

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227
GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

Link-Belt
CONSTRUCTION EQUIPMENT

Lifting Capacities

Hydraulic Lattice Boom Crawler Crane

LS-278H

250-ton (227 metric ton)

Tube Boom Capacities

60–330 ft. (18.29 – 100.58 m)

35 ft. (10.67 m) Live Mast Capacities

- On Outrigger Jacks
- On Side Frames

10 ft. (3.05 m) Extension Lifting Capacities

- On Outrigger Jacks
- On Side Frames

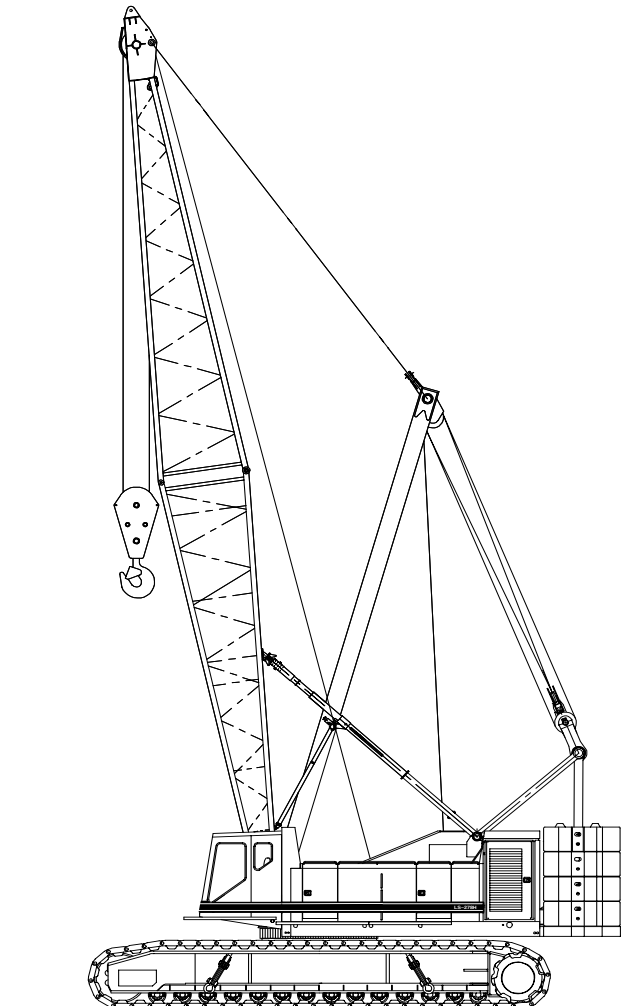
5 ft. (1.52 m) Auxiliary Tip Section

Duty Cycle Capacities

- 60 – 120 ft. (18.29 – 36.58 m)
- Clamshell / Magnet with 31K + 0 or 83K + 0 Counterweight

Tube Boom Capacities

- 60 – 330 ft. (18.29 – 100.58 m)
- 80 in. (2.03 m) Wide x 68 in. (1.72 m) Deep Boom
- 30 ft. (9.14 m) Open Throat Top Section
- 135K + LWR, 135K + 0, 83K + 0 and 31K + 0 Counterweight Combinations
- 360 degree and Blocked Over End
- 30 ft., 5 in. (9.27 m) Crawler Length



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



A.I.S.C. Certified Erector



PCI P.C.I. Qualified Erector

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

**WARNING**

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

OPERATING INSTRUCTIONS**GENERAL:**

1. Rated lifting capacities in pounds as shown on lift charts pertain to this crane as originally manufactured and normally equipped. Modifications to the crane or use of optional equipment other than that specified can result in a reduction of capacity.
2. Construction equipment can be dangerous if improperly operated or maintained. Operation and maintenance of this crane must be in compliance with the information in the Operator's, Parts and Safety Manuals supplied with this crane. If these manuals are missing, order replacements through the distributor.
3. The operator and other personnel associated with this crane shall read and fully understand the latest applicable American National Standards Institute (ANSI) safety standards for cranes.
4. All capacities listed in this book are in compliance with ASME/ANSI B30.5b-1991, SAE J987-April 1994, and SAE J765-October 1990.
6. The 35 ft. live mast must be used for all capacities in this Crane Rating Manual.
7. The least stable rated condition is over the side.
8. Booms may be erected and lowered over the end or over the side.
9. Do not operate at radii and boom lengths where the Crane Rating Manual lists no capacity. Do not use longer booms than those listed in this Crane Rating Manual. Any of the above can cause a tipping condition or boom failure.
10. Avoid excessive travel with lower counterweights installed on crane. Doing so may cause decreased travel torque and/or excessive wear to drive components.
11. These capacities apply only to the crane as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.

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 ft. tip extension is attached, reduce capacities by values shown on Capacity Deductions For Lifting Off Main Boom Hook With 5 ft. Tip Extension Installed. See Operator's Manual for all limitations when raising or lowering attachment.
2. The crane capacities in the shaded areas are based on structural strength. The crane capacities in the non-shaded areas are based on stability 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. Rated lifting capacities are based on correct reeving. Deduction must be made for excessive reeving. Any reeving over minimum required (see Wire Rope Capacity) is considered excessive and must be accounted for when making lifts. Use working range diagram to estimate the extra feet of rope then deduct 2.4 lbs. for each extra foot of wire rope before attempting to lift a load.
4. Load ratings in this Crane Rating Manual are based on freely suspended loads and make no allowances for such factors as the effect of the wind, ground conditions, and operating speeds. The operator shall therefore reduce load ratings in order to take these conditions into account.
5. Rated lifting capacities do not account for the effects of wind on a suspended load or boom. Lifting capacities should be considered acceptable for wind speeds less than 20 mph and appropriately reduced for wind speeds greater than 20 mph. Extreme caution should be used when lifting heavy loads or loads with large wind sail area under high wind conditions (over 20 mph).

FOR OVER END CAPACITIES ONLY:

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

TRAVELING WITH A LOAD:

1. All 360° Rotation capacities listed in this Crane Rating Manual are pick and carry capacities.
2. The boom must be pointing straight over one end of the crawler lower. If the load was lifted over the side, swing the load over the end and/or if the load was lifted at a long radius and the load is at or near capacity for that radius, boom up to obtain a greater lifting capacity before beginning travel.
3. Engage the swing lock and apply swing brake.
4. Travel slowly and cautiously on a firm and level supporting surface.

DEFINITIONS:

1. Load Radius: Horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of the vertical hoist line or tackle with load applied.
2. Boom Angle: The angle between the boom base section and horizontal with freely suspended load at the rated radius.
3. Working Area: Area measured in a circular arc about the center line of rotation as shown on the Working Area Diagram.
4. Freely Suspended Load: Load hanging free with no direct external force applied except by the hoist line.
5. Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.

**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

Link-Belt
CONSTRUCTION EQUIPMENT**WIRE ROPE CAPACITY**

Parts of Line	1"			
	Type N	Type P	Type LB	Type RB
1	29,500	16,800	32,500	22,700*
2	59,000	33,600	65,000	45,400
3	88,500	50,400	97,500	68,100
4	118,000	67,200	130,000	90,800
5	147,500	84,000	162,500	113,500
6	177,000	100,800	195,000	136,200
7	206,500	117,600	227,500	158,900
8	236,000	134,400	260,000	181,600
9	265,500	151,200	292,500	204,300
10	295,000	168,000	325,000	227,000
11	324,500	184,800	357,500	249,700
12	354,000	201,600	390,000	272,400
13	383,500	218,400	422,500	295,100
14	413,000	235,200	455,000	317,800

Parts of Line	1-1/8"				
	Type N	Type P	Type LB	Type RB	Type SB
1	37,100	21,200	40,800	28,600*	52,400
2	74,200	42,400	81,600	57,200	104,800
3	111,300	63,600	122,400	85,800	157,200
4	148,400	84,800	163,200	114,400	209,600
5	185,500	106,000	204,000	143,000	262,000
6	222,600	127,200	244,800	171,600	314,400
7	259,700	148,400	285,600	200,200	366,800
8	296,800	169,600	326,400	228,800	419,200
9	333,900	190,800	367,200	257,400	471,600
10	371,000	212,000	408,000	286,000	524,000
11	408,100	233,200	448,800	314,600	576,400
12	445,200	254,400	489,600	343,200	628,800
13	482,300	275,600	530,400	371,800	681,200
14	519,400	296,800	571,200	400,400	733,600

LBCE Type	Description
N	6 X 25 (6X19 Class) – Filler Wire – Extra Improved Plow Steel – Preformed – I.W.R.C. – Right Lay – Regular Lay
P	19 X 7 Rotation Resistant – Extra Improved Plow Steel – Preformed – Wire Center Core
LB	6 X 25 (6 X 19 Class) – Filler Wire – Preformed – I.W.R.C. – Right Lay – Regular Lay – Compacted Strands
RB*	19 X 19 Rotation Resistant – Extra, Extra Improved Plow Steel – Preformed Right Lay – Regular Lay. Swaged
SB*	8 Strand Rope – Parallel Lay Construction – Compacted Strand – Right Lay – Regular Lay

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

Notes:

- Capacities shown are in pounds and working loads must not exceed the ratings on the capacity charts in this Crane Rating Manual.
- Study Operator's Manual for wire rope inspection procedures.

LIFTOFF CAPABILITIES

Counterweight	Over End Blocked (see note 3)	
	Maximum Boom (ft)	Max. Boom + Jib (ft)
135K + LWR	330	300 + 100
135K + 0	310	N/A
83K + 0	270	N/A
31K + 0	220	N/A

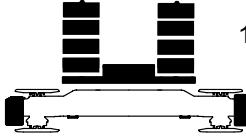
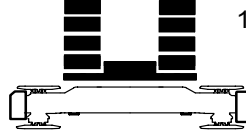
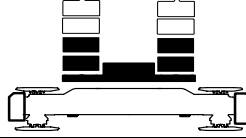
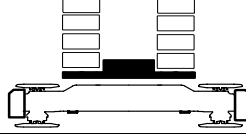
Counterweight	Over Side	
	Maximum Boom (ft)	Max. Boom + Jib (ft)
135K + LWR	310	270 + 100
135K + 0	300	N/A
83K + 0	250	N/A
31K + 0	200	N/A

Notes:

- For maximum stability, booms should be erected or lowered over the end with no load hook block on ground.
- Crane must be standing level on a firm supporting surface.
- Adequate blocking must be placed under the side frame sprockets/idlers to prevent rocking during liftoff over end.
- Open throat booms 250 ft. and longer require mid-point suspension pendants.
- Counterweight combinations are in "kips" (1 kip = 1000 lbs.)

ALLOWABLE COUNTERWEIGHT COMBINATIONS

Counterweight combinations are in kips (1 kip = 1000 lbs.)

	135,000 lbs. Upper Counterweight Full Lower Counterweight 135K+LWR
	135,000 lbs. Upper Counterweight No Lower Counterweight 135K+0
	83,000 lbs. Upper Counterweight No Lower Counterweight 83K+0
	31,000 lbs. Upper Counterweight No Lower Counterweight 31K+0

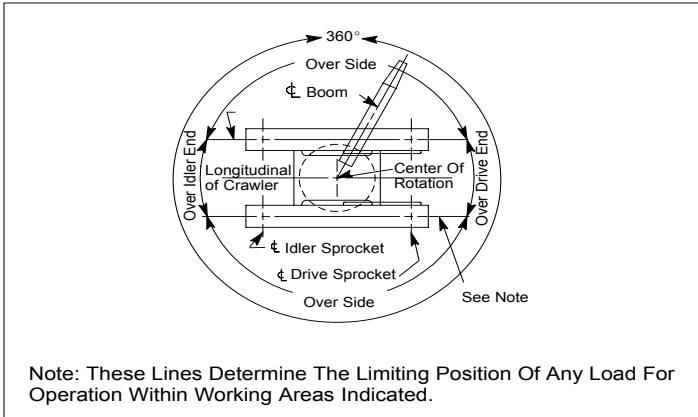
**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

Link-Belt
CONSTRUCTION EQUIPMENT**WORKING AREAS****LIVE MAST LIFTING CAPACITIES
(WITHOUT COUNTERWEIGHT INSTALLED)**

Live Mast		On Jacks (lb)	On Side Frames (lb)
Radius (ft)	Angle (deg)		
10.5	77.1	65,000	65,000
12	74.5	65,000	65,000
13	72.8	65,000	65,000
14	71.1	65,000	65,000
15	69.4	63,200	65,000
16	67.6	56,900	65,000
17	65.8	51,700	65,000
18	64.0	47,300	65,000
19	62.2	43,600	65,000
20	60.3	40,500	65,000
22	56.5	35,200	65,000
24	52.4	31,000	65,000
26	48.2	27,700	65,000
28	43.6	24,900	65,000
30	38.7	22,600	65,000
35	22.5	18,200	62,600

NOTES:

1. Refer to the Operator's Manual.
2. Live mast backstops must be in position and operative.
3. Hoist rope must contain 3 parts of 1in. diameter wire rope.
4. Use rear drum only. Reeve hoist line over mast cross member.
5. Capacities on jacks based on 85% stability. Capacities on side frames based on 75% stability.
6. Cast upper counterweights may only be picked in stacks of two (2). Maximum allowable load on counterweight handling bars = 26,000 lbs.
7. The crane shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the pontoons, when on jacks, spread the load to a larger bearing surface.
8. Rated capacities for 360° rotation.

**WARNING**

Do not install counterweights onto upper while crane is on carbody jack cylinders. Side frames must be installed and set before installing the counterweights.

**10 FT. EXTENSION WITH LIFTING
SHEAVES CAPACITIES – 360°**

Load Radius (ft)	Boom Angle (deg)	On Jacks Without Cwt (lb)	On Side Frames With or Without Cwt (lb)
10.5	81.8	65,000	65,000
11	80.9	65,000	65,000
12	79.3	65,000	65,000
13	77.6	65,000	65,000
14	75.9	65,000	65,000
15	74.3	65,000	65,000
16	72.6	58,700	65,000
17	70.9	52,900	65,000
18	69.1	48,000	65,000
19	67.4	43,800	65,000
20	65.6	40,200	65,000
21	63.8	37,100	65,000
22	61.9	34,300	65,000
23	60.1	31,800	65,000
24	58.1	29,600	65,000
25	56.2	27,600	65,000
26	54.1	25,800	65,000
27	52.1	24,100	65,000
28	49.9	22,600	65,000
29	47.7	21,300	65,000
30	45.4	20,000	65,000
31	42.9	18,800	65,000
32	40.3	17,700	65,000
33	37.6	16,700	65,000
34	34.7	15,700	63,500
35	31.5	14,800	60,500
36	27.9	13,900	57,800

NOTES:

1. Refer to the Operator's Manual and Crane Rating Manual.
2. Reeve front or rear hoist line under mast cross member.
3. Capacities on jacks based on 85% stability. Capacities on side frames based on 75% stability.
4. The crane shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the pontoons, when on jacks, to spread the load to a larger bearing surface.
5. Cast upper counterweights may only be picked in stacks of two (2). Maximum allowable load on counterweight handling bars = 26,000 lbs.

**WARNING**

Do not install counterweights onto upper while crane is on carbody jack cylinders. Side frames must be installed and set before installing the counterweights.

**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

Link-Belt
CONSTRUCTION EQUIPMENT**DUTY CYCLE OPERATION NOTES FOR TUBULAR BOOM**

1. The capacities included in the following chart are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
2. Capacities are based on 75% of minimum tipping loads for dragline; 67.5% for clamshell and magnet.
3. Capacities are maximum recommended by PCSA Standard #4. User must make allowances for soft or uneven supporting surfaces, rapid cycle operations, bucket suction or other unfavorable conditions which may require smaller buckets for most efficient operation.
4. Weight of bucket, plus load must not exceed these capacities.
5. Dragline operation is not recommended with boom angles less than 35°.
6. Boom length for dragline/clamshell attachment operation should not exceed 120'.
7. Retractable high gantry must be fixed in raised position for all capacities on this chart.
8. These capacities apply to the machine as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.

DUTY CYCLE CAPACITIES FOR TUBULAR BOOM
(All capacities are listed in pounds)

Boom Length (ft)	Load Radius (ft)	Boom Angle (deg)	83K + 0		31K + 0	
			Dragline	Clamshell Magnet	Dragline	Clamshell Magnet
60	20	73.7	—	34,500	—	34,500
60	25	68.7	—	34,500	—	34,500
60	30	63.4	—	34,500	—	34,500
60	35	58.0	34,500	34,500	34,500	34,500
60	40	52.1	34,500	34,500	34,500	34,500
60	50	38.7	34,500	34,500	34,500	34,500
60	60	18.7	—	34,500	—	34,500
70	20	76.1	—	34,500	—	34,500
70	25	71.8	—	34,500	—	34,500
70	30	67.5	—	34,500	—	34,500
70	35	63.0	—	34,500	—	34,500
70	40	58.3	34,500	34,500	34,500	34,500
70	50	48.0	34,500	34,500	34,500	34,500
70	60	35.7	34,500	34,500	34,500	34,500
70	70	17.3	—	34,500	—	28,200
80	20	77.9	—	34,500	—	34,500
80	25	74.2	—	34,500	—	34,500
80	30	70.4	—	34,500	—	34,500
80	35	66.6	—	34,500	—	34,500
80	40	62.6	—	34,500	—	34,500
80	50	54.2	34,500	34,500	34,500	34,500
80	60	44.7	34,500	34,500	34,500	34,500
80	70	33.3	—	34,500	—	28,500
80	80	16.2	—	34,500	—	23,100
90	20	79.2	—	34,500	—	34,500
90	25	76.0	—	34,500	—	34,500
90	30	72.7	—	34,500	—	34,500
90	35	69.3	—	34,500	—	34,500
90	40	65.8	—	34,500	—	34,500
90	50	58.6	34,500	34,500	34,500	34,500
90	60	50.8	34,500	34,500	34,500	34,500
90	70	42.0	34,500	34,500	32,200	28,900
90	80	31.4	—	34,500	—	23,600
90	90	15.2	—	31,600	—	19,400

Boom Length (ft)	Load Radius (ft)	Boom Angle (deg)	83K + 0		31K + 0	
			Dragline	Clamshell Magnet	Dragline	Clamshell Magnet
100	20	80.3	—	34,500	—	34,500
100	25	77.4	—	34,500	—	34,500
100	30	74.4	—	34,500	—	34,500
100	35	71.4	—	34,500	—	34,500
100	40	68.4	—	34,500	—	34,500
100	50	62.1	—	34,500	—	34,500
100	60	55.4	34,500	34,500	34,500	34,500
100	70	48.1	34,500	34,500	32,200	28,900
100	80	39.8	34,500	34,500	26,200	23,600
100	90	29.7	—	31,700	—	19,500
100	100	14.5	—	27,100	—	16,300
110	20	81.2	—	34,500	—	34,500
110	25	78.6	—	34,500	—	34,500
110	30	75.9	—	34,500	—	34,500
110	35	73.2	—	34,500	—	34,500
110	40	70.4	—	34,500	—	34,500
110	50	64.8	—	34,500	—	34,500
110	60	58.9	34,500	34,500	34,500	34,500
110	70	52.6	34,500	34,500	32,100	28,900
110	80	45.7	34,500	34,500	26,100	23,500
110	90	37.9	34,500	31,700	21,700	19,500
110	100	28.3	—	27,200	—	16,300
110	110	13.8	—	23,400	—	13,700
120	20	81.9	—	34,500	—	34,500
120	25	79.5	—	34,500	—	34,500
120	30	77.1	—	34,500	—	34,500
120	35	74.6	—	34,500	—	34,500
120	40	72.1	—	34,500	—	34,500
120	50	67.0	—	34,500	—	34,500
120	60	61.7	—	34,500	—	34,500
120	70	56.2	34,500	34,500	32,000	28,800
120	80	50.2	34,500	34,500	26,000	23,400
120	90	43.6	34,500	31,600	21,500	19,400
120	100	36.2	30,100	27,100	18,000	16,200
120	110	27.1	—	23,400	—	13,700
120	120	13.2	—	20,400	—	11,500

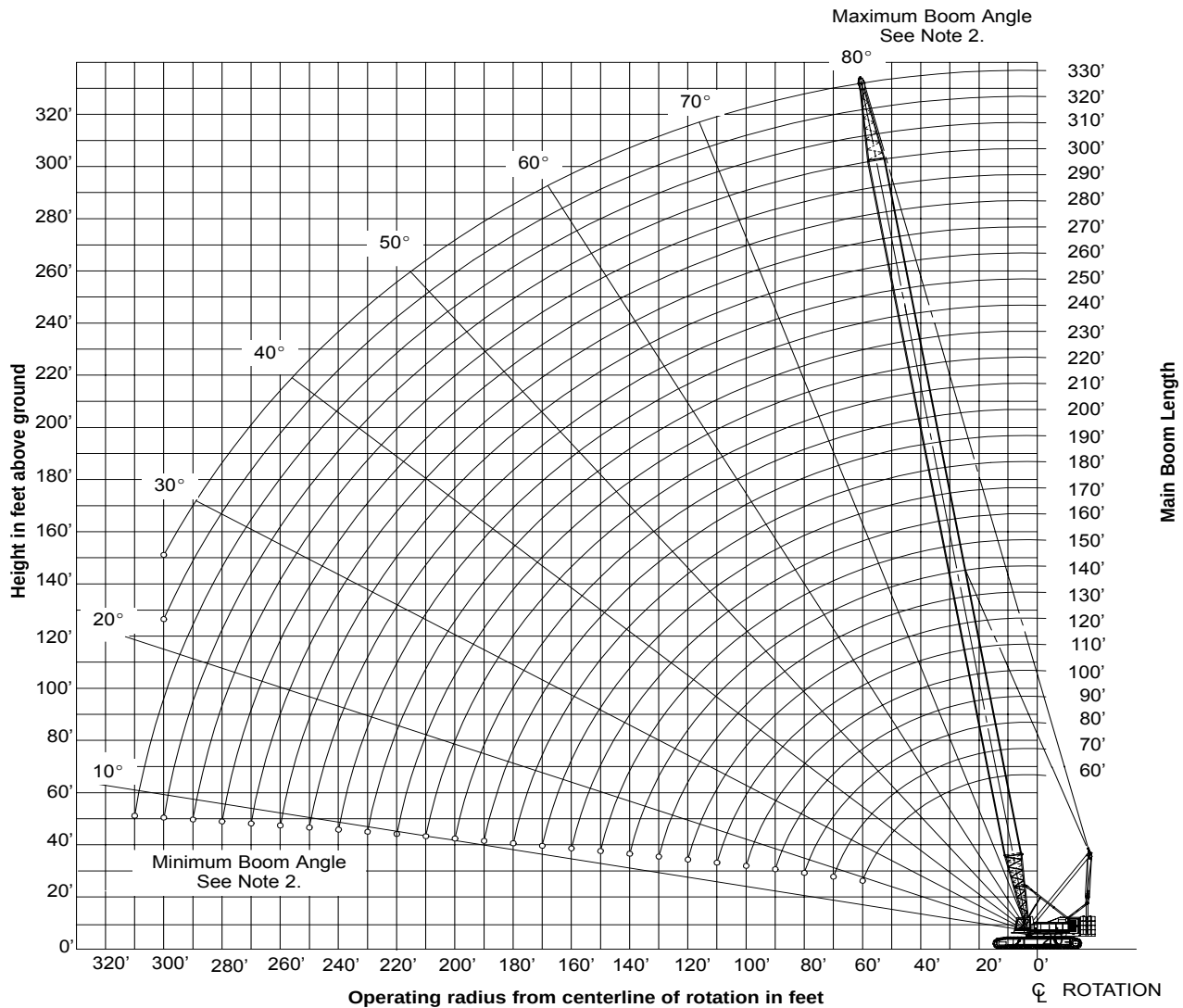
**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

**WORKING RANGE DIAGRAM****60 TO 330 FT. 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.



A.I.S.C. Certified Erector



PCI P.C.I. Qualified Erector

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

Link-Belt
CONSTRUCTION EQUIPMENT**CAPACITY DEDUCTIONS FOR LIFTING OFF
MAIN BOOM HOOK WITH JIB INSTALLED
(OPEN THROAT BOOM ONLY)**

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

Jib Length (ft)	Capacity Deduction (lbs)
30	2,600
40	3,000
50	3,400
60	3,800
70	4,200
80	4,600
90	5,000
100	5,400

**CAPACITY DEDUCTIONS FOR LIFTING OFF
MAIN BOOM HOOK WITH 5-FT TIP
EXTENSION INSTALLED**

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

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

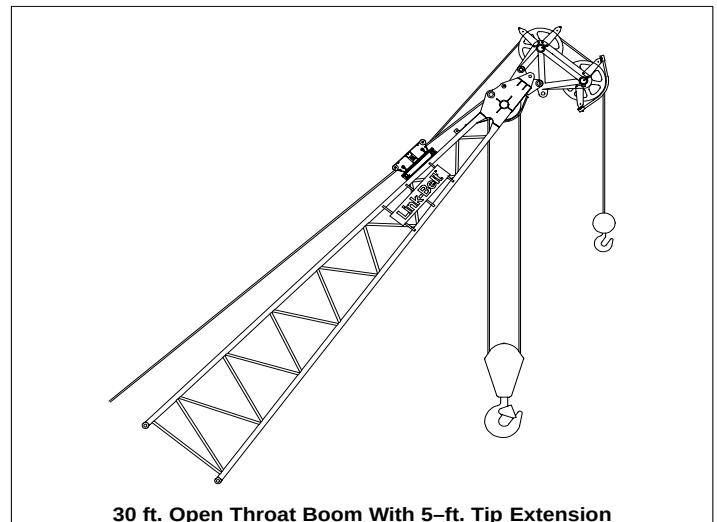
**MAXIMUM ALLOWABLE CAPACITIES
FOR 5-FT TIP EXTENSION**

LIFTING CAPACITY TO BE THE SMALLEST OF THE FOLLOWING VALUES:

1. 50,000 lbs. (Maximum).
2. The standard crane lift capacity minus 1,100 lbs. for the boom length, tip extension load radius, and counterweight configuration in use on the crane.

NOTES:

1. All notes are to be adhered to as listed on the standard lift crane capacity charts.
2. Reduce the main boom lift capacities by 1,100 lbs. when the tip extension is installed.
3. The maximum boom length on which the tip extension can be installed is 300 ft.
4. Do not lift or suspend a load from the boom tip extension and main boom at the same time.



30 ft. Open Throat Boom With 5-ft. Tip Extension

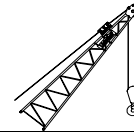
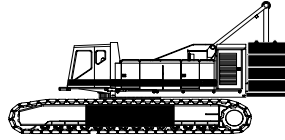
**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

Link-Belt
CONSTRUCTION EQUIPMENT**Note: Refer to page 7 for “Capacity Deductions” caused by any jib attachment or tip extension.****Main Boom Capacities – 60 Ft. – Open Throat Boom**

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+ LWR (lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
12	81.5	500,000	500,000	500,000	439,600	500,000	500,000
13	80.6	500,000	500,000	470,400	406,200	500,000	500,000
14	79.6	496,900	496,900	437,200	377,300	496,900	496,900
15	78.6	464,100	464,100	408,200	352,200	464,100	464,100
16	77.6	435,300	435,300	382,800	330,200	435,300	435,300
17	76.7	409,800	409,800	360,200	310,600	409,800	409,800
18	75.7	387,000	387,000	340,100	293,200	387,000	387,000
19	74.7	366,600	366,600	322,100	270,200	366,600	366,600
20	73.7	348,100	348,100	305,800	241,000	348,100	348,100
25	68.7	277,700	277,700	229,700	155,400	277,700	277,700
30	63.4	230,300	224,200	168,900	113,700	230,300	230,300
35	58.0	191,000	176,900	132,900	89,000	196,300	196,300
40	52.1	157,400	145,600	109,100	72,600	170,700	170,700
50	38.7	115,500	106,700	79,500	52,200	134,600	131,900
60	18.7	90,400	83,400	61,600	39,900	101,000	101,000

Main Boom Capacities – 80 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+ LWR (lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
14.3	82.0	433,400	433,400	425,500	367,300	433,400	433,400
15	81.5	428,000	428,000	405,900	350,200	428,000	428,000
16	80.8	421,300	421,300	380,700	328,400	421,300	421,300
17	80.0	407,600	407,600	358,300	309,000	407,600	407,600
18	79.3	385,000	385,000	338,400	291,700	385,000	385,000
19	78.6	364,700	364,700	320,500	272,400	364,700	364,700
20	77.9	346,400	346,400	304,300	242,900	346,400	346,400
25	74.2	276,300	276,300	230,700	156,400	276,300	276,300
30	70.4	229,100	224,700	169,500	114,200	229,100	229,100
35	66.6	191,300	177,200	133,200	89,200	195,200	195,200
40	62.6	157,500	145,800	109,200	72,700	167,200	167,200
50	54.2	115,500	106,700	79,500	52,200	128,500	128,500
60	44.7	90,400	83,400	61,700	39,900	103,200	102,100
70	33.3	73,700	67,900	49,800	31,700	84,300	82,600
80	16.2	61,700	56,700	41,200	25,700	69,600	68,800

Main Boom Capacities – 70 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+ LWR (lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
12.9	82.0	478,200	478,200	471,600	407,200	475,700	475,700
13	81.9	478,200	478,200	468,400	404,400	475,700	475,700
14	81.1	469,200	469,200	435,400	375,700	469,700	469,700
15	80.3	460,400	460,400	406,600	350,700	458,000	458,000
16	79.4	433,600	433,600	381,200	328,800	433,600	433,600
17	78.6	408,200	408,200	358,800	309,300	408,200	408,200
18	77.8	385,500	385,500	338,800	291,900	385,500	385,500
19	76.9	365,200	365,200	320,800	271,300	365,200	365,200
20	76.1	346,800	346,800	304,600	241,900	346,800	346,800
25	71.8	276,500	276,500	230,100	155,800	276,500	276,500
30	67.5	229,200	224,300	169,000	113,800	229,200	229,200
35	63.0	191,000	176,800	132,900	88,900	195,300	195,300
40	58.3	157,200	145,500	108,900	72,400	169,700	169,700
50	48.0	115,300	106,500	79,200	51,900	132,300	131,800
60	35.7	90,200	83,200	61,400	39,600	105,500	101,800
70	17.3	73,400	67,600	49,500	31,300	84,200	82,200

Main Boom Capacities – 90 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+ LWR (lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
15.7	82.0	409,500	409,500	389,000	335,900	409,500	409,500
16	81.8	407,000	407,000	381,600	329,400	407,000	407,000
17	81.2	401,900	401,900	359,200	310,000	401,900	401,900
18	80.5	385,800	385,800	339,300	292,700	385,800	385,800
19	79.9	365,500	365,500	321,400	275,600	365,500	365,500
20	79.2	347,200	347,200	305,200	245,800	347,200	347,200
25	76.0	277,100	277,100	232,600	158,300	277,100	277,100
30	72.7	229,900	226,100	170,900	115,600	229,900	229,900
35	69.3	192,500	178,300	134,300	90,400	195,900	195,900
40	65.8	158,400	146,700	110,200	73,700	170,300	170,300
50	58.6	116,200	107,400	80,200	52,900	134,300	132,900
60	50.8	91,000	84,000	62,200	40,500	110,100	102,700
70	42.0	74,200	68,400	50,300	32,200	90,700	83,100
80	31.4	62,200	57,200	41,700	26,200	75,800	69,300
90	15.2	53,000	48,700	35,100	21,600	64,600	58,900

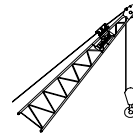
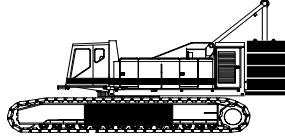
**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

Link-Belt
CONSTRUCTION EQUIPMENT**Main Boom Capacities – 100 Ft. – Open Throat Boom**

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+ LWR (lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
17.1	82.0	377,500	377,500	356,600	307,800	377,500	377,500
18	81.5	370,400	370,400	338,600	292,100	370,400	370,400
19	80.9	364,700	364,700	320,700	276,400	364,700	364,700
20	80.3	346,500	346,500	304,600	246,400	346,500	346,500
25	77.4	276,600	276,600	232,900	158,600	276,600	276,600
30	74.4	229,500	226,300	171,100	115,800	229,500	229,500
35	71.4	192,600	178,400	134,500	90,500	195,600	195,600
40	68.4	158,500	146,800	110,300	73,700	170,000	170,000
50	62.1	116,200	107,500	80,200	52,900	134,000	133,000
60	55.4	91,000	84,000	62,200	40,500	109,900	102,800
70	48.1	74,200	68,400	50,300	32,200	90,800	83,200
80	39.8	62,200	57,200	41,700	26,200	75,800	69,400
90	29.7	53,200	48,800	35,300	21,700	64,700	59,100
100	14.5	46,000	42,200	30,100	18,100	56,100	51,100

Main Boom Capacities – 120 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+ LWR (lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
19.9	82.0	319,300	319,300	305,200	251,000	319,300	319,300
20	81.9	318,300	318,300	303,100	247,400	318,300	318,300
25	79.5	275,400	275,400	233,400	159,100	275,400	275,400
30	77.1	228,600	226,500	171,300	116,000	228,600	228,600
35	74.6	192,600	178,500	134,500	90,600	194,800	194,800
40	72.1	158,500	146,700	110,200	73,700	169,300	169,300
50	67.0	116,100	107,300	80,000	52,800	133,400	133,000
60	61.7	90,800	83,800	62,000	40,300	109,300	102,700
70	56.2	74,000	68,200	50,100	32,000	90,600	83,000
80	50.2	62,000	57,000	41,500	26,000	75,700	69,200
90	43.6	53,000	48,600	35,100	21,500	64,600	59,000
100	36.2	46,000	42,100	30,100	18,000	56,000	51,100
110	27.1	40,300	36,900	26,000	15,200	49,200	44,700
120	13.2	35,600	32,500	22,600	12,800	43,600	39,500

Main Boom Capacities – 110 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K + LWR (lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K + LWR (lb)	135K + 0 (lb)
18.5	82.0	346,500	346,500	329,000	283,900	346,500	346,500
19	81.7	344,400	344,400	320,000	276,000	344,400	344,400
20	81.2	341,100	341,100	303,900	246,900	341,100	341,100
25	78.6	276,100	276,100	233,200	158,900	276,100	276,100
30	75.9	229,100	226,500	171,200	116,000	229,100	229,100
35	73.2	192,600	178,500	134,500	90,500	195,200	195,200
40	70.4	158,500	146,800	110,300	73,700	169,700	169,700
50	64.8	116,200	107,400	80,100	52,900	133,700	133,000
60	58.9	90,900	83,900	62,200	40,400	109,700	102,800
70	52.6	74,100	68,300	50,200	32,100	90,700	83,100
80	45.7	62,100	57,200	41,600	26,100	75,800	69,300
90	37.9	53,100	48,800	35,200	21,700	64,700	59,100
100	28.3	46,100	42,200	30,200	18,100	56,100	51,100
110	13.8	40,400	36,900	26,100	15,200	49,200	44,700

Main Boom Capacities – 130 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K + LWR (lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K + LWR (lb)	135K + 0 (lb)
21.3	82.0	296,200	296,200	284,300	217,700	296,200	296,200
25	80.3	274,700	274,700	233,500	159,200	274,700	274,700
30	78.1	228,000	226,200	171,300	116,100	228,000	228,000
35	75.8	192,600	178,500	134,500	90,500	194,300	194,300
40	73.5	158,400	146,700	110,100	73,600	168,800	168,800
50	68.9	116,000	107,200	79,900	52,600	133,000	132,900
60	64.1	90,600	83,600	61,900	40,100	108,900	102,600
70	59.1	73,800	68,000	49,900	31,800	90,500	82,900
80	53.8	61,800	56,800	41,300	25,800	75,500	69,100
90	48.1	52,800	48,500	34,900	21,400	64,400	58,800
100	34.7	45,800	41,900	29,900	17,900	55,900	50,900
110	37.9	40,200	36,700	25,900	15,100	49,100	44,600
120	26.0	35,600	32,400	22,600	12,700	43,500	39,500
130	12.7	31,600	28,700	19,700	10,700	38,800	35,100

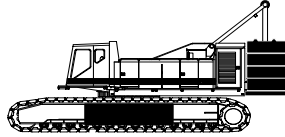
**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

Link-Belt
CONSTRUCTION EQUIPMENT**Main Boom Capacities – 140 Ft. – Open Throat Boom**

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+LWR (lb)	135K+0 (lb)
22.7	82.0	272,800	272,800	265,900	191,900	272,800	272,800
25	81.0	267,700	267,700	233,600	159,300	267,700	267,700
30	79.0	227,400	226,600	171,300	116,100	227,400	227,400
35	76.9	192,500	178,400	134,400	90,500	193,800	193,800
40	74.7	158,300	146,600	110,000	73,500	168,300	168,300
50	70.5	115,800	107,000	79,800	52,500	132,500	132,500
60	66.0	90,500	83,500	61,700	39,900	108,500	102,400
70	61.5	73,600	67,800	49,700	31,600	90,300	82,700
80	56.7	61,600	56,600	41,100	25,600	75,300	68,900
90	51.7	52,600	48,300	34,700	21,200	64,300	58,600
100	46.2	45,600	41,700	29,700	17,700	55,700	50,700
110	40.3	40,000	36,500	25,700	14,900	48,900	44,400
120	33.4	35,400	32,200	22,400	12,500	43,300	39,300
130	25.0	31,500	28,600	19,600	10,600	38,700	35,000
140	12.2	28,200	25,500	17,200	8,900	34,700	31,300

Main Boom Capacities – 160 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K + LWR (lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K + LWR(lb)	135K + 0 (lb)
25.4	82.0	234,200	234,200	226,700	154,500	234,200	234,200
30	80.3	226,100	226,100	171,200	116,000	226,100	226,100
35	78.5	192,400	178,200	134,200	90,300	192,600	192,600
40	76.7	158,000	146,300	109,800	73,200	167,300	167,300
50	73.0	115,400	106,700	79,400	52,100	131,600	131,600
60	69.2	90,000	83,000	61,300	39,500	107,600	102,100
70	65.3	73,200	67,300	49,200	31,100	89,900	82,300
80	61.3	61,100	56,100	40,600	25,100	74,900	68,400
90	57.1	52,100	47,800	34,200	20,700	63,800	58,200
100	52.8	45,100	41,200	29,200	17,200	55,200	50,300
110	48.1	39,500	36,000	25,200	14,400	48,400	44,000
120	43.1	34,900	31,700	21,900	12,100	42,900	38,800
130	37.6	31,100	28,200	19,200	10,100	38,300	34,600
140	31.2	27,800	25,100	16,800	8,500	34,400	31,000
150	23.4	25,000	22,500	14,800	7,000	31,000	27,900
160	11.4	22,500	20,200	12,900	5,700	28,100	25,100

Main Boom Capacities – 150 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+LWR (lb)	135K+0 (lb)
24.0	82.0	254,300	254,300	249,500	171,400	254,300	254,300
25	81.6	251,900	251,900	233,700	159,400	251,900	251,900
30	79.7	226,800	226,500	171,300	116,000	226,800	226,800
35	77.7	192,500	178,300	134,300	90,400	193,200	193,200
40	75.8	158,200	146,400	109,900	73,400	167,800	167,800
50	71.8	115,600	106,900	79,600	52,300	132,100	132,100
60	67.7	90,300	83,300	61,500	39,700	108,100	102,200
70	63.5	73,400	67,600	49,500	31,400	90,100	82,500
80	59.2	61,400	56,400	40,900	25,400	75,100	68,700
90	54.6	52,400	48,000	34,500	20,900	64,000	58,400
100	49.8	45,400	41,500	29,500	17,400	55,500	50,500
110	44.6	39,800	36,300	25,500	14,600	48,700	44,200
120	38.8	35,200	32,000	22,200	12,300	43,100	39,100
130	32.3	31,300	28,400	19,400	10,400	38,500	34,800
140	24.2	28,000	25,400	17,000	8,700	34,600	31,200
150	11.8	25,100	22,700	14,900	7,200	31,200	28,000

Main Boom Capacities – 170 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+LWR (lb)	135K+0 (lb)
26.8	82.0	218,300	218,300	206,500	140,500	218,300	218,300
30	80.9	213,600	213,600	171,200	115,900	213,600	213,600
35	79.2	192,000	178,100	134,100	90,100	192,000	192,000
40	77.5	157,900	146,100	109,600	73,100	166,800	166,800
50	74.0	115,200	106,400	79,200	51,900	131,100	131,100
60	70.5	89,800	82,800	61,000	39,300	107,100	101,800
70	66.9	72,900	67,100	49,000	30,900	89,700	82,100
80	63.1	60,900	55,900	40,400	24,900	74,700	68,200
90	59.3	51,800	47,500	33,900	20,400	63,500	57,900
100	55.3	44,800	41,000	28,900	16,900	55,000	50,000
110	51.1	39,200	35,700	24,900	14,100	48,200	43,700
120	46.6	34,600	31,500	21,600	11,800	42,600	38,600
130	41.7	30,800	27,900	18,900	9,900	38,000	34,300
140	36.4	27,500	24,900	16,500	8,200	34,100	30,700
150	30.3	24,700	22,200	14,500	6,800	30,800	27,600
160	22.7	22,300	20,000	12,800	5,500	27,900	24,900
170	11.1	20,100	17,900	11,100	4,400	25,300	22,500

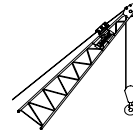
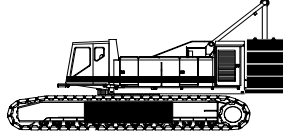
**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

Link-Belt
CONSTRUCTION EQUIPMENT**Main Boom Capacities – 180 Ft. – Open Throat Boom**

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+LWR (lb)	135K+0 (lb)
28.2	82.0	192,900	192,900	189,400	128,600	192,900	192,900
30	81.4	192,900	192,900	171,100	115,900	192,900	192,900
35	79.8	191,400	178,000	134,000	90,000	191,400	191,400
40	78.2	157,700	145,900	109,400	72,900	166,200	166,200
50	74.9	115,000	106,200	79,000	51,700	130,600	130,600
60	71.6	89,500	82,500	60,800	39,000	106,600	101,600
70	68.2	72,600	66,800	48,700	30,600	89,400	81,800
80	64.7	60,600	55,600	40,100	24,600	74,400	67,900
90	61.2	51,600	47,200	33,600	20,100	63,300	57,600
100	57.5	44,500	40,700	28,600	16,600	54,700	49,700
110	53.6	38,900	35,400	24,600	13,800	47,900	43,400
120	49.5	34,300	31,200	21,300	11,500	42,300	38,300
130	45.2	30,500	27,600	18,600	9,600	37,700	34,000
140	40.5	27,200	24,600	16,300	7,900	33,900	30,400
150	35.3	24,400	22,000	14,200	6,500	30,500	27,400
160	29.4	22,000	19,700	12,500	5,300	27,600	24,700
170	22.1	19,900	17,700	10,900	4,200	25,100	22,300
180	10.8	17,900	15,900	9,500	3,200	22,800	20,200

Main Boom Capacities – 200 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+LWR (lb)	135K+0 (lb)
31.0	82.0	154,300	154,300	154,300	109,400	154,300	154,300
35	80.8	152,400	152,400	133,700	89,700	152,400	152,400
40	79.4	152,400	145,600	109,000	72,500	152,400	152,400
50	76.5	114,500	105,800	78,500	51,200	129,500	129,500
60	73.5	89,000	82,000	60,300	38,500	105,600	101,200
70	70.5	72,100	66,200	48,100	30,000	88,400	81,300
80	67.4	60,000	55,000	39,500	24,000	73,900	67,400
90	64.3	51,000	46,600	33,000	19,500	62,700	57,100
100	61.0	43,900	40,100	28,000	16,000	54,100	49,100
110	57.7	38,300	34,800	24,000	13,200	47,300	42,800
120	54.3	33,700	30,500	20,700	10,900	41,700	37,700
130	50.6	29,900	27,000	18,000	8,900	37,100	33,400
140	46.8	26,600	23,900	15,600	7,300	33,200	29,800
150	42.8	23,800	21,300	13,600	5,900	29,900	26,800
160	38.4	21,400	19,100	11,900	4,700	27,000	24,100
170	33.5	19,300	17,100	10,400	3,600	24,500	21,800
180	27.9	17,400	15,300	9,000	2,600	22,300	19,700
190	20.9	15,700	13,800	7,800	—	20,300	17,800
200	10.2	14,100	12,300	6,600	—	18,500	16,100

Main Boom Capacities – 190 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+LWR (lb)	135K+0 (lb)
29.6	82.0	173,200	173,200	173,200	118,400	173,200	173,200
30	81.9	173,200	173,200	171,000	115,800	173,200	173,200
35	80.4	173,200	173,200	133,800	89,900	173,200	173,200
40	78.8	157,500	145,800	109,200	72,700	165,600	165,600
50	75.7	114,800	106,000	78,700	51,400	130,000	130,000
60	72.6	89,300	82,300	60,500	38,800	106,100	101,400
70	69.4	72,400	66,500	48,400	30,300	88,900	81,600
80	66.1	60,300	55,300	39,800	24,300	74,100	67,700
90	62.8	51,300	46,900	33,400	19,800	63,000	57,400
100	59.4	44,200	40,400	28,300	16,300	54,400	49,400
110	55.8	38,600	35,100	24,300	13,500	47,600	43,100
120	52.1	34,000	30,900	21,000	11,200	42,000	38,000
130	48.1	30,200	27,300	18,300	9,300	37,400	33,700
140	43.9	26,900	24,300	15,900	7,600	33,600	30,100
150	39.4	24,100	21,700	13,900	6,200	30,200	27,100
160	34.4	21,700	19,400	12,200	5,000	27,300	24,400
170	28.6	19,600	17,400	10,700	3,900	24,800	22,100
180	21.5	17,700	15,600	9,300	2,900	22,600	20,000
190	10.5	15,900	14,000	8,000	2,000	20,500	18,100

Main Boom Capacities – 210 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+LWR (lb)	135K+0 (lb)
32.4	82.0	138,500	138,500	138,500	101,600	138,500	138,500
35	81.3	138,500	138,500	133,500	89,500	138,500	138,500
40	79.9	138,500	138,500	108,800	72,300	138,500	138,500
50	77.1	114,300	105,500	78,200	51,000	128,900	128,900
60	74.3	88,700	81,700	60,000	38,200	105,100	100,900
70	71.4	71,800	66,000	47,900	29,700	87,900	81,000
80	68.5	59,700	54,700	39,200	23,700	73,600	67,100
90	65.6	50,600	46,300	32,700	19,200	62,400	56,800
100	62.5	43,600	39,700	27,700	15,700	53,800	48,800
110	59.4	38,000	34,500	23,700	12,800	47,000	42,500
120	56.2	33,400	30,200	20,400	10,500	41,400	37,400
130	52.8	29,500	26,600	17,600	8,600	36,800	33,100
140	49.3	26,300	23,600	15,300	7,000	32,900	29,500
150	45.6	23,500	21,000	13,300	5,600	29,600	26,400
160	41.7	21,100	18,800	11,600	4,400	26,700	23,800
170	37.4	19,000	16,800	10,000	3,300	24,200	21,400
180	32.6	17,100	15,000	8,700	2,300	22,000	19,400
190	27.2	15,400	13,500	7,500	—	20,000	17,500
200	20.4	13,900	12,000	6,400	—	18,200	15,900
210	10.0	12,500	10,700	5,300	—	16,600	14,400

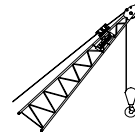
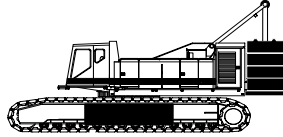
**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

Link-Belt
CONSTRUCTION EQUIPMENT**Main Boom Capacities – 220 Ft. – Open Throat Boom**

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
33.8	82.0	125,700	125,700	125,700	94,700	125,700	125,700
35	81.7	125,700	125,700	125,700	89,300	125,700	125,700
40	80.4	122,600	122,600	108,600	72,100	122,600	122,600
50	77.7	114,000	105,300	78,000	50,700	121,100	121,100
60	75.0	88,500	81,500	59,700	37,900	104,500	100,700
70	72.3	71,500	65,700	47,600	29,400	87,300	80,800
80	69.6	59,400	54,400	38,900	23,400	73,300	66,800
90	66.8	50,300	46,000	32,400	18,900	62,100	56,500
100	63.9	43,300	39,400	27,400	15,300	53,500	48,500
110	60.9	37,700	34,200	23,300	12,500	46,700	42,200
120	57.9	33,000	29,900	20,000	10,200	41,100	37,100
130	54.8	29,200	26,300	17,300	8,300	36,500	32,800
140	51.5	26,000	23,300	15,000	6,600	32,600	29,200
150	48.1	23,200	20,700	13,000	5,200	29,300	26,100
160	44.5	20,700	18,400	11,200	4,000	26,400	23,400
170	40.7	18,600	16,500	9,700	2,900	23,900	21,100
180	36.5	16,700	14,700	8,300	2,000	21,700	19,100
190	31.9	15,100	13,100	7,100	—	19,700	17,200
200	26.5	13,600	11,700	6,000	—	17,900	15,600
210	19.9	12,200	10,400	5,000	—	16,300	14,100
220	9.7	10,900	9,200	4,100	—	14,800	12,700

Main Boom Capacities – 240 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
36.6	82.0	101,500	101,500	101,500	PROHIBITED	101,500	101,500
40	81.2	101,500	101,500	101,500		101,500	101,500
50	78.7	100,200	100,200	77,400		100,200	100,200
60	76.3	87,900	80,900	59,100		99,000	99,000
70	73.8	70,900	65,100	46,900		86,300	80,200
80	71.3	58,800	53,800	38,300		72,700	66,200
90	68.8	49,700	45,300	31,800		61,500	55,900
100	66.2	42,600	38,700	26,700		52,900	47,900
110	63.6	37,000	33,500	22,700		46,000	41,600
120	60.9	32,400	29,200	19,400		40,500	36,400
130	58.1	28,500	25,600	16,600		35,800	32,100
140	55.2	25,300	22,600	14,300		31,900	28,500
150	52.3	22,500	20,000	12,300		28,600	25,400
160	49.2	20,100	17,700	10,500		25,700	22,800
170	46.0	17,900	15,800	9,000		23,200	20,400
180	42.5	16,100	14,000	7,700		21,000	18,400
190	38.9	14,400	12,500	6,500		19,000	16,600
200	34.9	12,900	11,100	5,400		17,200	14,900
210	30.5	11,500	9,800	4,400		15,600	13,400
220	25.4	10,300	8,600	3,500		14,200	12,100
230	19.1	9,200	7,600	2,700		12,900	10,900
240	9.3	8,100	6,600	—		11,500	9,700

Main Boom Capacities – 230 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
35.2	82.0	112,200	112,200	112,200	PROHIBITED	112,200	112,200
40	80.8	110,800	110,800	108,400		110,800	110,800
50	78.3	110,100	105,000	77,700		110,100	110,100
60	75.7	88,200	81,200	59,400		104,000	100,400
70	73.1	71,200	65,400	47,300		86,800	80,500
80	70.5	59,100	54,100	38,600		73,000	66,500
90	67.8	50,000	45,600	32,100		61,800	56,200
100	65.1	43,000	39,100	27,000		53,200	48,200
110	62.3	37,300	33,800	23,000		46,300	41,900
120	59.5	32,700	29,500	19,700		40,800	36,700
130	56.5	28,900	26,000	17,000		36,200	32,500
140	53.5	25,600	22,900	14,600		32,300	28,900
150	50.3	22,800	20,300	12,600		28,900	25,800
160	47.0	20,400	18,100	10,900		26,100	23,100
170	43.5	18,300	16,100	9,400		23,500	20,800
180	39.8	16,400	14,400	8,000		21,300	18,700
190	35.7	14,700	12,800	6,800		19,400	16,900
200	31.2	13,200	11,400	5,700		17,600	15,300
210	25.9	11,900	10,100	4,700		16,000	13,800
220	19.5	10,600	9,000	3,800		14,500	12,400
230	9.5	9,400	7,900	3,000		13,100	11,200

Main Boom Capacities – 250 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+ LWR (lb)	135K+0 (lb)
38.0	82.0	93,700	93,700	93,700	PROHIBITED	93,700	93,700
40	81.5	93,700	93,700	93,700		93,700	93,700
50	79.2	92,500	92,500	77,200		92,500	92,500
60	76.9	87,500	80,500	58,800		92,000	92,000
70	74.5	70,500	64,700	46,600		81,600	79,900
80	72.1	58,300	53,400	37,900		72,300	65,900
90	69.7	49,300	44,900	31,300		61,100	55,500
100	67.2	42,200	38,300	26,300		52,500	47,500
110	64.7	36,500	33,100	22,200		45,600	41,100
120	62.1	31,900	28,800	18,900		40,000	36,000
130	59.5	28,100	25,200	16,200		35,400	31,700
140	56.8	24,800	22,100	13,800		31,500	28,100
150	54.0	22,000	19,500	11,800		28,200	25,000
160	51.1	19,600	17,300	10,100		25,300	22,300
170	48.1	17,500	15,300	8,500		22,800	20,000
180	45.0	15,600	13,500	7,200		20,500	17,900
190	41.6	13,900	12,000	6,000		18,600	16,100
200	38.1	12,400	10,600	4,900		16,800	14,500
210	34.2	11,100	9,300	3,900		15,200	13,000
220	29.8	9,800	8,200	3,000		13,700	11,700
230	24.9	8,700	7,100	2,200		12,400	10,400
240	18.7	7,700	6,100	—		11,200	9,300
250	9.1	6,700	5,200	—		10,100	8,200

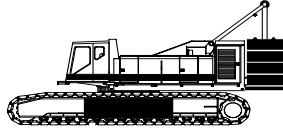
**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

Link-Belt
CONSTRUCTION EQUIPMENT**Main Boom Capacities – 260 Ft. – Open Throat Boom**

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+LWR (lb)	135K+0 (lb)
39.4	82.0	86,200	86,200	86,200	PROHIBITED	86,200	86,200
40	81.9	86,200	86,200	86,200		86,200	86,200
50	79.6	81,900	81,900	76,900		81,900	81,900
60	77.4	80,900	80,200	58,500		80,900	80,900
70	75.1	70,200	64,400	46,200		74,800	74,800
80	72.8	58,000	53,000	37,500		69,200	65,500
90	70.5	48,900	44,600	31,000		60,800	55,200
100	68.1	41,800	38,000	25,900		52,100	47,200
110	65.7	36,200	32,700	21,900		45,300	40,800
120	63.3	31,600	28,400	18,600		39,700	35,600
130	60.8	27,700	24,800	15,800		35,100	31,300
140	58.2	24,500	21,800	13,500		31,100	27,700
150	55.6	21,700	19,200	11,500		27,800	24,600
160	52.9	19,200	16,900	9,700		24,900	22,000
170	50.1	17,100	14,900	8,200		22,400	19,600
180	47.1	15,200	13,200	6,800		20,200	17,600
190	44.1	13,600	11,600	5,600		18,200	15,800
200	40.8	12,100	10,200	4,500		16,400	14,100
210	37.3	10,700	9,000	3,600		14,800	12,600
220	33.5	9,500	7,800	2,700		13,400	11,300
230	29.3	8,400	6,800	—		12,100	10,100
240	24.4	7,300	5,800	—		10,900	9,000
250	18.3	6,400	4,900	—		9,800	7,900
260	9.0	5,400	4,100	—		8,700	6,900

Main Boom Capacities – 280 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+LWR (lb)	135K+0 (lb)
42.1	82.0	70,800	70,800	PROHIBITED		70,800	70,800
50	80.4	69,900	69,900			69,900	69,900
60	78.3	69,000	69,000			69,000	69,000
70	76.2	63,800	63,700			63,800	63,800
80	74.1	57,400	52,400			58,200	58,200
90	71.9	48,200	43,900			53,500	53,500
100	69.8	41,200	37,300			48,800	46,500
110	67.6	35,500	32,000			44,600	40,100
120	65.3	30,900	27,700			38,700	34,900
130	63.1	27,000	24,100			34,400	30,600
140	60.7	23,700	21,100			30,400	27,000
150	58.4	20,900	18,400			27,100	23,900
160	55.9	18,500	16,200			24,200	21,300
170	53.4	16,400	14,200			21,700	18,900
180	50.8	14,500	12,500			19,500	16,900
190	48.1	12,800	10,900			17,500	15,000
200	45.3	11,300	9,500			15,700	13,400
210	42.4	10,000	8,200			14,100	11,900
220	39.2	8,800	7,100			12,700	10,600
230	35.9	7,600	6,100			11,400	9,400
240	32.2	6,600	5,100			10,200	8,300
250	28.2	5,700	4,200			9,000	7,300
260	23.5	4,800	3,400			7,900	6,300
270	17.6	4,000	2,600			6,800	5,400
280	8.6	3,200	—			5,600	4,600

Main Boom Capacities – 270 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+LWR (lb)	135K+0 (lb)
40.7	82.0	76,500	76,500	76,500	PROHIBITED	76,500	76,500
50	80.0	75,500	75,500	75,500		75,500	75,500
60	77.8	74,600	74,600	58,200		74,600	74,600
70	75.7	69,000	64,000	45,900		69,000	69,000
80	73.5	57,700	52,700	37,200		63,400	63,400
90	71.2	48,600	44,200	30,700		57,800	54,800
100	69.0	41,500	37,600	25,600		51,800	46,800
110	66.7	35,800	32,400	21,500		44,900	40,500
120	64.4	31,200	28,100	18,200		39,300	35,300
130	62.0	27,400	24,500	15,400		34,700	31,000
140	59.5	24,100	21,400	13,100		30,800	27,400
150	57.1	21,300	18,800	11,100		27,500	24,300
160	54.5	18,900	16,600	9,300		24,600	21,600
170	51.8	16,700	14,600	7,800		22,000	19,300
180	49.1	14,900	12,800	6,500		19,800	17,200
190	46.2	13,200	11,300	5,300		17,800	15,400
200	43.2	11,700	9,900	4,200		16,100	13,800
210	40.0	10,300	8,600	3,200		14,500	12,300
220	36.6	9,100	7,500	2,300		13,100	11,000
230	32.8	8,000	6,400	—		11,700	9,700
240	28.7	7,000	5,500	—		10,500	8,600
250	23.9	6,000	4,600	—		9,400	7,600
260	18.0	5,100	3,800	—		8,300	6,600
270	8.8	4,300	3,000	—		7,200	5,700

Main Boom Capacities – 290 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+LWR (lb)	135K+0 (lb)
43.5	82.0	65,300	65,300	PROHIBITED		65,300	65,300
50	80.7	64,400	64,400			64,400	64,400
60	78.7	63,600	63,600			63,600	63,600
70	76.7	58,900	58,900			58,900	58,900
80	74.6	53,700	52,000			53,700	53,700
90	72.6	47,900	43,500			49,300	49,300
100	70.5	40,800	36,900			45,000	45,000
110	68.4	35,100	31,600			38,500	38,500
120	66.2	30,500	27,300			35,600	34,600
130	64.1	26,600	23,700			32,500	30,300
140	61.8	23,400	20,700			30,100	26,700
150	59.6	20,600	18,100			26,700	23,600
160	57.3	18,100	15,800			23,800	20,900
170	54.9	16,000	13,800			21,300	18,600
180	52.4	14,100	12,100			19,100	16,500
190	49.9	12,500	10,500			17,100	14,700
200	47.3	11,000	9,100			15,400	13,000
210	44.5	9,600	7,900			13,800	11,600
220	41.6	8,400	6,700			12,300	10,200
230	38.5	7,300	5,700			11,000	9,000
240	35.2	6,300	4,700			9,800	7,900
250	31.7	5,300	3,900			8,500	6,900
260	27.7	4,400	3,100			7,400	6,000
270	23.1	3,600	2,300			6,300	5,100
280	17.3	2,900	—			5,300	4,200
290	8.5	2,100	—			4,100	3,500

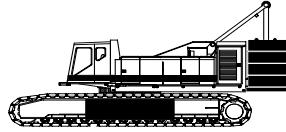
**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

Link-Belt
CONSTRUCTION EQUIPMENT**Main Boom Capacities – 300 Ft. – Open Throat Boom**

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+LVR (lb)	135K+0 (lb)
44.9	82.0	60,300	60,300	PROHIBITED		60,300	60,300
50	81.0	59,900	59,900			59,900	59,900
60	79.1	59,100	59,100			59,100	59,100
70	77.1	54,300	54,300			54,300	54,300
80	75.2	49,600	49,600			49,600	49,600
90	73.2	45,500	43,200			45,500	45,500
100	71.2	38,700	36,600			38,700	38,700
110	69.1	34,800	31,300			35,600	35,600
120	67.1	30,100	27,000			32,900	32,900
130	65.0	26,300	23,400			30,000	29,900
140	62.9	23,000	20,300			27,700	26,300
150	60.7	20,200	17,700			25,700	23,200
160	58.5	17,800	15,400			23,500	20,500
170	56.2	15,600	13,500			21,000	18,200
180	53.9	13,800	11,700			18,700	16,100
190	51.5	12,100	10,200			16,800	14,300
200	49.0	10,600	8,800			15,000	12,700
210	46.4	9,200	7,500			13,400	11,200
220	43.7	8,000	6,400			12,000	9,900
230	40.9	6,900	5,300			10,600	8,700
240	37.9	5,900	4,400			9,200	7,500
250	34.6	4,900	3,500			8,000	6,500
260	31.1	4,100	2,700			6,900	5,600
270	27.2	3,300	—			5,800	4,700
280	22.7	2,500	—			4,800	3,900
290	17.0	—	—			3,800	3,100
300	8.3	—	—			2,700	2,400

Main Boom Capacities – 320 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+LVR (lb)	135K+0 (lb)
47.7	82.0	51,700	PROHIBITED			51,700	51,700
50	81.6	51,700				51,700	51,700
60	79.8	50,800				50,800	50,800
70	77.9	46,600				46,600	46,600
80	76.1	42,600				42,600	42,600
90	74.3	36,200				36,200	36,200
100	72.4	33,000				33,000	33,000
110	70.5	30,500				30,500	30,500
120	68.6	27,800				27,800	27,800
130	66.6	25,500				25,800	25,800
140	64.7	22,300				23,500	23,500
150	62.7	19,400				21,700	21,700
160	60.7	17,000				20,100	20,100
170	58.6	14,900				18,600	18,600
180	56.5	13,000				17,200	17,200
190	54.3	11,300				15,900	15,900
200	52.0	9,800				14,200	14,200
210	49.7	8,500				12,600	12,600
220	47.3	7,300				11,000	11,000
230	44.9	6,100				9,500	9,500
240	42.3	5,100				8,200	8,200
250	39.5	4,200				7,000	7,000
260	36.6	3,300				5,800	5,800
270	33.5	2,500				4,800	4,800
280	30.1	—				3,800	3,800
290	26.3	—				2,900	2,900
300	21.9	—				2,000	2,000

Main Boom Capacities – 310 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+LVR (lb)	135K+0 (lb)
46.3	82.0	55,800	55,800	PROHIBITED		55,800	55,800
50	81.3	55,800	55,800			55,800	55,800
60	79.4	54,700	54,700			54,700	54,700
70	77.5	50,300	50,300			50,300	50,300
80	75.6	45,900	45,900			45,900	45,900
90	73.7	39,000	39,000			39,000	39,000
100	71.8	35,800	35,800			35,800	35,800
110	69.8	32,900	30,900			32,900	32,900
120	67.9	29,800	26,600			30,200	30,200
130	65.8	25,900	23,000			27,800	27,800
140	63.8	22,600	19,900			25,700	25,700
150	61.7	19,800	17,300			23,600	22,900
160	59.6	17,400	15,100			21,800	20,200
170	57.4	15,300	13,100			20,200	17,800
180	55.2	13,400	11,300			18,400	15,800
190	52.9	11,700	9,800			16,400	13,900
200	50.6	10,200	8,400			14,600	12,300
210	48.1	8,900	7,100			13,000	10,800
220	45.6	7,600	6,000			11,500	9,500
230	43.0	6,500	4,900			10,100	8,300
240	40.2	5,500	4,000			8,700	7,200
250	37.2	4,600	3,100			7,500	6,200
260	34.1	3,700	2,300			6,300	5,200
270	30.6	2,900	—			5,300	4,400
280	26.7	2,200	—			4,300	3,500
290	22.3	—	—			3,400	2,800
300	16.8	—	—			2,500	2,100

Main Boom Capacities – 330 Ft. – Open Throat Boom

Load Radius (ft)	Boom Angle (deg)	360° Rotation				Over End Blocked	
		135K+L WR(lb)	135K + 0 (lb)	83K + 0 (lb)	31K + 0 (lb)	135K+LVR (lb)	135K+0 (lb)
49.1	82.0	47,900	PROHIBITED			47,900	47,900
50	81.8	47,900				47,900	47,900
60	80.1	47,300				47,300	47,300
70	78.3	43,100				43,100	43,100
80	76.5	36,400				36,400	36,400
90	74.7	33,400				33,400	33,400
100	72.9	30,700				30,700	30,700
110	71.1	28,000				28,000	28,000
120	69.3	25,900				25,900	25,900
130	67.4	23,600				23,600	23,600
140	65.5	21,900				21,900	21,900
150	63.6	19,100				20,100	20,100
160	61.6	16,600				18,600	18,600
170	59.6	14,500				17,200	17,200
180	57.6	12,600				15,900	15,900
190	55.5	10,900				14,700	14,700
200	53.4	9,400				13,600	13,600
210	51.2	8,100				12,000	12,000
220	48.9	6,900				10,400	10,400
230	46.6	5,800				9,000	9,000
240	44.1	4,700				7,700	7,700
250	41.6	3,800				6,400	6,400
260	38.9	2,900				5,300	5,300
270	36.0	2,100				4,200	4,200
280	33.0	—				3,300	3,300
290	29.6	—				2,300	2,300

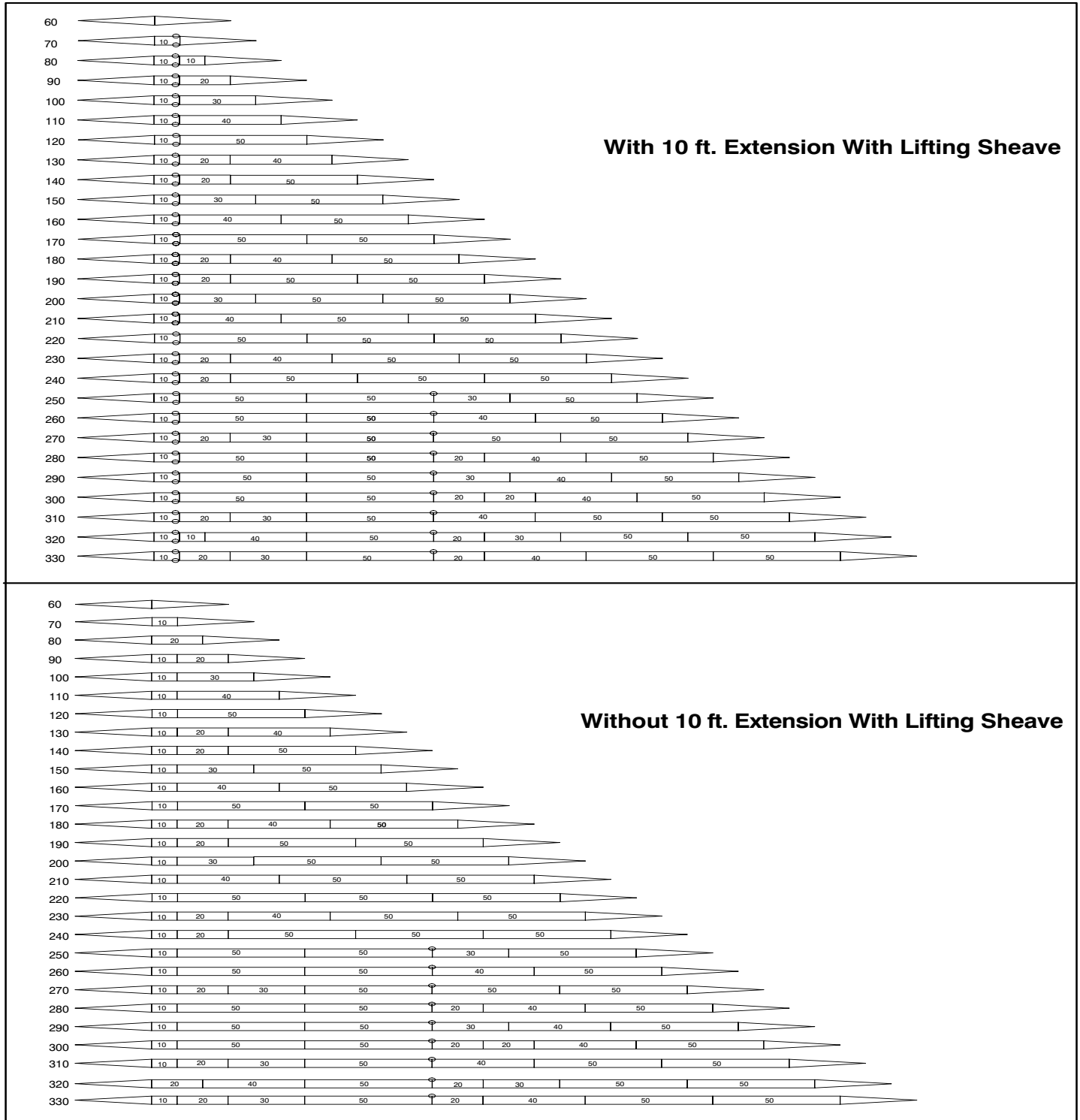
**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

Link-Belt
CONSTRUCTION EQUIPMENT**Suggested Open Throat Boom Make Up****A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**