

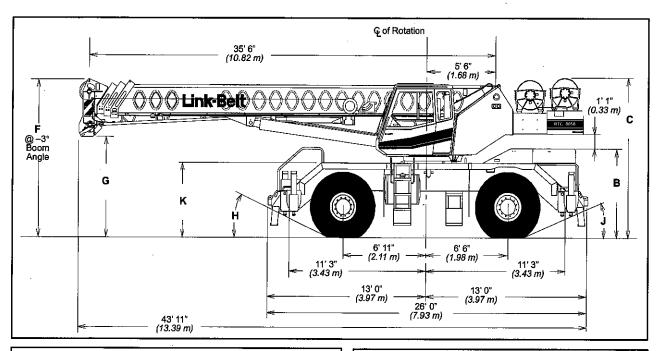
# **Specifications**

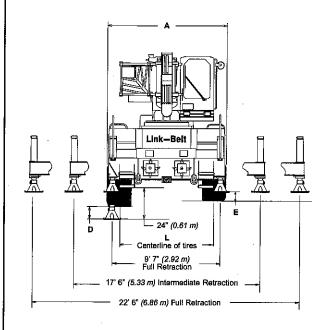
Telescopic Boom Rough Terrain Crane

RTC-8050

**50-ton** (45.36 metric ton)

Series II





General Dimensions	feet	feet metric	
Turning Radius (4-wheel steer -centerline			
of tires	20'	6.09	
Turning Radius (2-wheel steer -centerline			
of tires	36'	10.97	
Turning Radius (4-wheel steer - outside			
front carrier corner	23' 4"	7.11	
Turning Radius (2-wheel steer - outside			
front carrier corner	39' 0"	11.89	
Tailswing of counterweight	12' 10"	3.90	

	Tire	Size
Dimension	23.5 x 25	23.5 R 25
A	10' 3.5" (3.14 m)	10' 3" (3.12 m)
В	6' 7.75" (2.03 m)	6' 9.5" (2.06 m)
C	11' 11.75" (3.65 m)	12' 1.5" (3.70 m)
Ð.	7.75" (0.20 m)	7" (0.18 m)
E	10" (0.25 m)	11.75" (0.30 m)
F	10' 0.25" (3.05 m)	10' 2" (3.10 m))
G	7' 6" (2.29 m)	7' 7.75" (2.33 m
н	24°	24.8°
J	21°	22°
`ĸ	6' 6.75" (1.69 m)	6' 8.5" (1.74 m)
L	8' 3" (2.51 m)	8' 3" (2.51 m)





## WARNING

READ AND UNDERSTAND THE OPERATOR'S AND SAFETY MANUALS AND THE FOLLOWING INSTRUCTIONS AND RATED LIFTING CAPACITIES BEFORE OPERATING 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 ASME B30.5 safety standards for cranes.
- 4. The rated lifting capacities are based on crane standing 2. level on firm supporting surface.

### SET UP:

- 1. 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 outrigger pontoons or tires to spread the load to a larger bearing surface.
- When making lifts on outriggers, all tires must be free of supporting surface. All outrigger beams must be extended to the same length; fully retracted. intermediate extended, or fully extended.
- 3. When operating on tires over the side, do not exceed 71° maximum boom angle. Loss of backward stability will occur causing a backward tipping condition.
- When making lifts on tires, they must be inflated to the recommended pressure. (See Operation note 20 and Tire Inflation.)
- 5. For required parts of line, see Wire Rope Capacity and Winch Performance.
- Before setting up on intermediate outriggers, retracted outriggers, or tires, refer to Working Range Diagrams and rated lifting capacities to determine allowable crane 5. configurations.

### **OPERATION:**

- Rated lifting capacities at rated radii shall not be exceeded. Do not tip the crane to determine allowable loads. For concrete bucket operation, weight of bucket and load shall not exceed 80% of rated lifting capacities. For clamshell bucket operation, weight of bucket and bucket contents is restricted to a maximum weight of 6000 pounds or 80% of rated lifting capacity, whichever is less. For magnet operation, weight of magnet and load is restricted to a maximum weight of 6000 pounds or 80% of rated lifting capacity, whichever is less. For clamshell and magnet operation, maximum boom length is restricted to 50 feet and the boom angle is restricted to a minimum of 35 degrees. Lifts with any fly erected are prohibited for both clam and magnet operation.
- Rated lifting capacities shown on fully extended outriggers do not exceed 85% of the tipping loads. Rated lifting capacities shown on intermediate extended or fully retracted outriggers are determined by the formula, rated load = (tipping load - 0.1 X load factor) / 1.25. Rated lifting capacities shown on tires do not exceed 75% of the tipping loads. Tipping loads are determined by SAE crane stability test code J-765.
- Rated lifting capacities in the shaded areas are based on structural strength or hydraulic limitations and have been tested to meet minimum requirements of SAE J-1063 cantilevered boom crane structures-method of test. Rated lifting capacities in the non-shaded areas are based on stability ratings. Some capacities are limited by a maximum obtainable 78° boom angle.
- Rated lifting capacities include the weight of hook ball/block, slings, bucket, magnet and auxiliary lifting devices. Their weights must be subtracted from the listed rated capacity to obtain the net load that can be lifted. Rated lifting capacities include the deduct for either fly stowed on the base of the boom. For deducts of either fly erected, but not used, see Capacity Deductions For Auxiliary Load Handling Equipment.
- Rated lifting capacities are based on freely suspended loads. No attempt shall be made to move a load horizontally on the ground in any direction.
- 6. Rated lifting capacities are for lift crane service only.
- 7. Do not operate at radii or boom lengths (minimum or maximum) where capacities are not listed. At these positions, the crane can tip or cause boom failure.



- 8. The maximum loads that can be telescoped are not 18. For fly capacities with main boom length less than 90 definable because of variation in loadings and crane maintenance, but it is permissible to attempt retraction and extension within the limits of the applicable load rating chart.
- 9. For main boom capacities when either boom length or radius or both are between values listed, proceed as follows:
  - a. For boom lengths not listed, use rating for next longer boom length or next shorter boom length, whichever is
- b. For load radii not listed, use rating for next larger radius. 10. The user shall operate at reduced ratings to allow for adverse job conditions, such as: soft or uneven ground, out of level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, hazardous conditions, experience of personnel, traveling with loads, electrical wires, etc. Side load on boom or fly is
- dangerous and shall be avoided. 11. Shock loading the boom shall be avoided. However, in
- cold weather, if it is believed that shock loads may occur, rated capacities should be reduced by the following rule: a 1% reduction in rated capacities should be taken for each 1°F below 0°F.
- 12. When making lifts with auxiliary head machinery, the effective length of the boom increases by 2 feet.
- 13. Power sections of boom must be extended in accordance with boom mode "A" or "B". In boom mode "B" all power sections must be extended or retracted equally.
- 14. The least stable rated working area depends on the configuration of the crane set up.
- 15. Rated lifting capacities are based on correct reeying. 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 1 lb. for each extra foot of wire rope before attempting to lift
- 16. The loaded boom angle combined with the boom length give only an approximation of the operating radius. The boom angle, before loading, should be greater to account for deflection. For main boom capacities, the loaded boom angle is for reference only. For fly capacities, the load radius is for reference only.
- 17. For fly capacities with main boom length less than 110 ft. and greater than 90 ft., the rated loads are determined by the boom angle using the 110 ft. boom and fly chart. For angles not shown use the next lower boom angle to determine the rated capacity.

- ft. the rated loads are determined by the boom angle only using the 90 ft. boom and fly chart. For angles not shown, use the next lower boom angle to determine the rated capacity.
- 19. The 35.5 ft. boom length structural capacities are based on boom fully retracted. If the boom is not fully retracted, do not exceed capacities shown for the 40 ft. boom length.
- 20. Rated lifting capacities on tires depend on tire capacity, condition of tires, and tire air pressure. capacities require lifting from main boom head only on a smooth and level surface. Pick and carry operations are restricted to speed of 2.5 mph and creep. The boom must be centered over the front of the crane with two-position travel swing lock engaged and the load must be restrained from swinging. Lifts with any fly erected on tires are prohibited. For correct tire pressure, see Tire Inflation.

### **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.
- Loaded Boom Angle: X The angle between the boom base section and horizontal with freely suspended load at the rated radius.
- 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.
- Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.
- No Load Stability Limit: The radius or boom angle beyond which it is not permitted to position the boom because the crane can overturn without any load on the hook.
- 7. Load Factor: Load applied at the boom tip which gives the same moment effect as the boom mass.
- Creep: Crane movement limited to 200 ft. in a 30 minute period and not to exceed 1 mph maximum speed.



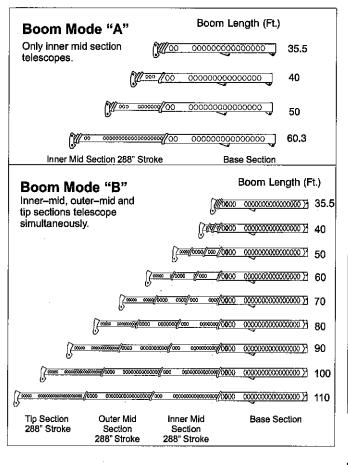
### TIRE INFLATION

Tire Size	Operation	Tire Pressure (psi)
00 5 7 05	Stationary	. 85
20.5 X 25 24 Ply Rating	Creep	· 85
27 Fly Italing	2.5 m.p.h.	85
00 5005	Stationary	102
20.5R25 2 Star Rating	Creep	102
	2.5 m.p.h.	102

### **PONTOON LOADINGS**

Maximum Pontoon Load	Maximum Pontoon Ground Bearing Pressure:
63,500 lb	213 psi

### **BOOM MODES**



### WIND SPEED RESTRICTIONS

If The Wind Speed Exceeds:	Rated Lifted Capacities Must Be Reduced By At Least:
20 MPH	40%
30 MPH	70%
40 MPH	Crane operation must be shutdown and the boom retracted and lowered to horizontal.

- Additional reductions are required for loads with large wind sail area
- These restrictions are based on machine on fully extended outriggers.
- The operator shall add 10° to all minimum boom angles due to no load stability and shall not boom down below that angle.

### **WINCH PERFORMANCE**

Winch Line Pulls		Drum Rope Capacity		
,	Two Speed Winch		(Ft.)	
Wire	Low Speed	High Speed		
Rope Layer	Available Lbs.*	Available Lbs.	Layer	Total
1	15,390	7,302	114	114
2	14,150	6,714	124	238
3	13,094	6,213	134	372
4	12,185	5,781	144	516
5	11,394	5,406	154	670
1	* Maxi ype RB Rope = 1	mum lifting capac 12,920 Type ZB	; city: Rope = 15,60	0

### WIRE ROPE CAPACITY

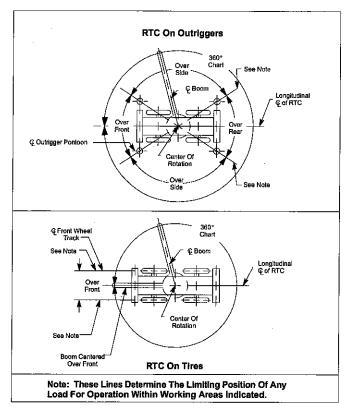
Maximum	Maximum Lifting Capacities Based On Wire Rope Strength				
Parts of	3/4"	3/4"			
Line	Type RB	Type ZB	Notes		
1	12,920	15,600	Capacities shown are in		
2	25,840	31,200	pounds and working loads must not exceed the rat-		
3	38,760	46,800	ings on the capacity charts		
4	51,680	62,400	in the Crane Rating Manual.		
5	64,600	78,000	Study Operator's Manual		
6	77,520	93,600	for wire rope inspection procedures and single part		
7	90,440	109,200	of line application.		
8	103,360	124,800			
LBCE	DESCRIPTION				
Type RB		18 x 19 Rotation Resistant – Compacted Strand – High Strength, Preformed, Right Regular Lay			
Type ZB	36 x 7 Rotation Resistant – Extra Improved Plow Steel – Right Regular Lay				

## HYDRAULIC CIRCUIT PRESSURE SETTINGS

Function	Pressure (psi)
Front And Rear Winch	3,500
Outrigger	3,000
Boom Hoist	3,500
Telescope	3,000
Swing	1,500
Steering	2,500
Pilot Control	500



### **WORKING AREAS**



## CAPACITY DEDUCTIONS FOR AUXILIARY LOAD HANDLING EQUIPMENT

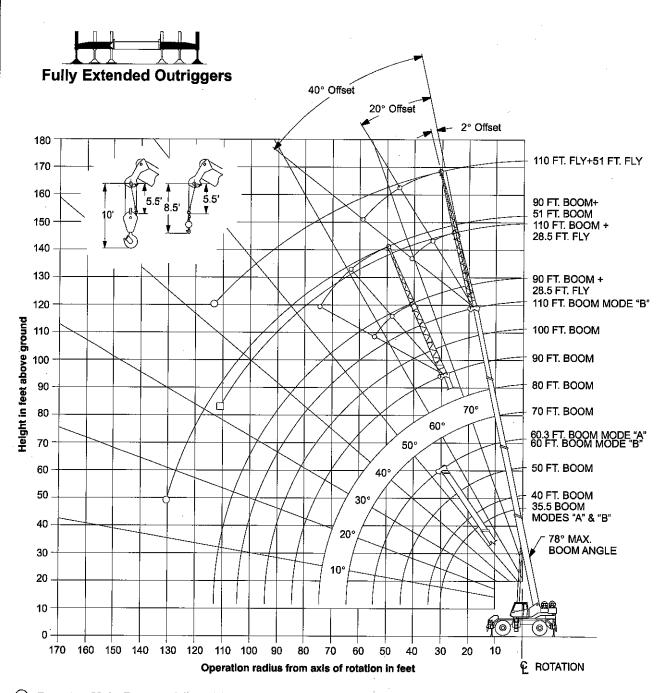
Load Handling Equipment	Weight (lbs)
Auxiliary Head Attached	100
40 Ton Quick Reeve 3 Sheave Hook Block (See Hook Block For Actual Weight)	720
60 Ton Quick Reeve 3 Sheave Hook Block (See Hook Block For Actual Weight)	1109
10 Ton Quick Reeve 3 Sheave Hook Block (See Hook Block For Actual Weight)	583
8.5 Ton Hook Ball (See Hook Ball For Actual Weight)	360

Lifting From Main Boom With:	
28.5 or 51 Ft. Fly Stowed on Boom Base (See operation note #4)	0
28.5 Ft. Offset Fly Erected But Not Used	3,200
51 Ft. Offset Fly Erected But Not Used	6,800

Lifting From 28.5 Ft. Offset Fly With:	
22.5 Ft. Fly Tip Erected But Not Used	PROHIBITED
22.5 Ft. Fly Tip Stowed On 28.5 Ft. Offset Fly	PROHIBITED
Note: Capacity deductions are Link-Belt supplied equipment o	for only.



## **WORKING RANGE DIAGRAM**



- O Denotes Main Boom + 51 Ft. Offset Fly-Boom Mode "B"
- ☐ Denotes Main Boom + 28.5 Ft. Offset Fly–Boom Mode "B"

Note: Boom and fly geometry shown are 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.



## **WARNING**

Do Not Lower The Boom Below The Minimum Boom Angle For No Load Stability As Shown in The Lift Charts For The Boom Lengths Given. Loss Of Stability Will Occur Causing A Tipping Condition.



Note: Refer To Page 5 For "Capacity Deductions For Auxiliary Load Handling. Equipment".  $\angle$  Loaded Boom Angle In Degrees. ( ) Reference Radius For Minimum Boom Angle Capacities (Shown In Parenthesis) Are In Feet.

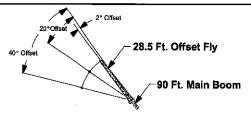
Rated Lifting Capa Pounds Fully Extended Out	riggers FL	JLL JLL	MAIN BOOM "A"
Fully Extended Out See Set Up Note 2		JLL	MAIN BOOM "A"

Load		35.5 Ft.			40 Ft.	
Radius (Ft.)	۲°	360°	Over Front	۲°	360°	Over Front
10	68.0	100,000	100,000	70.5	78,400	78,400
12	64.5	73,900	75,400	67.5	73,100	73,100
15	58.5	63,200	64,400	62.5	63,000	63,800
20	48.0	50,300	51,300	54.0	50,100	51,200
25	34.5	39,000	40,900	44.0	38,900	40,700
30				31.0	30,800	32,300
Min.Bm. Ang.Cap.	0 (30.0)	17,800	17,800	0 (34.5)	15,300	15,300
Load		50 Ft.			60.3 Ft.	
Radius (Ft.)	∡°	360°	Over Front	∡°	360°	Over Front
10	75.0	72,600	72,600		2 Sept. 1000	DECEMBER OF
12	72.5	65,600	65,600	76.5	50,900	50,900
15	69.0	57,500	57,500	73.5	46,900	46,900
20	62.5	47,600	47,600	68.5	39;200	39,200
25	55.5	38,500	40,200	63.0	33,400	33,400
30	48.0	30,500	32,100	57.5	28,700	28,700
35	39.0	24,800	26,100	51.0	24,600	25,200
40	27.5	19,100	20,400	44.0	18,900	20,200
45				36.0	14,900	16,000
50		Ì		26.0	11,800	12,800
Min.Bm. Ang.Cap.	0 (44.5)	10/100	10,100	0 (54.8)	6,500	6,500

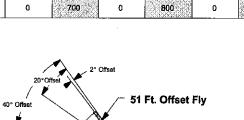
Rated Lifting Capacities In Pounds Fully Extended Outriggers See Set Up Note 2	FULL	MAIN BOOM "B"
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Load	1	35.5 Ft.		Τ	40 Ft.			50 Ft.	
Radius	×°	360°	Over	∡°	360°	Over	×°	360°	Over
(Ft.)	1	ļ	Front		ļ <u> </u>	Front		_	Front
10	68.0	100,000	-100,000	70.5	37,900	37,900	74.5	37,900	37,900
12	64.5	73,900	75,400	67.5	37,900	37,900	72.5	37,900	37,900
15	58.5	63,200	64,400	62.5	37,90D	37,900	69.0	37,900	37,900
20	48.0	50,300	51,300	54.0	37,900	37,900	62.5	37,900	37,900
25	34.5	39,000	40,900	44.0	37,900	37,900	55.5	37,900	37,900
30				31.0	31,300	32,900	48.0	31,900	33,500
35							39.0	26,100	27,500
40							27.5	20,800	22,100
Min.8m	0	2002 A 110	1000	0	(0.1)	6.65.0	0		146
Ang Cap	(30.0)	17,800	17,800	(34.5)	14,700	14,700	(44.5)	9,900	9,900
Load	<del> </del>	60 Ft.	200 200 000 00		70 Ft.	100 100 100	1	80 Ft.	
Radius	-/ 0	١,	Over	0	1	Over	, 0	T	Over
(FL)	ム	360°	Front	<u> </u>	360°	Front	X.	360°	Front
10	77.5	37,900	37,900						
12	76.D	37,900	37,900	78.0*	37,900	37,900			
15	73.0	37,900	37,900	76.0	37,900	37,900	78.0*	35,400	35,400
20	68.0	37,900	37,900	72.0	37,900	37,900	74.5	34,700	34,700
25	62.5	37,900	37,900	67.5	37,900	37,900	71.0	34,200	34,200
30	56.5	32,300	33,900	62.5	32,500	32,800	67.0	30,300	30,300
35	50.5	26,500	27,800	57.5	26,700	28,100	63.0	26,900	27,200
40	43.5	21,200	22,500	52.5	21,400	22,700	58.5	21,500	22,800
45	35.5	17,100	18,200	46.5	17,300	18,400	54.0	17,400	18,500
50	25.0	13,900	14,900	40.5	14,200	15,200	49.0	14,300	15,300
55				33.0	11,900	12,700	44.0	12,100	12,800
60				23.5	10,000	10,700	38.0	10,200	10,900
65					",		31.0	8,600	9,300
70							22.0	7,300	7,900
MinBm		0000 AND	SAMESTY DE		# Kent Asia	Sevadora		22370	4637(33347)
Ang	(54.5)	7,000	7,000	0 (64.5)	5,000	5,000	0 (74.5)	3,500	3,500
Cap	(5-11.5)				276	94.14	(14.0)	100	40.00
Load		90 Ft.			100 Ft.			110 Ft.	
Radius (Ft.)	∡°	360°	Over Front	∡°	360°	Over Front	∡°	360°	Over Front
20	77.0	28,900	28,900		3 35 79	900 E W X		71,221,6	1000
25	74.0	28,200	28,200	76.0	24,000	24,000	77.5	19,500	19,500
30 i	70.5	24,800	24,800	73.0	22,500	22,500	75.0	19,500	19,500
35	67.0	22,000	22,000	70.0	19,900	19,900	72.5	18,300	18,300
40	63.5	19,700	19,700	67.0	17,800	17,800	70.0	16,400	16,400
45	59.5	17,500	17,800	63.5	15,900	15,900	67.0	14,600	14,600
50	55.5	14,400	15,400	60.5	14,400	14,400	64.0	13,200	13,200
55	51.0	12,200	12,900	56.5	12,200	13,000	61.0	12,100	12,100
60	46.5	10,300	11,000	53.0	10,300	11,100	57.5	10,400	11,000
65	41.5	8,700	9,400	49.0	8,800	9,500	54.0	1 1	
70	36.0	7,500	8,100	44.5				8,900	9,600
			6,900		7,500	8,200	50.5	7,600	8,200
75 80	29.5	6,400 5,400		40.0	6,500	7,100 e 100	47.0	6,500	7,100
80	21.0	5,400	6,000	34.5	5,500	6,100	42.5	5,600	6,200
85				28.5	4,700	5,200	38.5	4,800	5,300
90				20.5	4,000	4,500	33.5	4,100	4,600
95							27.5	3,500	3,900
100		ana nasara					20.0	2,900	3,400
MinBm	0	2,400	2,400	0	1,600	1,600	0	900	900
Ang Cap	(84.5)			(94.5)			(104.5)		au





Fully E	Lifting Cap Extended C et Up Note		FULL			
Load	2°	Offset	20°	Offset	40°	Offset
Radius (Ft.)	×°	360°	x°	360°	∡°	360°
30	77.0	16,700		5.40		37.3096
35	74.5	14,200				240805009
40	72.0	13,400	75.5	10,500		a38686.38.5
45	69.5	12,700	73.0	10,100	76.5	7,900
50	67.0	12,100	70.5	9,600	73.5	7;600
55	64.5	11,500	68.0	9,100	71.0	7,400
60	61.5	10,600	65.0	8,700	68.0	7,200
65	58.5	9,700	62.0	8,300	65.0	7,000
70	55.0	8,400	59.0	8,000	62.0	6,800
75	52.0	7,300	56.0	7,700	58.5	6,700
80	48.5	6,400	52.5	6,800	55.0	6,600
85	44.5	5,500	48.5	5,900	51.0	6,100
90	40.5	4,800	44.0	5,100	46.5	5,300
95	36.0	4,200	39.5	4,400	41.0	4,500
100	31.0	3,600	34.5	3,800		
105	25.0	3,200	28.0	3,300		
110	16.5	2,700				
Min.Brn. Ang./Cap.	0	700	0	800	0	900

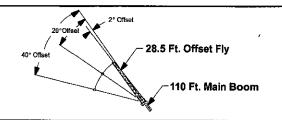


90 Ft. Main Boom

Fully E	Extended O et Up Note		FULL				
Load		Offset	20°	Offset	40° Offset		
Radius (Ft.)	×°	360°	∡°	360°	×°	360°	
35	78.0*	9,100		8 St. 1	<del></del>	0.802 (0.014.0)	
40	76.0	8,600		a Sala		15000000000	
45	74.0	8,100		A. 14		2 43.82	
50	72.0	7,500	78.0*	5,400			
55	70.0	7,000	75.5	5,100			
60	67.5	6,500	73.5	4,800		340.2	
65	65.5	6,100	71.5	4,600	77.0	3,600	
70	63.0	5,700	69.0	4,400	74.5	3,500	
75	61.0	5,400	66.5	4,200	72.0	3,400	
80	58.5	5,000	64.0	4,000	69.5	3,300	
85	56.0	4,800	61.5	3,800	66.5	3.300	
90	53.0	4,500	59.0	3,700	64.0	3,200	
95	50.5	4,300	56.0	3,600	61.0	3,100	
100	47.5	4,100	53.0	3,500	57.5	3,100	
105	44.5	3,700	50.0	3,300	54.0	3.100	
110	41.0	3,300	46.5	3,300	50.0	3,000	
115	37.0	2,900	43.0	3,200	46.0	3,000	
120	33.0	2,500	38.5	2,800	40.5	2,900	
125	28.0	2,200	33.0	2,400			
130	22.0	1,900	26.0	2,000			

WARNING

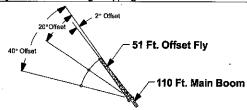
Do Not Lower 51 Ft. Offset Fly In Working Position Below 15.5° Main Boom Angle Unless Main Boom Length is 89 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.



		ng Capacities In nded Outriggers p Note 2	FULL				
Load	2°	Offset	20°	Offset	40°	Offset	
Radius (Ft.)	×°	360°	۲°	360°	×°	360°	
35	77.0	9,400		10 S T 40 PK (1)		3450000000	
40	75.5	9,400					
45	73.5	9,400	77.0	9,500			
50	71.5	9,400	75.0	9,100	78.0*	7:500	
55	69.5	9,200	73.0	8,400	76.0	7,300	
60	67.5	8,500	70.5	7,800	73.5	7,100	
65	65.0	7,900	68.5	7,300	71.0	8,900	
70	62.5	7,300	66.0	6,800	68.5	6,500	
75	60.0	6,800	63.5	6,400	66.0	6,100	
80	57.5	6,200	61.0	6,000	63.5	5,800	
85	54.5	5,300	58.0	5,700	60.5	5,500	
90	51.5	4,600	55.0	5,000	57.5	5,200	
95	48.5	4,000	52.0	4,300	54.5	4,600	
100	45.5	3,500	48.5	3,700	50.5	3,900	
105	42.0	3,000	45.0	3,200	47.0	3,300	
110	38.0	2,500	41.0	2,700	42.5	2,800	
115	34.0	2,100	37.0	2,300			

### **▲** WARNING

Do Not Lower 28.5 Ft. Offset Fly In Working Position Below 31.5° Main Boom Angle Unless Main Boom Length Is 98 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.



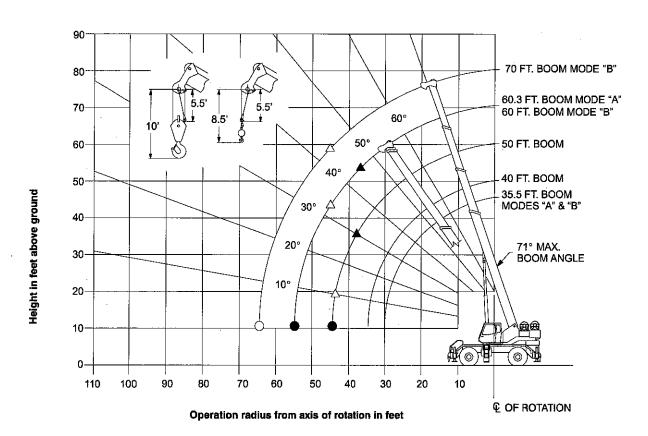
Load	2° (	Offset	20°	Offset	40° (	Offset
Radius (Ft.)	x°	360°	x°	360°	×°	360°
Fully	ed Lifting Ca / Extended Set Up Not		_ <del></del>	FULL	H	
45	77.0	6,200				100
50	75.5	6,200				
55	74.0	6,200				
60	72.5	6,200	77.5	4.800		
65	70.5	6,000	75.5	4,600		
70	68.5	5,700	73.5	4,400		30
75	66.5	5,300	72.0	4,300	76.5	3,400
80	64.5	4,900	70.0	4,100	74.5	3,400
85	62.5	4,600	68.0	4,000	72.5	3,300
90	60.5	4,300	66.0	3,800	70.0	3,200
95	58.5	4,000	63.5	3,700	68.0	3,200
100	56.0	3,800	61.5	3,500	65.5	3,100
105	53.5	3,500	59.0	3,300	63.0	3,100
110	51.0	3,000	56.5	3,200	60.5	3,000
115	48.5	2,600	54.0	3,000	57.5	2,900
120	45.5	2,200	51.0	2,600	54.5	2,800
125			47.5	2,200	51.0	2,400
130			44.5	1,900	47.0	2,000
		Α				

### **▲** WARNING

Do Not Lower 51 Ft. Offset Fly In Working Position Below 42.5° Main Boom Angle Unless Main Boom Length Is 89 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

## **WORKING RANGE DIAGRAM**





Crane Configurations Prohibited: Boom Lengths Greater than 71 FT. 28.5 FT. Offset Fly 51 FT. Offset Fly

- ▲ Denotes Main Boom 360° Boom Mode "A"
- △ Denotes Main Boom 360° Boom Mode "B"
- Denotes Main Boom Between Tire Tracks Or Centered Over Front Boom Mode "A"
- O Denotes Main Boom Between Tire Tracks Or Centered Over Front Boom Mode "B"

Note: 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.



Do Not Lower The Boom Below The Minimum Boom Angle For No Load Stability Or Raise Boom Above 71° As Shown In The Lift Charts For The Boom Lengths Given. Loss Of Stability Will Occur Causing A Tipping Condition.



Note: Refer To Page 5 For "Capacity Deductions For Auxiliary Load Handling. Equipment".  $\angle$  Loaded Boom Angle In Degrees. ( ) Reference Radius For Minimum Boom Angle Capacities (Shown In Parenthesis) Are In Feet.

On Tire Capacities in I Tire Pressure: See Pa	Pounds age 5	ON TIRES	<b>M</b> 00 00	000000000000000000000000000000000000000
Stationary Capacities Over Front Between T See Operation Note 2	îre Tracks 0	0 0	· MA	NIN BOOM "A"
Load	3	5 Ft.	40	Ft.
Radius (Ft.)	∡°	Load	∡°	Load
10	68.0	47,300	70.5	47,100
12	64.0	41,600	67.5	41,400
15	58.5	35,100	62.5	35,000
20	48.0 _	27,400	54.0	27,300
25	34.5	21,900	43.5	21,700
30			31.0	15,500
Min.Bm. Ang./Cap.	(30.0)	15,500	0 (34.5)	11,700
Load	5	0 Ft.	60.	3 Ft.
Radius (Ft.)	×°	Load	x°	Load
15	68.5	34,600		200
20	62.5	27,000	68.0	26,800
25	55.5	21,400	62.5	21,200
30	47.5	15,300	56.5	15,100
35	39.0	11,300	50.5	11,100
40	27.5	8,400	43.5	8,300
45			36.0	6,200
50		1	25.5	4,600
Min.Bm. Ang./Cap.	0 (44.5)	6,400	0 (54.8)	3,300

	pacities in Poun re: See Page 5		ON TIRES	ON TIRES			
Boom Cent See Operat	ered Over Front	i.	0	Ø	MAIN BO	OM "A"	
Load		35.5 Ft.			40 Ft.	<del>-</del> .	
Radius (Ft.)	Δ°	Creep	2.5 mph	∡°	Creep	2.5 mph	
10	68.0	44,100	38,800	70.5	43,900	38,600	
12	64.0	38,400	33,600	67.5	38,200	33,500	
15	58.5	31,800	27,600	62.5	31,600	27,500	
20	48.0	24,000	20,700	54.0	23,900	20,500	
25	34.5	18,600	15,800	43.5	18,500	15,700	
30				31.0	14,600	12,200	
Min.Bm. Ang./Cap.	0 30.0	14,600	12,200	0 34.5	11,700	9,700	
Load		50 Ft.			60.3 Ft.		
Radius (Ft.)	\( \delta^{\circ}	Creep	mph	∡°	Creep	2.5 mph	
15	68.5	31,300	27,200		32.00	2000	
20	62.0	23,600	20,300	68.0	23,400	20,100	
25	55.5	18,300	15,500	62.5	18,100	15,800	
30	47.5	14,400	12,100	56.5	14,300	11,900	
35	39.0	11,300	9,400	50.5	11,100	9,300	
40	27.5	8,400	7,300	43.5	8,300	7,200	
45				36.0	6,200	5,500	
50				25.5	4,600	4,100	
Min.Bm. Ang./Cap.	0 44.5	6,400	5,700	0 54.8	3,300	2,900	

On Tire Capacities In Tire Pressure: See P Stationary Capacities	Pounds age 5	ON T	TRES	0000 / 0	0 /0	٥(	200	
Over Front Between 1 See Operation Note 2		0	<u> </u>	<b>6</b>	MAIN	ВОС	)M "B"	
Load	35.5	i Ft.	40	) Ft.	-t. 50 Ft.			
Radius (Ft)	×°	Load	ع°	Load	X	٥	Load	
10	68.0	47,300	70.5	37,900				
12	64.0	41,600	67.5	37,900				
15	58.5	35,100	62.5	35,400	68.	5	35,800	
20	48.0	27,400	54.0	27,800	62.	0	28,200	
25	34.5	21,900	43.5	22,300	55.	5	22,900	
30			31.0	16,100	47.	5	16,700	
35					38.	5	12,600	
40					27.	5	9,700	
Min.Bm. Ang./Cap.	(30.0)	15,500	0 (34.5)	12,200	0 (44.	5)	7,700	
Load		60 Ft.		1	70 Ft.			
Radius (Ft.)	×°		Load	۲°		Load		
20	67.5	400	28,500	3	×	, K		
25	62.0	300	23,200	67.0	8	. 44	3,400	
30	56.5		17,100	62.0	ľ	1	7,200	
35	50.0		12,900	57.0		1	3,100	
40	43.0		10,100	52.0		1	0,300	
45	35.0		7,900	46.0			8,200	
50	25.0		6,300	40.0		1	6,500	
55		.		32.5		:	5,200	
60				23.0			4,200	
Min.Bm. Ang./Cap.	0 (54.5)		5,000	0 (64.5)			3,300	

On Tire Capacities in Pounds Tire Pressure: See Page 5 Pick & Carry Capacities Boom Centered Over Front.						RES	3	0000 [		00	//ö	<del></del>
See Opera	tion	Note 2		•				<del></del>	MAI	N BO		"B"
Load			35.5 F		. 0	40 F	<u>.                                    </u>		-	501	Ft.	
Radius (Ft.)	L	ĸ.	Creep	2.5 mph	X	Стеер		2.5 mph	∡ٌ	Cree	р	2.5 mph
10	6	8.0	44,100	38,800	70.5	37,900	2. Geo.	7,900			W.	
12	6	4.0	38,400	33,600	67.5	37,900	)   9	3,900		0 (89)		
15	5	8.5	31,800	27,600	62.5	32,000	) 2	7,900	68.5	32,4	90	28,300
20	4	8.0	24,000	20,700	53.5	24,300	) 2	1,000	62.0	24,7	OC.	21,400
25	3	4.5	18,600	15,800	43.5	19,000	1	6,200	55.0	19,5	Ю	16,700
30					31.0	15,100	ı ķı	2,700-	47.5	15,6	0	13,200
35							Т	,	38.5	12,60	00	10,600
40		,							27.5	9,70	0	8,500
Min.Bm Ang/ Cap		0 0.0)	14,600	12,200	0 (34.5)	12,200	)	0,200	0 (44.5)	7,70	0	6,900
Load				60 Ft.	•				70 I	t.		
Radius (Ft.)		2	₹ "	Creep	2.5	mph	2	∡°	Cre	ер	2	.5 mph
20		•	67.5	25,000	21	700			Q- 9		138	6.48
25		€	32.0	19,800	16,	900	6	36.5	19,9	00	3.2	7,100
30		٤	6.5	15,900	13	500	6	52.0	16,1	00 ×		3,700
35			0.0	12,900	10,	900		57.0	13,1	00		1,200
40		4	13.0	10,100	8,	900	5	52.0	10,3	00		9,100
45		3	5.0	7,900	7.	200	4	16.0	8,20	00		7,400
50		2	25.0	6,300	5.0	800	4	10.0	6,50	00		6,100.
55							3	32.5	5,20	00		4,900
60							2	23.0	4,20	00		3,900
Min.Bm. Ang./Car		(5	0 i4.5)	5,000	4,	700	(€	0 64.5)	3,30	)0		3,200



On Tire Capacities in Tire Pressure: See Pressure: See Pressure: See Pressure: See Operation Note 2	age 5 360 Degree	ON TIRES	<u> </u>	NIN BOOM "A"		
Load		5.5 Ft.		0 Ft.		
Radius (Ft.)	x°	Load	۲°	Load		
10	68.0	37,200	70.5	36,900		
12	64.0	31,100	67.5	30,900		
15	58.5	24,000	62,5	23,800		
20	48.0	14,500	53.5	14,300		
25	34.5	9,400	43.5	9,300		
30			31.0	6,100		
Min.Bm. Ang./Cap.	0 (30.0)	6,100	0 (34.5)	4,000		
Load	5	i0 Ft.	60	60.3 Ft.		
Radius (Ft.)	×°	Load	zı°	Load		
		60 Z.S. 60 Z.		\$2,000,000,000,000		
15	68.5	23,400		20 May 19 A		
20	62.0	14,000	67.5	13,800		
25	55.0	9,100	62.0	8,900		
30	47.5	5,900	56.5	5,800		
35	38.5	3,800	50.5	3,600		
Min.Bm, Ang./Cap.	30.0 (38.9)		45.5 (38.3)			

Do Not Raise Boom Above 71° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

On Tire Capacit	ies In See Pr	Pounds	4	360°	2000	// 00 //00	//00
Stationary Capa See Operation I	cities-	-360 Dean	ee .	ON TIRES	6	MAIN	воом "в"
Load	35.5 Ft.		i Ft.			50 Ft.	
Radius (Ft.)	2	×°	Load	×°	Load	×°	Load
10	- 1	68.0	37,200	70.5	37,400	74.5	37,700
12	(	64.0	31,100	67.5	31,400	72.5	31,800
15		58.5	24,000	62.5	24,400	68.5	24,900
20	،	48.0	14,500	53.5	14,800	62.0	15,400
25	:	34.5	9,400	43.5	9,800	55.0	10,300
30				31.0	6,600	47.5	7,100
35						38.5	5,000
40						27.5	3,400
Min,Bm. Ang./Cap.	(3	0 30.0)	6,100	0 (34.5)	4,500	10.0 (44.1)	
Load			60	Ft.		70 Ft.	
Radius (Ft.)		۲°		Load	X,	·	Load
				e di Carajo qu			TAMES OF RES
20		67.0		15,700	71.0	) 🕌	
25	25 62.		2.0	10,700	66.5		10,900
30		56.0		7,500	61.5	;	7,700
35		50.0		5,300	57.0	ı	5,500
40		43	3.0	3,700	51.5	;	3,900
45			5.0	2,500	46.0		2,700
Min.Bm. 33.0 Ang./Cap. (46.0)				43.5 (47.2			
д. с цр.		(	-·/		(47.2	,	

### A

#### WARNING

Do Not Ralse Boom Above 71° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.



P.U. Box 720 Niantic, CT 06357

Phone: (860) 739-4446 Fax: (860) 739-4448

## CERTIFICATE OF UNIT TEST AND/OR EXAMINATION OF CRANE, DERRICK, OR OTHER MATERIAL HANDLING DEVICE

ertificate Number: 11302 Type:	Annual	Owner's Identific	ition:2	
Owner: RJB Contracting, Inc.				
Owner's Address: 588 Winstead Road	City: Torrington	State	CT Zip: 06790	
Description: Crane 🗸 Derrick				
Location: (a) Remains at Worksite	(b) Changes Worksite	(c) On Barge		
If (a) or (c), Describe:				
Type: Hydraulic Rough Terrain Crane				
Manufacturer: Link-Beit	Model Number: RTC	050 Serial Num	ber: <u>E119-1149</u>	
Maximum Roted Canacity: 100,000 lb.				
Service Status at Time of Survey: Lifting:		Other (describs):		
Boom at Time of Survey: Length: 110'+56'	Type: <u>1</u>	lydraulic Telescopic w/Lat	ice Bifold SAW	
Test Loads Applied (cross out if only examination				
Radius Proof Load	Rated Load	Outriggers	Hoom Direction (over rear, over side)	
2.025 %	13,000 lb.	(yes, no) Yes	Over Front	
37.5' 3,925 lb. 89.4' 3,925 lb.	4,800 lb.	Yes	Over Front	
89.4' 3,925 lb. X	x	No	X	
Description of Proof Load: Concrete Desdman				
Basis for Assigned Load Ratings: Functional				
			•	
. Remarks and/or Limitations Imposed:				
Took	Indicator	Accuracy 2%		
	Indicator			
Туре				
I CERTIFY THAT ON	3/5/2014		THE ABOVE DEVICE WA	
□ EXAMINED AND TESTED, ☑ EXAMINE	D. BY THE UNDERSIGNED	OR HIS AUTHORIZED I	epresentative who,	
IN HIS OPINION, SAID THE UNIT MET THE	REQUIREMENTS OF	1926.1400		
IN HIS OPINION, SAID THE UNIT MEET THE	nucles Petrillo	HESCO	NUMBER: 104	
NAME OF AUTHORIZED EXAMINER: DO				
	7		alales-	
SIGNATORY AUTHORITY:	Edward & bry	rep	DATE: 3 6 1)	
ED SIGNATORI ACTUONITY	WARD A. SHAPIRO PRESII	DENT	:	

MEMBER CRANE CERTIFICATION ASSOCIATION OF AMERICA

## MOBILE CRANE INSPECTION EVALUATION

Customer 878 Carrier	TINIC INC	Date 3/6/15
Manufacturer LINK BY	,	N Annual
Model/Serial Number 8768050	15112-1149	☐ Quadrennial
Type HYDNAULIC ROUGH:	TERRAIN CRANE	□ Special
Customer# A Max.	Capacity/20000 //	PCSA Class
Inspection Criteria □ 1910.180 □ 19	19 1926.1400	Hours 5887
Equipment Location TORRINGTO	N. CT	Changes Worksite
Type of service at the time of survey_		- Village World
Boom & Jib lengths at the time of survey	110'+56	
Boom & Jib construction HYMANIC	TELESTAPIL WILLIAM	TICE BIFALT SAW
		KE WIND SAW
	·	
7	GENERAL	
Capacity Chart	Telescoping Length Inc	licator
Controls Marked	Load Indicator	<del></del>
Operators Manual	Anti-Two Block Alarm	Control
Log Book-Insp., Maint., Repairs	Cab and Safety Glass	7
Proximity Warning Decals	Ladder/Hand Holds	
Hand Signal Decal	Levels	<del>'</del> /,
Signal Horn	Exhaust Pipes and Guar	rds 37
Backup-Alarm Sware	Machinery Guards	·
Swing Barricade	Fuel Filler (Location)	
Fire Extinguisher	Appearance/Housekeep	ing
Boom Angle Indicator_ECE	Instrument Check	
LMI MORO SURAN 434		
	•	·

	<u>MACHINERY</u>	
Controls Operational	Swing Mechanism/Circle	$\sim$
Brakes/Clutches- Hyd./Man./Air	Swing Brakes & Travel Locks	· <del>*</del>
Drums & Laggings	Travel Mechanism/Chains	a ch
Drum Guards	Travel Brakes	16/2
Drum Rotation Indicators	Hydraulic System/Leaks	77
Main Hydraulic Winch	Air System/Leaks	-dil
Aux. Hydraulic Winch	Pressure Settings	
Boom Hoist Pawl	a Carbody/Carrier	ઁ .
Boom Hoist Kickout	Revolving Frame	寸
Power Load Lowering	Gantry/Mast	
Brake Locks & Dogs	Master Clutch	reje
Outriggers & Float Locks	All Shafts & Pins	May

FRONT

—— <del>———————————————————————————————————</del>		ATTACI	IMENTS		/
			ving	-	<u>V</u> ,
Boom	_		om Stops		A Lig
Boom Hinge Pin	IS		pe Socket		<u>, v</u>
oint Sheaves	<b>V</b>	· Cai	ble Clam	)S	<u> </u>
heave Guards	.•		Tracks	& Pads	<u> </u>
ib/Boom Exten	SION	\//	unterweig		
ib Stops	•		Hook		
look & Block	المام المستعدد	~	TIVOM		•
Weight & Capac	Hies on Tacki	e <u>v</u>			
			TODE		
			ROPE	Condition	Action
Rope Location	Measured	Construction	١ ٢	OUGHTON	
- ·	Diameter	- 1	<del> </del>		- Brew
<del>Vain</del> Hoist	3/4"	358/		SEMONED DE	7 1569/
Aux. Hoist	3/4"	3527	<u> 50</u>	00	
3rd Drum			<del> </del> -		
Boom Hoist			<del>                                     </del>		
Pendants			<del> </del>		
		<u> </u>	<u></u>		
		ARTIAL LOAD			<u> </u>
Radi Load 1 37 Load 2 87.7	5 3,93	Load Rated I 25 // /300 5 // 4,800	201. 211.	<u> </u>	OVER FRONT OVER FRONT DOMAN
Description of	Load:				
Basis for assign	ed load rating	gs:	J. CANA	TONEL	
				1	
<del></del>	Throat Openia		OOKS	Wear	Twist
Main Load	2%			./_	
Aux. Load	/ _				
Aux. Block					
Notes:					
				2-1	
				MA	<u> 104 </u>
			HESCO Î	Representative	HESCO#
•					100 À

V=Accepted Ci=Rejected NA=Not Applicable
This is a work sheet, not a certificate.
WARNING: There may be other components on your machine that should be checked.
Rev. 9/97

Niantic, CT. 06357

Phone: 860/739-4446

Fax: 860/739-4448

### LOCAL ACKNOWLEDGMENT OF ATTENDANCE BY HESCO

Description of Equipment Tested and/or Examined on:
(Date)
(1) Owned/Operated by: AUG CONTRACTING, INC.
(2) Owner Identification of Crane
(3) Location of Unit: Tomeway CT
(4) Type of Unit: KIMAUCK ROUGH TERRAIN CHANG
(5) Manufacturer:
Description of Procedures Completed (Complete or check as appropriate)
(1) This is to Record That;
a) Load Testing, Operational Testing and Examination
b)Operational Testing and Examination
c) Load Indicating Device Checks for Accuracy
. d) Other
(2) Were Completed with Referral to Associated Regulations of:
USDOL/OSHA. /926./400 Other
(3) A Report of these Procedures will be Submitted to the Administrative Office for Evaluation and Processing.  a) Based on Previous Certification by
a) Based on Previous Certification by Sertificate Number Sertificate Number Sertificate Date 3/9/14
b) Other Data:
Manufacturers Design Rating(s):
Owner Warranty
Other (explain)
Odes (Oxpress)
(4) a) $\sqrt{\ }$ A HESCO Certification for:
Annual Special
b) A HBSCO Deficiency Report is attached. Upon Correction of Deficiencies, Sign and
forward the Report for Issuance of a HESCO Certification.
c) A HESCO Certification pending Category I & II Deficiency Mitigation (Deficiency Report Attached)
(5) a) A HESCO Monthly Inspection Report
b)An Unsatisfactory Condition Report
a)—
104 3/6/14
HESCO Attending Representative HESCO # Date
•
Responsible Site Representative Signature Date

Link-Belt Constructon Equipment Co., Lexington, Kentucky - RTC-8050 (E1) Unit: English Model RTC-8050 (E1) Telescopic Boom with 13,000# CTWT Mode B Boom on Fully Ext. O/R 5590 lb load @ 70 ft radius 105 ft boom + 0 FT fly, w / 1 DEG fly offset 45.8° boom angle Pontoon area: 452 in<sup>2</sup> 96,165 lb gross vehicle weight (GVW) Date: 1/12/2015 - v 1.0 Rear O/R Max Load: 90,500 lb; Front O/R Max Load: 90,500 lb; 7449 lb 8826 lb 7219 lb Front 40328 lb Front 40633 lb 39255 lb 8786 lb 39831 lb Rear Slew Angle + 0.0 deg Slew Angle = 90.0 deg 23920 **l**b 7449 lb 1715 lb 8826 lb Front Front 48000 lb 22528 lb 40633 lb 39255 Љ Slew Angle = 3120 deg Slew Angle 10.0 deg 0.0 Set Slew Angle: Click & Drag the Boom or Input Slew Angle Slew Angle For Highest O/R Reaction

O/R Reaction Over 360° (Based on Input & Crane Config)					
Right Front	Right Rear	Left Rear	Left Front		
46,293 lb	45,953 lb	48,000 lb	44,251 lb		

CAUTION: DO NOT USE FOR CAPACITIES!