

SERIAL NUMBER: **N6K2-3103**

CRANE RATING MANUAL

218 HSL

- 50" x 60" TUBE BOOM
- 20' OPEN THROAT PEAK SECTION
- 1.25" DIAMETER PENDANTS
- WITH LIVE MAST
- 14'2" GAUGE AND
20'6" OVERALL LENGTH
- 24" x 32" TUBULAR JIB

For Replacement, Order Part Number: N6P0024
(050610)

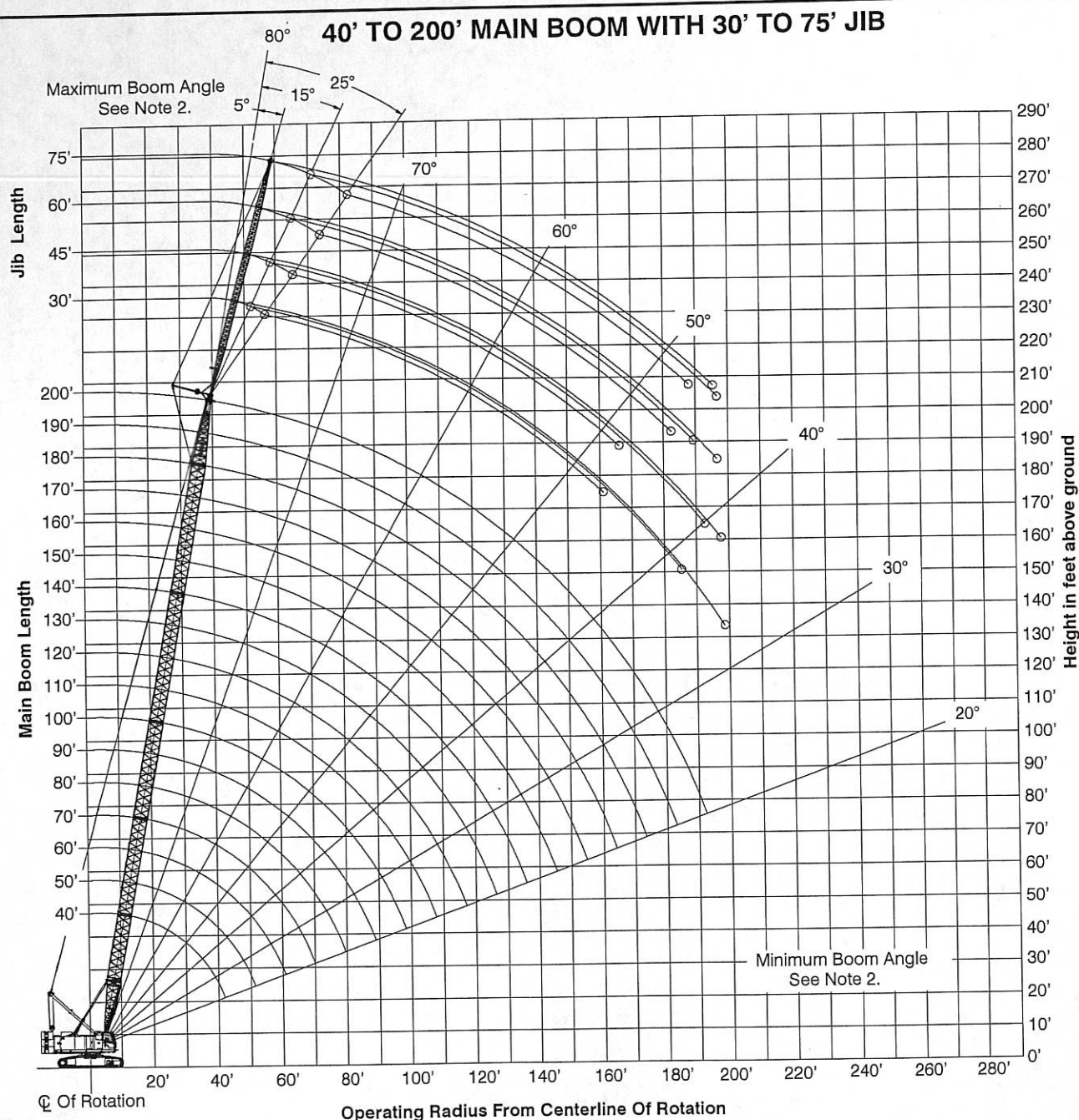
Link-Belt
CONSTRUCTION EQUIPMENT

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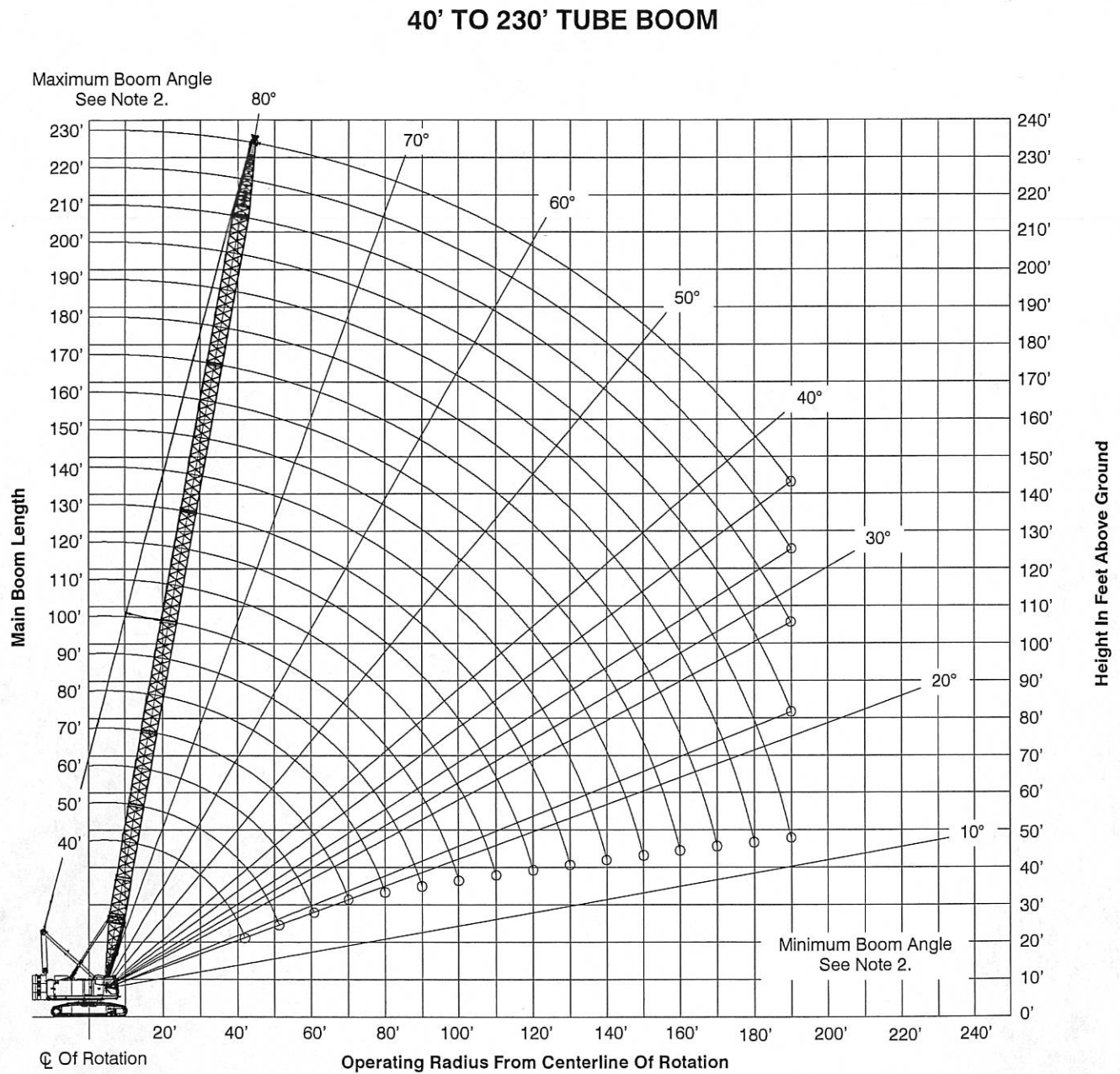
Jib Attachment Working Range Diagram



Notes:

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

Main Boom Working Range Diagram

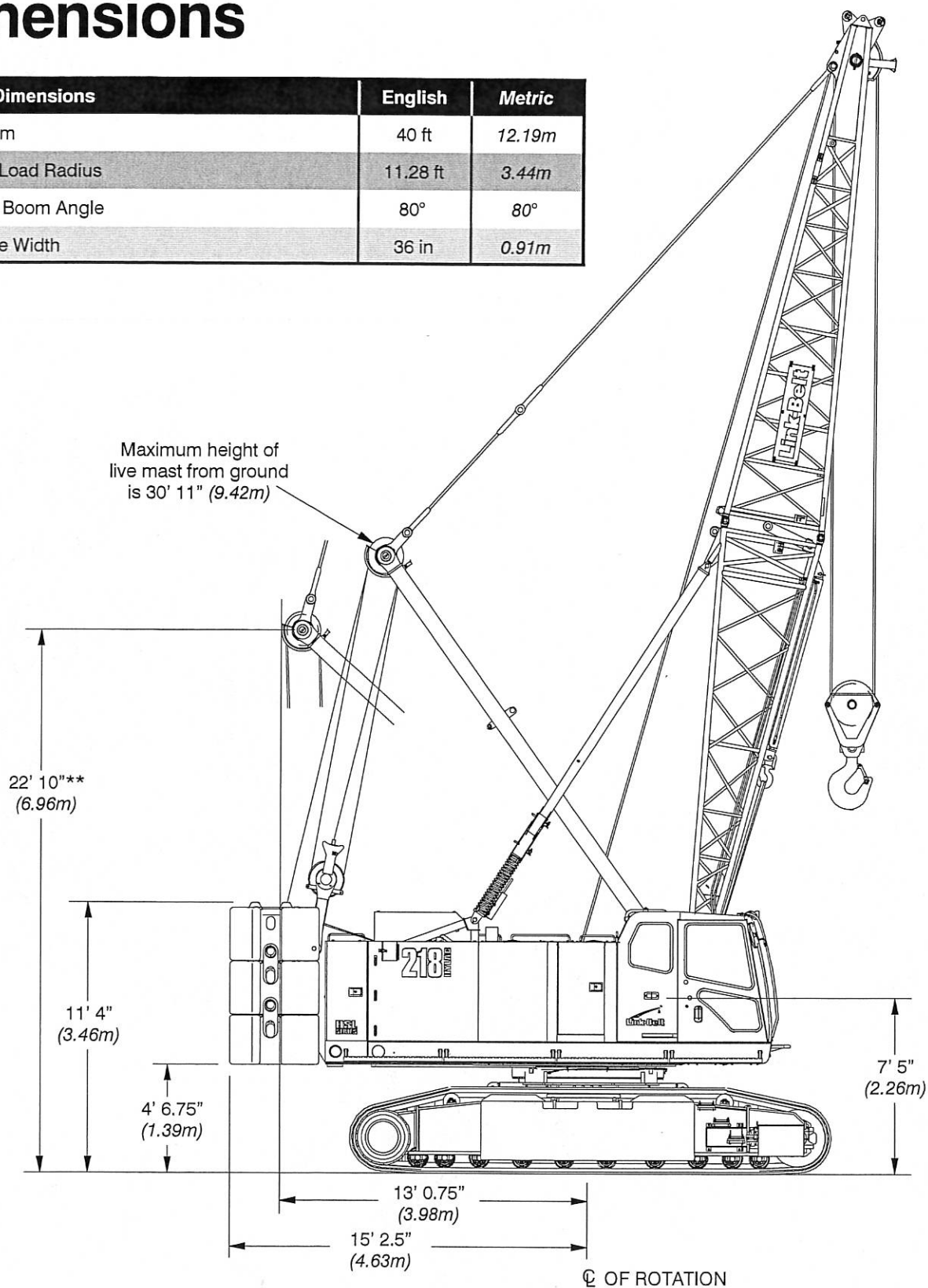


Notes:

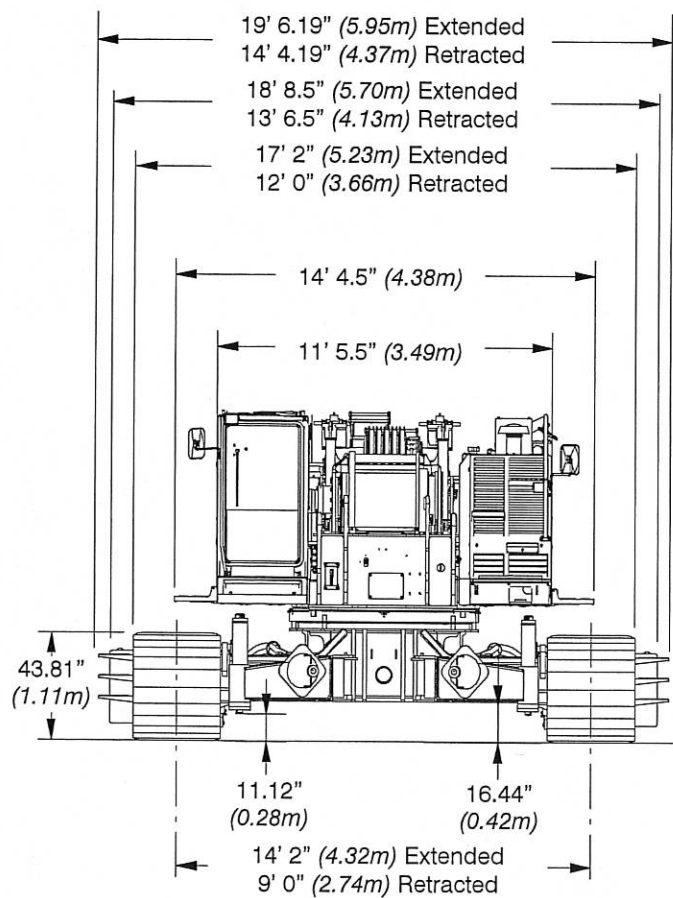
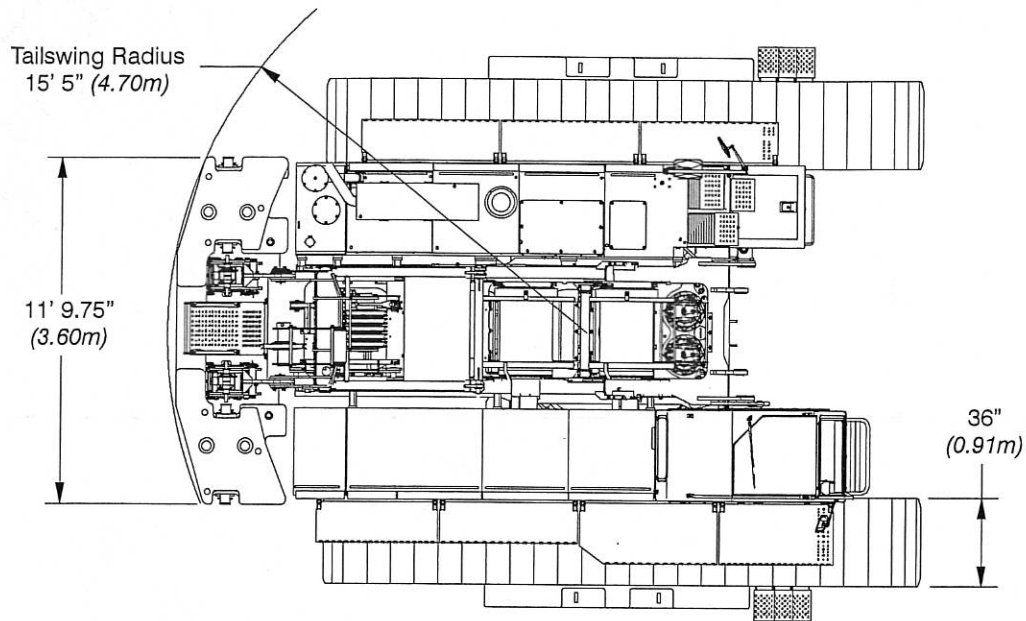
1. Boom geometry shown is for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius, and boom angle change must be accounted for when applying load to hook.
2. Maximum and minimum boom angles are equal to the values listed in the capacity chart for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

Dimensions

General Dimensions	English	Metric
Basic Boom	40 ft	12.19m
Minimum Load Radius	11.28 ft	3.44m
Maximum Boom Angle	80°	80°
Track Shoe Width	36 in	0.91m



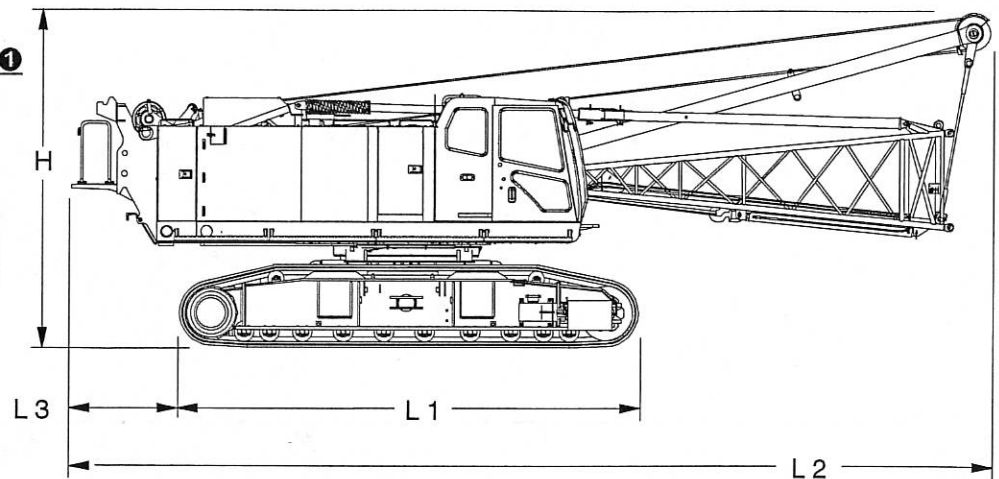
Note: ***@ Maximum boom angle (80°) with maximum boom [240 ft (73.15m)], maximum rotation radius occurs.



Base Crane

Base Crane ①

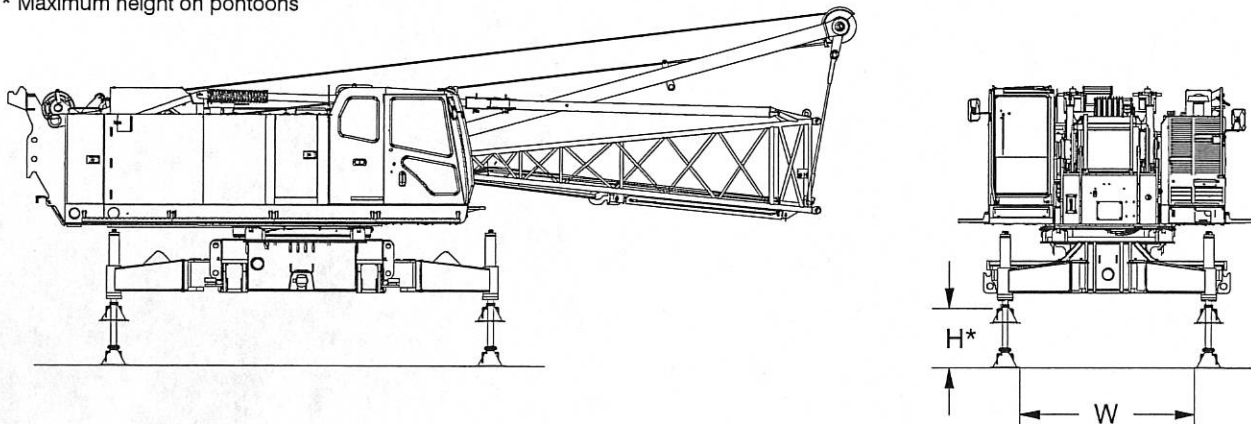
Length 1	20 ft 6.25 in	(6.25m)
Length 2	41 ft 1.31 in	(12.53m)
Length 3	4 ft 10.25 in	(1.48m)
Height	14 ft 10 in	(4.52m)
Weight:		
Tube Boom	99,508 lb	(45 136kg)
Angle Boom	100,693 lb	(45 674kg)



Base Crane w/ Optional Jacks ①

Width	8 ft 5.33 in	(2.57m)
Height*	35.34 in	(0.90m)
Weight	67,250 lb	(30504kg)

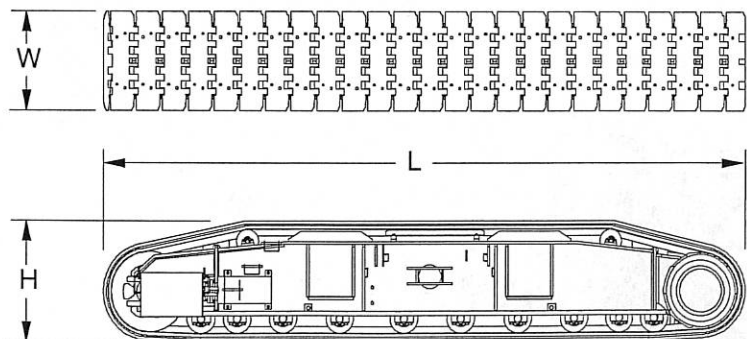
* Maximum height on pontoons



Side Frames

Side Frames ②

Length	20 ft 6.25 in	(6.25m)
Width	36 in	(0.91m)
Height	43.81 in	(1.11m)
Weight	19,450 lb	(8 822kg)

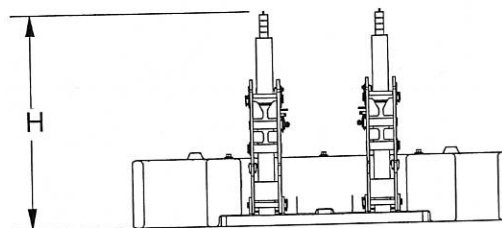
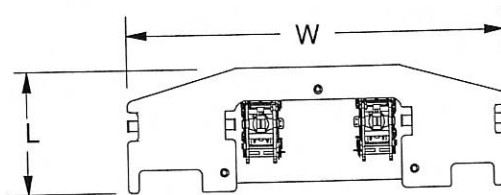


Number inside black circle "①" = # of components

Upper Counterweights

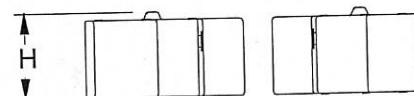
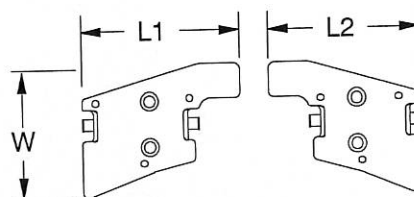
A' Slab Counterweight ①

Length	45.44 in	(1.15m)
Width	11 ft 9.75 in	(3.60m)
Height	6 ft 6 in	(1.98m)
Weight	25,260 lb	(11 458kg)



"B" Wing Counterweights ②

Length 1	55.12 in	(1.40m)
Length 2	53 in	(1.35m)
Width	45.44 in	(1.15m)
Height	29.44 in	(0.75m)
Weight	9,370 lb	(4 250kg)



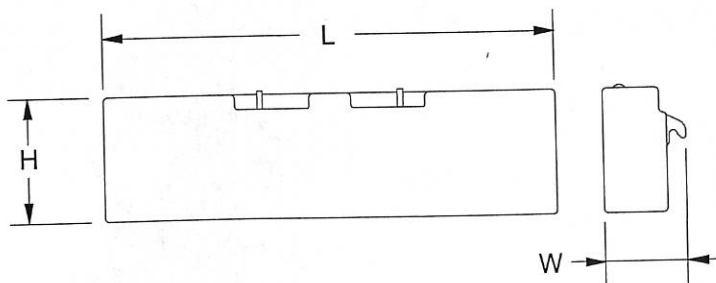
"C" Wing Counterweights ②

Length 1	55.12 in	(1.40m)
Length 2	53 in	(1.35m)
Width	45.44 in	(1.15m)
Height	29.44 in	(0.75m)
Weight	9,410 lb	(4 268kg)

Lower Counterweights

Side Frame Counterweights ②

Length	9 ft 1 in	(2.77m)
Width	15.16 in	(0.39m)
Height	29.50 in	(0.75m)
Weight	11,100 lb	(5 035kg)



Number inside black circle "①" = # of components



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.

Operating Instructions

General:

1. Rated lifting capacities in pounds as shown on lift charts pertain to this crane as originally manufactured and normally equipped by Link-Belt Construction Equipment Company (LBCE). 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 B30.5 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, 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 auxiliary tip extension or pile driver lead adapter is installed, reduce capacities by values shown on Capacity Deductions For Lifting Off Main Boom Hook With Auxiliary Tip Extension or Pile Driver Lead Adapter Installed. If the luffing jib bridle guide rail assembly remains installed, reduce capacities by the value shown in Capacity Deductions For Lifting Loads With Luffing Jib Bridle Guide Rails 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.
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. A deduction must be made for excessive reeving. Any reeving over minimum required (see Wire Rope Capacity Chart) is considered excessive and must be accounted for when making lifts. Use Working Range Diagram to estimate the extra feet of rope. See Wire Rope Capacity for the weight to deduct for each extra foot of wire rope before attempting to lift a load.
4. Rated lifting capacities in this Crane Rating Manual are based on freely suspended loads and make no allowances for such factors as the effect of 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 up to 20 mph and appropriately reduced for wind speeds greater than 20 mph. (See Wind Restrictions Guide.)
6. The least stable rated condition is over the side.
7. 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 this Crane Rating Manual. Any of the above can cause a tipping condition or boom and jib failure.
8. These capacities apply only to the crane as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.

For Over End Blocked 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. The ramps supplied with the crane are considered to be adequate blocking.
2. Do not travel with "Over End Blocked" capacity loads.

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 travel swing lock and apply swing park brake.
4. Travel slowly and cautiously on a firm and level supporting surface.

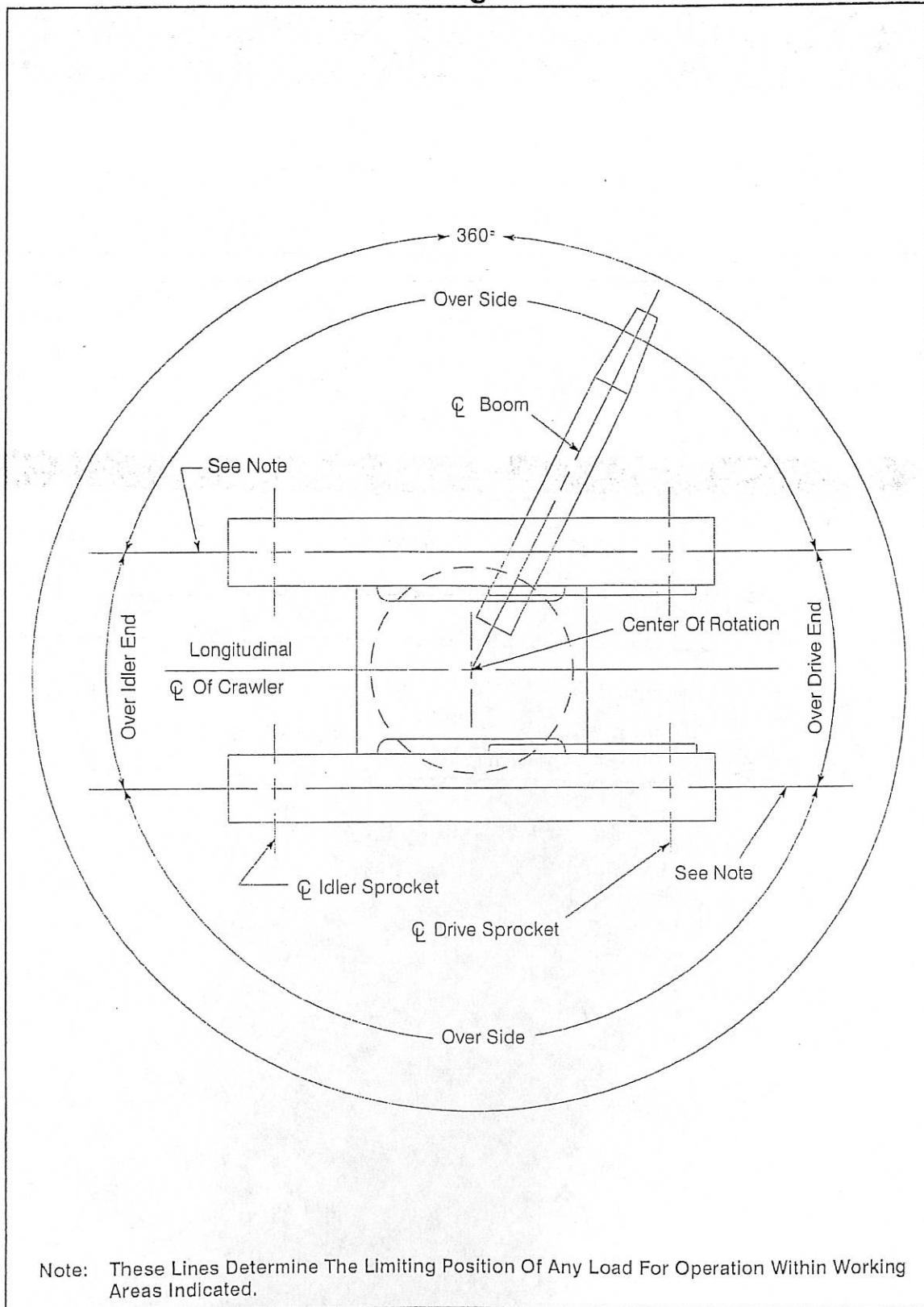
Definitions:

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 centerline of rotation as shown on the Working Areas 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.

Wire Rope Capacity Chart

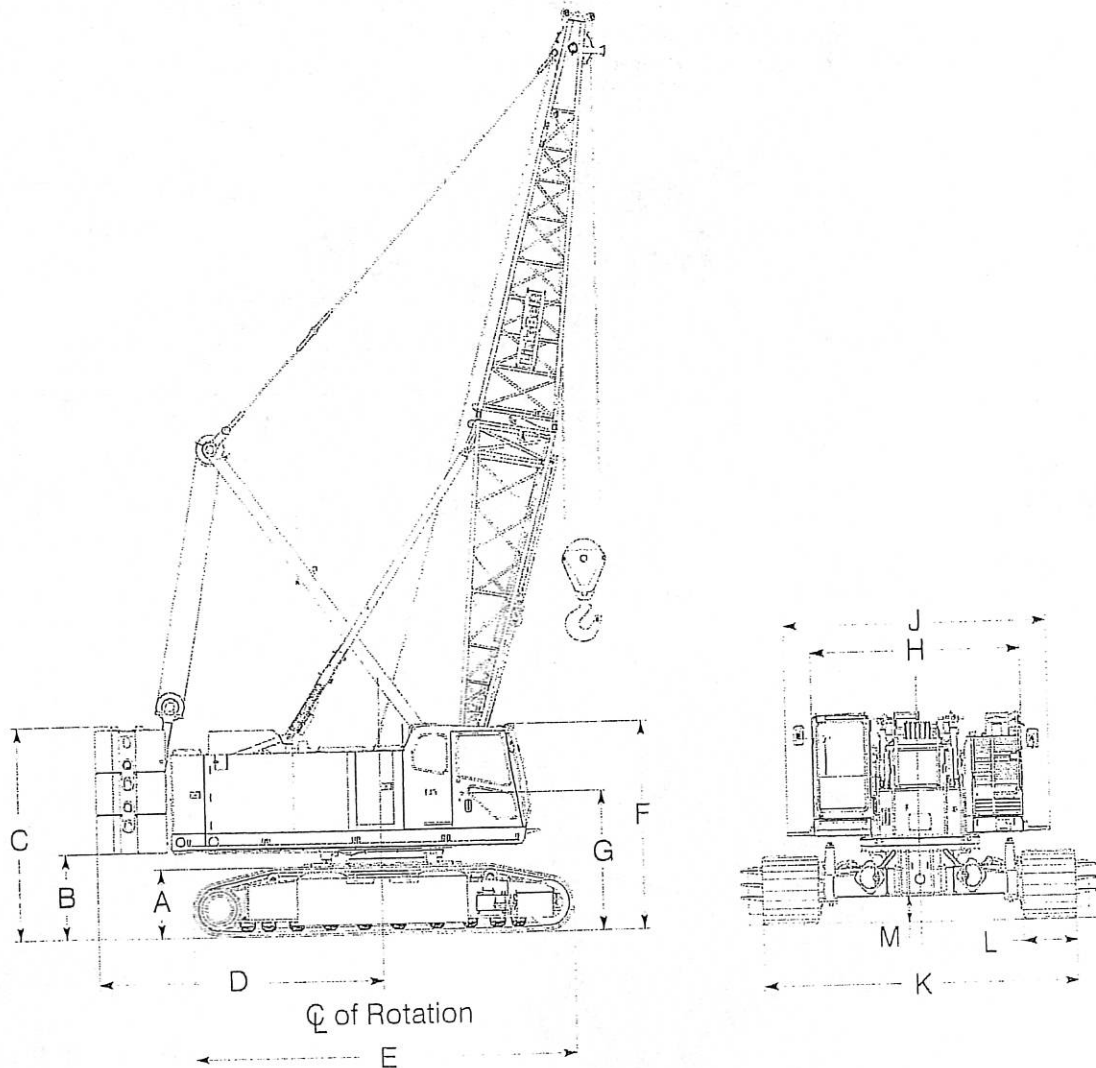
Parts of Line	26mm (1.02")			3/4"
	Type "CC"	Type "RB"	Type "DB"	Type "DB"
1	32,200	23,800	30,900	16,800
2	64,400	47,600	61,800	33,600
3	96,600	71,400	92,700	50,400
4	128,800	95,200	123,600	67,200
5	161,000	119,000	154,500	84,000
6	193,200	142,800	185,400	100,800
7	225,400	166,600	216,300	117,600
8	257,600	190,400	247,200	134,400
Rope Wt./Length [lb/ft]	2.13	2.30	1.90	1.04
LBCE Type	Description			
CC	36 X 7 Non—Rotating, E.E.I.P.S., Right Regular Lay, Compacted			
RB	18 X 19 Rotation Resistant Compacted Strand – High Strength – Preformed, Right Regular Lay			
DB	6 X 26 (6 X 19 Class), Warrington Seale, E.I.P.S., Preformed, Right Regular Lay, I.W.R.C.			
Notes:				
1. Capacities shown are in pounds and working loads must not exceed the ratings on the capacity charts in this Crane Rating Manual.				
2. Study Operator's Manual for wire rope inspection procedures and single part of line applications.				
3. Always refer to the Parts Manual when ordering wire rope.				

Working Areas



General Dimensions

	General Description	Dimension
A	Side Frame Height	3'-7.8"
B	Ground Clearance - Counterweight	4'-6.75"
C	Overall Height - Counterweight	11'-4"
D	Counterweight Tailswing	15'-2.5"
E	Side Frame Length	20'-6"
F	Operator's Cab Height	11'-1"
G	Height Of Boom Foot Pin	7'-5"
H	Upper Width	11'-5.5"
J	Width Over Catwalks	14'-4.5"
K	Retracted Width	12'-0"
	Extended Width	17'-2"
L	Track Shoe Width	36.0"
M	Minimum Ground Clearance	16.44"



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