RTC 80100 SERIES II

GUAY

Rough Terrain Crane
100-ton *(90.72 mt)*



- 100-ton *(90 mt)* at a 10' *(3.05 m)* radius
- 90,000 lbs. *(40 823 kg)* travel vehicle weight
- 40' to 150' *(12.2 - 45.7 m)* full-power, five-section formed construction boom, quick-reeve boom head
- 31' *(9.5 m)* one-piece lattice fly, stowable, offsettable to 2°, 25°, and 45°
- 31' to 55' *(9.5 - 16.8 m)* two-piece bi-fold lattice fly, stowable, offsettable to 2°, 25°, and 45°
- Two optional 15' *(4.6 m)* fly extensions increasing fly length to 85'
- Maximum tip height of 243' *(74.1m)*
- Three boom modes - A-max1, A-max2 and standard boom lifting capacities
- No deducts for stowed attachments
- Hydraulic counterweight removal
- Hydraulic pinned, removable front and rear outrigger boxes
- Removable rear winch with quick disconnects
- 21,000 lbs. *(9 525 kg)* max line pull and 430 fpm *(131 mpm)* max line speed
- Detroit Diesel, Series 40, 330-hp *(246 kw)* diesel engine
- Six-wheel hydrostatic drive with fully independent "A" Arm suspensions
- Travel speed 18.5 mph *(29.8 km/h)*
- Turning radius of 21' (6.4m)
- Ultra-Cab™ with single or dual-axis, pilot operated controls
- CabWalk™

Link-Belt
CRANES

RTC 80100 SERIES II

Unveiling the next generation of formed boom design

This new boom design not only delivers full power boom and telescoping load capability but also delivers a superior load chart and a maximum tip height of 243-ft. *(69.49 m)* with full attachment. This formed boom is designed for larger cranes to meet greater length and stability requirements. The U-shaped, formed construction boom design offers exceptional strength and stability throughout the crane's chart. Strategically placed wear pads are utilized throughout the boom to disperse the load to maximize the overall stability providing greater capacities at longer load radii.

Rough Terrain Crane 100-ton *(90.72 mt)*

The industry's most innovative solution to big rough terrain crane maneuverability and transportability!

- Revolutionary hydrostatic drive on a three-axle, six-wheeled carrier for the ultimate in job site mobility
- Breakthrough transportability
- Maneuverability redefined
- 45-ton pick & carry capacities
- New U-shaped, formed boom meets greater length and stability requirements

Link-Belt CRANES



Optional two-piece bi-fold lattice fly can be extended with two optional 15' *(4.57 m)* fly extensions for up to 85' of fly



Three position outrigger beams extend to 22' 6" and retract to 9' 7" with use of hand-held outrigger controls

Complete lighting package

Flat deck design and non-slip surface strips on deck

Fast "hook-and-go" front & rear outrigger beams

Stowable pontoons

Repositionable ladders on front and back

23.5R25 radial tires

Independent front



Independent rear



Coordinated six wheel drive



Six wheel "crab"





Partial counterweight and no counterweight charts

Catwalks on both sides of upper



Revolutionary hydrostatic drive on a three-axle carrier design

Not only is the RTC-80100 Series II easy to get from jobsite to jobsite, it also has extraordinary creep control and jobsite maneuverability, thanks to its hydrostatic powered motors in each wheel. With the smaller tires giving it an overall height of 12' 2.5" *(3.72 m)*, along with its' individual six-wheel hydrostatic drive, there is no crane in the world, any size, that can come close to the job site maneuverability and performance of the RTC-80100. On the job, the RTC-80100's outstanding pick and carry capacity coupled with its long reach, maneuverability, incredible gradeability and low height make it truly an ideal solution for industrial sites.



Because of the innovative 6x6x6 hydrostatic drive/steer on each wheel, the turning radius of the 30' 10" *(9.4 m)* long carrier is a remarkable 21' *(6.4 m)*.



Braden winch package with available line pull of 21,000 lbs

Standard load hoist system consists of a main winch with two-speed motor and automatic brake for power up/down mode of operation.

Bi-directional hydraulic motor, driven through a planetary reduction unit provides precise smooth load control with minimal rpm's.

Asynchronous, parallel double-over grooved drums minimize rope harmonic motion, improving spooling and increasing rope service life. A two-speed auxiliary winch is an available option.

Deflector rollers prevent premature wire rope wear when working at low boom angles.





Operator cab features

- **Extra large front window** almost seamlessly merges into the roof window
- **Sliding left side door,** right and rear windows, and swing up top window provide excellent ventilation
- **All gauges, switches, indicators, and controls** are placed in the operator's forward line of sight for excellent ergonomics
- **All gauges and switches are backlit** for excellent visibility when the cab working lights are switched to the on position
- **Integral rated capacity limiter** aids operator in safe and efficient operation by continuously monitoring boom length, boom angle, head height, radius of load, machine configuration, allowed load, and percent of allowed load.
- Available – **Integrated air conditioning** utilizes the same ventilation outlets as the standard heating system

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↑ Powered by 330 hp *(246 kW)* Detroit Diesel Series 40, six-cylinder diesel engine with 1,050 ft.-lb. *(1,424 nm)* of torque.

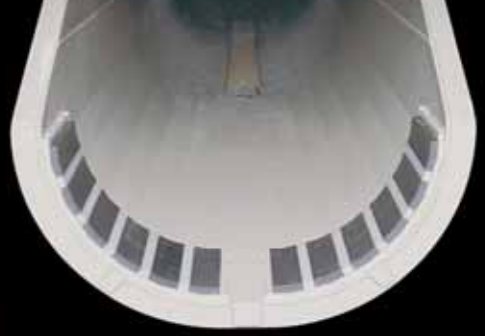
Swing-out doors provide exceptional access to engine components.

↓→ Access is superb with strategically-located ladders, steps, catwalks and CabWalk.





New innovative 5-section full power boom with attachment flexibility



Wear shoes all the way around the circumference of the boom spreads the load out and gives you good capacity and extended wear shoe life.

Introducing a new boom design, Link-Belt is unveiling the next generation formed boom design for larger cranes to meet greater length and stability requirements. The U-shaped, formed construction boom design offers exceptional strength and stability throughout the crane's chart. Strategically placed wear pads are utilized throughout the boom to disperse the load to maximize the overall boom strength and stability providing greater capacities at longer load radii.

- 150' *(45.72 m)*
- Maximum tip height is 243' *(74.1 m)* with the full attachment and main boom used in combination
- Can telescope loads of greater capacity than power-pinned booms
- No deducts for stowed attachments



Lightweight nylon head sheaves (including the optional auxiliary lifting sheave shown here) reduce overall machine weight and increase lift capacities.

Quick reeve boom head allows rope to be easily reeved over boom head.

Hammerhead boom nose allows the operator to work at high boom angles.

Type "RB" wire rope is standard







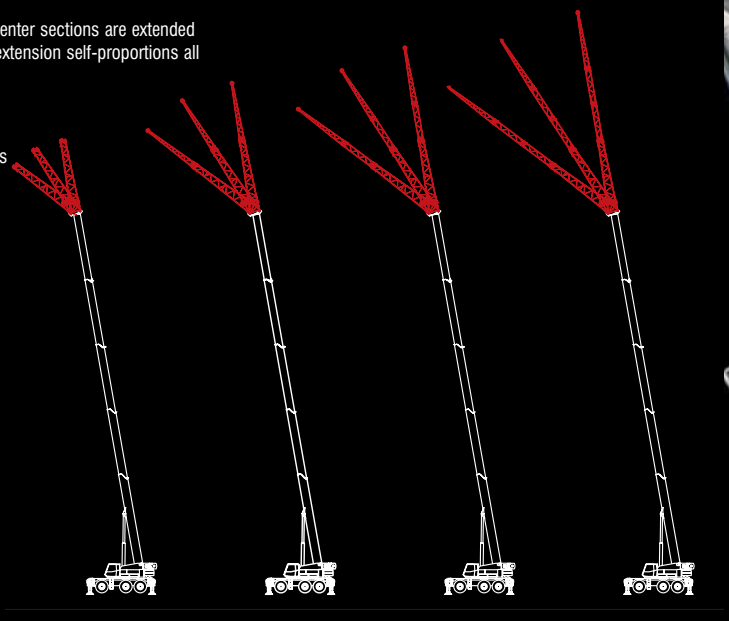
A-max modes

The exclusive A-max modes offer **substantially increased capacities** for in-close, maximum capacity picks, and provide the operator the capability to match the crane's configuration to specific job site conditions.

A-max[1] - 95' *(29 m)*: Inner and center sections are extended, offering maximum strength
A-max[2] - 122' 6" *(37.34 m)*: Tip, outer and center sections are extended yielding maximum stability The basic boom extension self-proportions all four sections equally.

Optional lattice fly attachments

- 31' *(9.44 m)* one-piece lattice fly with lugs to allow addition of second section
- 31' - 55' *(9.44 - 16.76 m)*
- Also available are optional 15' *(4.57 m)* fly extensions that extend the bi-fold attachment to 70' with one section and 85' using two sections
- Erection of two-piece (bi-fold) lattice fly is a one-man operation
- Exclusive design reduces side deflection when lifting load
- Easy to erect and stow
- Attachments offset to 2°, 25° and 45°



cut here

Breakthrough transportability

- Unlike any other rough terrain crane in this class, **in less than an hour, without a helper crane**, the RTC-80100 is stripped to less than 90,000 lbs. and is ready for transport.
- Unlike other big RT's, the **tires do not need to be removed** for transport.
- **Only the counterweights and outrigger boxes need to be removed** to get the crane's vehicle width under 10' *(3.05 m)*.
- Because it is under 10-ft wide and features a low 12' 2.5" *(3.72 m)* overall height, the RTC-80100 Series II incurs **no daytime or weekend travel restrictions** unlike competitor's cranes which exceed width and weight restrictions, which require special permits.
- The crane **ships in two loads**. Using an 18" conventional, drop deck trailer the crane unit is easily loaded out. The second truck handles the counterweights, fly extensions and outrigger boxes.







Link-Belt Construction Equipment Company is a leader in the design, manufacture and sales of telescopic and lattice boom cranes, with headquarters in Lexington, Kentucky.

In the recent decade, a dynamic and highly focused Link-Belt has emerged as a market leader in crane design and product quality standards by focusing on continuous improvement and employee empowerment.

Link-Belt operates on the principles of continuous quality improvement, ISO 9001, and established values that support the vision of quality. These principles result in reduction in waste, better use of company resources and improved employee and customer satisfaction.

With major capital improvements over the last ten years, along with continuous improvement philosophies, this facility has emerged as the most modern crane facility in North America.

Link-Belt CRANES

Lexington, Kentucky
www.linkbelt.com

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Litho in U.S.A. 5/06 #4325



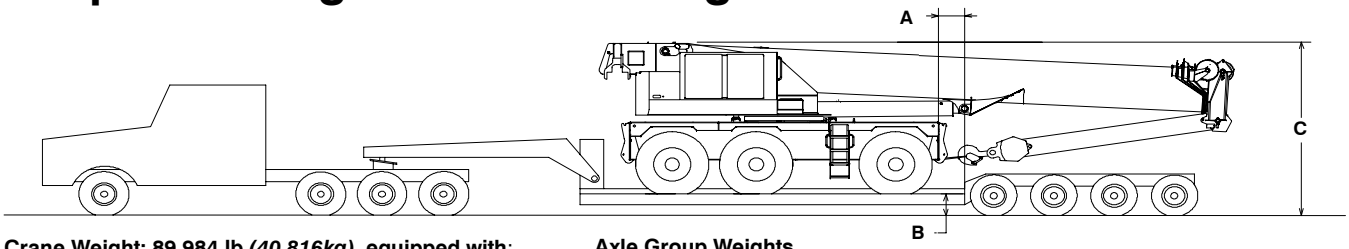
Axle Loads

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*)

Link-Belt
CONSTRUCTION EQUIPMENT

Lifting Capacities

Telescopic Boom Rough Terrain Crane

RTC–80100

100–ton *(91 metric tons)*

Series II

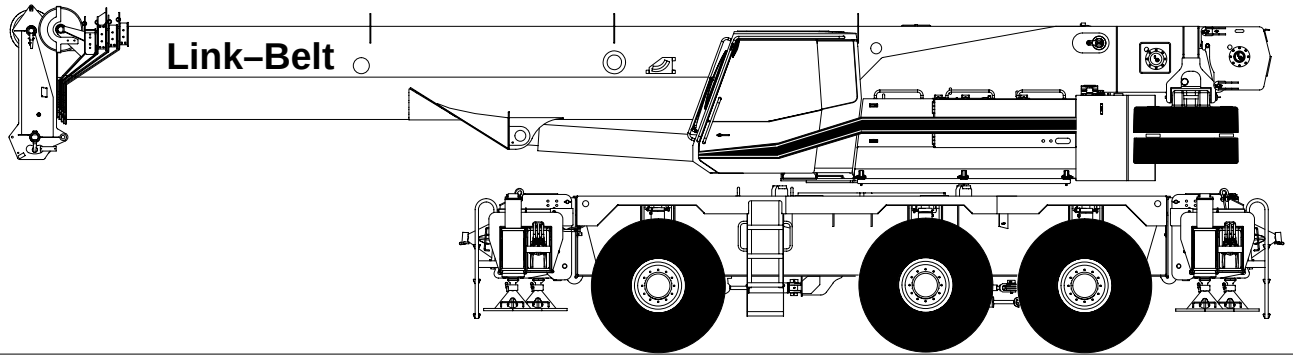
Boom and Fly Capacities for this machine are listed by the following sections.

Fully Extended Outriggers

- Working Range Diagram
- 24,000 lbs *(10 886 kg)* of Counterweight
- 40’ to 95’ *(12.19 – 28.96 m)* Main Boom Capacities, “A–max1” Mode
- 40’ to 122.5’ *(12.19 – 37.34 m)* Main Boom Capacities, “A–max2” Mode
- 40’ to 150’ *(12.19 – 45.72 m)* Main Boom Capacities, “Standard” Mode
- 31’ to 85’ *(9.45 – 25.90 m)* Fly Capacities, “Standard” Mode

On Tires

- With Outrigger Boxes
- Stationary – Over Rear, Stationary – 360°, Creep and 2.5 mph
- 24,000 lbs *(10 886 kg)* of Counterweight
- 40’ to 95’ *(12.19 – 28.96 m)* “A–max1” Boom Mode
- 40’ to 122.5’ *(12.19 – 37.34 m)* Main Boom Capacities, “A–max2” Mode
- 40’ to 120’ *(12.19 – 36.58 m)* Main Boom Capacities, “Standard” Mode



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.

Litho in U.S.A. 4/02

#6312

⚠ 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. The tires must be inflated to 102 psi for all travel and when making lifts on tires.
4. For required parts of line, see Wire Rope Capacity and Winch Performance.
5. Before setting up the crane, refer to Allowable Crane Configuration 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.
2. Rated lifting capacities shall be reduced for repetitive lift applications. For concrete bucket operation, weight of bucket and load shall not exceed 80% of rated load. For duty cycle operation, such as loading and unloading, maximum allowable load shall not exceed 70% of rated load. For clamshell and magnet operation, weight of bucket, or magnet, and load shall not exceed 70% of rated load. Lifts with fly erected are prohibited for clamshell and magnet operation.
3. 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.
4. 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.
5. 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 any fly erected, but not used, see Capacity Deductions.
6. 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.
7. Rated lifting capacities are for lift crane service only.
8. 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.
9. 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.
10. 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.**

11. 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.
12. For cold weather operation rated capacities should be reduced by the following rule: a 1% reduction in rated capacity should be taken for each 1°F below 0°F. Example: if the temperature is –10°F a 10% reduction in rated capacities should be taken, at –40°F a 40% reduction.
13. When making lifts with auxiliary lifting sheave, the effective length of the boom increases by 2 feet.
14. The power sections of the boom, for the selected boom mode, must be extended or retracted equally.
15. The least stable rated working area depends on the configuration of the crane set up.
16. Rated lifting capacities are based on correct reeving. Deduction must be made for excessive reeving. Any reeving over minimum required is considered excessive and must be accounted for when making lifts. Use Working Range Diagram to estimate the extra feet of rope then deduct 1.5 lb for each extra foot of wire rope before attempting to lift a load.
17. 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.
18. For fly capacities with main boom length between 120 ft. and 150 ft., the rated loads are determined by the boom angle using the 150 ft. boom and fly chart. For angles not shown use the next lower boom angle to determine the rated capacity.
19. For fly capacities with main boom length less than 120 ft. the rated loads are determined by the boom angle only using the 120 ft. boom and fly chart. For angles not shown, use the next lower boom angle to determine the rated capacity.
20. The 40 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 50 ft. boom length.
21. 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 rear 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.

DEFINITIONS:

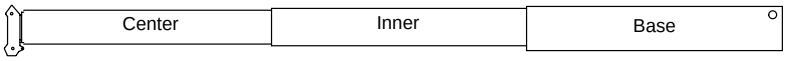
1. Load Radius: Horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of the vertical hoist line or tackle with load applied.
2. Loaded Boom Angle: $\measuredangle^{\circ}$ The angle between the boom base section and horizontal with freely 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.

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CONSTRUCTION EQUIPMENT

BOOM MODES

Boom Mode “Amax1”

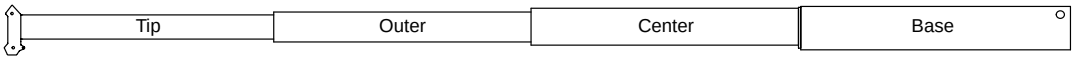
Inner and center sections telescope simultaneously.



Telescope Length (Ft.)		Boom Length (Ft.)
0	0	40
5.0	5.0	50
10.0	10.0	60
15.0	15.0	70
20.0	20.0	80
25.0	25.0	90
27.5	27.5	95

Boom Mode “Amax2”

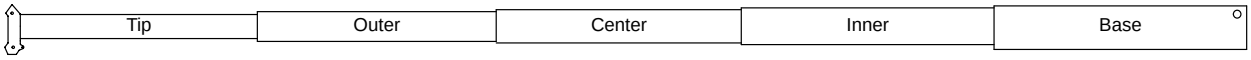
Center, outer, and tip sections telescope simultaneously.



Telescope Length (Ft.)			Boom Length (Ft.)
0	0	0	40
3.33	3.33	3.33	50
6.66	6.66	6.66	60
10.00	10.00	10.00	70
13.33	13.33	13.33	80
16.66	16.66	16.66	90
20.00	20.00	20.00	100
23.33	23.33	23.33	110
27.50	27.50	27.50	122.5

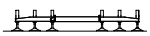
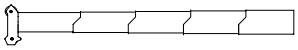
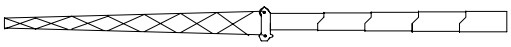
Boom Mode “Standard”

Inner, center, outer, and tip sections telescope simultaneously.



Telescope Length (Ft.)				Boom Length (Ft.)
0	0	0	0	40
2.5	2.5	2.5	2.5	50
5.0	5.0	5.0	5.0	60
7.5	7.5	7.5	7.5	70
10.0	10.0	10.0	10.0	80
12.5	12.5	12.5	12.5	90
15.0	15.0	15.0	15.0	100
17.5	17.5	17.5	17.5	110
20.0	20.0	20.0	20.0	120
22.5	22.5	22.5	22.5	130
25.0	25.0	25.0	25.0	140
27.5	27.5	27.5	27.5	150

ALLOWABLE CRANE CONFIGURATION

								
		Amax1	**Amax2**	**STD**	**31’**	**55’**	**70’**	**85’**
ON TIRES	0 lbs.	–	40’–80’	–	–	–	–	–
	12,000 lbs.	40’–95’	40’–122.5’	40’–120’	–	–	–	–
	24,000 lbs.	40’–95’	40’–122.5’	40’–120’	–	–	–	–
RETRACTED	0 lbs.	–	40’–100’	–	–	–	–	–
	12,000 lbs.	40’–95’	40’–122.5’	40’–120’	–	–	–	–
	24,000 lbs.	40’–95’	40’–122.5’	40’–120’	–	–	–	–
INTERMEDIATE	0 lbs.	**40’–95’**	**40’–122.5’**	**40’–150’**	–	–	–	–
	12,000 lbs.				–	–	–	–
	24,000 lbs.				40’–150’	–	–	–
FULL	0 lbs.	**40’–95’**	**40’–122.5’**	**40’–150’**	–	–	–	–
	12,000 lbs.				40’–150’	40’–150’	–	–
	24,000 lbs.				40’–150’			

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 crane on fully extended outriggers. Additional reductions are required for other configurations.
- During high winds, 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 – Two Speed Winch		Drum Rope Capacity (ft.)	
	Low Speed	High Speed		
	Available lb*	Available lb	Layer	Total
1	21,022	9,474	125	125
2	18,968	8,549	138	263
3	17,280	7,788	152	415
4	15,868	7,151	165	580
5	14,669	6,611	179	759
6	13,639	6,147	192	951

* Maximum lifting capacity: Type RB Rope = 17,520 Type ZB Rope = 20,920

WIRE ROPE CAPACITY

Maximum Lifting Capacities Based On Wire Rope Strength			
Parts of Line	7/8" Type RB	7/8" Type ZB	Notes
1	17,520	20,920	Capacities shown are in pounds and working loads must not exceed the ratings on the capacity charts in the Crane Rating Manual. Capacity deducts for auxiliary lifting devices do not apply for wire rope strength capacities. Study Operator's Manual for wire rope inspection procedures and single part of line applications.
2	35,040	41,840	
3	52,560	67,760	
4	70,080	83,680	
5	87,600	104,600	
6	105,120	125,520	
7	122,640	146,440	
8	140,160	167,360	
9	157,680	188,280	
10	175,200	209,200	
11	192,720	230,120	
12	210,240	251,040	

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 (Non–Adjustable)	4,130 – 4,350
Propel (Non–Adjustable)	6,090 – 6,310
Outrigger/Counterweight Removal (Option)	3,000
Boom Hoist/Telescope Retract	4,400
Telescope/Extend	3,000
Swing/Steering	3,000
Pilot Control	500
Charge Circuit	350
Park Brake	350

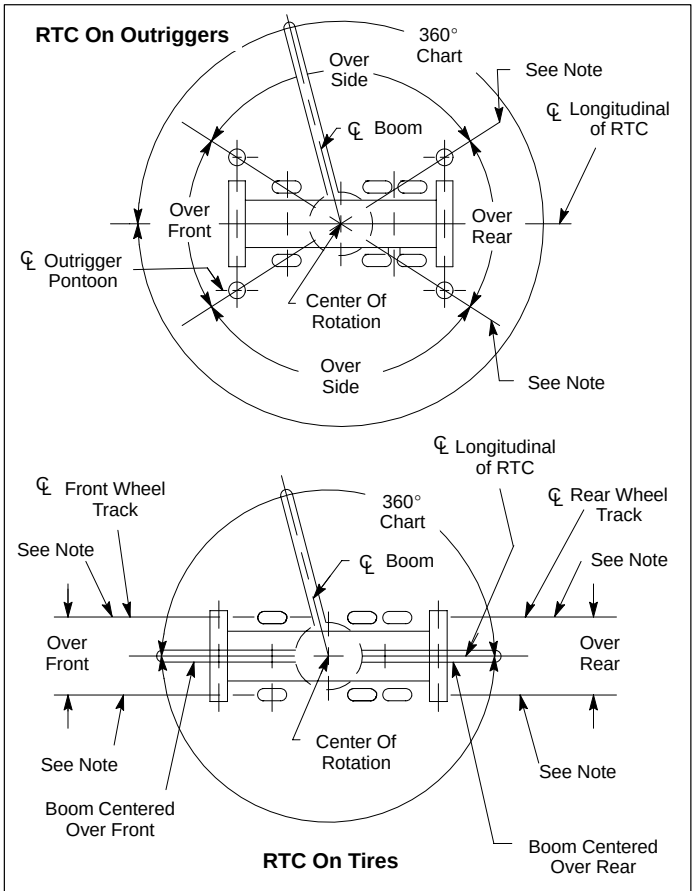
CAPACITY DEDUCTIONS

Load Handling Equipment	Weight (lb)
80 Ton Quick Reeve 5 Sheave Hook Block (See Hook Block For Actual Weight)	1,410
100 Ton Quick Reeve 6 Sheave Hook Block (See Hook Block For Actual Weight)	1,750
12 Ton Hook Ball (See Hook Ball For Actual Weight)	720

Auxiliary Lifting Devices	Weight (lb)
Auxiliary Head Attached	100
Lifting From Main Boom With:	
31 Ft. Or 55 Ft. Fly Stowed On Boom Base (See Operation Note 4)	0
31 Ft. Offset Fly Erected But Not Used	4,600
55 Ft. Offset Fly Erected But Not Used	7,500
70 Ft. Offset Fly Erected But Not Used	PROHIBITED
85 Ft. Offset Fly Erected But Not Used	PROHIBITED
Lifting From 31 Ft. Offset Fly With:	
24 Ft. Fly Tip Erected But Not Used	PROHIBITED
24 Ft. Fly Tip Stowed On 31 Ft. Offset Fly	PROHIBITED

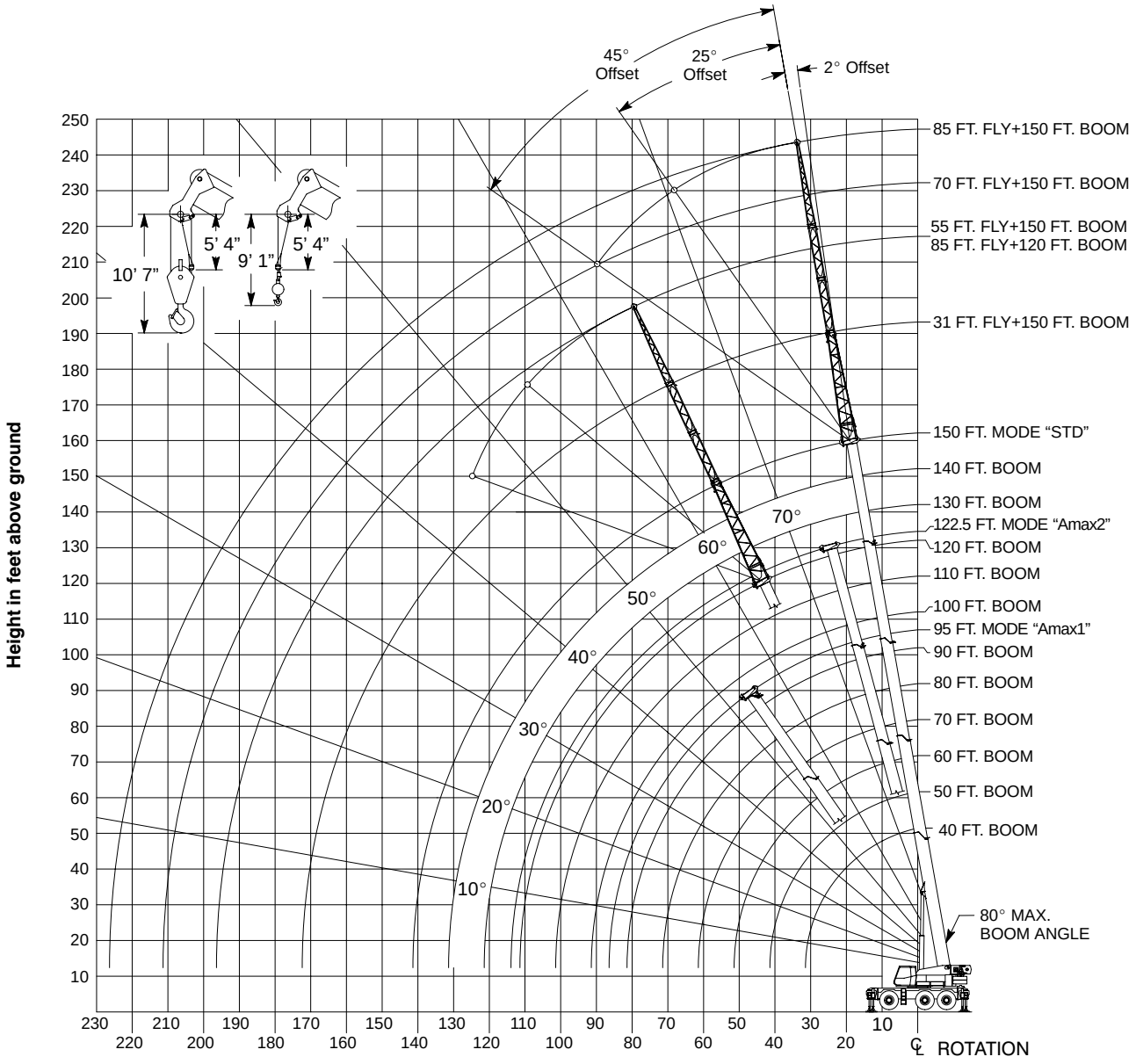
Note: Capacity deductions are for Link–Belt supplied equipment only.

WORKING AREAS



Note: These Lines Determine The Limiting Position Of Any Load For Operation Within Working Areas Indicated.

WORKING RANGE DIAGRAM

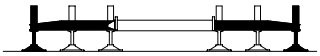


Note: Boom and fly geometry shown are for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius, and boom angle change must be accounted for when applying load to hook.

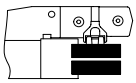
⚠ WARNING

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.

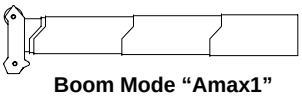
Rated Lifting Capacities In Pounds



Full



24,000# Counterweight



Boom Mode “Amax1”

Load Radius (Ft)	40 Ft.			50 Ft.		
	∠°	360°	Front	∠°	360°	Front
10	68.0	200,000	200,000	72.5	104,100	104,100
12	64.5	182,500	183,100	70.0	104,100	104,100
15	59.5	158,300	158,800	66.5	104,100	104,100
20	50.0	122,200	122,200	60.0	104,100	104,100
25	39.0	94,900	94,900	52.5	94,400	94,400
30	21.5	76,600	76,600	44.5	76,100	76,100
35				34.0	61,200	61,900
40				19.0	47,300	47,900
45						
50						
55						
60						
Min.Bm.	0	50,700	50,700	0	38,000	38,000
Ang./Cap.	(31.5)			(41.5)		

Load Radius (Ft)	60 Ft.			70 Ft.		
	∠°	360°	Front	∠°	360°	Front
10	76.0	102,500	102,500	78.5	101,500	101,500
12	74.0	102,500	102,500	76.5	101,500	101,500
15	71.0	102,500	102,500	74.0	101,500	101,500
20	66.0	102,500	102,500	70.0	95,200	95,200
25	60.0	93,900	93,900	65.5	81,100	81,100
30	54.0	75,800	75,800	60.5	70,300	70,300
35	47.5	60,400	61,200	55.5	59,900	60,600
40	40.0	46,900	47,500	50.0	46,400	47,000
45	31.0	37,500	38,000	44.0	37,100	37,600
50	17.0	30,500	31,000	37.0	30,300	30,700
55				28.5	25,100	25,500
60				15.5	20,900	21,200
Min.Bm.	0	28,800	28,900	0	19,800	20,100
Ang./Cap.	(51.5)			(61.5)		

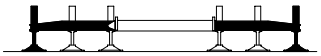
Load Radius (Ft)	80 Ft.			90 Ft.		
	∠°	360°	Front	∠°	360°	Front
12	79.0	100,100	100,100			
15	76.5	88,800	88,800	78.5	81,900	81,900
20	73.0	74,300	74,300	75.5	69,900	69,900
25	69.0	63,500	63,500	72.0	59,800	59,800
30	65.0	55,000	55,000	68.5	51,700	51,700
35	61.0	48,200	48,200	65.0	45,300	45,300
40	56.5	42,800	42,800	61.5	40,100	40,100
45	52.0	36,700	37,200	57.5	35,600	35,600
50	47.0	30,000	30,400	53.5	29,700	30,200
55	41.0	24,800	25,200	49.0	24,600	24,900
60	34.5	20,700	21,100	44.0	20,500	20,800
65	27.0	17,400	17,700	39.0	17,300	17,500
70	14.5	14,700	14,900	33.0	14,600	14,900
75				25.5	12,200	12,500
80				14.0	10,300	10,500
Min.Bm.	0	13,900	14,200	0	9,700	9,900
Ang./Cap.	(71.5)			(81.5)		

Load Radius (Ft)	95 Ft.		
	∠°	360°	Front
12			
15			
20	76.5	61,800	61,800
25	73.5	57,400	57,400
30	70.0	49,700	49,700
35	67.0	43,500	43,500
40	63.5	38,400	38,400
45	60.0	34,200	34,200
50	56.0	29,600	30,100
55	52.0	24,500	24,800
60	47.5	20,400	20,700
65	43.0	17,200	17,400
70	38.0	14,500	14,800
75	32.0	12,200	12,500
80	25.0	10,200	10,500
Min.Bm.	0	8,000	8,300
Ang./Cap.	(86.5)		

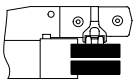
( ) Reference Radius For Minimum Boom Angle Capacities (Shown In Parenthesis) Are In Feet.

∠° Loaded Boom Angle In Degrees.

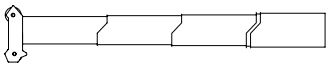
Rated Lifting Capacities In Pounds



Full



24,000# Counterweight



Boom Mode "Amax2"

Load Radius (Ft)	40 Ft.			50 Ft.		
	∠°	360°	Front	∠°	360°	Front
10	68.0	200,000	200,000	72.5	52,000	52,000
12	64.5	182,500	183,100	70.0	52,000	52,000
15	59.5	158,300	158,800	66.5	52,000	52,000
20	50.0	122,200	122,200	60.0	52,000	52,000
25	39.0	94,900	94,900	52.5	52,000	52,000
30	21.5	76,600	76,600	44.0	52,000	52,000
35				34.0	52,000	52,000
40				19.0	49,800	50,400
45						
50						
55						
60						
Min.Bm.	0	50,700	50,700	0	33,300	33,300
Ang./Cap.	(31.5)			(41.5)		

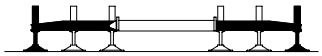
Load Radius (Ft)	60 Ft.			70 Ft.		
	∠°	360°	Front	∠°	360°	Front
10	75.5	52,000	52,000	78.0	52,000	52,000
12	74.0	52,000	52,000	76.5	52,000	52,000
15	71.0	52,000	52,000	74.0	52,000	52,000
20	65.5	52,000	52,000	70.0	52,000	52,000
25	60.0	52,000	52,000	65.5	52,000	52,000
30	54.0	52,000	52,000	60.5	52,000	52,000
35	47.5	52,000	52,000	55.5	52,000	52,000
40	40.0	51,000	51,600	50.0	51,700	52,000
45	31.0	41,400	41,900	44.0	42,000	42,500
50	17.0	34,300	34,700	37.0	35,000	35,400
55				28.5	29,600	30,000
60				15.5	25,300	25,700
Min.Bm.	0	23,800	23,800	0	18,200	18,200
Ang./Cap.	(51.5)			(61.5)		

Load Radius (Ft)	80.0 Ft.			90.0 Ft.		
	∠°	360°	Front	∠°	360°	Front
12	78.0	53,200	53,200			
15	76.5	53,200	53,200	78.0	54,500	54,500
20	73.0	53,200	53,200	75.0	54,500	54,500
25	69.0	53,200	53,200	71.5	54,500	54,500
30	65.0	53,200	53,200	68.5	54,500	54,500
35	61.0	53,200	53,200	65.0	50,300	50,300
40	56.5	52,100	52,600	61.0	45,500	45,500
45	51.5	42,400	42,900	57.0	41,400	41,400
50	46.5	35,400	35,800	53.0	35,700	36,100
55	41.0	30,100	30,500	48.5	30,400	30,800
60	34.5	25,800	26,200	44.0	26,100	26,500
65	26.5	22,400	22,700	38.5	22,700	23,000
70	14.5	19,500	19,800	32.5	19,900	20,200
75				25.0	17,500	17,700
80				14.0	15,500	15,700
85						
90						
Min.Bm.	0	14,200	14,200	0	11,300	11,300
Ang./Cap.	(71.5)			(81.5)		

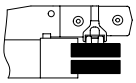
Load Radius (Ft)	100 Ft.		
	∠°	360°	Front
12			
15	79.5	56,000	56,000
20	77.0	56,000	56,000
25	74.0	53,700	53,700
30	71.0	47,500	47,500
35	68.0	42,400	42,400
40	64.5	38,300	38,300
45	61.5	34,800	34,800
50	58.0	31,800	31,800
55	54.5	29,300	29,300
60	50.5	26,400	26,700
65	46.5	22,900	23,200
70	42.0	20,100	20,400
75	37.0	17,700	18,000
80	31.0	15,800	16,000
85	24.0	14,000	14,300
90	13.5	12,500	12,700
Min.Bm.	0	9,100	9,100
Ang./Cap.	(91.5)		

Load Radius (Ft)	110 Ft.			122.5 Ft.		
	∠°	360°	Front	∠°	360°	Front
20	78.5	55,300	55,300			
25	76.0	49,100	49,100	77.5	37,800	37,800
30	73.0	43,500	43,500	75.5	37,800	37,800
35	70.5	38,900	38,900	73.0	35,300	35,300
40	67.5	35,100	35,100	70.5	31,900	31,900
45	64.5	31,900	31,900	68.0	29,000	29,000
50	61.5	29,100	29,100	65.5	26,500	26,500
55	58.5	26,700	26,700	62.5	24,300	24,300
60	55.5	24,700	24,700	60.0	22,400	22,400
65	52.0	22,800	22,800	57.0	20,700	20,700
70	48.0	20,300	20,500	54.0	19,200	19,200
75	44.5	17,900	18,100	51.0	17,800	17,800
80	40.0	16,000	16,200	47.5	16,200	16,400
85	35.5	14,200	14,500	44.0	14,400	14,600
90	30.0	12,700	12,900	40.5	12,900	13,100
95	23.0	11,400	11,600	36.0	11,600	11,800
100	13.0	10,200	10,400	31.5	10,400	10,600
105				25.5	9,300	9,500
110				18.0	8,400	8,500
Min.Bm	0	7,400	7,400	0	5,800	5,800
Ang/Cap	(101.5)			(114.0)		

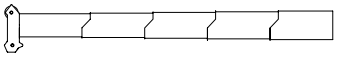
Rated Lifting Capacities In Pounds



Full



24,000# Counterweight



Boom Mode "Std"

Load Radius (Ft)	40 Ft.			50 Ft.		
	∠°	360°	Front	∠°	360°	Front
10	68.0	200,000	200,000	72.5	52,000	52,000
12	64.5	182,500	183,100	70.0	52,000	52,000
15	59.5	158,300	158,800	66.5	52,000	52,000
20	50.0	122,200	122,200	59.5	52,000	52,000
25	39.0	94,900	94,900	52.5	52,000	52,000
30	21.5	76,600	76,600	44.0	52,000	52,000
35				34.0	52,000	52,000
40				19.0	49,000	49,600
45						
50						
55						
60						
Min.Bm. Ang./Cap.	0 (31.5)	50,700	50,700	0 (41.5)	34,200	34,200

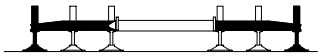
Load Radius (Ft)	60 Ft.			70 Ft.		
	∠°	360°	Front	∠°	360°	Front
10	75.5	52,000	52,000	78.0	52,000	52,000
12	73.5	52,000	52,000	76.0	52,000	52,000
15	70.5	52,000	52,000	73.5	52,000	52,000
20	65.5	52,000	52,000	69.5	52,000	52,000
25	60.0	52,000	52,000	65.0	52,000	52,000
30	54.0	52,000	52,000	60.5	52,000	52,000
35	47.5	52,000	52,000	55.5	52,000	52,000
40	40.0	49,600	50,200	50.0	49,900	50,500
45	31.0	40,000	40,600	43.5	40,300	40,800
50	17.0	33,000	33,400	37.0	33,400	33,900
55				28.5	28,100	28,500
60				15.5	23,800	24,200
Min.Bm. Ang./Cap.	0 (51.5)	24,700	24,700	0 (61.5)	18,900	18,900

Load Radius (Ft)	80 Ft.			90 Ft.		
	∠°	360°	Front	∠°	360°	Front
12	78.0	52,500	52,500			
15	76.0	52,500	52,500	78.0	53,500	53,500
20	72.5	52,500	52,500	75.0	53,500	53,500
25	68.5	52,500	52,500	71.5	53,500	53,500
30	65.0	52,500	52,500	68.5	53,500	53,500
35	61.0	52,500	52,500	65.0	53,500	53,500
40	56.5	50,000	50,600	61.0	50,200	50,800
45	51.5	40,500	41,000	57.0	40,600	41,100
50	46.5	33,600	34,000	53.0	33,700	34,200
55	41.0	28,300	28,700	48.5	28,400	28,800
60	34.5	24,100	24,400	44.0	24,200	24,600
65	26.5	20,700	21,000	38.5	20,800	21,100
70	14.5	17,900	18,100	32.5	18,000	18,300
75				25.0	15,700	16,000
80				13.5	13,700	14,000
85						
90						
95						
100						
Min.Bm. Ang./Cap.	0 (71.5)	14,600	14,600	0 (81.5)	11,500	11,500

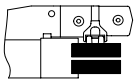
Load Radius (Ft)	100 Ft.			110 Ft.		
	∠°	360°	Front	∠°	360°	Front
12						
15	79.5	54,000	54,000			
20	77.0	54,000	54,000	78.5	56,000	56,000
25	74.0	54,000	54,000	76.5	56,000	56,000
30	71.5	54,000	54,000	73.5	53,500	53,500
35	68.0	54,000	54,000	70.5	47,400	47,400
40	65.0	48,900	48,900	68.0	42,400	42,400
45	61.5	40,700	41,200	65.0	38,100	38,100
50	58.0	33,800	34,200	62.0	33,900	34,300
55	54.0	28,500	28,900	58.5	28,500	28,900
60	50.0	24,300	24,600	55.0	24,300	24,700
65	46.0	20,900	21,200	51.5	21,000	21,300
70	41.5	18,100	18,400	48.0	18,200	18,500
75	36.5	15,900	16,200	44.0	16,000	16,200
80	31.0	13,900	14,100	40.0	14,000	14,200
85	24.0	12,100	12,400	35.0	12,300	12,500
90	13.0	10,600	10,800	29.5	10,700	11,000
95				23.0	9,400	9,600
100				12.5	8,200	8,400
Min.Bm. Ang./Cap.	0 (91.5)	9,100	9,100	0 (101.5)	7,200	7,200

Load Radius (Ft)	120 Ft.			130 Ft.		
	∠°	360°	Front	∠°	360°	Front
25	78.0	53,200	53,200			
30	75.5	46,700	46,700	77.0	46,100	46,100
35	73.0	41,400	41,400	75.0	40,800	40,800
40	70.0	37,000	37,000	72.5	36,400	36,400
45	67.5	33,300	33,300	70.0	32,800	32,800
50	65.0	30,100	30,100	67.5	29,600	29,600
55	62.0	27,300	27,300	65.0	26,900	26,900
60	59.0	24,400	24,700	62.5	24,400	24,500
65	56.0	21,000	21,300	60.0	21,000	21,300
70	53.0	18,200	18,500	57.0	18,200	18,500
75	49.5	16,000	16,300	54.0	16,100	16,300
80	46.0	14,000	14,300	51.0	14,100	14,300
85	42.5	12,300	12,500	48.0	12,300	12,600
90	38.5	10,800	11,000	44.5	10,800	11,100
95	34.0	9,500	9,700	41.0	9,500	9,700
100	28.5	8,300	8,500	37.0	8,400	8,600
105	22.5	7,300	7,500	33.0	7,300	7,500
110	12.5	6,300	6,500	28.0	6,400	6,600
115				21.5	5,600	5,700
120				12.0	4,800	5,000
125						
130						
135						
140						
Min.Bm. Ang./Cap.	0 (111.5)	5,700	5,700	0 (121.5)	4,500	4,500

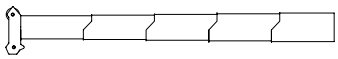
Rated Lifting Capacities In Pounds



Full



24,000# Counterweight



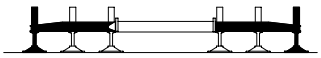
Boom Mode "Std"

Load Radius (Ft)	140 Ft.			150 Ft.		
	∠°	360○	Front	∠°	360○	Front
25						
30	78.0	32,000	32,000	79.0	30,000	30,000
35	76.5	32,000	32,000	77.5	30,000	30,000
40	74.5	32,000	32,000	75.5	30,000	30,000
45	72.0	31,500	31,500	74.0	30,000	30,000
50	70.0	28,500	28,500	72.0	27,500	27,500
55	67.5	25,900	25,900	70.0	25,000	25,000
60	65.5	23,600	23,600	68.0	22,700	22,700
65	63.0	21,000	21,300	65.5	20,800	20,800
70	60.5	18,200	18,500	63.0	18,200	18,500
75	57.5	16,100	16,300	61.0	16,100	16,400
80	55.0	14,100	14,300	58.5	14,100	14,300
85	52.0	12,400	12,600	56.0	12,400	12,600
90	49.5	10,900	11,100	53.5	10,900	11,100
95	46.5	9,600	9,800	50.5	9,600	9,800
100	43.0	8,400	8,600	48.0	8,400	8,600
105	39.5	7,400	7,500	45.0	7,400	7,600
110	36.0	6,400	6,600	42.0	6,500	6,600
115	32.0	5,600	5,800	38.5	5,600	5,800
120	27.0	4,800	5,000	35.0	4,900	5,000
125	21.0	4,100	4,300	31.0	4,200	4,300
130	12.0	3,500	3,700	26.5	3,500	3,700
135				20.5	3,000	3,100
140				12.0	2,400	2,600
Min.Bm. Ang./Cap.	0 (131.5)	3,400	3,500	0 (141.5)	2,300	2,400

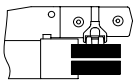
( ) Reference Radius For Minimum Boom Angle Capacities (Shown In Parenthesis) Are In Feet.

∠ ° Loaded Boom Angle In Degrees.

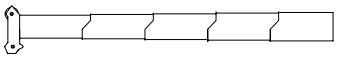
Rated Lifting Capacities In Pounds



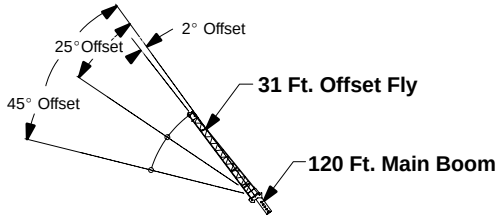
Full

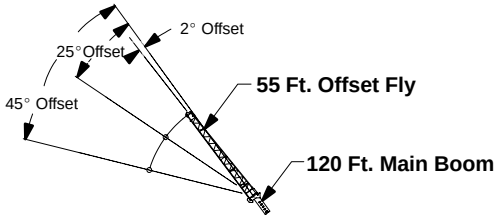


24,000# Counterweight



Boom Mode "Std"





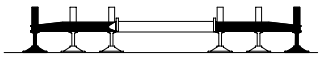
Load Radius (Ft.)	2° Offset		25° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°
30	78.5	28,100				
35	76.5	26,700				
40	75.0	25,400	78.5	16,900		
45	73.0	24,200	77.0	16,400		
50	71.0	23,100	75.0	16,000	78.0	13,600
55	69.0	20,300	73.0	15,500	76.0	13,400
60	67.0	19,600	71.0	15,200	74.0	13,300
65	65.0	18,900	69.0	14,800	72.0	13,100
70	63.0	18,200	67.0	14,500	69.5	13,000
75	60.5	17,100	64.5	14,200	67.5	12,800
80	58.0	15,300	62.5	13,900	65.0	12,700
85	55.5	13,500	60.0	13,700	62.5	12,500
90	53.0	12,000	58.0	13,100	60.0	12,400
95	50.5	10,700	55.0	11,600	57.5	12,100
100	48.0	9,500	52.0	10,300	54.5	10,800
105	45.0	8,500	49.5	9,200	51.5	9,500
110	42.0	7,500	46.0	8,200	48.0	8,400
115	38.5	6,700	43.0	7,200	44.5	7,400
120	35.0	5,900	39.0	6,400		
125	31.5	5,200	35.0	5,600		
130	27.0	4,600	30.5	4,900		
135	21.5	4,000	25.0	4,200		
140	14.0	3,500				
Min.Bm. Ang./Cap	0	2,200	0	2,400	0	2,600

Load Radius (Ft.)	2° Offset		25° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°
35	78.5	14,200				
40	77.0	13,700				
45	75.5	13,200				
50	74.0	12,800				
55	72.5	12,300	79.0	9,500		
60	71.0	11,900	77.5	9,200		
65	69.0	11,500	76.0	9,000		
70	67.5	11,100	74.0	8,700	79.0	7,000
75	65.5	10,800	72.5	8,400	77.0	6,900
80	64.0	10,400	70.5	8,200	75.0	6,700
85	62.0	10,100	68.5	7,900	73.0	6,600
90	60.5	9,800	67.0	7,700	71.0	6,500
95	58.5	9,500	65.0	7,500	69.0	6,400
100	56.5	9,300	63.0	7,300	67.0	6,300
105	54.5	9,000	61.0	7,100	64.5	6,200
110	52.5	8,500	58.5	6,900	62.5	6,200
115	50.0	7,700	56.5	6,800	60.0	6,100
120	47.5	6,900	54.0	6,600	57.5	6,100
125	45.0	6,200	51.5	6,500	54.5	6,000
130	42.5	5,500	49.0	6,400	52.0	6,000
135	39.5	4,900	46.0	5,700	48.5	6,000
140	36.5	4,400	43.0	5,000	45.0	5,200
145	33.5	3,900	39.5	4,400		
150	30.0	3,400	35.5	3,900		
155	26.0	3,000	31.0	3,300		
160	21.0	2,600	25.0	2,800		
165	13.0	2,200				
Min.Bm. Ang./Cap	0	1,100	0	1,200	0	1,500

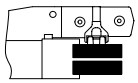
∠° Loaded Boom Angle In Degrees.

***This capacity based on maximum obtainable boom angle.**

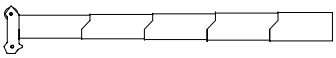
Rated Lifting Capacities In Pounds



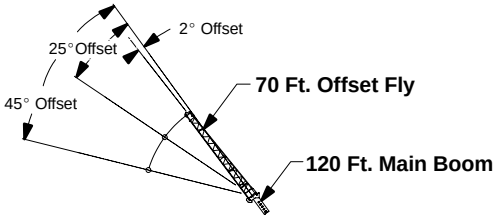
Full

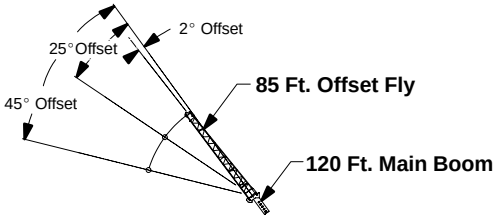


24,000# Counterweight



Boom Mode "Std"





Load Radius (Ft.)	2° Offset		25° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°
40	78.5	11,600				
45	77.5	11,100				
50	76.0	10,600				
55	74.5	10,100				
60	73.0	9,600				
65	71.5	9,200	79.5	6,400		
70	70.0	8,800	77.5	6,100		
75	68.5	8,400	76.0	5,900		
80	66.5	8,100	74.5	5,700		
85	65.0	7,700	73.0	5,500	78.5	4,500
90	63.5	7,300	71.0	5,400	77.0	4,400
95	62.0	7,000	69.5	5,200	75.0	4,300
100	60.0	6,700	67.5	5,100	73.0	4,300
105	58.5	6,400	66.0	4,900	71.0	4,200
110	56.5	6,200	64.0	4,800	69.5	4,100
115	54.5	5,900	62.0	4,700	67.0	4,100
120	52.5	5,700	60.5	4,600	65.0	4,000
125	50.5	5,500	58.0	4,500	63.0	4,000
130	48.5	5,300	56.0	4,400	60.5	4,000
135	46.5	5,100	54.0	4,300	58.0	4,000
140	44.0	4,600	51.5	4,200	55.5	4,000
145	41.5	4,100	49.0	4,100	52.5	4,000
150	39.0	3,600	46.5	4,100	49.5	4,000
155	36.0	3,200	43.5	3,900	46.0	4,000
160	33.0	2,800	40.0	3,400		
165	30.0	2,400	36.5	2,900		
170	26.0	2,000	32.0	2,400		
175	21.5	1,700	26.0	1,900		
180	14.0	1,400				
Min.Bm. Ang./Cap	0	200	0	400	0	700

Load Radius (Ft.)	2° Offset		25° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°
45	78.5	8,300				
50	77.0	7,800				
55	76.0	7,400				
60	74.5	7,000				
65	73.0	6,600				
70	71.5	6,200				
75	70.5	5,800	79.5	3,800		
80	69.0	5,500	78.0	3,700		
85	67.5	5,200	76.5	3,500		
90	66.0	5,000	75.0	3,400		
95	64.5	4,700	73.5	3,300		
100	63.0	4,500	72.0	3,100	78.5	2,500
105	61.5	4,300	70.5	3,000	77.0	2,400
110	60.0	4,100	68.5	2,900	75.0	2,400
115	58.0	3,900	67.0	2,800	73.5	2,300
120	56.5	3,700	65.5	2,800	71.5	2,300
125	55.0	3,500	63.5	2,700	69.5	2,300
130	53.0	3,400	62.0	2,600	67.5	2,200
135	51.0	3,300	60.0	2,500	65.5	2,200
140	49.5	3,100	58.0	2,500	63.5	2,200
145	47.5	3,000	56.0	2,400	61.0	2,200
150	45.5	2,900	54.0	2,400	59.0	2,200
155	43.0	2,800	51.5	2,300	56.0	2,200
160	41.0	2,700	49.5	2,300	53.5	2,200
165	38.5	2,500	47.0	2,300	50.0	2,200
170	36.0	2,200	44.0	2,200	46.5	2,200
175	33.0	1,800	41.0	2,200		
180	30.0	1,500	37.5	2,000		
185	26.5	1,200	33.0	1,600		

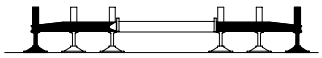
WARNING

Do Not Lower 85 Ft. Offset Fly In Working Position Below 25.5° Main Boom Angle Unless Main Boom Length Is 119 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

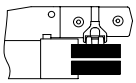
∠° Loaded Boom Angle In Degrees.

This capacity based on maximum obtainable boom angle.

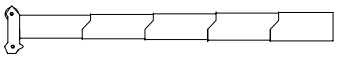
Rated Lifting Capacities In Pounds



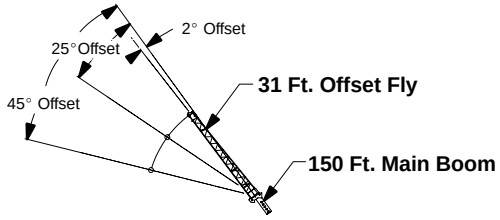
Full



24,000# Counterweight



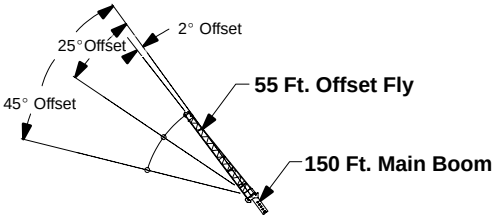
Boom Mode "Std"



Load Radius (Ft.)	2° Offset		25° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°
35	79.5	15,000				
40	78.0	15,000				
45	76.5	15,000				
50	75.5	15,000	79.0	14,700		
55	74.0	15,000	77.5	14,500		
60	72.5	15,000	76.0	14,200	78.5	12,700
65	71.0	15,000	74.5	14,000	77.0	12,500
70	69.5	15,000	73.0	13,800	75.5	12,400
75	68.0	15,000	71.5	13,600	73.5	12,300
80	66.0	14,500	70.0	13,400	72.0	12,200
85	64.0	13,100	68.0	13,200	70.5	12,100
90	62.0	11,600	66.5	12,800	68.5	12,000
95	60.0	10,200	64.0	11,300	66.5	11,900
100	58.0	9,100	62.0	10,100	64.5	10,700
105	56.0	8,000	60.0	8,900	62.0	9,500
110	54.0	7,100	57.5	7,900	60.0	8,400
115	51.5	6,200	55.5	7,000	57.5	7,400
120	49.0	5,500	53.0	6,200	55.0	6,500
125	47.0	4,800	50.5	5,400	52.5	5,700
130	44.5	4,100	48.0	4,700	49.5	4,900
135	42.0	3,600	45.5	4,100	46.5	4,300
140	39.0	3,000	42.5	3,500		
145	36.0	2,500	39.5	2,900		
150	33.0	2,100	36.5	2,400		
155	29.5	1,700	32.5	1,900		
160	25.5	1,300	28.5	1,500		

WARNING

Do Not Lower 31 Ft. Offset Fly In Working Position Below 21.5° Main Boom Angle Unless Main Boom Length Is 144 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.



Load Radius (Ft.)	2° Offset		25° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°
45	78.5	10,100				
50	77.5	10,100				
55	76.0	10,100				
60	75.0	10,100				
65	73.5	10,000	79.5	8,200		
70	72.5	9,800	78.0	8,100		
75	71.0	9,600	76.5	7,900		
80	70.0	9,500	75.5	7,800	79.5	6,600
85	68.5	9,300	74.0	7,700	78.0	6,500
90	67.0	9,100	72.5	7,600	76.5	6,400
95	65.5	8,900	71.0	7,400	74.5	6,300
100	64.0	8,800	69.5	7,200	73.0	6,200
105	62.5	8,600	68.0	7,100	71.5	6,100
110	61.0	7,900	66.5	6,900	70.0	6,100
115	59.0	7,000	65.0	6,800	68.0	6,000
120	57.0	6,200	63.0	6,700	66.5	5,900
125	55.0	5,500	61.5	6,500	64.5	5,900
130	53.5	4,900	59.5	6,000	62.5	5,900
135	51.5	4,300	57.5	5,300	60.5	5,900
140	49.0	3,700	55.0	4,700	58.5	5,200
145	47.0	3,200	53.0	4,100	56.0	4,500
150	45.0	2,800	50.5	3,500	53.5	3,900
155	42.5	2,300	48.0	3,000	50.5	3,300
160	40.5	1,900	45.5	2,600	47.5	2,800
165	38.0	1,600	43.0	2,100	44.5	2,300
170			40.0	1,700		
175			37.0	1,300		

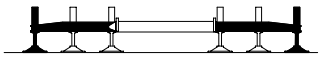
WARNING

Do Not Lower 55 Ft. Offset Fly In Working Position Below 35° Main Boom Angle Unless Main Boom Length Is 135 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

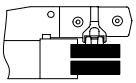
∠° Loaded Boom Angle In Degrees.

***This capacity based on maximum obtainable boom angle.**

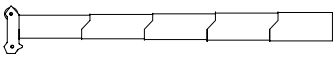
Rated Lifting Capacities In Pounds



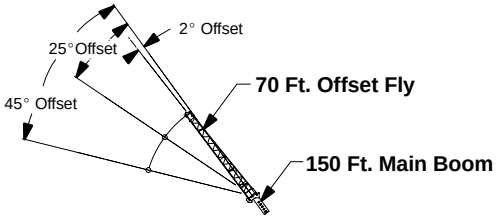
Full



24,000# Counterweight



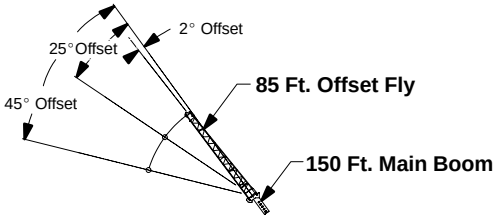
Boom Mode "Std"



Load Radius (Ft.)	2° Offset		25° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°
45	80.0*	9,300				
50	79.0	9,100				
55	78.0	8,900				
60	76.5	8,600				
65	75.5	8,400				
70	74.5	8,100				
75	73.0	7,900				
80	72.0	7,700	78.5	5,500		
85	70.5	7,400	77.0	5,400		
90	69.5	7,200	76.0	5,200		
95	68.0	6,900	74.5	5,100	79.5	4,200
100	66.5	6,700	73.0	5,000	78.0	4,200
105	65.5	6,500	71.5	4,900	76.5	4,100
110	64.0	6,300	70.5	4,700	75.0	4,000
115	62.5	6,100	69.0	4,600	73.5	4,000
120	61.0	5,900	67.5	4,600	72.0	4,000
125	59.5	5,700	66.0	4,500	70.0	3,900
130	57.5	5,100	64.5	4,400	68.5	3,900
135	56.0	4,500	63.0	4,300	67.0	3,900
140	54.0	3,900	61.0	4,200	65.0	3,800
145	52.5	3,400	59.5	4,200	63.5	3,800
150	50.5	2,900	57.5	4,000	61.5	3,800
155	48.5	2,500	55.5	3,500	59.5	3,800
160	46.5	2,100	53.5	3,000	57.0	3,500
165	44.5	1,700	51.0	2,500	54.5	2,900
170			49.0	2,100	51.5	2,400
175			46.5	1,700	49.0	1,900
180			44.0	1,300	46.0	1,500

WARNING

Do Not Lower 70 Ft. Offset Fly In Working Position Below 42.5° Main Boom Angle Unless Main Boom Length Is 127 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.



Load Radius (Ft.)	2° Offset		25° Offset		45° Offset	
	∠°	360°	∠°	360°	∠°	360°
50	80.0*	6,800				
55	79.0	6,500				
60	78.0	6,300				
65	76.5	6,000				
70	75.5	5,800				
75	74.5	5,500				
80	73.5	5,300				
85	72.0	5,100				
90	71.0	4,900	78.5	3,300		
95	70.0	4,700	77.5	3,200		
100	68.5	4,500	76.5	3,100		
105	67.5	4,300	75.0	3,000		
110	66.0	4,100	74.0	2,900	79.5	2,300
115	65.0	4,000	72.5	2,800	78.0	2,300
120	63.5	3,800	71.0	2,700	77.0	2,200
125	62.0	3,700	70.0	2,700	75.5	2,200
130	61.0	3,500	68.5	2,600	74.0	2,200
135	59.5	3,400	67.0	2,500	72.5	2,100
140	58.0	3,300	65.5	2,500	71.0	2,100
145	56.5	3,200	64.0	2,400	69.0	2,100
150	55.0	3,000	62.5	2,400	67.5	2,100
155	53.5	2,600	61.0	2,300	66.0	2,100
160	51.5	2,200	59.5	2,300	64.0	2,100
165	50.0	1,800	58.0	2,200	62.0	2,100
170			56.0	2,200	60.0	2,100
175			54.0	1,900	58.0	2,100
180			52.0	1,600	55.5	1,900
185			50.0	1,300	53.0	1,500
190					50.5	1,200

WARNING

Do Not Lower 85 Ft. Offset Fly In Working Position Below 48.5° Main Boom Angle Unless Main Boom Length Is 119 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

∠° Loaded Boom Angle In Degrees.

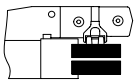
***This capacity based on maximum obtainable boom angle.**

Rated Lifting Capacities In PoundsStationary – Rear Between Tire Tracks

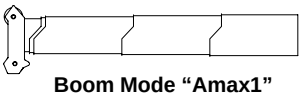
With Outrigger Boxes



On Tires–Rear



24,000# Counterweight



Boom Mode "Amax1"

Load Radius (Ft)	40 Ft.		50 Ft.	
	∠°	Rear	∠°	Rear
10	67.5	92,000		
12	64.5	73,200	70.0	61,800
15	59.5	62,300	66.5	61,800
20	50.0	49,500	59.5	49,100
25	38.5	37,600	52.5	37,200
30	21.5	27,100	44.0	26,800
35			34.0	20,000
40			18.5	15,200
45				
50				
55				
60				
Min.Bm.	0	24,700	0	13,900
Ang./Cap.	(31.5)		(41.5)	

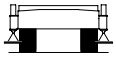
Load Radius (Ft)	60 Ft.		70 Ft.	
	∠°	Rear	∠°	Rear
10				
12				
15	70.5	36,800		
20	65.5	36,800	69.5	26,200
25	60.0	36,800	65.0	26,200
30	54.0	26,600	60.0	26,200
35	47.0	19,700	55.0	19,600
40	40.0	15,000	49.5	14,900
45	30.5	11,500	43.5	11,300
50	16.5	8,700	36.5	8,600
55			28.0	6,400
60			15.5	4,600
Min.Bm.	0	8,000	0	4,100
Ang./Cap.	(51.5)		(61.5)	

Load Radius (Ft)	80 Ft.		90 Ft.		95 Ft.	
	∠°	Rear	∠°	Rear	∠°	Rear
30	64.5	25,900	68.0	19,100	69.5	14,500
35	60.0	19,300	64.0	19,100	66.0	14,500
40	56.0	14,700	60.5	14,500	62.5	14,500
45	51.0	11,200	56.5	11,100	58.5	11,000
50	46.0	8,500	52.5	8,400	55.0	8,300
55	40.5	6,300	48.0	6,200	51.0	6,200
60	34.0	4,600	43.5	4,500	47.0	4,400
65	26.5	3,100	38.0	3,000	42.0	3,000
MinBm	19.5		35.0		39.5	
Ang./Cap	(68.3)		(67.6)		(67.5)	

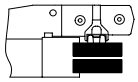
( ) Reference Radius For Minimum Boom Angle Capacities (Shown In Parenthesis) Are In Feet.

Rated Lifting Capacities In PoundsStationary – Rear Between Tire Tracks

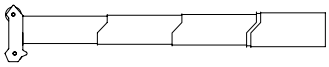
With Outrigger Boxes



On Tires–Rear



24,000# Counterweight



Boom Mode "Amax2"

Load Radius (Ft)	40 Ft.		50 Ft.	
	∠°	Rear	∠°	Rear
10	67.5	92,000		
12	64.5	73,200	70.0	52,000
15	59.5	62,300	66.5	52,000
20	50.0	49,500	59.5	50,700
25	38.5	37,600	52.5	39,400
30	21.5	27,100	44.0	28,800
35			34.0	21,800
40			18.5	17,000
45				
50				
55				
60				
Min.Bm.	0	24,700	0	15,800
Ang./Cap.	(31.5)		(41.5)	

Load Radius (Ft)	60 Ft.		70 Ft.	
	∠°	Rear	∠°	Rear
10				
12				
15	70.5	40,300		
20	65.5	40,300	69.5	35,000
25	59.5	40,300	64.5	35,000
30	53.5	29,800	60.0	30,300
35	47.0	22,800	55.0	23,400
40	39.5	17,900	49.5	18,500
45	30.5	14,300	43.5	14,900
50	16.5	11,500	36.5	12,100
55			28.0	9,900
60			15.0	8,100
Min.Bm.	0	10,800	0	7,600
Ang./Cap.	(51.5)		(61.5)	

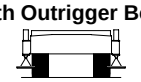
Load Radius (Ft)	80 Ft.		90 Ft.		100 Ft.	
	∠°	Rear	∠°	Rear	∠°	Rear
30	64.5	30,700	67.5	24,100	70.5	19,400
35	60.0	23,800	64.0	24,100	67.0	19,400
40	55.5	19,000	60.5	19,200	64.0	19,400
45	51.0	15,400	56.5	15,700	60.5	15,900
50	46.0	12,600	52.5	12,900	57.0	13,200
55	40.5	10,300	48.0	10,700	53.5	10,900
60	34.0	8,500	43.0	8,800	49.5	9,100
65	26.0	7,000	38.0	7,300	45.5	7,600
70	14.0	5,700	32.0	6,100	41.0	6,300
75			24.5	5,000	36.0	5,200
80			13.5	4,000	30.5	4,300
85					23.5	3,400
90					12.5	2,700
Min.Bm.	0	5,400	0	3,800	0	2,600
Ang/Cap.	(71.5)		(81.5)		(91.5)	

Load Radius (Ft)	110 Ft.		122.5 Ft.	
	∠°	Rear	∠°	Rear
35	70.0	16,100		
40	67.0	16,100	69.5	13,500
45	64.0	16,100	67.0	13,500
50	60.5	13,300	64.5	13,500
55	57.5	11,100	61.5	11,200
60	54.0	9,300	59.0	9,500
65	51.0	7,800	56.0	8,000
70	47.0	6,500	53.0	6,700
75	43.5	5,400	49.5	5,600
80	39.0	4,400	46.5	4,600
85	34.5	3,600	43.0	3,800
90	29.0	2,900	39.0	3,100
95	22.5	2,300	35.0	2,400
100	12.0	1,700	30.0	1,900
Min.Bm.	0	1,600	25.0	
Ang/Cap.	(101.5)		(104.4)	

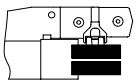
( ) Reference Radius For Minimum Boom Angle Capacities (Shown In Parenthesis) Are In Feet.

Rated Lifting Capacities In PoundsStationary – Rear Between Tire Tracks

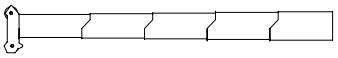
With Outrigger Boxes



On Tires–Rear



24,000# Counterweight



Boom Mode "Std"

Load Radius (Ft)	40 Ft.		50 Ft.	
	∠°	Rear	∠°	Rear
10	67.5	92,000		
12	64.5	73,200	70.0	52,000
15	59.5	62,300	66.5	52,000
20	50.0	49,500	59.5	50,200
25	38.5	37,600	52.5	38,600
30	21.5	27,100	44.0	28,100
35			34.0	21,200
40			18.5	16,400
45				
50				
55				
60				
Min.Bm.	0	24,700	0	15,100
Ang./Cap.	(31.5)		(41.5)	

Load Radius (Ft)	60 Ft.		70 Ft.	
	∠°	Rear	∠°	Rear
10				
12				
15	70.5	39,100		
20	65.5	39,100	69.5	28,900
25	59.5	39,100	64.5	28,900
30	53.5	28,700	60.0	28,900
35	47.0	21,700	55.0	22,100
40	39.5	17,000	49.5	17,300
45	30.5	13,300	43.5	13,700
50	16.5	10,500	36.5	10,900
55			28.0	8,700
60			15.0	6,900
Min.Bm.	0	9,800	0	6,400
Ang./Cap.	(51.5)		(61.5)	

Load Radius (Ft)	80 Ft.		90 Ft.		100 Ft.	
	∠°	Rear	∠°	Rear	∠°	Rear
30	64.5	29,100	67.5	22,300	70.5	17,600
35	60.0	22,300	64.0	22,300	67.0	17,600
40	55.5	17,500	60.0	17,600	64.0	17,600
45	51.0	14,000	56.5	14,200	60.5	14,200
50	46.0	11,200	52.0	11,400	57.0	11,500
55	40.5	9,000	48.0	9,200	53.5	9,300
60	34.0	7,200	43.0	7,300	49.5	7,500
65	26.0	5,700	38.0	5,900	45.5	6,000
70	14.0	4,400	32.0	4,600	41.0	4,700
75			24.5	3,500	36.0	3,700
80			13.0	2,600	30.5	2,700
85					23.5	1,900
Min.Bm.	0	4,100	0	2,400	21.5	
Ang/Cap	(71.5)		(81.5)		(86.1)	

Load Radius (Ft)	110 Ft.		120 Ft.	
	∠°	Rear	∠°	Rear
35	69.5	14,300		
40	66.5	14,300	69.0	11,600
45	63.5	14,300	66.5	11,600
50	60.5	11,600	63.5	11,600
55	57.5	9,400	61.0	9,400
60	54.0	7,600	58.0	7,700
65	50.5	6,100	55.0	6,200
70	47.0	4,800	52.0	4,900
75	43.0	3,800	48.5	3,800
80	39.0	2,800	45.0	2,900
85	34.5	2,000	41.5	2,100
Min.Bm.	32.5		39.0	
Ang./Cap.	(86.6)		(87.6)	

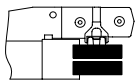
( ) Reference Radius For Minimum Boom Angle Capacities (Shown In Parenthesis) Are In Feet.

Rated Lifting Capacities In Pounds. Between Tire Tracks Pick & Carry – Creep

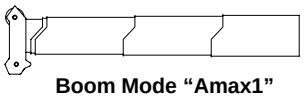
With Outrigger Boxes



On Tires–Creep



24,000# Counterweight



Boom Mode "Amax1"

Load Radius (Ft)	40 Ft.		50 Ft.	
	∠°	Rear	∠°	Rear
10	67.5	90,600		
12	64.5	73,200	70.0	43,700
15	59.5	62,300	66.5	43,700
20	50.0	44,200	59.5	43,700
25	38.5	30,000	52.0	29,600
30	21.5	21,400	44.0	21,200
35			34.0	15,600
40			18.5	11,500
45				
50				
55				
60				
Min.Bm.	0	19,400	0	10,500
Ang./Cap.	(31.5)		(41.5)	

Load Radius (Ft)	60 Ft.		70 Ft.	
	∠°	Rear	∠°	Rear
10				
12				
15	70.5	29,300		
20	65.5	29,300	69.5	20,700
25	59.5	29,300	64.5	20,700
30	53.5	20,900	60.0	20,700
35	47.0	15,400	55.0	15,200
40	39.5	11,400	49.5	11,300
45	30.5	8,400	43.5	8,300
50	16.5	6,000	36.5	5,900
55			28.0	4,100
60			15.5	2,600
Min.Bm.	0	5,400	10.5	
Ang./Cap.	(51.5)		(60.9)	

Load Radius (Ft)	80 Ft.		90 Ft.		95 Ft.	
	∠°	Rear	∠°	Rear	∠°	Rear
30	64.5	20,400	67.5	14,900	69.0	10,900
35	60.0	15,100	64.0	14,900	65.5	10,900
40	55.5	11,100	60.5	11,000	62.0	10,900
45	51.0	8,200	56.5	8,000	58.5	8,000
50	46.0	5,800	52.5	5,700	55.0	5,700
55	40.5	4,000	48.0	3,900	51.0	3,900
60	34.0	2,500	43.5	2,400		
Min.Bm.	33.0		42.5	0	46.5	0
Ang./Cap	(60.5)		(60.2)		(60.0)	

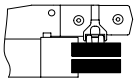
( ) Reference Radius For Minimum Boom Angle Capacities (Shown In Parenthesis) Are In Feet.

Rated Lifting Capacities In Pounds. Between Tire Tracks Pick & Carry – Creep

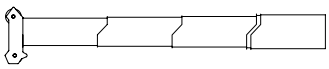
With Outrigger Boxes



On Tires–Creep



24,000# Counterweight



Boom Mode "Amax2"

Load Radius (Ft)	40 Ft.		50 Ft.	
	∠°	Rear	∠°	Rear
10	67.5	90,600		
12	64.5	73,200	70.0	52,000
15	59.5	62,300	66.5	52,000
20	50.0	44,200	59.5	45,900
25	38.5	30,000	52.0	31,600
30	21.5	21,400	44.0	23,000
35			34.0	17,400
40			18.5	13,300
45				
50				
55				
60				
Min.Bm.	0	19,400	0	12,200
Ang./Cap.	(31.5)		(41.5)	

Load Radius (Ft)	60 Ft.		70 Ft.	
	∠°	Rear	∠°	Rear
10				
12				
15	70.5	32,600		
20	65.5	32,600	69.5	26,500
25	59.5	32,600	64.5	26,500
30	53.5	24,000	60.0	24,600
35	47.0	18,200	55.0	18,900
40	39.5	14,200	49.5	14,900
45	30.5	11,200	43.5	11,800
50	16.5	8,800	36.5	9,400
55			28.0	7,500
60			15.0	5,900
Min.Bm.	0	8,200	0	5,500
Ang./Cap.	(51.5)		(61.5)	

Load Radius (Ft)	80 Ft.		90 Ft.		100.Ft.	
	∠°	Rear	∠°	Rear	∠°	Rear
30	64.0	25,000	67.5	19,500	70.5	15,800
35	60.0	19,300	64.0	19,500	67.0	15,800
40	55.5	15,300	60.0	15,600	63.5	15,800
45	51.0	12,200	56.5	12,600	60.5	12,800
50	46.0	9,800	52.0	10,200	57.0	10,400
55	40.5	7,900	48.0	8,200	53.0	8,500
60	34.0	6,300	43.0	6,700	49.5	6,900
65	26.0	5,100	38.0	5,400	45.5	5,600
70	14.0	4,000	32.0	4,300	41.0	4,500
75			24.5	3,300	36.0	3,600
80			13.0	2,500	30.5	2,700
85					23.5	2,000
Min.Bm.	0	3,700	0	2,300	15.5	
Ang/Cap.	(71.5)		(81.5)		(89.0)	

Load Radius (Ft)	110 Ft.		122.5 Ft.	
	∠°	Rear	∠°	Rear
35	69.5	12,900		
40	66.5	12,900	69.5	10,700
45	63.5	12,900	67.0	10,700
50	60.5	10,600	64.0	10,700
55	57.5	8,700	61.5	8,800
60	54.0	7,100	58.5	7,300
65	50.5	5,800	55.5	6,000
70	47.0	4,700	52.5	4,900
75	43.0	3,700	49.5	3,900
80	39.0	2,900	46.0	3,100
85	34.5	2,200	42.5	2,400
90	29.0	1,600	39.0	1,800
Min.Bm.	28.0		36.5	
Ang./Cap.	(90.7)		(92.6)	

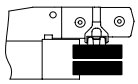
( ) Reference Radius For Minimum Boom Angle Capacities (Shown In Parenthesis) Are In Feet.

Rated Lifting Capacities In Pounds. Between Tire Tracks Pick & Carry – Creep

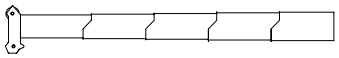
With Outrigger Boxes



On Tires–Creep



24,000# Counterweight



Boom Mode "Std"

Load Radius (Ft)	40 Ft.		50 Ft.	
	∠°	Rear	∠°	Rear
10	67.5	90,600		
12	64.5	73,200	70.0	52,000
15	59.5	62,300	66.5	52,000
20	50.0	44,200	59.5	45,100
25	38.5	30,000	52.0	30,900
30	21.5	21,400	44.0	22,400
35			34.0	16,800
40			18.5	12,700
45				
50				
55				
60				
Min.Bm.	0	19,400	0	11,600
Ang./Cap.	(31.5)		(41.5)	

Load Radius (Ft)	60 Ft.		70 Ft.	
	∠°	Rear	∠°	Rear
10				
12				
15	70.5	31,500		
20	65.5	31,500	69.5	23,300
25	59.5	31,500	64.5	23,300
30	53.5	22,900	60.0	23,300
35	47.0	17,300	54.5	17,600
40	39.5	13,300	49.5	13,600
45	30.5	10,200	43.5	10,600
50	16.5	7,800	36.5	8,200
55			28.0	6,300
60			15.0	4,800
Min.Bm.	0	7,200	0	4,400
Ang./Cap.	(51.5)		(61.5)	

Load Radius (Ft)	80 Ft.		90 Ft.		100 Ft.	
	∠°	Rear	∠°	Rear	∠°	Rear
30	64.0	23,400	67.5	17,900	70.0	14,100
35	60.0	17,800	64.0	17,900	67.0	14,100
40	55.5	13,900	60.0	14,000	63.5	14,100
45	51.0	10,800	56.0	11,000	60.5	11,100
50	46.0	8,500	52.0	8,600	57.0	8,800
55	40.5	6,600	48.0	6,800	53.0	6,900
60	34.0	5,000	43.0	5,200	49.5	5,300
65	26.0	3,700	38.0	3,900	45.0	4,100
70	14.0	2,700	32.0	2,800	41.0	3,000
75			24.5	1,900	36.0	2,000
Min.Bm.	0	2,400	23.5		34.5	
Ang./Cap	(71.5)		(75.4)		(76.3)	

Load Radius (Ft)	110 Ft.		120 Ft.	
	∠°	Rear	∠°	Rear
35	69.5	11,200		
40	66.5	11,200	69.0	8,900
45	63.5	11,200	66.0	8,900
50	60.5	8,900	63.5	8,900
55	57.5	7,000	60.5	7,100
60	54.0	5,400	57.5	5,500
65	50.5	4,200	54.5	4,200
70	47.0	3,100	51.5	3,100
75	43.0	2,100	48.5	2,200
Min.Bm.	41.5		46.5	0
Ang./Cap.	(76.8)		(77.3)	

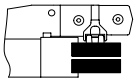
( ) Reference Radius For Minimum Boom Angle Capacities (Shown In Parenthesis) Are In Feet.

Rated Lifting Capacities In Pounds.
Pick & Carry – 2.5 mph

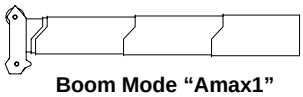
With Outrigger Boxes



On Tires–2.5 mph



24,000# Counterweight



Boom Mode "Amax1"

Load Radius (Ft)	40 Ft.		50 Ft.	
	∠°	Rear	∠°	Rear
10	67.5	88,300		
12	64.5	73,200	70.0	41,400
15	59.5	62,300	66.5	41,400
20	50.0	41,900	59.5	41,400
25	38.5	28,400	52.0	28,100
30	21.5	20,300	44.0	20,000
35			34.0	14,700
40			18.5	10,800
45				
50				
55				
60				
Min.Bm.	0	18,400	0	9,800
Ang./Cap.	(31.5)		(41.5)	

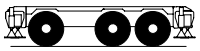
Load Radius (Ft)	60 Ft.		70 Ft.	
	∠°	Rear	∠°	Rear
10				
12				
15	70.5	27,800		
20	65.5	27,800	69.5	19,500
25	59.5	27,800	64.5	19,500
30	53.5	19,800	60.0	19,500
35	47.0	14,500	55.0	14,300
40	39.5	10,600	49.5	10,500
45	30.5	7,800	43.5	7,600
50	16.5	5,500	36.5	5,400
55			28.0	3,600
60			15.5	2,100
Min.Bm.	0	4,900	10.5	
Ang./Cap.	(51.5)		(60.9)	

Load Radius (Ft)	80 Ft.		90 Ft.		95 Ft.	
	∠°	Rear	∠°	Rear	∠°	Rear
30	64.5	19,300	67.5	14,000	69.0	10,200
35	60.0	14,200	64.0	14,000	65.5	10,200
40	55.5	10,400	60.5	10,300	62.0	10,200
45	51.0	7,500	56.5	7,400	58.5	7,400
50	46.0	5,300	52.5	5,200	55.0	5,100
55	40.5	3,500	48.0	3,400	51.0	3,400
60	34.0	2,000	43.5	1,900		
Min.Bm.	33.0		42.5		46.5	
Ang./Cap	(60.5)		(60.2)		(60.0)	

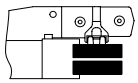
( ) Reference Radius For Minimum Boom Angle Capacities (Shown In Parenthesis) Are In Feet.

Rated Lifting Capacities In Pounds.
Pick & Carry – 2.5 mph

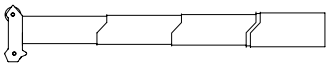
With Outrigger Boxes



On Tires–2.5 mph



24,000# Counterweight



Boom Mode "Amax2"

Load Radius (Ft)	40 Ft.		50 Ft.	
	∠°	Rear	∠°	Rear
10	67.5	88,300		
12	64.5	73,200	70.0	52,000
15	59.5	62,300	66.5	52,000
20	50.0	41,900	59.5	43,600
25	38.5	28,400	52.0	30,000
30	21.5	20,300	44.0	21,800
35			34.0	16,400
40			18.5	12,500
45				
50				
55				
60				
Min.Bm. Ang./Cap.	0 (31.5)	18,400	0 (41.5)	11,500

Load Radius (Ft)	60 Ft.		70 Ft.	
	∠°	Rear	∠°	Rear
10				
12				
15	70.5	31,000		
20	65.5	31,000	69.5	25,000
25	59.5	31,000	64.5	25,000
30	53.5	22,800	60.0	23,400
35	47.0	17,400	55.0	17,900
40	39.5	13,500	49.5	14,100
45	30.5	10,500	43.5	11,100
50	16.5	8,200	36.5	8,800
55			28.0	7,000
60			15.0	5,500
Min.Bm. Ang./Cap.	0 (51.5)	7,600	0 (61.5)	5,100

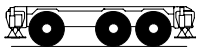
Load Radius (Ft)	80 Ft.		90 Ft.		100 Ft.	
	∠°	Rear	∠°	Rear	∠°	Rear
30	64.0	23,800	67.5	18,600	70.0	15,000
35	60.0	18,400	64.0	18,600	67.0	15,000
40	55.5	14,500	60.0	14,900	63.5	15,000
45	51.0	11,600	56.5	11,900	60.5	12,100
50	46.0	9,200	52.0	9,600	57.0	9,800
55	40.5	7,400	48.0	7,700	53.0	8,000
60	34.0	5,900	43.0	6,200	49.5	6,400
65	26.0	4,600	38.0	4,900	45.5	5,200
70	14.0	3,600	32.0	3,900	41.0	4,100
75			24.5	3,000	36.0	3,200
80			13.0	2,200	30.5	2,400
85					23.5	1,700
Min.Bm. Ang./Cap	0 (71.5)	3,300	0 (81.5)	2,000	15.5 (89.0)	

Load Radius (Ft)	110.0 Ft.		122.5 Ft.	
	∠°	Rear	∠°	Rear
35	69.5	12,300		
40	66.5	12,300	69.5	10,200
45	63.5	12,300	67.0	10,200
50	60.5	10,000	64.0	10,200
55	57.5	8,200	61.5	8,300
60	54.0	6,600	58.5	6,800
65	50.5	5,400	55.5	5,600
70	47.0	4,300	52.5	4,500
75	43.0	3,400	49.5	3,600
80	39.0	2,600	46.0	2,800
85	34.0	1,900	42.5	2,100
90	29.0	1300	39.0	1,500
Min.Bm. Ang./Cap.	28.0 (90.7)		36.5 (92.6)	

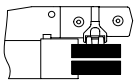
( ) Reference Radius For Minimum Boom Angle Capacities (Shown In Parenthesis) Are In Feet.

Rated Lifting Capacities In Pounds.
Pick & Carry – 2.5 mph

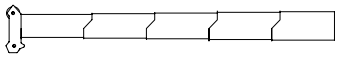
With Outrigger Boxes



On Tires–2.5 mph



24,000# Counterweight



Boom Mode "Std"

Load Radius (Ft)	40 Ft.		50 Ft.	
	∠°	Rear		Rear
10	67.5	88,300		
12	64.5	73,200	70.0	52,000
15	59.5	62,300	66.5	52,000
20	50.0	41,900	59.5	42,800
25	38.5	28,400	52.0	29,400
30	21.5	20,300	44.0	21,200
35			34.0	15,800
40			18.5	11,900
45				
50				
55				
60				
Min.Bm.	0	18,400	0	10,900
Ang./Cap.	(31.5)		(41.5)	

Load Radius (Ft)	60 Ft.		70 Ft.	
	∠°	Rear	∠°	Rear
10				
12				
15	70.5	29,900		
20	65.5	29,900	69.0	22,100
25	59.5	29,900	64.5	22,100
30	53.5	21,800	60.0	22,100
35	47.0	16,400	54.5	16,800
40	39.5	12,500	49.5	12,900
45	30.5	9,600	43.5	9,900
50	16.5	7,300	36.5	7,600
55			28.0	5,800
60			15.0	4,300
Min.Bm.	0	6,700	0	3,900
Ang./Cap.	(51.5)		(61.5)	

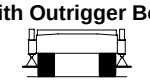
Load Radius (Ft)	80 Ft.		90 Ft.		100 Ft.	
	∠°	Rear	∠°	Rear	∠°	Rear
30	64.0	22,200	67.5	22,300	70.0	22,400
35	60.0	17,000	64.0	17,100	67.0	17,200
40	55.5	13,100	60.0	13,300	63.5	13,400
45	51.0	10,200	56.0	10,400	60.5	10,500
50	46.0	7,900	52.0	8,100	57.0	8,200
55	40.5	6,100	48.0	6,200	53.0	6,400
60	34.0	4,600	43.0	4,800	49.5	4,900
65	26.0	3,300	38.0	3,500	45.0	3,600
70	14.0	2,300	32.0	2,500	41.0	2,600
75			24.5	1,600	36.0	1,700
Min.Bm.	0	2,000	23.5		34.5	
Ang./Cap	(71.5)		(75.4)		(76.3)	

Load Radius (Ft)	110 Ft.		120 Ft.	
	∠°	Rear	∠°	Rear
35	69.5	17,200		
40	66.5	13,400	69.0	13,500
45	63.5	10,500	66.0	10,600
50	60.5	8,300	63.5	8,300
55	57.5	6,500	60.5	6,600
60	54.0	5,000	57.5	5,100
65	50.5	3,700	54.5	3,800
70	47.0	2,700	51.5	2,800
75	43.0	1,800	48.5	1,900
Min.Bm.	41.5		46.5	
Ang./Cap.	(76.8)		(77.3)	

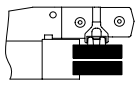
( ) Reference Radius For Minimum Boom Angle Capacities (Shown In Parenthesis) Are In Feet.

Rated Lifting Capacities In Pounds. On Tires – Stationary – 360°

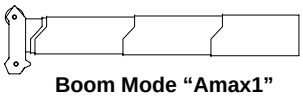
With Outrigger Boxes



On Tires–360°



24,000# Counterweight



Boom Mode "Amax1"

Load Radius (Ft)	40.Ft.		50 Ft.	
	∠°	360°	∠°	360°
25	38.5	19,700		
30	21.5	13,700	44.0	13,500
35			34.0	9,400
40			18.5	6,400
45				
50				
Min.Bm. Ang./Cap.	0 (31.5)	12,300	0 (41.5)	5,600

WARNING

Do Not Raise Boom Above 47° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

Load Radius (Ft)	60 Ft.		70 Ft.	
	∠°	360°	∠°	360°
25				
30				
35	47.0	9,200		
40	39.5	6,300		
45	30.5	4,000	43.5	3,900
50	16.5	2,200	36.5	2,100
Min.Bm. Ang./Cap.	0 (51.5)	1,700	32.5 (52.4)	

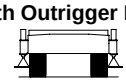
WARNING

Do Not Raise Boom Above 47° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

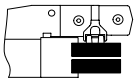
( ) Reference Radius For Minimum Boom Angle Capacities (Shown In Parenthesis) Are In Feet.

Rated Lifting Capacities In Pounds. On Tires – Stationary – 360°

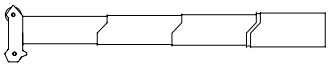
With Outrigger Boxes



On Tires–360°



24,000# Counterweight



Boom Mode "Amax2"

Load Radius (Ft)	40 Ft.		50 Ft.		60 Ft.	
	∠°	360°	∠°	360°	∠°	360°
25	38.5	19,700				
30	21.5	13,700	44.0	15,200		
35			34.0	11,100	47.0	12,000
40			18.5	8,100	39.5	9,000
45					30.5	6,700
50					16.5	4,900
Min.Bm. Ang./ Cap.	0 (31.5)	12,300	0 (41.5)	7,300	0 (51.5)	4,400

WARNING

Do Not Raise Boom Above 47° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

Load Radius (Ft)	70 Ft.		80 Ft.	
	∠°	360°	∠°	360°
40				
45	43.5	7,300		
50	36.5	5,400	46.0	5,900
55	28.0	4,000	40.5	4,400
60	15.0	2,800	34.0	3,200
65			26.0	2,200
70			14.0	1,400
Min.Bm. Ang./Cap.	0 (61.5)	2,500	0 (71.5)	1,100

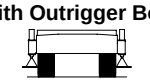
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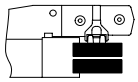
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Rated Lifting Capacities In Pounds. On Tires – Stationary – 360°

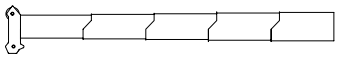
With Outrigger Boxes



On Tires–360°



24,000# Counterweight



Boom Mode "Std"

Load Radius (Ft)	40 Ft.		50 Ft.		60 Ft.	
	∠°	360°	∠°	360°	∠°	360°
25	38.5	19,700				
30	21.5	13,700	44.0	14,600		
35			34.0	10,500	47.0	11,000
40			18.5	7,500	39.5	8,100
45					30.5	5,800
50					16.5	4,000
Min.Bm. Ang./Cap	0 (31.5)	12,300	0 (41.5)	6,700	0 (51.5)	3,500

WARNING

Do Not Raise Boom Above 47° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

Load Radius (Ft)	70 Ft.		80 Ft.	
	∠°	360°	∠°	360°
45	43.5	6,100		
50	36.5	4,300	46.0	4,600
55	28.0	2,900	40.5	3,100
60	15.0	1,700	34.0	1,900
Min.Bm. Ang./Cap.	0 (61.5)	1,400	27.5 (64.1)	

WARNING

Do Not Raise Boom Above 47° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

( ) Reference Radius For Minimum Boom Angle Capacities (Shown In Parenthesis) Are In Feet.

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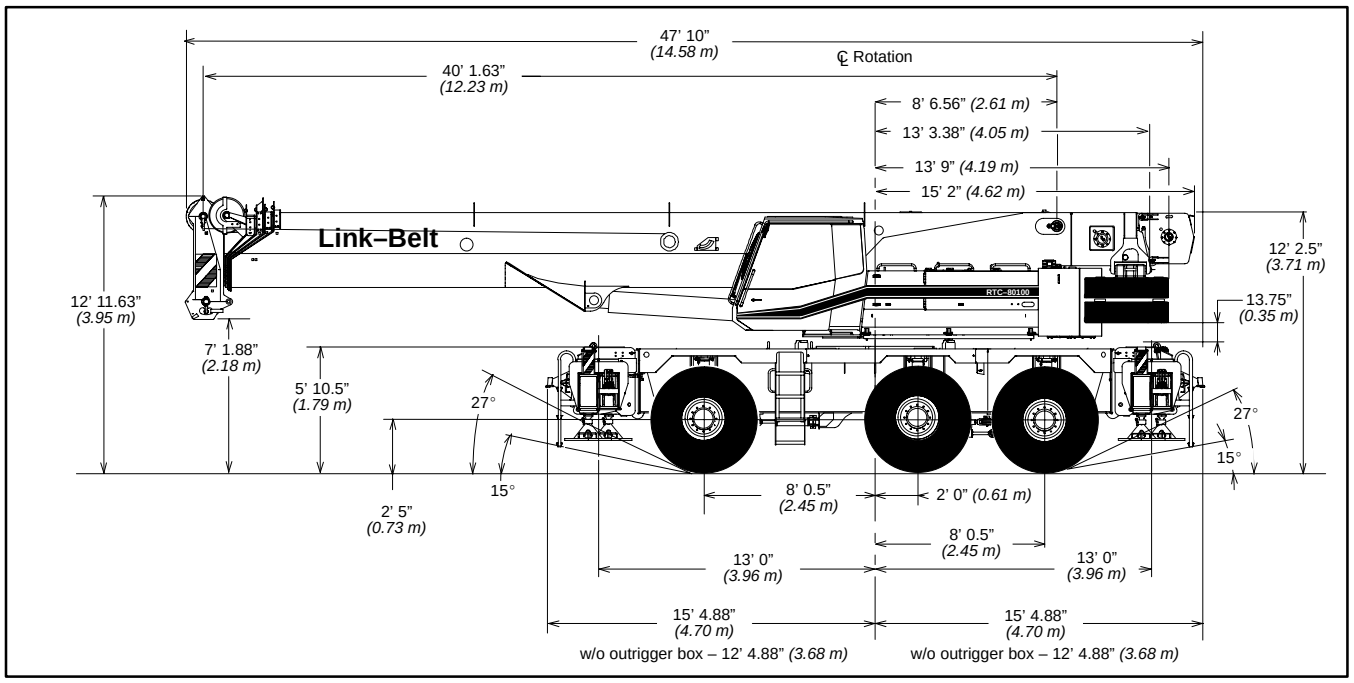
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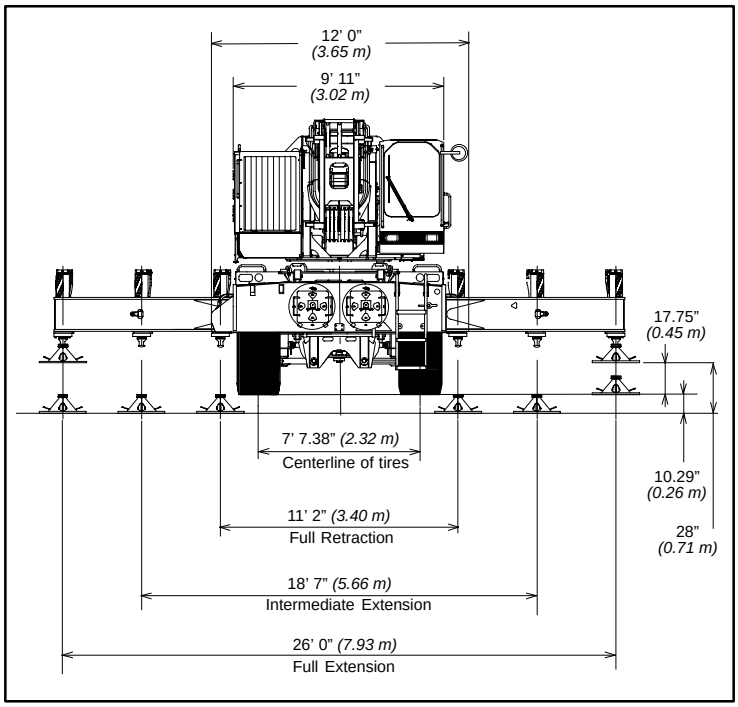
Specifications

Telescopic Boom Rough Terrain Crane

RTC–80100 **100–ton** *(90.72 metric ton)*

Series II





General Dimensions	feet	*metric*
Turning Radius (6–wheel steer –centerline of tires	20' 7"	*6.27*
Turning Radius (2–wheel steer –centerline of tires	35'	*10.67*
Turning Radius (6–wheel steer – outside front outrigger box	25' 6"	*7.77*
Turning Radius (2–wheel steer – outside front outrigger box	37' 0"	*11.28*
Tailswing of counterweight (w/o Aux. Winch)	13' 9"	*3.90*
Tailswing of Auxiliary Winch	15' 3"	*4.65*

Upper Structure

■ Boom

Formed Construction Design

- U–shaped boom utilizes formed plates to resist buckling using high strength 130,000 p.s.i. *(896 MPa)* steel. Increased wear pad area for improved load distribution and longer life.

Standard Boom

- 40' – 150' *(12.19 – 45.72 m)* five–section full power boom.
  - **Standard mode** is the full power, synchronized mode of telescoping all sections proportionally.
  - ***A–max*[1]** mode (or mode 'A1') extends only the inner and center sections to 95' *(29 m)* offering increased capacities for in–close, maximum capacity picks.
  - ***A–max*[2]** mode (or mode 'A2') tip, outer and center sections extend to 122.5' *(37.34 m)* offering maximum stability.
  - Mechanical Boom Angle Indicator

Boom Head

- Six, 16.38" *(0.42 m)* root diameter nylon sheaves handle up to twelve parts of wire rope.
- Quick–reeve design
- Rope dead end lugs provided on each side of boom head
- Easily removable wire rope guards
- Fly pinning alignment tool

Boom Elevation

- One Link–Belt designed hydraulic cylinder with holding valve and bushings in each end.
- Hand control for controlling boom elevation from –3° to 80°.

Optional Auxiliary Lifting Sheave

- Single 16.38" *(0.42 m)* root diameter nylon sheave with removable wire rope guard.
- Use with one or two parts of line.
- Does not affect erection of fly or use of main head sheaves for multiple reeving.

Optional

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

■ Fly

Optional

- 31' – 55' *(9.45 – 16.76 m)* two–piece (bifold) stowable, offsettable to 2°, 25° or 45°.
- Two, 15' *(4.57 m)* fly extensions provide a total fly length of 85' *(25.9 m).*

■ Cab and Controls

Environmental ULTRA CAB™

- LCF–2000 construction process featuring laminated fibrous composite material.
- Isolated from sound with acoustical vinyl insulation.
- Six–way adjustable operator's seat with retractable seat belt.
- Four–way adjustable tilting–telescoping and locking steering wheel.
- All windows are tinted and tempered safety glass.
- Slide by door opens to 3' *(0.91 m)* width.
- Sliding rear and right side windows and swing up roof window for maximum visibility and ventilation.
- Engine dependent warm–water heater with defroster.
- Audible swing alarm
- Backup alarm
- 12–volt accessory outlet
- Electric windshield wiper
- Top hatch window wiper
- Fire extinguisher
- Windshield washer
- Warning horn
- Travel lights
- Sun screen
- Mirrors
- Cup holder
- Circulating fan

Optional

- Amber strobe light
- Amber rotating beacon
- Air conditioning

Controls

Hydraulic controls (joystick type) for:

- Front winch
- Optional rear winch
- Drum rotation indicators
- Single–axis controls – optional
- Hand–held outrigger controls and sight level bubble also provided in upper cab.
- Boom hoist
- Swing

Foot controls for:

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

Cab Instrumentation

Corner–post mounted gauges with integral audio/visual warning system for:

- Tachometer
- Oil pressure
- Hydraulic oil temperature
- Water temperature
- Voltmeter
- Fuel

■ Rated Capacity Limiter

- **Microguard 434** Graphic audio–visual warning system built into the cornerpost with anti–two block and function limiters.
- Anti–two block weight designed for quick reeve of hookblock.

Operating data available includes:

- Machine configuration
- Boom length
- Head height
- % of allowed load
- Actual load
- Boom angle
- Radius of load
- Allowed load

Presettable alarms include:

- Maximum and minimum boom angles.
- Maximum tip height.
- Maximum boom length.
- Swing left/right positions.
- Operator defined area alarm is standard.

Optional

- **Internal RCL light bar:** Visually informs operator when crane is approaching maximum load capacity (kickouts and presettable alarms) with a series of green, yellow and red lights.
- **External RCL light bar:** Visually informs ground crew when crane is approaching maximum load capacity (kickouts and presettable alarms) with a series of three lights; green, yellow and red.

■ Swing

- Bi–directional hydraulic swing motor mounted to a planetary reducer for 360° continuous smooth swing at 1.5 r.p.m.
- **Swing park brake** – 360° electric over hydraulic (spring applied, hydraulic released) multi–disc brake mounted on the speed reducer. Operated by switch in lefthand controller.
- **Swing brake** – 360°, foot operated, hydraulic applied disc brake mounted on the speed reducer.
- **Swing lock** – Standard; two position travel lock operated from the operator's cab.
- **360° pawl–in–gear swing lock** – meets New York City requirements. – (optional)

■ Counterweight

- **Standard** – 24,000 lbs. *(10 886 kg)*. Capacities for 0 *(0 kg)* and 12,000 lbs *(5 443 kg)* also available.
- **Optional** – Hydraulic counterweight removal controlled with hand–held controller from the ground.

■ Hydraulic System

Main Pumps

- A Two–section gear pump, mounted to a mechanical pump drive, driven by the diesel engine supplies hydraulic power for the boom hoist, telescope, and charge circuits. Section one can deliver 47 gpm at 4,400 psi and section two can deliver 38 gpm at 4,400 psi.
- Two, closed–loop piston pumps are mounted to a mechanical pump drive, driven by the diesel engine and serve as travel pumps. These two pumps supply hydraulic power to the wheel motors and are capable of delivering 88 gpm at 6,090 psi each.
- 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. each pump is capable of delivering 49 gpm at 4,150 psi.
- A 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/ This pump can deliver 21 gpm at 3,000 psi.
- A single section gear pump mounted to the rear of the right side winch pump supplies hydraulic power to the swing and steering circuits. This pump can deliver 27 gpm at 3,000 psi.
- O–Ring Face Seal (ORFS) technology throughout with hydraulic oil cooler.

Reservoir

- 255 gal. *(965 L)* capacity. Diffuser for deaeration.

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

Control Valves:

- Five separate, pilot operated control valves allow simultaneous operation of all crane functions.

- All control valves are pressure compensated for improved metering.
- Adjustable fine metering control on winch, boom hoist and swing functions.

■ Load Hoist System

Standard

- 2M front winch with grooved lagging.
- Two–speed motor and automatic brake.
- Power up/down mode of operation.
- Controls for future addition of rear winch.
- Bi–directional, piston–type hydraulic motor, driven through a planetary reduction unit for positive operator control under all load conditions.
- Asynchronous parallel double crossover grooved drums minimize rope harmonic motion.
- Rotation resistant wire rope.

Line Pulls and Speeds

- Maximum line pull 21,022 lbs. *(9 535 kg)* and maximum line speed of 431 f.p.m. *(131.40 m/min)* on standard 15" *(0.38 m)* root diameter grooved drum.

Optional

- 2M rear winch with two–speed motor, automatic brake, grooved lagging and power up/down mode of operation.
- Hoist drum cable followers.
- Third wrap indicators.

Carrier

■ Type

- 9' 11" *(3.02 m)* wide, 156.75" *(4.19 m)* wheelbase.
- 6 x 6 x 6 – (6–wheel steer, 6–wheel drive) For rough terrain with limited turning area.

Frame

- 100,000 p.s.i. *(689.5 MPa)* steel, torsion resistant, single–box construction.
- Integral 100,000 p.s.i. *(689.5 MPa)* steel outrigger boxes.

Standard Carrier Equipment

- One front, one rear, and two mid–point carrier ladders
- Non–slip safety strips on carrier deck
- Full deck fenders
- Pontoon storage
- Full lighting package
- Front towing shackles
- Hook block tie back
- Carrier mounted mirrors

Optional

- Front and rear mounted pintle hook
- Hydraulic power pinning outrigger boxes

■ Engine

Engine	Detroit Diesel Series 40
Cylinders – cycle	6 – 4
Bore	4.59 in. *(116.59 mm)*
Stroke	5.35 in. *(135.89 mm)*
Displacement	530 cu. in. *(8.69 L)*
Maximum brake hp	300 @ 2,000 rpm
Peak torque (ft. lb.)	1,050 @ 1,300 rpm
Electric system	12 volt
Starting system	12 volt
Fuel capacity	95 gallons *(360 L)*
Alternator	130 amps
Crankcase capacity (total system)	28 qts. *(26.5 L)*
• Water/fuel separator on engine • 110–volt block heater • Optional – Ether injection package	

■ Transmission

- 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.

■ Axles

- Six, heavy–duty Link–Belt fabricated axle housings that support the wheel drive motors and connect to the steering and suspension system.

■ Suspension

- Fully independent double "A" Arm construction with automatic axle oscillation

■ Steering

- Hydraulic front–wheel, rear–wheel, coordinated six–wheel and six–wheel "crab" steering
- Modes selected by rotary switch on overhead console.
- All modes are fully coordinated and controlled by steering wheel.

Optional

- Rear steer indicator

■ Tires

Front and Rear

- Standard 23.5R25 2–Star radials.

Optional

- Spare tires and rims

■ Brakes

Service

- Two, fully hydraulic caliper disc–type brakes at each wheel end with independent front and rear system. Controlled by foot pedal in cab.

Parking/Emergency

- Spring applied, hydraulic released, cab controlled, wet, multiple disc–type integral to the front wheel drive motors.

■ Outriggers

- Three position operation capability.
- Four hydraulic, telescoping beam and jack outriggers.
- Vertical jack cylinders equipped with integral holding valve.
- Beams extend to 26' *(7.93 m)* centerline–to–centerline and retract to a 12' *(3.6 m)* width.
- Equipped with stowable, lightweight 26" *(0.66 m)* round steel pontoons.
- Hand–held controls and sight level bubble located in upper structure cab.

Confined Area Lifting Capacities (CALC™) System

- Three operational outrigger configurations are available:
  - Full extension – 26' *(7.93 m)*
  - Intermediate position – 18' 7" *(5.66 m)*
  - Full retraction – 11' 2" *(3.22 m)*
- For confined area operation, rated lifting capacities are provided for the intermediate and fully retracted outrigger positions.
- When the outrigger position levers (located on the outrigger beams) are engaged, the operator can set the crane in the intermediate or full retraction outrigger position without leaving the cab.

■ Travel Speeds and Gradability

With outrigger boxes and counterweight	
Tires	23.5R25 2–Star radials
Maximum Speed	18.5 *(29.77 km/h)*
Gradability at 1.0 mph *(1.6 km/hr)*	50.4%
Maximum Tractive Effort at 1.0 mph. *(1.6 km/hr)*	61,180 lbs. *(27 751 kg)*

Without outrigger boxes and counterweight	
Tires	23.5R25 2–Star radials
Maximum Speed	18.5 *(29.77 km/h)*
Gradability at 1.0 mph *(1.6 km/hr)*	88%
Maximum Tractive Effort at 1.0 mph. *(1.6 km/hr)*	61,180 lbs. *(27 751 kg)*

■ Travel Load

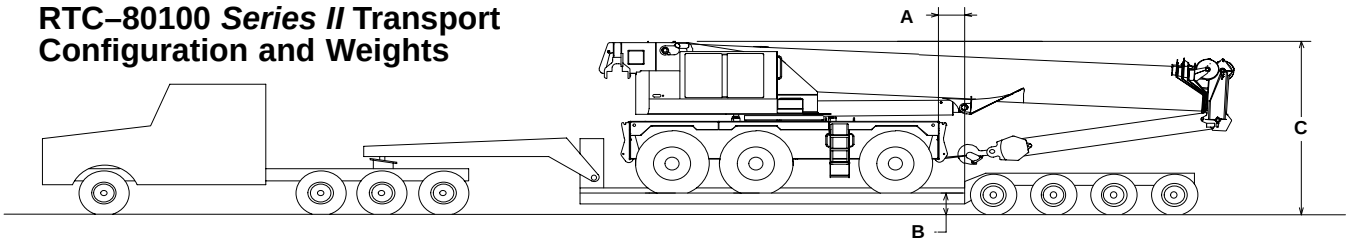
Tire	Max. Axle Load @ 20 mph *(32.20 km/hr)*
23.5R25 2–Star	57,330 lbs. *(26 005 kg)*

■ Axle Loads

Base machine with standard 40 – 150' *(12.19 – 45.72 m)* five–section boom, 2M main winch with 2–speed hoisting and power up/down, 850' *(259 m)* of 7/8" *(22 mm)* wire rope. 6x6x6 carrier with Detroit Diesel Series 40 engine, 23.5R25 tires, 95 gals. *(360 L)* of fuel, tow shackles, hook block tieback and 24,000 lbs. *(10 886 kg)* of counterweight.	G.V.W.[1]		Upper facing front				Upper facing rear			
			Front axle		Rear axle group		Front axle		Rear axle group	
	lbs.	*kg.*	lbs.	*kg.*	lbs.	*kg.*	lbs.	*kg.*	lbs.	*kg.*
	123,666	*56 094*	38,355	*17 398*	85,311	*38 696*	55,045	*24 968*	68,621	*31 126*
Remove outrigger boxes and beams	–15,960	*–7 239*	–6,035	*–2 737*	–9,925	*–4 502*	–6,035	*–2 737*	–9,925	*–4 502*
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' *(152 m)* of 7/8" *(22 mm)* wire rope on auxiliary winch	862	*391*	–579	*–263*	1,441	*518*	1,242	*563*	–380	*–172*
Air conditioning in operator's cab	120	*54*	48	*22*	72	*33*	44	*20*	76	*34*
360 degree swing lock	139	*63*	35	*16*	104	*47*	71	*32*	68	*31*
Fly brackets to boom base sections for fly options	277	*126*	372	*169*	–95	*–43*	–159	*–72*	436	*198*
31' – 55' *(9.45 – 16.76 m)* 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 *(90.72 mt)* capacity hook block to front/rear bumper	1,750	*794*	2,537	*1 151*	–787	*–357*	–1,192	*–541*	2,942	*1 334*
80–ton *(72.57 mt)* capacity hook block to front/rear bumper	1,411	*640*	2,046	*928*	–635	*–288*	–961	*–436*	2,372	*1 076*
50–ton *(45.36 mt)* capacity hook block to front/rear bumper	1,200	*544*	1,740	*789*	–540	*–244*	–817	*–370*	2,017	*915*
12–ton *(10.9 mt)* capacity 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*

[1] – Adjust gross weight and axle loading according to component weight. Note: All weights are ± 3%.

RTC–80100 *Series II* Transport Configuration and Weights



Total Weight: 88,257 lbs. *(40 033 kg)*, equipped with:
- 40' – 150', Five–Section Boom
- 80–ton Hookblock
- One winch with 850' of 7/8" rope
- 31' – 55' Bi–fold fly
- Ether injection system
- Hot water cab heater
- Air Conditioning
- Tow Shackles
- Pintle Hooks

Drop Off Load Weight: 41,642 lbs. *(18 889 kg)*
- Two outrigger boxes
- 24,000 lbs *(10 886 kg)* Counterweight
- Two, 15' *(4.57 m)* Fly Sections

Axle Group Weights

Truck Wt.	Bed Length	Steer	Drivers	Trailer	A
45,200 lbs. *(20 502 kg)*	24' *(7.32 m)*	10,055 lbs. *(4 561 kg)*	57,606 lbs. *(26 129 kg)*	65,734 lbs. *(29 816 kg)*	10.5" *(0.27 m)*
54,200 lbs. *(24 585 kg)*	34' *(10.36 m)*	10,090 lbs. *(4 577 kg)*	58,864 lbs. *(26 700 kg)*	73,503 lbs. *(33 340 kg)*	50.5" *(1.28 m)*

B – 18" *(0.46 m)* or 24" *(0.61 m)*

	Normal Suspension	Collapsed Suspension
C (with 18" Trailer)	13' 8" *(4.17 m)*	13' 5" *(4.09 m)*
C (with 24" Trailer)	14' 2" *(4.32 m)*	13' 11" *(4.24 m)*

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Technical Data

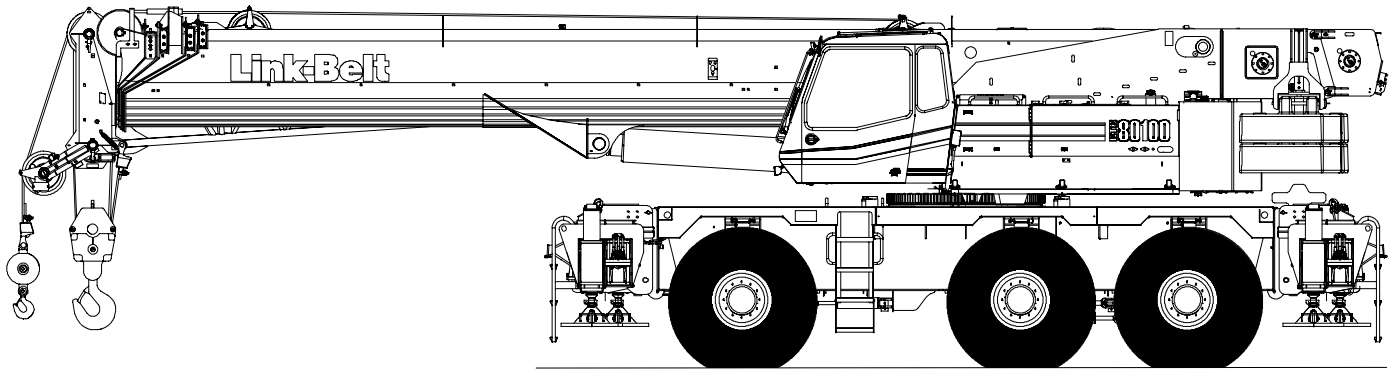
Specifications & Capacities

RTC 80100

Series II

Telescopic Boom Rough Terrain Crane

100 ton *(90.72 metric ton)*



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.

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10 885kg Counterweight – Fully Extended Outriggers – 360˚ Rotation 21
45.72m Main Boom Length – 2˚ Fly Offset 21
45.72m Main Boom Length – 25˚ Fly Offset 22
45.72m Main Boom Length – 45˚ Fly Offset 23

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–max[1]*** 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–max[2]*** 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–max[2]* is 132 ft 6 in (*40.3m*)
  - *A–max[1]* 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 (*69.6m*).

■ 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
- 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

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–optional
- 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

■ Load Hoist System

Load Hoist Performance

Front and Rear Winches – 7/8 in (*22mm*) Rope										
	Maximum Line Pull		Normal Line Speed		High Line Speed		Layer		Total	
Layer	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*)

- Water/fuel separator on engine
- 110–volt block heater
- Ether injection – optional

■ 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.

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 in^2 (*3 477* cm^2) 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) 23.5 x 25–2 star radials, 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.

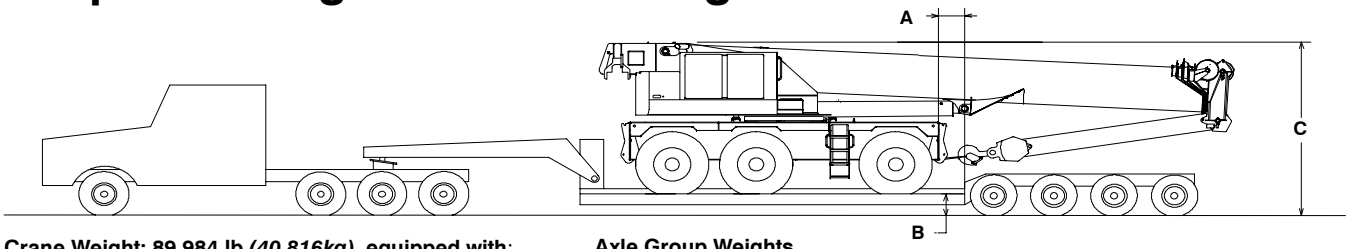
Axle Loads

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

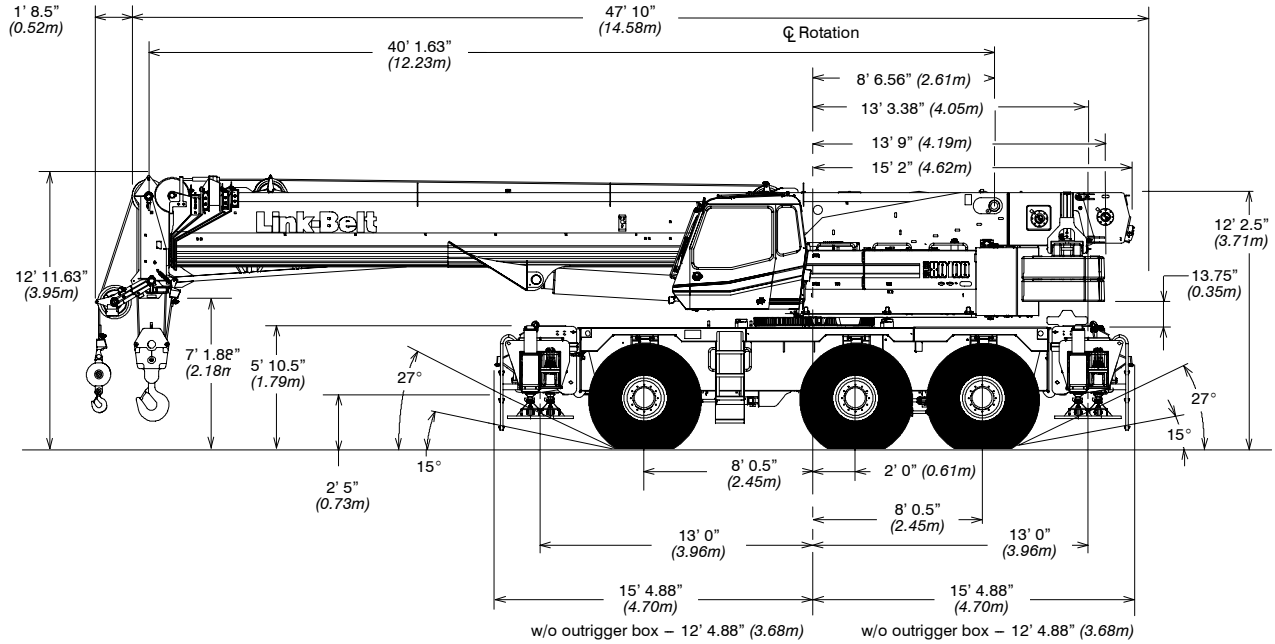
Axle Group Weights

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*)

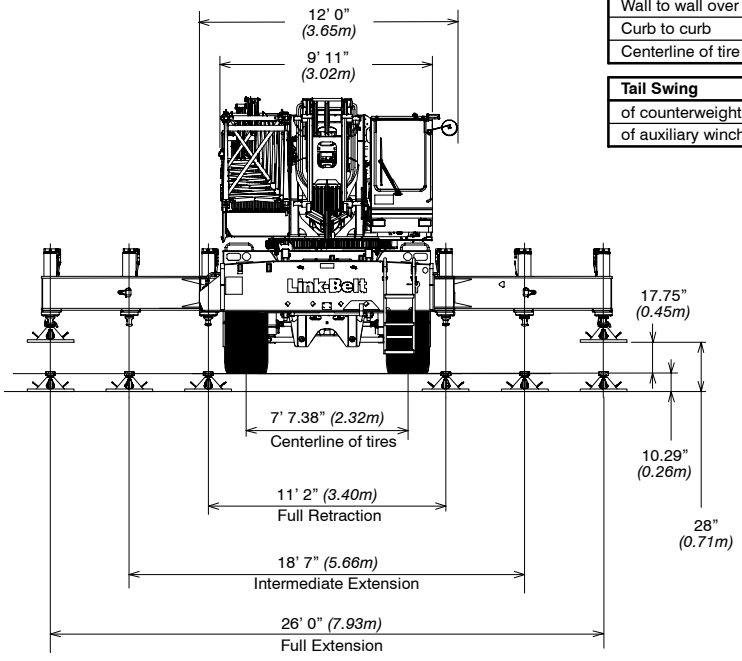
General Dimensions



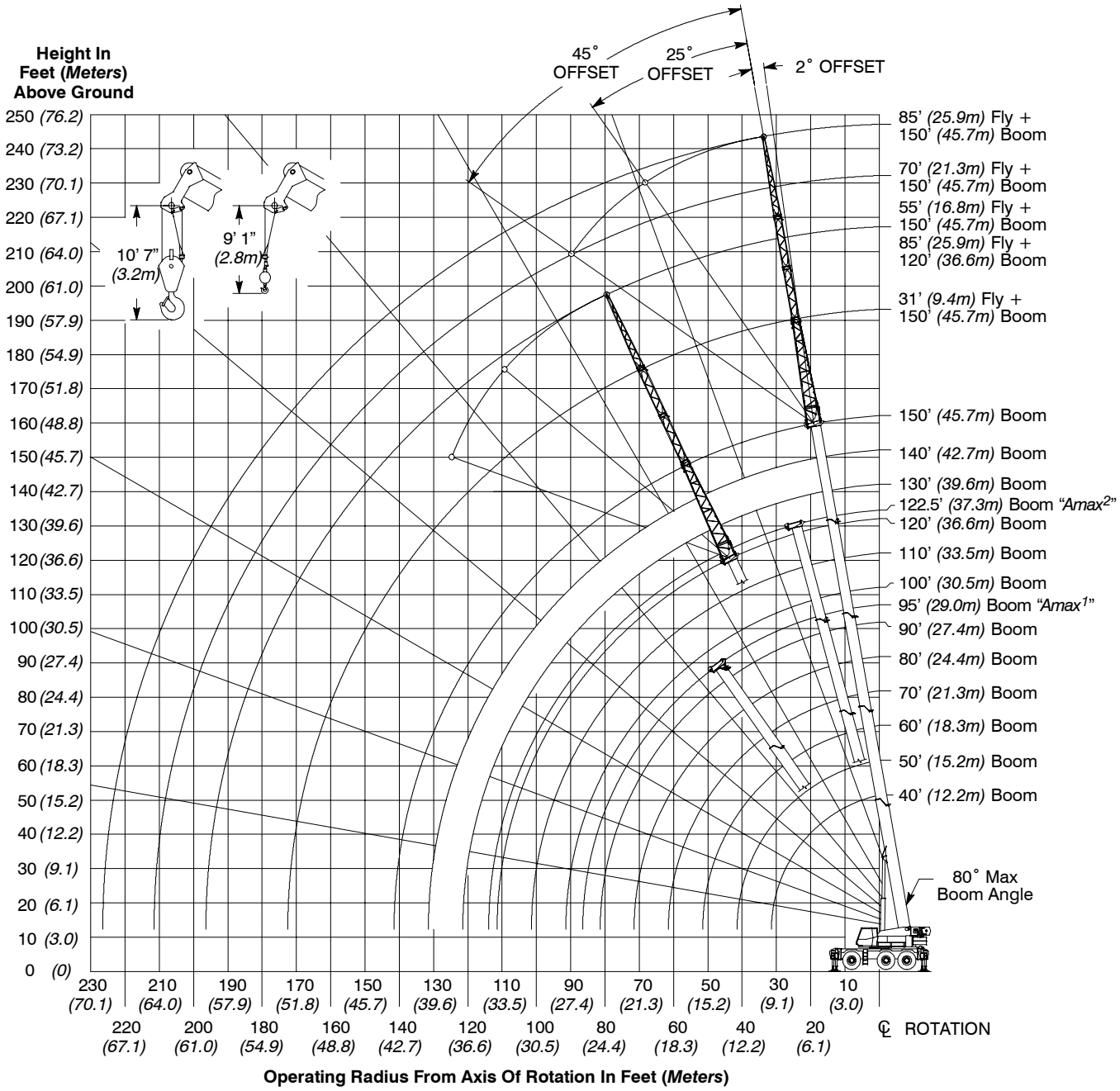
Turning Radius – 2 Wheel Steering	English	*Metric*
Wall to wall over carrier	44' 11"	*13.69m*
Wall to wall over boom attachment	55' 1"	*16.79m*
Curb to curb	41' 9"	*12.73m*
Centerline of tire	40' 5"	*12.32m*

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*



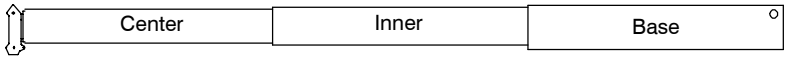
Working Range Diagram



Boom Extend Modes

Boom Mode "Amax[1]"

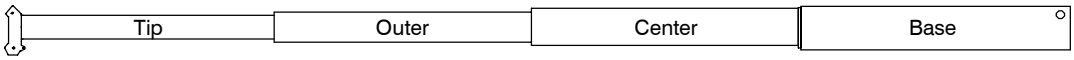
Inner and center sections telescope simultaneously



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 "Amax[2]"

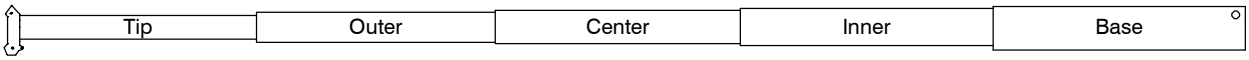
Center, outer, and tip sections telescope simultaneously



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*)

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

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.

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 – max[1] Mode
*** 122.5 ft A – max[2] Mode

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.

24,000 lb Counterweight – On Tires – Stationary – Boom Centered Over Rear Between Tire Tracks
(All Capacities Are Listed In Pounds)

Radius (ft)	Boom Length (ft)									Radius (ft)
	40	50	60	70	80	90	100	110	122.5	
10	92,000									10
12	73,200	61,800								12
15	62,300	61,800	40,300							15
20	49,500	50,700	40,300	35,000						20
25	37,600	39,400	40,300	35,000						25
30	27,100	28,800	29,800	30,300	30,700	24,100	19,400			30
35		21,800	22,800	23,400	23,800	24,100	19,400	16,100		35
40		17,000	17,900	18,500	19,000	19,200	19,400	16,100	13,500	40
45			14,300	14,900	15,400	15,700	15,900	16,100	13,500	45
50			11,500	12,100	12,600	12,900	13,200	13,300	13,500	50
55				9,900	10,300	10,700	10,900	11,100	11,200	55
60				8,100	8,500	8,800	9,100	9,300	9,500	60
65					7,000	7,300	7,600	7,800	8,000	65
70					5,700	6,100	6,300	6,500	6,700	70
75						5,000	5,200	5,400	5,600	75
80						4,000	4,300	4,400	4,600	80
85							3,400	3,600	3,800	85
90							2,700	2,900	3,100	90
95								2,300	2,400	95
100								1,700	1,900	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.

24,000 lb Counterweight -- On Tires -- Pick & Carry (Creep) -- Boom Centered Over Rear
(All Capacities Are Listed In Pounds)

Radius (ft)	Boom Length (ft)									Radius (ft)
	40	50	60	70	80	90	100	110	122.5	
10	90,600									10
12	73,200	52,000								12
15	62,300	52,000	32,600							15
20	44,200	45,900	32,600	26,500						20
25	30,000	31,600	32,600	26,500						25
30	21,400	23,000	24,000	24,600	25,000	19,500	15,800			30
35		17,400	18,200	18,900	19,300	19,500	15,800	12,900		35
40		13,300	14,200	14,900	15,300	15,600	15,800	12,900	10,700	40
45			11,200	11,800	12,200	12,600	12,800	12,900	10,700	45
50			8,800	9,400	9,800	10,200	10,400	10,600	10,700	50
55				7,500	7,900	8,200	8,500	8,700	8,800	55
60				5,900	6,300	6,700	6,900	7,100	7,300	60
65					5,100	5,400	5,600	5,800	6,000	65
70					4,000	4,300	4,500	4,700	4,900	70
75						3,300	3,600	3,700	3,900	75
80						2,500	2,700	2,900	3,100	80
85							2,000	2,200	2,400	85
90								1,600	1,800	90

24,000 lb Counterweight -- On Tires -- Stationary -- 360° Rotation
(All Capacities Are Listed In Pounds)

Radius (ft)	Boom Length (ft)					Radius (ft)
	40	50	60	70	80	
25	19,700					25
30	13,700	15,200				30
35		11,100	12,000			35
40		8,100	9,000			40
45			6,700	7,300		45
50			4,900	5,400	5,900	50
55				4,000	4,400	55
60				2,800	3,200	60
65					2,200	65
70					1,400	70

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.

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

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.

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

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.

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

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.

Main Boom Lift Capacity Charts – Optional (Metric)

10 885kg Counterweight -- Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Kilograms)

Radius (m)	Boom Length (m)						Radius (m)
	12.19	15.2	18.3	21.3	24.4	27.4	
3	90 700	47 200	46 450	46 000			3
3.5	85 000	47 200	46 450	46 000			3.5
4	78 350	47 200	46 450	46 000	43 250		4
4.5	72 550	47 200	46 450	46 000	40 550	37 100	4.5
5	67 550	47 200	46 450	46 000	38 150	35 950	5
6	56 400	47 200	46 450	43 550	33 950	32 050	6
7	47 450	47 200	46 450	39 100	30 550	28 850	7
8	40 650	40 450	40 250	35 350	27 650	26 100	8
9	34 650	34 250	33 900	32 250	25 250	24 700	9
10		27 750	27 450	27 200	24 100	23 950	10
12		20 550	21 000	21 250	21 450	20 850	12
14			15 950	16 200	16 350	16 500	14
16				12 850	13 050	13 150	16
18				10 400	10 600	10 750	18
20					8 800	8 900	20
22						7 550	22
24						6 400	24

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 or on tires do not exceed 75% of the tipping loads.

10 885kg Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Kilograms)

Radius (m)	Boom Length (m)						Radius (m)
	28.96/30.5	33.5	36.6/37.34	39.6	42.7	45.72	
6	28 000**	25 050					6
7	27 650**	23 450					7
8	25 050**	21 550	24 100				8
9	22 850**	19 950	21 450	21 150	14 500	13 600	9
10	20 900**	18 500	19 750	19 450	14 500	13 600	10
12	17 700**	16 100	17 000	16 750	14 500	13 600	12
14	15 500	14 200	14 800	14 600	14 000	13 500	14
16	13 250	12 650	12 400	12 450	12 300	11 850	16
18	10 800	10 900	10 000	10 050	10 050	10 050	18
20	9 000	9 050	9 150***	8 250	8 250	8 250	20
22	7 650	7 700	7 800***	6 900	6 950	6 950	22
24	6 500	6 600	6 650***	5 800	5 800	5 800	24
26	5 550	5 650	5 700***	4 900	4 900	4 900	26
28		4 850	4 950***	4 100	4 150	4 150	28
30		4 200	4 300***	3 500	3 500	3 500	30
32			3 700***	2 950	2 950	2 950	32
34			3 250***	2 450	2 450	2 450	34
36				2 000	2 050	2 050	36
38					1 650	1 700	38
40					1 350	1 350	40
42						1 050	42

** 28.96m A – max[1] Mode
*** 37.34m A – max[2] Mode

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 or on tires do not exceed 75% of the tipping loads.

10 885kg Counterweight -- On Tires -- Stationary -- Boom Centered Over Rear Between Tire Tracks
(All Capacities Are Listed In Kilograms)

Radius (m)	Boom Length (m)									Radius (m)
	12.19	15.2	18.3	21.3	24.4	27.4	30.5	33.5	37.34	
3	41 700									3
3.5	34 200	28 050								3.5
4	31 200	28 050								4
4.5	28 600	28 050	18 200							4.5
5	26 350	26 150	18 200							5
6	22 600	23 250	18 200	15 850						6
7	17 200	17 900	18 200	15 850						7
8	13 550	14 250	14 600	14 850						8
9	10 950	11 600	12 000	12 200	12 350	10 500	7 800			9
10		9 650	10 000	10 250	10 400	10 500	7 800	6 100		10
12		6 850	7 250	7 500	7 700	7 800	7 800	6 100	6 150	12
14			5 400	5 650	5 800	5 950	6 000	6 100	6 150	14
16				4 300	4 450	4 600	4 700	4 750	4 800	16
18				3 300	3 450	3 600	3 700	3 750	3 800	18
20					2 700	2 800	2 900	2 950	3 050	20
22						2 150	2 250	2 350	2 400	22
24						1 650	1 750	1 800	1 900	24
26							1 350	1 400	1 450	26
28								1 050	1 100	28
30								750	800	30

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 or on tires do not exceed 75% of the tipping loads.

10 885kg Counterweight – On Tires – Pick & Carry (Creep) – Boom Centered Over Rear
(All Capacities Are Listed In Kilograms)

Radius (m)	Boom Length (m)									Radius (m)
	12.19	15.2	18.3	21.3	24.4	27.4	30.5	33.5	37.34	
3	41 550									3
3.5	34 200	28 050								3.5
4	31 200	28 050								4
4.5	28 600	28 050	14 700							4.5
5	24 450	24 100	14 700							5
6	17 850	18 500	14 700	15 850						6
7	13 650	14 350	14 700	14 900						7
8	10 800	11 400	11 800	12 000						8
9	8 700	9 300	9 650	9 900	10 050	8 550	6 400			9
10		7 700	8 050	8 300	8 450	8 550	6 400	4 900		10
12		5 400	5 750	6 000	6 200	6 300	6 400	4 900	4 950	12
14			4 200	4 450	4 600	4 750	4 800	4 900	4 950	14
16				3 300	3 450	3 600	3 700	3 750	3 800	16
18				2 400	2 600	2 700	2 800	2 900	2 950	18
20					1 900	2 050	2 150	2 200	2 300	20
22						1 500	1 600	1 650	1 750	22
24						1 050	1 150	1 200	1 300	24
26							750	850	900	26
28									600	28

10 885kg Counterweight – On Tires – Stationary – 360° Rotation
(All Capacities Are Listed In Kilograms)

Radius (m)	Boom Length (m)					Radius (m)
	12.19	15.2	18.3	21.3	24.4	
7	9 050					7
8	7 050					8
9	5 600	6 150				9
10		5 000				10
12		3 300	3 650			12
14			2 450	2 700		14
16				1 850	2 000	16
18				1 150	1 350	18
20					800	20

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 or on tires do not exceed 75% of the tipping loads.

Fly Attachment Lift Capacity Charts – Optional (Metric)

10 885kg Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Kilograms)

45.72m Main Boom Length – 2° Fly Offset

Radius (m)	Fly Length (m)				Radius (m)
	9.45	16.76	21.34	25.91	
12	6 800				12
14	6 800	4 550	4 200		14
16	6 800	4 550	4 050	3 000	16
18	6 800	4 550	3 950	2 850	18
20	6 800	4 550	3 800	2 700	20
22	6 800	4 400	3 650	2 550	22
24	6 100	4 300	3 500	2 450	24
26	5 200	4 200	3 350	2 300	26
28	4 400	4 100	3 200	2 150	28
30	3 750	4 000	3 050	2 050	30
32	3 200	3 500	2 950	1 950	32
34	2 700	3 050	2 800	1 850	34
36	2 300	2 600	2 650	1 750	36
38	1 900	2 200	2 300	1 650	38
40	1 600	1 900	1 950	1 600	40
42	1 300	1 550	1 650	1 500	42
44	1 000	1 300	1 350	1 400	44
46	800	1 050	1 100	1 150	46
48	550	850	900	900	48
50		650	700	700	50
52				550	52
54				350	54
56				200	56
58				50	58

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 or on tires do not exceed 75% of the tipping loads.

10 885kg Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Kilograms)

45.72m Main Boom Length – 25° Fly Offset

Radius (m)	Fly Length (m)				Radius (m)
	9.45	16.76	21.34	25.91	
16	6 600				16
18	6 450				18
20	6 350	3 700			20
22	6 200	3 650			22
24	6 100	3 550	2 500		24
26	5 700	3 500	2 450		26
28	4 850	3 400	2 350	1 450	28
30	4 150	3 300	2 250	1 400	30
32	3 550	3 200	2 200	1 350	32
34	3 050	3 100	2 150	1 300	34
36	2 550	3 050	2 100	1 250	36
38	2 150	2 700	2 000	1 200	38
40	1 800	2 300	1 950	1 150	40
42	1 500	1 950	1 950	1 150	42
44	1 200	1 650	1 850	1 100	44
46	900	1 350	1 550	1 050	46
48	650	1 100	1 250	1 050	48
50		850	1 050	1 000	50
52		650	800	950	52
54		450	600	700	54
56				500	56
58				350	58
60				150	60

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 or on tires do not exceed 75% of the tipping loads.

10 885kg Counterweight – Fully Extended Outriggers – 360° Rotation (All Capacities Are Listed In Kilograms)					
45.72m Main Boom Length – 45° Fly Offset					
Radius (m)	Fly Length (m)				Radius (m)
	9.45	16.76	21.34	25.91	
18	5 750				18
20	5 700				20
22	5 600				22
24	5 550	3 000			24
26	5 500	2 950			26
28	5 150	2 850			28
30	4 400	2 800	1 900		30
32	3 750	2 750	1 850		32
34	3 200	2 750	1 850	1 050	34
36	2 700	2 700	1 800	1 000	36
38	2 300	2 700	1 800	1 000	38
40	1 900	2 550	1 750	1 000	40
42	1 550	2 150	1 750	950	42
44		1 850	1 750	950	44
46		1 500	1 750	950	46
48		1 200	1 500	950	48
50		950	1 200	950	50
52			950	950	52
54			700	900	54
56				650	56
58				450	58
60				200	60

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 or on tires do not exceed 75% of the tipping loads.

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