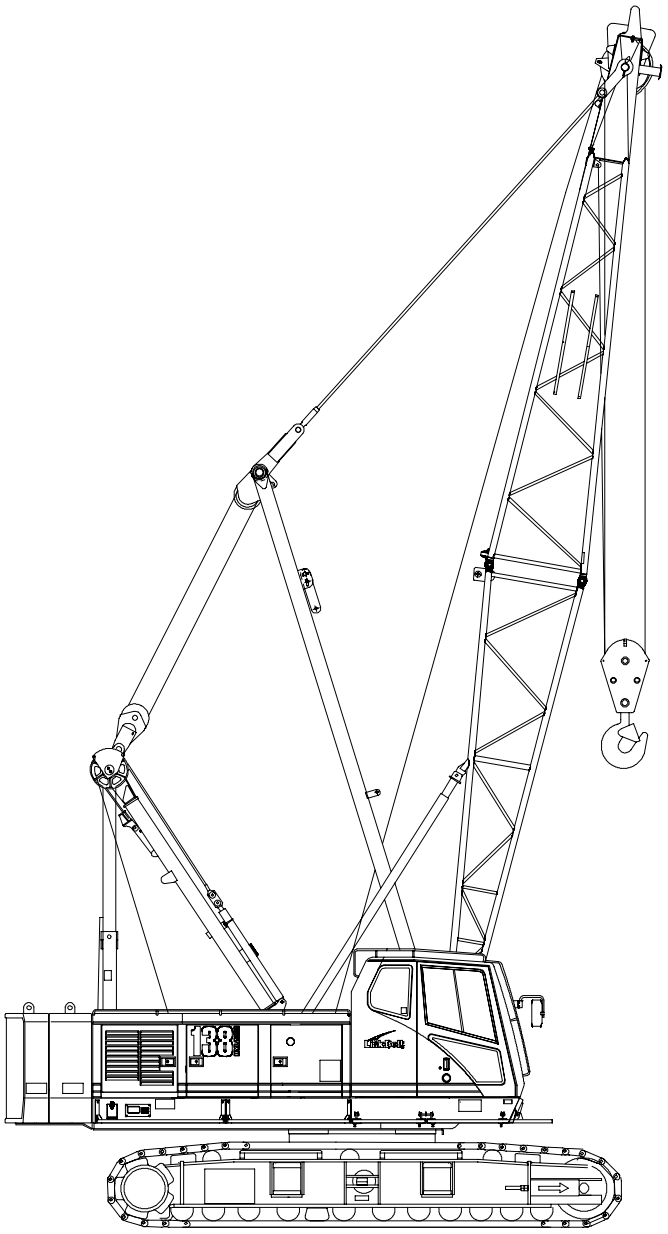
Technical Data

Specifications & **Tube** Boom Capacities

138 HYLAB 5

Crawler Crane

80 Ton ***(72.6 metric ton)***



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

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Specifications

138 HYLAB 5

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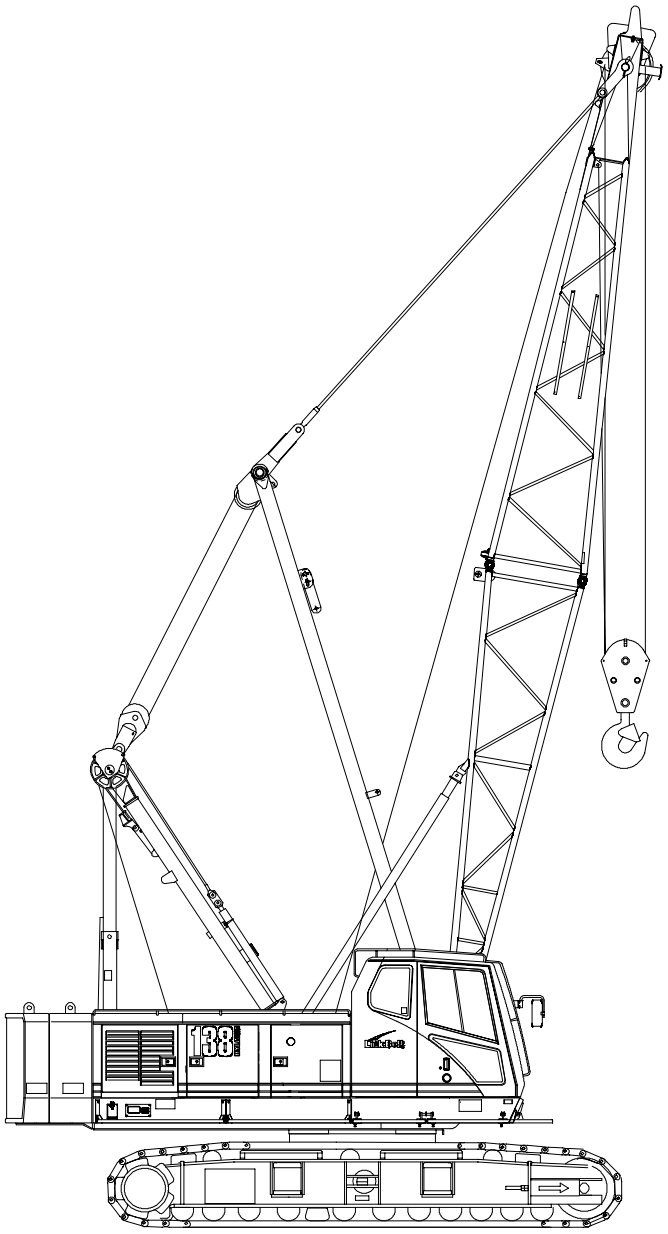

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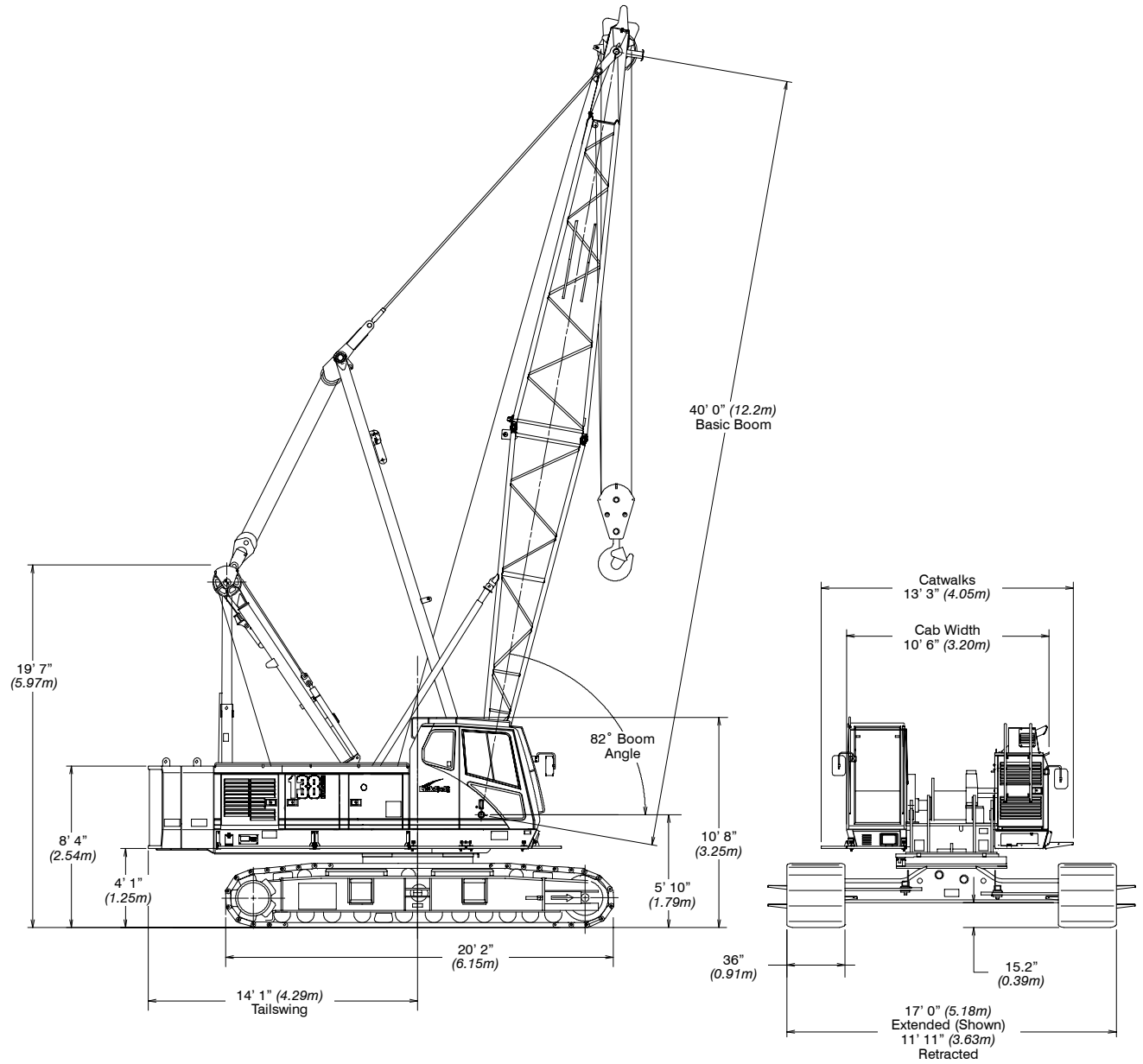
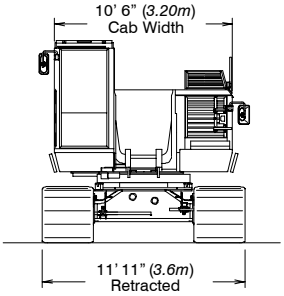
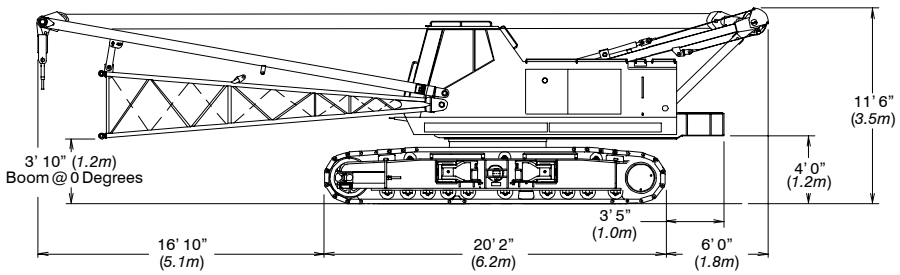
General Dimensions	English	*Metric*
Tailswing of counterweight “A”	13’ 3”	*4.04m*
Maximum live mast working height	30’ 9”	*9.4m*
Boom foot pin diameter	3.5”	*8.9cm*
Distance between inside of boom foot lugs	27”	*0.7m*



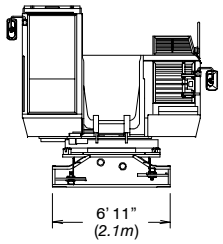
138 HYLAB 5 Crane Transport Weights – approximate

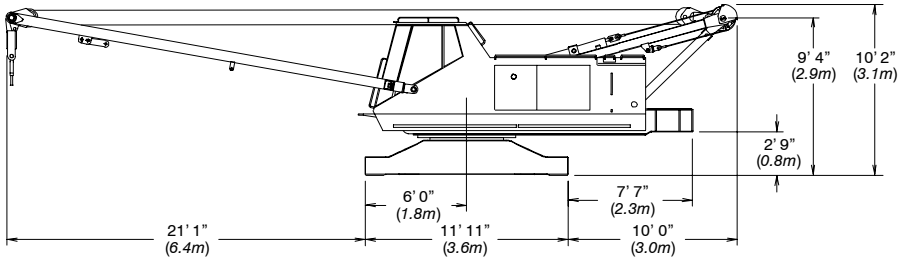


Basic Unit
Bare, no attachment, no rope, no backstops, catwalks on, 1/4 tank of fuel
80,840 lb (*36 668kg*)

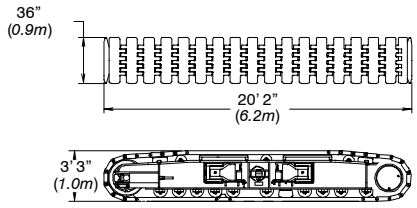


Transport Weight
Rope on both drums, backstops, catwalks, and 1/3 tank of fuel
Tubular: 89,778 lb *(40 723kg)*
Angle: 90,678 lb (*41 131kg*)

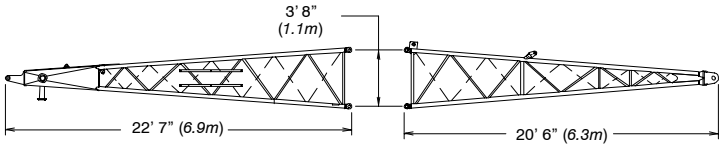




Upper & Carbody Shipping Weight
Rope on both drums, backstops, catwalks, and full of fuel
51,392 lb (*23 311kg*)

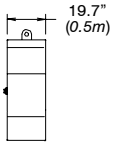


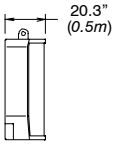
Side Frames w/ 36" (*0.9m*) Shoes
18,380 lb (*8 337kg*)



20' (*6.1m*) Top Section
Tubular: 2,700 lb (*1 225kg*)
Angle: 3,500 lb (*1 588kg*)

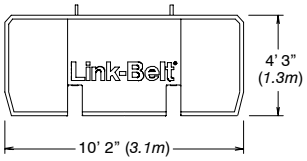
20' (*6.1m*) Base Section
Tubular: 1,988 lb (*902kg*)
Angle: 2,853 lb (*1 294kg*)

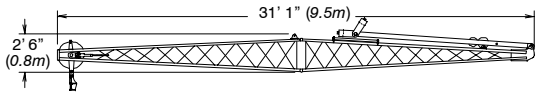




"A" Upper Counterweight
25,250 lb (*11 450kg*)

"B" Upper Counterweight
25,250 lb (*11 450kg*)





30' (*9.1m*) Basic Tubular Jib Assembly
1,683 lb (*763kg*)

Front Mounted Third Drum
1,345 lb (*610kg*) – w/o Rope

Transportation Weights

Base Crane: Rigid Boom Backstops, 27 gal *(102.2L)* of Fuel, Catwalks (front, right, and left side), 20' *(6.10m)* Tube Base Section, 24' *(7.32m)* Live Mast with Bridle & Spreader Bar, 14–Part Boom Hoist Reeving, 700' *(213m)* of Type "DB" Front Hoist Rope, 540' (*165m*) of Type "RB" Rear Hoist Rope.

Item Description	Gross Weight		Transport Loads		
	lb	*kg*	Load #1	Load #2	Load #3
Base Crane	89,778	*40 723*	1		
Add "A" Counterweight	25,250	*11 453*			1
Add "B" Counterweight	25,250	*11 453*		1	
Add Hydraulic Third Drum Without Rope	1,345	*610*			
Add 20' *(6.1m)* Tube Top Section	2,700	*1 225*		1	
Add 10' (*3.05m*) Tube Extension With Pins & Pendants	677	*307*			1
Add 20' (*6.1m*) Tube Extension With Pins & Pendants	1,076	*488*		1	2
Add 30' (*9.1m*) Tube Extension With Pins & Pendants	1,481	*672*		2	1
Add 20' (*6.1m*) Angle Base Section	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	*1 542*			
Add 20' (*6.1m*) Angle Top Section With 2 Lifting Sheaves	3,300	*1 497*			
Add 10' (*3.05m*) Angle Extension With Pins & Pendants	992	*450*			
Add 20' (*6.1m*) Angle Extension With Pins & Pendants	1,625	*737*			
Add 30' (*9.1m*) Angle Extension With Pins & Pendants	2,264	*1 027*			
Add Bridle & Spreader Bar Only (No Live Mast)	990	*449*			
Add Tagline Winder	760	*345*			
Add Fairleader	1,272	*577*			
Add 30' (*9.1m*) Tube Jib	1,683	*763*			1
Add 15' (*4.6m*) Tube Jib Extension	317	*144*			2
Add 5' (*1.5m*) Auxiliary Tip Extension	735	*333*			
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 105' Type "M"	141	*64*			
Add Hoist Rope – 0.88" x 210' Type "DB"	298	*135*			
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	191	*87*			
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	1,221	*554*		1	
Remove 20' Tube Base Section	–1,988	*–902*			
Remove Front Hoist Rope 0.88" X 700' Type "DB"	–944	*–428*			
Remove Jib Wire Rope 0.88" X 540' Type "RB"	–1,050	*–476*			
Remove 24' (*7.3m*) Live Mast With Bridle & Spreader Bar	–2,356	*–1 069*			
Add 50 gal (*189.3L*) Of Fuel	362	*164*			

Notes and Load Summary

Numbers in the load columns to the left represent quantities.

Estimated transport load assumes the load out consist of 200' *(60.96m)* of tube boom + 60' (*18.29m*) of jib with full counterweight.

Support loads were targeted at 45,000 lb (*20 412kg*), 8' 6" (*2.6m*) wide, 48' (*14.63m*) long, and 13' 6" (*4.11m*) high using a drop deck trailer. This may vary depending on state laws, empty truck/trailer weights, and style of trailer.

Estimated weights vary by +/– 2%.

Estimated Total Load #1
89,778 lb *(40 723kg)*.

Estimated Total Load #2
33,959 lb *(15 404kg)*.

Estimated Total Load #3
31,877 lb *(14 459kg)*.

Working Weights

Option	Description	Gross Weight lb (*kg*)	Ground Bearing Pressure psi (*kg/cm²*)
1	Base crane equipped with 40' *(12.2m*) of tubular boom, live mast, "A" counterweight, 700' *(213m)* front hoist rope, 540' *(165m)* rear hoist rope, 80–ton *(72.6mt)* hook block, 77 gal *(291.5L)* of fuel, and a 200 lb *(90.7kg)* operator.	119,511 *(54 209)*	7.62 *(0.53)*
2	Option #1 plus "B" counterweight, midpoint pendants, and 160' *(48.77m)* of boom extensions to obtain 200' *(60.96m)* of main boom.	153,109 *(69 449)*	9.76 *(0.69)*
3	Option #2 plus 60' *(18.29m)* of jib and 15–ton *(13.6mt)* hookball – subtract 20' *(6.10m)* of boom extension and midpoint pendants to obtain maximum 180' + 60' *(54.86 + 18.29m)* of main boom + jib.	155,100 *(70 352)*	9.88 *(0.70)*
4	Base crane equipped with 40' *(12.20m)* of angle boom, live mast, "A" counterweight, 700' *(213m)* front hoist rope, 540' *(165m)* rear hoist rope, 80–ton *(72.6mt)* hook block, 77 gal *(291.5L)* of fuel, and a 200 lb *(90.7kg)* operator.	121,176 *(54 965)*	7.72 *(0.54)*
5	Option #4 plus "B" counterweight and 110' *(33.53m)* of boom extensions to obtain 150' (*45.72m*) of main boom.	155,196 *(70 396)*	9.89 *(0.70)*
6	Option #5 plus 60' *(18.29m)* of jib and 15–ton (*13.6mt*) hookball to obtain maximum 150' + 60' *(45.72 + 18.29m)* of main boom + jib.	158,263 *(71 786)*	10.09 *(0.71)*

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 15,692 in^2 *(101,239cm^2)*.

Attachment Options

■ 40’-200’ Tube Boom *(12.19 - 60.96m)*

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

- Boom foot on 50” *(1.27m)* centers
- 3” *(76.2mm)* 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” *(0.46m)* 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’ *(3.05m)* increments. Midpoint pendant connections are required at 80’ *(24.38m)* for 190’ *(57.91m)* and 200’ *(60.96m*) boom lengths.

Tube Boom Extensions	Suggested Quantity for Maximum Boom
10’ (*3.05m*)	1
20’ (*6.10m*)	3
30’ (*9.14m*)	3

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

■ 40’-150’ Angle Boom *(12.19 - 45.72m)*

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

- Boom foot on 50” *(1.27m)* centers
- 4” X 4” X 0.38” *(101.6 x 101.6 x 9.7mm)* 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” *(0.46m)* 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’ *(3.05m)* increments. Midpoint pendant connections are not required.

Angle Boom Extensions	Suggested Quantity for Maximum Boom
10’ (*3.05m*)	1
20’ (*6.10m*)	2
30’ (*9.14m*)	2

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

■ 30’ - 60’ Tube Jib *(9.14- 18.29m)*

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

- 2” *(50.8mm)* diameter tubular chords
- One 18.5” *(0.47m)* root diameter steel sheave mounted on sealed anti-friction bearings.
- 15’ *(4.57m)* jib extensions provide jib lengths at 45’ *(13.72m*) and 60’ *(18.29m)*
- Jib offset angles at 5˚, 15˚, and 25˚
- Maximum tip height of boom + jib is 242’ *(73.76m)* using the tube boom and 204’ *(62.18m)* using the angle boom.

■ Auxiliary 5’ *(1.52m)* 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” *(0.39m)* root diameter steel sheave mounted on sealed anti-friction bearings. Maximum capacity is 9-ton *(8.16mt)*.

■ Boom Hoist System

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

- Retractable gantry frame
- Pin-on bail frame
- 14-part reeving with 5/8” *(15.88mm)* type “W” wire rope
- Bridle assembly
- 24’ *(7.31m)* live mast (optional for angle attachment)
- Two 1.25” *(31.75mm)* 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’ *(30.5m*) of tube boom.

Revolving Upperstructure

■ Frame

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

■ Engine

Mitsubishi 6D16-TLE2A with oil filter, oil cooler, air cleaner, fuel filter, water separator, hour meter, tachometer, and electrical shutdown.	
Number of cylinders	6
Bore and stroke - in (*mm*)	4.65 x 4.53 *(118 x 115)*
Piston displacement - in^3 (cm^3)	*460 (7 538)*
Engine rpm at full load speed	2,000
Hi-idle rpm	2,200
Gross horsepower (*kw*)	182 *(135)*
Peak torque - ft lb (*joule*)	535 *(726)*
Peak torque - rpm	1,600
Electrical system	24 volt
Batteries	2-12 volt

Approximate fuel consumption	gal/hr *(L/hr)*
100% hp	9.17 *(34.71)*
50% hp	4.58 *(17.34)*
25% hp	2.29 *(8.67)*
15% hp	1.38 *(5.22)*

■ Hydraulic System

Hydraulic Pumps - The pump arrangement is designed to provide precise control with independent or simultaneous operation of all crane functions.

- Pump P1 - Variable displacement, semi-closed loop, piston pump operating at 4,480 psi (*315kg/cm^2*) and 64 gpm (*242Lpm*). Supplies power for the front drum, rear drum, boom hoist drum, and travel.
- Pump P2 - Variable displacement, semi-closed loop, piston pump operating at 4,480 psi (*315kg/cm^2*) and 64 gpm (*242Lpm*). Supplies power for the front drum, rear drum, travel, and optional 4th drum.
- Pump P3 - Fixed displacement, open loop, gear pump operating at 3,556 psi (*250kg/cm^2*) and 33 gpm (*125Lpm*). Supplies power for swing and side frame retract cylinders.
- Pump P4 - Fixed displacement, open loop, gear pump operating at 1,422 psi (*100kg/cm^2*) and 12.7 gpm (*48Lpm*). Supplies power for remote mounted hydraulic oil cooler fan.
- Pump P5 - Fixed displacement, open loop, gear pump operating at 2,987 psi (*210kg/cm^2*) and 8.6 gpm (*33Lpm*). Supplies power for hydraulic remote control system and hydraulic counterweight self-assembly system.
- Pump P6 (Optional) - Fixed displacement, open loop, gear pump operating at 1,422 psi (*100kg/cm^2*) and 6.3 gpm (*24Lpm*). Supplies power for optional hydraulic tagline.

Pump Control ("Fine Inching") 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 - 53 gal *(200.6L)*, equipped with sight level gauge. Diffusers built in for deaeriation.

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" *(22.35mm)* grooved lagging
- Drum pawl controlled manually
- Electronic drum rotation indicators
- Mounted on anti-friction bearings
- 17.64" *(0.45m)* root diameter
- 29.92" *(0.76m)* flange diameter
- 19.84" *(0.50m)* width

Note: The freefall operation 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 - Power hydraulic two shoe clutch design that uses a 20" *(0.51mm)* diameter x 5" *(0.13mm*) wide shoe that internally expands to provide load control. Swept area is 314 in^2 *(2 026 cm^2).*

■ 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" *(0.27m)* root diameter
- 20" *(0.51m)* outside flange diameter
- 13.5" *(0.34m)* 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 automatically controlled brake
- 5/8" *(15.88mm*) grooved lagging
- Drum pawl controlled manually
- Mounted on anti-friction bearings
- 12.60" *(0.32m*) root diameter
- 24.41" *(0.62m*) flange diameter
- 9.57" *(0.24m*) 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 3.0 rpm

■ Upper Counterweight

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

- 25,250 lb *(11 453kg)* "A" upper counterweight
- 25,250 lb *(11 453kg)* "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
- Folding hinge entry door and sliding front glass window
- 19,000 BTU hot water heater
- 18,600 BTU air conditioner
- Door and window locks
- Circulating fan
- Sun visor
- Cloth seat
- Padded for noise and vibration reduction
- Defroster
- Windshield wipers and washer
- Dry chemical fire extinguisher
- Engine instrumentation panel (voltmeter, engine oil pressure, engine water temperature, fuel level, hydraulic oil temperature, hour meter, and service monitor system)
- Electronic drum rotation indicators for front and rear hoist drums
- Six way adjustable seat
- Hand and foot throttle
- Fully adjustable single axis controls
- Swing lever with swing brake and horn located on handle
- Bubble type level
- Ergonomic gauge layout
- Control shut off lever
- Right hand control stand is adjustable by electric motor for operator comfort
- Horn

■ 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
- Anti-Two Block Indicator
- Pre-Warning Light
- Overload Light
- Load On Hook
- Function kick-outs including over load
- Operator settable stops (Ramped Stops)
- Boom Hoist Dead End Load Cell (No Lineriders)
- Engine rpm Is Displayed On LCD1 Of Rated Capacity Limiter System

■ Additional Equipment - *Standard*

- 57.88" *(1.47m)* outside diameter turntable bearing
- Front, right, & left side removable catwalks
- 53 gal (*200.6L*) fuel tank (usable quantity)
- Crane 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" (*2.71m*) overall width
- 11' 11" (*3.63m*) overall length

■ Side Frames

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

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

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

- Individual control provides smooth, precise maneuverability including full counter-rotation
- Spring applied, hydraulically released disc type automatically controlled brake
- Maximum travel speed is 1.0 mph (*1.6km/h*) in high speed and 0.6 mph (*1km/h*) in low speed
- Designed to 30% gradeability

Load Hoisting Performance

Front Or Rear Drum – 7/8" (*22.22mm*) 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	32,377	*14 686*	300	*91*	91	*28*	18.5	*470*	100	*30*	100	*30*
2	29,581	*13 418*	329	*100*	100	*30*	20.3	*516*	109	*33*	209	*64*
3	27,229	*12 351*	357	*109*	109	*33*	22.0	*559*	119	*36*	327	*100*
4	25,224	*11 441*	386	*118*	117	*36*	23.8	*605*	128	*39*	455	*139*
5	23,493	*10 657*	414	*126*	126	*38*	25.5	*648*	137	*42*	593	*181*
6	21,985	*9 972*	442	*135*	134	*41*	27.3	*693*	147	*45*	740	*225*

Boom Hoist Drum – 5/8" (*15.88mm*) 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	17,856	*8 099*	186	*57*	177	*54*	13.2	*336*	48	*15*	48	*15*
2	16,313	*7 400*	203	*62*	193	*59*	14.5	*368*	52	*16*	100	*31*
3	15,017	*6 812*	221	*67*	210	*64*	15.7	*400*	57	*17*	157	*48*
4	13,911	*6 310*	238	*73*	227	*69*	17.0	*432*	61	*19*	218	*67*
5	12,956	*5 877*	256	*78*	243	*74*	18.3	*464*	66	*20*	284	*87*
6	12,125	*5 500*	274	*84*	260	*79*	19.5	*496*	70	*21*	355	*108*
7	11,393	*5 168*	291	*89*	277	*84*	20.8	*528*	75	*23*	430	*131*

Optional Third Drum – 5/8" (*15.88mm*) 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	*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 Applications

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 Seal – Extra Improved Plow Steel – Preformed – Right Lay – Regular Lay – I.W.R.C.
RB	19 x 19 Rotation Resistant – Extra Improved Plow Steel – Preformed – Right Lay – Regular Lay – Swaged
ZB	36 x 7 – Non–rotating – Extra Improved Plow Steel – Right Lay – Regular Lay
WB	8 Strand – Regular Lay
W	6 x 26 (6 X 19 Class) – Extra Improved Plow Steel – Preformed – Right Lay – Alternate Lay – I.W.R.C.

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

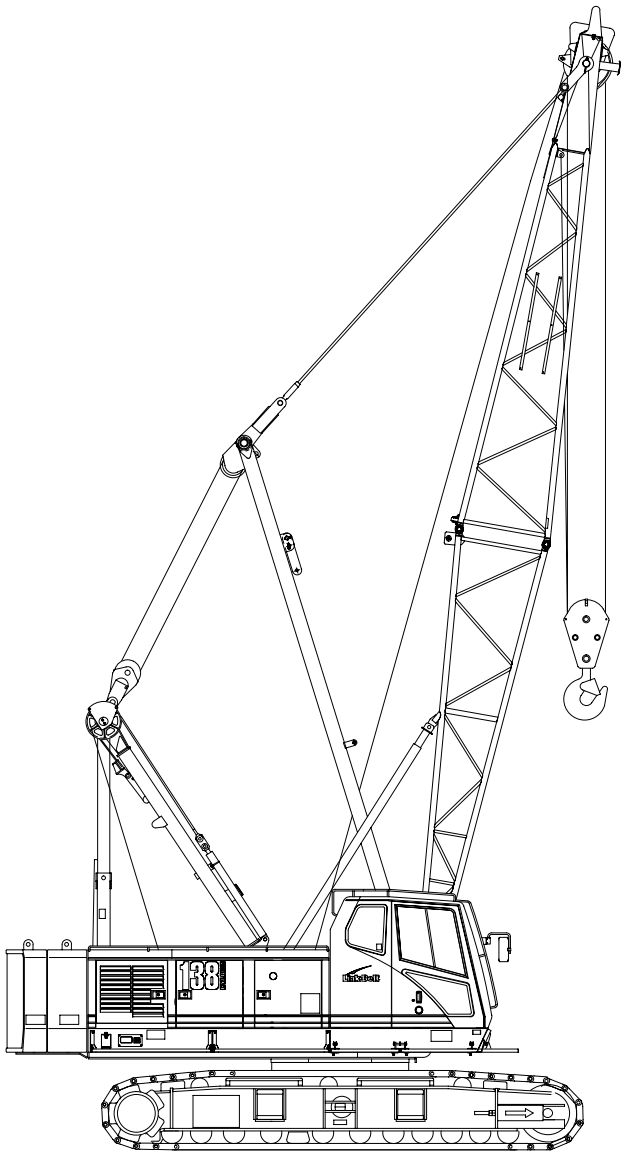
Link-Belt
CONSTRUCTION EQUIPMENT

Lifting Capacities

Lattice Boom Crawler Crane

138 HYLAB 5

80–ton *(72.6 metric ton)*



Tube Boom Capacities
40’ – 200’ *(12.19 – 60.96m)*

24’ *(7.31m)* Live Mast
- Extended/Retracted Side Frames

20’ *(6.10m)* Base Section
- Extended/Retracted Side Frames

5’ *(1.52m)* Tip Extension

Duty Cycle Capacities
- 40’ – 70’ *(12.19 – 21.34m)* Tube Boom
- Extended Side Frames
- “A” Counterweight

Tube Boom Capacities
- 40’ – 200’ *(12.19 – 60.96m)* Tube Boom
- 54” *(1.37m)* Wide x 44” *(1.12m)* Deep Boom
- 20’ *(6.10m)* Open Throat Top Section
- 24’ *(7.31m)* Live Mast
- Extended / Retracted Side Frames
- Over End Blocked Capacities
- “AB”, “A”, or “0” Counterweight Options
- 20’ 2” *(6.15m)* Crawler Length

CAUTION: This material is supplied for reference use only. Operator must refer to in–cab Crane Rating Manual to determine allowable crane 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.

LIFTING NOTES

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 at date of manufacture.

LIFT CRANE OPERATION:

1. Capacities shown are in pounds and are not more than 75% of the tipping loads with the crane standing level on firm supporting surface. A deduction must be made from these capacities for weight of hook block, hook ball, sling, grapple, load weighing device, etc. When using main hook while jib is attached, reduce capacities by values shown on Capacity Deductions For Lifting Off Main Boom Hook With Jib Installed. When using main hook while 5' tip extension is attached, reduce capacities by values shown on Capacity Deductions For Lifting Off Main Boom Hook With 5'. 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 the 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 24' live mast must be used for all capacities in the 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 the Crane Rating Manual. Any of the above can cause a tipping condition, or boom and jib failure.
10. These capacities apply only to the crane as originally manufactured and normally equipped by Link–Belt Construction Equipment Company.

FOR OVER END CAPACITIES ONLY

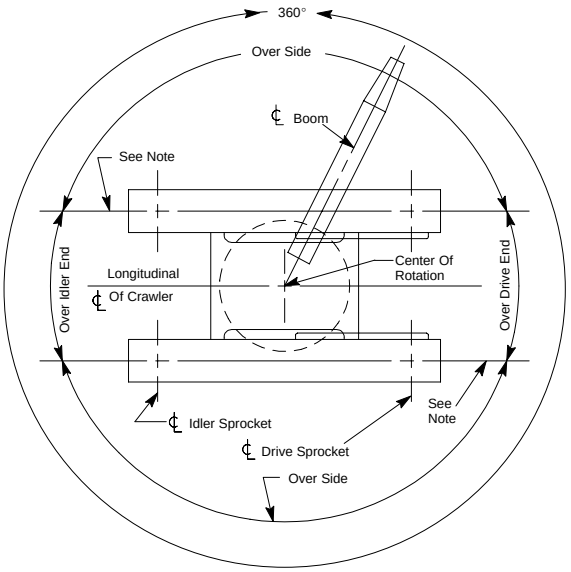
1. These capacities can be lifted over either end with the crane standing level on a firm supporting surface with adequate blocking placed under the side frame sprockets/idlers, to prevent rocking.
2. Do not travel with a load.

WIRE ROPE CAPACITY

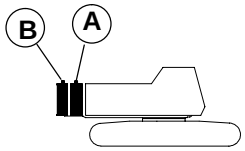
Parts of Line	7/8"		5/8"		
	Type "DB"	Type "RB"	Type "ZB"	Type "WB"	Notes
1	22,700	17,520	11,000	13,650	
2	45,400	35,040	22,000	27,310	Capacities shown are in pounds and working loads must not exceed the ratings on the capacity charts in the Crane Rating Manual. Study Operator's Manual for wire rope inspection procedures and single part of line applications.
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
ZB	36 x 7 Class – Non–Rotating – Extra Improved Plow Steel – Right Lay – Regular Lay
WB	8 Strand – Regular Lay

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 (ft)	Maximum Boom + Jib (ft)
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 (ft)	Maximum Boom + Jib (ft)
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:

1. Booms should be erected or lowered over the end with no load if possible – hook block on ground. (See Note 6).
2. Crane on firm and level surface.
3. Open throat booms 190' and 200' in length require midpoint suspension pendants.
4. Boom and jib combination of 190' + 30' does require midpoint suspension pendants.
5. Boom and jib combination of 180' + 60' does not require midpoint suspension pendants.
6. 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). The ramps supplied with the crane 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)	Offset Angle (deg)	Capacity Deduction (lb)
30	5	3,700
	15	4,800
	25	6,200
45	5	4,500
	15	6,400
	25	8,400
60	5	5,500
	15	7,900
	25	10,600

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

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

Tip Extension	Capacity Deduction (lb)
5' Tip Extension – Not Reeved	900
5' Tip Extension – With 15T Hook Ball	2,200

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

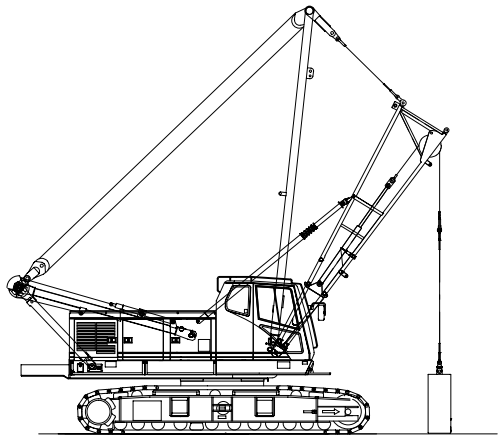
Base Section Cylinders		Side Frames Extended	Side Frames Retracted
Radius (ft)	Angle (deg)	(lb)	(lb)
15	55.0	26,500	26,500
16	50.9	26,500	26,500
17	46.4	26,500	26,100
18	41.6	26,500	23,900
19	36.0	26,500	22,000
20	29.5	26,500	20,300
21	20.6	26,500	18,700

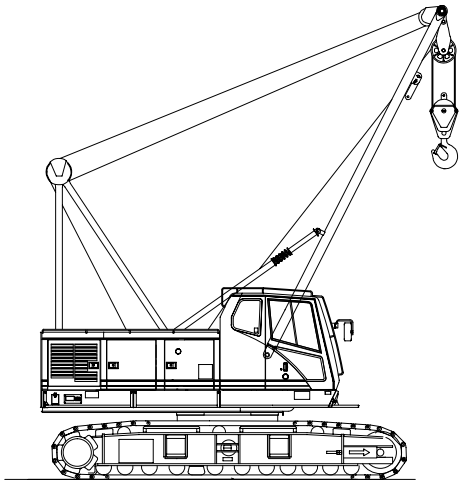
NOTES:
1. Rated capacities for 360° rotation.
2. Boom base section supported by make up pendants.
3. Lifting any load with one cylinder is prohibited. Rated capacities are for lifting loads with both cylinders.
4. Gantry can be either in the raised or lowered position when lifting loads with the cylinders 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 in the Crane Rating Manual.
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.





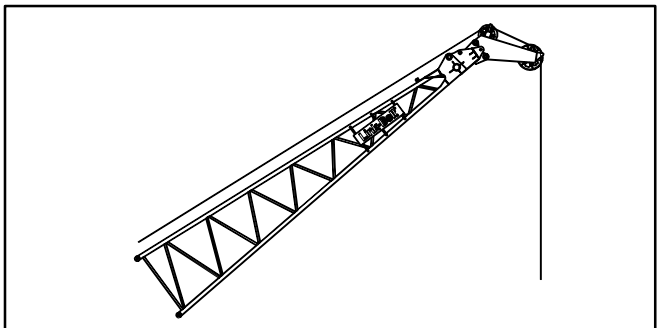
MAXIMUM ALLOWABLE CAPACITIES FOR 5’ TIP EXTENSION

LIFTING CAPACITY TO BE THE SMALLEST OF THE FOLLOWING VALUES:

1. 18,000 lb
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.



20’ Open Throat Boom With 5’ Tip Extension

DUTY CYCLE NOTES FOR TUBULAR BOOM

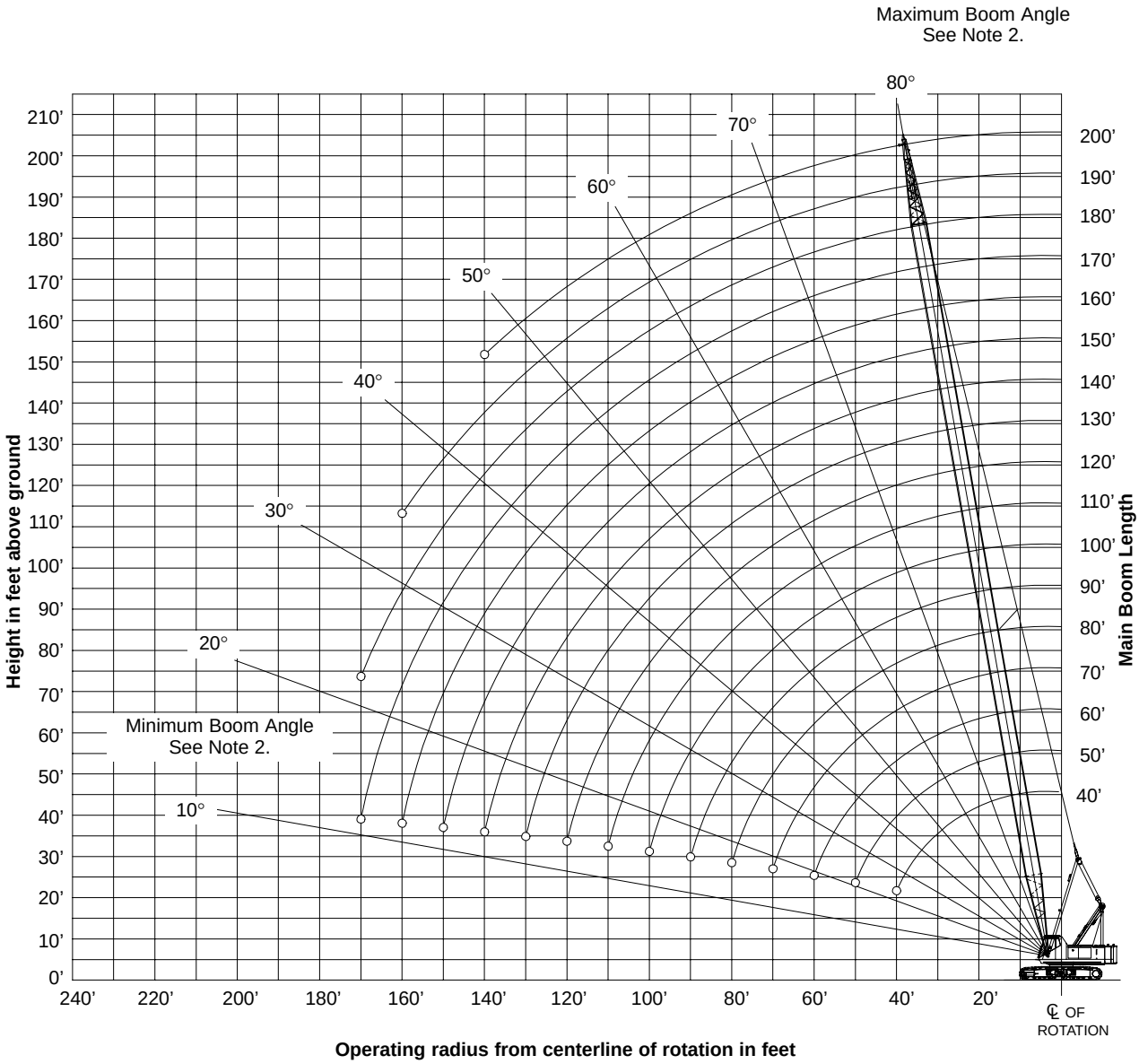
1. The capacities included in this chart are the maximum allowable, and are based on crane standing level on firm supporting surface under ideal job conditions.
2. Capacities are based on 75% of minimum tipping loads for dragline; 67.5% for clamshell.
3. Capacities are maximum recommended by PCSA Standard #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 crane 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

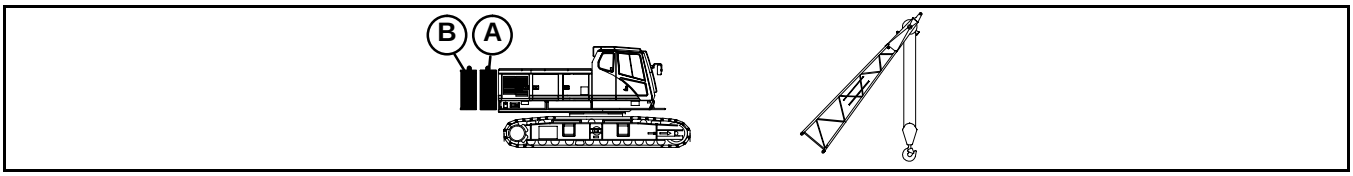
WORKING RANGE DIAGRAM

40’ TO 200’ OPEN THROAT BOOM



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)	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 – 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)	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	Side Frames Extended			Side Frames Retracted	
		AB CTWT (lb)	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 – 70 FT OPEN THROAT TUBE BOOM

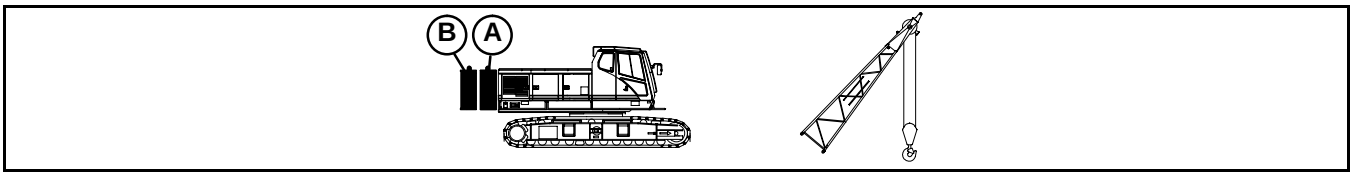
Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation				
			Side Frames Extended			Side Frames Retracted	
		AB CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
14	81.2	129,700	129,700	119,600	70,600	67,100	35,700
15	80.4	126,800	126,800	104,400	61,400	60,400	32,000
16	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 – 80 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)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
15	81.6	116,800	116,800	104,500	61,600	60,400	32,000
16	80.9	114,600	114,600	92,700	54,400	54,900	28,900
17	80.1	111,400	111,400	83,100	48,700	50,300	26,300
18	79.4	109,300	109,300	75,300	44,000	46,300	24,100
19	78.7	104,900	100,100	68,800	40,100	42,900	22,200
20	77.9	99,800	92,200	63,300	36,700	39,900	20,600
25	74.2	80,000	65,700	44,800	25,600	29,400	14,700
30	70.5	61,200	50,700	34,400	19,300	22,900	11,200
35	66.6	49,000	41,100	27,600	15,300	18,600	8,800
40	62.7	40,700	34,300	22,900	12,400	15,500	7,100
50	54.3	30,100	25,500	16,800	8,700	11,300	4,700
60	44.8	23,500	20,000	12,900	6,400	8,600	3,200
70	33.5	19,100	16,300	10,300	4,800	6,700	2,100
80	16.5	15,900	13,500	8,300	3,600	5,300	—

MAIN BOOM CAPACITIES – 90 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)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
16	81.9	104,700	104,700	92,700	54,500	54,900	28,900
17	81.2	102,800	102,800	83,200	48,700	50,200	26,300
18	80.6	101,200	101,200	75,300	44,000	46,200	24,100
19	79.9	99,600	99,600	68,800	40,100	42,800	22,200
20	79.3	97,700	92,200	63,300	36,700	39,800	20,500
25	76.0	79,800	65,700	44,800	25,600	29,300	14,700
30	72.7	61,200	50,700	34,300	19,300	22,800	11,100
35	69.4	49,000	41,000	27,500	15,200	18,500	8,700
40	65.9	40,700	34,200	22,800	12,300	15,400	6,900
50	58.7	30,000	25,400	16,700	8,600	11,200	4,600
60	50.9	23,500	19,900	12,800	6,300	8,500	3,100
70	42.2	19,000	16,200	10,200	4,700	6,600	2,000
80	31.5	15,800	13,400	8,300	3,500	5,200	—
90	15.5	13,400	11,300	6,800	2,600	4,100	—



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)	AB 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	PROHIBITED
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 – 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)	AB 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	PROHIBITED
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 – 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)	AB 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	PROHIBITED
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 – 130 FT OPEN THROAT TUBE BOOM

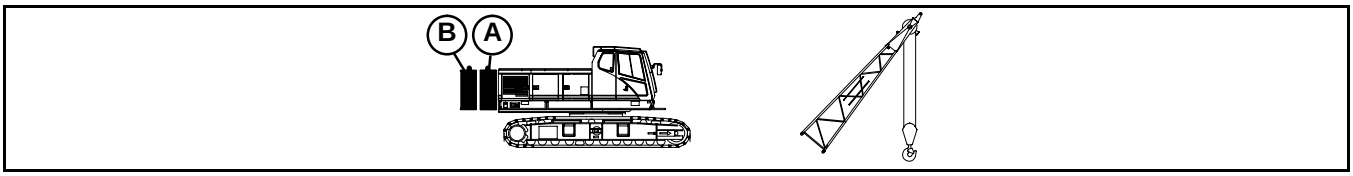
Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation				
			Side Frames Extended			Side Frames Retracted	
		AB CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
25	80.4	65,100	65,100	44,500	PROHIBITED	28,800	PROHIBITED
30	78.1	60,900	50,300	33,900		22,300	
35	75.9	48,600	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 – 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)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
25	81.1	60,000	60,000	44,400	PROHIBITED	28,700	PROHIBITED
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 – 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)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
25	81.7	55,100	55,100	44,300	PROHIBITED		
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)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
30	80.4	47,900	47,900	33,500	PROHIBITED		
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 – 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)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
30	81.0	42,400	42,400	33,400	PROHIBITED		
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 – 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)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
30	81.5	37,500	37,500	PROHIBITED			
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				

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)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
30	81.9	32,900	32,900	PROHIBITED			
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 – 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)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
35	80.9	28,600	28,600	PROHIBITED			
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				

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Link-Belt
CONSTRUCTION EQUIPMENT

Jib Capacities

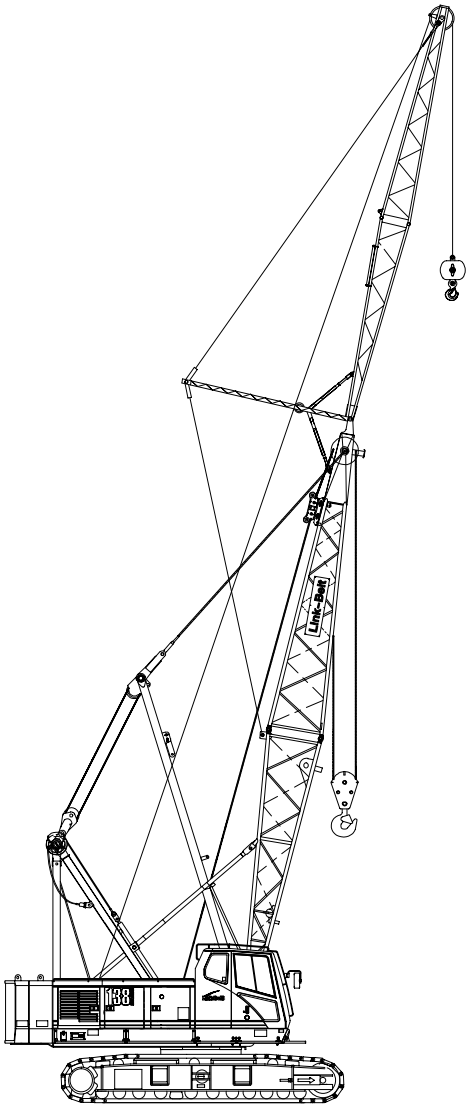
Lattice Boom Crawler Crane

138 HYLAB 5

80–ton *(72.6 metric ton)*

Tube Boom + Jib

- 40’–190’ *(12.19 – 57.91 m)* Tube 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



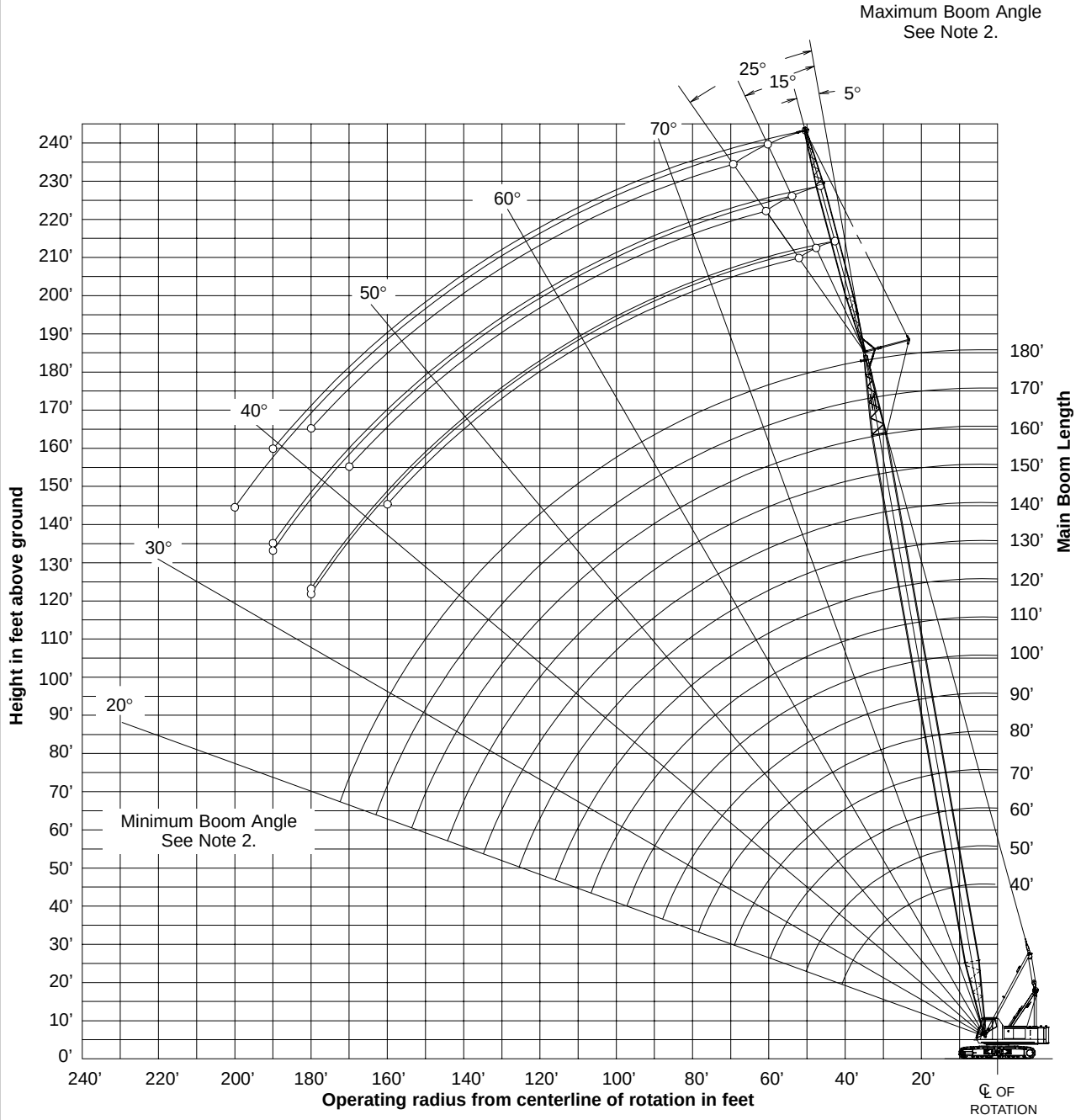
CAUTION: This material is supplied for reference use only. Operator must refer to in–cab Crane Rating Manual to determine allowable crane lifting capacities and operating procedures.

TUBULAR JIB NOTES FOR OPEN THROAT BOOM

1. Capacities are for a 138 HYLAB 5 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 the Crane Rating Manual. Apply the appropriate lift capacity chart based on the working area and the specific operating conditions.
3. Over–end blocked capacities can be lifted over either end with the crane standing level on a firm supporting surface. Adequate blocking must be placed under both side frame sprockets/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” Tube 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



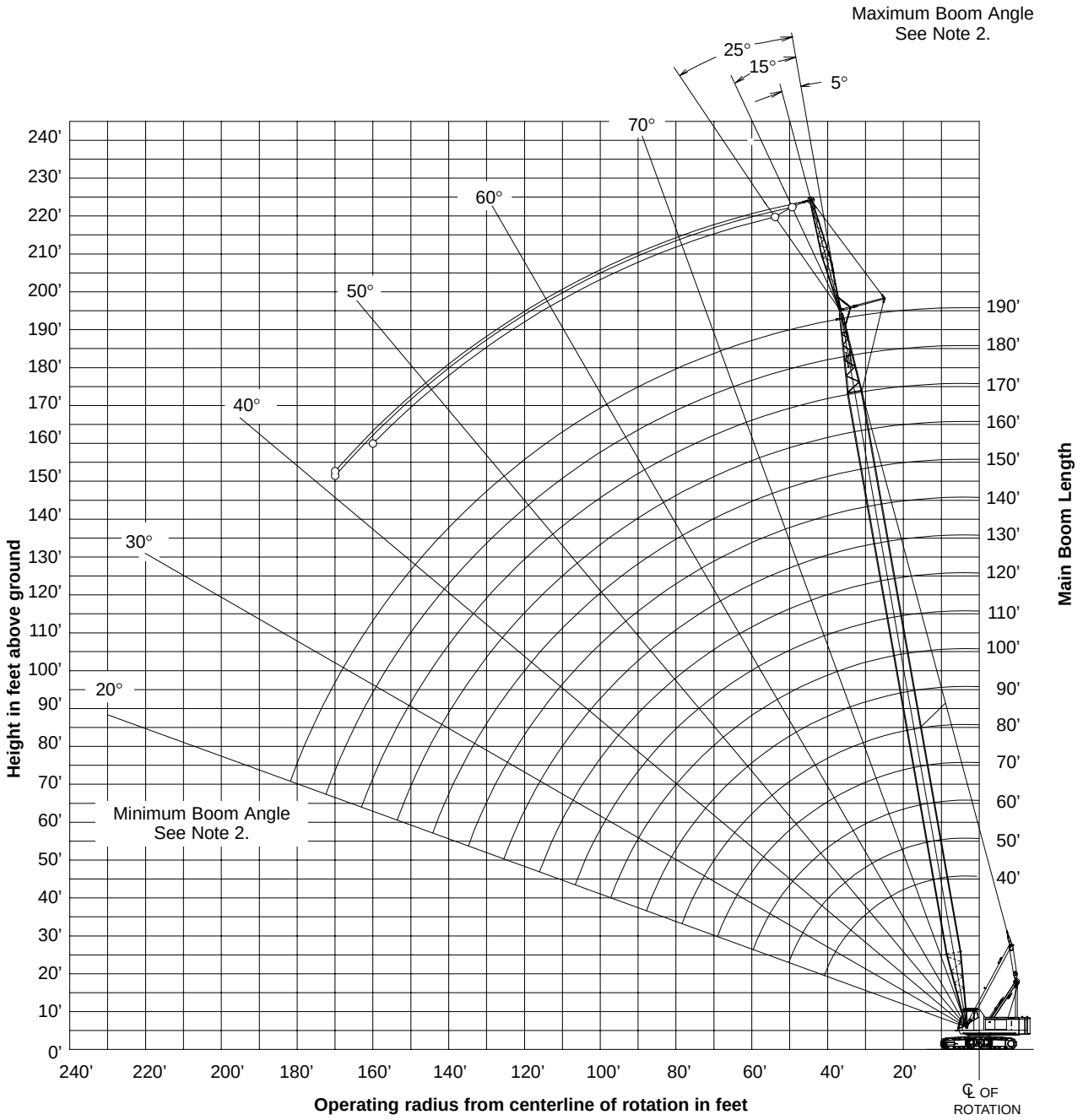
Notes:

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

138 HYLAB 5 - 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 the Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)
			5 Degress				15 Degrees				25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	
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

138 HYLAB 5 - 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 the Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)
			5 Degress				15 Degrees				25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	
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

138 HYLAB 5 - 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 the Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)
			5 Degress				15 Degrees				25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	
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 *	79.9	103.4	13,400 *	13,400 *	40
60	45	50	66.2	101.8	18,100 *	18,100 *	70.2	101.0	15,500 *	15,500 *	74.0	99.0	11,600 *	11,600 *	50
60	45	60	60.1	96.1	16,700 *	16,700 *	64.1	95.4	13,300 *	13,300 *	67.7	93.3	10,200 *	10,200 *	60
60	45	70	53.6	89.0	14,200 *	14,200 *	57.4	88.2	11,600 *	11,600 *	60.9	85.9	9,200 *	9,200 *	70
60	45	80	46.4	79.9	12,400 *	12,400 *	50.1	79.0	10,400 *	10,400 *	53.4	76.4	8,400 *	8,400 *	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 *	79.2	115.3	9,100 *	9,100 *	50
60	60	60	64.8	113.6	13,400 *	13,400 *	69.5	112.9	10,500 *	10,600 *	73.9	110.5	8,000 *	8,000 *	60
60	60	70	59.3	107.7	11,300 *	11,300 *	64.0	106.9	9,200 *	9,200 *	68.3	104.4	7,100 *	7,100 *	70
60	60	80	53.5	100.4	9,800 *	9,800 *	58.1	99.5	8,100 *	8,100 *	62.3	96.8	6,400 *	6,400 *	80
60	60	90	47.2	91.3	8,700 *	8,700 *	51.7	90.4	7,300 *	7,300 *	55.7	87.3	5,800 *	5,800 *	90
60	60	100	40.1	79.8	7,800 *	7,800 *	44.4	78.7	6,600 *	6,600 *	48.1	75.2	5,400 *	5,400 *	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 *	78.8	101.0	20,100 *	20,100 *	35
70	30	40	70.4	101.2	24,000 *	24,000 *	73.2	100.6	24,000 *	24,000 *	75.8	99.1	18,600 *	18,600 *	40
70	30	50	64.3	96.7	24,000 *	24,000 *	67.0	96.1	21,900 *	21,900 *	69.5	94.6	17,100 *	17,100 *	50
70	30	60	57.7	90.8	23,500	19,900	60.4	90.2	18,900 *	18,900 *	62.8	88.5	15,500 *	15,500 *	60
70	30	70	50.7	83.2	19,000	16,200	53.3	82.6	17,300 *	16,400	55.5	80.7	14,200 *	14,200 *	70
70	30	80	42.8	73.3	15,900	13,500	45.3	72.6	16,000	13,600	47.3	70.4	13,300 *	13,300 *	80
70	30	90	33.4	59.8	13,500	11,400	35.7	58.9	13,600	11,500					90

138 HYLAB 5 - 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 the Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)
			5 Degress				15 Degrees				25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	
70	45	30	78.7	119.6	24,000 *	24,000 *									30
70	45	35	76.2	118.3	24,000 *	24,000 *	79.9	117.5	19,300 *	19,300 *					35
70	45	40	73.7	116.7	24,000 *	24,000 *	77.3	115.9	17,500 *	17,500 *					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 *					100
70	60	35	78.4	133.9	21,900 *	21,900 *									35
70	60	40	76.1	132.5	19,400 *	19,400 *									40
70	60	50	71.6	129.1	17,300 *	17,300 *	75.9	128.3	12,900 *	12,900 *					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 *									120
80	30	30	77.6	114.8	24,000 *	24,000 *									30
80	30	35	74.9	113.4	24,000 *	24,000 *	77.5	112.8	24,000 *	24,000 *	79.9	111.4	20,600 *	20,600 *	35
80	30	40	72.2	111.8	24,000 *	24,000 *	74.8	111.2	24,000 *	24,000 *	77.1	109.7	19,200 *	19,200 *	40
80	30	50	66.7	107.8	24,000 *	24,000 *	69.2	107.2	23,200 *	23,200 *	71.5	105.6	17,300 *	17,300 *	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

138 HYLAB 5 - 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 the Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)
			5 Degress				15 Degrees				25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	
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

138 HYLAB 5 - 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 the Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)
			5 Degress				15 Degrees				25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	
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

138 HYLAB 5 - 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 the Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)
			5 Degress				15 Degrees				25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	
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 *	78.7	141.8	12,900 *	12,900 *	50
100	45	60	68.9	141.1	19,700 *	19,500	71.7	140.2	16,200 *	16,200 *	74.4	137.9	11,600 *	11,600 *	60
100	45	70	64.6	136.4	17,100 *	15,900	67.4	135.5	14,300 *	14,300 *	70.0	133.1	10,600 *	10,600 *	70
100	45	80	60.1	130.8	15,600	13,100	62.9	129.9	12,900 *	12,900 *	65.5	127.3	9,800 *	9,800 *	80
100	45	90	55.4	124.0	13,100	11,000	58.2	123.1	11,700 *	11,200	60.6	120.4	9,100 *	9,100 *	90
100	45	100	50.4	116.0	11,200	9,300	53.1	115.0	10,800 *	9,500	55.5	112.1	8,500 *	8,500 *	100
100	45	110	45.0	106.3	9,700	8,000	47.7	105.2	9,800	8,200	49.9	102.1	8,100 *	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 *	78.3	153.7	8,800 *	8,800 *	60
100	60	70	67.5	153.2	14,700 *	14,700 *	71.0	152.2	11,000 *	11,000 *	74.3	149.4	8,000 *	8,000 *	70
100	60	80	63.6	148.2	12,800 *	12,800 *	67.1	147.2	9,800 *	9,800 *	70.3	144.3	7,300 *	7,300 *	80
100	60	90	59.5	142.4	11,300 *	11,100	62.9	141.3	8,900 *	8,900 *	66.1	138.3	6,700 *	6,700 *	90
100	60	100	55.2	135.4	10,200 *	9,500	58.6	134.4	8,100 *	8,100 *	61.6	131.1	6,300 *	6,300 *	100
100	60	110	50.7	127.3	9,200 *	8,100	54.0	126.2	7,500 *	7,500 *	56.9	122.8	5,900 *	5,900 *	110
100	60	120	45.8	117.8	8,400 *	7,000	49.1	116.5	7,000 *	7,000 *	51.8	112.8	5,600 *	5,600 *	120
100	60	130	40.4	106.3	7,500	6,100	43.6	104.9	6,500 *	6,300	46.2	100.8	5,300 *	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

138 HYLAB 5 - 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 the Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)
			5 Degress				15 Degrees				25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	
110	30	40	76.1	143.2	24,000 *	24,000 *	78.1	142.5	24,000 *	24,000 *					40
110	30	50	71.9	140.1	24,000 *	24,000 *	73.9	139.5	24,000 *	24,000 *	75.7	137.9	18,500 *	18,500 *	50
110	30	60	67.5	136.2	22,700	19,100	69.5	135.6	22,900 *	19,500	71.3	133.9	17,300 *	17,300 *	60
110	30	70	63.1	131.3	18,200	15,500	65.0	130.7	18,500	15,700	66.7	129.0	16,300 *	16,000	70
110	30	80	58.4	125.5	15,100	12,700	60.3	124.9	15,400	12,900	62.0	123.0	15,200 *	13,100	80
110	30	90	53.5	118.5	12,700	10,600	55.3	117.8	12,900	10,800	56.9	115.8	13,000	10,900	90
110	30	100	48.2	110.0	10,800	8,900	50.0	109.3	10,900	9,100	51.5	107.1	11,100	9,200	100
110	30	110	42.4	99.7	9,300	7,600	44.2	98.9	9,400	7,700	45.5	96.5	9,500	7,800	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

138 HYLAB 5 - 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 the Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)
			5 Degress				15 Degrees				25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	
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 *	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 *	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 *									35
120	30	40	77.0	153.5	24,000 *	24,000 *	78.9	152.9	24,000 *	24,000 *					40
120	30	50	73.1	150.6	24,000 *	24,000 *	75.0	150.0	24,000 *	24,000 *	76.7	148.4	18,900 *	18,900 *	50
120	30	60	69.1	147.0	22,500	18,900	70.9	146.4	22,600 *	19,300	72.6	144.7	17,200 *	17,200 *	60
120	30	70	65.0	142.6	18,000	15,300	66.8	141.9	18,300	15,600	68.4	140.2	16,700 *	15,800	70
120	30	80	60.7	137.2	14,900	12,500	62.5	136.6	15,200	12,700	64.1	134.8	15,400	13,000	80
120	30	90	56.2	130.8	12,500	10,400	58.0	130.2	12,700	10,600	59.5	128.2	12,900	10,800	90
120	30	100	51.5	123.3	10,600	8,700	53.2	122.6	10,800	8,900	54.7	120.5	10,900	9,000	100
120	30	110	46.4	114.3	9,100	7,400	48.1	113.5	9,200	7,500	49.5	111.3	9,300	7,600	110
120	30	120	40.9	103.4	7,800	6,300	42.5	102.6	7,900	6,400					120
120	30	130	34.6	90.0	6,700	5,400	36.1	89.0	6,800	5,500					130
120	30	140	27.0	72.6	5,800	4,600									140
120	45	40	78.7	168.6	24,000 *	24,000 *									40
120	45	50	75.1	165.9	22,800 *	22,800 *	77.7	165.0	17,600 *	17,600 *					50
120	45	60	71.5	162.6	19,800 *	19,100	74.1	161.7	17,200 *	17,200 *	76.4	159.3	12,100 *	12,100 *	60
120	45	70	67.8	158.6	17,600 *	15,500	70.3	157.6	15,500 *	15,500 *	72.7	155.2	11,100 *	11,200 *	70
120	45	80	64.0	153.8	15,200	12,700	66.5	152.8	14,000 *	13,100	68.8	150.3	10,300 *	10,300 *	80
120	45	90	60.1	148.1	12,700	10,600	62.6	147.1	12,800 *	10,900	64.8	144.5	9,600 *	9,600 *	90
120	45	100	56.0	141.5	10,800	8,900	58.4	140.5	11,000	9,200	60.6	137.7	9,000 *	9,000 *	100
120	45	110	51.7	133.7	9,200	7,600	54.1	132.7	9,500	7,800	56.1	129.8	8,500 *	8,000	110
120	45	120	47.0	124.7	8,000	6,500	49.4	123.6	8,200	6,700	51.3	120.4	8,100 *	6,800	120
120	45	130	42.0	114.0	6,900	5,600	44.3	112.7	7,100	5,700					130
120	45	140	36.5	101.1	6,000	4,800	38.6	99.7	6,100	4,900					140
120	45	150	30.0	84.9	5,200	4,100									150

138 HYLAB 5 - 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 the Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)
			5 Degress				15 Degrees				25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	
120	60	50	76.8	181.6	19,300 *	19,300 *									50
120	60	60	73.5	178.6	17,200 *	17,200 *	76.7	177.5	13,200 *	13,200 *	79.6	174.7	9,100 *	9,100 *	60
120	60	70	70.2	174.9	15,500 *	15,500 *	73.3	173.9	11,700 *	11,700 *	76.2	171.0	8,300 *	8,300 *	70
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 *	7,700 *	80
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 *	7,100 *	90
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 *	6,600 *	100
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 *	110
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
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 *	130
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 *									35
130	30	40	77.8	163.8	24,000 *	24,000 *	79.6	163.1	24,000 *	24,000 *					40
130	30	50	74.2	161.1	24,000 *	24,000 *	75.9	160.5	24,000 *	24,000 *	77.6	158.8	19,300 *	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 *	60
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 *									40
130	45	50	76.0	176.3	22,700 *	22,700 *	78.4	175.4	18,000 *	18,000 *					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 *	12,400 *	60
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 *	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 *	80

138 HYLAB 5 - 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 the Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)
			5 Degress				15 Degrees				25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	
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 *	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	100
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	110
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 *									50
130	60	60	74.4	189.1	17,200 *	17,200 *	77.4	188.0	13,500 *	13,600 *					60
130	60	70	71.2	185.7	15,500 *	15,400	74.2	184.5	12,100 *	12,100 *	77.0	181.6	8,500 *	8,500 *	70
130	60	80	68.0	181.6	13,800 *	12,600	71.0	180.5	10,900 *	10,900 *	73.7	177.5	7,800 *	7,800 *	80
130	60	90	64.7	176.9	12,500 *	10,500	67.6	175.7	9,900 *	9,900 *	70.3	172.6	7,300 *	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 *	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 *	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 *	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 *									40
140	30	50	75.1	171.5	24,000 *	24,000 *	76.8	170.9	24,000 *	24,000 *	78.3	169.2	19,600 *	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 *	60
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	70
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

138 HYLAB 5 - 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 the Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)
			5 Degress				15 Degrees				25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	
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

138 HYLAB 5 - 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 the Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)
			5 Degress				15 Degrees				25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	
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

138 HYLAB 5 - 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 the Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)
			5 Degress				15 Degrees				25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	
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

138 HYLAB 5 - 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 the Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)
			5 Degress				15 Degrees				25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	
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

138 HYLAB 5 - 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 the Crane Rating Manual before operating the crane.

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

138 HYLAB 5 - 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 the Crane Rating Manual before operating the crane.

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

138 HYLAB 5 - 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 the Crane Rating Manual before operating the crane.

Boom Length (ft)	Jib Length (ft)	Jib Load Radius (ft)	Jib Angle to Boom												Jib Load Radius (ft)
			5 Degress				15 Degrees				25 Degrees				
			Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	Boom Angle (deg)	Jib Point Height (ft)	Over End Jib Capacity (lb)	360° Jib Capacity (lb)	
180	45	60	76.5	225.4	15,300 *	15,300 *	78.4	224.3	13,800 *	13,800 *					60
180	45	70	73.9	222.5	14,600 *	14,300	75.8	221.5	13,300 *	13,300 *	77.5	218.9	11,300 *	11,300 *	70
180	45	80	71.2	219.2	14,000 *	11,500	73.1	218.1	12,700 *	12,000	74.8	215.5	10,800 *	10,800 *	80
180	45	90	68.5	215.3	11,500	9,400	70.4	214.2	11,900 *	9,800	72.1	211.6	10,500 *	10,200	90
180	45	100	65.8	210.8	9,600	7,700	67.6	209.7	10,000	8,100	69.3	207.0	10,100 *	8,400	100
180	45	110	63.0	205.8	8,000	6,300	64.8	204.7	8,400	6,700	66.4	201.9	8,700	7,000	110
180	45	120	60.1	200.1	6,700	5,200	61.9	199.0	7,000	5,500	63.4	196.1	7,300	5,800	120
180	45	130	57.1	193.7	5,700	4,300	58.9	192.6	5,900	4,600	60.4	189.6	6,200	4,800	130
180	45	140	54.0	186.5	4,800	3,500	55.7	185.4	5,000	3,700	57.2	182.3	5,200	3,900	140
180	45	150	50.7	178.5	4,000	2,800	52.5	177.3	4,200	3,000	53.9	174.1	4,400	3,200	150
180	45	160	47.4	169.4	3,300	2,200	49.1	168.2	3,500	2,400	50.4	164.8	3,600	2,600	160
180	45	170	43.8	159.3	2,700	1,700	45.4	157.9	2,900	1,900	46.7	154.4	3,000	2,000	170
180	45	180	39.9	147.6	2,200		41.5	146.2	2,300						180
180	45	190	35.7	134.2	1,700		37.3	132.7	1,900						190
180	60	60	77.7	240.9	13,400 *	13,400 *									60
180	60	70	75.2	238.3	12,900 *	12,900 *	77.6	237.0	11,200 *	11,200 *	79.8	233.9	9,000 *	9,000 *	70
180	60	80	72.8	235.1	12,300 *	11,700	75.1	233.9	10,800 *	10,800 *	77.3	230.7	8,500 *	8,500 *	80
180	60	90	70.2	231.5	11,300 *	9,500	72.6	230.3	10,200 *	10,100	74.7	227.1	7,900 *	7,900 *	90
180	60	100	67.7	227.4	9,700	7,800	70.0	226.2	9,400 *	8,300	72.1	222.9	7,500 *	7,500 *	100
180	60	110	65.1	222.7	8,100	6,500	67.4	221.5	8,600	6,900	69.5	218.1	7,100 *	7,100 *	110
180	60	120	62.4	217.5	6,900	5,300	64.7	216.2	7,300	5,700	66.7	212.8	6,700 *	6,100	120
180	60	130	59.7	211.7	5,800	4,400	61.9	210.4	6,100	4,800	63.9	206.8	6,400 *	5,100	130
180	60	140	56.9	205.1	4,900	3,600	59.1	203.8	5,200	3,900	61.1	200.2	5,500	4,200	140
180	60	150	53.9	197.9	4,100	2,900	56.1	196.5	4,400	3,200	58.1	192.7	4,600	3,400	150
180	60	160	50.9	189.8	3,400	2,300	53.1	188.4	3,700	2,600	54.9	184.4	3,900	2,800	160
180	60	170	47.7	180.8	2,800	1,800	49.9	179.3	3,000	2,000	51.6	175.1	3,200	2,200	170
180	60	180	44.4	170.7	2,300		46.5	169.1	2,500	1,500	48.2	164.7	2,700	1,700	180
180	60	190	40.8	159.3	1,800		42.8	157.6	2,000						190
180	60	200					38.9	144.4	1,600						200

138 HYLAB 5 - 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 the Crane Rating Manual before operating the crane.

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

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