

# Lifting Capacities

Telescopic Boom Rough Terrain Crane

## RTC-8050

50-ton (45.36 metric tons)

### Series II

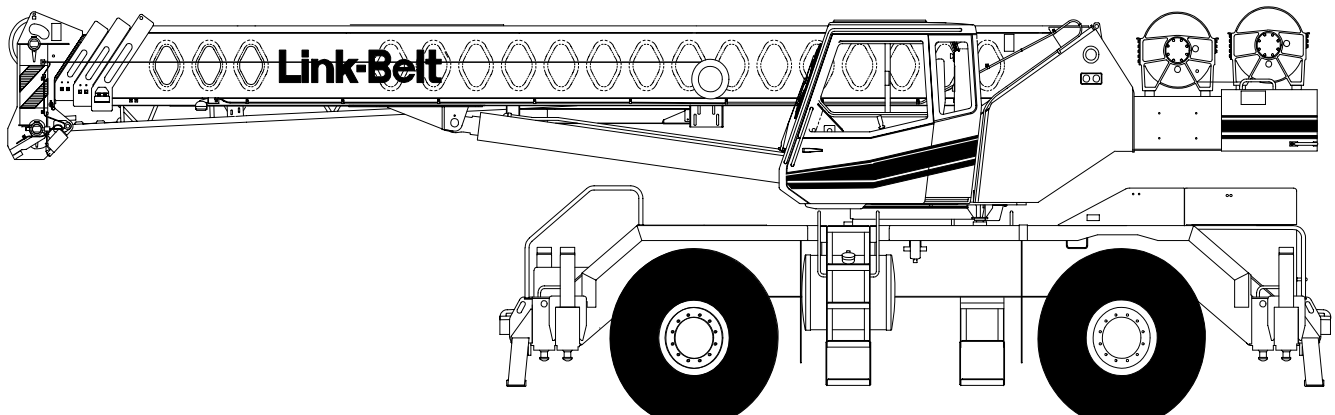
Boom and Fly Capacities for this machine are listed by the following sections.

#### 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.**



## 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.
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.
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:

1. 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.
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 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.
3. 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. The maximum loads that can be telescoped are not 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.
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:  $\angle$  ° 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.
6. 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.
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)
20.5 X 25 24 Ply Rating	Stationary	85
	Creep	85
	2.5 m.p.h.	85
20.5R25 2 Star Rating	Stationary	102
	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**

**Boom Mode "A"** Boom Length (Ft.)

Only inner mid section telescopes.

Boom Length (Ft.)
35.5
40
50
60.3

Inner Mid Section 288" Stroke      Base Section

---

**Boom Mode "B"** Boom Length (Ft.)

Inner-mid, outer-mid and tip sections telescope simultaneously.

Boom Length (Ft.)
35.5
40
50
60
70
80
90
100
110

Tip Section 288" Stroke      Outer Mid Section 288" Stroke      Inner Mid Section 288" Stroke      Base Section

**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**

Wire Rope Layer	Winch Line Pulls		Drum Rope Capacity (Ft.)	
	Two Speed Winch		Layer	Total
	Low Speed Available Lbs.*	High Speed Available Lbs.		
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**

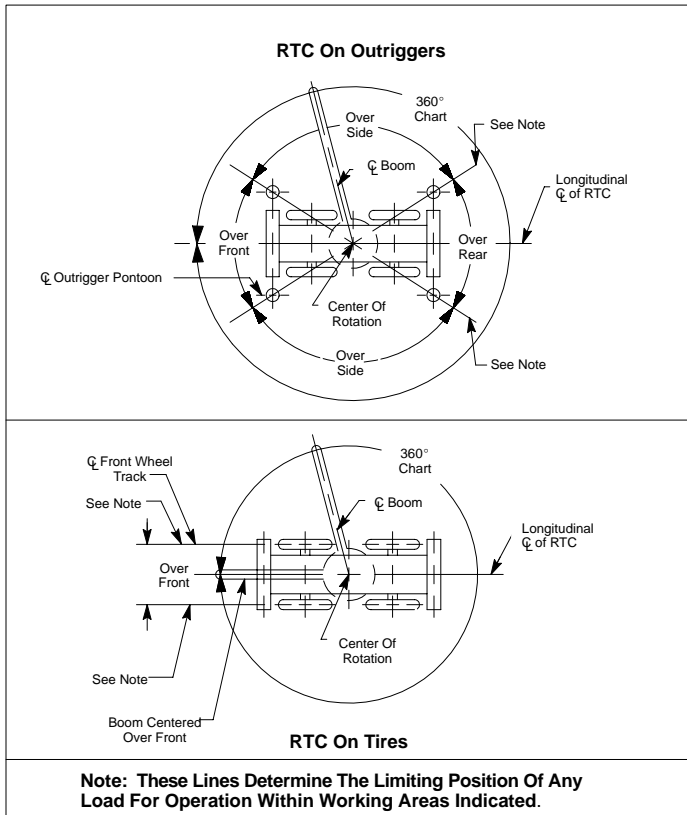
Maximum Lifting Capacities Based On Wire Rope Strength			
Parts of Line	3/4"		Notes
	Type RB	Type ZB	
1	12,920	15,600	Capacities shown are in pounds and working loads <b>must not exceed the ratings</b> on the capacity charts in the Crane Rating Manual.  Study Operator's Manual for wire rope inspection procedures and single part of line application.
2	25,840	31,200	
3	38,760	46,800	
4	51,680	62,400	
5	64,600	78,000	
6	77,520	93,600	
7	90,440	109,200	
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

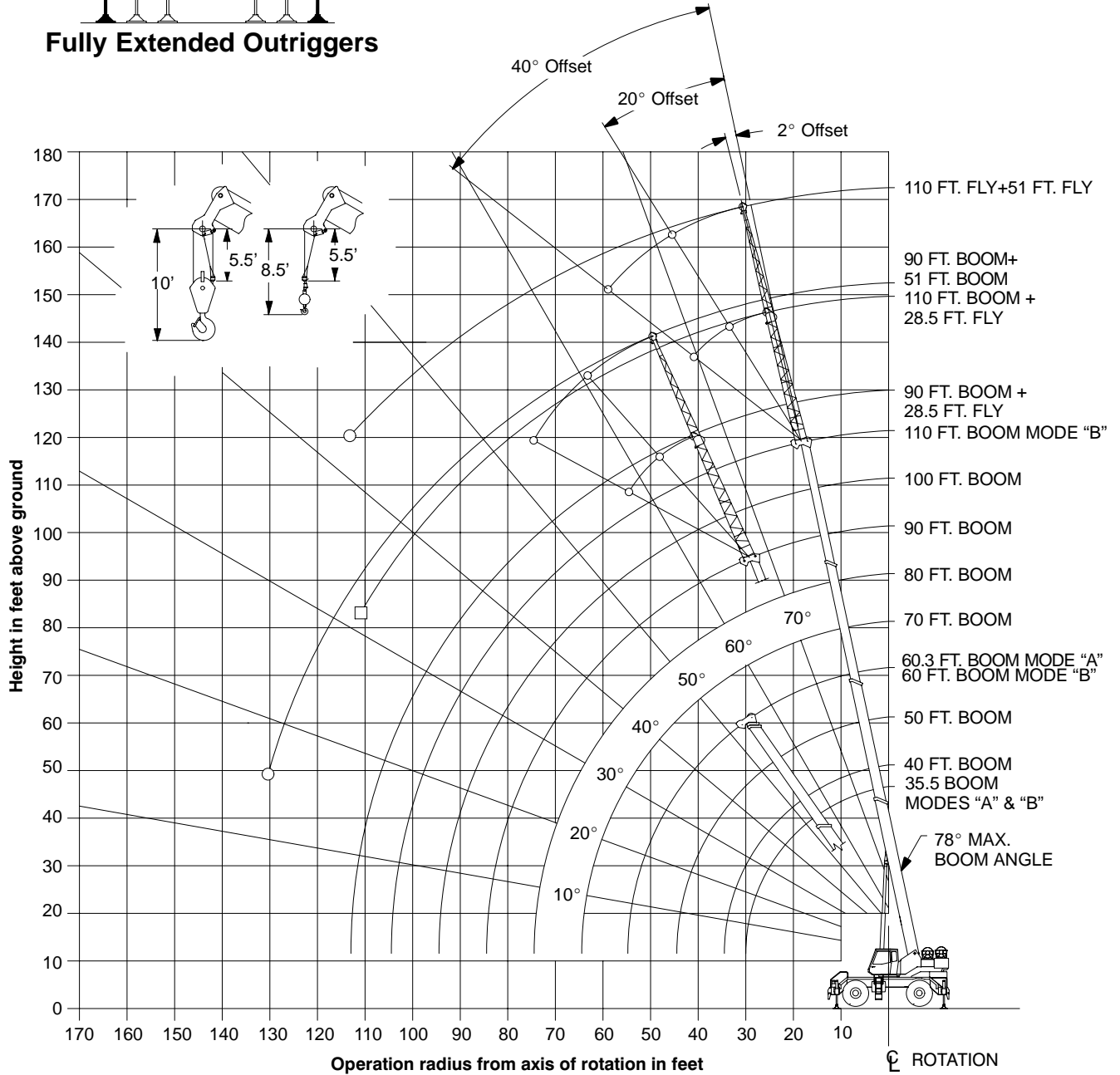
Lifting From Main Boom With:	
28.5 or 51 Ft. Fly Stowed on Boom Base (See operation note #4)	0
28.5 Ft. Offset Fly Erected But Not Used	3,200
51 Ft. Offset Fly Erected But Not Used	6,800

Lifting From 28.5 Ft. Offset Fly With:	
22.5 Ft. Fly Tip Erected But Not Used	<b>PROHIBITED</b>
22.5 Ft. Fly Tip Stowed On 28.5 Ft. Offset Fly	<b>PROHIBITED</b>

**Note: Capacity deductions are for Link-Belt supplied equipment only.**

# WORKING RANGE DIAGRAM

**Fully Extended Outriggers**



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

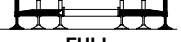
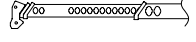
**Note:** Boom and fly geometry shown are for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius and boom angle change must be accounted for when applying load to hook.

## **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.**


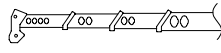
**Note: Refer To Page 5 For “Capacity Deductions For Auxiliary Load Handling. Equipment”.**  
 $\angle$  Loaded Boom Angle In Degrees. ( ) Reference Radius For Minimum Boom Angle Capacities (Shown In Parenthesis) Are In Feet.

Rated Lifting Capacities In Pounds  
Fully Extended Outriggers  
See Set Up Note 2

**FULL**                      **MAIN BOOM “A”**

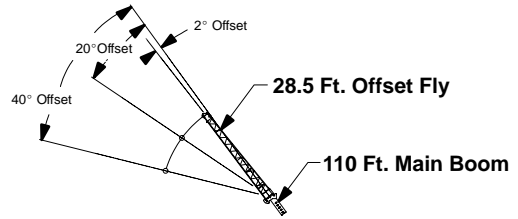
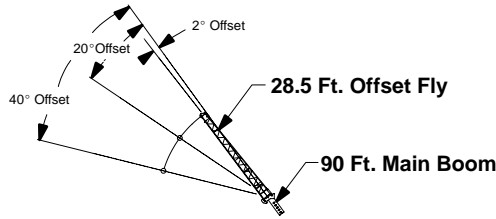
Rated Lifting Capacities In Pounds  
Fully Extended Outriggers  
See Set Up Note 2

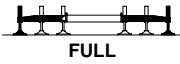
**FULL**                      **MAIN BOOM “B”**

Load Radius (Ft.)	35.5 Ft.			40 Ft.		
	$\angle$ °	360°	Over Front	$\angle$ °	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 Radius (Ft.)	50 Ft.			60.3 Ft.		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
10	75.0	72,600	72,600	76.5	50,900	50,900
12	72.5	65,600	65,600	73.5	46,900	46,900
15	69.0	57,500	57,500	68.5	39,200	39,200
20	62.5	47,600	47,600	63.0	33,400	33,400
25	55.5	38,500	40,200	57.5	28,700	28,700
30	48.0	30,500	32,100	51.0	24,600	25,200
35	39.0	24,800	26,100	44.0	18,900	20,200
40	27.5	19,100	20,400	36.0	14,900	16,000
45				26.0	11,800	12,800
50						
Min.Bm. Ang.Cap.	0 (44.5)	10,100	10,100	0 (54.8)	6,500	6,500

Load Radius (Ft.)	35.5 Ft.			40 Ft.			50 Ft.		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	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. Ang. Cap	0 (30.0)	17,800	17,800	0 (34.5)	14,700	14,700	0 (44.5)	9,900	9,900
Load Radius (Ft.)	60 Ft.			70 Ft.			80 Ft.		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
10	77.5	37,900	37,900						
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	0 (54.5)	7,000	7,000	0 (64.5)	5,000	5,000	0 (74.5)	3,500	3,500
Load Radius (Ft.)	90 Ft.			100 Ft.			110 Ft.		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
20	77.0	28,900	28,900						
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	0 (104.5)	900	900

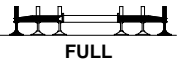


Rated Lifting Capacities In Pounds Fully Extended Outriggers See Set Up Note 2

 FULL

Load Radius (Ft.)	2° Offset		20° Offset		40° Offset	
	∠°	360°	∠°	360°	∠°	360°
30	77.0	16,700				
35	74.5	14,200				
40	72.0	13,400				
45	69.5	12,700				
50	67.0	12,100				
55	64.5	11,500				
60	61.5	10,600				
65	58.5	9,700				
70	55.0	8,400				
75	52.0	7,300				
80	48.5	6,400				
85	44.5	5,500				
90	40.5	4,800				
95	36.0	4,200				
100	31.0	3,600				
105	25.0	3,200				
110	16.5	2,700				
Min.Bm. Ang./Cap.	0	700	0	800	0	900

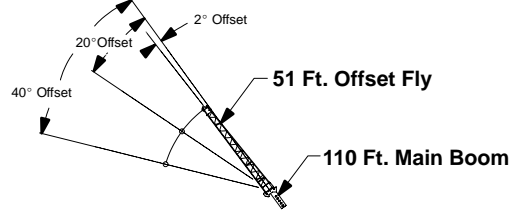
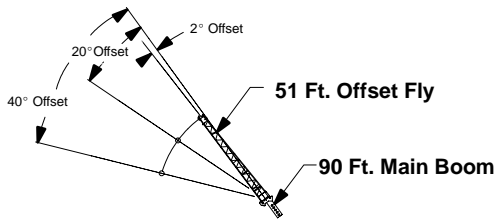
Rated Lifting Capacities In Pounds Fully Extended Outriggers See Set Up Note 2

 FULL

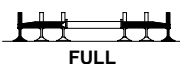
Load Radius (Ft.)	2° Offset		20° Offset		40° Offset	
	∠°	360°	∠°	360°	∠°	360°
35	77.0	9,400				
40	75.5	9,400				
45	73.5	9,400				
50	71.5	9,400				
55	69.5	9,200				
60	67.5	8,500				
65	65.0	7,900				
70	62.5	7,300				
75	60.0	6,800				
80	57.5	6,200				
85	54.5	5,300				
90	51.5	4,600				
95	48.5	4,000				
100	45.5	3,500				
105	42.0	3,000				
110	38.0	2,500				
115	34.0	2,100				

### 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.

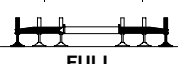


Rated Lifting Capacities In Pounds Fully Extended Outriggers See Set Up Note 2

 FULL

Load Radius (Ft.)	2° Offset		20° Offset		40° Offset	
	∠°	360°	∠°	360°	∠°	360°
35	78.0*	9,100				
40	76.0	8,600				
45	74.0	8,100				
50	72.0	7,500				
55	70.0	7,000				
60	67.5	6,500				
65	65.5	6,100				
70	63.0	5,700				
75	61.0	5,400				
80	58.5	5,000				
85	56.0	4,800				
90	53.0	4,500				
95	50.5	4,300				
100	47.5	4,100				
105	44.5	3,700				
110	41.0	3,300				
115	37.0	2,900				
120	33.0	2,500				
125	28.0	2,200				
130	22.0	1,900				

Rated Lifting Capacities In Pounds Fully Extended Outriggers See Set Up Note 2

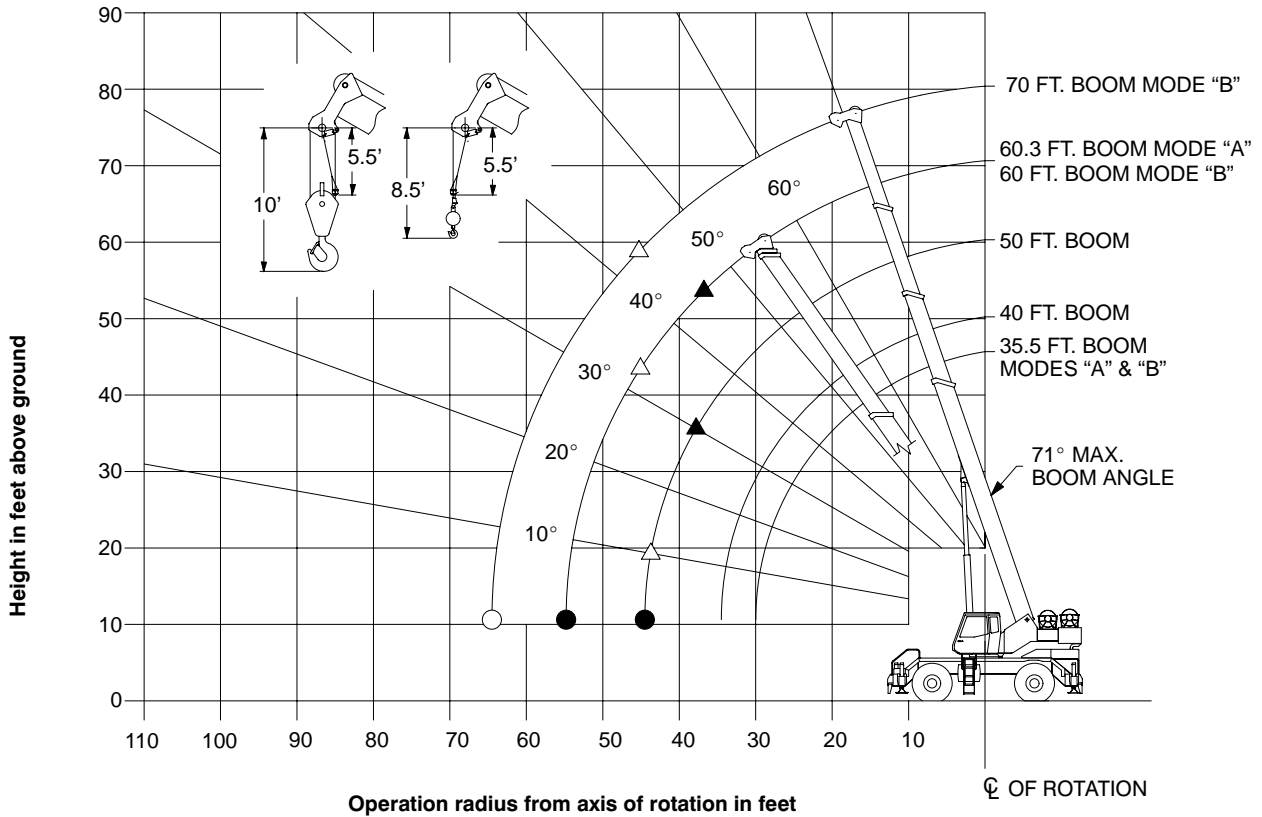
 FULL

Load Radius (Ft.)	2° Offset		20° Offset		40° Offset	
	∠°	360°	∠°	360°	∠°	360°
45	77.0	6,200				
50	75.5	6,200				
55	74.0	6,200				
60	72.5	6,200				
65	70.5	6,000				
70	68.5	5,700				
75	66.5	5,300				
80	64.5	4,900				
85	62.5	4,600				
90	60.5	4,300				
95	58.5	4,000				
100	56.0	3,800				
105	53.5	3,500				
110	51.0	3,000				
115	48.5	2,600				
120	45.5	2,200				
125						
130						

### 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"
- 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.

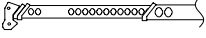
## **WARNING**

**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 Pounds  
Tire Pressure: See Page 5  
Stationary Capacities  
Over Front Between Tire Tracks  
See Operation Note 20

**ON TIRES**

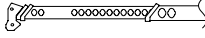


**MAIN BOOM "A"**

Load Radius (Ft.)	35 Ft.		40 Ft.	
	$\angle$ °	Load	$\angle$ °	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
<b>Min.Bm. Ang./Cap.</b>	<b>0 (30.0)</b>	<b>15,500</b>	<b>0 (34.5)</b>	<b>11,700</b>
Load Radius (Ft.)	50 Ft.		60.3 Ft.	
	$\angle$ °	Load	$\angle$ °	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
<b>Min.Bm. Ang./Cap.</b>	<b>0 (44.5)</b>	<b>6,400</b>	<b>0 (54.8)</b>	<b>3,300</b>

On Tire Capacities In Pounds  
Tire Pressure: See Page 5  
Pick & Carry Capacities  
Boom Centered Over Front.  
See Operation Note 20

**ON TIRES**

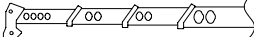


**MAIN BOOM "A"**

Load Radius (Ft.)	35.5 Ft.			40 Ft.		
	$\angle$ °	Creep	2.5 mph	$\angle$ °	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
<b>Min.Bm. Ang./Cap.</b>	<b>0 (30.0)</b>	<b>14,600</b>	<b>12,200</b>	<b>0 (34.5)</b>	<b>11,700</b>	<b>9,700</b>
Load Radius (Ft.)	50 Ft.			60.3 Ft.		
	$\angle$ °	Creep	mph	$\angle$ °	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
<b>Min.Bm. Ang./Cap.</b>	<b>0 (44.5)</b>	<b>6,400</b>	<b>5,700</b>	<b>0 (54.8)</b>	<b>3,300</b>	<b>2,900</b>

On Tire Capacities In Pounds  
Tire Pressure: See Page 5  
Stationary Capacities  
Over Front Between Tire Tracks  
See Operation Note 20

**ON TIRES**

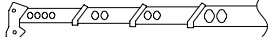


**MAIN BOOM "B"**

Load Radius (Ft.)	35 Ft.		40 Ft.		50 Ft.	
	$\angle$ °	Load	$\angle$ °	Load	$\angle$ °	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
<b>Min.Bm. Ang./Cap.</b>	<b>0 (30.0)</b>	<b>15,500</b>	<b>0 (34.5)</b>	<b>12,200</b>	<b>0 (44.5)</b>	<b>7,700</b>
Load Radius (Ft.)	60 Ft.		70 Ft.			
	$\angle$ °	Load	$\angle$ °	Load		
20	67.5	28,500				
25	62.0	23,200	67.0	23,400		
30	56.5	17,100	62.0	17,200		
35	50.0	12,900	57.0	13,100		
40	43.0	10,100	52.0	10,300		
45	35.0	7,900	46.0	8,200		
50	25.0	6,300	40.0	6,500		
55			32.5	5,200		
60			23.0	4,200		
<b>Min.Bm. Ang./Cap.</b>	<b>0 (54.5)</b>	<b>5,000</b>	<b>0 (64.5)</b>	<b>3,300</b>		

On Tire Capacities In Pounds  
Tire Pressure: See Page 5  
Pick & Carry Capacities  
Boom Centered Over Front.  
See Operation Note 20

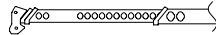
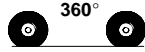
**ON TIRES**



**MAIN BOOM "B"**

Load Radius (Ft.)	35.5 Ft.			40 Ft.			50 Ft.		
	$\angle$ °	Creep	2.5 mph	$\angle$ °	Creep	2.5 mph	$\angle$ °	Creep	2.5 mph
10	68.0	44,100	38,800	70.5	37,900	37,900			
12	64.0	38,400	33,600	67.5	37,900	33,900			
15	58.5	31,800	27,600	62.5	32,000	27,900	68.5	32,400	28,300
20	48.0	24,000	20,700	53.5	24,300	21,000	62.0	24,700	21,400
25	34.5	18,600	15,800	43.5	19,000	16,200	55.0	19,500	16,700
30				31.0	15,100	12,700	47.5	15,600	13,200
35							38.5	12,600	10,600
40							27.5	9,700	8,500
<b>Min.Bm. Ang./Cap.</b>	<b>0 (30.0)</b>	<b>14,600</b>	<b>12,200</b>	<b>0 (34.5)</b>	<b>12,200</b>	<b>10,200</b>	<b>0 (44.5)</b>	<b>7,700</b>	<b>6,900</b>
Load Radius (Ft.)	60 Ft.			70 Ft.					
	$\angle$ °	Creep	2.5 mph	$\angle$ °	Creep	2.5 mph			
20	67.5	25,000	21,700						
25	62.0	19,800	16,900	66.5	19,900	17,100			
30	56.5	15,900	13,500	62.0	16,100	13,700			
35	50.0	12,900	10,900	57.0	13,100	11,200			
40	43.0	10,100	8,900	52.0	10,300	9,100			
45	35.0	7,900	7,200	46.0	8,200	7,400			
50	25.0	6,300	5,800	40.0	6,500	6,100			
55				32.5	5,200	4,900			
60				23.0	4,200	3,900			
<b>Min.Bm. Ang./Cap.</b>	<b>0 (54.5)</b>	<b>5,000</b>	<b>4,700</b>	<b>0 (64.5)</b>	<b>3,300</b>	<b>3,200</b>			

On Tire Capacities In Pounds  
Tire Pressure: See Page 5  
Stationary Capacities – 360 Degree  
See Operation Note 20



**ON TIRES**

**MAIN BOOM "A"**

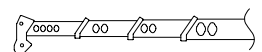
Load Radius (Ft.)	35.5 Ft.		40 Ft.	
	∠ °	Load	∠ °	Load
10	68.0	37,200	70.5	36,900
12	64.0	31,100	67.5	30,900
15	58.5	24,000	62.5	23,800
20	48.0	14,500	53.5	14,300
25	34.5	9,400	43.5	9,300
30			31.0	6,100
<b>Min.Bm. Ang./Cap.</b>	<b>0 (30.0)</b>	<b>6,100</b>	<b>0 (34.5)</b>	<b>4,000</b>
Load Radius (Ft.)	50 Ft.		60.3 Ft.	
	∠ °	Load	∠ °	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
<b>Min.Bm. Ang./Cap.</b>	<b>30.0 (38.9)</b>		<b>45.5 (38.3)</b>	



**WARNING**

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

On Tire Capacities In Pounds  
Tire Pressure: See Page 5  
Stationary Capacities – 360 Degree  
See Operation Note 20



**ON TIRES**

**MAIN BOOM "B"**

Load Radius (Ft.)	35.5 Ft.		40 Ft.		50 Ft.	
	∠ °	Load	∠ °	Load	∠ °	Load
10	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
<b>Min.Bm. Ang./Cap.</b>	<b>0 (30.0)</b>	<b>6,100</b>	<b>0 (34.5)</b>	<b>4,500</b>	<b>10.0 (44.1)</b>	
Load Radius (Ft.)	60 Ft.			70 Ft.		
	∠ °	Load	∠ °	Load		
20	67.0	15,700	71.0			
25	62.0	10,700	66.5	10,900		
30	56.0	7,500	61.5	7,700		
35	50.0	5,300	57.0	5,500		
40	43.0	3,700	51.5	3,900		
45	35.0	2,500	46.0	2,700		
<b>Min.Bm. Ang./Cap.</b>	<b>33.0 (46.0)</b>		<b>43.5 (47.2)</b>			



**WARNING**

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

