

# Lifting Capacities

Telescopic Boom Rough Terrain Crane

# RTC-8050 Series II

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

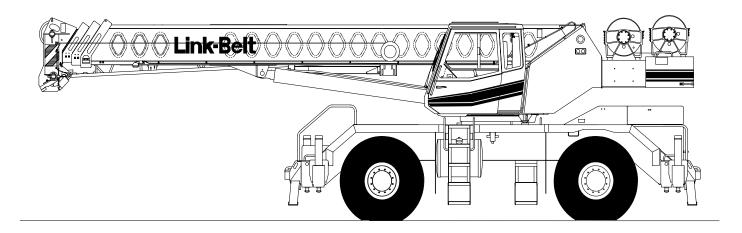
Boom and Fly Capacities for this machine are listed by the following sections.

#### **Fully Extended Outriggers**

- Working Range Diagram
- 35.5' to 60.3' (10.82 18.38 m) Main Boom Capacities, "A-max" Mode
- 35.5' to 110' (10.82 33.53 m) Main Boom Capacities, Basic Mode "B"
- 28.5' (8.69 m) One-piece Fly Capacities, Basic Mode "B"
- 28.5' to 51' (8.69 15.54 m) Two-piece Fly Capacities, Basic Mode "B"

#### **On Tires**

- Working Range Diagram
- 35.5' to 60.3' (10.82 18.38 m) Main Boom Capacities, "A-max" Mode
- 35.5' to 70' (10.82 21.34 m) Main Boom Capacities, Basic Mode "B"



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 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 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.
- 2. 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.
- 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.
- 4. 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.
- 6. Before setting up on intermediate outriggers, retracted outriggers, or tires, refer to Working Range Diagrams and rated lifting capacities to determine allowable crane configurations.

#### **OPERATION:**

- Rated lifting capacities at rated radii shall not be 1. 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.
- 2. 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  $0.1 \times 1000 \text{ factor} / 1.25$ . 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.
- 4. 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.
- 5. 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. 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 smaller.

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 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 1 lb. for each extra foot of wire rope before attempting to lift a load.
- 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.

- The maximum loads that can be telescoped are not 18. For fly capacities with main boom length less than 90 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. On tire 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.
- 2. Loaded Boom Angle:  $\measuredangle$  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.
- Freely Suspended Load: Load hanging free with no 4. 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.
- No Load Stability Limit: The radius or boom angle 6. 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.
- 8. Creep: Crane movement limited to 200 ft. in a 30 minute period and not to exceed 1 mph maximum speed.



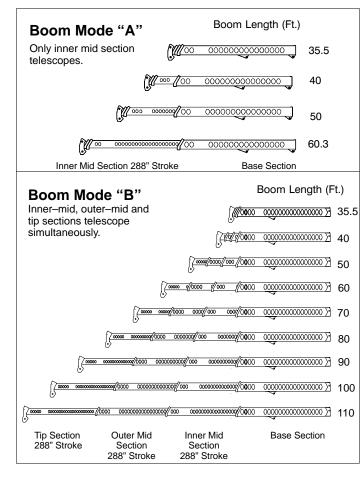
#### TIRE INFLATION

Tire Size	Operation	Tire Pressure (psi)
	Stationary	85
20.5 X 25 24 Ply Rating	Creep	85
24 Tiy Rading	2.5 m.p.h.	85
00 FD05	Stationary	102
20.5R25 2 Star Rating	Creep	102
2 Giai Maling	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.
<ul> <li>Additional reductions a area.</li> </ul>	are required for loads with large wind sail

- 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 Pu	Drum Rope Capacity					
	Two Spee	ed 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			
* Maximum lifting capacity: Type RB Rope = 12,920 Type ZB Rope = 15,600							

#### WIRE ROPE CAPACITY

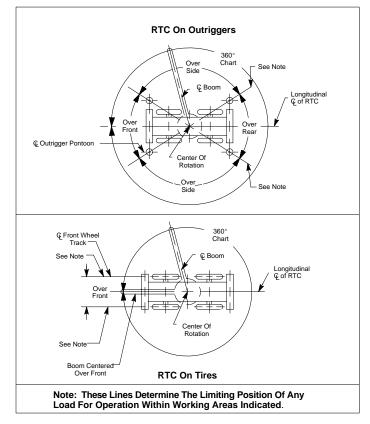
Maximum Lifting Capacities Based On Wire Rope Strength					
Parts of	3/4"	3/4"			
Line	Type RB	Type ZB	Notes		
1	12,920	15,600	Capacities shown are in		
2	25,840	31,200	pounds and working loads must not exceed the rat-		
3	38,760	46,800	ings on the capacity charts		
4	51,680	62,400	in the Crane Rating <b>Manual.</b>		
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	DESCRIF	PTION			
Type RB	18 x 19 R High Stre	18 x 19 Rotation Resistant – Compacted Strand – High Strength, Preformed, Right Regular Lay			
Type ZB		tation Resis	tant – Extra Improved Plow · 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

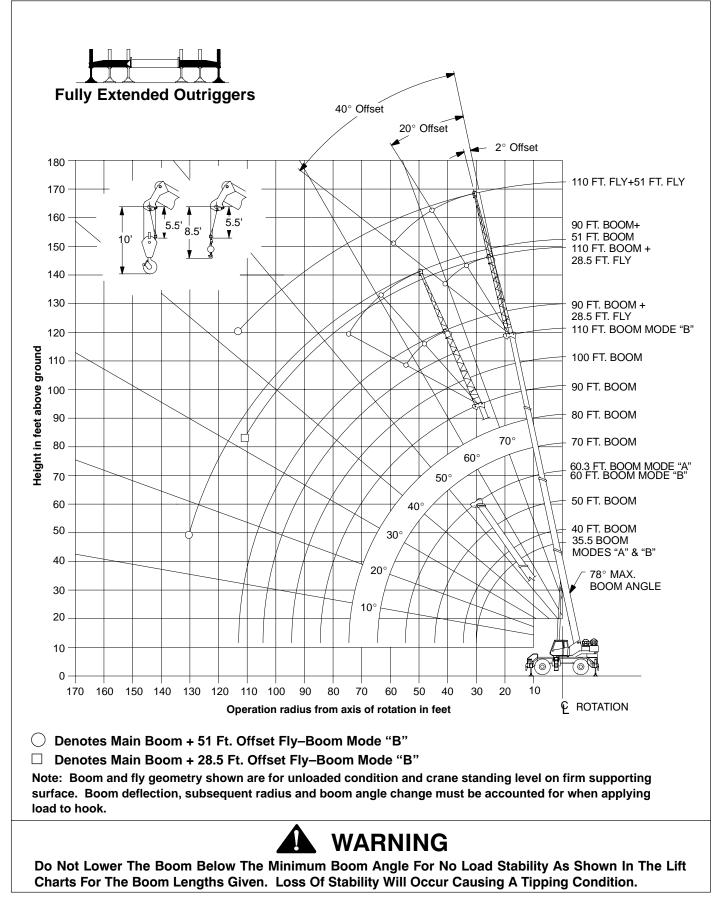
Load Handling Equipment	Weight (lbs)				
Auxiliary Head Attached	100				
40 Ton Quick Reeve 3 Sheave Hook Block (See Hook Block For Actual Weight)	720				
60 Ton Quick Reeve 3 Sheave Hook Block (See Hook Block For Actual Weight)	1109				
10 Ton Quick Reeve 3 Sheave Hook Block (See Hook Block For Actual 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 for Link–Belt supplied equipment only.



### WORKING RANGE DIAGRAM





°<u>/0000 // 00 //00 //00</u>

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

Rated Lifting Capacities In

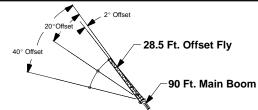
Pounds

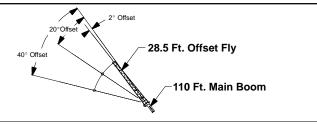
Pounds	g Capacities I ded Outrigger Note 2		FULL	L M	AIN BOOM	)
Load		35.5 Ft.			40 Ft.	
Radius (Ft.)	х°	360°	Over Front	×°	360°	Over Front
10	68.0	100,000	100,000	70.5	78,400	78,400
12	64.5	73,900	75,400	67.5	73,100	73,100
15	58.5	63,200	64,400	62.5	63,000	63,800
20	48.0	50,300	51,300	54.0	50,100	51,200
25	34.5	39,000	40,900	44.0	38,900	40,700
30				31.0	30,800	32,300
Min.Bm. Ang.Cap.	<b>0</b> (30.0)	17,800	17,800	0 (34.5)	15,300	15,300
Load		50 Ft.			60.3 Ft.	
Radius (Ft.)	చ <sup>°</sup>	360°	Over Front	చ <sup>°</sup>	360°	Over Front
10	75.0	72,600	72,600			
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				26.0	11,800	12,800
Min.Bm. Ang.Cap.	0 (44.5)	10,100	10,100	0 (54.8)	6,500	6,500

Γ

	ktended (	Outriggers		FULI		- 0			<u>,</u>
See Se	t Up Not	e Z							)
Load		35.5 Ft.			40 Ft.			50 Ft.	•
Radius (Ft.)	×°	360°	Over Front	×°	360°	Over Front	Ճ°	360°	Over 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	37,900	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.Bm	0			0			0		
Ang Cap	(30.0)	17,800	17,800	(34.5)	14,700	14,700	(44.5)	9,900	9,900
Load		60 Ft.			70 Ft.			80 Ft.	
Radius (Ft.)	Å	360°	Over Front	ێ °	360°	Over Front	۲°	360°	Over Front
10	77.5	37,900	37,900			TIOIR			TION
12	76.0	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 Ang Cap	<b>0</b> (54.5)	7,000	7,000	0 (64.5)	5,000	5,000	0 (74.5)	3,500	3,500
Load		90 Ft.			100 Ft.			110 Ft.	
Radius	×°	360°	Over	х°	360°	Over	۲°	360°	Over
(Ft.) 20	77.0	28,900	Front 28,900	4		Front	4		Front
25	74.0	28,200	28,200	76.0	24,000	24,000	77.5	19,500	19,500
30	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	8,900	9,600
70	36.0	7,500	8,100	44.5	7,500	8,200	50.5	7,600	8,200
75	29.5	6,400	6,900	40.0	6,500	7,100	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							20.0	2,900	3,400
MinBm Ang Cap	0 (84.5)	2,400	2,400	0 (94.5)	1,600	1,600	<b>0</b> (104.5)	900	900







Rated Lifting Capacities In Pounds H Fully Extended Outriggers FULL See Set Up Note 2 Offset 20 Offset 40° Offset Load Radius (Ft.) c エ 360° エ 360° エ 360° 77 0 16,700 30 35 74.5 14,200 40 72.0 13,400 10,500 75.5 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 64.5 11.500 68.0 9.100 71.0 7.400 55 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 8,400 70 55.0 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 36.0 4,200 39.5 4,400 41.0 4,500 95 100 31.0 3,600 34.5 3,800 105 25.0 3,200 28.0 3,300 2,700 110 16.5 Min.Bm. 0 700 800 0 900 0 Ang./Cap.

Rated Lifting Capacities In Pounds Fully Extended Outriggers See Set Up Note 2								
Load	2° C	offset	20°	Offset	40° (	Offset		
Radius (Ft.)	×°	360°	×°	360°	×°	360°		
35	77.0	9,400						
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	6,900		
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

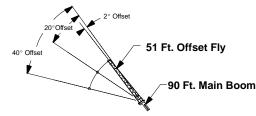
Do Not Lower 28.5 Ft. Offset Fly In Working Position Below 31.5° Main Boom Angle Unless Main Boom Length Is 98 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

2° Offset

20°Offset

ľ

Load Radius

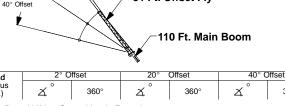


Fully E	Lifting Capa Extended Ou et Up Note 2	triggers	FULL				
Load	2° (	Offset	20°	Offset	40°	Offset	
Radius (Ft.)	×°	360°	×°	360°	×°	360°	
35	78.0*	9,100					
40	76.0	8,600					
45	74.0	8,100					
50	72.0	7,500	78.0*	5,400			
55	70.0	7,000	75.5	5,100			
60	67.5	6,500	73.5	4,800			
65	65.5	6,100	71.5	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.





51 Ft. Offset Fly

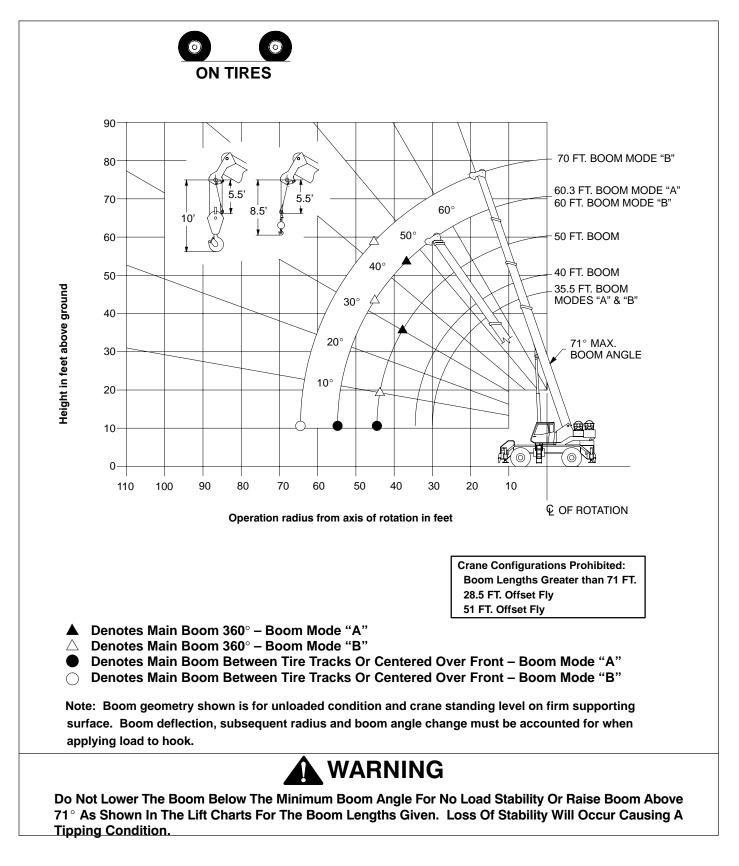
(Ft.)	X	360°	X	360°	X	360°			
Rated Lifting Capacities In Pounds Fully Extended Outriggers See Set Up Note 2									
45	77.0	6,200							
50	75.5	6,200							
55	74.0	6,200							
60	72.5	6,200	77.5	4,800					
65	70.5	6,000	75.5	4,600					
70	68.5	5,700	73.5	4,400					
75	66.5	5,300	72.0	4,300	76.5	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			
		Âv							

#### 📣 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





# Note: Refer To Page 5 For "Capacity Deductions For Auxiliary Load Handling. Equipment". $\measuredangle$ ° 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	<u> </u>	000000000000000000000000000000000000000		
Stationary Capacities Over Front Between T See Operation Note 20	ire Tracks	00	MA	IN 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.	0 (30.0)	15,500	0 (34.5)	11,700		
Load	5	0 Ft.	60.3	0.3 Ft.		
Radius (Ft.)	×°	Load	×°	Load		
15	68.5	34,600				
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			25.5	4,600		
Min.Bm. Ang./Cap.	0 (44.5)	6,400	0 (54.8)	3,300		

Tire Pressur Pick & Carry		5	ON TIRE	s 👸	000 00000000	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx		
Boom Cente See Operation	on Note 20	(	0	0	MAIN BOOM "A"			
Load		35.5 Ft.			40 Ft.			
Radius (Ft.)	х° х	Creep	2.5 mph	చ	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.	<b>0</b> 30.0	14,600	12,200	0 34.5	11,700	9,700		
Load		50 Ft.						
Radius (Ft.)	۲°	Creep	mph	× °	Creep	2.5 mph		
15	68.5	31,300	27,200					
20	62.0	23,600	20,300	68.0	23,400	20,100		
25	55.5	18,300	15,500	62.5	18,100	15,300		
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		

凶

68.5

62.0

55.0

47.5

38.5

27.5

0

(44.5) 70 Ft.

Creep

19,900

16,100

13,100

10,300

8,200

6,500

5,200

4,200

3,300

2.5

mph

37,900

33,900

27,900

21,000

16,200

12,700

10,200

ム

66.5

62.0

57.0

52.0

46.0 40.0

32.5

23.0

0 (64.5) MAIN BOOM "B"

50 Ft.

Creep

32,400

24,700

19,500

15,600

12,600

9,700

7,700

2.5

mph

28,300

21,400

16,700

13.200

10,600

8,500

6,900

2.5 mph

17,100

13,700 11,200

9,100

7,400

6,100

4,900

3,900

3,200

On Tire Capacities Ir Tire Pressure: See F Stationary Capacities	Page 5 s		ON TI		(° <u>/0000</u> //C	0 /00	_/00	On Tire Ca Tire Press Pick & Car Boom Cen See Opera	ire: See F ry Capacit tered Ove	Page 5 ies r Front.	0	ON TIF	RES O
Over Front Between See Operation Note		0	)	0	0	MAIN E	300M "B"	Load		35.5 Ft.			40 Ft.
Load	35.5	5 Ft.		40	Ft.		50 Ft.	Radius (Ft.)	×°	Creep	2.5 mph	۲°	Creep
Radius (Ft.)	۲°	Lo	ad	۲°	Load	۲°	Load	10	68.0	44,100	38,800	70.5	37,900
10	68.0	47.3	300	70.5	37,900			12	64.0	38,400	33,600	67.5	37,900
12	64.0	41.6		67.5	37,900			15	58.5	31,800	27,600	62.5	32,000
15	58.5	35.1		62.5	35,400	68.5	35.800	20	48.0	24,000	20,700	53.5	24,300
20	48.0	27.4		54.0	27,800	62.0	28,200	25	34.5	18,600	15,800	43.5	19,000
25	34.5	21.9		43.5	22,300	55.5	22,900	30				31.0	15,100
30	0.110	,,		31.0	16,100	47.5	16,700	35					
35						38.5	12,600	40					
40						27.5	9,700	Min.Bm	0			0	
Min.Bm. Ang./Cap.	<b>0</b> (30.0)	15,5	500	0 (34.5)	12,200	0 (44.5)	7,700	Ang/ Cap	(30.0)	14,600	12,200	(34.5)	12,200
Load	. ,	60	Ft.	, ,		70 Ft.		Load Radius		0	60 Ft.		
Radius (Ft.)	×°			Load	×°		Load	(Ft.)		<u>ズ</u> 67.5	Creep 25.000	-	mph ,700
20	67.5			28,500				25		62.0	19.800		,900
25	62.0		:	23,200	67.0		23,400	30		56.5	15,900		.500
30	56.5			17,100	62.0		17,200	35		50.0	12,900		.900
35	50.0			12,900	57.0		13,100	40		43.0	10,100		900
40	43.0			10,100	52.0		10,300	45		35.0	7.900		200
45	35.0			7,900	46.0		8,200	50		25.0	6.300		800
50	25.0			6,300	40.0		6,500	55		20.0	0,000	0,	000
55					32.5		5,200	60					
60					23.0		4,200	Min.Bm		0			
Min.Bm. Ang./Cap.	0 (54.5)			5,000	0 (64.5)		3,300	Ang./Ca		54.5)	5,000	4,	700



e Operation Note 20	)	ON TIRES		IN BOOM "A'	
Load	35	.5 Ft.	40	Ft.	
Radius (Ft.)	×°	Load	×°	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 9,300	
25	34.5	9,400	43.5		
30			31.0	6,100	
Min.Bm. Ang./Cap.	<b>0</b> (30.0)	6,100	0 (34.5)	4,000	
Load	50	) Ft.	60.	3 Ft.	
Radius (Ft.)	۲°	Load	۲°	Load	
15	68.5	23,400			
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.	<b>30.0</b> (38.9)		<b>45.5</b> (38.3)		
		WARNIN	G		

On Tire Capacitie Fire Pressure: S	ee Pa	ige 5		360°		20000	/ 00 (	//00	_/00_(	
Stationary Capao See Operation N	ote 20	-360 Degri )	e T	ON TIRES		U	MA	IN B	OOM "B"	
Load		35.5	i Ft.	40 Ft.				50	Ft.	
Radius (Ft.)	Ž	۲°	Load	×°		Load	X	0	Load	
10	6	68.0	37,200	70.5		37,400	74.5	5	37,700	
12	6	64.0	31,100	67.5		31,400	72.5	5	31,800	
15	5	58.5	24,000	62.5		24,400	68.5	5	24,900	
20	4	8.0	14,500	53.5		14,800	62.0	D	15,400	
25	3	84.5	9,400	43.5		9,800	9,800 55.0		10,300	
30				31.0		6,600	47.5	5	7,100	
35							38.5	5	5,000	
40							27.5		3,400	
Min.Bm. Ang./Cap.	(3	<b>0</b> 30.0)	6,100	0 (34.5)		4,500	10.0 (44.1			
Load			60 Ft.				70	Ft.		
Radius (Ft.)		2	٢°	Load	Load		×°		Load	
				45 300						
20		67.0		15,700		71.0				
25		62.0		10,700		66.5		10,900		
30		56.0		7,500	7,500		61.5		7,700	
35 5		5	0.0	5,300	5,300		57.0		5,500	
40	40 4		3.0	3,700	3,700 5		51.5		3,900	
45		3	5.0	2,500	2,500 46		.0 2		2,700	
Min.Bm. Ang./Cap.		-	<b>3.0</b> 6.0)			<b>43.</b> 5 (47.2				

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



Link-Belt Construction Equipment Company

Lexington, Kentucky www.linkbelt.com ® Link-Belt is a registered trademark. Copyright 2000. All rights reserved. We are constantly improving our products and therefore reserve the right to change designs and specifications.