



ROUGH TERRAIN CRANE

100 TONS

LINK-BELT RTC-80100i

BOOM LENGTHS:
40 TO 150 FT

JIB LENGTHS:
31 TO 85 FT

JIB OFFSETS:
2 - 25 - 45



NOTES:

Technical Data

Specifications & Capacities

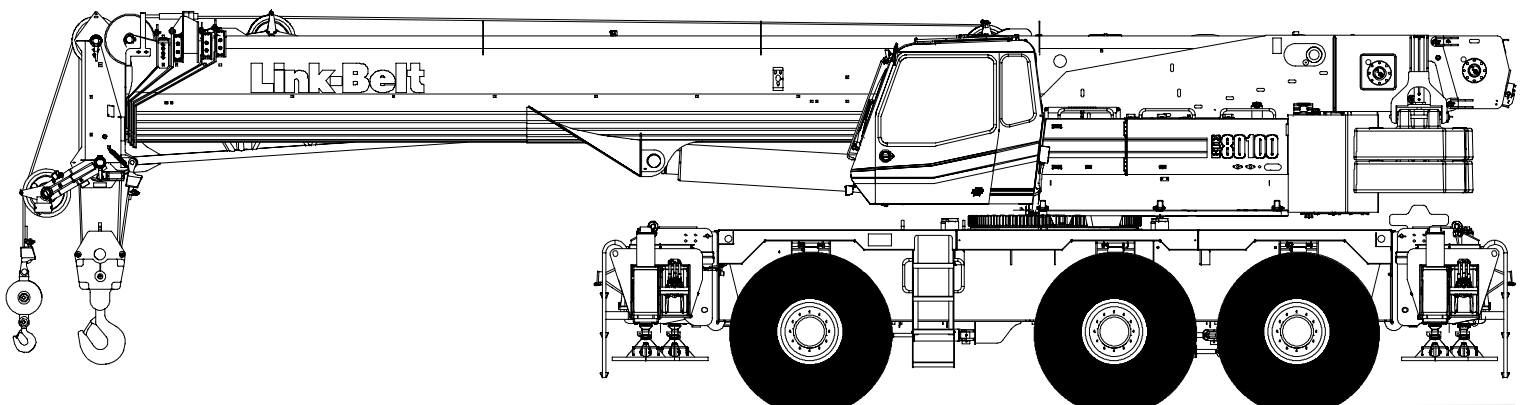
RTG 80100

Series II

Telescopic Boom Rough Terrain Crane

100 US ton

90.72 metric ton



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Boom, Attachments, and Upper Structure

■ Boom

Design – Five section, formed construction of extra high tensile steel consisting of one base section and four telescoping sections. The first telescoping section extends independently by means of one, double-acting, single stage hydraulic cylinder with integral holding valves. The second telescoping section extends independently by means of one, double-acting, single stage hydraulic cylinder with integral holding valves. The third and fourth sections extend proportionally by means of one, double-acting, single stage cylinder with integrated holding valves and cables.

Boom

- 40–150 ft (12.2–45.7m) five section full power boom
- Three boom extend modes, controlled from the operator's cab, provide superior capacities by varying the extension of the telescoping sections:
 - **Standard mode** is the full power, synchronized mode of telescoping all sections proportionally
 - **A-max¹** mode (or mode 'A1') extends only the inner and center sections to 95 ft (29m) offering increased capacities for in-close, maximum capacity picks
 - **A-max²** mode (or mode 'A2') tip, outer and center sections extend to 122.5 ft (37.34m) offering maximum stability
- Mechanical boom angle indicator
- Maximum tip height for each extend mode is:
 - Standard is 159 ft 6 in (48.6m).
 - A-max² is 132 ft 6 in (40.3m)
 - A-max¹ is 105 ft 6 in (32.1m)

Boom Wear Pads

- Bottom wear pads are universal for all boom sections
- Top wear pads are universal for all boom sections

Boom Head

- Six 16.5 in (41.9cm) root diameter nylon sheaves to handle up to twelve 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 80°

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

- 100 ton (90.72mt) 6 sheave, quick-reeve hook block, with safety latch
- 80 ton (72.57mt) 5 sheave, quick-reeve hook block with safety latch
- 50 ton (45.36mt) 4 sheave, quick-reeve hook block with safety latch
- 12 ton (10.89mt) hook ball (swivel) with safety latch

Fly – Optional

- 31 ft–55 ft (9.45–16.76m) two piece bi-fold lattice fly, stowable, offsettable to 2°, 25°, and 45°. Maximum tip height for 31 ft (9.45m) fly is 190 ft (57.9m) and for the 55 ft (16.76m) is 214 ft (65.2m).

Fly Extensions – Optional

- One 15 ft (4.57m) lattice extension to be mounted between the 31 ft (9.45m) and 55 ft (16.76m) fly options. Maximum tip height is 228 ft 6 in (69.65m).
- Two 15 ft (4.57m) lattice extensions to be mounted between the 31 ft (9.45m) and 55 ft (16.76m) fly options. Maximum tip height is 243 ft (74.07m).

■ Operator's Cab and Controls

Environmental Cab – Fully enclosed, one person cab of galvanneal 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
- Engine dependent 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

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

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
 - Forward/Neutral/Reverse direction switch



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Panel mounted switches for:

- Travel park brake
- Steer mode selector
- 2/6 wheel drive/range selector
- Hazard flasher

Panel mounted indicator/warning lights for:

- Travel circuit temperature
- Engine oil pressure
- Travel park brake
- Service brake
- Turn signals
- Case filter restriction
- Charge filter restriction
- Pump CPU error
- Engine overspeed
- Rear wheel offset
- Emergency steer – optional

Armrest Controls – Two dual axis hydraulic joystick controllers or optional single axis hydraulic controllers for:

- Swing
- Boom hoist
- Main rear winch
- Auxiliary front winch – optional
- Drum rotation indication
- Drum rotation indicator activation switch
- Winch high/low speed and disable switch(es)
- Third wrap selector switch – optional
- Telescopic override switches
- Warning horn button
- Swing park brake

Outrigger Controls – Hand held control box with umbilical cord gives the operator the freedom to view operation while setting the outriggers.

Foot Controls

- Boom telescope
- Swing brake
- Engine throttle
- Service brake

Right Front Console – Controls and indicators for:

- Engine ignition
- Engine throttle lock
- Function disable
- Fine metering
- Front windshield wiper and washer
- Cab floodlights
- Warning horn
- Heating controls
- Console dimmer switch
- Bubble level
- 12 volt power connection
- Air conditioning – optional
- Boom floodlight – optional
- Rotating beacon/Strobe light – optional
- Third wrap indicator – optional

Cab Instrumentation – Ergonomically positioned, analog instrumentation for crane operation including:

- Engine coolant temperature with warning indicator
- Hydraulic oil temperature with warning indicator
- Fuel level with warning indicator
- Tachometer
- Travel circuit temperature with warning indicator
- Voltmeter with warning indicator

Rated Capacity Limiter – Microguard graphic audio–visual warning system integrated into the dash with anti–two block and function limiter. Operating data available includes:

- Crane configuration
- Boom length and angle
- Boom head height
- Allowed load and % of allowed load
- Boom angle
- Radius of load
- Actual load
- Operator settable alarms (include):
 - Maximum and minimum boom angles
 - Maximum tip height
 - Maximum boom length
 - Swing left/right positions
 - Operator defined area (imaginary plane)
- Two 15 ft (4.57m) lattice extension to be mounted between the 31 ft (9.45m) and 55 ft (16.76m) fly options. Maximum tip height is 243 ft (74.07m).

Internal RCL Light Bar – Optional – Visually informs the operator when crane is approaching maximum load capacity with a series of green, yellow, and red lights.

External RCL Light Bar – Optional – Visually informs the ground crew when crane is approaching maximum load capacity with a series of green, yellow, and red lights.

■ Swing

Motor/Planetary – Bi–directional hydraulic swing motor mounted to a planetary reducer for 360° continuous smooth swing at 1.5 rpm.

Swing Park Brake – 360°, electric over hydraulic, (spring applied/hydraulic released) multi–disc brake mounted on the speed reducer. Operated by a toggle 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 working lights on front of the cab
- One rotating amber beacon on top of the cab – optional
- One amber strobe beacon on top of the cab – optional
- Boom floodlight – optional



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Load Hoist System

Load Hoist Performance

Front and Rear Winches – 7/8 in (22mm) Rope

Layer	Maximum Line Pull		Normal Line Speed		High Line Speed		Layer		Total	
	lb	kg	ft/min	m/min	ft/min	m/min	ft	m	ft	m
1	21,022	9 535.4	141	43.0	279	85.0	125	38.1	125	38.1
2	18,986	8 611.9	156	47.5	310	94.5	138	42.0	263	80.2
3	17,820	8 083.0	172	52.4	340	103.6	152	46.3	415	126.5
4	15,868	7 197.6	187	57.0	370	112.8	165	50.3	588	179.2
5	14,669	6 653.7	202	61.6	400	121.9	179	54.6	759	231.3
6	13,639	6 186.5	217	66.1	431	131.4	192	58.5	951	289.9

Wire Rope Application		Diameter		Type	Maximum Permissible Load	
		in	mm		lb	kg
Rear Winch	Standard	7/8	22	18x19 rotation resistant – right regular lay (Type RB)	17,520	7 946.9
	Optional	7/8	22	36x7 rotation resistant – right regular lay (Type ZB)	20,920	9 489.2
Front Winch	Standard	7/8	22	18x19 rotation resistant – right regular lay (Type RB)	17,520	7 946.9
	Optional	7/8	22	36x7 rotation resistant – right regular lay (Type ZB)	20,920	9 489.2

2M Main and Optional Auxiliary Winches

- Axial piston, full and half displacement (2–speed) 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: 15 in (38.1cm)
- Rope length:
 - Front: 850 ft (215.9m)
 - Rear: 500 ft (127.0m)
- Maximum rope storage: 951 ft (289.9m)
- Terminator style socket and wedge

Third wrap indicator – optional – Visually and audibly warns the operator when the wire rope is on the first (bottom) layer and when the wire rope is down to the last three wraps.

Engine

Specification	Detroit Diesel Series 40
Numbers of Cylinders	6
Cycle	4
Bore and Stroke: inch (mm)	4.59 x 5.35 (116.59 x 135.89)
Piston Displacement: in ³ (L)	530 (8.69)
Max. Brake Horsepower: hp (kW)	330 (246) @ 2,000 rpm
Peak Torque: ft lb (Nm)	1,050 (1 424) @ 1,300 rpm
Electric/starting systems: volts	12/12
Alternator: amps	130
Crankcase Capacity: qt (L)	28 (26.5)
<ul style="list-style-type: none"> • Water/fuel separator on engine • 110–volt block heater • Ether injection – optional 	



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■ Drive System

Hydrostatic type consisting of two variable speed piston pumps supplying hydraulic power to six hydraulic cam lobe wheel drive motors computer controlled for smooth and reliable operation.

■ Fuel Tank

One 95 gal (359.6L) capacity tank

■ Hydraulic System

All functions are hydraulically powered allowing positive precise control with independent or simultaneous operation of all functions.

Main Pumps

- One, two section gear pump for the boom hoist, telescope, and charge circuits.
- Two, closed-loop piston pumps serve as travel pumps. these two pumps supply hydraulic power to the wheel motors.
- Two, closed-loop piston pumps are mounted to the rear of the two travel pumps. The left pump drives the front winch and the right pump drives the optional rear winch.
- One, pressure compensated piston pump mounted to the rear of the left winch pump supplies hydraulic power to the outrigger, counterweight removal (optional), oscillation, and travel brake circuits.
- One, single section gear pump mounted to the rear of the right side winch pump supplies hydraulic power to the swing and steering circuits.

Hydraulic Reservoir – 255 gal (96.5L) capacity equipped with sight level gauge. Diffuser built in for deaeration. Magnetic drain plug and large internal magnet

Filtration

- One, 7-micron filter located inside hydraulic reservoir, accessible for easy replacement
- One, 7-micron charge filter located next to the reservoir with an in-cab indicator light
- Two, 10-micron pressure filters located next to the reservoir with change indicators
- Three, 100 mesh suction strainers located inside the hydraulic reservoir

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

■ Pump Drive

All pumps are mounted on the pump drive gearbox and mechanically driven by the diesel engine.

■ Counterweight

Total of 24,000 lb (10 886kg) consisting of two removable counterweights pinned to the upper with capacities for 0 lb (0kg), 12,000 lb (5 443kg), and 24,000 lb (10 886kg) configurations.

- Optional – Hydraulic counterweight removal activated by a hand-held controller with enough cable to access the pins on each side of the counterweights.



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Carrier

■ General

- 9 ft 11 in (3.02m) wide
- 16 ft 1 in (4.90m) wheelbase (centerline of first axle to centerline of third axle).

Frame – Box-type, torsion resistant, welded construction made of high tensile steel. Equipped with front and rear towing and tie-down lugs, tow connections, and access ladders.

■ Outriggers

Boxes – Two removable, double box, front and rear pinned to carrier frame. Hydraulic outrigger pin removal – optional.

Beams and Jacks – Four single stage beams with Confined Area Lifting Capacities (CALC™) provide selectable outrigger extensions of full, intermediate, and retracted. Hydraulically controlled from the operator's cab with integral check valves.

Pontoons – Four lightweight, quick release, 26 in (0.66m) diameter, steel pontoons with contact area of 539 in² (3 477cm²) can be stored for road travel in storage racks on the carrier.

Main Jack Reaction – 132,000 lb (59 874kg) force and 245 psi (1 689kPa) ground bearing pressure.

■ Steering and Wheel Drive Motors

Steering – Four independent modes consisting of two wheel front, four wheel rear, six wheel, and crab. Each mode is controlled from the steering wheel and is selected by a switch in the operator's cab.

Drive – Three modes: 6 x 2 high, 6 x 2 low, and 6 x 6 for off highway travel

Front Drive Motors – Steered, driven for 6 x 2 and 6 x 6

Rear Drive Motors – Steered, non-driven for 6 x 2 and steered, driven for 6 x 6

■ Suspension

Front – Double "A" arms connected to oscillation cylinders that lockout when the upper structure rotates 3° past centerline

Left Rear – Center and rear wheels mounted on double "A" arms connected to oscillation cylinders that lockout when the upper structure rotates 3° past centerline. Oscillation occurs across left center and left rear wheels.

Right Rear – Center and rear wheels mounted on double "A" arms connected to oscillation cylinders that lockout when the upper structure rotates 3° past centerline. Oscillation occurs across right center and right rear wheels.

Ride Height Adjustment – Suspension can be lowered for transport using a hand-held controller from the ground.

■ Tires and Wheels

Front and Rear – Six (single) 23.5R25, earthmover type tires on steel disc wheels

- Spare tires and wheels – optional

■ Brakes

Service – Full hydraulic, dual circuit, disc type brakes on all wheel ends

Parking/Emergency – Spring loaded type, acting on front wheel ends

■ Electrical

Three batteries provide 12 volt operation and starting

Lights

- Front lighting includes two main headlights and two parking/directional indicators
- Side lighting includes two parking/directional indicators per side
- Rear lighting includes two parking/directional indicators, two parking/brake lights, and two reversing lights
- Other equipment includes hazard/warning system

■ Carrier Speeds and Gradeability

Variable Hydrostatic Drive	Speed		Gradeability	
	Range	mph	km/h	% Grade
6 WD Low		3	4.8	55
2 WD Low		9	14.5	15
2 WD High		18.5	29.8	6

Based on a gross vehicle weight of 123,000 lb (55 792kg).

Crane operating angle must not exceed 30° (66% grade).

■ Hydraulic System

Filtration – One, 60-micron, full flow, line filter in the wheel motor case drain circuit. Filter includes an in-cab change indicator. Accessible for easy filter replacement.



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Axle Loads

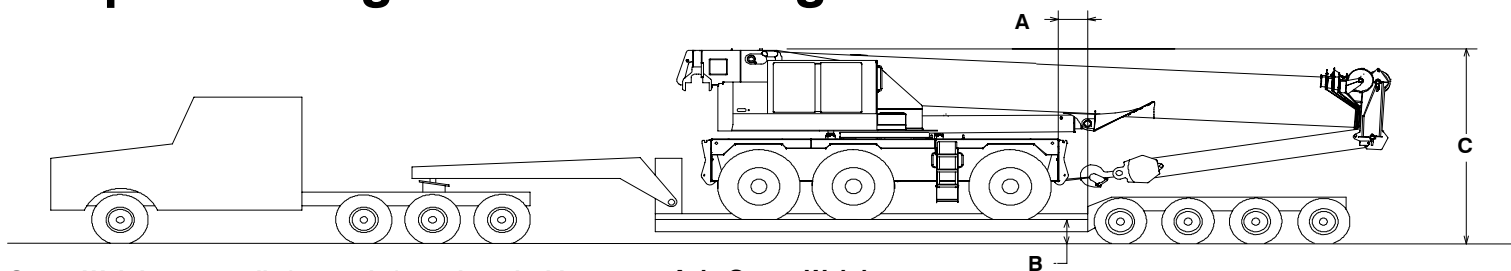
Base machine with full tank of fuel and 24,000 lb (10 886kg) of counterweight	Gross Vehicle Weight ⁽¹⁾		Upper Facing Front				Upper Facing Rear			
			Front Axle		Rear Axle Group		Front Axles		Rear Axle Group	
	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
	126,560	57 407	39,742	18 027	86,818	39 380	61,201	27 760	65,359	29 647
Remove outrigger boxes and beams	-17,215	-7 809	-6,383	-2 895	-10,832	-4 913	-6,383	-2 895	-10,832	-4 913
Remove main counterweight	-24,182	-10 969	12,928	5 864	-37,110	-16 833	-31,518	-14,296	7,336	3 328
Cold weather start aid – ether injector	19	9.5	-2	-0.9	21	10	-2	-0.9	8	4
Pintle hook, front	20	9	29	13	-9	-4	29	13	-9	-4
Pintle hook, rear	20	9	-9	-4	29	13	-9	-4	29	13
Rear steer indicator	10	4.5	-2	-1	12	5	-2	-1	12	5
Winch roller – rear winch	110	50	-82	-37	192	87	166	75	-56	-25
Winch roller – front winch	94	42	-42	-4	141	64	119	54	-25	-11
2M auxiliary winch	1,700	771	-1,143	-518	284	1,289	2,449	1 110	-749	-348
500 ft (152m) of 7/8 in (22mm) wire rope on auxiliary winch	862	391	-579	-263	1,441	518	1,242	563	-380	-172
Air conditioning in operator's cab	184	83	74	34	110	50	67	30	117	53
360° swing lock	139	63	35	16	104	47	71	32	68	31
Fly brackets to boom base sections for fly options	370	168	497	225	-127	-58	-213	-97	583	264
31 – 55 ft (9.45 – 16.76m) offset fly (stowed)	2,632	1 194	4,223	1 916	-1,591	-722	-2,200	-998	4,832	2 192
Floodlight to boom base section	10	5	26	12	-16	-7	-18	-8	28	13
100 ton (90.72mt) hook block to front/rear bumper	1,750	794	2,537	1 151	-787	-357	-1,192	-541	2,942	1 334
80 ton (72.57mt) hook block to front/rear bumper	1,411	640	2,046	928	-635	-288	-961	-436	2,372	1 076
50 ton (45.36mt) hook block to front/rear bumper	1,200	544	1,740	789	-540	-244	-817	-370	2,017	915
12 ton (10.9mt) hook ball to front/rear bumper	722	327	1,047	475	-325	-147	-492	-223	1,214	551
Auxiliary lifting sheave	120	54	347	157	-227	-103	-254	-115	374	170

Tire	Maximum Load @ 20 mph (32.2km/h)
23.5R25	57,330 lb (26 004kg)

(1) Adjust gross vehicle weight and axle loading according to component weight.

Note: All weights are ±3%.

Transport Configuration and Weights



Crane Weight: 89,984 lb (40 816kg), equipped with:

- 40 – 150 ft (12.19 – 45.72m), five section boom
- 80 ton (72.57mt) hook block
- One winch with 850 ft (259.08m) of 7/8 in (22mm) rope
- 31 – 55 ft (9.45 – 16.76m) bi-fold fly
- Winch roller
- Auxiliary arm
- Air conditioning

Drop Off Load Weight: 44,865 lb (20 350kg)

- Two outrigger boxes with tow shackles
- 24,000 lb (10 886kg) counterweight
- Rear winch with 500 ft (152.40m) of 7/8 in (22mm) rope
- Winch roller
- 12 ton (10.9mt) hook ball

Axle Group Weights

Empty Truck Wt.	Bed Length	Steer	Drivers	Trailer	A
48,500 lb (22 000kg)	32 ft (9.75m)	11,900 lb (5 398kg)	58,539 lb (26 553kg)	68,045 lb (30 865kg)	41 in (1.04m)

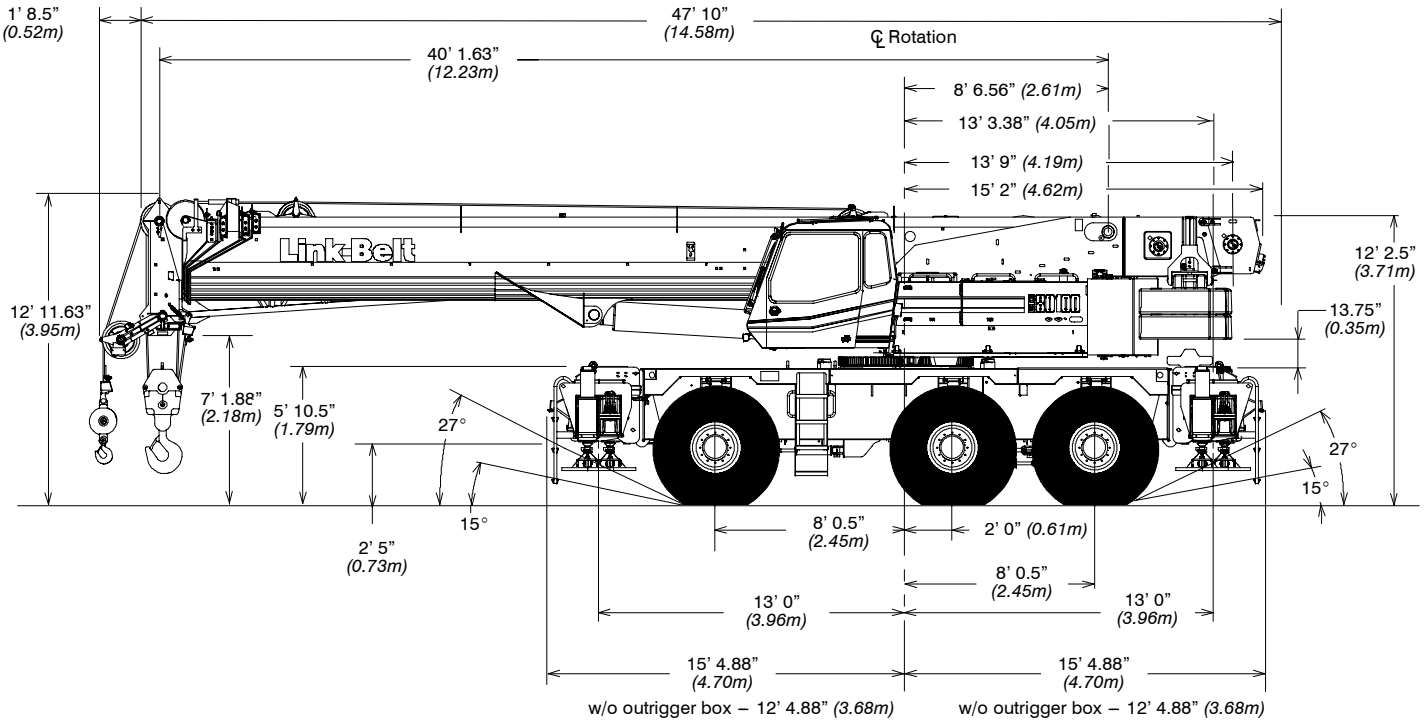
B – 18 in (0.46m) or 24 in (0.61m)

	Normal Suspension	Collapsed Suspension
C [with 18 in (0.46m) Trailer]	13 ft 8 in (4.17m)	13 ft 5 in (4.09m)
C [with 24 in (0.61m) Trailer]	14 ft 2 in (4.32m)	13 ft 11 in (4.24m)



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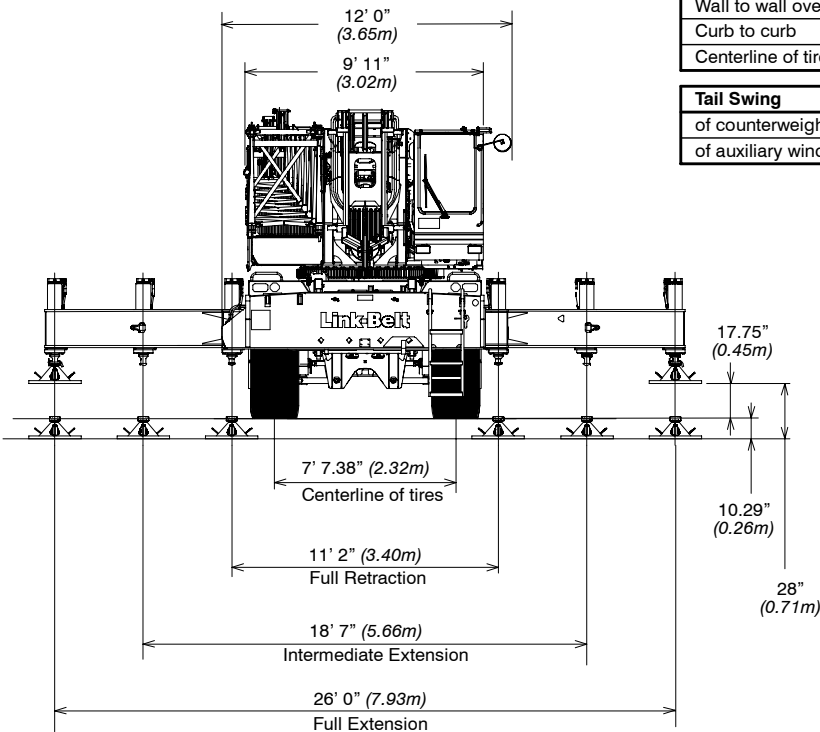
General Dimensions



Turning Radius – 2 Wheel Steering	English	Metric
Wall to wall over carrier	44' 11"	13.69m
Wall to wall over boom attachment	55' 1"	16.79m
Curb to curb	41' 9"	12.73m
Centerline of tire	40' 5"	12.32m

Turning Radius – 6 Wheel Steering	English	Metric
Wall to wall over carrier	25' 6"	7.77m
Wall to wall over boom attachment	37' 8"	11.48m
Curb to curb	22' 3"	6.79m
Centerline of tire	20' 10"	6.35m

Tail Swing	English	Metric
of counterweight (w/o auxiliary winch)	13' 9"	3.90m
of auxiliary winch	15' 6"	4.72m

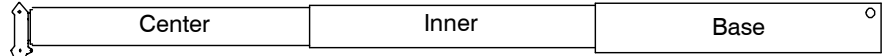


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Boom Extend Modes

Boom Mode “Amax¹”

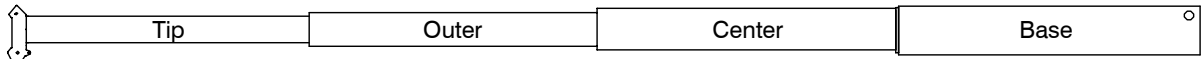
Inner and center sections telescope simultaneously



Telescope Length – ft (m)		Boom Length – ft (m)
0 (0)	0 (0)	40 (12.2)
5.0 (1.5)	5.0 (1.5)	50 (15.2)
10.0 (3.0)	10.0 (3.0)	60 (18.3)
15.0 (4.6)	15.0 (4.6)	70 (21.3)
20.0 (6.1)	20.0 (6.1)	80 (24.4)
25.0 (7.6)	25.0 (7.6)	90 (27.4)
27.5 (8.4)	27.5 (8.4)	95 (29.0)

Boom Mode “Amax²”

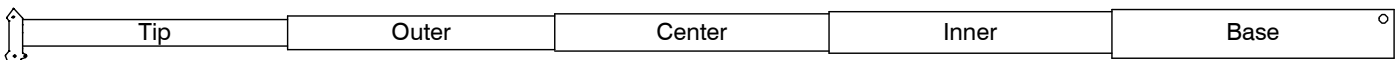
Center, outer, and tip sections telescope simultaneously



Telescope Length – ft (m)			Boom Length – ft (m)
0 (0)	0 (0)	0 (0)	40 (12.2)
3.33 (1.0)	3.33 (1.0)	3.33 (1.0)	50 (15.2)
6.66 (2.0)	6.66 (2.0)	6.66 (2.0)	60 (18.3)
10.00 (3.0)	10.00 (3.0)	10.00 (3.0)	70 (21.3)
13.33 (4.1)	13.33 (4.1)	13.33 (4.1)	80 (24.4)
16.66 (5.1)	16.66 (5.1)	16.66 (5.1)	90 (27.4)
20.00 (6.1)	20.00 (6.1)	20.00 (6.1)	100 (30.5)
23.33 (7.1)	23.33 (7.1)	23.33 (7.1)	110 (33.5)
27.50 (8.4)	27.50 (8.4)	27.50 (8.4)	122.5 (37.3)

Boom Mode “Standard”

Inner, center, outer, and tip sections telescope simultaneously



Telescope Length – ft (m)				Boom Length – ft (m)
0 (0)	0 (0)	0 (0)	0 (0)	40 (12.2)
2.5 (0.8)	2.5 (0.8)	2.5 (0.8)	2.5 (0.8)	50 (15.2)
5.0 (1.5)	5.0 (1.5)	5.0 (1.5)	5.0 (1.5)	60 (18.3)
7.5 (2.3)	7.5 (2.3)	7.5 (2.3)	7.5 (2.3)	70 (21.3)
10.0 (3.0)	10.0 (3.0)	10.0 (3.0)	10.0 (3.0)	80 (24.4)
12.5 (3.8)	12.5 (3.8)	12.5 (3.8)	12.5 (3.8)	90 (27.4)
15.0 (4.6)	15.0 (4.6)	15.0 (4.6)	15.0 (4.6)	100 (30.5)
17.5 (5.3)	17.5 (5.3)	17.5 (5.3)	17.5 (5.3)	110 (33.5)
20.0 (6.1)	20.0 (6.1)	20.0 (6.1)	20.0 (6.1)	120 (36.6)
22.5 (6.9)	22.5 (6.9)	22.5 (6.9)	22.5 (6.9)	130 (39.6)
25.0 (7.6)	25.0 (7.6)	25.0 (7.6)	25.0 (7.6)	140 (42.7)
27.5 (8.4)	27.5 (8.4)	27.5 (8.4)	27.5 (8.4)	150 (45.7)



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Main Boom Lift Capacity Charts – Standard

24,000 lb Counterweight – Fully Extended Outriggers – 360° Rotation
 (All Capacities Are Listed In Pounds)

Radius (ft)	Boom Length (ft)						Radius (ft)
	40	50	60	70	80	90	
10	200,000	104,100	102,500	101,500			10
12	182,500	104,100	102,500	101,500	100,100		12
15	158,300	104,000	102,500	101,500	88,800	81,900	15
20	122,200	104,100	102,500	95,200	74,300	69,900	20
25	94,900	94,400	93,900	81,100	63,500	59,800	25
30	76,600	76,100	75,800	70,300	55,000	54,500	30
35		61,200	60,400	59,900	53,200	50,300	35
40		49,800	51,000	51,700	52,100	45,500	40
45			41,400	42,000	42,400	41,400	45
50			34,300	35,000	35,400	35,700	50
55				29,600	30,100	30,400	55
60				25,300	25,800	26,100	60
65					22,400	22,700	65
70					19,500	19,900	70
75						17,500	75
80						15,500	80



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24,000 lb Counterweight – Fully Extended Outriggers – 360° Rotation
 (All Capacities Are Listed In Pounds)

Radius (ft)	Boom Length (ft)						Radius (ft)
	95/100	110	120/122.5	130	140	150	
20	61,800**	56,000					20
25	57,400**	56,000	53,200				25
30	49,700**	53,500	46,700	46,100	32,000	30,000	30
35	43,500**	47,400	41,400	40,800	32,000	30,000	35
40	38,400**	42,400	37,000	36,400	32,000	30,000	40
45	34,800	38,100	33,300	32,800	31,500	30,000	45
50	31,800	33,900	30,100	29,600	28,500	27,500	50
55	29,300	28,500	27,300	26,900	25,900	25,000	55
60	26,400	24,700	24,400	24,400	23,600	22,700	60
65	22,900	22,800	21,000	21,000	21,000	20,800	65
70	20,100	20,300	19,200***	18,200	18,200	18,200	70
75	17,700	17,900	17,800***	16,100	16,100	16,100	75
80	15,800	16,000	16,200***	14,100	14,100	14,100	80
85	14,000	14,200	14,400***	12,300	12,400	12,400	85
90	12,500	12,700	12,900***	10,800	10,900	10,900	90
95		11,400	11,600***	9,500	9,600	9,600	95
100		10,200	10,400***	8,400	8,400	8,400	100
105			9,300***	7,300	7,400	7,400	105
110			8,400***	6,400	6,400	6,500	110
115				5,600	5,600	5,600	115
120				4,800	4,800	4,900	120
125					4,100	4,200	125
130					3,500	3,500	130
135						3,000	135
140						2,400	140

** 95 ft A – max¹ Mode

*** 122.5 ft A – max² Mode



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Fly Attachment Lift Capacity Charts – Optional

24,000 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

150 ft Main Boom Length – 2° Fly Offset

Radius (ft)	Fly Length (ft)				Radius (ft)
	31	55	70	85	
35	15,000				35
40	15,000				40
45	15,000	10,100	9,300		45
50	15,000	10,100	9,100	6,800	50
55	15,000	10,100	8,900	6,500	55
60	15,000	10,100	8,600	6,300	60
65	15,000	10,000	8,400	6,000	65
70	15,000	9,800	8,100	5,800	70
75	15,000	9,600	7,900	5,500	75
80	14,500	9,500	7,700	5,300	80
85	13,100	9,300	7,400	5,100	85
90	11,600	9,100	7,200	4,900	90
95	10,200	8,900	6,900	4,700	95
100	9,100	8,800	6,700	4,500	100
105	8,000	8,600	6,500	4,300	105
110	7,100	7,900	6,300	4,100	110
115	6,200	7,000	6,100	4,000	115
120	5,500	6,200	5,900	3,800	120
125	4,800	5,500	5,700	3,700	125
130	4,100	4,900	5,100	3,500	130
135	3,600	4,300	4,500	3,400	135
140	3,000	3,700	3,900	3,300	140
145	2,500	3,200	3,400	3,200	145
150	2,100	2,800	2,900	3,000	150
155	1,700	2,300	2,500	2,600	155
160	1,300	1,900	2,100	2,200	160
165		1,600	1,700	1,800	165



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24,000 lb Counterweight – Fully Extended Outriggers – 360° Rotation
 (All Capacities Are Listed In Pounds)

150 ft Main Boom Length – 25° Fly Offset

Radius (ft)	Fly Length (ft)				Radius (ft)
	31	55	70	85	
50	14,700				50
55	14,500				55
60	14,200				60
65	14,000	8,200			65
70	13,800	8,100			70
75	13,600	7,900			75
80	13,400	7,800	5,500		80
85	13,200	7,700	5,400		85
90	12,800	7,600	5,200	3,300	90
95	11,300	7,400	5,100	3,200	95
100	10,100	7,200	5,000	3,100	100
105	8,900	7,100	4,900	3,000	105
110	7,900	6,900	4,700	2,900	110
115	7,000	6,800	4,600	2,800	115
120	6,200	6,700	4,600	2,700	120
125	5,400	6,500	4,500	2,700	125
130	4,700	6,000	4,400	2,600	130
135	4,100	5,300	4,300	2,500	135
140	3,500	4,700	4,200	2,500	140
145	2,900	4,100	4,200	2,400	145
150	2,400	3,500	4,000	2,400	150
155	1,900	3,000	3,500	2,300	155
160	1,500	2,600	3,000	2,300	160
165		2,100	2,500	2,200	165
170		1,700	2,100	2,200	170
175		1,300	1,700	1,900	175
180			1,300	1,600	180
185				1,300	185



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24,000 lb Counterweight – Fully Extended Outriggers – 360° Rotation
 (All Capacities Are Listed In Pounds)

150 ft Main Boom Length – 45° Fly Offset

Radius (ft)	Fly Length (ft)				Radius (ft)
	31	55	70	85	
60	12,700				60
65	12,500				65
70	12,400				70
75	12,300				75
80	12,200	6,600			80
85	12,100	6,500			85
90	12,000	6,400			90
95	11,900	6,300	4,200		95
100	10,700	6,200	4,200		100
105	9,500	6,100	4,100		105
110	8,400	6,100	4,000	2,300	110
115	7,400	6,000	4,000	2,300	115
120	6,500	5,900	4,000	2,200	120
125	5,700	5,900	3,900	2,200	125
130	4,900	5,900	3,900	2,200	130
135	4,300	5,900	3,900	2,100	135
140		5,200	3,800	2,100	140
145		4,500	3,800	2,100	145
150		3,900	3,800	2,100	150
155		3,300	3,800	2,100	155
160		2,800	3,500	2,100	160
165		2,300	2,900	2,100	165
170			2,400	2,100	170
175			1,900	2,100	175
180			1,500	1,900	180
185				1,500	185
190				1,200	190



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