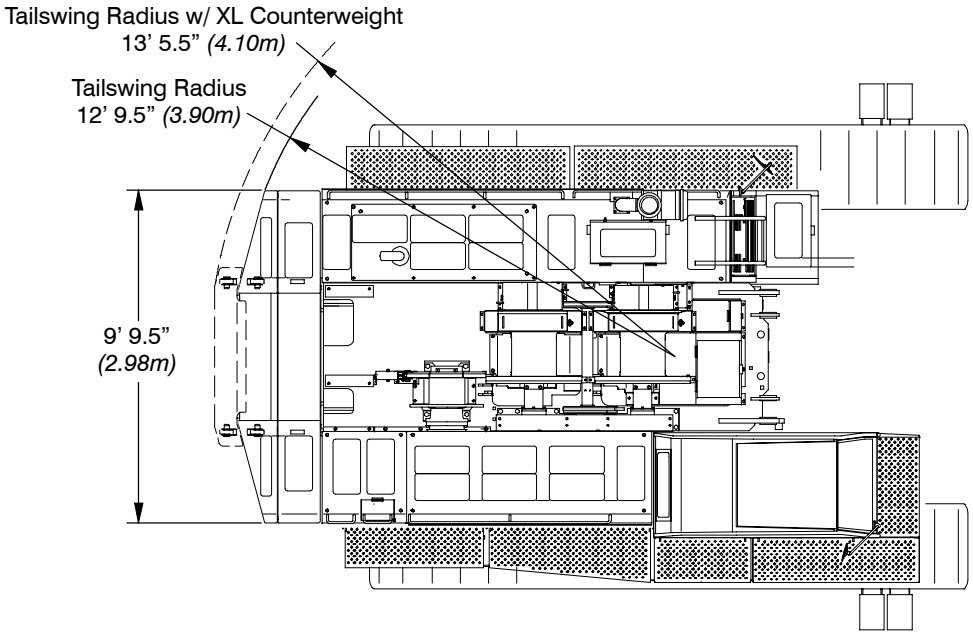
Boom Folding Equipment

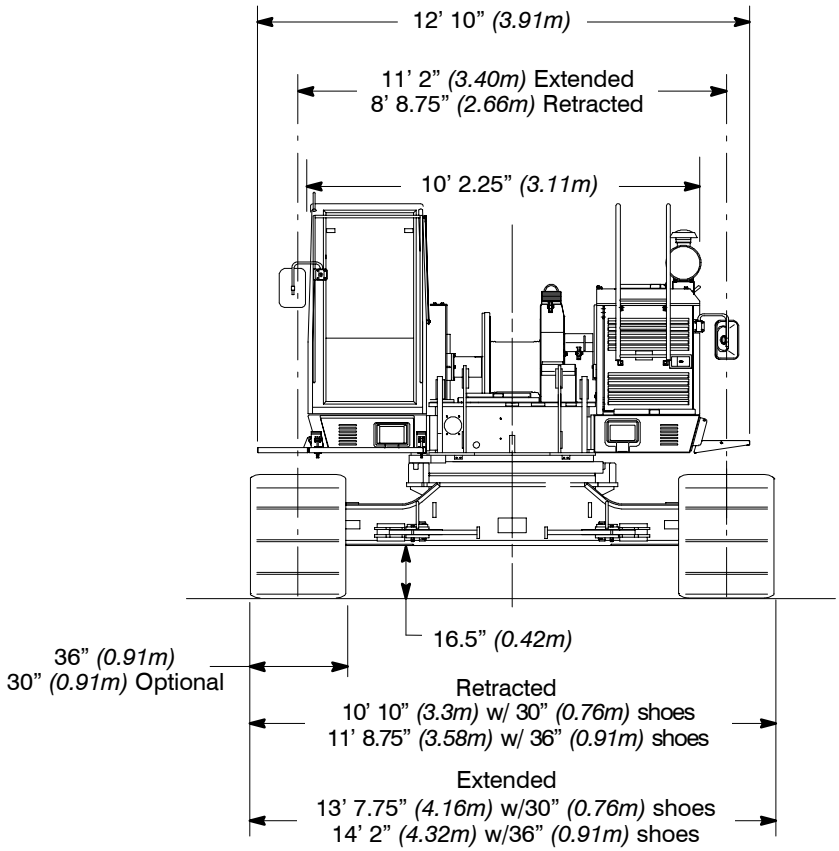
Consist of bolt on brackets and pins to allow folding 50 ft *(15.24m)* or 70 ft *(21.34m)* of boom for transport.

Dimensions

General Dimensions	English	*Metric*
Basic Boom	40 ft	*12.19m*
Minimum Load Radius	8.6 ft	*2.62m*
Maximum Boom Angle	82˚	*82˚*
Track Shoe Width	36 in	*0.91m*



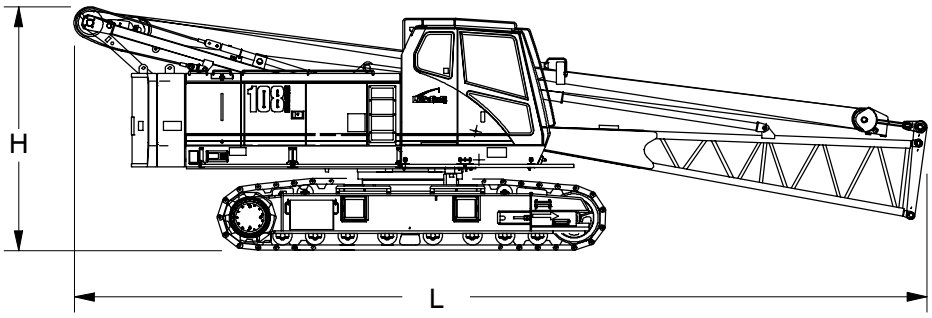

Tailswing Radius w/ XL Counterweight
13’ 5.5” (4.10m)
Tailswing Radius
12’ 9.5” (3.90m)
9’ 9.5”
(2.98m)


12’ 10” (3.91m)
11’ 2” (3.40m) Extended
8’ 8.75” (2.66m) Retracted
10’ 2.25” (3.11m)
16.5” (0.42m)
36” (0.91m)
30” (0.91m) Optional
Retracted
10’ 10” (3.3m) w/ 30” (0.76m) shoes
11’ 8.75” (3.58m) w/ 36” (0.91m) shoes
Extended
13’ 7.75” (4.16m) w/30” (0.76m) shoes
14’ 2” (4.32m) w/36” (0.91m) shoes

Base Crane

Base Crane ❶

Length	38 ft 6 in	*(11.73m)*
Height	11 ft 2.5 in	*(3.42m)*
Weight		
W/Standard 36 in *(0.91m)* Track Shoes		
	92,809 lb	*(42 097kg)*
W/Optional 30 in *(0.76m)* Track Shoes		
	89,499 lb	*(40 596kg)*



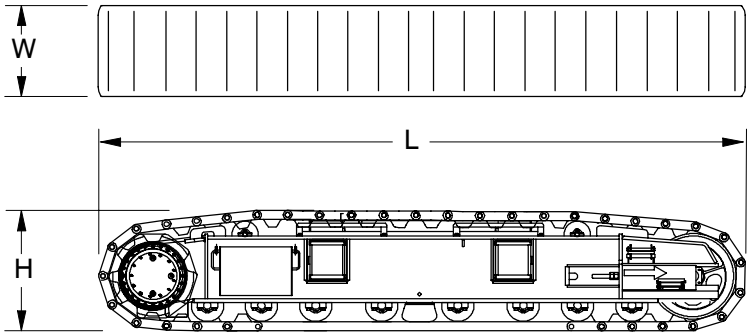
Side Frames

With 36 in (*0.91m*) Track Shoes ❷

Length	17 ft 8 in	*(5.38m)*
Width	36 in	*(0.91m)*
Height	39.5 in	*(0.92m)*
Weight	14,155 lb	*(6 421kg)*

With 30 in (*0.76m*) Track Shoes ❷

Length	17 ft 8 in	*(5.38m)*
Width	30 in	*(0.76m)*
Height	39.5 in	*(0.92m)*
Weight	12,500 lb	*(5 670kg)*



Counterweights

"A" Counterweight ❶

Length	117.25 in	*(2.98m)*
Width	14.5 in	*(0.37m)*
Height	51.2 in	*(1.30m)*
Weight	14,000 lb	*(6 350kg)*

"B" Counterweight ❶

Length	117.25 in	*(2.98m)*
Width	14 in	*(0.36m)*
Height	51.2 in	*(1.30m)*
Weight	10,000 lb	*(4 536kg)*

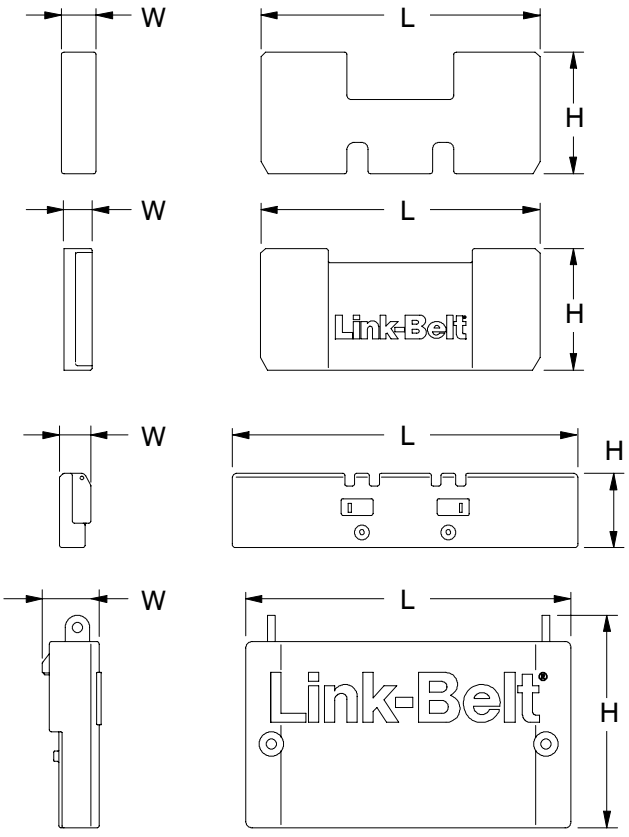
"XL" Side Frame Counterweight ❷

Length	110.25 in	*(2.8m)*
Width	10 in	*(0.26m)*
Height	23.62 in	*(0.6m)*
Weight	4,300 lb	*(1 950kg)*

"XL" Upper Counterweight ❶

Length	63.00 in	*(1.6m)*
Width	11 in	*(0.28m)*
Height	41 in	*(1.04m)*
Weight	4,630 lb	*(2 100kg)*

Number inside black circle "❶" = # of components



Boom

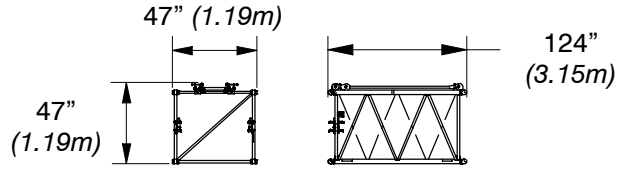
42 in *(1.06m)* x 42 in *(1.06m)*

Boom Extensions

Weights Include Pendants and Hardware

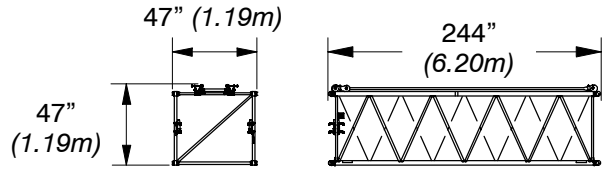
10 ft *(3.05m)* Extension

Weight: 781 lb *(354kg)*



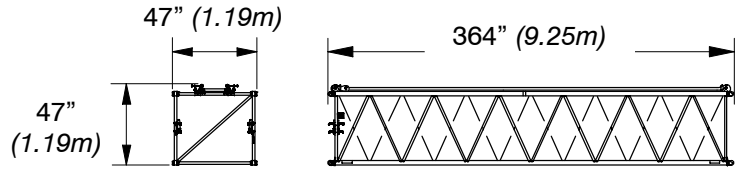
20 ft *(6.10m)* Extension

Weight: 1,335 lb *(606kg)*



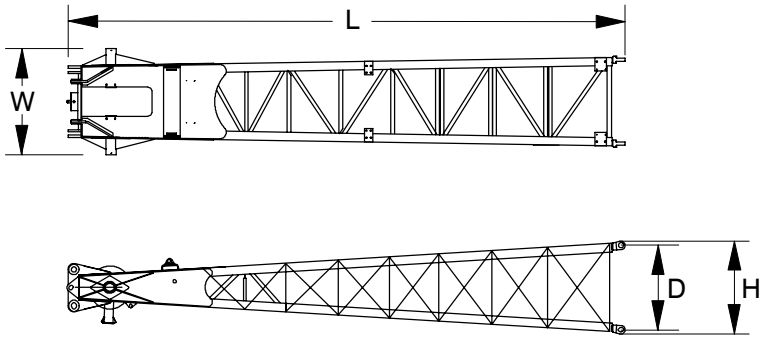
30 ft *(9.14m)* Extension

Weight: 1,832 lb *(831kg)*



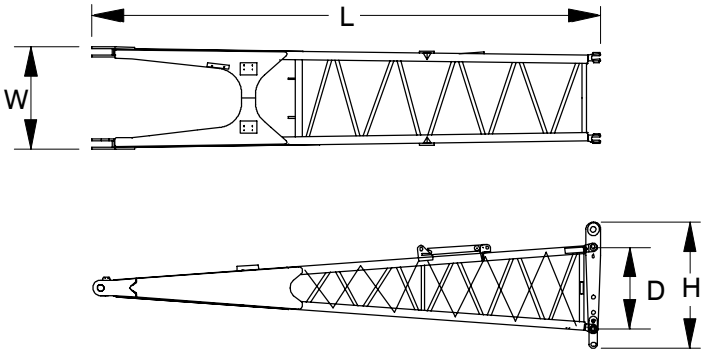
20 ft *(6.10m)* Boom Top Section ❶

Length	21 ft 10 in	*(6.65m)*
Width	50 in	*(1.27m)*
Deep	39.75 in	*(1.01m)*
Height	43.75 in	*(1.11m)*
Weight	2,711 lb	*(1 230kg)*



20 ft *(6.10m)* Boom Base Section ❶

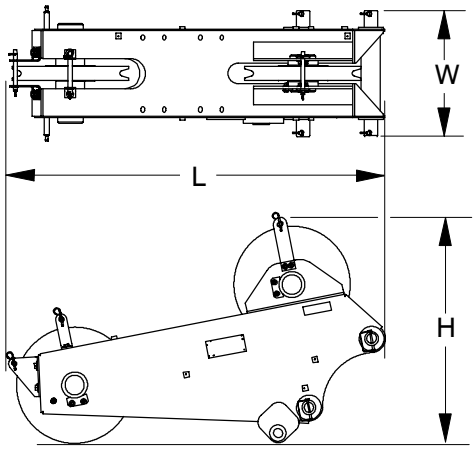
Length	20 ft 7 in	*(6.27m)*
Width	50 in	*(1.27m)*
Deep	39.75 in	*(1.01m)*
Height	62.00 in	*(1.57m)*
Weight	2,217 lb	*(1 006kg)*



Number inside black circle "❶" = # of components

5 ft *(1.52m)* Auxiliary Tip Extension* ❶

Length	5 ft 8.75 in	*(1.75m)*
Width	24 in	*(0.61m)*
Height	3 ft 5 in	*(1.04m)*
Weight	641 lb	*(291kg)*

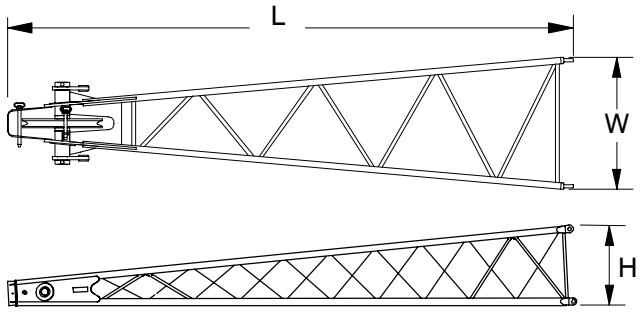


Jib

10 ft *(3.05m)* Jib Top Section* ❶

Length	11 ft 2 in	*(3.40m)*
Width	31.38 in	*(0.80m)*
Height	26 in	*(0.66m)*
Weight†	383 lb	*(174kg)*

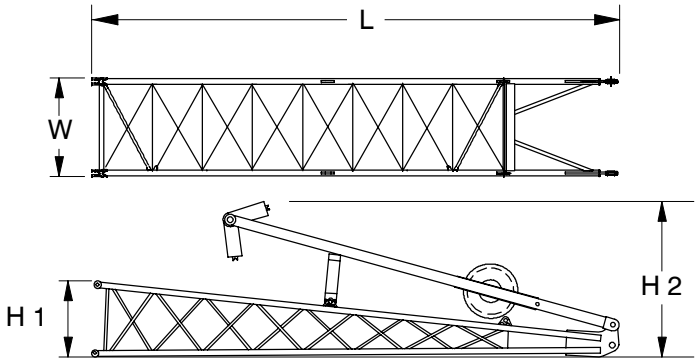
† Weight includes pendants and hardware.



10 ft *(3.05m)* Jib Base Section* ❶

Length	10 ft 3.25 in	*(3.13m)*
Width	31.75 in	*(0.81m)*
Height 1	26 in	*(0.66m)*
Height 2	47.67 in	*(1.21m)*
Weight†	676 lb	*(307kg)*

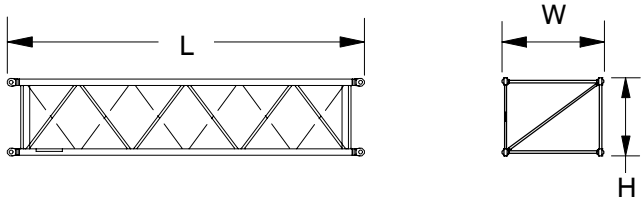
† Weight includes pins, basic frontstay & backstay pendants, and hardware.



10 ft *(3.05m)* Jib Extension* ❶

Length	10 ft 2 in	*(3.10m)*
Width	31.75 in	*(0.81m)*
Height	28.50 in	*(0.72m)*
Weight†	195 lb	*(88kg)*

† Weights includes pins, pendants, and hardware.



Number inside black circle "❶" = # of components

* – Optional equipment

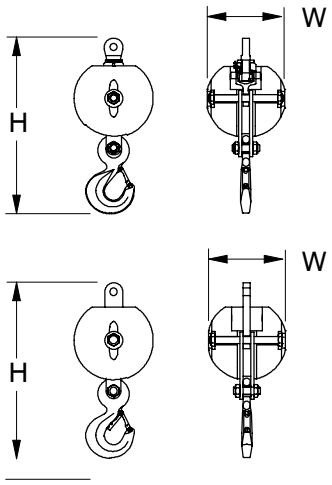
Hook Balls

8.5 Ton *(7.7mt)* Swivel Hook Ball* ❶

Width	14.5 in	*(0.37m)*
Height	33.8 in	*(0.86m)*
Weight	360 lb	*(163kg)*

8.5 Ton *(7.7mt)* Non – Swivel Hook Ball* ❶

Width	16.5 in	*(0.42m)*
Height	35.00 in	*(0.89m)*
Weight	360 lb	*(163kg)*



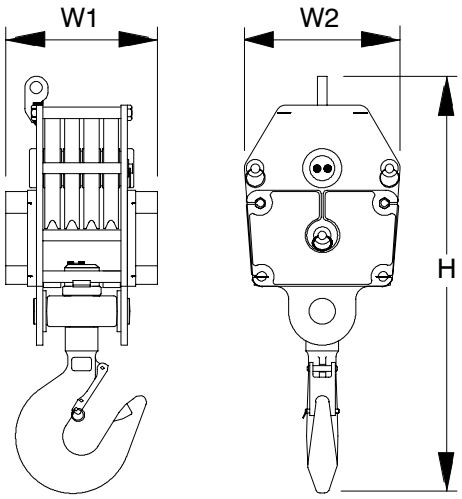
Hook Blocks

40 Ton *(36.3mt)* 4 – Sheave Hook Block* ❶

Width1	14.44 in	*(0.37m)*
Width2	17.88 in	*(0.45m)*
Width3	15.00 in	*(0.38m)*
Height	47.95 in	*(1.22m)*
Weight	780 lb	*(354kg)*

60 Ton *(54.4mt)* 4 – Sheave Hook Block* ❶

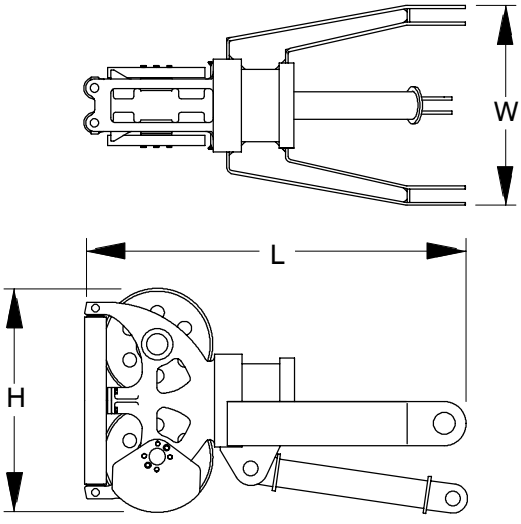
Width1	20.13 in	*(0.51m)*
Width2	20 in	*(0.51m)*
Height	50 in	*(1.27m)*
Weight	1,110 lb	*(503kg)*



Fairleader

Fairleader* ❶

Length	62.00 in	*(1.57m)*
Width	32.25 in	*(0.82m)*
Height	36.25in	*(0.92m)*
Weight	1,274 lb	*(578kg)*



Number inside black circle "❶" = # of components

* – Optional equipment

Transport Weights

Base Crane: Rigid boom backstops, 77 gal *(291L)* of fuel, catwalks (left and right side), 20 ft *(6.10m)* base section, bridle/spreader bar, boom hoist reeving, 600 ft *(182.88m)* of type 'DB' front hoist rope, 500 ft *(152.4m)* of type 'RB' rear hoist rope, and 36 in *(0.91m)* track shoes.

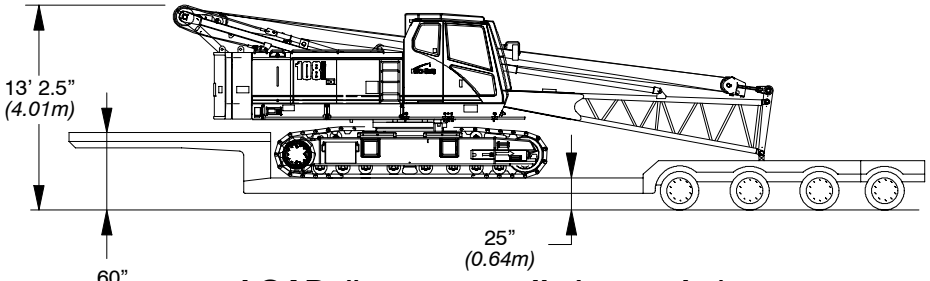
Item Description	Gross Weight		Transport Loads	
	lb	*(kg)*	#1	#2
Base Crane	68,809	*31 212*	1	
Add "A" Counterweight	14,000	*6 350*	1	
Add "B" Counterweight	10,000	*4 536*	1	
Add "XL" Upper Counterweight	4,630	*2 100*		
Add "XL" Side Frame Counterweight (2)	4,300	*1 950*		
Add Hydraulic Third Drum without Rope	1,053	*478*		
Add 3 Sheave Assembly to the Top Section	390	*177*		
Add 20 ft *(6.10m)* Angle Top Section with 4 Lifting Sheaves	2,711	*1 230*		1
Add 20 ft *(6.10m)* Angle Top Section with 2 Clam Sheaves	2,680	*1 216*		
Add 20 ft *(6.10m)* Angle Top Section with 1 Drag Sheave and 2 Lifting Sheaves	2,748	*1 246*		
Add 10 ft *(3.05m)* Angle Extension with Pins and Pendants	781	*354*		2
Add 20 ft *(6.10m)* Angle Extension with Pins and Pendants	1,335	*606*		1
Add 30 ft *(9.14m)* Angle Extension with Pins and Pendants	1,832	*831*		2
Add Boom Folding Equipment	500	*227*		
Add Tagline Winder	650	*295*		
Add Fairleader	1,274	*578*		
Add Pile Driver Lead Adapter	198	*90*		
Add 20 ft *(6.10m)* Tubular Jib with Offset Pendants	1,177	*534*		1
Add 10 ft *(3.05m)* Tubular Jib Extension	195	*88*		2
Add 5 ft *(1.52m)* Auxiliary Tip Extension	640	*290*		
Add Holding Rope – 0.75 in *(19.05mm)* x 145 ft *(44.20m)* Type 'DB'	151	*68*		
Add Closing Rope – 0.75 in *(19.05mm)* x 180 ft *(54.86m)* Type 'DB'	187	*85*		
Add 0.88 in *(22.35mm)* Front Drum Lagging	327	*148*		
Add Inhaul Rope – 0.88 in *(22.35mm)* x 95 ft *(28.96m)* Type 'M'	128	*58*		
Add Third Drum Rope – 0.63 in *(16.00mm)* x 385 ft *(117.35m)* Type 'ZB'	312	*141*		
Add 8.5 Ton *(7.7mt)* Hook Ball – Non–Swivel or Swivel	360	*163*		1
Add 40 Ton *(36.3mt)* 4 Sheave Hook Block	780	*354*		
Add 60 Ton *(54.4mt)* 4 Sheave Hook Block	1,110	*503*		1
Replace 36 in *(0.91m)* Track Shoes with 30 in *(0.76m)*	–3,530	*–1 601*		
Remove Front Hoist Rope – 0.75 in *(19.05mm)* x 600 ft *(182.88m)* Type 'DB'	–624	*–283*		
Remove Jib Hoist Rope – 0.75 in *(19.05mm)* x 500 ft *(152.40m)* Type 'RB'	–550	*–249*		
Remove 20 ft *(6.10m)* Angle Base Section	–1,757	*–797*		
Remove 50 gal *(189.3L)* of Fuel	–362	*–164*		
Approximate Total Shipping Weight	**lb**		**92,809**	**12,309**
	kg		***42 097***	***5 583***

Notes:
Estimated weights vary by +/– 2%. Numbers in the load columns represent quantities.
Estimated transport loads assume the load out consist of 140 ft *(39.62m)* of angle boom, 50 ft *(15.24m)* of jib, and "AB" counterweight.
Support loads were targeted at 45,000 lb *(20 412kg)*, 8 ft 6 in *(2.59m)* wide, 48 ft *(14.63m)* long, and 13 ft 6 in *(4.11m)* high using a drop deck trailer. This may vary depending on state laws, empty truck/trailer weights, and style of trailer.

Working Weights

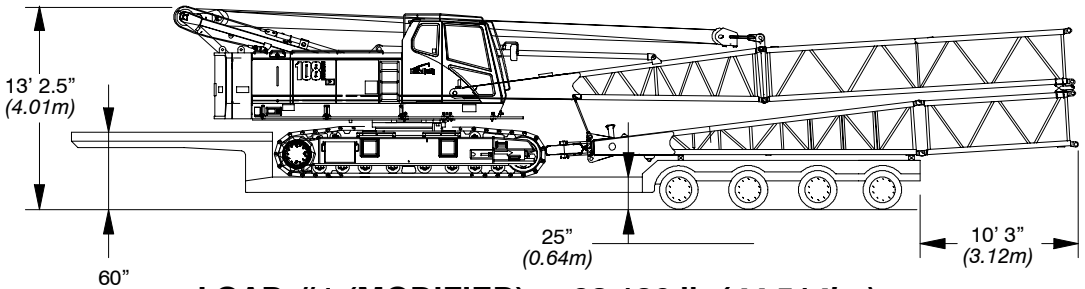
Option	Description	36" *(914mm)* Track Shoes		30" *(762mm)* Track Shoes	
		Gross Weight lb *(kg)*	Ground Bearing Pressure psi *(kg/cm²)*	Gross Weight lb *(kg)*	Ground Bearing Pressure psi *(kg/cm²)*
1	Base crane equipped with 40 ft *(12.19m)* of boom, "A" counterweight, 600 ft *(182.88m)* front hoist rope, 500 ft *(152.40m)* rear hoist rope, 77 gal *(291L)* of fuel, 60 Ton *(54.43mt)* hook block and a 200 lb *(90.7kg)* operator.	86,830 *(39 385)*	6.85 *(0.48)*	83,384 *(37 822)*	7.90 *(0.56)*
2	Option #1 plus "B" counterweight and 100 ft *(30.48m)* of boom extensions to obtain 140 ft *(39.62m)* of main boom.	100,778 *(45 712)*	7.95 *(0.56)*	97,332 *(44 149)*	9.22 *(0.65)*
3	Option #2 plus 50 ft *(15.24m)* of jib and 8.5 Ton *(7.7mt)* hookball – subtract 30 ft *(9.14m)* of boom extensions to obtain 110 + 50 ft *(33.53 + 15. 24m)* of main boom plus jib.	101,068 *(45 844)*	7.98 *(0.56)*	97,622 *(44 280)*	9.24 *(0.65)*
Notes:	Ground bearing pressure is based on the total weight distributed evenly over the track contact area. Total contact area for 30" *(0.76m)* track shoes is 10,560 in² *(68 129 cm²)*. Total contact area for 36" *(0.91mm)* track shoes is 12,672 in² *(81 755 cm²)*.				

Transport Drawings



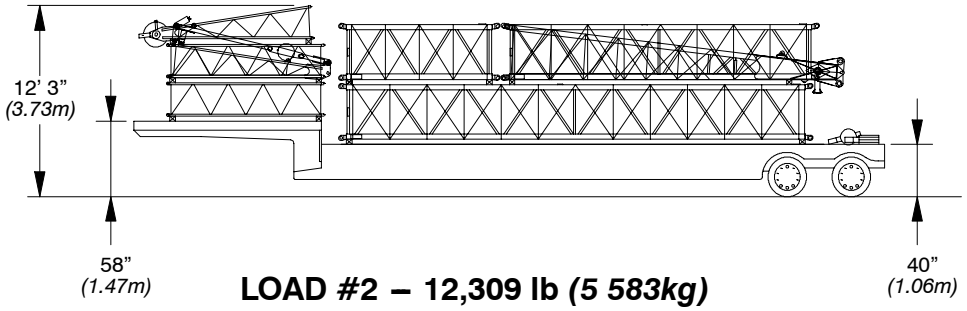
LOAD #1 – 92,809 lb *(42 097kg)*

Base crane



LOAD #1 (MODIFIED) – 98,136 lb *(44 514kg)*

Base crane with 70 ft *(21.34m)* of folded boom



LOAD #2 – 12,309 lb *(5 583kg)*

20 ft *(6.10m)* top section, two 10 ft *(3.05m)* boom extensions, 20 ft *(6.10m)* boom extension, two 30 ft *(9.14m)* boom extensions, 20 ft *(6.10m)* jib with offset pendants, two 10 ft *(3.05m)* jib extensions, 8.5 Ton *(7.7mt)* hook ball, and 60 Ton *(54.4mt)* hook block

Load Hoist Performance

Front or Rear Drum – 3/4 in *(19mm)* Wire Rope

Rope Layer	Maximum Line Pull		No Load Line Speed		Full Load Line Speed		Pitch Diameter		Layer		Total	
	lb	*kg*	ft/min	*m/min*	ft/min	*m/min*	in	*mm*	ft	*m*	ft	*m*
1	32,323	*14 662*	264	*80.5*	89	*27.1*	16.5	*419*	86	*26.3*	86	*26.3*
2	29,630	*13 440*	288	*87.8*	97	*29.6*	18.0	*457*	94	*28.5*	180	*54.9*
3	27,350	*12 406*	312	*95.1*	105	*32.0*	19.5	*495*	101	*30.7*	281	*85.6*
4	25,396	*11 520*	336	*102.4*	113	*34.5*	21.0	*533*	108	*32.9*	389	*118.5*
5	23,703	*10 752*	360	*109.7*	121	*37.0*	22.5	*571*	115	*35.1*	504	*153.5*
6	22,222	*10 080*	384	*117.0*	129	*39.4*	24.0	*610*	122	*37.2*	626	*190.8*
7	20,914	*9 487*	408	*124.3*	137	*41.9*	25.5	*648*	129	*39.4*	755	*230.2*
8	19,752	*8 960*	432	*131.7*	145	*44.4*	27.0	*686*	136	*41.6*	892	*271.8*
9	Storage Layer Only						28.5	*724*	144	*43.8*	1,035	*315.6*

Front Drum – 7/8 in *(22mm)* Wire Rope

Rope Layer	Maximum Line Pull		No Load Line Speed		Full Load Line Speed		Pitch Diameter		Layer		Total	
	lb	*kg*	ft/min	*m/min*	ft/min	*m/min*	in	*mm*	ft	*m*	ft	*m*
1	26,188	*11 879*	330	*100.6*	110	*33.5*	20.4	*517*	86	*26.3*	86	*26.3*
2	24,116	*10 939*	358	*109.2*	119	*36.3*	22.1	*562*	94	*28.5*	180	*54.9*

Boom Hoist Drum – 5/8 in *(16mm)* Wire Rope

Rope Layer	Maximum Line Pull		No Load Line Speed		Full Load Line Speed		Pitch Diameter		Layer		Total	
	lb	*kg*	ft/min	*m/min*	ft/min	*m/min*	in	*mm*	ft	*m*	ft	*m*
1	17,080	*7 747*	194	*59.2*	172	*52.5*	13.2	*336*	48	*14.8*	48	*14.8*
2	15,605	*7 078*	213	*64.8*	188	*57.4*	14.5	*368*	53	*16.1*	101	*30.8*
3	14,364	*6 515*	231	*70.4*	205	*62.4*	15.7	*399*	57	*17.3*	158	*48.2*
4	13,306	*6 036*	249	*76.0*	221	*67.3*	17.0	*431*	61	*18.6*	219	*66.8*
5	12,393	*5 622*	268	*81.6*	237	*72.3*	18.2	*463*	65	*19.9*	284	*86.6*
6	11,598	*5 261*	286	*87.2*	253	*77.2*	19.5	*495*	69	*21.1*	354	*107.8*
7	10,898	*4 943*	304	*92.8*	270	*82.2*	20.7	*526*	74	*22.4*	427	*130.2*
8	10,278	*4 662*	323	*98.4*	286	*87.2*	22.0	*558*	78	*23.7*	505	*153.9*

Optional Third Drum – 5/8 in *(16mm)* Wire Rope

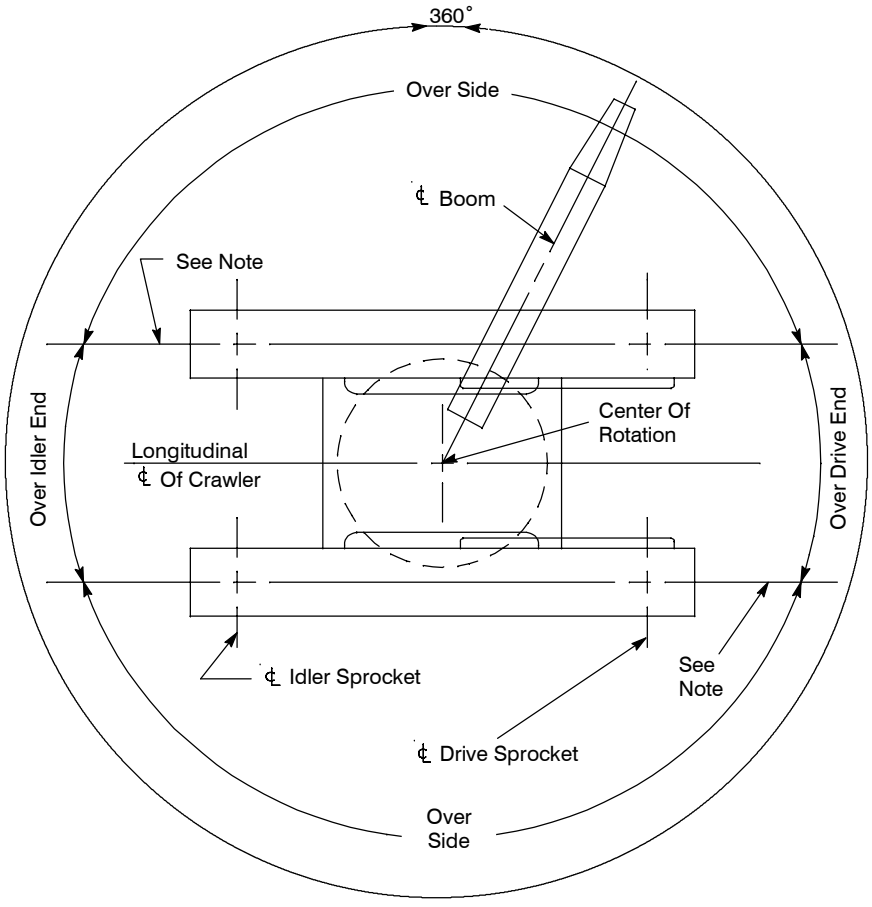
Rope Layer	Maximum Line Pull		No Load Line Speed		Full Load Line Speed		Pitch Diameter		Layer		Total	
	lb	*kg*	ft/min	*m/min*	ft/min	*m/min*	in	*mm*	ft	*m*	ft	*m*
1	15,041	*6 822*	157	*48*	143	*43.6*	11.3	*286*	57	*17.4*	57	*17.4*
2	13,537	*6 140*	175	*53*	159	*48.5*	12.5	*318*	64	*19.5*	121	*36.9*
3	12,307	*5 582*	192	*59*	175	*43.3*	13.8	*349*	70	*21.3*	192	*58.5*
4	11,282	*5 117*	210	*64*	191	*58.0*	15.0	*381*	76	*23.1*	269	*82.0*
5	10,414	*4 724*	228	*69*	207	*63.1*	16.3	*413*	83	*25.2*	352	*107.3*
6	9,671	*4 387*	245	*75*	223	*68.0*	17.5	*445*	89	*27.1*	442	*134.7*

Optional Fourth Drum – 3/4 in *(19mm)* Wire Rope

Rope Layer	Maximum Line Pull		No Load Line Speed		Full Load Line Speed		Pitch Diameter		Layer		Total	
	lb	*kg*	ft/min	*m/min*	ft/min	*m/min*	in	*mm*	ft	*m*	ft	*m*
1	22,352	*10 139*	189	*57.7*	126	*38.5*	16.5	*419*	56	*17.1*	56	*17.1*
2	20,489	*9 294*	207	*63.0*	138	*42.0*	18.0	*457*	61	*18.7*	117	*35.8*
3	18,913	*8 579*	224	*68.2*	149	*45.5*	19.5	*495*	66	*20.2*	184	*56.0*
4	17,562	*7 966*	241	*73.5*	161	*49.0*	21.0	*533*	71	*21.8*	255	*77.8*
5	16,391	*7 435*	258	*78.7*	172	*52.5*	22.5	*571*	77	*23.3*	332	*101.1*
6	15,367	*6 970*	275	*84.0*	184	*56.0*	24.0	*610*	82	*24.9*	413	*126.0*
7	14,463	*6 560*	293	*89.2*	195	*59.5*	25.5	*648*	87	*26.4*	500	*152.4*
8	13,659	*6 196*	310	*94.5*	207	*63.0*	27.0	*686*	92	*28.0*	592	*180.4*
9	*12,940*	*5 870*	*327*	*99.7*	*218*	*66.5*	*28.5*	*724*	*97*	*29.6*	*689*	*210.0*
10	12,293	*5 576*	344	*105.0*	230	*70.0*	30.0	*762*	102	*31.1*	791	*241.1*

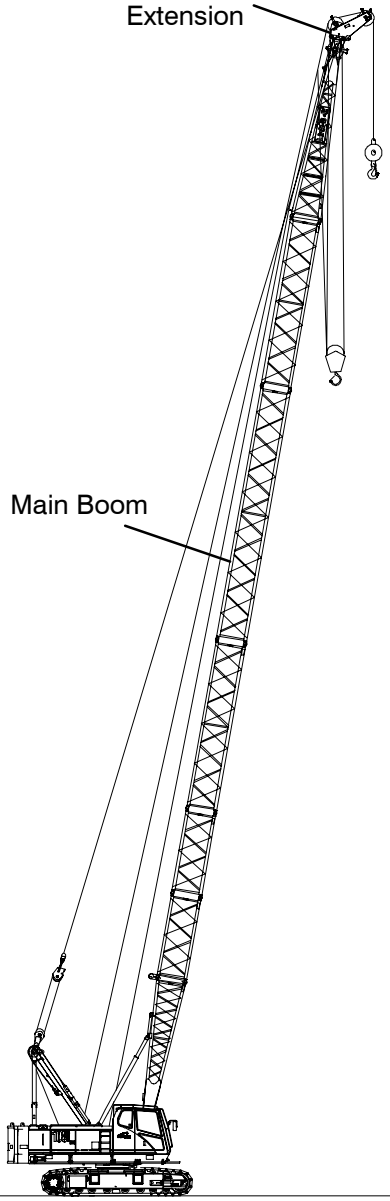
Wire Rope Application	Diameter		Type	Max. Permissible Load		Wire Rope Descriptions
	in	*mm*		lb	*kg*	
Boom Hoist	5/8	*16*	W	11,700	*5 307*	6 x 26 (6 x 19 Class) – Extra Improved Plow Steel – Preformed – Right Lay – Alternate Lay – I.W.R.C.
Front Hoist	3/4	*19*	DB	16,800	*7 620*	6 X 26 (6 X 19 Class), Warrington Seale, E.I.P.S., Preformed, Right Regular Lay, I.W.R.C.
Rear Hoist	3/4	*19*	RB	12,900	*5 851*	19 X 19 Rotation Resistant Compacted Strand – High Strength – Preformed, Right Regular Lay
Third Drum	5/8	*16*	ZB	11,080	*5 026*	36 x 7 – Non-rotating – Extra Improved Plow Steel – Right Lay – Regular Lay
Clamshell (Holding)	3/4	*19*	DB	16,800	*7 620*	6 X 26 (6 X 19 Class), Warrington Seale, E.I.P.S., Preformed, Right Regular Lay, I.W.R.C.
Clamshell (Closing)	3/4	*19*	DB	16,800	*7 620*	6 X 26 (6 X 19 Class), Warrington Seale, E.I.P.S., Preformed, Right Regular Lay, I.W.R.C.
Dragline (Hoist)	3/4	*19*	DB	16,800	*7 620*	6 X 26 (6 X 19 Class), Warrington Seale, E.I.P.S., Preformed, Right Regular Lay, I.W.R.C.
Dragline (Inhaul)	7/8	*22*	M	22,740	*10 315*	6 X 25 (6 X 19 Class), Filler Wire, E.I.P.S., Preformed, I.W.R.C., Right Lay, Lang Lay

Working Areas

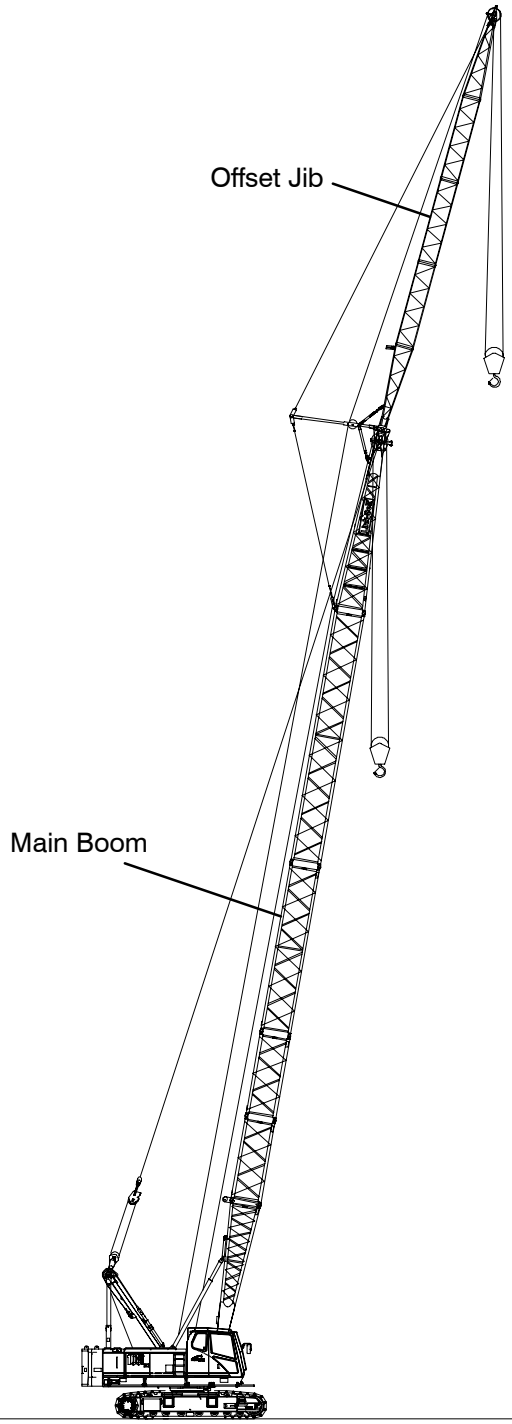


Note: These Lines Determine The Limiting Position Of Any Load For Operation Within Working Areas Indicated.

Attachments



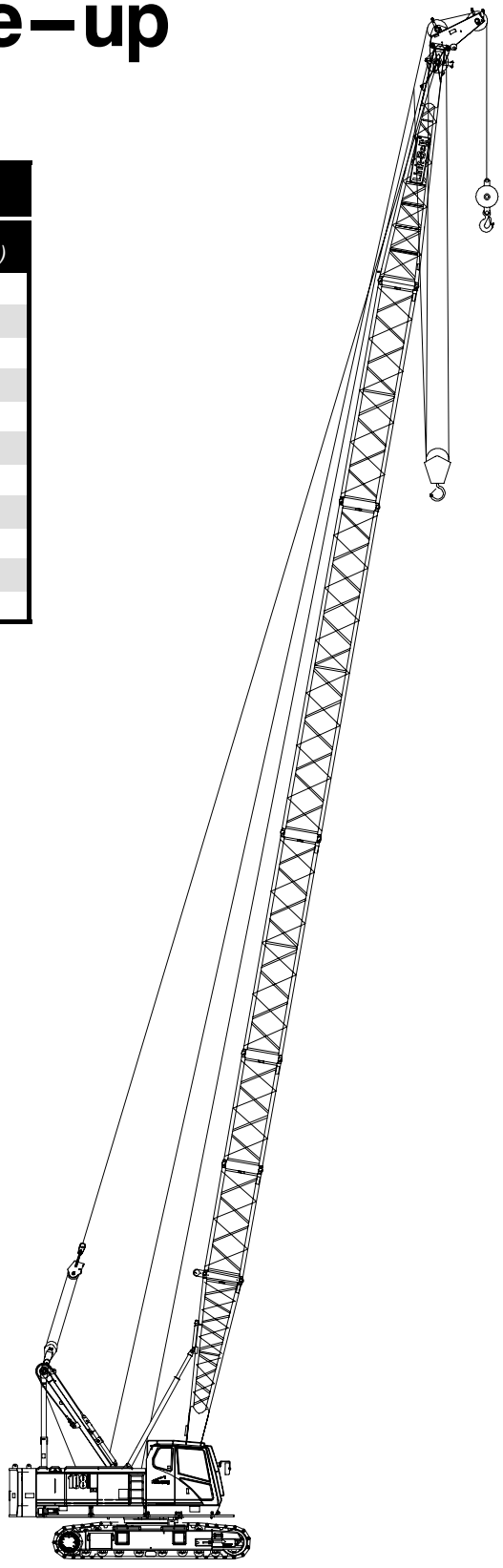
**40 – 140 ft (*12.20 – 42.67m*)
Main Boom With 5 ft (*1.5m*)
Tip Extension**



**40 – 110 ft (*12.20 – 33.53m*)
Main Boom With 20 – 50 ft
(*6.10 – 15.24m*) Jib**

Main Boom Make–up

Boom Length ft *(m)*		Base	Boom Extensions ft *(m)*			Top
ft	*m*	20 *(6.14)*	10 *(3.05)*	20 *(6.14)*	30 *(9.10)*	20 *(6.14)*
40	*12.20*	1				1
50	*15.24*	1	1			1
60	*18.29*	1		1		1
70	*21.34*	1			1	1
80	*24.38*	1	1		1	1
90	*27.43*	1		1	1	1
100	*30.48*	1			2	1
110	*33.53*	1	1		2	1
120	*36.58*	1		1	2	1
130	*39.62*	1	1	1	2	1
140	*42.67*	1	2	1	2	1

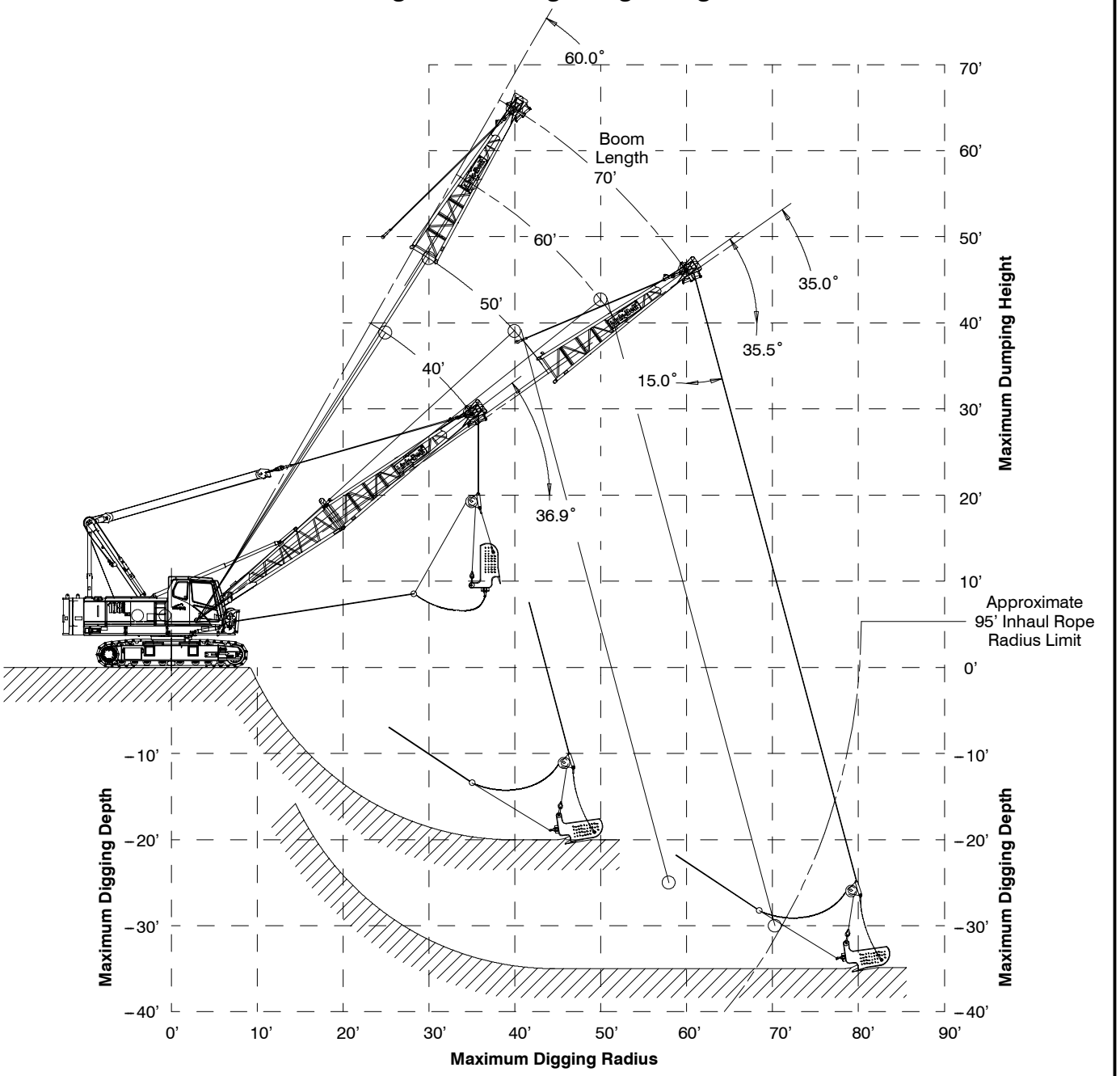


Notes:

1. Capacities shown are in kips/metric tons (1 kip = 1,000 lb / 1 kip = 0.45 metric ton) and are not more than 75% of the tipping loads with the crane standing level on firm supporting surface. A deduction must be made from these capacities for weight of hook block, hook ball, sling, grapple, load weighing device, etc. When using main hook while jib or tip extension is attached, reduce capacities by values shown in Crane Rating Manual. See Operator's Manual for all limitations when raising or lowering attachment.
2. The capacities in the shaded areas are based on structural strength. The capacities in the non–shaded areas are based on stability ratings.
3. 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 are based on freely suspended loads and make no allowances for such factors as the effect of the wind, ground conditions, and operating speeds. The operator shall therefore reduce load ratings in order to take these conditions into account. Refer to the Crane Rating Manual for Wind Speed Restrictions.
5. The least stable rated condition is over the side.
6. Booms must be erected and lowered over the end for maximum stability.
7. Main boom length must not exceed 140 ft *(42.67m)*.
8. Do not operate at radii and boom lengths where the Crane Rating Manual lists no capacity. Do not use longer booms or jibs than those listed in the Crane Rating Manual. Any of the above can cause a tipping condition, or boom and jib failure.
9. These capacities are in compliance with ASME/ANSI B30.5 at date of manufacture.
10. These capacities apply only to the crane as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.
11. These capacities are for "AB" [34,000 lb (*15 422kg*)] and "AB" + "XL" [38,630 lb (*17 522kg*) + 8,600 lb (*3 900kg*)] counterweight configurations as noted.

Duty Cycle Working Range Diagrams

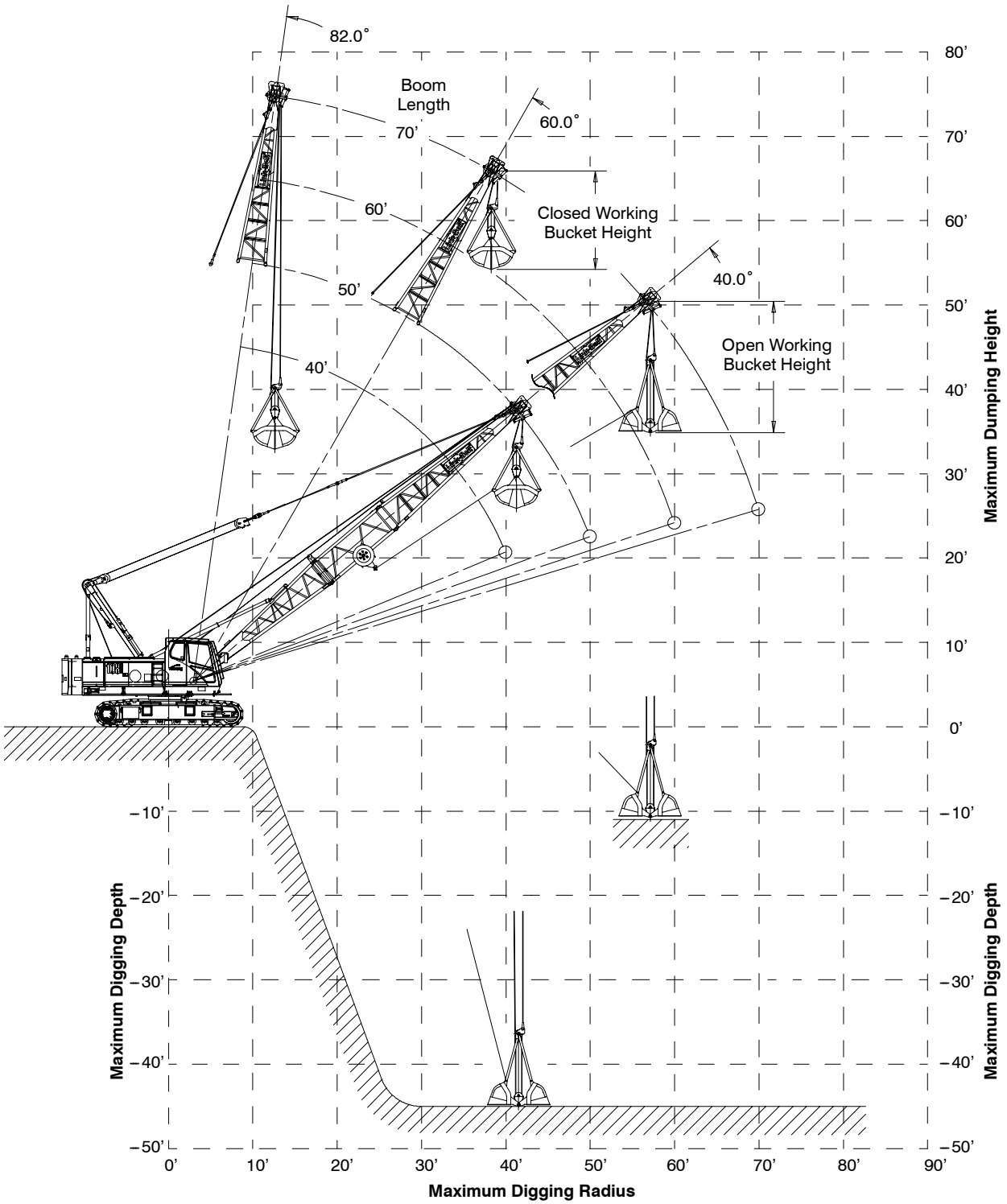
Dragline Working Range Diagram



Notes:

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

Clamshell Working Range Diagram



Notes:

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

Duty Cycle Load Charts

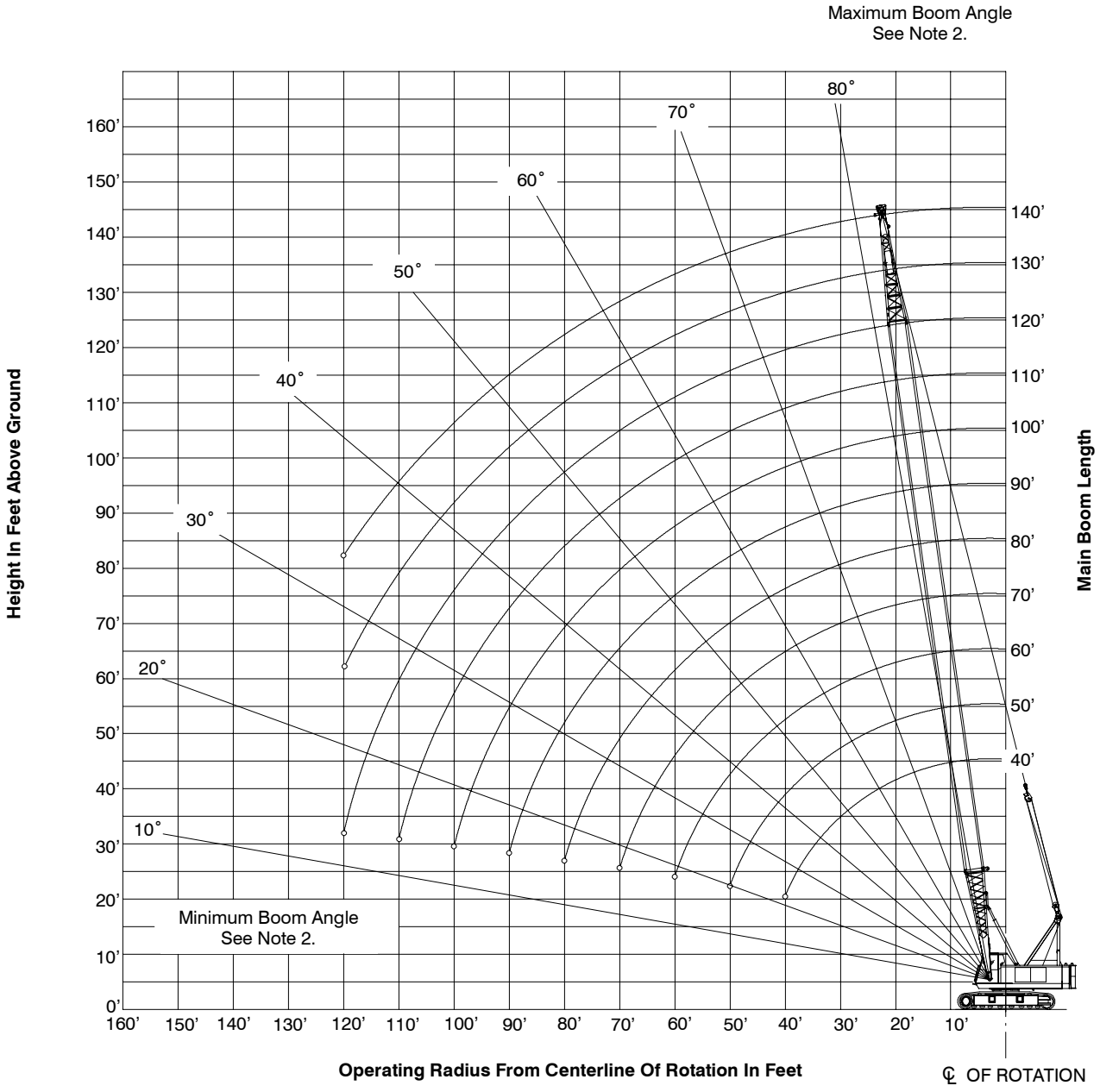
Duty Cycle Lift Capacity Chart – 360° Rotation – AB Counterweight – Side Frames Extended
[All capacities are listed in kips (*mt*)]

Load Radius ft *(m)*	Boom Length ft *(m)*							
	40 *(12.2)*		50 *(15.2)*		60 *(18.3)*		70 *(21.3)*	
	Dragline	Clamshell/ Magnet	Dragline	Clamshell/ Magnet	Dragline	Clamshell/ Magnet	Dragline	Clamshell/ Magnet
9 *(2.7)*	16.8 *(7.6)*	16.8 *(7.6)*						
10 *(3.1)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*				
11 *(3.4)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*				
12 *(3.7)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*		
13 *(4.0)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*
14 *(4.3)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*
15 *(4.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*
16 *(4.9)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*
17 *(5.2)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*
18 *(5.5)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*
19 *(5.8)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*
20 *(6.1)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*
25 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*
30 *(9.1)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*
35 *(10.7)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*	16.8 *(7.6)*
40 *(12.2)*	16.1 *(7.3)*	14.4 *(6.5)*	15.9 *(7.2)*	14.3 *(6.4)*	15.7 *(7.1)*	14.1 *(6.4)*	15.5 *(7.0)*	13.9 *(6.3)*
50 *(15.2)*			11.6 *(5.2)*	10.4 *(4.7)*	11.4 *(5.1)*	10.2 *(4.6)*	11.2 *(5.0)*	10.0 *(4.5)*
60 *(18.3)*					8.7 *(3.9)*	7.8 *(3.5)*	8.5 *(3.8)*	7.6 *(3.4)*
70 *(21.3)*							6.7 *(3.0)*	6.0 *(2.7)*

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

Main Boom Working Range Diagram

40’ To 140’ Open Throat Boom



Notes:

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

Main Boom Load Charts

Main Boom Lift Capacity Chart – 360° Rotation – AB Counterweight – Side Frames Extended

[All capacities are listed in kips (*mt*)]

Load Radius ft (*m*)	Boom Length ft (*m*)										
	40 (12.2)	50 (15.2)	60 (18.3)	70 (21.3)	80 (24.4)	90 (27.4)	100 (30.5)	110 (33.5)	120 (36.6)	130 (39.6)	140 (42.7)
9 (2.7)	100.0 (45.3)										
10 (3.1)	100.0 (45.3)	98.4 (44.6)									
11 (3.4)	100.0 (45.3)	96.0 (43.5)									
12 (3.7)	94.2 (42.7)	93.6 (42.4)	85.0 (38.5)								
13 (4.0)	85.9 (38.9)	85.9 (38.9)	81.8 (37.1)	74.0 (33.5)							
14 (4.3)	75.2 (34.1)	75.1 (34.0)	75.0 (34.0)	72.2 (32.7)							
15 (4.6)	66.8 (30.3)	66.7 (30.2)	66.6 (30.2)	66.5 (30.1)	63.8 (28.9)						
16 (4.9)	60.0 (27.2)	59.9 (27.1)	59.8 (27.1)	59.7 (27.0)	59.6 (27.0)	57.4 (26.0)					
17 (5.2)	54.5 (24.7)	54.4 (24.6)	54.2 (24.5)	54.1 (24.5)	54.0 (24.5)	53.8 (24.4)	51.7 (23.4)				
18 (5.5)	49.8 (22.5)	49.7 (22.5)	49.5 (22.4)	49.4 (22.4)	49.3 (22.3)	49.1 (22.2)	49.0 (22.2)				
19 (5.8)	45.8 (20.7)	45.7 (20.7)	45.6 (20.6)	45.4 (20.6)	45.3 (20.5)	45.1 (20.4)	45.0 (20.4)	44.8 (20.3)			
20 (6.1)	42.4 (19.2)	42.3 (19.1)	42.1 (19.1)	42.0 (19.0)	41.9 (19.0)	41.7 (18.9)	41.5 (18.8)	41.4 (18.7)	41.1 (18.6)		
25 (7.6)	30.7 (13.9)	30.6 (13.8)	30.4 (13.7)	30.2 (13.7)	30.1 (13.6)	29.9 (13.5)	29.7 (13.4)	29.5 (13.3)	29.3 (13.3)	29.1 (13.2)	29.0 (13.1)
30 (9.1)	23.8 (10.8)	23.7 (10.7)	23.5 (10.6)	23.3 (10.5)	23.1 (10.4)	22.9 (10.3)	22.8 (10.3)	22.6 (10.2)	22.4 (10.1)	22.2 (10.0)	22.0 (9.9)
35 (10.7)	19.3 (8.7)	19.1 (8.6)	18.9 (8.5)	18.8 (8.5)	18.6 (8.4)	18.4 (8.3)	18.2 (8.2)	18.0 (8.1)	17.8 (8.0)	17.6 (7.9)	17.4 (7.9)
40 (12.2)	16.1 (7.3)	15.9 (7.2)	15.7 (7.1)	15.5 (7.0)	15.3 (6.9)	15.1 (6.8)	14.9 (6.7)	14.7 (6.6)	14.5 (6.5)	14.3 (6.4)	14.1 (6.4)
50 (15.2)		11.6 (5.2)	11.4 (5.1)	11.2 (5.0)	11.1 (5.0)	10.8 (4.9)	10.6 (4.8)	10.4 (4.7)	10.2 (4.6)	10.0 (4.5)	9.8 (4.4)
60 (18.3)			8.7 (3.9)	8.5 (3.8)	8.3 (3.7)	8.1 (3.6)	7.9 (3.5)	7.7 (3.5)	7.5 (3.4)	7.3 (3.3)	7.0 (3.1)
70 (21.3)				6.7 (3.0)	6.5 (2.9)	6.3 (2.8)	6.1 (2.7)	5.8 (2.6)	5.6 (2.5)	5.4 (2.4)	5.2 (2.3)
80 (24.4)					5.1 (2.3)	4.9 (2.2)	4.7 (2.1)	4.5 (2.0)	4.2 (1.9)	4.0 (1.8)	3.8 (1.7)
90 (27.4)						3.8 (1.7)	3.6 (1.6)	3.4 (1.5)	3.2 (1.4)	3.0 (1.3)	2.7 (1.2)
100 (30.5)							2.8 (1.2)	2.6 (1.1)	2.4 (1.0)	2.1 (0.9)	1.9 (0.8)
110 (33.5)								1.9 (0.8)	1.7 (0.7)		

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

Main Boom Lift Capacity Chart -- 360° Rotation -- AB+XL Counterweight -- Side Frames Extended

[All capacities are listed in kips (*mt*)]

Load Radius ft (*m*)	Boom Length ft (*m*)										
	40 (12.2)	50 (15.2)	60 (18.3)	70 (21.3)	80 (24.4)	90 (27.4)	100 (30.5)	110 (33.5)	120 (36.6)	130 (39.6)	140 (42.7)
9 (2.7)	110.0 (49.9)										
10 (3.1)	110.0 (49.9)										
11 (3.4)	103.8 (47.1)	96.0 (43.6)									
12 (3.7)	95.1 (43.1)	93.6 (42.5)	85.0 (38.6)								
13 (4.0)	87.8 (39.8)	87.8 (39.8)	81.8 (37.1)	74.0 (33.6)							
14 (4.3)	81.5 (37.0)	81.5 (37.0)	79.7 (36.2)	72.2 (32.8)							
15 (4.6)	76.1 (34.5)	76.1 (34.5)	76.1 (34.5)	70.8 (32.1)	63.8 (28.9)						
16 (4.9)	69.9 (31.7)	69.8 (31.7)	69.7 (31.6)	69.1 (31.4)	62.2 (28.2)	57.4 (26.0)					
17 (5.2)	63.5 (28.8)	63.4 (28.8)	63.2 (28.7)	63.1 (28.6)	61.4 (27.9)	56.3 (25.5)	51.7 (23.5)				
18 (5.5)	58.1 (26.4)	58.0 (26.3)	57.8 (26.2)	57.7 (26.2)	57.6 (26.1)	55.2 (25.0)	51.0 (23.1)				
19 (5.8)	53.5 (24.3)	53.4 (24.2)	53.2 (24.1)	53.1 (24.1)	52.9 (24.0)	52.8 (24.0)	48.8 (22.1)	45.1 (20.5)			
20 (6.1)	49.6 (22.5)	49.4 (22.4)	49.3 (22.4)	49.1 (22.3)	49.0 (22.2)	48.8 (22.1)	48.2 (21.9)	44.5 (20.2)	41.1 (18.6)		
25 (7.6)	36.0 (16.3)	35.9 (16.3)	35.7 (16.2)	35.5 (16.1)	35.3 (16.0)	35.2 (16.0)	35.0 (15.9)	34.8 (15.8)	34.6 (15.7)	34.4 (15.6)	31.4 (14.2)
30 (9.1)	28.0 (12.7)	27.9 (12.7)	27.7 (12.6)	27.5 (12.5)	27.3 (12.4)	27.1 (12.3)	26.9 (12.2)	26.7 (12.1)	26.5 (12.0)	26.3 (11.9)	26.1 (11.8)
35 (10.7)	22.8 (10.3)	22.6 (10.3)	22.4 (10.2)	22.2 (10.1)	22.0 (10.0)	21.8 (9.9)	21.6 (9.8)	21.4 (9.7)	21.2 (9.6)	21.0 (9.5)	20.8 (9.4)
40 (12.2)	19.0 (8.6)	18.9 (8.6)	18.7 (8.5)	18.5 (8.4)	18.3 (8.3)	18.1 (8.2)	17.9 (8.1)	17.7 (8.0)	17.5 (7.9)	17.3 (7.8)	17.1 (7.8)
50 (15.2)		13.9 (6.3)	13.7 (6.2)	13.5 (6.1)	13.3 (6.0)	13.1 (5.9)	12.9 (5.9)	12.7 (5.8)	12.5 (5.7)	12.3 (5.6)	12.1 (5.5)
60 (18.3)			10.6 (4.8)	10.4 (4.7)	10.2 (4.6)	10.0 (4.5)	9.8 (4.4)	9.6 (4.4)	9.4 (4.3)	9.1 (4.1)	8.9 (4.0)
70 (21.3)				8.2 (3.7)	8.1 (3.7)	7.8 (3.5)	7.6 (3.4)	7.4 (3.4)	7.2 (3.3)	7.0 (3.2)	6.7 (3.0)
80 (24.4)					6.5 (2.9)	6.3 (2.9)	6.0 (2.7)	5.8 (2.6)	5.6 (2.5)	5.4 (2.5)	5.2 (2.4)
90 (27.4)						5.0 (2.3)	4.8 (2.2)	4.6 (2.1)	4.4 (2.0)	4.2 (1.9)	3.9 (1.8)
100 (30.5)							3.9 (1.8)	3.7 (1.7)	3.4 (1.5)	3.2 (1.5)	3.0 (1.4)
110 (33.5)								2.9 (1.3)	2.7 (1.2)	2.4 (1.1)	2.2 (1.0)
120 (36.65)									2.0 (0.9)	1.8 (0.8)	1.6 (0.7)

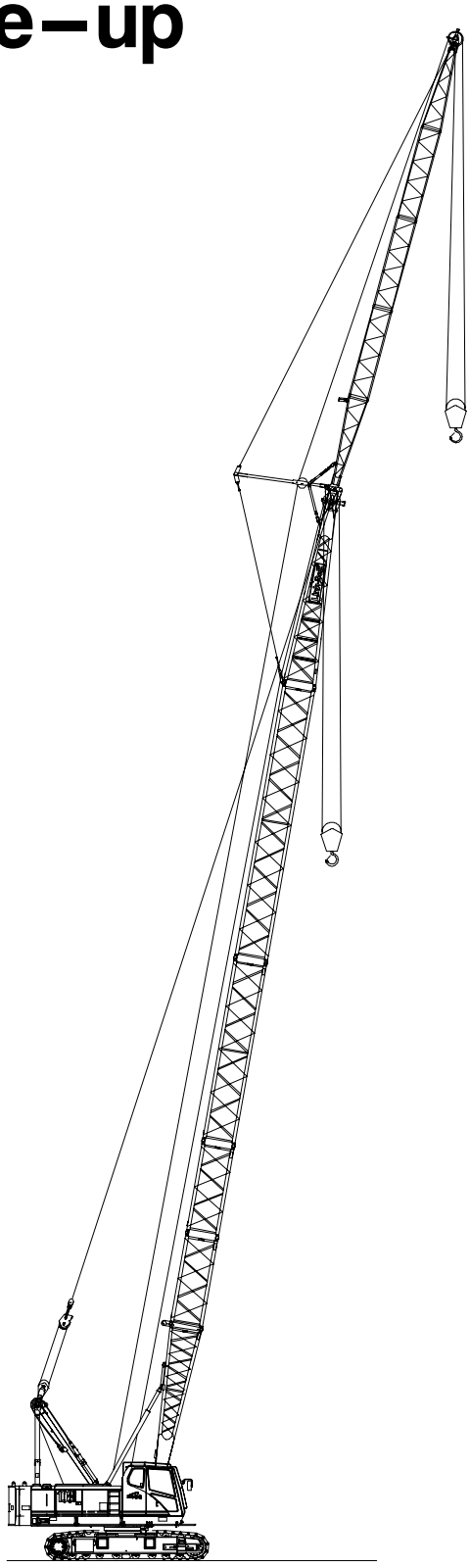
This material is supplied for reference use only. Operator must refer to in – cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly and operating procedures.

Jib Attachment Make–up

Jib Length ft *(m)*	Base	Jib Extensions	Top
	10 ft *(3.05m)*	10 ft *(3.05m)*	10 ft *(3.05m)*
20 *(6.10)*	1		1
30 *(9.15)*	1	1	1
40 *(12.19)*	1	2	1
50 *(15.24)*	1	3	1

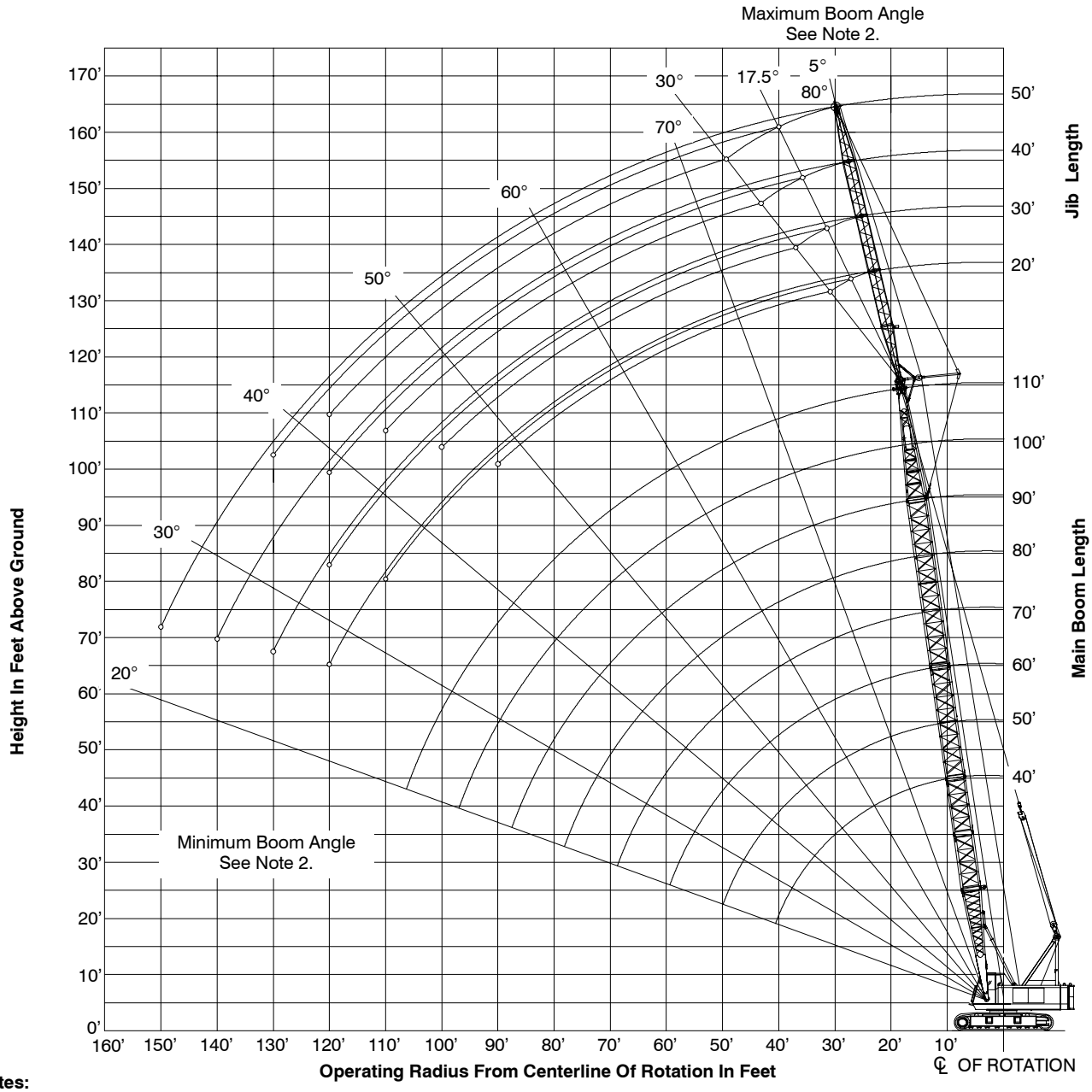
Notes:

1. Capacities shown are in kips/metric tons (1 kip = 1,000 lb / 1 kip = 0.45 metric ton) and are not more than 75% of the tipping loads with the crane standing level on a firm supporting surface.
2. A deduction must be made from these capacities for the weight of the main boom hook block or hook ball, jib hook block or hook ball, slings, grapples, load weighing devices, etc. When using main hook while jib is attached, reduce capacities by values shown in Crane Rating Manual. See Operator's Manual for all limitations when raising or lowering attachment.
3. The capacities in the shaded areas are based on structural strength. The capacities in the non–shaded areas are based on stability ratings.
4. Load ratings are based on freely suspended loads and make no allowances for such factors as the effect of the wind, ground conditions, and operating speeds. The operator shall therefore reduce load ratings in order to take these conditions into account. Refer to the Crane Rating Manual for Wind Speed Restrictions.
5. These capacities are for "AB" [34,000 lb (*15 422kg*)] and "AB" + "XL" [38,630 lb (*17 522kg*) + 8,600 lb (*3 900kg*)].
6. These capacities are for 360˚ working areas.
7. These capacities are for 20–50 ft *(6.10–15.24m)* jib lengths only.
8. The jib cannot be used on boom lengths over 110 ft *(33.52m)*.
9. The least stable rated condition is over the side.
10. These capacities are in compliance with ASME/ANSI B30.5 at date of manufacture.
11. These capacities apply only to the crane as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.



Jib Attachment Working Range Diagram

40’ To 110’ Main Boom With 20’ To 50’ 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.**

Jib Attachment Load Charts

40 ft (*12.2m*) Main Boom Length – 360° Rotation – AB or AB+XL Counterweight
[All capacities are listed in kips (*mt*)]

5° Offset					17.5° Offset					30° Offset				
Load Radius ft (*m*)	Jib Length ft *(m)*				Load Radius ft (*m*)	Jib Length ft *(m)*				Load Radius ft (*m*)	Jib Length ft *(m)*			
	20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*		20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*		20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*
16 *(4.9)*	20.0 *(9.0)*				16 *(4.9)*					16 *(4.9)*				
17 *(5.2)*	20.0 *(9.0)*				17 *(5.2)*					17 *(5.2)*				
18 *(5.5)*	20.0 *(9.0)*	20.0 *(9.0)*			18 *(5.5)*					18 *(5.5)*				
19 *(5.8)*	20.0 *(9.0)*	20.0 *(9.0)*			19 *(5.8)*					19 *(5.8)*				
20 *(6.1)*	20.0 *(9.0)*	20.0 *(9.0)*			20 *(6.1)*	20.0 *(9.0)*				20 *(6.1)*				
25 *(7.6)*	20.0 *(9.0)*	20.0 *(9.0)*	20.0 *(9.0)*	19.0 *(8.6)*	25 *(7.6)*	20.0 *(9.0)*	19.5 *(8.8)*			25 *(7.6)*	14.4 *(6.5)*			
30 *(9.1)*	20.0 *(9.0)*	20.0 *(9.0)*	20.0 *(9.0)*	17.9 *(8.1)*	30 *(9.1)*	19.8 *(8.9)*	17.2 *(7.8)*	15.5 *(7.0)*		30 *(9.1)*	13.1 *(5.9)*	11.1 *(5.0)*		
35 *(10.7)*	19.8 *(8.9)*	20.0 *(9.0)*	18.3 *(8.3)*	16.0 *(7.2)*	35 *(10.7)*	17.7 *(8.0)*	15.3 *(6.9)*	13.8 *(6.2)*	12.7 *(5.7)*	35 *(10.7)*	12.1 *(5.4)*	10.2 *(4.6)*		
40 *(12.2)*	16.5 *(7.4)*	16.7 *(7.5)*	16.8 *(7.6)*	15.0 *(6.8)*	40 *(12.2)*	16.0 *(7.2)*	13.8 *(6.2)*	12.5 *(5.6)*	11.4 *(5.1)*	40 *(12.2)*	11.3 *(5.1)*	9.5 *(4.3)*	8.3 *(3.7)*	
50 *(15.2)*	12.2 *(5.5)*	12.4 *(5.6)*	12.5 *(5.6)*	12.4 *(5.6)*	50 *(15.2)*	12.3 *(5.5)*	11.7 *(5.3)*	10.4 *(4.7)*	9.5 *(4.3)*	50 *(15.2)*		8.3 *(3.7)*	7.2 *(3.2)*	6.4 *(2.9)*
60 *(18.3)*		9.6 *(4.3)*	9.7 *(4.4)*	9.8 *(4.4)*	60 *(18.3)*		9.7 *(4.4)*	9.0 *(4.0)*	8.2 *(3.7)*	60 *(18.3)*			6.4 *(2.9)*	5.6 *(2.5)*
70 *(21.3)*			7.8 *(3.5)*	7.9 *(3.5)*	70 *(21.3)*			8.0 *(3.6)*	7.2 *(3.2)*	70 *(21.3)*				5.0 *(2.2)*
80 *(24.4)*				6.5 *(2.9)*	80 *(24.4)*				6.4 *(2.9)*					

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

50 ft (*15.2m*) Main Boom Length – 360° Rotation – AB or AB+XL Counterweight
[All capacities are listed in kips (*mt*)]

5° Offset					17.5° Offset					30° Offset				
Load Radius ft (*m*)	Jib Length ft *(m)*				Load Radius ft (*m*)	Jib Length ft *(m)*				Load Radius ft (*m*)	Jib Length ft *(m)*			
	20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*		20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*		20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*
18 *(5.5)*	20.0 *(9.0)*				18 *(5.5)*					18 *(5.5)*				
19 *(5.8)*	20.0 *(9.0)*				19 *(5.8)*					19 *(5.8)*				
20 *(6.1)*	20.0 *(9.0)*	20.0 *(9.0)*			20 *(6.1)*					20 *(6.1)*				
25 *(7.6)*	20.0 *(9.0)*	20.0 *(9.0)*	20.0 *(9.0)*	19.2 *(8.7)*	25 *(7.6)*	20.0 *(9.0)*				25 *(7.6)*	14.9 *(6.7)*			
30 *(9.1)*	20.0 *(9.0)*	20.0 *(9.0)*	19.7 *(8.9)*	17.4 *(7.9)*	30 *(9.1)*	20.0 *(9.0)*	18.1 *(8.2)*			30 *(9.1)*	13.7 *(6.2)*			
35 *(10.7)*	19.5 *(8.8)*	19.7 *(8.9)*	17.5 *(7.9)*	16.0 *(7.2)*	35 *(10.7)*	19.2 *(8.7)*	16.3 *(7.4)*	14.5 *(6.5)*	13.1 *(5.9)*	35 *(10.7)*	12.7 *(5.7)*	10.6 *(4.8)*		
40 *(12.2)*	16.3 *(7.4)*	16.5 *(7.4)*	16.3 *(7.4)*	14.4 *(6.5)*	40 *(12.2)*	16.5 *(7.4)*	14.8 *(6.7)*	13.2 *(5.9)*	11.9 *(5.4)*	40 *(12.2)*	11.9 *(5.4)*	9.9 *(4.5)*	8.5 *(3.8)*	
50 *(15.2)*	11.9 *(5.4)*	12.1 *(5.4)*	12.3 *(5.5)*	11.9 *(5.4)*	50 *(15.2)*	12.1 *(5.4)*	12.4 *(5.6)*	11.1 *(5.0)*	10.1 *(4.5)*	50 *(15.2)*	10.7 *(4.8)*	8.7 *(3.9)*	7.5 *(3.4)*	6.6 *(3.0)*
60 *(18.3)*	9.2 *(4.1)*	9.4 *(4.2)*	9.5 *(4.3)*	9.6 *(4.3)*	60 *(18.3)*	9.3 *(4.2)*	9.5 *(4.3)*	9.7 *(4.4)*	8.7 *(3.9)*	60 *(18.3)*		7.9 *(3.5)*	6.7 *(3.0)*	5.8 *(2.6)*
70 *(21.3)*		7.5 *(3.4)*	7.6 *(3.4)*	7.7 *(3.5)*	70 *(21.3)*		7.6 *(3.4)*	7.8 *(3.5)*	7.7 *(3.5)*	70 *(21.3)*			6.1 *(2.7)*	5.3 *(2.4)*
80 *(24.4)*			6.2 *(2.8)*	6.3 *(2.8)*	80 *(24.4)*			6.3 *(2.8)*	6.4 *(2.9)*	80 *(24.4)*				4.8 *(2.1)*
90 *(27.4)*				5.2 *(2.3)*	90 *(27.4)*				5.3 *(2.4)*					

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

60 ft (*18.3m*) Main Boom Length – 360° Rotation – AB or AB+XL Counterweight
[All capacities are listed in kips (*mt*)]

5° Offset					17.5° Offset					30° Offset				
Load Radius ft (*m*)	Jib Length ft *(m)*				Load Radius ft (*m*)	Jib Length ft *(m)*				Load Radius ft (*m*)	Jib Length ft *(m)*			
	20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*		20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*		20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*
19 *(5.8)*	20.0 *(9.0)*				19 *(5.8)*					19 *(5.8)*				
20 *(6.1)*	20.0 *(9.0)*				20 *(6.1)*					20 *(6.1)*				
25 *(7.6)*	20.0 *(9.0)*	20.0 *(9.0)*	20.0 *(9.0)*		25 *(7.6)*	20.0 *(9.0)*				25 *(7.6)*				
30 *(9.1)*	20.0 *(9.0)*	20.0 *(9.0)*	19.4 *(8.8)*	17.0 *(7.7)*	30 *(9.1)*	20.0 *(9.0)*	18.6 *(8.4)*			30 *(9.1)*	14.2 *(6.4)*			
35 *(10.7)*	19.3 *(8.7)*	19.5 *(8.8)*	17.2 *(7.8)*	15.8 *(7.1)*	35 *(10.7)*	19.6 *(8.9)*	17.0 *(7.7)*	14.8 *(6.7)*		35 *(10.7)*	13.2 *(5.9)*	10.9 *(4.9)*		
40 *(12.2)*	16.1 *(7.3)*	16.3 *(7.4)*	16.2 *(7.3)*	14.2 *(6.4)*	40 *(12.2)*	16.3 *(7.4)*	15.7 *(7.1)*	13.6 *(6.1)*	11.8 *(5.3)*	40 *(12.2)*	12.5 *(5.6)*	10.2 *(4.6)*	8.8 *(4.0)*	
50 *(15.2)*	11.7 *(5.3)*	11.9 *(5.4)*	12.0 *(5.4)*	11.7 *(5.3)*	50 *(15.2)*	11.9 *(5.4)*	12.2 *(5.5)*	11.6 *(5.2)*	10.1 *(4.5)*	50 *(15.2)*	11.2 *(5.0)*	9.1 *(4.1)*	7.7 *(3.5)*	6.8 *(3.0)*
60 *(18.3)*	8.9 *(4.0)*	9.1 *(4.1)*	9.2 *(4.1)*	9.3 *(4.2)*	60 *(18.3)*	9.1 *(4.1)*	9.3 *(4.2)*	9.5 *(4.3)*	8.8 *(4.0)*	60 *(18.3)*	9.2 *(4.1)*	8.3 *(3.7)*	7.0 *(3.1)*	6.0 *(2.7)*
70 *(21.3)*	7.0 *(3.1)*	7.2 *(3.2)*	7.3 *(3.3)*	7.4 *(3.3)*	70 *(21.3)*	7.1 *(3.2)*	7.4 *(3.3)*	7.5 *(3.4)*	7.7 *(3.5)*	70 *(21.3)*		7.5 *(3.4)*	6.4 *(2.9)*	5.5 *(2.5)*
80 *(24.4)*		5.8 *(2.6)*	5.9 *(2.6)*	6.0 *(2.7)*	80 *(24.4)*		5.9 *(2.6)*	6.1 *(2.7)*	6.2 *(2.8)*	80 *(24.4)*			5.9 *(2.6)*	5.0 *(2.2)*
90 *(27.4)*			4.8 *(2.1)*	4.9 *(2.2)*	90 *(27.4)*				5.1 *(2.3)*	90 *(27.4)*				4.7 *(2.1)*
100 *(30.5)*				4.1 *(1.8)*	100 *(30.5)*					100 *(30.5)*				

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

70 ft (*21.3m*) Main Boom Length – 360° Rotation – AB or AB+XL Counterweight
[All capacities are listed in kips (*mt*)]

5° Offset					17.5° Offset					30° Offset				
Load Radius ft (*m*)	Jib Length ft *(m)*				Load Radius ft (*m*)	Jib Length ft *(m)*				Load Radius ft (*m*)	Jib Length ft *(m)*			
	20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*		20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*		20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*
25 *(7.6)*	20.0 *(9.0)*	20.0 *(9.0)*			25 *(7.6)*	20.0 *(9.0)*				25 *(7.6)*				
30 *(9.1)*	20.0 *(9.0)*	20.0 *(9.0)*	19.3 *(8.7)*	16.8 *(7.6)*	30 *(9.1)*	20.0 *(9.0)*	18.2 *(8.2)*			30 *(9.1)*	14.5 *(6.5)*			
35 *(10.7)*	19.1 *(8.6)*	19.3 *(8.7)*	17.2 *(7.8)*	15.8 *(7.1)*	35 *(10.7)*	19.4 *(8.8)*	16.6 *(7.5)*	14.5 *(6.5)*		35 *(10.7)*	13.7 *(6.2)*	11.2 *(5.0)*		
40 *(12.2)*	15.9 *(7.2)*	16.1 *(7.3)*	16.2 *(7.3)*	14.2 *(6.4)*	40 *(12.2)*	16.2 *(7.3)*	16.1 *(7.3)*	13.3 *(6.0)*	11.5 *(5.2)*	40 *(12.2)*	12.9 *(5.8)*	10.5 *(4.7)*		
50 *(15.2)*	11.5 *(5.2)*	11.7 *(5.3)*	11.8 *(5.3)*	11.7 *(5.3)*	50 *(15.2)*	11.7 *(5.3)*	12.0 *(5.4)*	11.5 *(5.2)*	9.8 *(4.4)*	50 *(15.2)*	11.7 *(5.3)*	9.4 *(4.2)*	8.0 *(3.6)*	6.9 *(3.1)*
60 *(18.3)*	8.7 *(3.9)*	8.9 *(4.0)*	9.0 *(4.0)*	9.1 *(4.1)*	60 *(18.3)*	8.9 *(4.0)*	9.1 *(4.1)*	9.3 *(4.2)*	8.6 *(3.9)*	60 *(18.3)*	9.0 *(4.0)*	8.6 *(3.9)*	7.2 *(3.2)*	6.2 *(2.8)*
70 *(21.3)*	6.8 *(3.0)*	7.0 *(3.1)*	7.1 *(3.2)*	7.2 *(3.2)*	70 *(21.3)*	6.9 *(3.1)*	7.2 *(3.2)*	7.4 *(3.3)*	7.5 *(3.4)*	70 *(21.3)*		7.3 *(3.3)*	6.6 *(3.0)*	5.7 *(2.5)*
80 *(24.4)*	5.4 *(2.4)*	5.6 *(2.5)*	5.7 *(2.5)*	5.8 *(2.6)*	80 *(24.4)*		5.7 *(2.5)*	5.9 *(2.6)*	6.0 *(2.7)*	80 *(24.4)*			6.1 *(2.7)*	5.2 *(2.3)*
90 *(27.4)*		4.5 *(2.0)*	4.6 *(2.0)*	4.7 *(2.1)*	90 *(27.4)*			4.8 *(2.1)*	4.9 *(2.2)*	90 *(27.4)*				4.9 *(2.2)*
100 *(30.5)*			3.8 *(1.7)*	3.8 *(1.7)*	100 *(30.5)*				4.0 *(1.8)*	100 *(30.5)*				
110 *(33.5)*				3.1 *(1.4)*	110 *(33.5)*					110 *(33.5)*				

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

80 ft (*24.4m*) Main Boom Length – 360° Rotation – AB or AB+XL Counterweight
[All capacities are listed in kips (*mt*)]

5° Offset					17.5° Offset					30° Offset				
Load Radius ft (*m*)	Jib Length ft *(m)*				Load Radius ft (*m*)	Jib Length ft *(m)*				Load Radius ft (*m*)	Jib Length ft *(m)*			
	20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*		20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*		20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*
25 *(7.6)*	20.0 *(9.0)*	20.0 *(9.0)*			25 *(7.6)*					25 *(7.6)*				
30 *(9.1)*	20.0 *(9.0)*	20.0 *(9.0)*	19.3 *(8.7)*		30 *(9.1)*	20.0 *(9.0)*				30 *(9.1)*	14.9 *(6.7)*			
35 *(10.7)*	18.9 *(8.5)*	19.1 *(8.6)*	17.2 *(7.8)*	15.8 *(7.1)*	35 *(10.7)*	19.3 *(8.7)*	16.7 *(7.5)*			35 *(10.7)*	14.0 *(6.3)*			
40 *(12.2)*	15.6 *(7.0)*	15.8 *(7.1)*	16.0 *(7.2)*	14.2 *(6.4)*	40 *(12.2)*	16.0 *(7.2)*	16.0 *(7.2)*	13.2 *(5.9)*	11.3 *(5.1)*	40 *(12.2)*	13.3 *(6.0)*	10.8 *(4.9)*		
50 *(15.2)*	11.3 *(5.1)*	11.4 *(5.1)*	11.6 *(5.2)*	11.7 *(5.3)*	50 *(15.2)*	11.5 *(5.2)*	11.8 *(5.3)*	11.4 *(5.1)*	9.7 *(4.4)*	50 *(15.2)*	11.7 *(5.3)*	9.7 *(4.4)*	8.2 *(3.7)*	7.1 *(3.2)*
60 *(18.3)*	8.5 *(3.8)*	8.7 *(3.9)*	8.8 *(4.0)*	8.9 *(4.0)*	60 *(18.3)*	8.7 *(3.9)*	8.9 *(4.0)*	9.2 *(4.1)*	8.5 *(3.8)*	60 *(18.3)*	8.8 *(4.0)*	8.9 *(4.0)*	7.4 *(3.3)*	6.4 *(2.9)*
70 *(21.3)*	6.6 *(3.0)*	6.7 *(3.0)*	6.9 *(3.1)*	6.9 *(3.1)*	70 *(21.3)*	6.7 *(3.0)*	7.0 *(3.1)*	7.2 *(3.2)*	7.3 *(3.3)*	70 *(21.3)*	6.8 *(3.0)*	7.1 *(3.2)*	6.9 *(3.1)*	5.8 *(2.6)*
80 *(24.4)*	5.2 *(2.3)*	5.3 *(2.4)*	5.5 *(2.5)*	5.5 *(2.5)*	80 *(24.4)*	5.3 *(2.4)*	5.5 *(2.5)*	5.7 *(2.5)*	5.8 *(2.6)*	80 *(24.4)*		5.6 *(2.5)*	5.9 *(2.6)*	5.4 *(2.4)*
90 *(27.4)*	4.1 *(1.8)*	4.3 *(1.9)*	4.4 *(2.0)*	4.5 *(2.0)*	90 *(27.4)*		4.4 *(2.0)*	4.6 *(2.0)*	4.7 *(2.1)*	90 *(27.4)*			4.7 *(2.1)*	4.9 *(2.2)*
100 *(30.5)*		3.4 *(1.5)*	3.5 *(1.5)*	3.6 *(1.6)*	100 *(30.5)*			3.7 *(1.6)*	3.8 *(1.7)*	100 *(30.5)*				4.0 *(1.8)*
110 *(33.5)*			2.8 *(1.2)*	2.9 *(1.3)*	110 *(33.5)*				3.1 *(1.4)*	110 *(33.5)*				
120 *(36.6)*				2.3 *(1.0)*	120 *(36.6)*					120 *(36.6)*				

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

90 ft (*27.4m*) Main Boom Length – 360° Rotation – AB or AB+XL Counterweight
[All capacities are listed in kips (*mt*)]

5° Offset					17.5° Offset					30° Offset				
Load Radius ft (*m*)	Jib Length ft *(m)*				Load Radius ft (*m*)	Jib Length ft *(m)*				Load Radius ft (*m*)	Jib Length ft *(m)*			
	20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*		20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*		20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*
25 *(7.6)*	20.0 *(9.0)*				25 *(7.6)*					25 *(7.6)*				
30 *(9.1)*	20.0 *(9.0)*	20.0 *(9.0)*	19.3 *(8.7)*		30 *(9.1)*	20.0 *(9.0)*				30 *(9.1)*				
35 *(10.7)*	18.6 *(8.4)*	18.8 *(8.5)*	17.3 *(7.8)*	15.9 *(7.2)*	35 *(10.7)*	19.1 *(8.6)*	16.7 *(7.5)*			35 *(10.7)*	14.3 *(6.4)*			
40 *(12.2)*	15.4 *(6.9)*	15.6 *(7.0)*	15.8 *(7.1)*	14.3 *(6.4)*	40 *(12.2)*	15.8 *(7.1)*	15.9 *(7.2)*	13.1 *(5.9)*		40 *(12.2)*	13.6 *(6.1)*	11.0 *(4.9)*		
50 *(15.2)*	11.0 *(4.9)*	11.2 *(5.0)*	11.3 *(5.1)*	11.4 *(5.1)*	50 *(15.2)*	11.3 *(5.1)*	11.6 *(5.2)*	11.3 *(5.1)*	9.6 *(4.3)*	50 *(15.2)*	11.5 *(5.2)*	10.0 *(4.5)*	8.3 *(3.7)*	
60 *(18.3)*	8.3 *(3.7)*	8.4 *(3.8)*	8.6 *(3.9)*	8.6 *(3.9)*	60 *(18.3)*	8.5 *(3.8)*	8.7 *(3.9)*	9.0 *(4.0)*	8.5 *(3.8)*	60 *(18.3)*	8.6 *(3.9)*	9.0 *(4.0)*	7.6 *(3.4)*	6.5 *(2.9)*
70 *(21.3)*	6.4 *(2.9)*	6.5 *(2.9)*	6.6 *(3.0)*	6.7 *(3.0)*	70 *(21.3)*	6.5 *(2.9)*	6.8 *(3.0)*	7.0 *(3.1)*	7.1 *(3.2)*	70 *(21.3)*	6.6 *(3.0)*	7.0 *(3.1)*	7.1 *(3.2)*	6.0 *(2.7)*
80 *(24.4)*	5.0 *(2.2)*	5.1 *(2.3)*	5.2 *(2.3)*	5.3 *(2.4)*	80 *(24.4)*	5.1 *(2.3)*	5.3 *(2.4)*	5.5 *(2.5)*	5.6 *(2.5)*	80 *(24.4)*	5.2 *(2.3)*	5.5 *(2.5)*	5.7 *(2.5)*	5.6 *(2.5)*
90 *(27.4)*	3.9 *(1.7)*	4.0 *(1.8)*	4.1 *(1.8)*	4.2 *(1.9)*	90 *(27.4)*	4.0 *(1.8)*	4.2 *(1.9)*	4.3 *(1.9)*	4.5 *(2.0)*	90 *(27.4)*		4.3 *(1.9)*	4.5 *(2.0)*	4.7 *(2.1)*
100 *(30.5)*	3.0 *(1.3)*	3.2 *(1.4)*	3.3 *(1.5)*	3.4 *(1.5)*	100 *(30.5)*		3.3 *(1.5)*	3.5 *(1.5)*	3.6 *(1.6)*	100 *(30.5)*			3.6 *(1.6)*	3.8 *(1.7)*
110 *(33.5)*		2.5 *(1.1)*	2.6 *(1.1)*	2.7 *(1.2)*	110 *(33.5)*			2.7 *(1.2)*	2.8 *(1.2)*	110 *(33.5)*				3.0 *(1.3)*
120 *(36.6)*			2.0 *(0.9)*	2.1 *(0.9)*	120 *(36.6)*				2.2 *(1.0)*	120 *(36.6)*				
130 *(39.6)*				1.6 *(0.7)*	130 *(39.6)*					130 *(39.6)*				

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

100 ft (*30.5m*) Main Boom Length – 360° Rotation – AB or AB+XL Counterweight
[All capacities are listed in kips (*mt*)]

5° Offset					17.5° Offset					30° Offset				
Load Radius ft (*m*)	Jib Length ft *(m)*				Load Radius ft (*m*)	Jib Length ft *(m)*				Load Radius ft (*m*)	Jib Length ft *(m)*			
	20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*		20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*		20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*
30 *(9.1)*	20.0 *(9.0)*	20.0 *(9.0)*			30 *(9.1)*	20.0 *(9.0)*				30 *(9.1)*				
35 *(10.7)*	18.4 *(8.3)*	18.6 *(8.4)*	17.4 *(7.9)*	15.9 *(7.2)*	35 *(10.7)*	18.9 *(8.5)*	16.7 *(7.5)*			35 *(10.7)*	14.6 *(6.6)*			
40 *(12.2)*	15.2 *(6.9)*	15.4 *(6.9)*	15.6 *(7.0)*	14.4 *(6.5)*	40 *(12.2)*	15.6 *(7.0)*	15.9 *(7.2)*	13.0 *(5.9)*		40 *(12.2)*	13.9 *(6.3)*	11.2 *(5.0)*		
50 *(15.2)*	10.8 *(4.9)*	11.0 *(4.9)*	11.1 *(5.0)*	11.2 *(5.0)*	50 *(15.2)*	11.1 *(5.0)*	11.4 *(5.1)*	11.3 *(5.1)*	9.5 *(4.3)*	50 *(15.2)*	11.4 *(5.1)*	10.2 *(4.6)*	8.5 *(3.8)*	
60 *(18.3)*	8.0 *(3.6)*	8.2 *(3.7)*	8.3 *(3.7)*	8.4 *(3.8)*	60 *(18.3)*	8.3 *(3.7)*	8.5 *(3.8)*	8.8 *(4.0)*	8.4 *(3.8)*	60 *(18.3)*	8.5 *(3.8)*	8.8 *(4.0)*	7.8 *(3.5)*	6.6 *(3.0)*
70 *(21.3)*	6.1 *(2.7)*	6.3 *(2.8)*	6.4 *(2.9)*	6.5 *(2.9)*	70 *(21.3)*	6.3 *(2.8)*	6.5 *(2.9)*	6.8 *(3.0)*	6.9 *(3.1)*	70 *(21.3)*	6.4 *(2.9)*	6.8 *(3.0)*	7.1 *(3.2)*	6.1 *(2.7)*
80 *(24.4)*	4.7 *(2.1)*	4.9 *(2.2)*	5.0 *(2.2)*	5.1 *(2.3)*	80 *(24.4)*	4.9 *(2.2)*	5.1 *(2.3)*	5.3 *(2.4)*	5.4 *(2.4)*	80 *(24.4)*	5.0 *(2.2)*	5.3 *(2.4)*	5.5 *(2.5)*	5.7 *(2.5)*
90 *(27.4)*	3.6 *(1.6)*	3.8 *(1.7)*	3.9 *(1.7)*	4.0 *(1.8)*	90 *(27.4)*	3.8 *(1.7)*	4.0 *(1.8)*	4.1 *(1.8)*	4.3 *(1.9)*	90 *(27.4)*		4.1 *(1.8)*	4.3 *(1.9)*	4.6 *(2.0)*
100 *(30.5)*	2.8 *(1.2)*	2.9 *(1.3)*	3.0 *(1.3)*	3.1 *(1.4)*	100 *(30.5)*	2.9 *(1.3)*	3.1 *(1.4)*	3.2 *(1.4)*	3.4 *(1.5)*	100 *(30.5)*			3.4 *(1.5)*	3.6 *(1.6)*
110 *(33.5)*	2.1 *(0.9)*	2.2 *(1.0)*	2.4 *(1.0)*	2.4 *(1.0)*	110 *(33.5)*		2.3 *(1.0)*	2.5 *(1.1)*	2.6 *(1.1)*	110 *(33.5)*				2.8 *(1.2)*
120 *(36.6)*		1.7 *(0.7)*	1.8 *(0.8)*	1.9 *(0.8)*	120 *(36.6)*			1.9 *(0.8)*	2.0 *(0.9)*	120 *(36.6)*				
130 *(39.6)*			1.3 *(0.5)*	1.4 *(0.6)*	130 *(39.6)*				1.5 *(0.6)*	130 *(39.6)*				
140 *(42.7)*				1.0 *(0.4)*	140 *(42.7)*					140 *(42.7)*				

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110 ft (*33.5m*) Main Boom Length – 360° Rotation – AB or AB+XL Counterweight
[All capacities are listed in kips (*mt*)]

5° Offset					17.5° Offset					30° Offset				
Load Radius ft (*m*)	Jib Length ft *(m)*				Load Radius ft (*m*)	Jib Length ft *(m)*				Load Radius ft (*m*)	Jib Length ft *(m)*			
	20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*		20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*		20 *(6.1)*	30 *(9.1)*	40 *(12.2)*	50 *(15.2)*
30 *(9.1)*	20.0 *(9.0)*				30 *(9.1)*					30 *(9.1)*				
35 *(10.7)*	18.2 *(8.2)*	18.4 *(8.3)*	17.4 *(7.9)*		35 *(10.7)*	18.7 *(8.4)*				35 *(10.7)*				
40 *(12.2)*	15.0 *(6.8)*	15.2 *(6.9)*	15.3 *(6.9)*	14.4 *(6.5)*	40 *(12.2)*	15.4 *(6.9)*	15.8 *(7.1)*			40 *(12.2)*	14.2 *(6.4)*			
50 *(15.2)*	10.6 *(4.8)*	10.8 *(4.9)*	10.9 *(4.9)*	11.0 *(4.9)*	50 *(15.2)*	10.9 *(4.9)*	11.2 *(5.0)*	11.2 *(5.0)*	9.5 *(4.3)*	50 *(15.2)*	11.2 *(5.0)*	10.4 *(4.7)*	8.6 *(3.9)*	
60 *(18.3)*	7.8 *(3.5)*	8.0 *(3.6)*	8.1 *(3.6)*	8.2 *(3.7)*	60 *(18.3)*	8.1 *(3.6)*	8.3 *(3.7)*	8.6 *(3.9)*	8.4 *(3.8)*	60 *(18.3)*	8.3 *(3.7)*	8.7 *(3.9)*	8.0 *(3.6)*	6.8 *(3.0)*
70 *(21.3)*	5.9 *(2.6)*	6.0 *(2.7)*	6.2 *(2.8)*	6.2 *(2.8)*	70 *(21.3)*	6.1 *(2.7)*	6.3 *(2.8)*	6.6 *(3.0)*	6.7 *(3.0)*	70 *(21.3)*	6.3 *(2.8)*	6.6 *(3.0)*	6.9 *(3.1)*	6.3 *(2.8)*
80 *(24.4)*	4.5 *(2.0)*	4.6 *(2.0)*	4.7 *(2.1)*	4.8 *(2.1)*	80 *(24.4)*	4.6 *(2.0)*	4.9 *(2.2)*	5.1 *(2.3)*	5.2 *(2.3)*	80 *(24.4)*	4.8 *(2.1)*	5.1 *(2.3)*	5.4 *(2.4)*	5.6 *(2.5)*
90 *(27.4)*	3.4 *(1.5)*	3.5 *(1.5)*	3.7 *(1.6)*	3.7 *(1.6)*	90 *(27.4)*	3.5 *(1.5)*	3.7 *(1.6)*	3.9 *(1.7)*	4.1 *(1.8)*	90 *(27.4)*	3.6 *(1.6)*	3.9 *(1.7)*	4.2 *(1.9)*	4.4 *(2.0)*
100 *(30.5)*	2.6 *(1.1)*	2.7 *(1.2)*	2.8 *(1.2)*	2.9 *(1.3)*	100 *(30.5)*	2.7 *(1.2)*	2.9 *(1.3)*	3.0 *(1.3)*	3.2 *(1.4)*	100 *(30.5)*		3.0 *(1.3)*	3.2 *(1.4)*	3.4 *(1.5)*
110 *(33.5)*	1.9 *(0.8)*	2.0 *(0.9)*	2.1 *(0.9)*	2.2 *(1.0)*	110 *(33.5)*	1.9 *(0.8)*	2.1 *(0.9)*	2.3 *(1.0)*	2.4 *(1.0)*	110 *(33.5)*			2.4 *(1.0)*	2.6 *(1.1)*
120 *(36.6)*	1.3 *(0.5)*	1.4 *(0.6)*	1.5 *(0.6)*	1.6 *(0.7)*	120 *(36.6)*		1.5 *(0.6)*	1.7 *(0.7)*	1.8 *(0.8)*	120 *(36.6)*				2.0 *(0.9)*
130 *(39.6)*		1.0 *(0.4)*	1.1 *(0.5)*	1.1 *(0.5)*	130 *(39.6)*				1.3 *(0.5)*	130 *(39.6)*				

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