

Making a great crane even better...

138 HYLAB⁵

Bullet-proof reliability, simple mobility, super versatility, big capacities & pin-point control ... the 138 is now even more impressive with the HYLAB cab, SML-10 load moment indicator and remote mounted oil cooler.



Big, new HYLAB cab

- Totally new cab offers substantially more room and is designed to be highly functional and very comfortable
- 18,000 BTU air-conditioning
- 19,000 BTU hot water heating
- Six-way adjustable seat
- Easy-to-read backlit gauges
- Adjustable armrest console with pilot-operated single-axis controls for all hoisting functions
- Full function SML-10 load moment indicator monitored by load sensing via boom hoist mounted load cell
- Freefall standard

Heavy duty power meets the need for your most demanding jobs

- 182 hp (135 kW) (tier 2) Mitsubishi diesel engine
- Six pump main hydraulic package provides smooth, uninterrupted performance
- Matched front & rear drum performance with 32,377 lbs (14 686 kg) line pull and line speed up to 442 ft/min (135 m/min)
- Remote hydraulic cooler with thermostatically controlled, hydraulically operated fan
- 8' 11" (2.72 m) retracted gauge to get into tight job sites, 14' (4.26 m) extended gauge for max capacities

- Optional third drum offers 15,041 lbs (6 822 kg) line pull and 245 ft/min (75 m/min) line speed

Transportability and assembly

- Simple and fast counterweight removal
- Remove counterweights, retract the crawlers, store the catwalks, pin the live mast and gantry and be ready to load out. Reverse the process and be ready to stab boom in 13 minutes.
- Transports in three loads with full boom and jib

Big, fast and strong with greater reach and capacities

- Outpicks the competition virtually everywhere on the chart.
- Blocked over-end capacities, challenging higher rated capacity cranes
- Meets OSHA requirements for anti-two block and automatic brake systems on cranes used to handle personnel
- Outreaching the nearest competitor, the 138 H5 boasts a maximum tip height of 241' (73.50 m) with the tube boom and jib used in combination.



138 HYLAB 5 attachments ... versatile & strong

Tubular boom

- 40' - 200' (12.19 - 60.96 m) tubular boom
- Maximum boom & jib combination: 180' + 60' (54.86 + 18.29 m)
- Maximum tip height: 241' (79.0 m)
- Maximum 360° working radius: 200' (60.96 m)
- 15,800 lbs (7 167 kg) maximum clamshell / dragline / duty cycle capacity
- 70' (21.34 m) maximum duty cycle boom
- 145,149 lbs (65 838 kg) operating weight

Angle boom

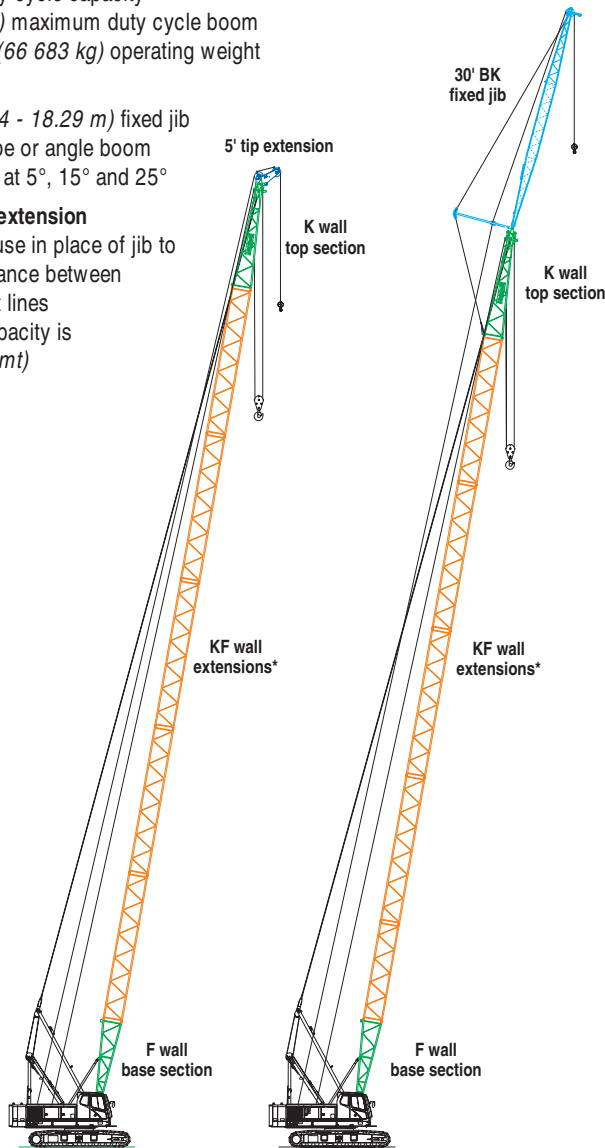
- 40' - 150' (12.19 - 45.72 m) tubular boom
- Maximum boom & jib combination: 140' + 60' (42.67 + 18.29 m)
- Maximum tip height: 203' (61.87 m)
- Maximum 360° working radius: 180' (54.86 m)
- 22,700 lbs (10 296 kg) maximum clamshell / dragline / duty cycle capacity
- 80' (24.38 m) maximum duty cycle boom
- 147,011 lbs (66 683 kg) operating weight

Fixed jib

- 30' - 60' (9.14 - 18.29 m) fixed jib
- Used with tube or angle boom
- Offset angles at 5°, 15° and 25°

Auxiliary 5' tip extension

- Designed to use in place of jib to provide clearance between working hoist lines
- Maximum capacity is 9 tons (8.16 mt)



40' - 200' tube
(12.19 - 60.96 m)

40' - 180' tube + 30' - 60' jib
(12.19 - 54.86 m) + (9.14 - 18.29 m)

40' - 150' angle
(12.19 - 45.72 m)

40' - 140' angle + 30' - 60' jib
(12.19 - 42.67 m) + (9.14 - 18.29 m)

*Tube boom. Angle boom extensions can also be used in this configuration.



Link-Belt

C R A N E S

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

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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

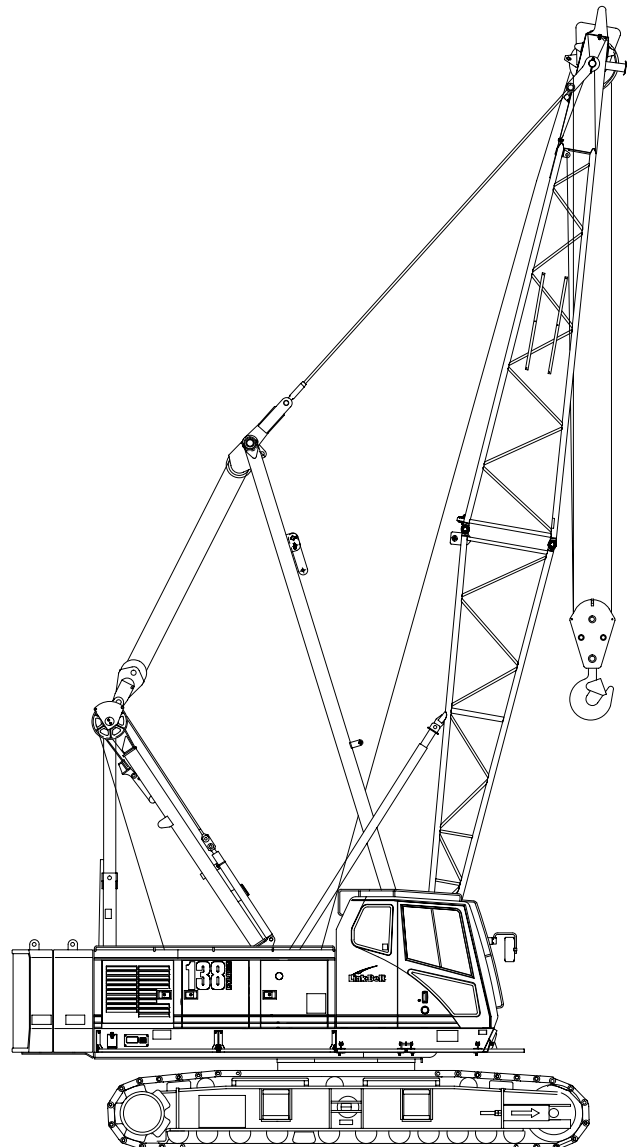
5' (1.52m) Tip Extension

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 "O" 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.

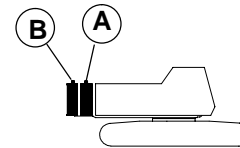
3. For recommended reeving, parts of line, wire rope type, and wire rope inspection, see Wire Rope Capacity chart, Operator's Manual, and Parts Manual.
4. Load ratings in the Crane Rating Manual are based on freely suspended loads and make no allowances for such factors as the effect of the wind, ground 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"		Notes
	Type "DB"	Type "RB"	Type "ZB"	Type "WB"	
1	22,700	17,520	11,000	13,650	Capacities shown are in pounds and working loads must not exceed the ratings on the capacity charts in the Crane Rating Manual. Study Operator's Manual for wire rope inspection procedures and single part of line applications.
2	45,400	35,040	22,000	27,310	
3	68,100	52,560	33,000	40,970	
4	90,800	70,080	44,000	54,620	
5	113,500	87,600	55,000	68,280	
6	136,200	105,120	66,000	81,940	
7	158,900	122,640	77,000	95,600	
8	181,600	140,160	88,000	109,250	
LBCE Type	Description				
DB	6 x 26 (6 x 19 Class) – Warrington Seal – Extra Improved Plow Steel – 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				

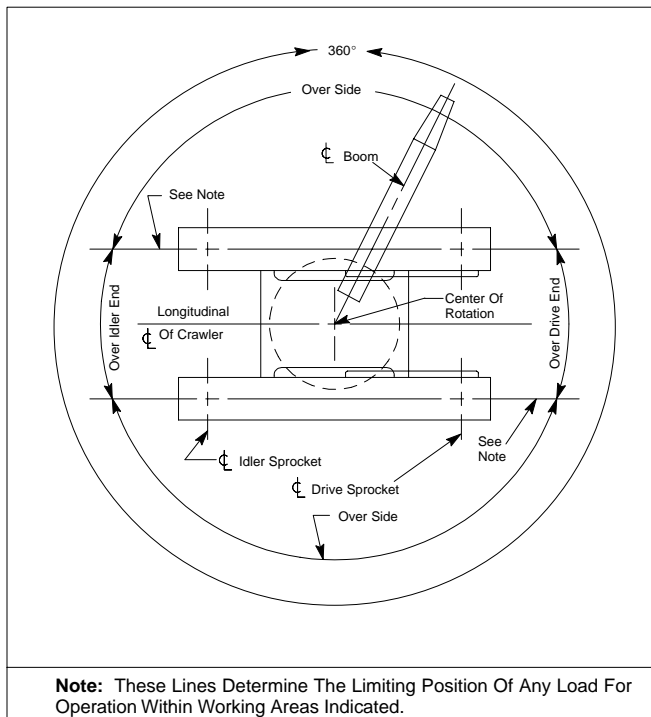


LIFTOFF CAPABILITIES

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

WORKING AREAS



NOTES:

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

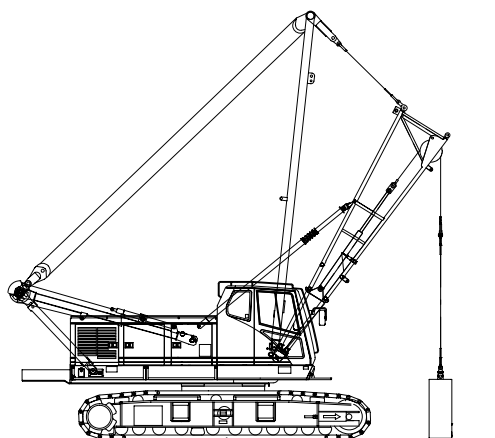
Tip Extension	Capacity Deduction (lb)
5' Tip Extension – Not Reeved	900
5' Tip Extension – With 15T Hook Ball	2,200

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

Base Section Cylinders		Side Frames Extended (lb)	Side Frames Retracted (lb)
Radius (ft)	Angle (deg)		
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.

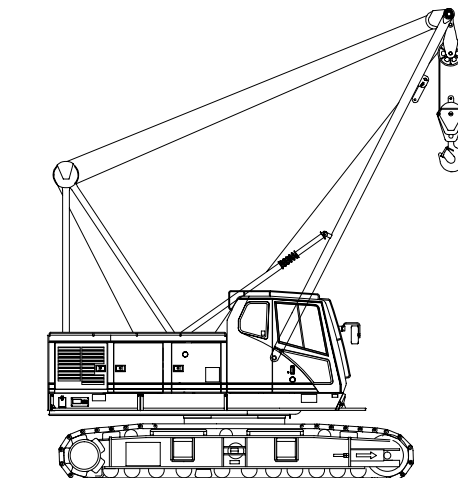


LIVE MAST LIFTING CAPACITIES (WITHOUT COUNTERWEIGHT INSTALLED)

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

NOTES:

1. Refer to the Operator's Manual.
2. Live mast backstops must be in position and operative.
3. Use rear hoist drum only. Reeve hoist line to drum over live mast cross member.
4. Reeve hoist rope with three (3) parts of 7/8" diameter wire rope.
5. The crane shall be leveled on a firm supporting surface.
6. Capacities are based on 75% stability.
7. See Crane Assembly Component Weights chart for weight of components for crane assembly 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.



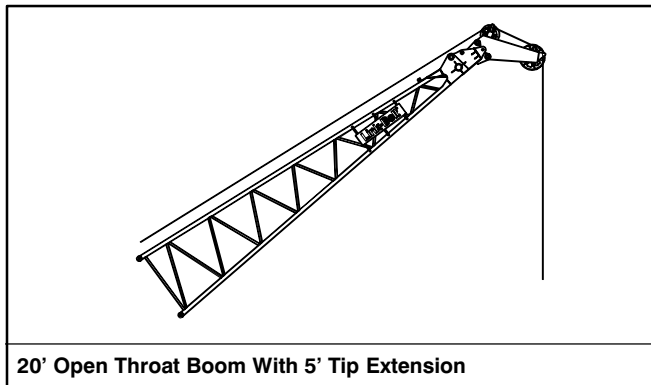
MAXIMUM ALLOWABLE CAPACITIES FOR 5' TIP EXTENSION

LIFTING CAPACITY TO BE THE SMALLEST OF THE FOLLOWING VALUES:

- 18,000 lb
- 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:

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



DUTY CYCLE NOTES FOR TUBULAR BOOM

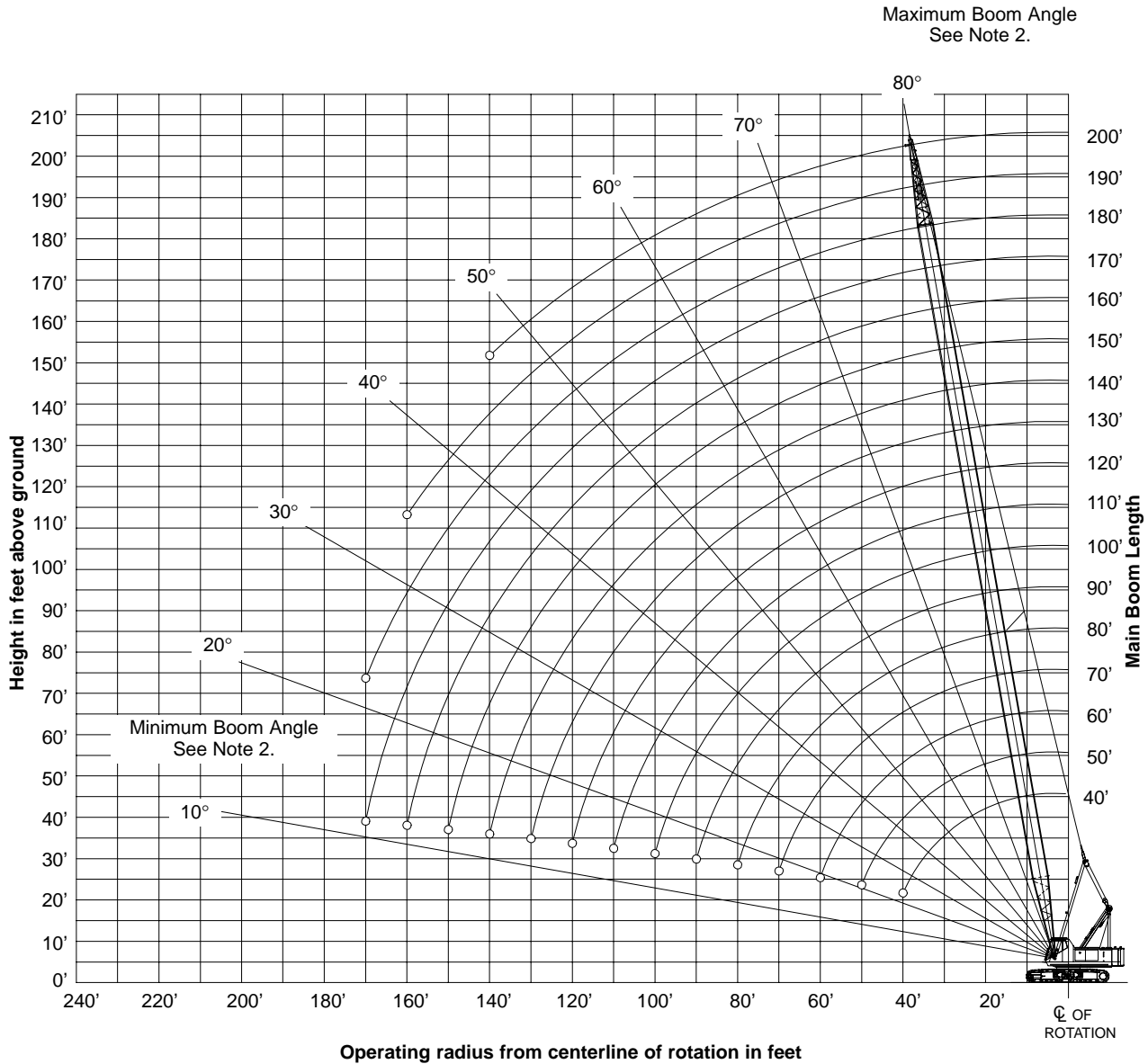
- The capacities included in this chart are the maximum allowable, and are based on crane standing level on firm supporting surface under ideal job conditions.
- Capacities are based on 75% of minimum tipping loads for dragline; 67.5% for clamshell.
- Capacities are maximum recommended by PCSA Standard #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.
- Weight of bucket plus load must not exceed these capacities.
- Dragline operation is not recommended with boom angles less than 35°.
- Boom length for dragline/clamshell attachment operation should not exceed 70'.
- Retractable high gantry must be fixed in raised position for all capacities on this chart.
- 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

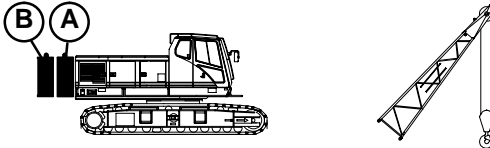
WORKING RANGE DIAGRAM

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

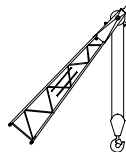
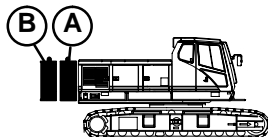
MAIN BOOM CAPACITIES – 70 FT OPEN THROAT TUBE BOOM							
Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation				
			Side Frames Extended			Side Frames Retracted	
			AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
14	81.2	129,700	129,700	119,600	70,600	67,100	35,700
15	80.4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

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

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

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

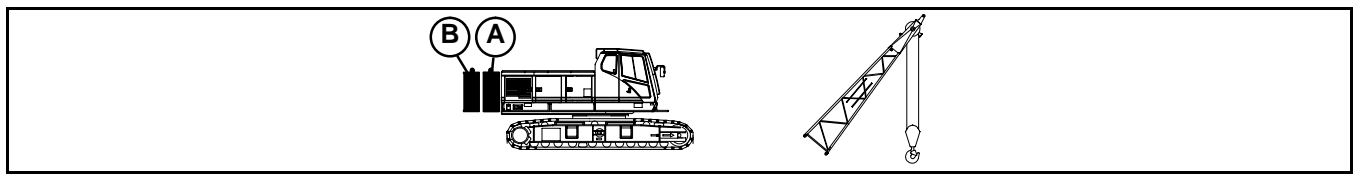
MAIN BOOM CAPACITIES – 130 FT OPEN THROAT TUBE BOOM								
Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation					PROHIBITED
			Side Frames Extended				Side Frames Retracted	
			AB CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	
25	80.4	65,100	65,100	44,500	—	28,800		
30	78.1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

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

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

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

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



MAIN BOOM CAPACITIES 160 FT OPEN THROAT TUBE BOOM							
Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation				
			Side Frames Extended			Side Frames Retracted	
			AB CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A 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 – 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)
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 – 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)
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 – 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)
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				

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)
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				

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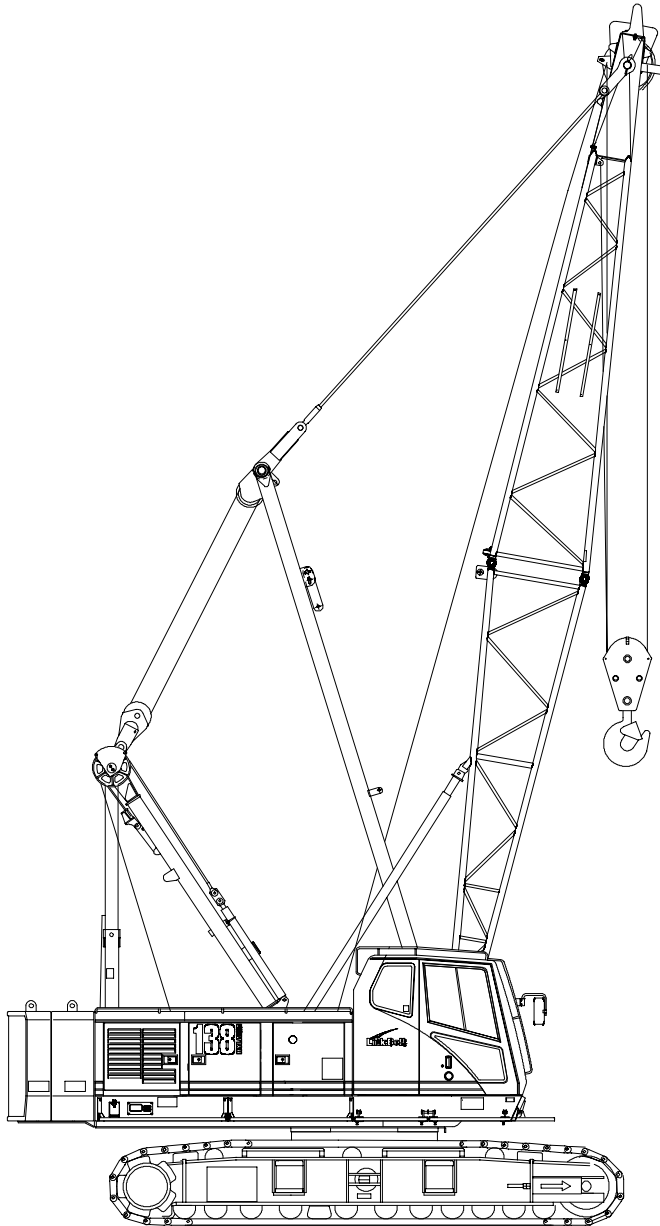
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Specifications

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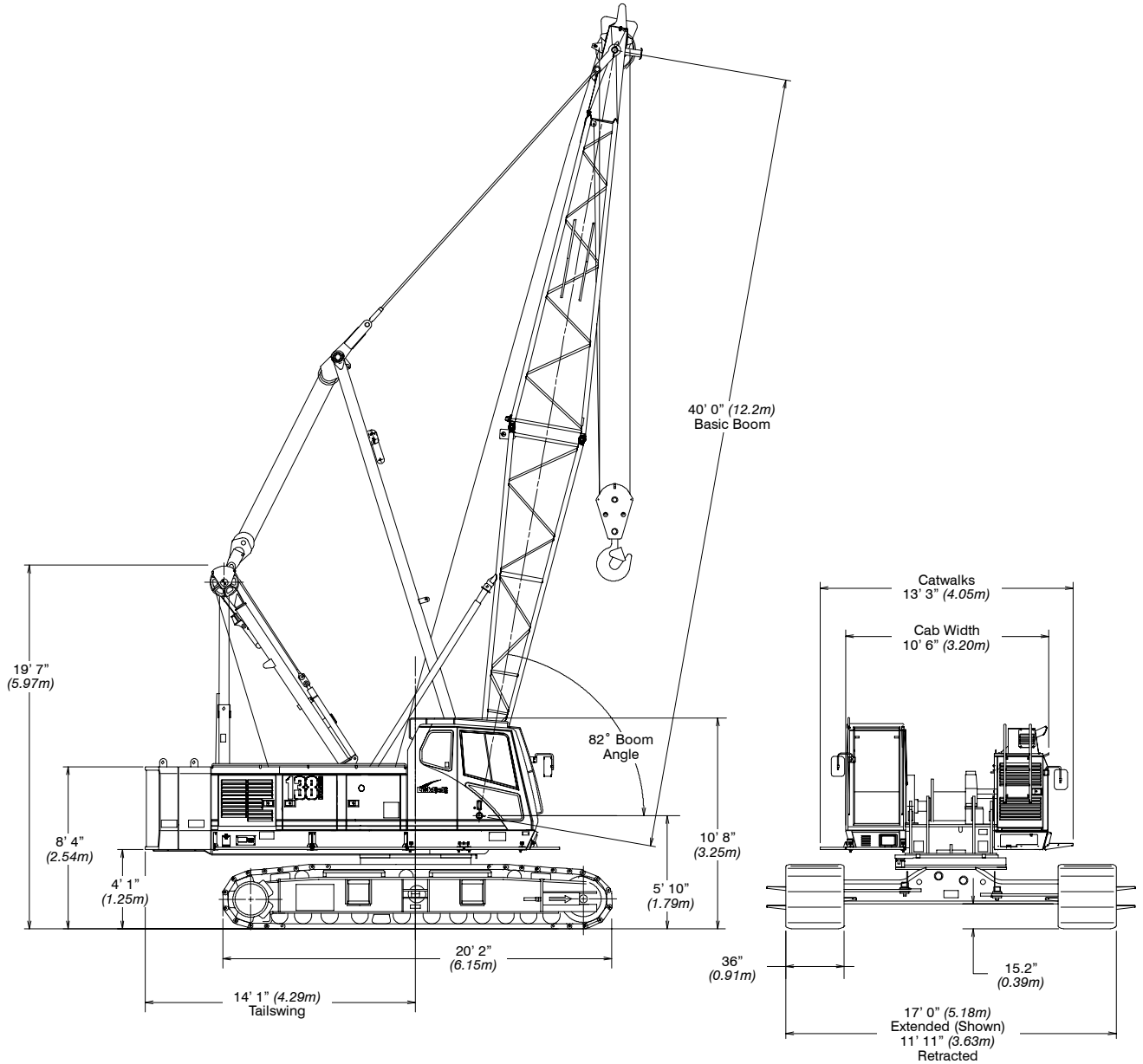
HYLABCS

Crawler Crane
80 Ton (72.6 metric ton)

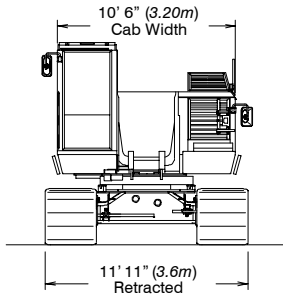


CAUTION: This material is supplied for reference use only. Operator must refer to in-cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly and operating procedures.

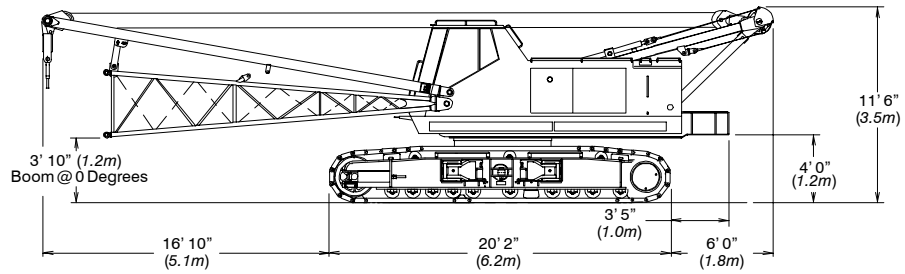
General Dimensions	English	Metric
Tailswing of counterweight "A"	13' 3"	4.04m
Maximum live mast working height	30' 9"	9.4m
Boom foot pin diameter	3.5"	8.9cm
Distance between inside of boom foot lugs	27"	0.7m



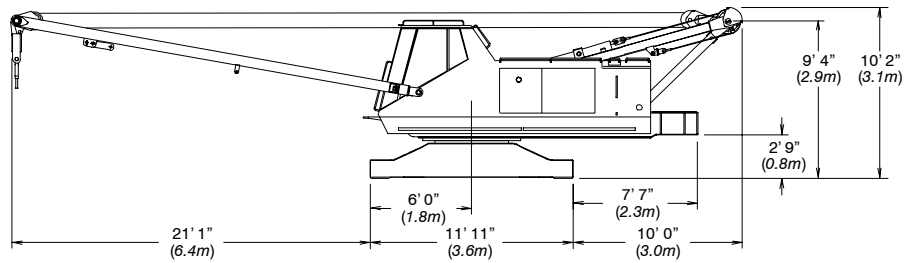
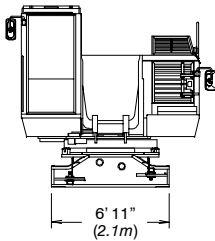
138 HYLAB 5 Crane Transport Weights - approximate



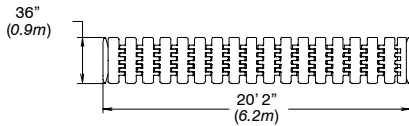
Basic Unit
Bare, no attachment, no rope, no backstops, catwalks on, 1/4 tank of fuel
80,840 lb (36 668kg)



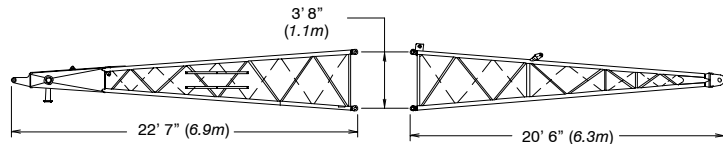
Transport Weight
Rope on both drums, backstops, catwalks, and 1/3 tank of fuel
Tubular: 89,778 lb (40 723kg)
Angle: 90,678 lb (41 131kg)



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

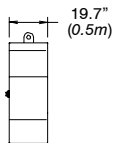


Side Frames w/ 36" (0.9m) Shoes
18,380 lb (8337kg)

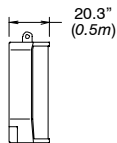


20' (6.1m) Top Section
Tubular: 2,700 lb (1 225kg)
Angle: 3,500 lb (1 588kg)

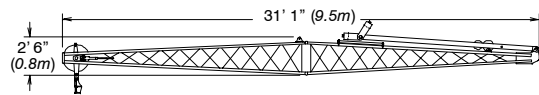
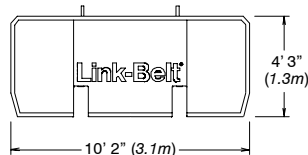
20' (6.1m) Base Section
Tubular: 1,988 lb (902kg)
Angle: 2,853 lb (1 294kg)



"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			Notes and Load Summary
	lb	kg	Load #1	Load #2	Load #3	
Base Crane	89,778	40 723	1			Numbers in the load columns to the left represent quantities.
Add "A" Counterweight	25,250	11 453			1	
Add "B" Counterweight	25,250	11 453		1		Estimated transport load assumes the load out consist of 200' (60.96m) of tube boom + 60' (18.29m) of jib with full counterweight.
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	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.
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				Estimated weights vary by +/- 2%.
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				Estimated Total Load #1 89,778 lb (40 723kg).
Add Tagline Winder	760	345				Estimated Total Load #2 33,959 lb (15 404kg).
Add Fairleader	1,272	577				
Add 30' (9.1m) Tube Jib	1,683	763			1	Estimated Total Load #3 31,877 lb (14 459kg).
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				

Working Weights

Option	Description	Gross Weight lb (kg)	Ground Bearing Pressure psi (kg/cm ²)
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:

- Ground bearing pressure is based on the total weight distributed evenly over the track contact area.
- Total contact area for 36" (0.91m) track shoes is 15,692 in² (101,239cm²).

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/cm²) 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/cm²) 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/cm²) 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/cm²) 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/cm²) 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/cm²) 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 deaeration.

Filtration – One 10 micron, full flow line filter in the control circuit. All oil is filtered prior to entering the reservoir.

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

■ Load Hoist Drums

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

- Power up/down & free-fall operation modes
- Automatic brake mode (spring applied, hydraulically released, band type brake)
- 0.88” (22.35mm) 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” (0.51m) diameter x 5” (0.13m) wide shoe that internally expands to provide load control. Swept area is 314 in² (2 026 cm²).

■ Optional Front Mounted Third Hoist Drum

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

- Free-spooling capability for pile driving applications
- 10.63” (0.27m) 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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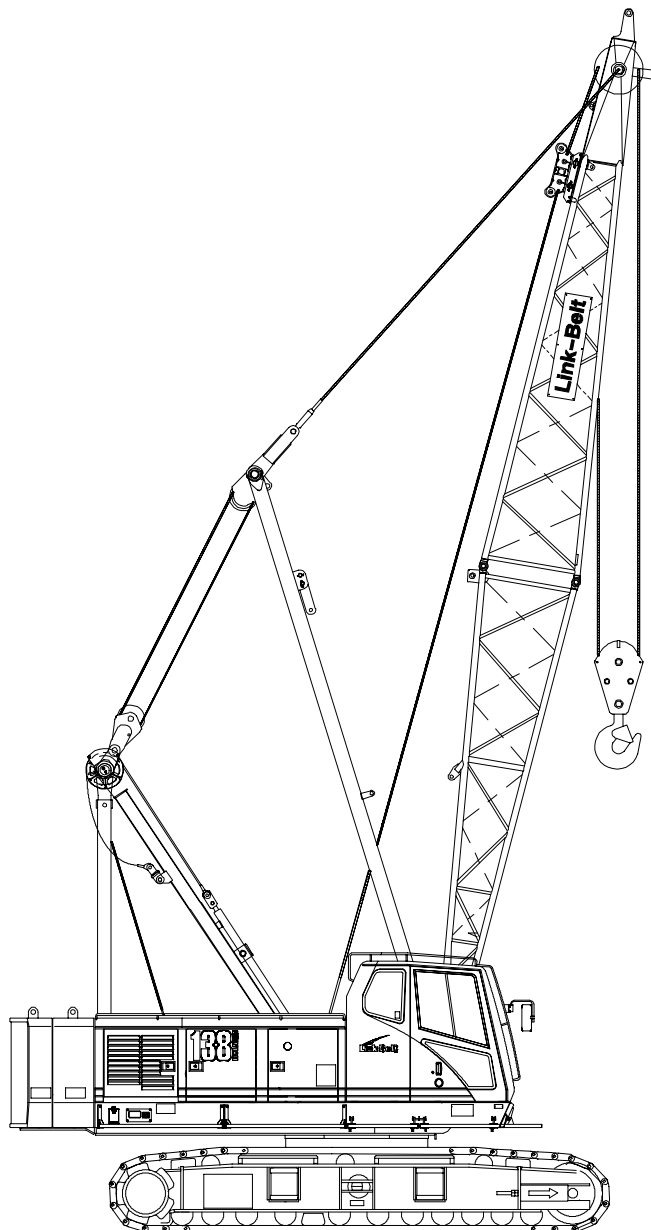
Technical Data

Specifications & **Angle Boom**
Capacities

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HYLAB5

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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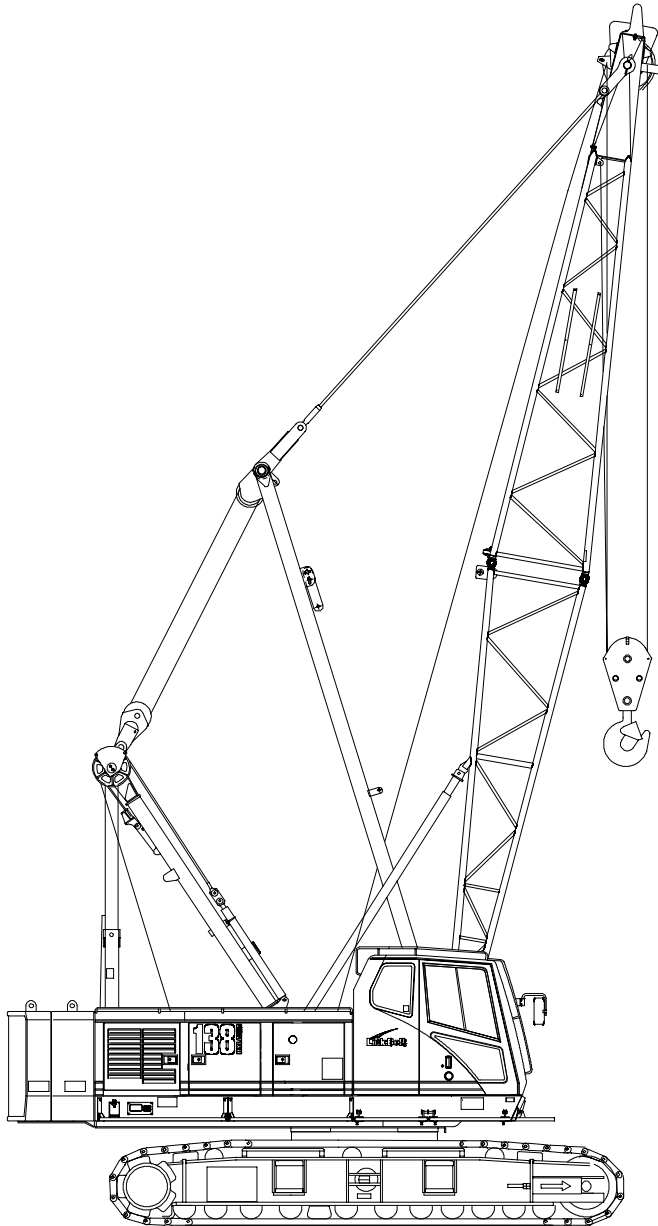
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Specifications

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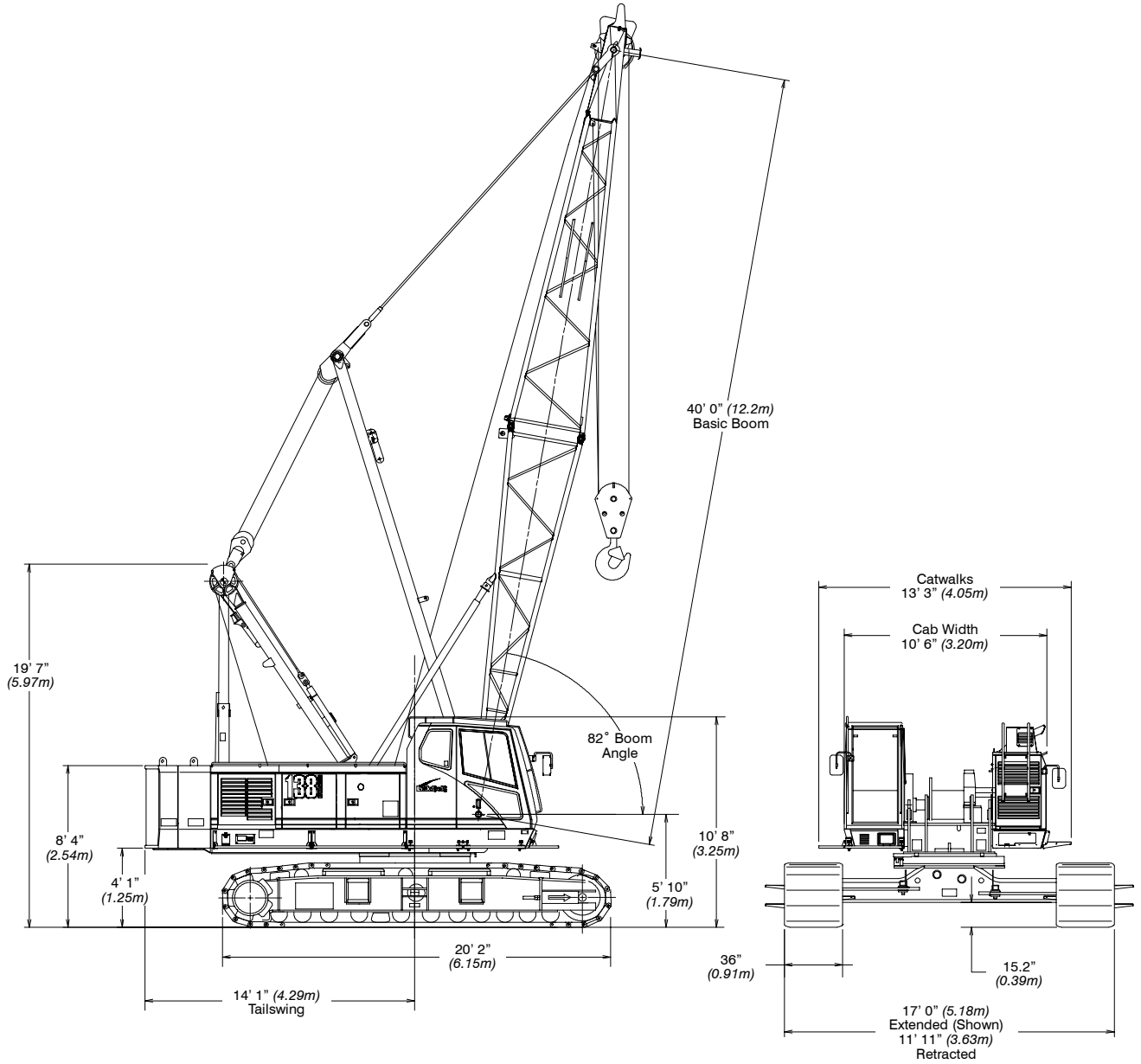
HYLABCS

Crawler Crane
80 Ton (72.6 metric ton)

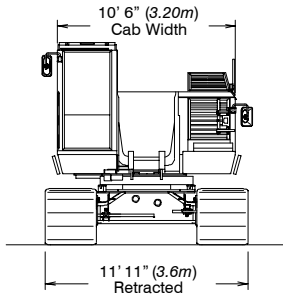


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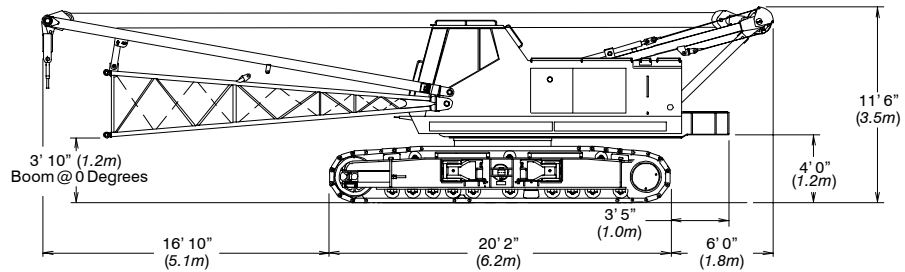
General Dimensions	English	Metric
Tailswing of counterweight "A"	13' 3"	4.04m
Maximum live mast working height	30' 9"	9.4m
Boom foot pin diameter	3.5"	8.9cm
Distance between inside of boom foot lugs	27"	0.7m



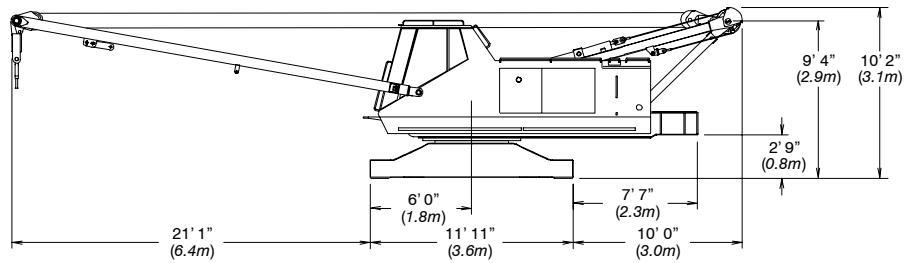
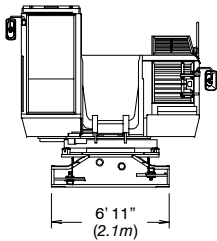
138 HYLAB 5 Crane Transport Weights - approximate



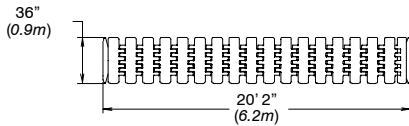
Basic Unit
Bare, no attachment, no rope, no backstops, catwalks on, 1/4 tank of fuel
80,840 lb (36 668kg)



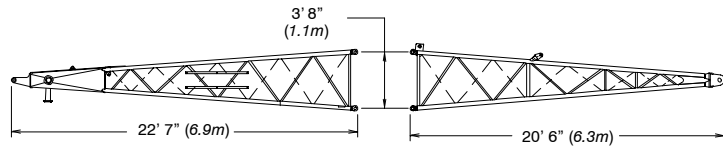
Transport Weight
Rope on both drums, backstops, catwalks, and 1/3 tank of fuel
Tubular: 89,778 lb (40 723kg)
Angle: 90,678 lb (41 131kg)



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

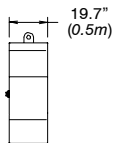


Side Frames w/ 36" (0.9m) Shoes
18,380 lb (8337kg)

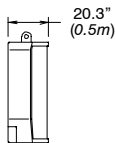


20' (6.1m) Top Section
Tubular: 2,700 lb (1 225kg)
Angle: 3,500 lb (1 588kg)

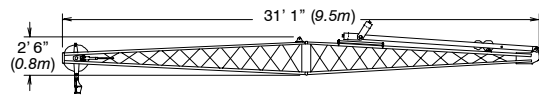
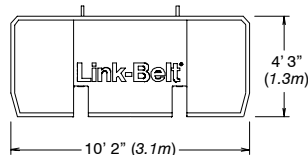
20' (6.1m) Base Section
Tubular: 1,988 lb (902kg)
Angle: 2,853 lb (1 294kg)



"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			Notes and Load Summary
	lb	kg	Load #1	Load #2	Load #3	
Base Crane	89,778	40 723	1			Numbers in the load columns to the left represent quantities.
Add "A" Counterweight	25,250	11 453			1	
Add "B" Counterweight	25,250	11 453		1		Estimated transport load assumes the load out consist of 200' (60.96m) of tube boom + 60' (18.29m) of jib with full counterweight.
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	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.
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				Estimated weights vary by +/- 2%.
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				Estimated Total Load #1 89,778 lb (40 723kg).
Add Tagline Winder	760	345				Estimated Total Load #2 33,959 lb (15 404kg).
Add Fairleader	1,272	577				
Add 30' (9.1m) Tube Jib	1,683	763			1	Estimated Total Load #3 31,877 lb (14 459kg).
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				

Working Weights

Option	Description	Gross Weight lb (kg)	Ground Bearing Pressure psi (kg/cm ²)
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:

- Ground bearing pressure is based on the total weight distributed evenly over the track contact area.
- Total contact area for 36" (0.91m) track shoes is 15,692 in² (101,239cm²).

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/cm²) 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/cm²) 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/cm²) 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/cm²) 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/cm²) 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/cm²) 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 in² (2 026 cm²).

■ Optional Front Mounted Third Hoist Drum

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

- Free-spooling capability for pile driving applications
- 10.63" (0.27m) 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

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Lifting Capacities

Lattice Boom Crawler Crane

138 HYLAB 5

80-ton (72.6 metric ton)

Angle Boom Capacities

40' – 150' (12.19 – 45.72m)

24' (7.31m) Live Mast

- Extended/Retracted Side Frames

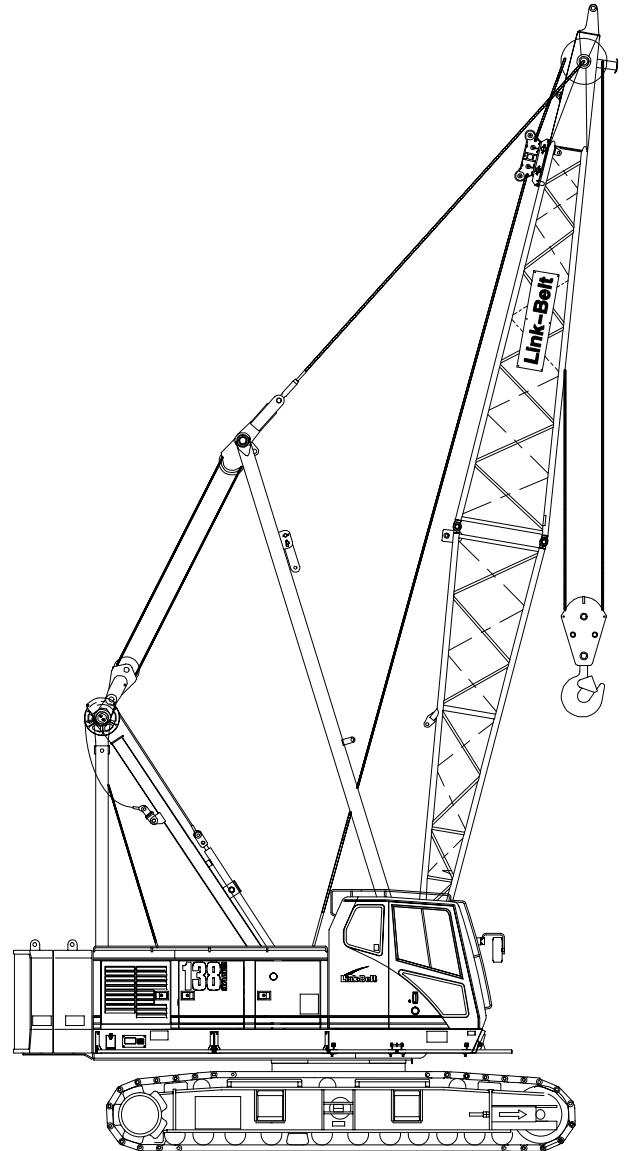
5' (1.52m) Tip Extension

Duty Cycle Capacities

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

Angle Boom Capacities

- 40' – 150' (12.19 – 45.72m) Angle Boom
- 48" (1.22m) Wide x 48" (1.22m) Deep Boom
- 20' (6.10m) Open Throat Top Section
- With or Without 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.
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).

LIFT CRANE OPERATION:

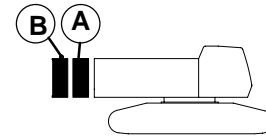
1. Capacities shown are in pounds and are not more than 75% of the tipping loads with the crane standing level on firm supporting surface. A deduction must be made from these capacities for weight of hook block, hook ball, sling, grapple, load weighing device (other than those supplied with the crane), etc. When using main hook while jib is attached, reduce capacities by values shown on Capacity Deductions For Lifting Off Main Boom Hook With Jib Installed. When using main hook while 5' 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.
6. The capacities listed in the Crane Rating Manual are for the crane with or without live mast, with the gantry in the raised position.
7. The least stable rated condition is over the side.
8. Booms must be erected and lowered over the end for maximum stability.
9. Do not operate at radii and boom lengths where the Crane Rating Manual lists no capacity. Do not use longer booms or jibs than those listed in 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

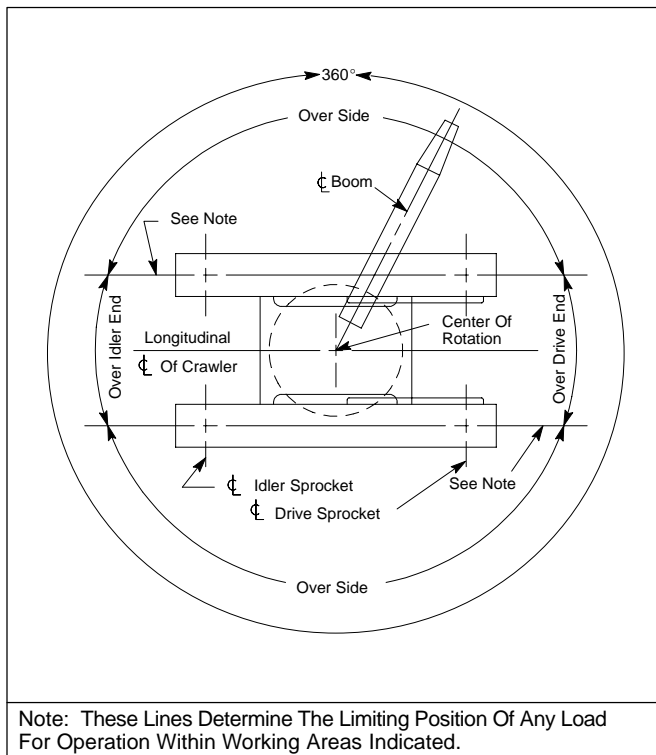
Parts of Line	7/8"		5/8"		Notes
	Type "DB"	Type "RB"	Type "ZB"	Type "WB"	
1	22,700	17,520 *	11,000 **	13,650 *	Capacities shown are in pounds and working loads must not exceed the ratings on the capacity charts in the Crane Rating Manual. Study Operator's Manual for wire rope inspection procedures and single part of line applications.
2	45,400	35,040	22,000	27,310	
3	68,100	52,560	33,000	40,970	
4	90,800	70,080	44,000	54,620	
5	113,500	87,600	55,000	68,280	
6	136,200	105,120	66,000	81,940	
7	158,900	122,640	77,000	95,600	
8	181,600	140,160	88,000	109,250	
LBCE Type	Description				
DB	6 x 26 (6 x 19 Class) – Warrington Seale – Extra Improved Plow Steel – Preformed – Right Lay – Regular Lay – I.W.R.C.				
RB	19 x 19 Rotation Resistant– Extra Extra Improved Plow Steel – Preformed – Right Lay – Regular Lay. Swaged				
ZB	36 x 7 Class – Non–Rotating – Extra Improved Plow Steel – Right Lay – Regular Lay				
WB	8 Strand – Regular Lay				
M	6 X 19 Class – Extra Improved Plow Steel – Lang Lay				



LIFTOFF CAPABILITIES

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

WORKING AREAS



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

NOTES:

1. For maximum stability, booms must be erected or lowered over the end with no load – hook block on ground.
2. Crane on firm and level surface.
3. gantry pins must be installed when the gantry is in the lowered position.
4. For 150' boom (side frames extended) with A counterweight only – Adequate blocking must be placed under both side frame sprockets (or idler rollers) at the end that the boom is to be lifted off to prevent rocking. 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 FOOT TIP EXTENSION INSTALLED

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

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

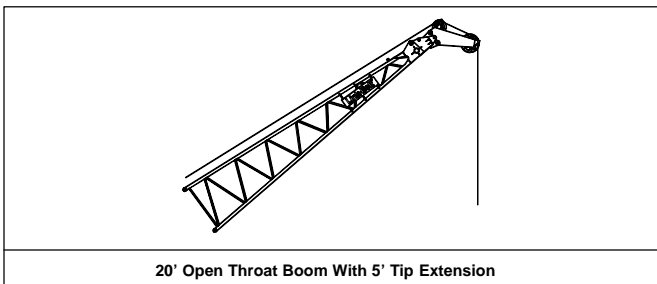
MAXIMUM ALLOWABLE CAPACITIES FOR 5' TIP EXTENSION

Lifting capacity to be the smallest of the following values:

- 18,000 lb
- 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:

- All notes are to be adhered to as listed on the standard lift crane capacity charts.
- Reduce the main boom lift capacities by 1,100 lb when the tip extension is installed.
- The 5' tip extension can be installed on the maximum boom length of 150'.
- Do not lift or suspend a load from the boom tip extension and main boom at the same time.

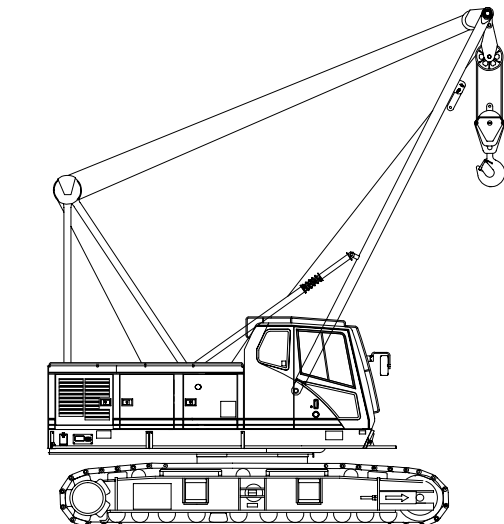


LIVE MAST LIFTING CAPACITIES (WITHOUT COUNTERWEIGHT INSTALLED)

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

Notes:

- Refer to the Operator's Manual.
- Live mast backstops must be in position and operative.
- Use rear hoist drum only. Reeve hoist line to drum over live mast cross member.
- Reeve hoist rope with three (3) parts of 7/8" diameter wire rope.
- The crane shall be leveled on a firm supporting surface.
- Capacities are based on 75% stability.
- See Crane Assembly Component Weights chart for weight of components for crane assembly in the Crane Rating Manual.
- Rated capacities for 360° rotation.
- 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.
- Do not lower live mast below 3° angle with gantry in lowered position.



DUTY CYCLE NOTES FOR ANGLE BOOM

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

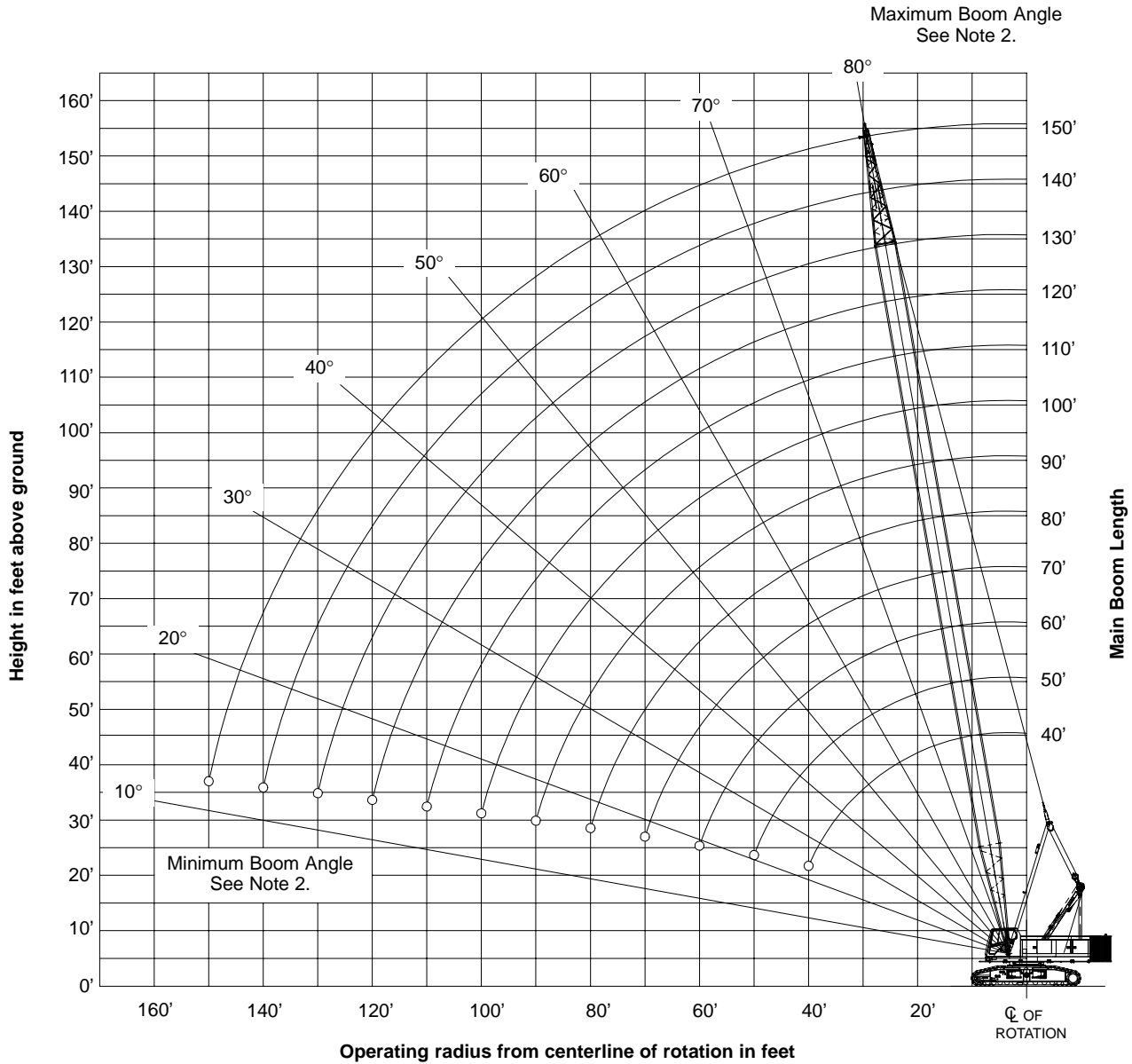
DUTY CYCLE CAPACITIES – ANGLE BOOM

Boom Length (ft)	Load Radius (ft)	Boom Angle (deg)	Side Frames Extended – “A” Counterweight Only (All capacities listed are in pounds)	
			Dragline	Clamshell/Magnet
40	9	81.8	---	22,700
40	10	80.3	---	22,700
40	11	78.9	---	22,700
40	12	77.4	---	22,700
40	13	75.9	---	22,700
40	14	74.5	---	22,700
40	15	73.0	---	22,700
40	16	71.5	---	22,700
40	17	69.9	---	22,700
40	18	68.4	---	22,700
40	19	66.9	---	22,700
40	20	65.3	---	22,700
40	25	57.1	22,700	22,700
40	30	48.1	22,700	22,700
40	35	37.5	22,700	22,700
40	40	23.4	---	20,160
50	11	81.1	---	22,700
50	12	80.0	---	22,700
50	13	78.8	---	22,700
50	14	77.6	---	22,700
50	15	76.4	---	22,700
50	16	75.3	---	22,700
50	17	74.1	---	22,700
50	18	72.9	---	22,700
50	19	71.7	---	22,700
50	20	70.5	---	22,700
50	25	64.3	---	22,700
50	30	57.7	22,700	22,700
50	35	50.6	22,700	22,700
50	40	42.7	22,500	20,250
50	50	20.9	---	14,670
60	12	81.6	---	22,700
60	13	80.7	---	22,700
60	14	79.7	---	22,700
60	15	78.7	---	22,700
60	16	77.8	---	22,700
60	17	76.8	---	22,700
60	18	75.8	---	22,700

Boom Length (ft)	Load Radius (ft)	Boom Angle (deg)	Side Frames Extended – “A” Counterweight Only (All capacities listed are in pounds)	
			Dragline	Clamshell/Magnet
60	19	74.8	---	22,700
60	20	73.8	---	22,700
60	25	68.8	---	22,700
60	30	63.6	---	22,700
60	35	58.1	22,700	22,700
60	40	52.3	22,400	20,160
60	50	38.9	16,300	14,670
60	60	19.0	---	11,160
70	14	81.2	---	22,700
70	15	80.4	---	22,700
70	16	79.5	---	22,700
70	17	78.7	---	22,700
70	18	77.9	---	22,700
70	19	77.0	---	22,700
70	20	76.2	---	22,700
70	25	71.9	---	22,700
70	30	67.6	---	22,700
70	35	63.1	---	22,700
70	40	58.4	22,200	19,980
70	50	48.1	16,200	14,580
70	60	35.9	12,400	11,160
70	70	17.6	---	8,730
80	15	81.6	---	22,700
80	16	80.9	---	22,700
80	17	80.1	---	22,700
80	18	79.4	---	22,700
80	19	78.7	---	22,700
80	20	77.9	---	22,700
80	25	74.2	---	22,700
80	30	70.5	---	22,700
80	35	66.6	---	22,700
80	40	62.7	---	19,800
80	50	54.3	16,000	14,400
80	60	44.8	12,200	10,980
80	70	33.5	9,600	8,640
80	80	16.5	---	6,840

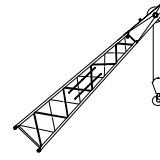
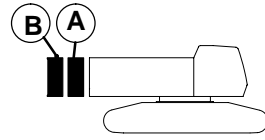
WORKING RANGE DIAGRAM

40' TO 150' 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.

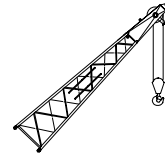
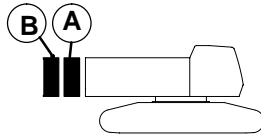


MAIN BOOM CAPACITIES – 40 FT OPEN THROAT ANGLE BOOM							
Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation				
			Side Frames Extended			Side Frames Retracted	
			AB CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)
8.9	82.0	160,000	160,000	160,000	160,000	145,600	77,200
9	81.8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

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

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

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



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

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

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

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



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

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

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

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

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Jib Capacities

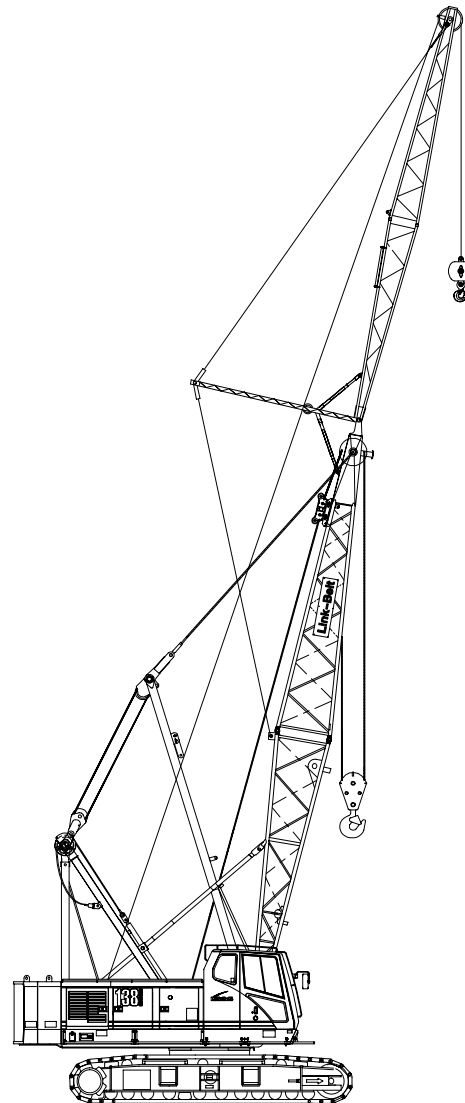
Lattice Boom Crawler Crane

138 HYLAB 5

80-ton (72.6 metric ton)

Angle Boom + Jib

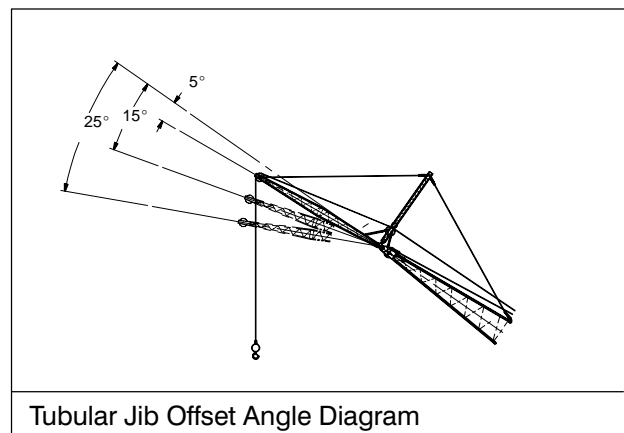
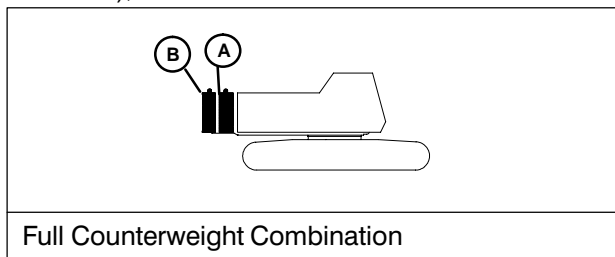
- 40'–140' (12.19 – 42.7m) Angle Boom with 30' – 60' (9.14 – 18.28m) of Jib
- 40' – 150' (12.19 – 45.72m) Angle Boom with 30' (9.14m) of Jib
- 20' (6.10m) Open Throat Top Section with 32" (0.81m) Wide x 24" (0.61m) Deep Jib
- With or Without 24' (7.31m) Live Mast
- Extended / Retracted Side Frames
-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

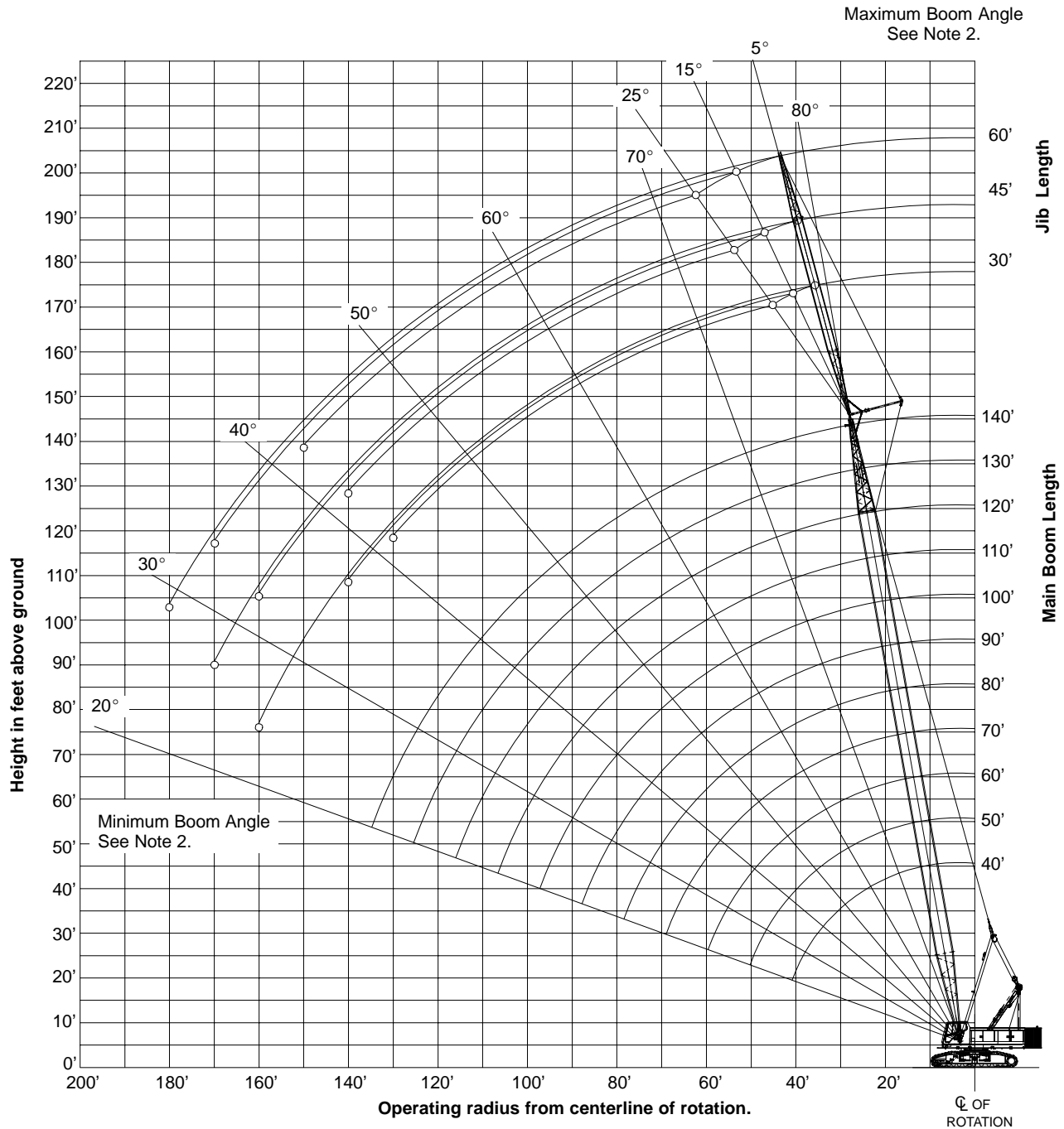
TUBULAR JIB NOTES FOR OPEN THROAT BOOM

1. Capacities are for a 138 HYLAB 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 (or idler rollers) at the end that the load is to be lifted to prevent rocking. The ramps supplied with the crane are considered to be adequate blocking.
4. Capacities are for side frames in the extended position only and are based on the crane standing level on a firm supporting surface.
5. Capacities are limited to a LBCE 48" x 48" angle boom with an open throat and a LBCE 12 ton, 24" x 32" cross section jib with a 11'6" high jib mast properly assembled.
6. Two parts of 7/8" Diameter Type "DB" or Type "RB" wire rope are required for maximum lift.
7. Capacities are for 30', 45', and 60' jib lengths only.
8. Maximum boom plus jib combination is 140' + 60' or 150' + 30'. The only jib length available on the 150' open throat boom length is 30'.
9. The least stable condition is over the side.
10. All capacities are listed in pounds and are not more than 75% of the tipping loads. Those capacities followed by an asterisk (*) are governed by factors other than those that would cause a tipping condition.
11. A deduction must be made from the jib capacities for the weight of the following: Main boom hook block or hook ball, jib hook block or hook ball, slings, grapple, load weighing devices (other than those supplied with the crane), etc.



WORKING RANGE DIAGRAM

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

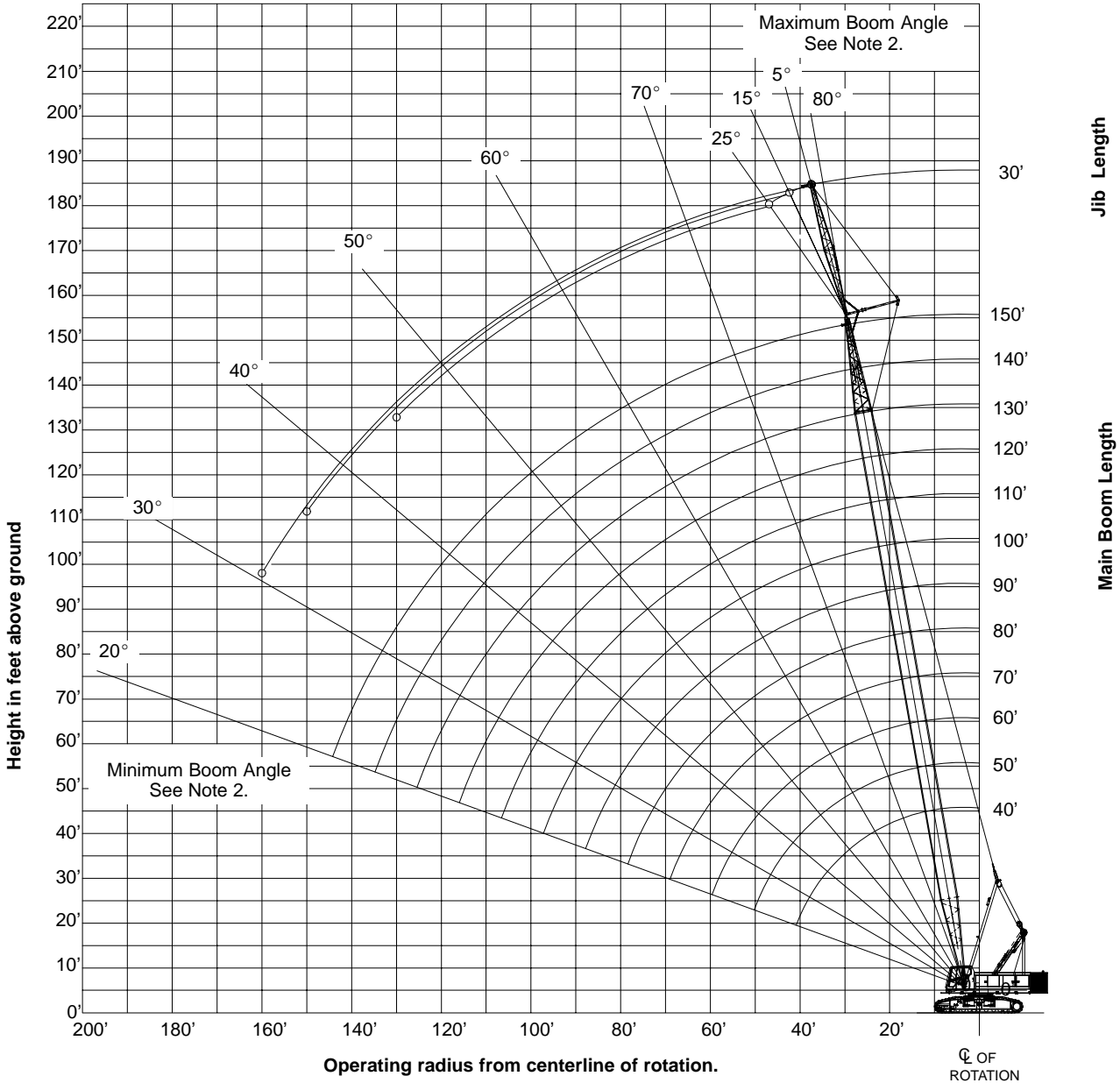


Notes:

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

40' TO 150' 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.

138 HYLAB 5 - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Cwt

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

138 HYLAB 5 - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctw

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

138 HYLAB 5 - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctw

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

138 HYLAB 5 - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Cwt

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

138 HYLAB 5 - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Cwt

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 Degrees				15 Degrees				25 Degrees								
			Boom Angle (deg)	Jib Point Height (ft)	Over End Capacity (lbs)	Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Capacity (lbs)	Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)		Over End Capacity (lbs)	Jib Capacity (lbs)	360° Jib Capacity (lbs)	
80	30	25.3	80.0	115.4	24,000 *	24,000 *													25.3
80	30	30	77.5	114.3	24,000 *	24,000 *			0										30
80	30	35	74.9	113.0	24,000 *	24,000 *	77.4	112.4	24,000 *	24,000 *	79.8	110.9	20,600 *	20,600 *					35
80	30	40	72.2	111.4	24,000 *	24,000 *	74.7	110.8	24,000 *	24,000 *	77.1	109.3	19,100 *	19,100 *					40
80	30	50	66.6	107.4	24,000 *	24,000 *	69.1	106.8	23,100 *	23,100 *	71.4	105.2	17,300 *	17,300 *					50
80	30	60	60.8	102.1	23,200	19,600	63.3	101.5	20,000 *	19,900	65.5	99.8	16,000 *	16,000 *					60
80	30	70	54.7	95.5	18,800	15,900	57.1	94.9	17,700 *	16,200	59.2	93.0	14,700 *	14,700 *					70
80	30	80	48.0	87.1	15,600	13,200	50.3	86.4	15,800	13,300	52.3	84.4	13,700 *	13,500					80
80	30	90	40.5	76.3	13,200	11,100	42.7	75.5	13,300	11,200									90
80	30	100	31.4	61.8	10,700 *	9,400													100
80	45	29.2	80.0	129.6	24,000 *	24,000 *													29.2
80	45	30	79.6	129.4	24,000 *	24,000 *													30
80	45	35	77.3	128.2	24,000 *	24,000 *													35
80	45	40	74.9	126.8	24,000 *	24,000 *	78.3	125.9	18,100 *	18,100 *									40
80	45	50	70.1	123.2	20,700 *	20,700 *	73.5	122.4	17,100 *	17,100 *	76.7	120.2	12,200 *	12,200 *					50
80	45	60	65.2	118.6	17,400 *	17,400 *	68.5	117.8	14,700 *	14,700 *	71.6	115.6	10,900 *	10,900 *					60
80	45	70	60.0	113.0	16,500 *	16,200	63.3	112.1	13,000 *	13,000 *	66.3	109.8	9,900 *	9,900 *					70
80	45	80	54.5	106.0	14,400 *	13,400	57.8	105.2	11,600 *	11,600 *	60.6	102.6	9,100 *	9,100 *					80
80	45	90	48.6	97.5	12,800 *	11,300	51.8	96.6	10,600 *	10,600 *	54.5	93.8	8,400 *	8,400 *					90
80	45	100	42.0	86.9	11,500 *	9,700	45.1	85.8	9,700 *	9,700 *	47.6	82.7	7,900 *	7,900 *					100
80	45	110	34.4	73.3	9,800 *	8,300	37.3	72.0	9,000 *	8,400									110
80	60	33.1	80.0	144.2	23,700 *	23,700 *													33.1
80	60	35	79.2	143.7	22,800 *	22,800 *													35
80	60	40	77.1	142.5	20,300 *	20,300 *													40
80	60	50	72.9	139.3	17,300 *	17,300 *	76.9	138.4	13,400 *	13,400 *									50
80	60	60	68.5	135.4	15,200 *	15,200 *	72.6	134.5	11,500 *	11,500 *	76.4	131.9	8,400 *	8,400 *					60
80	60	70	64.0	130.5	13,000 *	13,000 *	68.0	129.6	10,100 *	10,100 *	71.8	126.8	7,500 *	7,500 *					70
80	60	80	59.3	124.5	11,300 *	11,300 *	63.3	123.6	9,000 *	9,000 *	66.9	120.7	6,800 *	6,900 *					80
80	60	90	54.4	117.4	10,000 *	10,000 *	58.3	116.5	8,100 *	8,100 *	61.8	113.4	6,300 *	6,300 *					90
80	60	100	49.1	108.9	8,900 *	8,900 *	52.9	107.8	7,400 *	7,400 *	56.3	104.5	5,800 *	5,800 *					100

138 HYLAB 5 - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Cwt

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

138 HYLAB 5 - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Cwt

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

138 HYLAB 5 - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Cwt

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

138 HYLAB 5 - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctw

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

138 HYLAB 5 - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Cwt

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

138 HYLAB 5 - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Cwt

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 Degrees				15 Degrees				25 Degrees								
			Boom Angle (deg)	Jib Point Height (ft)	Over End Capacity (lbs)	Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)	Over End Capacity (lbs)	Jib Capacity (lbs)	360° Jib Capacity (lbs)	Boom Angle (deg)	Jib Point Height (ft)		Over End Capacity (lbs)	Jib Capacity (lbs)	360° Jib Capacity (lbs)	
120	60	40.0	80.0	183.6	20,600 *	20,600 *													40.0
120	60	50	76.8	181.2	17,800 *	17,700 *	79.9	180.1	15,000 *	15,000 *									50
120	60	60	73.5	178.2	16,200 *	16,200 *	76.6	177.1	13,100 *	13,100 *	79.6	174.2	9,100 *	9,100 *					60
120	60	70	70.1	174.5	14,400 *	14,400 *	73.2	173.4	11,700 *	11,700 *	76.2	170.5	8,300 *	8,300 *					70
120	60	80	66.7	170.2	12,900 *	12,600 *	69.8	169.1	10,500 *	10,500 *	72.7	166.1	7,600 *	7,600 *					80
120	60	90	63.1	165.1	11,700 *	10,400 *	66.2	164.0	9,600 *	9,600 *	69.0	160.9	7,100 *	7,100 *					90
120	60	100	59.5	159.2	10,600 *	8,700 *	62.5	158.1	8,800 *	8,800 *	65.3	154.8	6,600 *	6,600 *					100
120	60	110	55.7	152.4	9,100 *	7,400 *	58.7	151.2	8,100 *	7,700 *	61.4	147.8	6,200 *	6,200 *					110
120	60	120	51.7	144.6	7,800 *	6,300 *	54.6	143.3	7,500 *	6,500 *	57.2	139.7	5,900 *	5,900 *					120
120	60	130	47.4	135.5	6,700 *	5,300 *	50.3	134.2	7,000 *	5,600 *	52.8	130.3	5,600 *	5,600 *					130
120	60	140	42.8	124.9	5,800 *	4,500 *	45.7	123.5	6,000 *	4,700 *	48.0	119.3	5,300 *	4,900 *					140
120	60	150	37.8	112.4	4,700 *	3,900 *	40.6	110.8	5,100 *	4,000 *									150
120	60	160	32.1	97.1	3,500 *	3,300 *													160
130	30	34.0	80.0	164.6	24,000 *	24,000 *													34.0
130	30	35	79.6	164.4	24,000 *	24,000 *													35
130	30	40	77.8	163.4	24,000 *	24,000 *	79.6	162.7	24,000 *	24,000 *									40
130	30	50	74.1	160.7	24,000 *	23,900 *	75.9	160.0	23,500 *	23,500 *	77.5	158.4	19,200 *	19,200 *					50
130	30	60	70.4	157.3	21,900 *	18,300 *	72.1	156.7	21,000 *	18,700 *	73.7	155.0	17,500 *	17,600 *					60
130	30	70	66.6	153.2	17,400 *	14,600 *	68.3	152.5	17,800 *	15,000 *	69.8	150.8	17,000 *	15,300 *					70
130	30	80	62.6	148.2	14,300 *	11,800 *	64.3	147.6	14,600 *	12,100 *	65.8	145.8	14,900 *	12,400 *					80
130	30	90	58.5	142.4	11,900 *	9,700 *	60.2	141.7	12,100 *	10,000 *	61.6	139.8	12,300 *	10,200 *					90
130	30	100	54.2	135.5	9,900 *	8,000 *	55.8	134.8	10,100 *	8,200 *	57.2	132.8	10,300 *	8,400 *					100
130	30	110	49.6	127.4	8,400 *	6,700 *	51.3	126.6	8,600 *	6,900 *	52.6	124.5	8,700 *	7,000 *					110
130	30	120	44.7	117.8	7,100 *	5,600 *	46.3	117.0	7,300 *	5,700 *	47.5	114.6	7,400 *	5,800 *					120
130	30	130	39.4	106.4	5,800 *	4,700 *	40.9	105.4	6,100 *	4,800 *									130
130	30	140	33.2	92.3	4,400 *	3,900 *	34.7	91.1	4,600 *	4,000 *									140
130	30	150	25.8	73.9	2,900 *	2,900 *													150

138 HYLAB 5 - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Ctw

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

138 HYLAB 5 - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Cwt

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

138 HYLAB 5 - w/ 48" x 48" Angle Boom, w/ 24" x 32" Tube Jib, w/ "AB" Cwt

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

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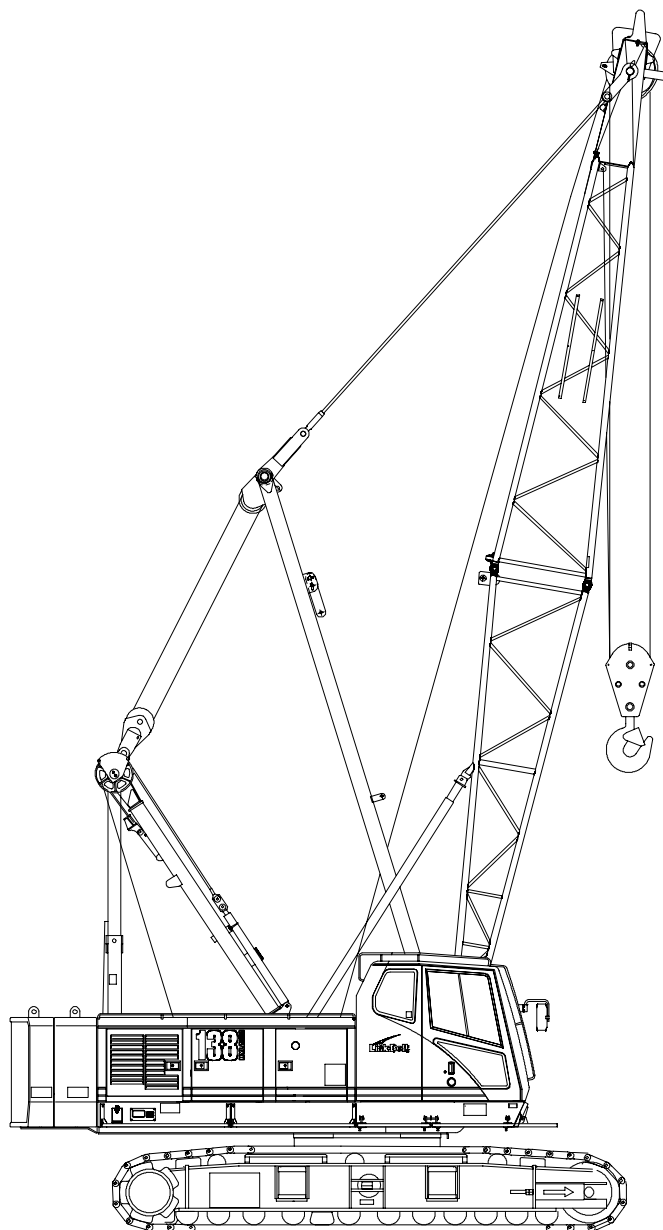
Technical Data

Specifications & Tube Boom Capacities

138

HYLAB5

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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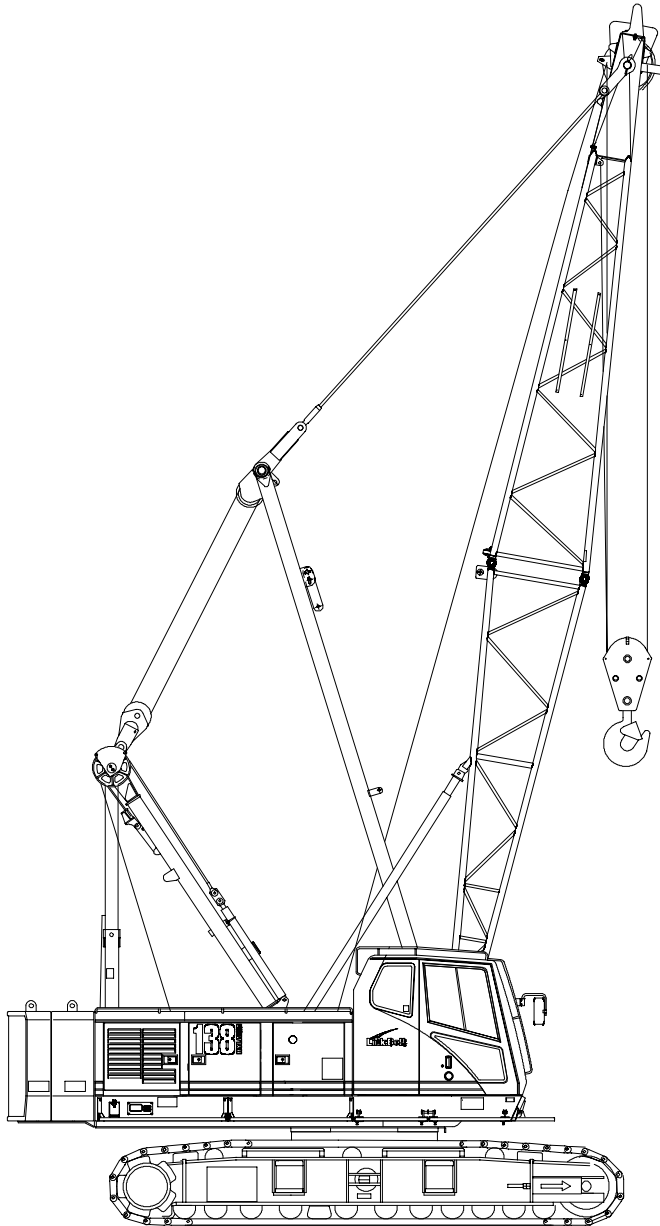
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Specifications

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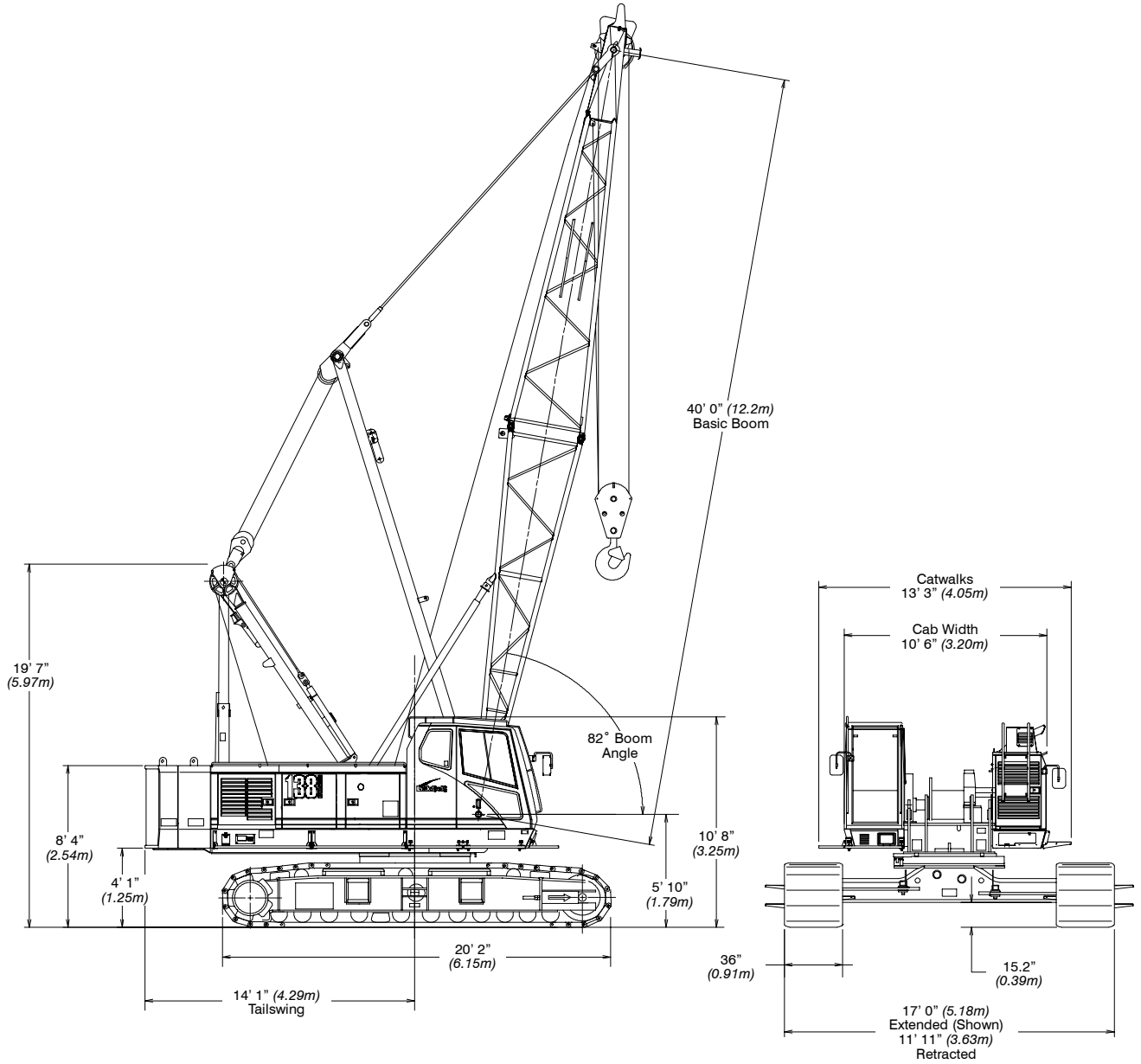
HYLABCS

Crawler Crane
80 Ton (72.6 metric ton)

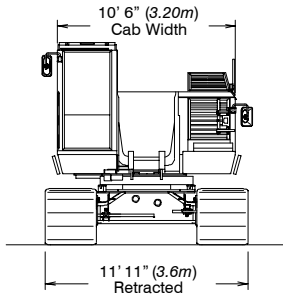


CAUTION: This material is supplied for reference use only. Operator must refer to in-cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly and operating procedures.

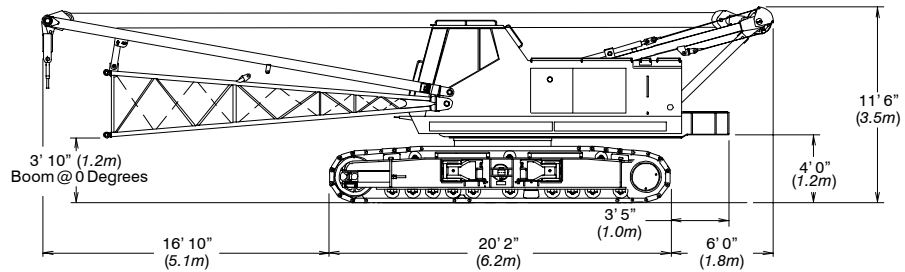
General Dimensions	English	Metric
Tailswing of counterweight "A"	13' 3"	4.04m
Maximum live mast working height	30' 9"	9.4m
Boom foot pin diameter	3.5"	8.9cm
Distance between inside of boom foot lugs	27"	0.7m



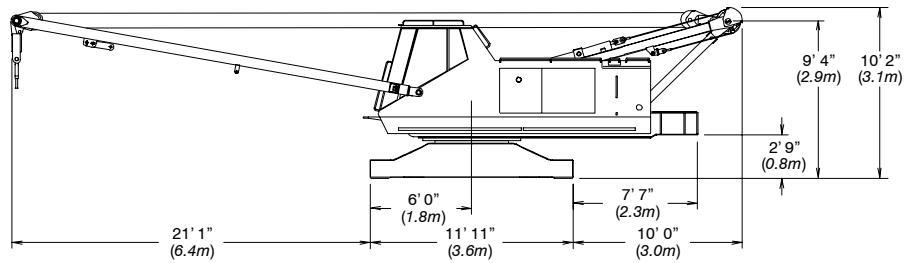
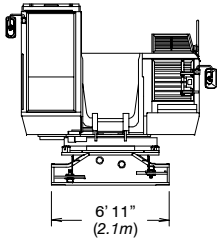
138 HYLAB 5 Crane Transport Weights - approximate



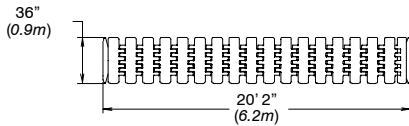
Basic Unit
Bare, no attachment, no rope, no backstops, catwalks on, 1/4 tank of fuel
80,840 lb (36 668kg)



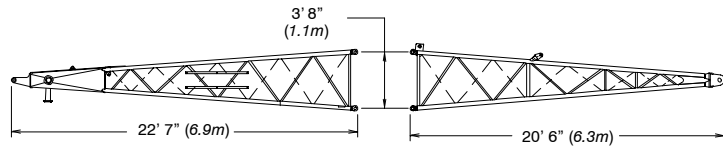
Transport Weight
Rope on both drums, backstops, catwalks, and 1/3 tank of fuel
Tubular: 89,778 lb (40 723kg)
Angle: 90,678 lb (41 131kg)



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

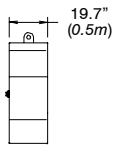


Side Frames w/ 36" (0.9m) Shoes
18,380 lb (8337kg)

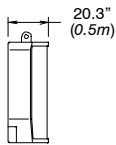


20' (6.1m) Top Section
Tubular: 2,700 lb (1 225kg)
Angle: 3,500 lb (1 588kg)

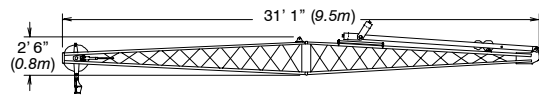
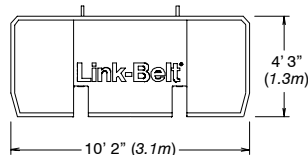
20' (6.1m) Base Section
Tubular: 1,988 lb (902kg)
Angle: 2,853 lb (1 294kg)



"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			Notes and Load Summary
	lb	kg	Load #1	Load #2	Load #3	
Base Crane	89,778	40 723	1			Numbers in the load columns to the left represent quantities.
Add "A" Counterweight	25,250	11 453			1	
Add "B" Counterweight	25,250	11 453		1		Estimated transport load assumes the load out consist of 200' (60.96m) of tube boom + 60' (18.29m) of jib with full counterweight.
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	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.
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				Estimated weights vary by +/- 2%.
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				Estimated Total Load #1 89,778 lb (40 723kg).
Add Tagline Winder	760	345				Estimated Total Load #2 33,959 lb (15 404kg).
Add Fairleader	1,272	577				
Add 30' (9.1m) Tube Jib	1,683	763			1	Estimated Total Load #3 31,877 lb (14 459kg).
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				

Working Weights

Option	Description	Gross Weight lb (kg)	Ground Bearing Pressure psi (kg/cm ²)
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:

- Ground bearing pressure is based on the total weight distributed evenly over the track contact area.
- Total contact area for 36" (0.91m) track shoes is 15,692 in² (101,239cm²).

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/cm²) 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/cm²) 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/cm²) 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/cm²) 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/cm²) 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/cm²) 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 in² (2 026 cm²).

■ Optional Front Mounted Third Hoist Drum

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

- Free-spooling capability for pile driving applications
- 10.63" (0.27m) 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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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

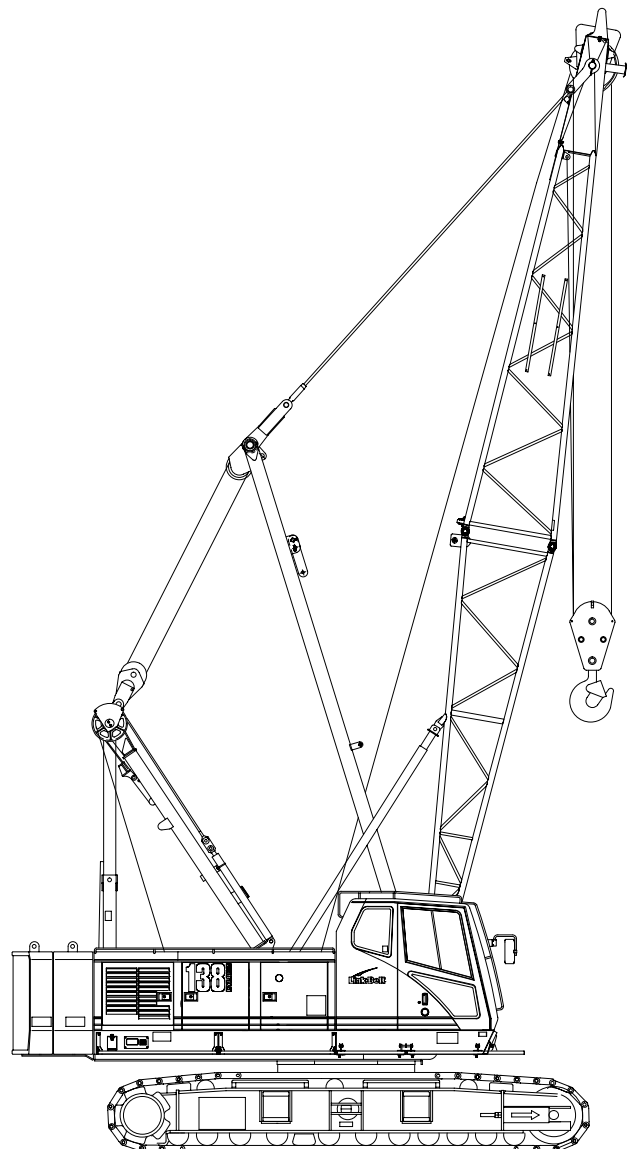
5' (1.52m) Tip Extension

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 "O" 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.

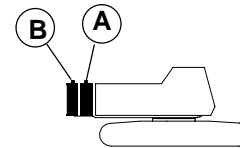
3. For recommended reeving, parts of line, wire rope type, and wire rope inspection, see Wire Rope Capacity chart, Operator's Manual, and Parts Manual.
4. Load ratings in the Crane Rating Manual are based on freely suspended loads and make no allowances for such factors as the effect of the wind, ground 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"		Notes
	Type "DB"	Type "RB"	Type "ZB"	Type "WB"	
1	22,700	17,520	11,000	13,650	Capacities shown are in pounds and working loads must not exceed the ratings on the capacity charts in the Crane Rating Manual. Study Operator's Manual for wire rope inspection procedures and single part of line applications.
2	45,400	35,040	22,000	27,310	
3	68,100	52,560	33,000	40,970	
4	90,800	70,080	44,000	54,620	
5	113,500	87,600	55,000	68,280	
6	136,200	105,120	66,000	81,940	
7	158,900	122,640	77,000	95,600	
8	181,600	140,160	88,000	109,250	
LBCE Type	Description				
DB	6 x 26 (6 x 19 Class) – Warrington Seale – Extra Improved Plow Steel – Preformed – Right Lay – Regular Lay – I.W.R.C.				
RB	19 x 19 Rotation Resistant– Extra Extra Improved Plow Steel – Preformed – Right Lay – Regular Lay. Swaged				
ZB	36 x 7 Class – Non–Rotating – Extra Improved Plow Steel – Right Lay – Regular Lay				
WB	8 Strand – Regular Lay				

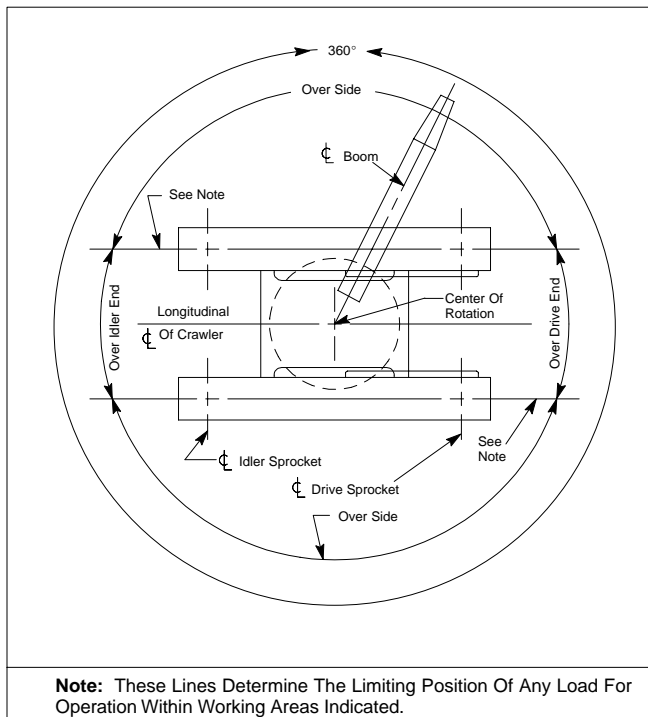


LIFTOFF CAPABILITIES

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

WORKING AREAS



NOTES:

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

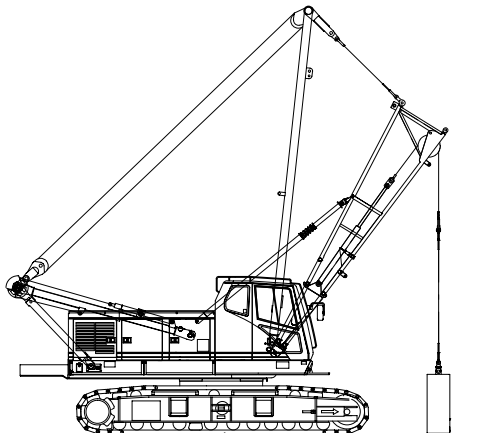
Tip Extension	Capacity Deduction (lb)
5' Tip Extension – Not Reeved	900
5' Tip Extension – With 15T Hook Ball	2,200

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

Base Section Cylinders		Side Frames Extended (lb)	Side Frames Retracted (lb)
Radius (ft)	Angle (deg)		
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.

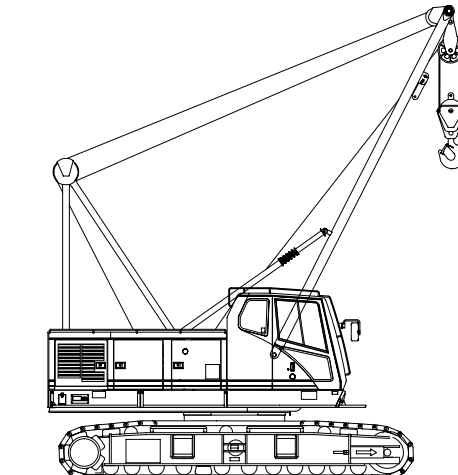


LIVE MAST LIFTING CAPACITIES (WITHOUT COUNTERWEIGHT INSTALLED)

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

NOTES:

1. Refer to the Operator's Manual.
2. Live mast backstops must be in position and operative.
3. Use rear hoist drum only. Reeve hoist line to drum over live mast cross member.
4. Reeve hoist rope with three (3) parts of 7/8" diameter wire rope.
5. The crane shall be leveled on a firm supporting surface.
6. Capacities are based on 75% stability.
7. See Crane Assembly Component Weights chart for weight of components for crane assembly 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.



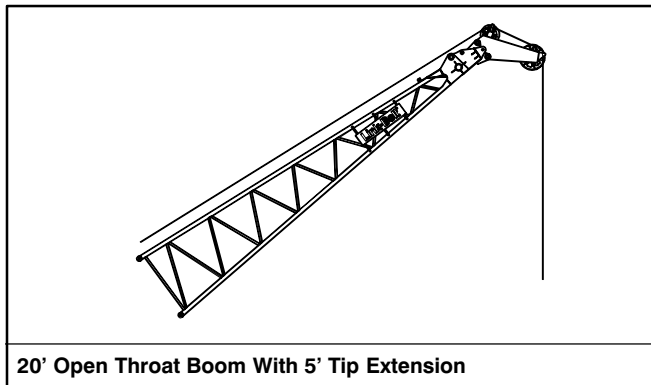
MAXIMUM ALLOWABLE CAPACITIES FOR 5' TIP EXTENSION

LIFTING CAPACITY TO BE THE SMALLEST OF THE FOLLOWING VALUES:

- 18,000 lb
- 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:

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



DUTY CYCLE NOTES FOR TUBULAR BOOM

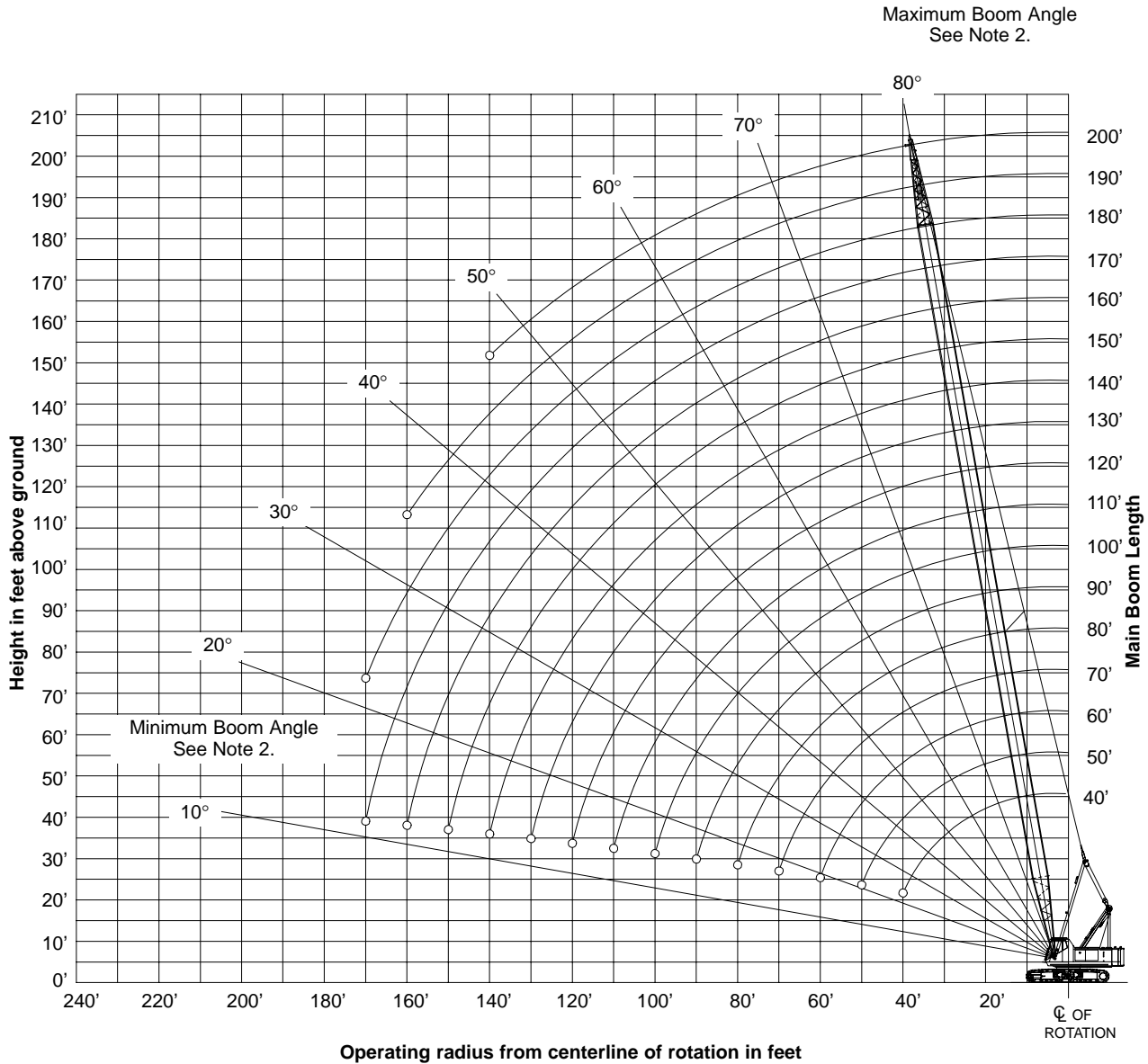
- The capacities included in this chart are the maximum allowable, and are based on crane standing level on firm supporting surface under ideal job conditions.
- Capacities are based on 75% of minimum tipping loads for dragline; 67.5% for clamshell.
- Capacities are maximum recommended by PCSA Standard #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.
- Weight of bucket plus load must not exceed these capacities.
- Dragline operation is not recommended with boom angles less than 35°.
- Boom length for dragline/clamshell attachment operation should not exceed 70'.
- Retractable high gantry must be fixed in raised position for all capacities on this chart.
- 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

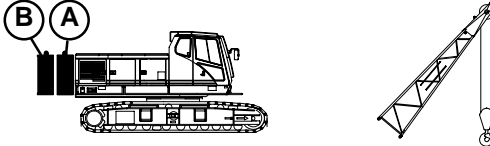
WORKING RANGE DIAGRAM

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

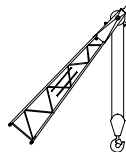
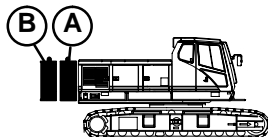
MAIN BOOM CAPACITIES – 70 FT OPEN THROAT TUBE BOOM							
Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation				
			Side Frames Extended			Side Frames Retracted	
			AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
14	81.2	129,700	129,700	119,600	70,600	67,100	35,700
15	80.4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

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

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

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

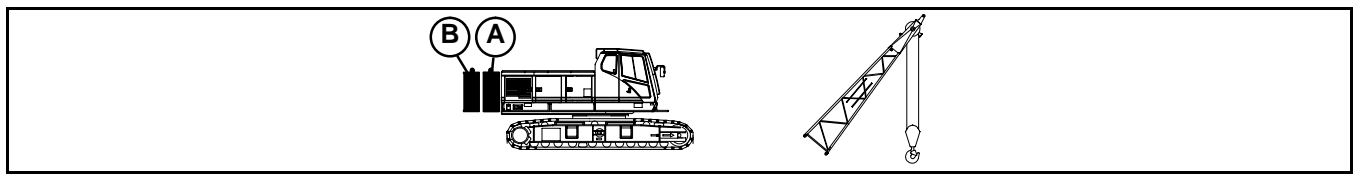
MAIN BOOM CAPACITIES – 130 FT OPEN THROAT TUBE BOOM									
Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation					PROHIBITED	PROHIBITED
			Side Frames Extended				Side Frames Retracted		
			AB CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)		
25	80.4	65,100	65,100	44,500	—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

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

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

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

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



MAIN BOOM CAPACITIES 160 FT OPEN THROAT TUBE BOOM							
Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation				
			Side Frames Extended			Side Frames Retracted	
			AB CTWT (lb)	CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A 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 – 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)	CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A 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 – 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)	CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A 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 – 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)	CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A 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				

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)	CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A 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				

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Jib Capacities

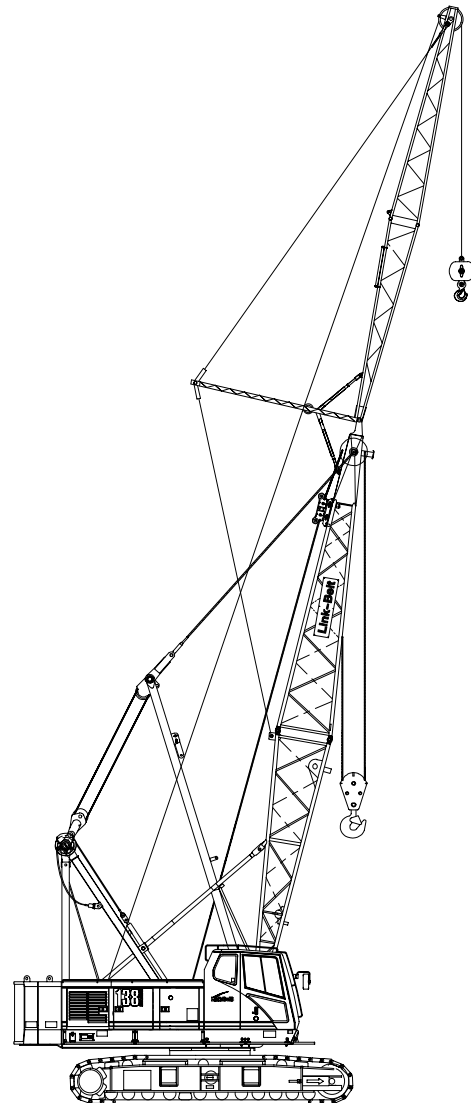
Lattice Boom Crawler Crane

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



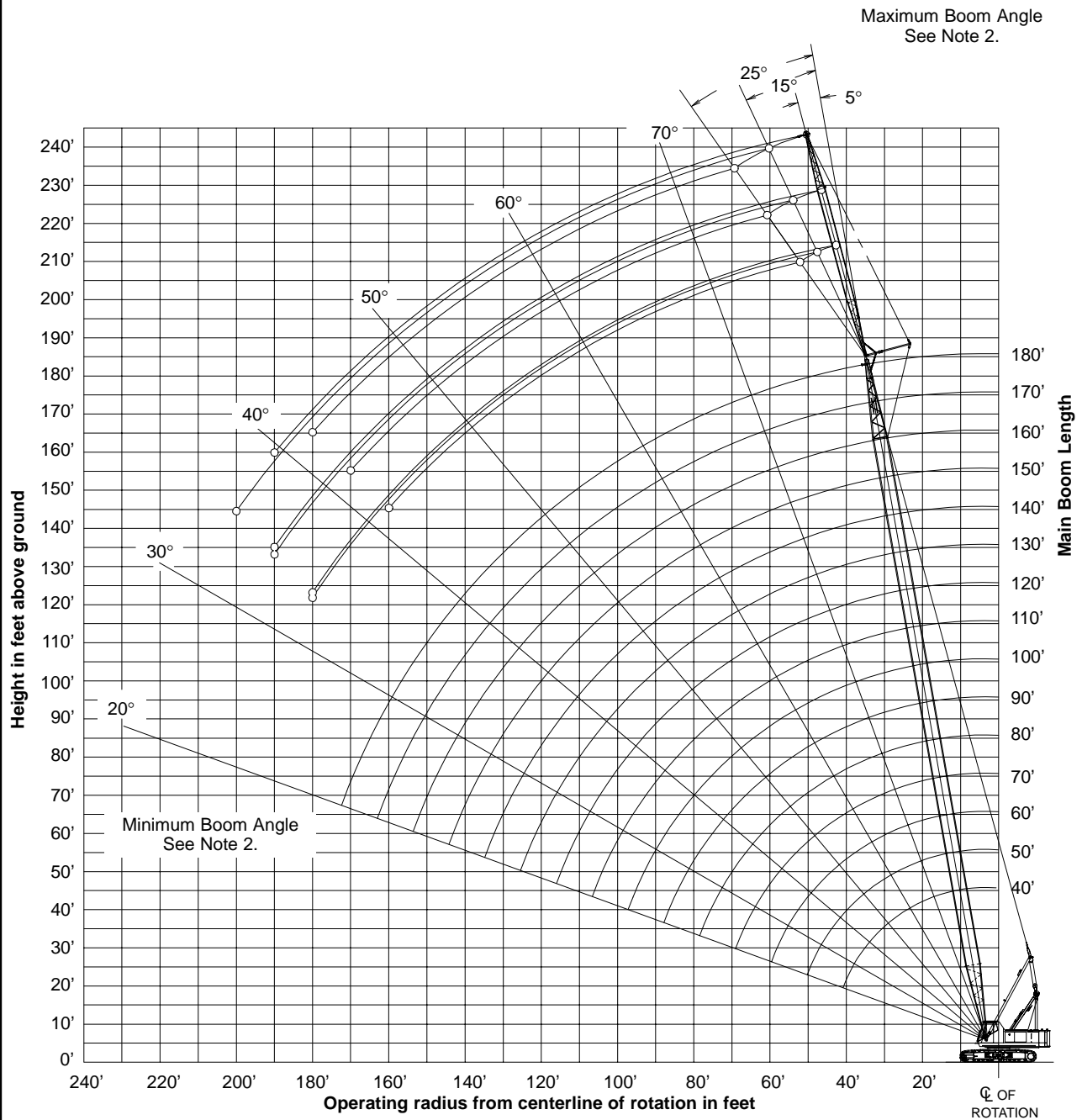
CAUTION: This material is supplied for reference use only. Operator must refer to in-cab Crane Rating Manual to determine allowable crane lifting capacities and operating procedures.

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



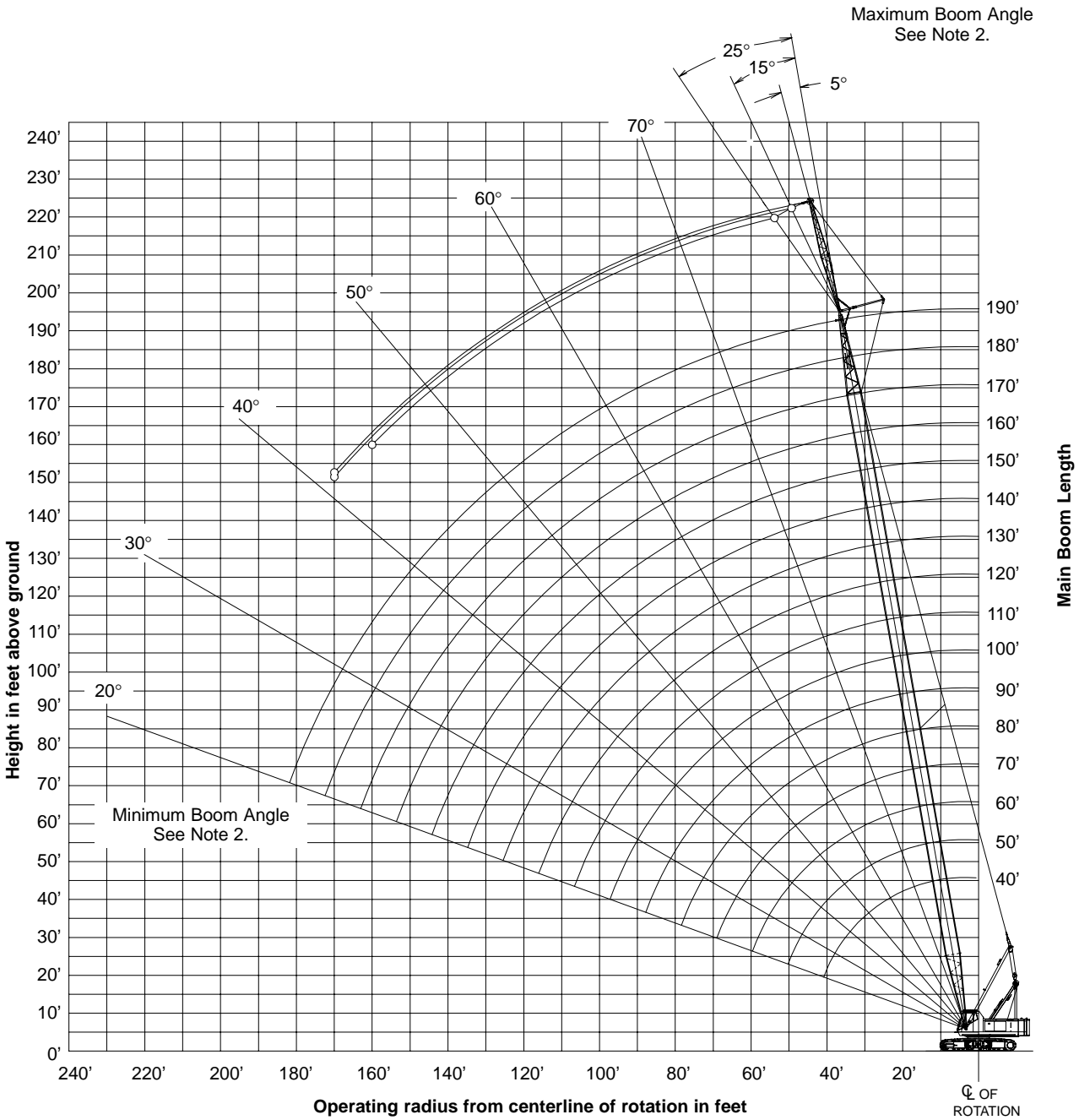
Notes:

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" Cwt

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 Degrees				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" Cwtw

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 Degrees				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" Cwt

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 Degrees				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" Cwt

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 Degrees				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" Cwt

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 Degrees				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" Cwt

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 Degrees				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" Ctw

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 Degrees				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" Cwt

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 Degrees				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" Cwtw

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 Degrees				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" Ctw

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 Degrees				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" Cwt

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 Degrees				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" Cwt

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 Degrees				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" Cwtw

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 Degrees				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" Cwtw

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 Degrees				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" Cwtw

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 Degrees				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" Cwtw

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 Degrees				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" Cwtw

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 Degrees				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" Cwtw

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 Degrees				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" Cwtw

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 Degrees				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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Jib Capacities

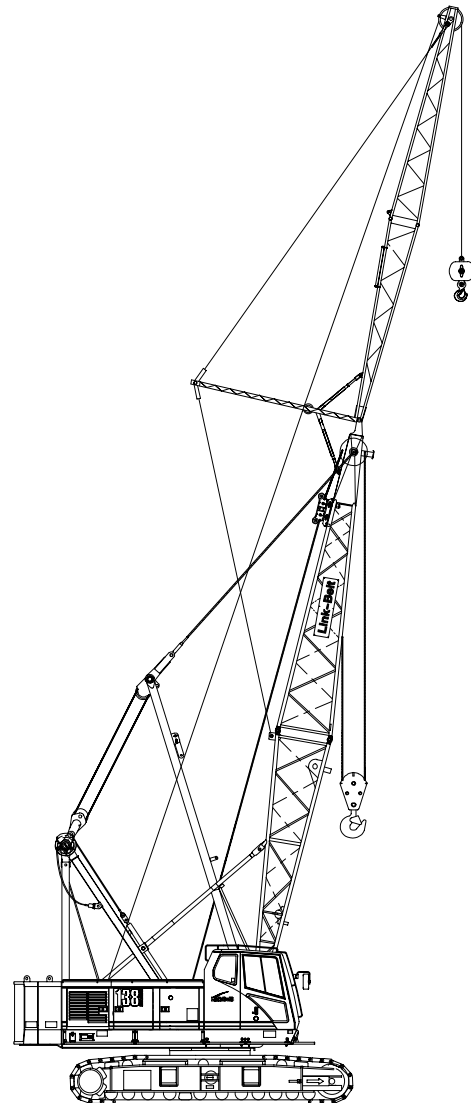
Lattice Boom Crawler Crane

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



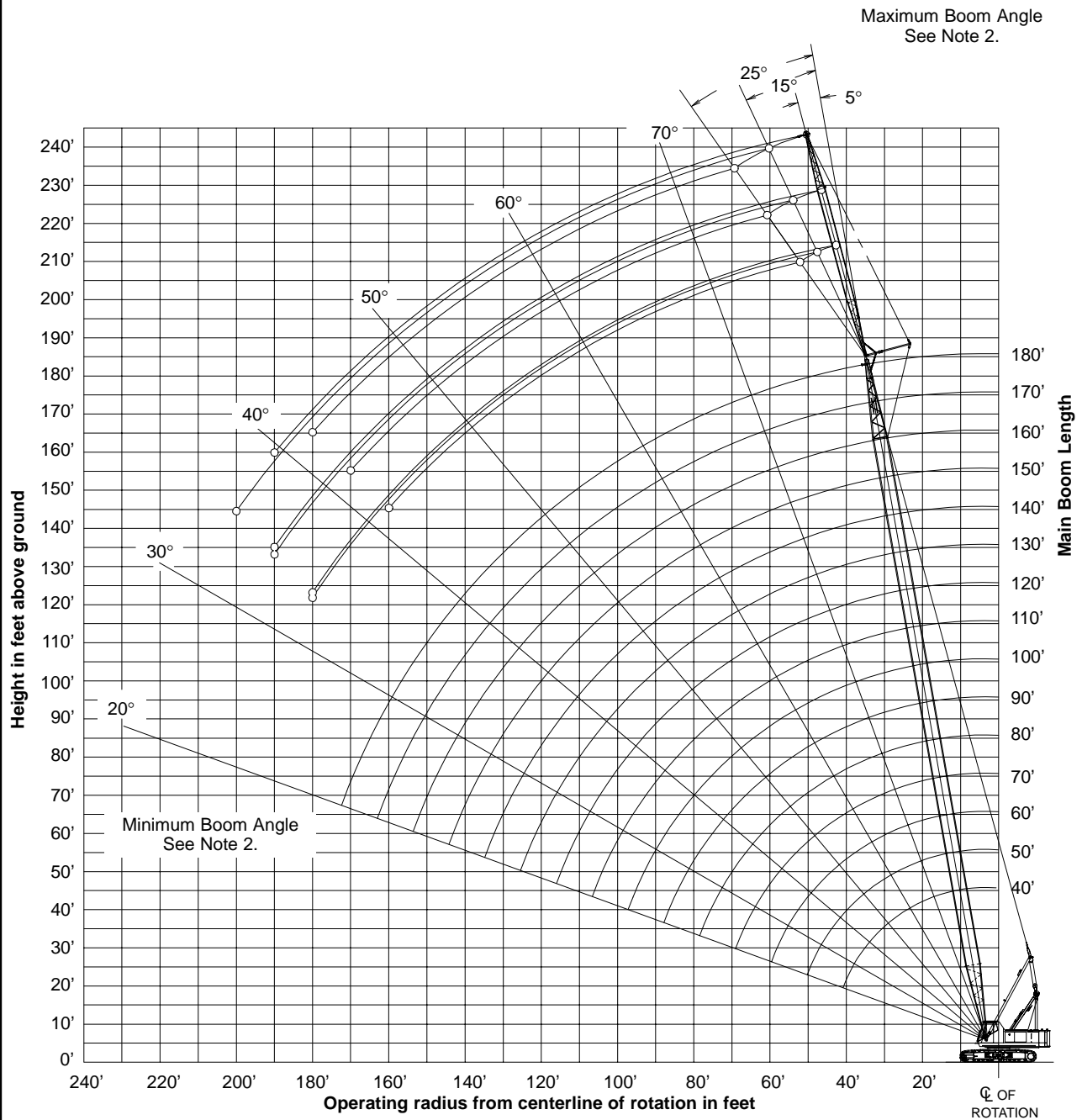
CAUTION: This material is supplied for reference use only. Operator must refer to in-cab Crane Rating Manual to determine allowable crane lifting capacities and operating procedures.

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



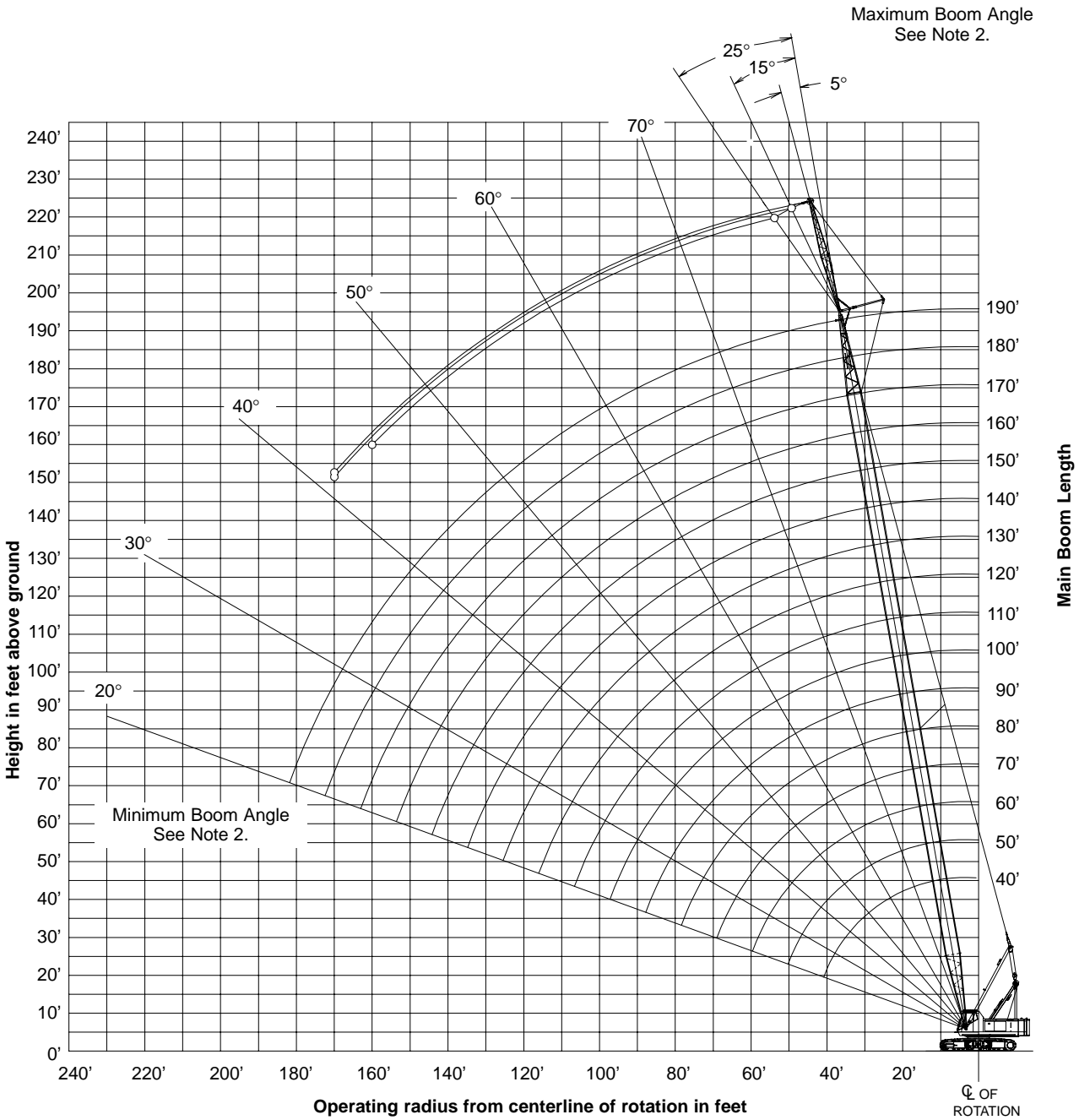
Notes:

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" Cwt

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 Degrees				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" Cwt

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 Degrees				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" Cwt

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 Degrees				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" Cwt

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 Degrees				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" Cwt

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 Degrees				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" Cwt

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 Degrees				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" Cwtw

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 Degrees				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" Cwt

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 Degrees				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" Cwtw

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 Degrees				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" Ctw

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 Degrees				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" Cwt

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 Degrees				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" Cwt

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 Degrees				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" Cwtw

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 Degrees				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" Cwtw

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 Degrees				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" Cwtw

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 Degrees				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" Cwt

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 Degrees				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" Cwtw

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 Degrees				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" Ctw

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 Degrees				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" Cwtw

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 Degrees				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

