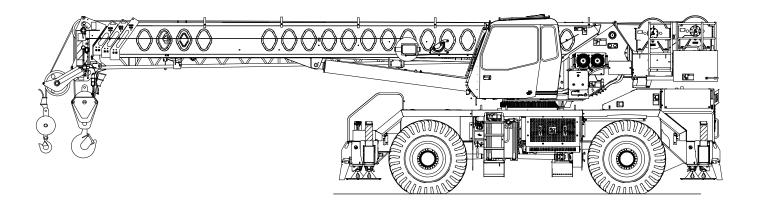
Technical Data

Specifications & Capacities





CAUTION: This material is supplied for reference use only. Operator must refer to in—cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly and operating procedures.

Boom, Attachments, and Upper Structure

■ Boom

Design — Four section, box type construction of high tensile steel consisting of one base section and three telescoping sections. The vertical side plates have diamond shaped steel impressions for superior strength to weight ration. The first telescoping section extends independently by means of one double—acting, single stage hydraulic cylinder with integrated holding valves. The second and third telescoping sections extend proportionally by means of one double—acting, single stage cylinder with integrated holding valves and cables.

Boom

- 35 ft 6 in-110 ft (10.8-33.5m) four section full power boom
- Two mode boom extension: A—max mode provides superior capacities by extending the first telescoping section to 60 ft 4 in (18.4m). Standard mode synchronizes all the telescoping sections proportionally to 110 ft (33.5m). Controlled from the operator's cab.
- Mechanical boom angle indicator
- Maximum tip height for A—max mode is 70 ft (21.3m) and standard mode is 118 ft 5 in (36.1m).

Boom Head

- Four 16.5 in (41.9cm) root diameter nylon sheaves to handle up to eight parts of line
- · Easily removable wire rope guards
- · Rope dead end lugs on each side of the boom head
- Boom head is designed for quick—reeve of the hook block

Boom Elevation

- One double acting hydraulic cylinder with integral holding valve
- Boom elevation: −3° to 78°

Auxiliary Lifting Sheave — Optional

- Single 16.5 in (41.9m) root diameter nylon sheave
- Easily removable wire rope guards
- Does not affect erection of the fly or use of the main head sheaves

Hook Blocks and Balls — Optional

- 40 ton (36.3mt) 4 sheave quick—reeve hook block with safety latch
- 60 ton (54.4mt) 4 sheave quick—reeve hook block with safety latch
- 8.5 ton (7.7mt) swivel and non—swivel hook balls with safety latch

Fly — Optional

- 28 ft 6 in (8.7m) one piece lattice fly, stowable, offsettable to 2°, 20°, and 40°. Maximum tip height is 146 ft (44.5m).
- 28 ft 6 in—51 ft (8.7—15.5m) two piece bi—fold lattice fly, stowable, offsettable to 2°, 20°, and 40°. Maximum tip height is 168 ft (51.2m).

■ Operator's Cab and Controls

Environmental Cab — Fully enclosed, one person cab of galvaneal steel structure with acoustical insulation. Equipped with:

- · Tinted and tempered glass windows
- Extra—large fixed front window with windshield wiper and washer
- Swing up roof window with windshield wiper
- Sliding left side door with large fixed window
- Sliding rear and right side windows for ventilation
- Six way adjustable, cushioned seat with seat belt and storage compartment
- Diesel fired warm—water heater with air ducts for front windshield defroster and cab floor
- · Defroster fan for the front window
- Bubble level
- · Circulating fan
- Adjustable sun visor
- Dome light
- Cup holder
- · Fire extinguisher
- · Left side viewing mirror
- · Two position travel swing lock
- AM/FM Radio

Air Conditioning – Optional – Integral with cab heating system utilizing the same ventilation outlets

Engine Dependent Heater – Optional – Flameless, warm—water system that does not have a separate fuel tank

Steering Column – Pedestal type with tilt and telescope functions for operator comfort. Column includes the following controls and indicators:

Left and right levers include:

- · Horn button
- Turn signal switch
- · Driving light switch
- Transmission direction switch Panel mounted switches for:
- · Travel park brake
- · Steer mode selector
- 4 wheel drive
- Transmission gear selector
- Hazard flasher

Panel mounted indicator/warning lights for:

- Transmission display
- · Transmission temperature
- · Engine oil pressure
- · Service brake
- Turn signals
- Rear wheel offset
- Emergency steer optional

■ Swing

Motor/Planetary — Bi—directional hydraulic swing motor mounted to a planetary reducer for 360° continuous smooth swing at 2.5 rpm.

Swing Park Brake -360° , electric over hydraulic, (spring applied/hydraulic released) multi-disc brake mounted on the speed reducer. Operated by a switch from the operator's cab.

Swing Brake -360° , foot operated, hydraulic applied disc brake mounted to the speed reducer.

Swing Lock – Two–position swing lock (boom over front or rear) operated from the operator's cab.

360° Positive Swing Lock – Optional – Meets New York City requirement.

■ Electrical

Swing Alarm — Audio warning device signals when the upper is swinging.

Lights

- · Two LED working lights on front of the cab
- One amber strobe beacon on top of the cab
- One rotating amber beacon on top of the cab optional
- One LED working light on top of cab optional
- Boom floodlight Single- optional
- Boom floodlight Dual optional
- Boom floodlight High intensity remote controlled optional

■ Load Hoist System Load Hoist Performance

	Main (Rear) and Auxiliary (Front) Winches — 3/4 in (19mm) Rope												
	Maximum Line Pull		Maximum Line Pull		Normal Li	ne Speed	High Lin	e Speed	Lay	yer	То	tal	
Layer	lb	kN	ft/min	m/min	ft/min	m/min	ft	m	ft	m			
1	15,390	68.45	168	51.2	337	102.7	114	34.7	114	34.7			
2	14,150	62.94	183	55.8	366	111.6	124	37.8	238	72.5			
3	13,094	58.24	198	60.4	396	120.7	134	40.8	372	113.4			
4	12,185	54.20	212	64.6	425	129.5	144	43.9	516	157.3			
5	11,394	50.68	227	69.2	455	138.7	154	46.9	670	204.2			

Wire Rope Application		Dian	neter	Туре		mum ble Load
		in	mm		lb	kg
Main (Rear)	Standard	3/4	19	37x7 rotation resistant — right lang lay (Type KC)	16,000	7 257.5
Winch	Optional	3/4	19	36x7 rotation resistant - right regular lay (Type ZB)	15,600	7 076.2
Auxiliary (Front)	Standard	3/4	19	37x7 rotation resistant - right lang lay (Type KC)	16,000	7 257.5
Winch	Optional	3/4	19	36x7 rotation resistant - right regular lay (Type ZB)	15,600	7 076.2

2M Main and Optional Auxiliary Winches

- Bi-directional gear-type (2-speed) hydraulic motors driven through planetary reduction unit for positive control under all load conditions.
- · Grooved lagging
- Power up/down mode of operation
- · Hoist drum cable follower
- · Drum rotation indicator
- Drum diameter: 16 in (40.6cm)
- · Rope length:
 - Main: 600 ft (182.9m)
 Auxiliary: 600 ft (182.9m)
- Maximum rope storage: 834 ft (254.2m)
- Terminator style socket and wedge

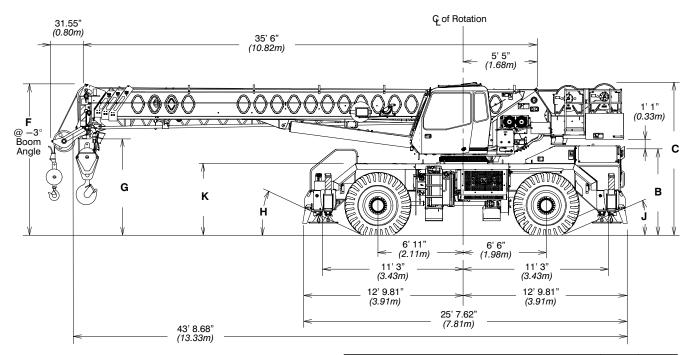
■ Hydraulic System

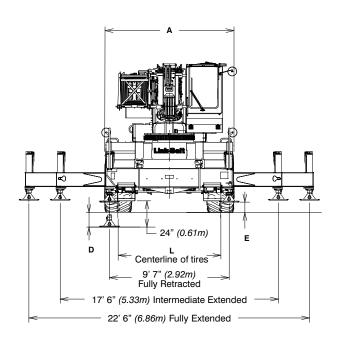
Counterbalance Valves — All hoist motors, boom extend cylinders, and boom hoist cylinders are equipped with counterbalance valves to provide load lowering and prevents accidental load drop when hydraulic power is suddenly reduced.

■ Counterweight

Total of 12,500 lb (5.7t) of counterweight bolted to the upper structure frame with capacities for the 12,500 lb (5.7t) configuration.

General Dimensions





Turning Radius – Front Wheel (4x2) Steering	Engli	ish Metric
Wall to wall over carrier	39'	0" 11.9m
Wall to wall over boom	47'	7" 14.5m
Wall to wall over boom attachment	49'	7" 15.1m
Curb to curb	37'	3" 11.4m
Centerline of tire	36'	0" 11.0m

Turning Radius - All Wheel (4x4) Steering	English	Metric
Wall to wall over carrier	23' 4"	7.1m
Wall to wall over boom	34' 0"	10.4m
Wall to wall over boom attachment	35' 6"	10.8m
Curb to curb	21' 4"	6.5m
Centerline of tire	20' 0"	6.1m

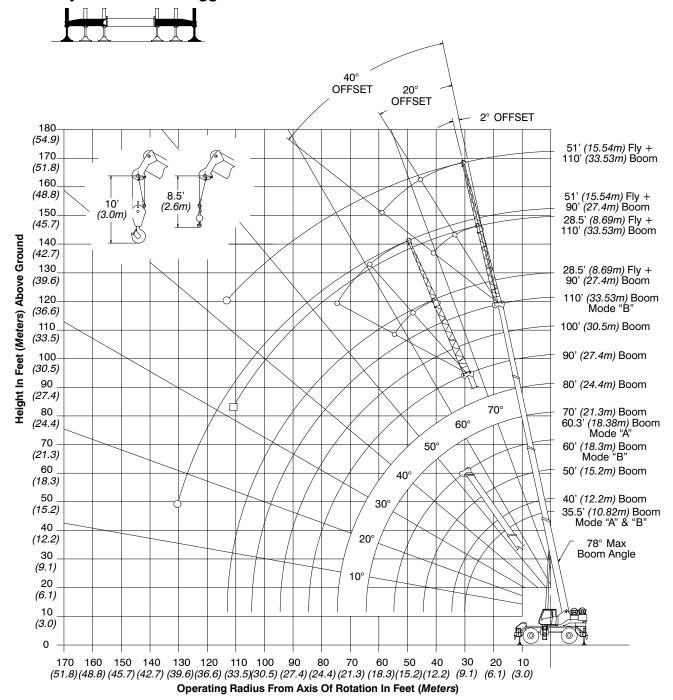
Tail Swing	English	Metric
With counterweight	12' 8"	3.9m
Without counterweight	N/A	N/A

	Tire Size							
General Dimensions	23.5 x 2	25 bias	23.5R25 radial					
Billionolono	English	Metric	English	Metric				
Α	10' 3.5"	3.14m	10' 3"	3.12m				
В	6' 7.75"	2.03m	6' 9.5"	2.06m				
С	11' 11.75"	3.65m	12' 1.5"	3.70m				
D	7.75"	0.20m	7"	0.18m				
E	10"	0.25m	11.75"	0.30m				
F	10' 0.25"	3.05m	10' 2"	3.10m				
G	7' 6"	2.29m	7' 7.75"	2.33m				
Н	24°		24.8°					
J	21°		22°					
K	6' 6.75"	1.69m	6' 8.5"	1.74m				
L	8' 3"	2.51m	8' 3"	2.51m				

Not To Scale

Working Range Diagram

Working Range Diagram On Fully Extended Outriggers

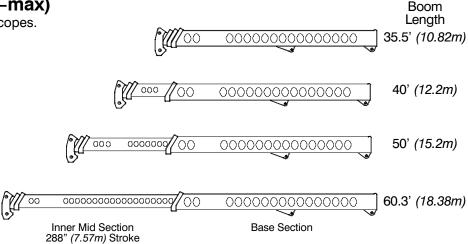


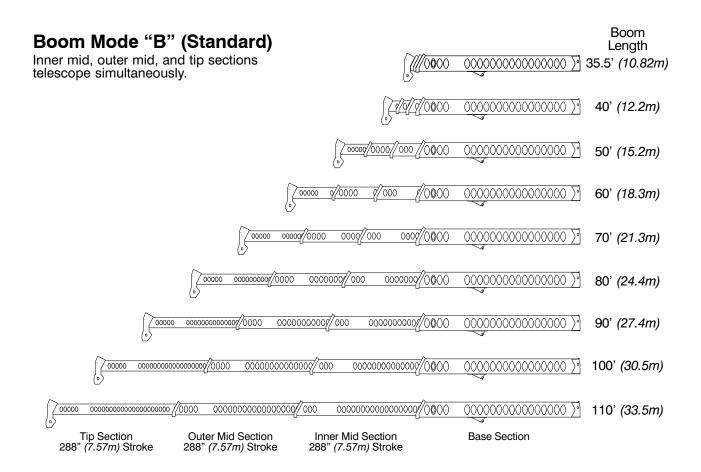
- O Denotes Main Boom + 51' (15.5m) Fly—Boom Mode "B"
- ☐ Denotes Main Boom + 28.5' (8.7m) Fly—Boom Mode "B"

Boom Extend Modes

Boom Mode "A" (A-max)

Only inner mid section telescopes.





RTC-8050 II Link-Belt Cranes

Main Boom Lift Capacity Charts — Imperial

Fully Extended Outriggers — 360° Rotation (All Capacities Are Listed In Pounds)											
Radius	Boom Length (ft)										
(ft)	35.5	40	50	60/60.3	70	80	90	100	110	(ft)	
10	100,000	78,400	72,600							10	
12	73,900	73,100	65,600	50,900	37,900					12	
15	63,200	63,000	57,500	46,900	37,900	35,400				15	
20	50,300	50,100	47,600	39,200	37,900	34,700	28,900			20	
25	39,000	38,900	38,500	37,900	37,900	34,200	28,200	24,000	19,500	25	
30		31,300	31,900	32,300	32,500	30,300	24,800	22,500	19,500	30	
35			26,100	26,500	26,700	26,900	22,000	19,900	18,300	35	
40			20,800	21,200	21,400	21,500	19,700	17,800	16,400	40	
45				17,100	17,300	17,400	17,500	15,900	14,600	45	
50				13,900	14,200	14,300	14,400	14,400	13,200	50	
55					11,900	12,100	12,200	12,200	12,100	55	
60					10,000	10,200	10,300	10,300	10,400	60	
65						8,600	8,700	8,800	8,900	65	
70						7,300	7,500	7,500	7,600	70	
75							6,400	6,500	6,500	75	
80							5,400	5,500	5,600	80	
85								4,700	4,800	85	
90								4,000	4,100	90	
95									3,500	95	
100									2,900	100	

This information is not for crane operation. Operator must refer to the in—cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 85% of the tipping loads and on tires do not exceed 75% of the tipping loads.

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On Tires — Stationary — Boom Centered Over Front Between Tire Tracks (All Capacities Are Listed In Pounds)											
Radius			Boom Length (ft)			Radius					
(ft)	35.5	40	50	60	70	(ft)					
10	47,300	47,100				10					
12	41,600	41,400				12					
15	35,100	35,000	35,800			15					
20	27,400	27,300	28,200	28,500		20					
25	21,900	21,700	22,900	23,200	23,400	25					
30		16,100	16,700	17,100	17,200	30					
35			12,600	12,900	13,100	35					
40			9,700	10,100	10,300	40					
45				7,900	8,200	45					
50				6,300	6,500	50					
55					5,200	55					
60					4,200	60					

	On Tires — Pick & Carry (Creep) — Boom Centered Over Front (All Capacities Are Listed In Pounds)											
Radius		Boom Length (ft)										
(ft)	35.5	40	50	60	70	(ft)						
10	44,100	43,900				10						
12	38,400	38,200				12						
15	31,800	32,000	32,400			15						
20	24,000	24,300	24,700	25,000		20						
25	18,600	19,000	19,500	19,800	19,900	25						
30		15,100	15,600	15,900	16,100	30						
35			12,600	12,900	13,100	35						
40			9,700	10,100	10,300	40						
45				7,900	8,200	45						
50				6,300	6,500	50						
55					5,200	55						
60					4,200	60						

On Tires — Stationary — 360° Rotation (All Capacities Are Listed In Pounds)											
Radius Boom Length (ft)											
(ft)	35.5	40	50	60	70	(ft)					
10	37,200	37,400				10					
12	31,100	31,400				12					
15	24,000	24,400	24,900			15					
20	14,500	14,800	15,400	15,700		20					
25	9,400	9,800	10,300	10,700	10,900	25					
30		6,600	7,100	7,500	7,700	30					
35			5,000	5,300	5,500	35					
40			3,400	3,700	3,900	40					
45				2,500	2,700	45					

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Fly Attachment Lift Capacity Charts — Optional

	Fully Extended Outriggers — 360° Rotation (All Capacities Are Listed In Pounds)												
110 ft	110 ft Main Boom Length 2° Fly Offset			110 ft Main Boom Length 20° Fly Offset			110 ft Main Boom Length 40° Fly Offset						
Radius	Fly Ler	ngth (ft)	Radius	Fly Ler	igth (ft)	Radius	Fly Ler	ngth (ft)					
(ft)	28.5	51	(ft)	28.5	51	(ft)	28.5	51					
35	9,400		45	9,500		50	7,500						
40	9,400		50	9,100		55	7,300						
45	9,400	6,200	55	8,400		60	7,100						
50	9,400	6,200	60	7,800	4,800	65	6,900						
55	9,200	6,200	65	7,300	4,600	70	6,500						
60	8,500	6,200	70	6,800	4,400	75	6,100	3,400					
65	7,900	6,000	75	6,400	4,300	80	5,800	3,400					
70	7,300	5,700	80	6,000	4,100	85	5,500	3,300					
75	6,800	5,300	85	5,700	4,000	90	5,200	3,200					
80	6,200	4,900	90	5,000	3,800	95	4,600	3,200					
85	5,300	4,600	95	4,300	3,700	100	3,900	3,100					
90	4,600	4,300	100	3,700	3,500	105	3,300	3,100					
95	4,000	4,000	105	3,200	3,300	110	2,800	3,000					
100	3,500	3,800	110	2,700	3,200	115		2,900					
105	3,000	3,500	115	2,300	3,000	120		2,800					
110	2,500	3,000	120		2,600	125		2,400					
115	2,100	2,600	125		2,200	130		2,000					
120		2,200	130		1,900								

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