

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

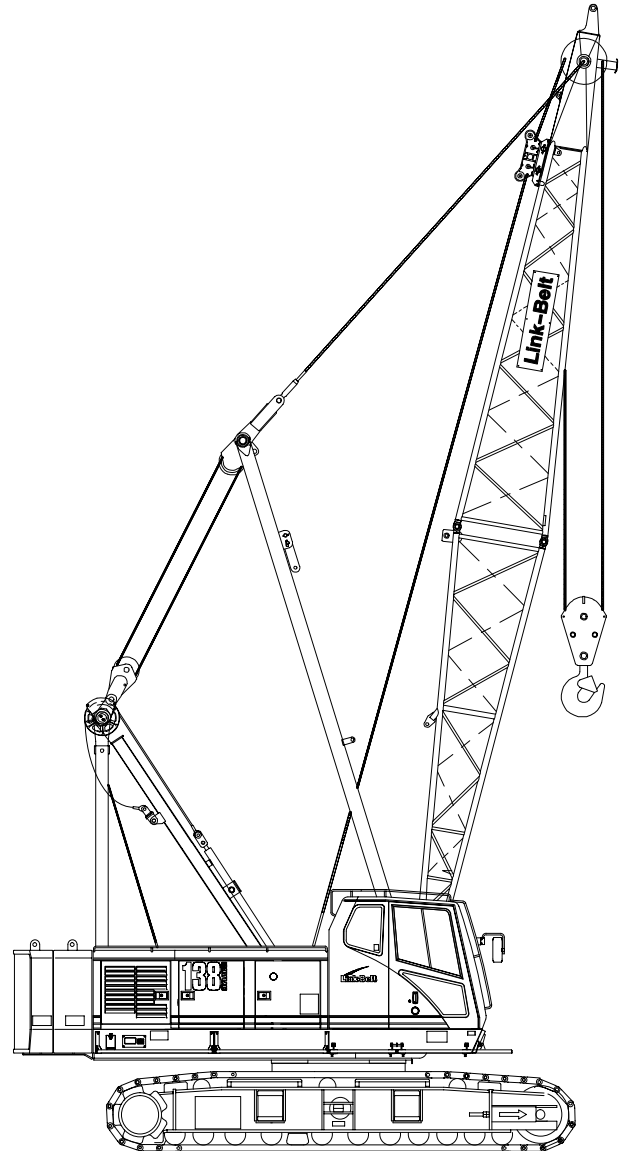
5' (1.52m) Tip Extension

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 "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.
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:

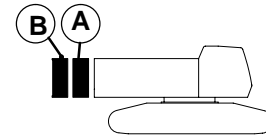
1. Capacities shown are in pounds and are not more than 75% of the tipping loads with the crane standing level on firm supporting surface. A deduction must be made from these capacities for weight of hook block, hook ball, sling, grapple, load weighing device (other than those supplied with the crane), 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

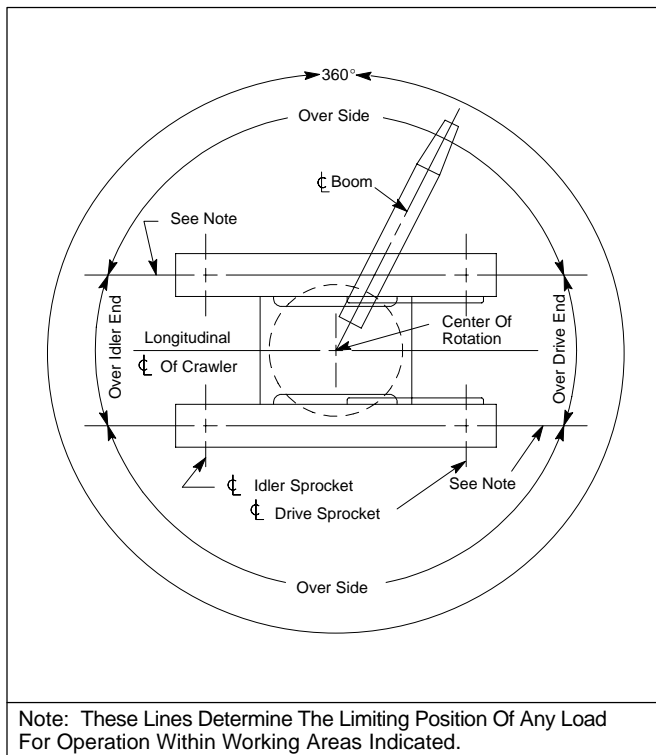
Parts of Line	7/8"		5/8"		Notes
	Type "DB"	Type "RB"	Type "ZB"	Type "WB"	
1	22,700	17,520 *	11,000 **	13,650 *	Capacities shown are in pounds and working loads must not exceed the ratings on the capacity charts in the Crane Rating Manual. Study Operator's Manual for wire rope inspection procedures and 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:

- For maximum stability, booms must be erected or lowered over the end with no load – hook block on ground.
- Crane on firm and level surface.
- gantry pins must be installed when the gantry is in the lowered position.
- For 150' 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

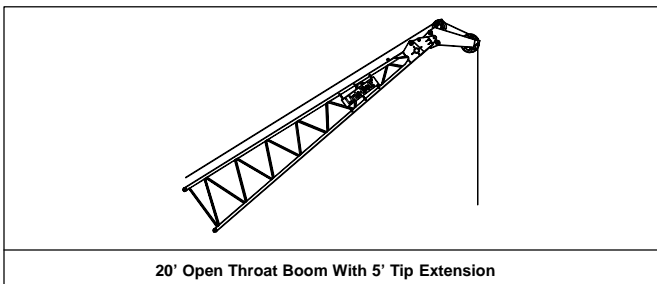
MAXIMUM ALLOWABLE CAPACITIES FOR 5' TIP EXTENSION

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.

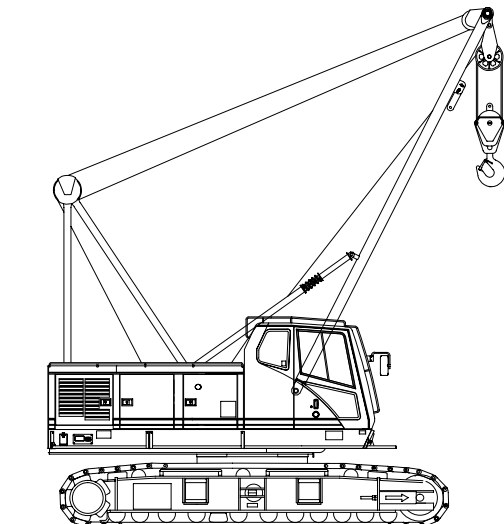


LIVE MAST LIFTING CAPACITIES (WITHOUT COUNTERWEIGHT INSTALLED)

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.

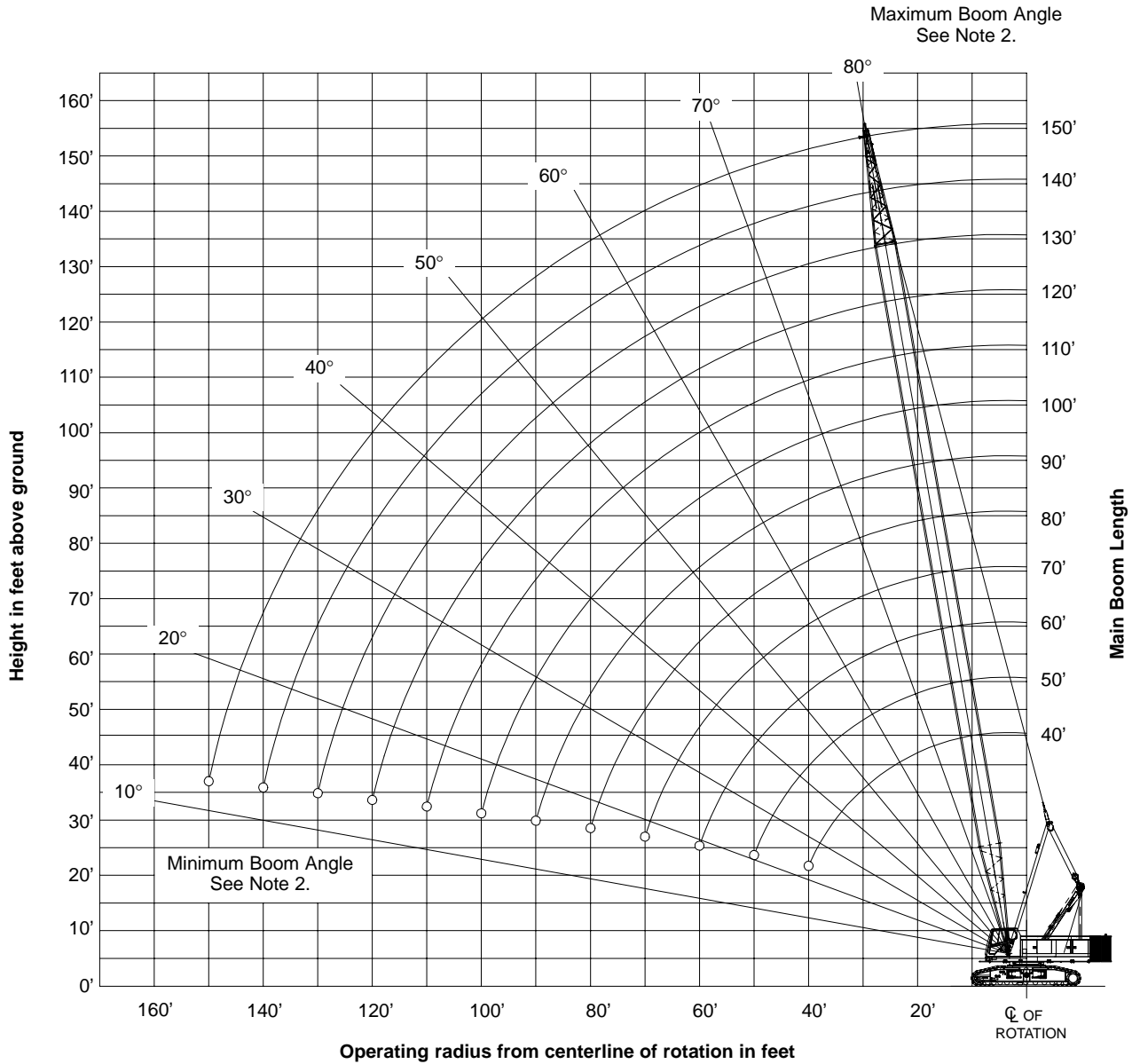
DUTY CYCLE CAPACITIES – ANGLE BOOM

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

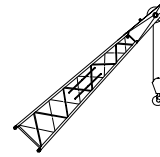
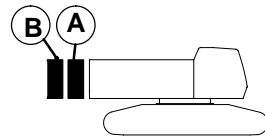
WORKING RANGE DIAGRAM

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.

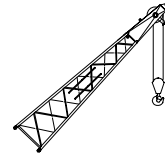
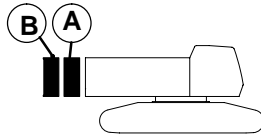


MAIN BOOM CAPACITIES – 40 FT OPEN THROAT ANGLE BOOM								
Load Radius (ft)	Boom Angle (deg)	Over End Blocked	360° Rotation					
			Side Frames Extended			Side Frames Retracted		
			AB CTWT (lb)	AB CTWT (lb)	A CTWT (lb)	0 CTWT (lb)	A CTWT (lb)	0 CTWT (lb)
8.9	82.0	160,000	160,000	160,000	160,000	160,000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

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

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

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