GUAY

RTC 80130
SERIES II

Rough Terrain Crane
130-ton *(120.0 mt)*

- 41.4' ft to 162' ft *(12.6 - 49.3 m)* five-section formed full power latching boom with no charted capacity deductions for telescoping loads
- Five boom extend modes provided superior capacities: EM1-EM5
- Optional 31 ft to 55 ft *(9.4 - 16.7 m)* two-piece, bi-fold, on-board lattice attachment with 2°, 15° 30°, and 45° manual offsets
- Optional 10 - 31 - 55 ft *(3.0 - 9.4 - 16.7 m)* three-piece, bi-fold, on-board lattice attachment with 2°, 15° 30°, and 45° manual offsets, and 2° through 45° hydraulic offsets
- Optional three 18 ft *(5.5 m)* fly extensions plus 55 ft *(16.7 m)* provide a total attachment length of 109 ft *(33.2 m)*
- 278 ft *(84.7 m)* maximun tip height
- No deducts for stowed attachments
- 21,022 lbs *(9 535.4 kg)* maximum winch line pull
- 431 fpm *(131.4 m/min)* maximum winch line speed
- Electronic joystick controllers
- 6x2 and 6x6 drive with 23.5R25 tires
- Four steering modes: independent front, combination, crab, and independent rear
- Hydrostatic drive
- Fully independent double "A" arm hydraulic suspension



Link-Belt
CRANES

RTC 8130 SERIES II

Rough Terrain Crane
130-ton *(120.0 mt)*

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

- **Revolutionary hydrostatic drive on a six-wheeled carrier for the ultimate in job site mobility**
- **Unprecedented transportability**
- **Maneuverability redefined**
- **Over 45 tons *(40.8 mt)* of on-tire capacity**

Link-Belt CRANES



The reach of the optional 55' *(16.8 m)* two or three-piece offsettable, bi-folding fly can be extended by adding three optional 18' *(5.5 m)* inserts



CALC–Outrigger beams extend to three different positions (retracted, intermediate, and fully extended) providing lifting capacities in confined areas

Mechanical boom angle indicator-standard

Optional integrated air conditioning

Folding viewing mirror for travel

Complete lighting package

Flat deck design and non-slip surface strips on deck

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

Stowable pontoons

Repositionable ladders on front and back

Independent front



Independent rear



Coordinated six wheel drive







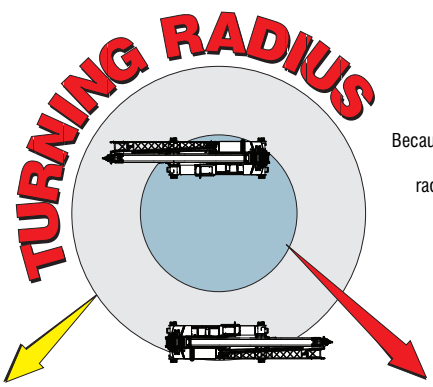
Revolutionary hydrostatic drive on a 6-wheel carrier

Not only is this crane 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. The smaller tires give it an overall height that is ideal for hauling, 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-80130 Series II.

On the job, the RTC-80130 Series II has outstanding on-tire capacity coupled with its long reach, maneuverability, incredible gradeability and low height make it truly an ideal solution for industrial sites.

Six wheel "crab"





Because of the innovative 6x6x6 hydrostatic drive/steer on each wheel, the turning radius of the 28' 10" *(9.1 m)* long carrier is a remarkable 21' 10" *(6.6 m)*.

2 wheel steer
<42′ *(12.8 m)*

6 wheel steer
<22′ *(6.7 m)*



Powerful hydraulics

- **Removable auxiliary (rear) winch** has hydraulic quick disconnects
- For greater productivity and control, multiple pump hydraulic circuit allows **simultaneous function**
- Piston winch motor provides **smooth and precise hoisting**
- Main and available auxiliary winch are equally matched in size and performance
- Provisions for the future installation of the auxiliary winch are standard





Operator cab features

- **Extra large windows** throughout for excellent visibility
- **Excellent ventilation** via a large sliding door, side and rear windows, and hinged roof window
- **6-way adjustable power tilting seat**
- Single or dual axis, **electronic operated controller** mounted on armrest for outstanding operator comfort
- All gauges, switches, indicators, and controls are located in the operator's forward line of sight
- All gauges and switches are backlit for excellent visibility in low light conditions
- **Integral rated capacity limiter** aids operator in safe and efficient operation
- In cab comfort is maintained by the **standard heater**
- Available - Internal and external rated capacity limiter light bars
- Available - Integrated air conditioning utilizes the same ventillation outlets as the standard heating system
- Available - cab mounted warning lights

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↑ Swing-out doors provide exceptional access to engine components.



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



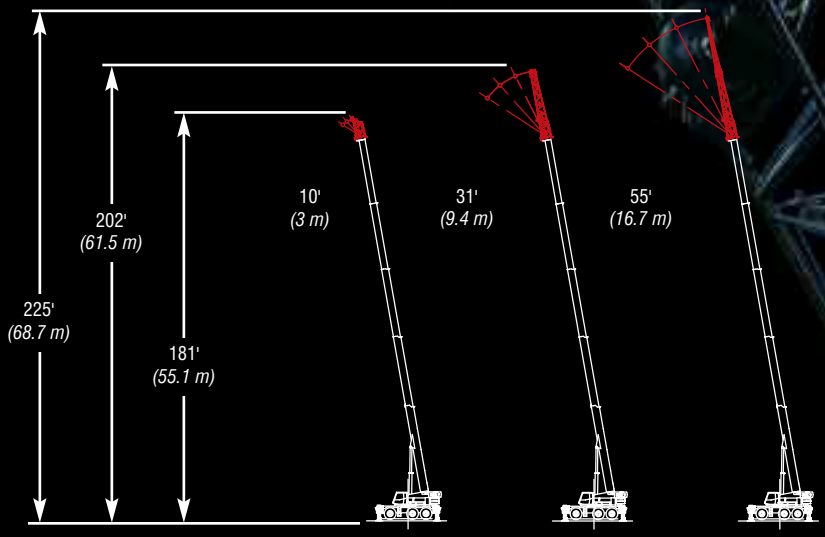
Full power boom with attachment flexibility

- Quick reeve boom head eliminates the need to remove the becket when it becomes necessary to change the reeving
- Five extend modes for superior capacities throughout the extension range
- Available two or three-piece bi-folding lattice fly which allow the tip section to be stored, thus enhancing the lifting performance when using the base section
- Boom requires no greasing because of ingenious Teflon wear pucks impregnated in the full contact wear pads
- Two available offset fly options: manual offset with 2°, 15°, 30°, and 45°, and a hydraulic offset with 2° - 45° with no capacity deduction for luffing loads
- No deducts for stowed attachments

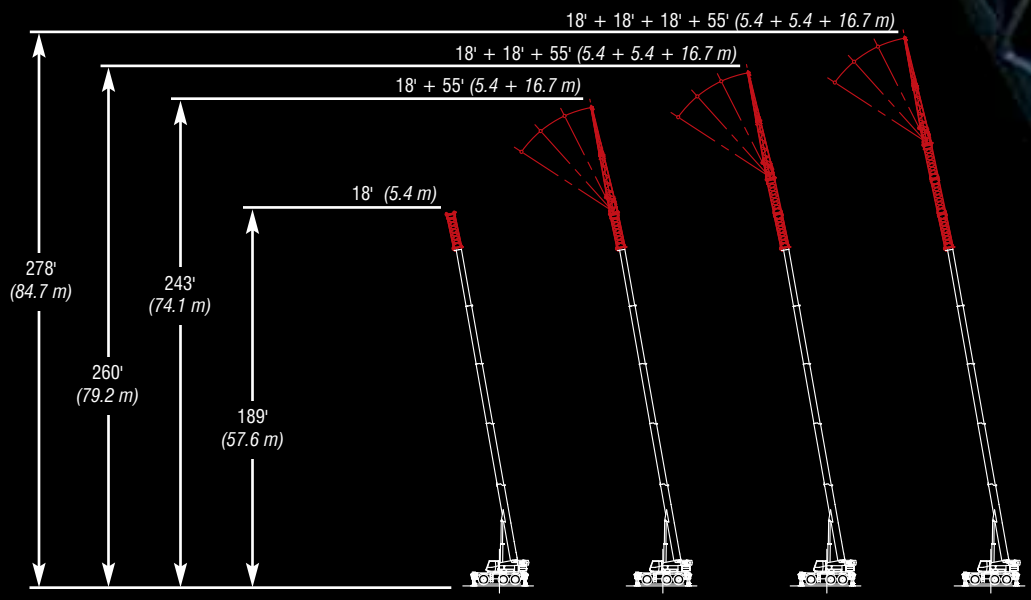


Innovative 10 ft *(3.0m)* fly is integral to one of the on-board fly options. Over 25 tons *(22.6 mt)* capacity and one-load two-line lift procedures.

Optional Lattice Fly Onboard



Optional Lattice Fly Extension



cut here

Breakthrough transportability

- Unlike any other rough terrain crane in this class, **in less than an hour and without a helper crane**, the RTC-80130 Series II 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' *(3.05 m)* wide and features a low overall height, the RTC-80130 Series II transports easier than the competition.









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

Lexington, Kentucky

Link-Belt CRANES

www.linkbelt.com

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Litho in U.S.A. 10/09 #4367

Technical Data

Specifications & Capacities

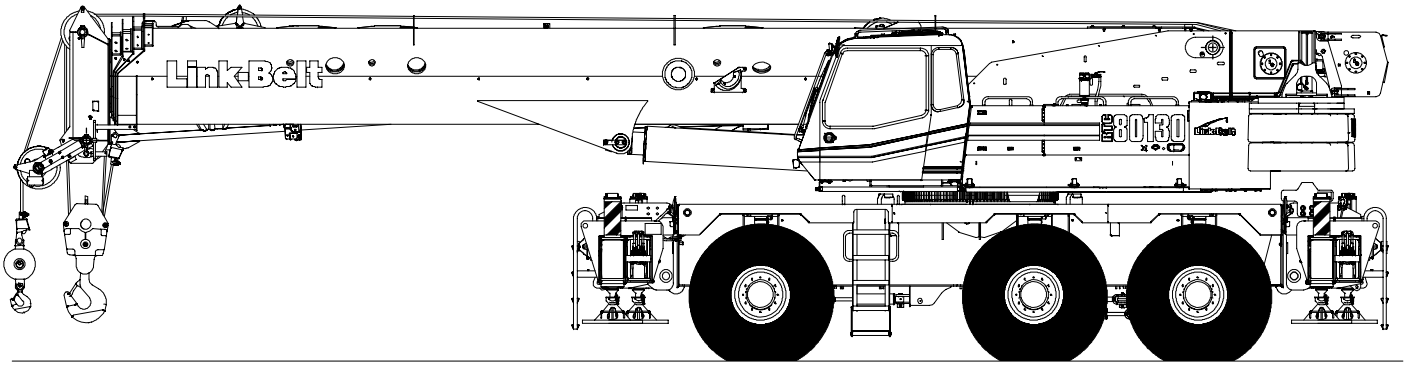
RTC 80130

Series II

Telescopic Boom Rough Terrain Crane

130 US ton

120 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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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 two plate design of each section has multiple longitudinal bends for superior strength. Each telescoping section extends independently by means of one double–acting, single stage hydraulic cylinder with integrated holding valves.

Boom

- 41.4–162 ft (*12.6–49.3m*) five section boom
- Five boom extend modes (EM1 through EM5), controlled from the operator's cab, provide superior capacities by varying the extension of the telescoping sections:
  - EM1 extends to 162.0 ft (*49.3m*)
  - EM2 extends to 150.0 ft (*45.7m*)
  - EM3 extends to 124.7 ft (*38.0m*)
  - EM4 extends to 112.0 ft (*34.1m*)
  - EM5 extends to 86.2 ft (*26.3m*)
- Mechanical boom angle indicator
- Maximum tip height for each extend mode is:
  - EM1 is 171 ft (*52.1m*)
  - EM2 is 159 ft (*48.5m*)
  - EM3 is 134 ft (*40.8m*)
  - EM4 is 122 ft (*37.2m*)
  - EM5 is 96 ft (*29.3m*)

Boom Wear Pads

- Wear pads with Teflon inserts that self–lubricate the boom sections
- Bottom wear pads are universal for all telescoping boom sections
- Bottom wear pads are universal for the boom base section
- Top wear pads are universal for all boom sections

Boom Head

- Six 16.38 in (*41.6cm*) 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: –2.5˚ to 80˚

Auxiliary Lifting Sheave – Optional

- Single 16.38 in (*41.6cm*) 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

- 140 ton (*127.0mt*) 7 sheave, quick–reeve hook block with safety latch
- 100 ton (*90.7mt*) 6 sheave, quick–reeve hook block with safety latch
- 80 ton (*72.5mt*) 5 sheave, quick–reeve hook block with safety latch
- 35 ton (*31.7mt*) 1 sheave, quick–reeve hook block with safety latch
- 12 ton (*10.8mt*) hook ball (swivel) with safety latch

Fly – Optional

- 31 ft–55 ft (*9.4–16.7m*) two piece bi–fold lattice fly, stowable, offsettable to 2˚, 15˚, 30˚, and 45˚. Maximum tip height is 225 ft (*68.7m*).
- 10 ft, 31 ft – 55 ft (*3.0, 9.4–16.7m*) three piece bi–fold lattice fly, stowable, offsettable to 2˚, 15˚, 30˚, and 45˚. Maximum tip height is 225 ft (*68.7m*).
- 10 ft, 31 ft – 55 ft (*3.0, 9.4–16.7m*) three piece bi–fold lattice fly, stowable, hydraulically offsettable from 2˚ through 45˚. Maximum tip height is 225 ft (*68.7m*).

Fly Extensions – Optional

- One 18 ft (*5.5m*) lattice extension, equipped with two 16.38 in (*41.6cm*) root diameter nylon sheaves, to be mounted between the boom head and fly options. Maximum tip height is 243 ft (*74.1m*).
- Two 18 ft (*5.5m*) lattice extensions, one equipped with two 16.38 in (*41.6cm*) root diameter nylon sheaves, to be mounted between the boom head and fly options. Maximum tip height is 260 ft (*79.2m*). Minimum of 26,000 lb (*7 924.8kg*) of counterweight required.
- Three 18 ft (*5.5m*) lattice extensions, one equipped with two 16.38 in (*41.6cm*) root diameter nylon sheaves, to be mounted between the boom head and fly options. Maximum tip height is 278 ft (*84.7m*). Minimum of 26,000 lb (*7 924.8kg*) of counterweight required.

■ 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, power tilting cushioned seat with seat belt
- 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
- Emergency steer – optional

Armrest Controls – Power tilt with seat for operator comfort. Two dual axis electronic joystick controllers or optional single axis electronic controllers for:
- Swing
- Boom hoist
- Main front winch
- Auxiliary rear winch – optional
- Drum rotation indication
- Drum rotation indicator activation switch
- Winch high/low speed and disable switch(es)
- Fine inching mode switch
- Power tilting seat switch
- Warning horn button
- Swing park brake
- Third wrap selector switch – optional

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
- Front windshield wiper and washer
- Cab floodlights light
- Warning horn
- Heating controls
- Console dimmer switch
- Bubble level
- 12 volt power connection
- Air conditioning – optional
- Boom floodlight – optional
- Rotating beacon/Strobe light – 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
- Wind speed
- Third wrap indicators – optional
- Operator settable alarms (include):
  - Maximum and minimum boom angles
  - Maximum tip height
  - Maximum boom length
  - Swing left/right positions
  - Operator defined area (imaginary plane)

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 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.

■ 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

Main (Front) and Auxiliary (Rear) Winches – 7/8 in (22*mm*) 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	18,985	*8 611.9*	156	*47.5*	310	*94.5*	138	*42.0*	263	*80.2*
3	17,280	*7 838.0*	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*
Main (Front) Winch	Standard	7/8	*22*	18x19 rotation resistant – right regular lay (Type RB)	17,520	*7 946.9*
	Optional	7/8	*22*	4 strand, low torque – right regular lay (Type GC)	30,285	*13 737.0*
	Optional	7/8	*22*	36x7 rotation resistant – right regular lay (Type ZB)	20,920	*9 489.2*
Auxiliary (Rear) Winch	Standard	7/8	*22*	18x19 rotation resistant – right regular lay (Type RB)	17,520	*7 946.9*
	Optional	7/8	*22*	4 strand, low torque – right regular lay (Type GC)	30,285	*13 737.0*
	Optional	7/8	*22*	36x7 rotation resistant – right regular lay (Type ZB)	20,920	*9 489.2*

2M Main (Front) and Optional Auxiliary (Rear) 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 – optional
- Drum rotation indicator
- Drum diameter: 15 in (*38.1cm*)
- Rope length:
  - Main (Front): 850 ft (*259.0m*)
  - Auxiliary (Rear): 600 ft (*182.8m*) or 850 ft (*259.0m*)
- 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	Caterpillar C9
Numbers of Cylinders	6
Cycle	4
Bore and Stroke: inch (*mm*)	4.41 x 5.87 (*112 x 149*)
Piston Displacement: in^3 (*L*)	537 (*8.8*)
Max. Brake Horsepower: hp (*kW*)	325 (*242.3*) @ 2,200 rpm
Peak Torque: ft lb (*Nm*)	1,095 (*1 485*) @ 1,400 rpm
Alternator: volts – amps	12/145
Crankcase Capacity: qt (*L*)	34 (*32*)

- 120 V engine block heater
- Ether injection system – 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 (*965.2L*) 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

Valve Control "Fine Inching" Mode – Special fine metering valve settings, selectable from the operator's cab, allows very slow movements to the main and auxiliary winches, boom hoist, and swing for precision work.

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.

Hydraulic Oil Cooler – Integral to the engine radiator/ charge air cooler. Removes heat from the hydraulic oil.

Auxiliary Hydraulic Oil Cooler – Mounted in front of hydraulic reservoir provides additional hydraulic cooling during machine traveling.

■ Pump Drive

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

■ Counterweight

Standard – Total of 29,000 lb (*13 154kg*) consisting of auxiliary winch or 2,000 lb (*907kg*) top counterweight, two 12,000 lb (*5 443kg*) and one 3,000 lb (*1 360kg*) removable counterweights pinned to the upper with capacities for:

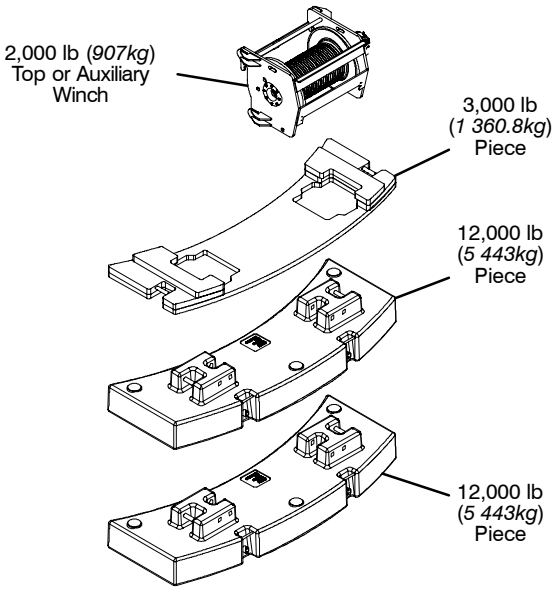
- 0 lb (*0kg*) counterweight
- 14,000 lb (*6 350kg*) counterweight
- 17,000 lb (*7 711kg*) counterweight
- 26,000 lb (*11 794kg*) counterweight
- 29,000 lb (*13 154kg*) counterweight

Optional – Total of 14,000 lb (*6 350kg*) in addition to standard counterweight for a total of 43,000 lb (*19 505kg*) counterweight with additional capacities for:

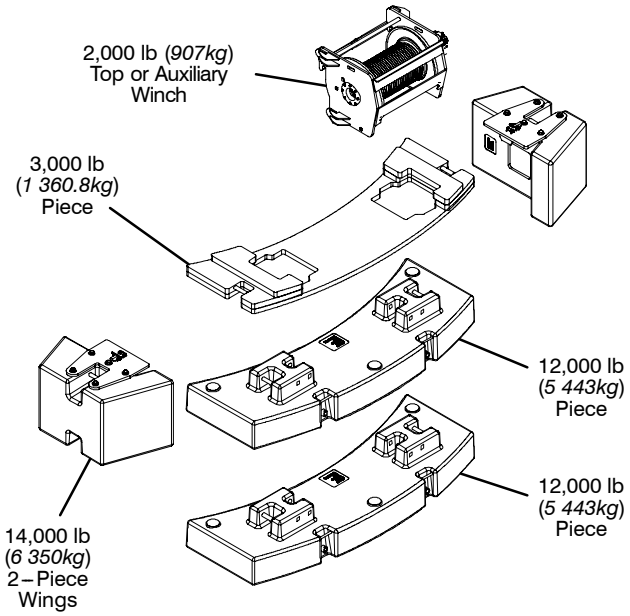
- 43,000 lb (*19 505kg*) counterweight*

* Overall width of the crane increases to 13 ft 4 in (*4.0m*) for this counterweight configuration.

Hydraulic Counterweight Removal – Optional – Activated by a hand–held controller with enough cable to access the pins on each side of the counterweights.



29,000 lb (*13 154kg*)



43,000 lb (*18 505kg*)

Counterweight Packages		29,000 lb (*13 154kg*) – Standard				
		43,000 (*18 505kg*) – Optional				
Counterweight Modules		3,000 lb (*1 361kg*) Piece	12,000 lb (*5 443kg*) Piece	12,000 lb (*5 443kg*) Piece	2,000 lb (*907kg*) Top*	14,000 lb (*6 350kg*) 2 – Piece
Counterweight Usage Configurations	0 lb (*0kg*)					
	14,000lb (*6 350kg*)		X		X	
	17,000 lb (*7 711kg*)	X	X		X	
	26,000 lb (*11 794kg*)		X	X	X	
	29,000 lb (*13 154kg*)	X	X	X	X	
	43,000 lb (*19 505kg*)	X	X	X	X	X

*** Auxiliary winch replaces this counterweight for a two – drum configuration**

Carrier

General

- 9 ft 10 in (*3.00m*) 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 hoses have quick–disconnect fittings for ease for box removal. Hydraulic outrigger pin removal activated by a hand–held controller – 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 531 in^2 (*3 425* cm^2) can be stored for road travel in storage racks on the carrier.

Main Jack Reaction – 160,000 lb (*72 574kg*) force and 301 psi (*2 075.3kPa*) 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: 6x2 high, 6x2 low, and 6x6 for off highway travel

Front Drive Motors – Steered, driven for 6x2 and 6x6

Rear Drive Motors – Steered, non–driven for 6x2 and steered, driven for 6x6

Suspension

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

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

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

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

Tires and Wheels

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

- Spare tires and wheels – optional

Brakes

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

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

Electrical

Three batteries provide 12 volt operation and starting

Lights

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

Carrier Speeds and Gradeability

Variable Hydrostatic Drive	Speed		Gradeability
Range	mph	*km/h*	% Grade
6 WD Low	3.1	*4.9*	44
2 WD Low	9.3	*14.9*	12
2 WD High	18.7	*30.0*	5

Based on a gross vehicle weight of 150,000 lb (*68 038kg*).

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

Hydraulic System

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.

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 – English

Base machine with full tank of fuel and 29,000 lb of counterweight	Gross Vehicle Weight (1)	Upper Facing Front		Upper Facing Rear	
		Front Axle	Rear Axle Group	Front Axles	Rear Axle Group
	lb	lb	lb	lb	lb
	131,089	38,344	92,744	61,091	69,997
Operator in cab	250	154	96	39	211
Hydraulic outrigger pin removal	206	79	127	79	127
Remove outrigger boxes and beams	–17,139	–6,688	–10,450	–6,487	–10,651
Pintle hook, front	13	20	–7	20	–7
Pintle hook, rear	13	–10	23	–10	23
Hydraulic counterweight removal	326	–168	494	–168	494
43,000 lb total counterweight	14,000	–7,471	21,471	18,233	–4,233
Remove 12,000 lb counterweight	–12,093	6,453	–18,546	–15,750	3,657
Remove 12,000 lb counterweight	–12,093	6,453	–18,546	–15,750	3,657
Remove 3,000 lb counterweight	–3,001	1,601	–4,602	–3,908	907
Remove 2,000 lb counterweight – for one winch configuration only	–2,017	1,304	–3,321	–2,855	838
Hoist drum follower – main	99	–49	148	–49	148
Auxiliary winch with 600 ft of wire rope	955	–531	1,486	–531	1,486
Remove auxiliary winch with 600 ft of wire rope – for two winch configuration only	–2,783	1,764	–4,547	–3,903	1,121
Hoist drum follower – auxiliary	101	–75	176	–75	176
Remove 850 ft of wire rope – main winch	–1,451	544	–1,994	–1,659	208
Remove 600 ft of wire rope – auxiliary winch	–1,031	590	–1,621	–1,382	352
Substitute 600 ft of wire rope with 850 ft of wire rope – auxiliary winch	420	–240	660	563	–143
360˚ mechanical swing lock	136	52	84	52	84
Air conditioning	76	37	39	21	55
Auxiliary lifting sheave	120	362	–242	–269	389
Boom floodlight	7	18	–11	–13	20
Fly mounting brackets to boom base for fly options	290	508	–218	–285	575
31–55 ft offsettable, two piece bi–fold fly – stowed	2,734	4,667	–1,933	–2,565	5,299
10–31–55 ft offsettable, three piece bi–fold fly – stowed	3,331	6,077	–2,746	–3,516	6,847
10–31–55 ft hydraulically offsettable, three piece bi–fold fly – stowed	3,804	7,338	–3,534	–4,414	8,218
Additional components for hydraulically offsettable fly	469	990	–521	–629	1,098
12 ton swivel hook ball (stowed at front/rear bumper)	722	1,153	–431	–598	1,320
12 ton swivel hook ball (stowed at boom head)	722	2,092	–1,370	–1,537	2,259
35 ton 1–sheave hook block (stowed at front/rear bumper)	1,100	1,756	–656	–911	2,011
35 ton 1–sheave hook block (stowed at boom head)	1,100	3,188	–2,088	–2,342	3,442
80 ton 5–sheave hook block (stowed at front/rear bumper)	1,411	2,253	–842	–1,168	2,579
80 ton 5–sheave hook block (stowed at boom head)	1,411	4,089	–2,678	–3,004	4,415
100 ton 6–sheave hook block (stowed at front/rear bumper)	1,750	2,794	–1,044	–1,449	3,199
100 ton 6–sheave hook block (stowed at boom head)	1,750	5,071	–3,321	–3,726	5,476
140 ton 7–sheave hook block (stowed at front/rear bumper)	2,394	3,822	–1,428	–1,982	4,376
140 ton 7–sheave hook block (stowed at boom head)	2,394	6,938	–4,544	–5,097	7,491

Tire	Maximum Load @ 20 mph
23.5R25	57,330 lb

(1) Adjust gross vehicle weight and axle loading according to component weight.
Note: All weights are ±3%.

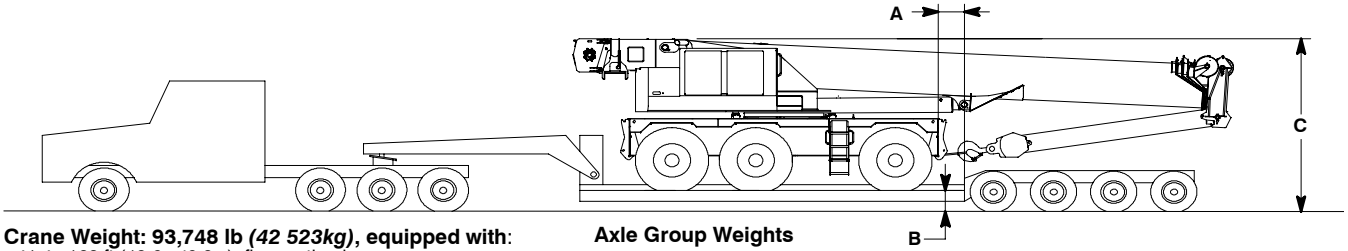
Axle Loads – Metric

Base machine with full tank of fuel and *13 154.1kg* of counterweight	Gross Vehicle Weight (1)	Upper Facing Front		Upper Facing Rear	
		Front Axle	Rear Axle Group	Front Axles	Rear Axle Group
	kg	*kg*	*kg*	*kg*	*kg*
	59 461	*17 393*	*42 068*	*27 710*	*31 750*
Operator in cab	*113*	*70*	*44*	*18*	*96*
Hydraulic outrigger pin removal	*93*	*36*	*58*	*36*	*58*
Remove outrigger boxes and beams	*–7 774*	*–3 034*	*–4 740*	*–2 942*	*–4 831*
Pintle hook, front	*6*	*9*	*–3*	*9*	*–3*
Pintle hook, rear	*6*	*–5*	*10*	*–5*	*10*
Hydraulic counterweight removal	*148*	*–76*	*224*	*–76*	*224*
19 504.4kg total counterweight	*6 350*	*–3 389*	*9 739*	*8 270*	*–1 920*
Remove *5 443.1kg* counterweight	*–5 485*	*2 927*	*–8 412*	*–7 144*	*1 659*
Remove *5 443.1kg* counterweight	*–5 485*	*2 927*	*–8 412*	*–7 144*	*1 659*
Remove *1 360.8kg* counterweight	*–1 361*	*726*	*–2 078*	*–1 773*	*411*
Remove *907.1kg* counterweight – for one winch configuration only	*–915*	*591*	*–1 506*	*–1 295*	*380*
Hoist drum follower – main	*45*	*–22*	*67*	*–22*	*67*
Auxiliary winch with *182.8m* of wire rope	*433*	*–241*	*674*	*–241*	*674*
Remove auxiliary winch with *182.8m* of wire rope – for two winch configuration only	*–1 262*	*800*	*–2 063*	*–1 770*	*508*
Hoist drum follower – auxiliary	*46*	*–34*	*80*	*–34*	*80*
Remove *259.0kg* of wire rope – main winch	*–658*	*247*	*–904*	*–753*	*94*
Remove *182.8m* of wire rope – auxiliary winch	*–468*	*268*	*–735*	*–627*	*160*
Substitute *182.8m* of wire rope with *259.0kg* of wire rope – auxiliary winch	*191*	*–109*	*299*	*255*	*–65*
360˚ mechanical swing lock	*62*	*24*	*38*	*24*	*38*
Air conditioning	*34*	*17*	*18*	*10*	*25*
Auxiliary lifting sheave	*54*	*164*	*–110*	*–122*	*176*
Boom floodlight	*3*	*8*	*–5*	*–6*	*9*
Fly mounting brackets to boom base for fly options	*132*	*230*	*–99*	*–129*	*261*
9.4 – 16.7m offsettable, two piece bi–fold fly – stowed	*1 240*	*2 117*	*–877*	*–1 163*	*2 404*
3.0 – 9.4 – 16.7m offsettable, three piece bi–fold fly – stowed	*1 511*	*2 757*	*–1 246*	*–1 595*	*3 106*
3.0 – 9.4 – 16.7m hydraulically offsettable, three piece bi–fold fly – stowed	*1 725*	*3 329*	*–1 603*	*–2 002*	*3 728*
Additional components for hydraulically offsettable fly	*213*	*449*	*–236*	*–285*	*498*
10.8mt swivel hook ball (stowed at front/rear bumper)	*327*	*523*	*–196*	*–271*	*599*
10.8mt swivel hook ball (stowed at boom head)	*327*	*949*	*–621*	*–697*	*1 025*
31.7mt 1–sheave hook block (stowed at front/rear bumper)	*499*	*797*	*–298*	*–413*	*4 433*
31.7mt 1–sheave hook block (stowed at boom head)	*499*	*1 446*	*–947*	*–1 062*	*1 561*
72.5mt 5–sheave hook block (stowed at front/rear bumper)	*640*	*1 022*	*–382*	*–530*	*1 170*
72.5mt 5–sheave hook block (stowed at boom head)	*640*	*1 855*	*–1 215*	*–1 363*	*2 003*
90.7mt 6–sheave hook block (stowed at front/rear bumper)	*794*	*1 267*	*–474*	*–657*	*1 451*
90.7mt 6–sheave hook block (stowed at boom head)	*794*	*2 300*	*–1 506*	*–1 690*	*2 484*
127.0mt 7–sheave hook block (stowed at front/rear bumper)	*1 086*	*1 734*	*–648*	*–899*	*1 985*
127.0mt 7–sheave hook block (stowed at boom head)	*1 086*	*3 147*	*–2 061*	*–2 312*	*3 398*

Tire	Maximum Load @ *32.2km/h*
23.5R25	*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: 93,748 lb *(42 523kg)*, equipped with:
- 41.4 – 162 ft (*12.6 – 49.3m*), five section boom
- 80 ton (*72.57mt*) hook block
- Main winch with 850 ft (*259.1m*) of 7/8 in (*22mm*) rope
- Auxiliary winch with 600 ft (*182.8m*) of 7/8 in (*22mm*) rope
- 10 – 31 – 55 ft (*3.0 – 9.4 – 16.7m*) offsettable, three piece bi – fold fly
- Hoist drum followers – Main and Auxiliary
- Auxiliary lifting sheave
- Air conditioning
- Hydraulic outrigger pin removal

Drop Off Load Weight: 44,478 lb (*20 175kg*)
- Two outrigger boxes with tow shackles
- 27,000 lb (*13 154.1kg*) counterweight
- 12 ton (*10.9mt*) hook ball

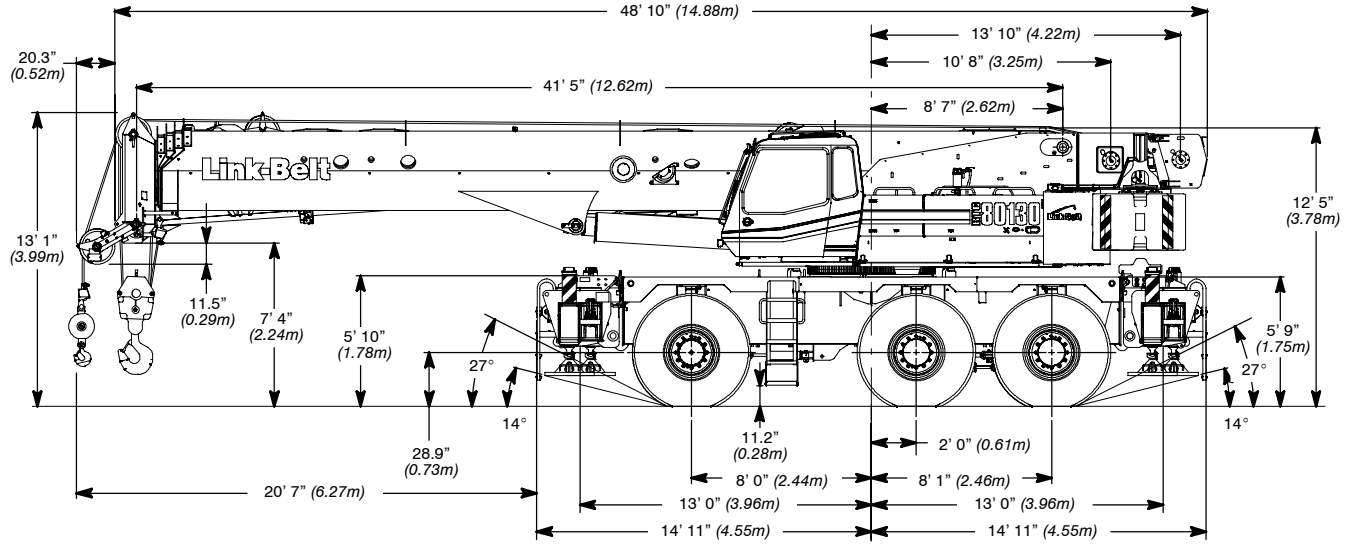
Axle Group Weights

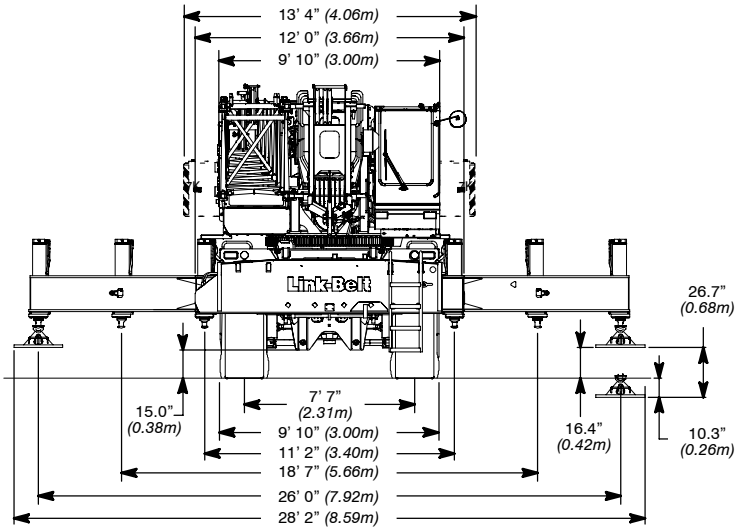
Empty Truck Wt.	Bed Length	Steer	Drivers	Trailer	A
48,500 lb (*22 000kg*)	25 ft (*7.62m*)	12,500 lb (*5 670kg*)	59,541 lb (*27 007kg*)	70,207 lb (*31 845kg*)	5 in (*0.1m*)

B – 18 in (*0.46m*) or 24 in (*0.61m*)

	Normal Suspension	Collapsed Suspension
C [with 18 in (*0.46m*) Trailer]	13 ft 11 in (*4.24m*)	13 ft 8 in (*4.16m*)
C [with 24 in (*0.61m*) Trailer]	14 ft 5 in (*4.39m*)	14 ft 2 in (*4.32m*)

General Dimensions



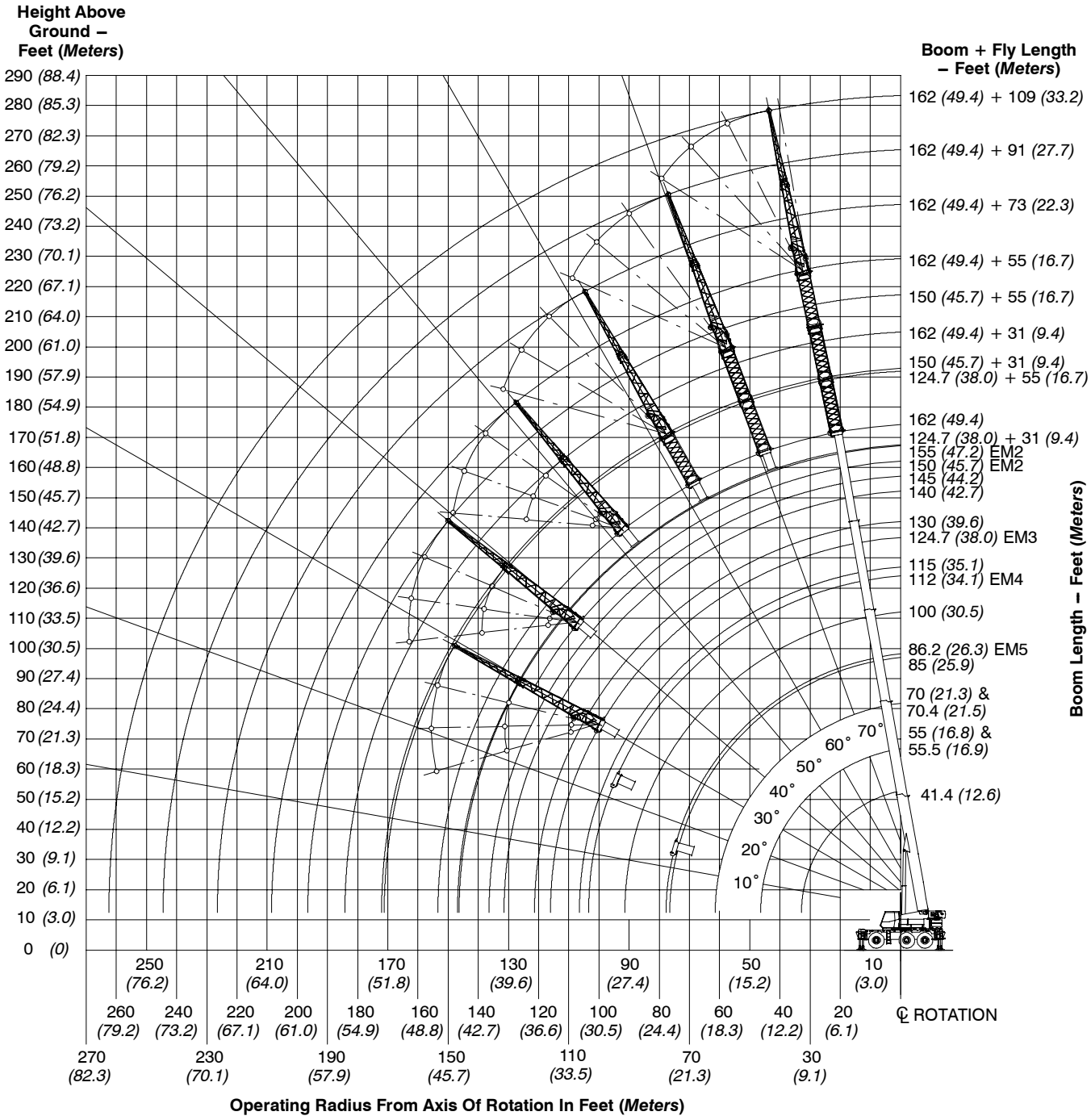


Turning Radius – 2 Wheel Steering	English	*Metric*
Wall to wall over carrier	44' 10"	*13.67m*
Wall to wall over boom attachment	56' 0"	*17.07m*
Curb to curb	41' 5"	*12.62m*
Centerline of tire	40' 4"	*12.29m*

Turning Radius – 6 Wheel Steering	English	*Metric*
Wall to wall over carrier	25' 5"	*7.75m*
Wall to wall over boom attachment	38' 9"	*11.81m*
Curb to curb	21' 10"	*6.66m*
Centerline of tire	20' 9"	*6.32m*

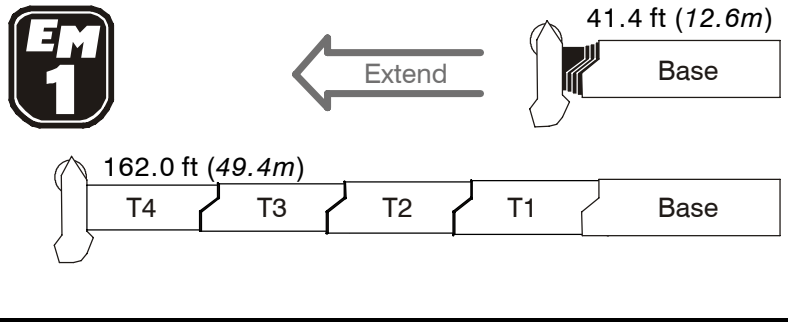
Tail Swing	English	*Metric*
of counterweight (w/o auxiliary winch)	13' 9"	*3.90m*
of auxiliary winch	15' 1"	*4.60m*

Working Range Diagram

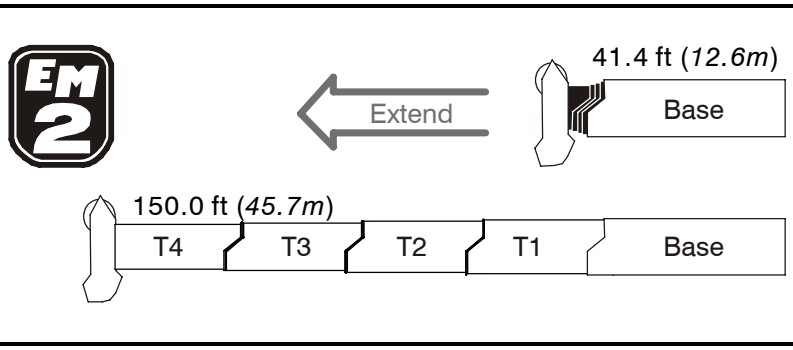


Boom Extend Modes

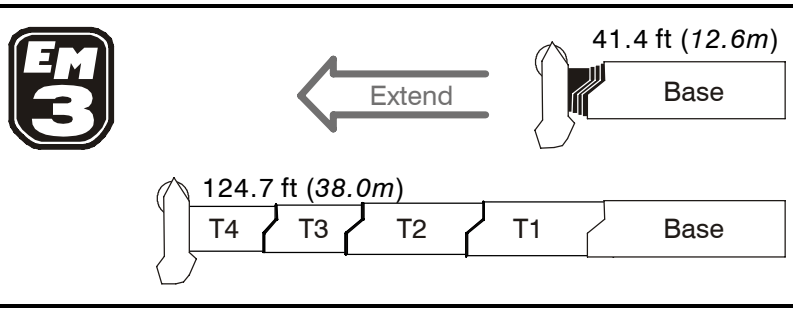
Boom Length		Telescope Length			
ft	*m*	T4	T3	T2	T1
41.4	*12.6*				
55	*16.8*	47%			
70	*21.3*	99%			
85	*25.9*	100%	49%		
100	*30.5*	100%	100%		
115	*35.1*	100%	100%	49%	
130	*39.6*	100%	100%	98%	
145	*44.2*	100%	100%	100%	46%
155	*47.2*	100%	100%	100%	78%
162	*49.4*	100%	100%	100%	100%



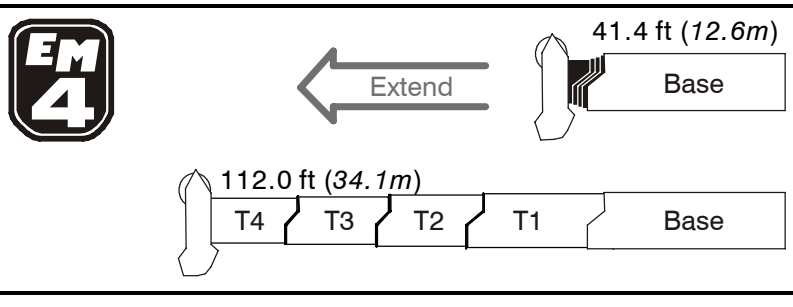
Boom Length		Telescope Length			
ft	*m*	T4	T3	T2	T1
41.4	*12.6*				
55	*16.8*	47%			
70	*21.3*	90%	9%		
85	*25.9*	90%	60%		
100	*30.5*	90%	90%	20%	
115	*35.1*	90%	90%	69%	
130	*39.6*	90%	90%	90%	27%
140	*42.7*	90%	90%	90%	59%
150	*45.7*	90%	90%	90%	90%



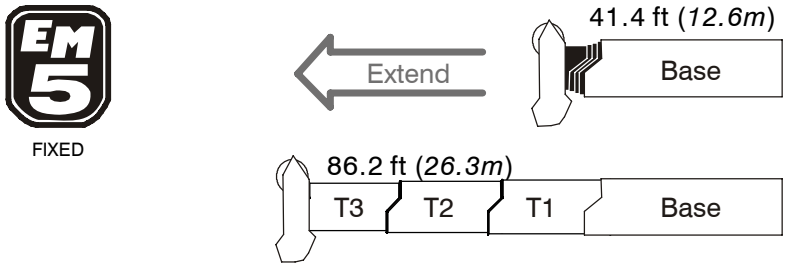
Boom Length		Telescope Length			
ft	*m*	T4	T3	T2	T1
41.4	*12.6*				
55	*16.8*	46%	1%		
70	*21.3*	46%	47%	4%	
85	*25.9*	46%	47%	53%	
100	*30.5*	46%	47%	90%	12%
115	*35.1*	46%	47%	90%	60%
124.7	*38.0*	46%	47%	90%	90%



Boom Length		Telescope Length			
ft	*m*	T4	T3	T2	T1
41.4	*12.6*				
55	*16.8*	46%	1%		
70	*21.3*	46%	47%	4%	
85	*25.9*	46%	47%	49%	4%
100	*30.5*	46%	47%	49%	52%
112	*34.1*	46%	47%	49%	90%



Boom Length		Telescope Length			
ft	*m*	T4	T3	T2	T1
41.4	*12.6*				
55.5	*16.9*		47%		
70.4	*21.5*		47%	49%	
86.2	*26.3*		47%	49%	50%



Main Boom Lift Capacity Charts – Standard

29,000 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

Radius (ft)	Boom Length (ft)										Radius (ft)
	41.4	55	70	85	100	115	130	145	155	162	
9	260,000										9
10	240,600	157,000	151,100								10
12	218,000	157,000	150,200								12
15	186,400	157,000	135,800	105,500							15
20	138,400	140,900	116,900	89,800	65,200	56,400					20
25	108,500	111,200	102,400	77,900	65,200	55,500	51,000				25
30	88,100	91,000	90,900	69,100	63,900	49,400	45,400	37,200			30
35		69,900	69,200	65,300	57,100	44,400	40,600	37,200	31,900	26,100	35
40		54,800	56,200	56,100	51,300	40,200	36,500	34,900	31,900	26,100	40
45		44,300	46,000	45,900	44,900	36,700	32,900	32,000	30,000	26,100	45
50			39,200	38,300	37,400	33,600	30,100	29,400	27,500	26,100	50
55			33,600	33,000	32,400	30,900	27,800	37,100	25,300	24,100	55
60			28,900	29,800	28,500	27,200	25,800	25,000	23,400	22,200	60
65				26,000	26,100	24,300	24,000	23,200	21,700	20,700	65
70				22,900	23,000	22,700	22,200	21,600	20,200	19,200	70
75				20,300	20,800	20,500	19,600	19,500	18,700	17,900	75
80					18,500	18,300	17,700	17,400	17,100	16,700	80
85					16,700	16,500	16,300	15,700	15,300	15,100	85
90					15,100	14,900	14,700	14,100	13,700	13,500	90
95						13,400	13,300	12,700	12,300	12,100	95
100						12,100	12,000	11,400	11,000	10,800	100
105						11,000	10,800	10,300	9,900	9,700	105
110							9,800	9,300	8,900	8,700	110
115							8,900	8,300	8,000	7,800	115
120							8,100	7,500	7,200	7,000	120
125								6,700	6,400	6,200	125
130								6,000	5,700	5,500	130
135								5,600	5,100	4,900	135
140									4,500	4,300	140
145									4,000	3,800	145
150										3,300	150

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

43,000 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

Radius (ft)	Boom Length (ft)										Radius (ft)
	41.4	55	70	85	100	115	130	145	155	162	
9	260,000										9
10	240,600	157,000	151,100								10
12	218,000	157,000	150,200								12
15	190,700	157,000	135,800	105,500							15
20	145,500	148,100	116,900	89,800	65,200	56,400					20
25	114,400	117,100	102,400	77,900	65,200	55,500	51,000				25
30	93,200	95,900	90,900	69,100	63,900	49,400	45,400	37,200			30
35		80,600	81,300	65,300	57,100	44,400	40,600	37,200	31,900	26,100	35
40		65,800	67,300	64,900	51,300	40,200	36,500	34,900	31,900	26,100	40
45		53,600	55,200	55,000	46,500	36,700	32,900	32,000	30,000	26,100	45
50			46,400	46,400	42,400	33,600	30,100	29,400	27,500	26,100	50
55			39,500	39,700	38,700	30,900	27,800	27,100	25,300	24,100	55
60			35,100	34,400	33,600	28,600	25,800	25,000	23,400	22,200	60
65				30,100	29,300	26,500	24,000	23,200	21,700	20,700	65
70				26,800	26,400	24,600	22,500	21,600	20,200	19,200	70
75				25,100	23,400	22,900	21,000	20,300	18,700	17,900	75
80					22,000	20,400	19,800	19,000	17,400	16,700	80
85					20,400	18,900	18,600	17,800	16,200	15,600	85
90					18,500	17,800	17,600	16,700	15,100	14,600	90
95						16,800	16,300	15,700	14,100	13,500	95
100						15,500	14,900	14,600	13,100	12,600	100
105						14,200	13,500	13,500	12,300	11,800	105
110							12,300	12,300	11,500	11,000	110
115							11,600	11,200	10,800	10,300	115
120							10,800	10,300	10,000	9,600	120
125								9,400	9,100	8,900	125
130								8,600	8,300	8,100	130
135								7,900	7,500	7,300	135
140									6,900	6,600	140
145									6,200	6,000	145
150										5,500	150

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.

Manual Offset Fly Attachment Lift Capacity Charts – Optional

29,000 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

Radius (ft)	Main Boom + 10 ft Manual Offset Fly (2°, 15°, 30°, 45° Offsets)													Radius (ft)
	Boom Length (ft)													
	41.4	55	70	85	100	115	124.7	130	140	145	150	155	162	
10	51,800	51,800												10
12	47,300	51,800	51,800											12
15	46,400	46,800	51,800	51,800										15
20	45,200	45,700	46,000	45,800	51,800									20
25	44,600	44,900	45,100	45,000	44,300	50,700	43,400	36,300						25
30	44,600	44,400	44,500	44,400	43,800	42,800	41,600	36,300	29,900	25,600	25,400			30
35	44,600	44,300	44,100	44,000	41,300	40,100	37,300	34,100	29,900	25,600	25,400	22,400		35
40	44,600	44,300	44,000	43,700	37,500	36,400	34,000	32,200	29,900	25,600	25,400	22,400	20,000	40
45		44,300	44,000	43,500	34,500	33,400	31,000	29,500	29,500	25,600	25,400	22,400	20,000	45
50		38,700	39,100	38,700	31,800	30,600	28,300	27,100	27,100	25,600	25,400	22,400	20,000	50
55		33,000	33,400	33,000	29,400	28,200	25,700	25,100	24,900	24,200	23,300	22,400	20,000	55
60			29,300	28,400	27,300	26,000	23,500	23,200	23,000	22,500	21,500	21,200	20,000	60
65			25,900	25,100	24,300	23,500	21,500	21,600	21,300	20,900	19,800	19,600	18,700	65
70			23,000	23,100	21,900	20,500	19,800	20,100	19,700	19,400	18,400	18,100	17,000	70
75				20,600	20,300	19,100	17,600	18,800	18,400	18,100	17,200	17,100	16,300	75
80				18,400	18,100	17,900	15,600	17,100	16,900	17,100	16,000	15,900	15,100	80
85				16,600	16,400	16,300	13,700	15,400	15,000	15,300	14,600	14,800	14,100	85
90					15,000	14,600	12,100	13,900	13,400	13,700	13,000	13,300	13,000	90
95					13,600	13,200	10,700	12,900	11,900	12,200	11,600	11,800	11,600	95
100					12,300	11,900	9,500	11,600	10,700	11,000	10,300	10,600	10,300	100
105						10,800	8,300	10,500	9,600	9,800	9,200	9,400	9,200	105
110						9,800	7,300	9,500	8,500	8,800	8,200	8,400	8,200	110
115						8,900	6,500	8,600	7,600	7,900	7,300	7,500	7,300	115
120							5,600	7,700	6,800	7,100	6,400	6,700	6,500	120
125							4,900	7,000	6,100	6,300	5,700	6,000	5,700	125
130								6,300	5,400	5,700	5,000	5,300	5,000	130
135									4,800	5,000	4,400	4,700	4,400	135
140									4,200	4,400	3,800	4,100	3,800	140
145										3,900	3,300	3,600	3,300	145
150											2,800	3,000	2,800	150
155												2,600	2,400	155
160													1,900	160

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.

43,000 lb Counterweight – Fully Extended Outriggers – 360° Rotation

(All Capacities Are Listed In Pounds)

Radius (ft)	Main Boom + 10 ft Manual Offset Fly (2°, 15°, 30°, 45° Offsets)													Radius (ft)
	Boom Length (ft)													
	41.4	55	70	85	100	115	124.7	130	140	145	150	155	162	
10	51,800	51,800												10
12	47,300	51,800	51,800											12
15	46,400	46,800	51,800	51,800										15
20	45,200	45,700	46,000	45,800	51,800									20
25	44,600	44,900	45,100	45,000	44,300	50,700	43,400	36,300						25
30	44,600	44,400	44,500	44,400	43,800	42,800	41,600	36,300	29,900	25,600	25,400	22,400		30
35	44,600	44,300	44,100	44,000	41,300	40,100	37,300	34,100	29,900	25,600	25,400	22,400		35
40	44,600	44,300	44,000	43,700	37,500	36,400	34,000	32,200	29,900	25,600	25,400	22,400	20,000	40
45		44,300	44,000	43,500	34,500	33,400	31,000	29,500	29,500	25,600	25,400	22,400	20,000	45
50		43,600	44,000	43,500	31,800	30,600	28,300	27,100	27,100	25,600	25,400	22,400	20,000	50
55		40,000	40,400	40,000	29,400	28,200	25,700	25,100	24,900	24,200	23,300	22,400	20,000	55
60			35,100	34,700	27,300	26,000	23,500	23,200	23,000	22,500	21,500	21,200	20,000	60
65			30,900	30,500	25,400	24,100	21,500	21,600	21,300	20,900	19,800	19,600	18,700	65
70			27,300	26,900	23,700	22,400	19,800	20,100	19,700	19,400	18,400	18,100	17,000	70
75				24,000	22,200	20,900	18,200	18,800	18,400	18,100	17,200	17,100	16,300	75
80				21,500	20,900	19,500	17,000	17,600	17,200	17,100	16,000	15,900	15,100	80
85				19,600	18,800	18,100	15,700	16,700	16,200	16,000	14,900	14,800	14,100	85
90					17,300	16,400	14,600	15,700	15,200	14,900	13,900	13,800	13,100	90
95					16,500	15,000	13,500	14,800	14,200	14,000	12,900	12,900	12,200	95
100					15,400	14,200	12,500	13,900	13,300	13,100	12,000	12,000	11,400	100
105						13,400	11,600	13,200	12,500	12,400	11,100	11,200	10,600	105
110						12,700	10,400	12,000	11,600	11,600	10,300	10,400	9,900	110
115						11,800	9,400	11,000	10,600	10,800	9,600	9,700	9,200	115
120							8,400	10,000	9,600	9,900	9,000	9,000	8,500	120
125							7,600	9,100	8,700	9,000	8,300	8,400	7,900	125
130								8,700	7,900	8,200	7,600	7,800	7,400	130
135									7,200	7,500	6,800	7,100	6,800	135
140									6,500	6,800	6,200	6,400	6,200	140
145										6,200	5,500	5,800	5,600	145
150											5,000	5,200	5,000	150
155												4,700	4,500	155
160													3,900	160

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.

29,000 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

162 ft Main Boom Length

Radius (ft)	31 ft Manual Offset Fly				55 ft Manual Offset Fly				Radius (ft)
	2° Offset	15° Offset	30° Offset	45° Offset	2° Offset	15° Offset	30° Offset	45° Offset	
35	14,600								35
40	14,600				10,600				40
45	14,600	14,600			10,600				45
50	14,600	14,600			10,600				50
55	14,600	14,600	14,300		10,600				55
60	14,600	14,600	14,100	13,200	10,600	9,700			60
65	14,600	14,600	14,000	13,100	10,600	9,500			65
70	14,600	14,600	13,800	13,100	10,500	9,400	8,300		70
75	14,600	14,600	13,700	13,000	10,300	9,200	8,200		75
80	14,200	14,400	13,600	12,900	10,200	9,000	8,100		80
85	13,200	13,400	13,500	12,800	10,000	8,900	8,000	7,300	85
90	12,300	12,500	12,800	12,800	9,800	8,700	7,800	7,300	90
95	11,500	11,700	11,900	12,100	9,600	8,600	7,700	7,200	95
100	10,700	10,900	11,100	11,300	9,500	8,500	7,600	7,100	100
105	9,500	10,100	10,400	10,600	9,200	8,300	7,600	7,100	105
110	8,500	9,000	9,500	9,900	8,600	8,200	7,500	7,100	110
115	7,600	8,100	8,500	8,800	8,000	8,100	7,400	7,000	115
120	6,800	7,200	7,600	7,900	7,500	7,800	7,300	7,000	120
125	6,000	6,400	6,800	7,000	6,700	7,300	7,300	7,000	125
130	5,300	5,700	6,000	6,200	6,000	6,700	7,000	6,900	130
135	4,700	5,000	5,300	5,500	5,300	6,000	6,600	6,800	135
140	4,100	4,400	4,700	4,800	4,800	5,300	5,900	6,300	140
145	3,600	3,900	4,100	4,200	4,200	4,800	5,300	5,600	145
150	3,100	3,400	3,600		3,700	4,200	4,700	5,000	150
155	2,600	2,900	3,000		3,200	3,700	4,100	4,400	155
160	2,200	2,400	2,600		2,800	3,200	3,600	3,800	160
165	1,800	2,000	2,100		2,400	2,800	3,100	3,300	165
170	1,500	1,600			2,000	2,400	2,700	2,800	170
175		1,200			1,700	2,000	2,200		175
180					1,300	1,600	1,800		180
185						1,300	1,500		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.

43,000 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

162 ft Main Boom Length

Radius (ft)	31 ft Manual Offset Fly				55 ft Manual Offset Fly				Radius (ft)
	2° Offset	15° Offset	30° Offset	45° Offset	2° Offset	15° Offset	30° Offset	45° Offset	
35	14,600								35
40	14,600				10,600				40
45	14,600	14,600			10,600				45
50	14,600	14,600			10,600				50
55	14,600	14,600	14,300		10,600				55
60	14,600	14,600	14,100	13,200	10,600	9,700			60
65	14,600	14,600	14,000	13,100	10,600	9,500			65
70	14,600	14,600	13,800	13,100	10,500	9,400	8,300		70
75	14,600	14,600	13,700	13,000	10,300	9,200	8,200		75
80	14,200	14,400	13,600	12,900	10,200	9,000	8,100		80
85	13,200	13,400	13,500	12,800	10,000	8,900	8,000	7,300	85
90	12,300	12,500	12,800	12,800	9,800	8,700	7,800	7,300	90
95	11,500	11,700	11,900	12,100	9,600	8,600	7,700	7,200	95
100	10,700	10,900	11,100	11,300	9,500	8,500	7,600	7,100	100
105	10,000	10,200	10,400	10,600	9,200	8,300	7,600	7,100	105
110	9,400	9,600	9,800	9,900	8,600	8,200	7,500	7,100	110
115	8,800	8,900	9,100	9,300	8,000	8,100	7,400	7,000	115
120	8,200	8,400	8,600	8,700	7,500	7,800	7,300	7,000	120
125	7,700	7,800	8,000	8,100	7,000	7,300	7,300	7,000	125
130	7,200	7,300	7,500	7,600	6,600	6,800	7,000	6,900	130
135	6,700	6,900	7,000	7,100	6,100	6,300	6,600	6,800	135
140	6,300	6,400	6,600	6,700	5,700	5,900	6,100	6,300	140
145	5,800	6,000	6,100	6,200	5,300	5,500	5,700	5,900	145
150	5,300	5,500	5,700		5,000	5,200	5,400	5,500	150
155	4,700	5,000	5,100		4,600	4,800	5,000	5,100	155
160	4,200	4,400	4,600		4,300	4,500	4,700	4,800	160
165	3,800	4,000	4,100		4,000	4,200	4,300	4,400	165
170	3,400	3,500	3,600		3,800	3,900	4,000	4,100	170
175	3,000	3,100			3,500	3,600	3,700		175
180	2,600	2,700			3,100	3,400	3,500		180
185					2,800	3,000	3,200		185
190					2,400	2,600	2,800		190
195					2,100	2,300	2,400		195
200					1,800	2,000			200
205					1,600	1,600			205

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.

29,000 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

162 ft Main Boom Length

Radius (ft)	73 ft Manual Offset Fly				91 ft Manual Offset Fly				109 ft Manual Offset Fly				Radius (ft)
	2° Offset	15° Offset	30° Offset	45° Offset	2° Offset	15° Offset	30° Offset	45° Offset	2° Offset	15° Offset	30° Offset	45° Offset	
55	8,500												55
60	8,500				6,500								60
65	8,500				6,500				5,000				65
70	8,500	8,500			6,500				5,000				70
75	8,500	8,500			6,500	6,500			5,000				75
80	8,500	8,500			6,500	6,500			5,000				80
85	8,500	8,400	7,600		6,500	6,500			5,000	5,000			85
90	8,500	8,300	7,500		6,500	6,500	6,100		5,000	5,000			90
95	8,500	8,200	7,500	6,800	6,500	6,500	5,900		5,000	4,900			95
100	8,500	8,100	7,400	6,600	6,500	6,300	5,600	5,200	5,000	4,600	4,200		100
105	8,500	8,000	7,100	6,400	6,500	6,000	5,400	5,000	4,700	4,400	4,000		105
110	8,000	7,900	6,900	6,300	6,400	5,800	5,200	4,800	4,500	4,100	3,800	3,500	110
115	7,400	7,700	6,700	6,100	6,100	5,500	5,000	4,600	4,200	3,900	3,600	3,400	115
120	6,900	7,100	6,500	6,000	5,800	5,300	4,800	4,500	4,000	3,700	3,400	3,200	120
125	6,400	6,600	6,300	5,800	5,500	5,100	4,600	4,300	3,800	3,500	3,200	3,000	125
130	5,800	6,200	6,200	5,700	5,100	4,900	4,400	4,200	3,600	3,300	3,000	2,900	130
135	5,100	5,700	6,000	5,600	4,700	4,700	4,300	4,000	3,400	3,200	2,900	2,700	135
140	4,500	5,100	5,600	5,500	4,300	4,500	4,100	3,900	3,200	3,000	2,700	2,600	140
145	4,000	4,500	5,100	5,400	3,900	4,200	4,000	3,800	3,100	2,800	2,600	2,400	145
150	3,500	4,000	4,500	4,900	3,400	3,900	3,900	3,700	2,900	2,700	2,500	2,300	150
155	3,000	3,400	4,000	4,300	2,900	3,400	3,700	3,600	2,600	2,600	2,300	2,200	155
160	2,500	3,000	3,500	3,800	2,400	2,900	3,500	3,500	2,300	2,400	2,200	2,100	160
165	2,100	2,500	3,000	3,300	2,000	2,500	3,000	3,300	1,900	2,200	2,100	2,000	165
170	1,800	2,100	2,500	2,800	1,600	2,100	2,500	2,800	1,500	2,000	2,000	1,900	170
175	1,400	1,700	2,100	2,300	1,300	1,700	2,100	2,400		1,600	1,900	1,800	175
180		1,400	1,700	1,900		1,300	1,700	1,900		1,200	1,700	1,700	180
185			1,300	1,500			1,300	1,500			1,300	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.

43,000 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

162 ft Main Boom Length

Radius (ft)	73 ft Manual Offset Fly				91 ft Manual Offset Fly				109 ft Manual Offset Fly				Radius (ft)
	2° Offset	15° Offset	30° Offset	45° Offset	2° Offset	15° Offset	30° Offset	45° Offset	2° Offset	15° Offset	30° Offset	45° Offset	
55	8,500												55
60	8,500				6,500								60
65	8,500				6,500				5,000				65
70	8,500	8,500			6,500				5,000				70
75	8,500	8,500			6,500	6,500			5,000				75
80	8,500	8,500			6,500	6,500			5,000				80
85	8,500	8,400	7,600		6,500	6,500			5,000	5,000			85
90	8,500	8,300	7,500		6,500	6,500	6,100		5,000	5,000			90
95	8,500	8,200	7,500	6,800	6,500	6,500	5,900		5,000	4,900			95
100	8,500	8,100	7,400	6,600	6,500	6,300	5,600	5,200	5,000	4,600	4,200		100
105	8,500	8,000	7,100	6,400	6,500	6,000	5,400	5,000	4,700	4,400	4,000		105
110	8,000	7,900	6,900	6,300	6,400	5,800	5,200	4,800	4,500	4,100	3,800	3,500	110
115	7,400	7,700	6,700	6,100	6,100	5,500	5,000	4,600	4,200	3,900	3,600	3,400	115
120	6,900	7,100	6,500	6,000	5,800	5,300	4,800	4,500	4,000	3,700	3,400	3,200	120
125	6,400	6,600	6,300	5,800	5,500	5,100	4,600	4,300	3,800	3,500	3,200	3,000	125
130	6,000	6,200	6,200	5,700	5,100	4,900	4,400	4,200	3,600	3,300	3,000	2,900	130
135	5,500	5,800	6,000	5,600	4,700	4,700	4,300	4,000	3,400	3,200	2,900	2,700	135
140	5,100	5,400	5,600	5,500	4,300	4,500	4,100	3,900	3,200	3,000	2,700	2,600	140
145	4,800	5,000	5,200	5,400	4,000	4,200	4,000	3,800	3,100	2,800	2,600	2,400	145
150	4,400	4,600	4,800	5,000	3,600	3,900	3,900	3,700	2,900	2,700	2,500	2,300	150
155	4,100	4,300	4,500	4,700	3,300	3,500	3,700	3,600	2,600	2,600	2,300	2,200	155
160	3,700	3,900	4,100	4,300	3,000	3,200	3,500	3,500	2,300	2,400	2,200	2,100	160
165	3,400	3,600	3,800	4,000	2,700	2,900	3,200	3,400	2,000	2,200	2,100	2,000	165
170	3,200	3,300	3,500	3,700	2,500	2,700	2,900	3,100	1,800	2,000	2,000	1,900	170
175	2,900	3,000	3,200	3,300	2,200	2,400	2,600	2,800	1,500	1,700	1,900	1,800	175
180	2,600	2,800	2,900	3,000	2,000	2,100	2,300	2,500	1,300	1,500	1,700	1,700	180
185	2,400	2,500	2,700	2,800	1,700	1,900	2,100	2,200		1,200	1,400	1,600	185
190	2,100	2,300	2,400	2,500	1,500	1,700	1,800	1,900			1,200	1,300	190
195	1,800	2,000	2,200		1,300	1,400	1,600	1,700					195
200	1,500	1,700	1,900			1,200	1,400	1,400					200
205	1,200	1,400	1,500					1,200					205
210			1,200										210

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.

Hydraulic Offset Fly Attachment Lift Capacity Charts – Optional

29,000 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

Main Boom + 10 ft Hydraulic Offset Fly (2° – 45° Offsets)

Radius (ft)	Main Boom Length (ft)													Radius (ft)
	41.1	55.0	70.0	85.0	100.0	115.0	124.7	130.0	140.0	145.0	150.0	155.0	162.0	
10	51,800	51,800												10
12	47,200	51,800	51,800											12
15	46,200	46,700	51,800	51,800										15
20	45,000	45,500	45,800	45,600	51800									20
25	44,400	44,700	45,000	44,900	44200	50,300	43,300	36,100						25
30	43,800	44,200	44,400	44,300	43600	42,700	41,200	36,100	29,800	25,400	25,300	22,300		30
35	42,100	44,100	44,000	43,800	40900	39,700	36,900	33,800	29,800	25,400	25,300	22,300		35
40	42,100	43,000	43,800	43,500	37100	36,000	33,600	31,800	29,800	25,400	25,300	22,300	19,900	40
45		41,900	43,700	43,400	34200	33,000	30,600	29,100	29,100	25,400	25,300	22,300	19,900	45
50		38,400	38,800	38,400	31400	30,200	27,900	26,700	26,700	25,400	25,000	22,300	19,900	50
55		32,600	33,100	32,700	29000	27,800	25,300	24,700	24,500	23,800	22,900	22,300	19,900	55
60			28,900	28,100	26900	25,600	23,100	22,800	22,600	22,100	21,100	20,800	19,900	60
65			25,500	24,700	23900	23,200	21,100	21,200	20,900	20,500	19,400	19,200	18,300	65
70			22,600	22,800	21500	20,100	19,300	19,700	19,300	19,000	17,900	17,700	16,900	70
75				20,200	19,900	18,700	17,200	18,400	17,900	17,600	16,800	16,700	15,900	75
80				18,000	17,800	17,400	15,200	16,900	16,500	16,700	15,600	15,500	14,700	80
85				16,200	16,000	15,900	13,400	15,100	14,600	14,900	14,200	14,400	13,600	85
90					14,700	14,300	11,700	13,500	13,000	13,300	12,600	12,900	12,600	90
95					13,200	12,800	10,300	12,500	11,600	11,800	11,200	11,500	11,200	95
100					12,000	11,600	9,100	11,200	10,300	10,600	9,900	10,200	9,900	100
105						10,400	8,000	10,100	9,200	9,500	8,800	9,100	8,800	105
110						9,400	7,000	9,100	8,200	8,400	7,800	8,100	7,800	110
115						8,500	6,100	8,200	7,300	7,500	6,900	7,100	6,900	115
120							5,200	7,400	6,400	6,700	6,100	6,300	6,100	120
125							4,500	6,600	5,700	6,000	5,300	5,600	5,300	125
130								5,900	5,000	5,300	4,600	4,900	4,700	130
135									4,400	4,700	4,000	4,300	4,000	135
140									3,800	4,100	3,500	3,700	3,500	140
145										3,600	2,900	3,200	2,900	145
150											2,400	2,700	2,500	150
155												2,200	2,000	155
160													1,500	160

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.

43,000 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

Main Boom + 10 ft Hydraulic Offset Fly (2°–45° Offsets)

Radius (ft)	Main Boom Length (ft)													Radius (ft)
	41.1	55.0	70.0	85.0	100.0	115.0	124.7	130.0	140.0	145.0	150.0	155.0	162.0	
10	51,800	51,800												10
12	47,200	51,800	51,800											12
15	46,200	46,700	51,800	51,800										15
20	45,000	45,500	45,800	45,600	51800									20
25	44,400	44,700	45,000	44,900	44200	50,300	43,300	36,100						25
30	43,800	44,200	44,400	44,300	43600	42,700	41,200	36,100	29,800	25,400	25,300	22,300		30
35	42,100	44,100	44,000	43,800	40900	39,700	36,900	33,800	29,800	25,400	25,300	22,300		35
40	42,100	43,000	43,800	43,500	37100	36,000	33,600	31,800	29,800	25,400	25,300	22,300	19,900	40
45		41,900	43,700	43,400	34200	33,000	30,600	29,100	29,100	25,400	25,300	22,300	19,900	45
50		41,700	42,600	43,400	31400	30,200	27,900	26,700	26,700	25,400	25,000	22,300	19,900	50
55		39,700	40,000	39,600	29000	27,800	25,300	24,700	24,500	23,800	22,900	22,300	19,900	55
60			34,800	34,400	26900	25,600	23,100	22,800	22,600	22,100	21,100	20,800	19,900	60
65			30,500	30,100	25000	23,700	21,100	21,200	20,900	20,500	19,400	19,200	18,300	65
70			27,000	26,600	23300	22,000	19,300	19,700	19,300	19,000	17,900	17,700	16,900	70
75				23,600	21,800	20,500	17,800	18,400	17,900	17,600	16,800	16,700	15,900	75
80				21,100	20,400	19,100	16,600	17,200	16,900	16,700	15,600	15,500	14,700	80
85				19,200	18,500	17,700	15,300	16,300	15,800	15,500	14,500	14,400	13,600	85
90					17,000	16,000	14,100	15,300	14,700	14,500	13,500	13,400	12,700	90
95					16,100	14,600	13,000	14,400	13,800	13,600	12,500	12,500	11,800	95
100					15,100	13,800	12,100	13,500	12,900	12,700	11,500	11,600	11,000	100
105						13,000	11,200	12,800	12,100	11,900	10,700	10,800	10,200	105
110						12,300	10,000	11,700	11,200	11,200	9,900	10,000	9,500	110
115						11,400	9,000	10,600	10,200	10,500	9,200	9,300	8,800	115
120							8,000	9,700	9,200	9,500	8,500	8,600	8,100	120
125							7,200	8,800	8,400	8,600	7,900	8,000	7,500	125
130								8,300	7,600	7,800	7,200	7,400	6,900	130
135									6,800	7,100	6,500	6,700	6,400	135
140									6,200	6,400	5,800	6,000	5,800	140
145										5,800	5,200	5,400	5,200	145
150											4,600	4,800	4,600	150
155												4,300	4,100	155
160													3,500	160

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.

29,000 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

162 ft Main Boom Length

Radius (ft)	31 ft Hydraulic Offset Fly			55 ft Hydraulic Offset Fly			Radius (ft)
	2° – 15°	15° – 30°	30° – 45°	2° – 15°	15° – 30°	30° – 45°	
40	14,400	14,400					40
45	14,400	14,400		10,400			45
50	14,400	14,200	14,200	10,400			50
55	14,400	14,100	13,100	10,400			55
60	14,400	13,900	12,900	9,500	9,500		60
65	14,400	13,800	12,700	9,300	9,300		65
70	14,400	13,600	12,600	9,100	9,100		70
75	14,400	13,500	12,500	9,000	7,900	7,900	75
80	13,300	13,300	12,300	8,800	7,800	6,700	80
85	12,300	12,500	12,200	8,600	7,700	6,600	85
90	11,400	11,600	11,900	8,500	7,600	6,500	90
95	10,600	10,800	11,100	8,400	7,500	6,500	95
100	9,800	10,000	10,300	8,200	7,400	6,400	100
105	9,100	9,300	9,500	8,100	7,300	6,300	105
110	8,200	8,700	8,900	7,700	7,200	6,200	110
115	7,300	7,800	8,200	7,200	7,200	6,200	115
120	6,400	6,900	7,300	6,600	6,900	6,100	120
125	5,700	6,100	6,500	6,100	6,400	6,100	125
130	5,000	5,400	5,700	5,700	5,900	6,100	130
135	4,400	4,700	5,000	5,100	5,500	5,700	135
140	3,800	4,100	4,400	4,500	5,100	5,300	140
145	3,300	3,600	3,800	3,900	4,500	4,900	145
150	2,800	3,000	3,200	3,400	3,900	4,400	150
155	2,300	2,500	2,700	3,000	3,400	3,900	155
160	1,900	2,100	2,200	2,500	3,000	3,400	160
165	1,500	1,700	1,700	2,100	2,500	2,900	165
170		1,300	1,300	1,700	2,100	2,400	170
175				1,400	1,700	2,000	175
180					1,300	1,600	180

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.

43,000 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

162 ft Main Boom Length

Radius (ft)	31 ft Hydraulic Offset Fly			55 ft Hydraulic Offset Fly			Radius (ft)
	2° – 15°	15° – 30°	30° – 45°	2° – 15°	15° – 30°	30° – 45°	
40	14,400	14,400					40
45	14,400	14,400		10,400			45
50	14,400	14,200	14,200	10,400			50
55	14,400	14,100	13,100	10,400			55
60	14,400	13,900	12,900	9,500	9,500		60
65	14,400	13,800	12,700	9,300	9,300		65
70	14,400	13,600	12,600	9,100	9,100		70
75	14,400	13,500	12,500	9,000	7,900	7,900	75
80	13,300	13,300	12,300	8,800	7,800	6,700	80
85	12,300	12,500	12,200	8,600	7,700	6,600	85
90	11,400	11,600	11,900	8,500	7,600	6,500	90
95	10,600	10,800	11,100	8,400	7,500	6,500	95
100	9,800	10,000	10,300	8,200	7,400	6,400	100
105	9,100	9,300	9,500	8,100	7,300	6,300	105
110	8,500	8,700	8,900	7,700	7,200	6,200	110
115	7,900	8,100	8,200	7,200	7,200	6,200	115
120	7,300	7,500	7,700	6,600	6,900	6,100	120
125	6,800	6,900	7,100	6,100	6,400	6,100	125
130	6,300	6,400	6,600	5,700	5,900	6,100	130
135	5,800	6,000	6,100	5,300	5,500	5,700	135
140	5,400	5,500	5,700	4,800	5,100	5,300	140
145	4,900	5,100	5,200	4,500	4,700	4,900	145
150	4,500	4,700	4,800	4,100	4,300	4,500	150
155	4,100	4,300	4,400	3,800	4,000	4,100	155
160	3,800	3,900	4,000	3,400	3,600	3,800	160
165	3,400	3,500	3,600	3,100	3,300	3,500	165
170	3,000	3,200	3,200	2,900	3,000	3,100	170
175	2,600	2,700		2,600	2,700	2,900	175
180	2,300	2,300		2,300	2,500	2,600	180
185				2,000	2,200	2,300	185
190				1,800	1,900	2,000	190
195				1,600	1,700		195
200				1,400	1,500		200
205				1,300			205

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.

29,000 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

162 ft Main Boom Length

Radius (ft)	73 ft Hydraulic Offset Fly			91 ft Hydraulic Offset Fly			109 ft Hydraulic Offset Fly			Radius (ft)
	2° – 15°	15° – 30°	30° – 45°	2° – 15°	15° – 30°	30° – 45°	2° – 15°	15° – 30°	30° – 45°	
55	8,300									55
60	8,300			6,300						60
65	8,300	8,300		6,300			4,800			65
70	8,300	8,300		6,300			4,800			70
75	8,300	8,300		6,300	6,300		4,800			75
80	8,200	7,500	7,500	6,300	6,300		4,800	4,900		80
85	8,100	7,400	7,400	6,300	6,300		4,600	4,600		85
90	8,000	7,100	6,200	6,100	5,300	5,300	4,300	4,300		90
95	7,900	6,900	6,000	5,800	5,100	5,100	4,000	3,500	3,500	95
100	7,800	6,600	5,800	5,500	4,800	4,400	3,700	3,300	3,300	100
105	7,500	6,400	5,700	5,200	4,600	4,200	3,400	3,100	2,800	105
110	7,100	6,200	5,500	4,900	4,400	4,000	3,200	2,800	2,600	110
115	6,500	5,900	5,300	4,700	4,100	3,800	3,000	2,600	2,400	115
120	6,000	5,800	5,200	4,500	3,900	3,600	2,800	2,400	2,200	120
125	5,500	5,600	5,100	4,300	3,800	3,400	2,600	2,200	2,000	125
130	5,100	5,300	4,900	4,100	3,600	3,300	2,400	2,100	1,900	130
135	4,600	4,900	4,800	3,800	3,400	3,200	2,200	1,900	1,700	135
140	4,200	4,500	4,700	3,400	3,300	3,000	2,000	1,700	1,500	140
145	3,700	4,100	4,300	3,000	3,100	2,900	1,900	1,600	1,400	145
150	3,200	3,700	4,000	2,700	2,900	2,800	1,700	1,400	1,200	150
155	2,700	3,200	3,600	2,400	2,600	2,700	1,600	1,300		155
160	2,200	2,700	3,200	2,100	2,300	2,600	1,300			160
165	1,800	2,300	2,700	1,700	2,000	2,200				165
170	1,500	1,800	2,300	1,300	1,700	1,900				170
175		1,500	1,800		1,400	1,600				175
180			1,400			1,400				180

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.

43,000 lb Counterweight – Fully Extended Outriggers – 360° Rotation
(All Capacities Are Listed In Pounds)

162 ft Main Boom Length

Radius (ft)	73 ft Hydraulic Offset Fly			91 ft Hydraulic Offset Fly			109 ft Hydraulic Offset Fly			Radius (ft)
	2° – 15°	15° – 30°	30° – 45°	2° – 15°	15° – 30°	30° – 45°	2° – 15°	15° – 30°	30° – 45°	
55	8,300									55
60	8,300			6,300						60
65	8,300	8,300		6,300			4,800			65
70	8,300	8,300		6,300			4,800			70
75	8,300	8,300		6,300	6,300		4,800			75
80	8,200	7,500	7,500	6,300	6,300		4,800	4,900		80
85	8,100	7,400	7,400	6,300	6,300		4,600	4,600		85
90	8,000	7,100	6,200	6,100	5,300	5,300	4,300	4,300		90
95	7,900	6,900	6,000	5,800	5,100	5,100	4,000	3,500	3,500	95
100	7,800	6,600	5,800	5,500	4,800	4,400	3,700	3,300	3,300	100
105	7,500	6,400	5,700	5,200	4,600	4,200	3,400	3,100	2,800	105
110	7,100	6,200	5,500	4,900	4,400	4,000	3,200	2,800	2,600	110
115	6,500	5,900	5,300	4,700	4,100	3,800	3,000	2,600	2,400	115
120	6,000	5,800	5,200	4,500	3,900	3,600	2,800	2,400	2,200	120
125	5,500	5,600	5,100	4,300	3,800	3,400	2,600	2,200	2,000	125
130	5,100	5,300	4,900	4,100	3,600	3,300	2,400	2,100	1,900	130
135	4,600	4,900	4,800	3,800	3,400	3,200	2,200	1,900	1,700	135
140	4,200	4,500	4,700	3,400	3,300	3,000	2,000	1,700	1,500	140
145	3,900	4,100	4,300	3,000	3,100	2,900	1,900	1,600	1,400	145
150	3,500	3,700	4,000	2,700	2,900	2,800	1,700	1,400	1,200	150
155	3,200	3,400	3,600	2,400	2,600	2,700	1,600	1,300		155
160	2,800	3,000	3,300	2,100	2,300	2,600	1,300			160
165	2,500	2,700	2,900	1,800	2,000	2,200				165
170	2,200	2,400	2,600	1,500	1,700	1,900				170
175	2,000	2,100	2,300	1,200	1,400	1,600				175
180	1,700	1,900	2,000			1,400				180
185	1,500	1,600	1,800							185
190	1,200	1,300	1,500							190
195			1,200							195

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.

On Tires Lift Capacity Charts – Standard

26,000 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)
	41.4	55	70	85	100	115	130	
10	92,000							10
12	71,900							12
15	60,900	51,000						15
20	47,900	51,000	32,900					20
25	37,500	41,600	32,900	26,200				25
30	26,700	30,600	32,900	26,200	21,500			30
35		23,300	25,600	26,200	21,500	17,400		35
40		18,200	20,400	21,100	21,500	17,400	13,500	40
45		14,500	16,700	17,300	17,700	17,400	13,500	45
50			13,700	14,400	14,900	14,700	13,500	50
55			11,400	12,000	12,500	12,400	12,200	55
60			9,500	10,100	10,600	10,400	10,300	60
65				8,600	9,000	8,800	8,700	65
70				7,200	7,600	7,500	7,400	70
75				6,100	6,500	6,400	6,200	75
80					5,500	5,400	5,300	80
85					4,700	4,500	4,400	85
90					3,900	3,800	3,600	90
95						3,100	3,000	95
100						2,500	2,400	100
105						2,000	1,900	105

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.

26,000 lb Counterweight -- On Tires -- Pick & Carry (Creep) -- Boom Centered Over Rear
(All Capacities Are Listed In Pounds)

Radius (ft)	Boom Length (ft)							Radius (ft)
	41.4	55	70	85	100	115	130	
10	88,800							10
12	71,900							12
15	60,900	48,500						15
20	44,300	48,500	26,800					20
25	29,700	33,600	26,800	21,500				25
30	20,900	24,600	26,800	21,500	17,600			30
35		18,600	20,800	21,500	17,600	14,300		35
40		14,500	16,600	17,300	17,600	14,300	11,700	40
45		11,300	13,300	1,400	14,500	14,300	11,700	45
50			10,800	11,500	12,000	11,800	11,700	50
55			8,800	9,500	10,000	9,800	9,700	55
60			7,200	7,900	8,300	8,200	8,100	60
65				6,500	6,900	6,800	6,700	65
70				5,400	5,800	5,600	5,500	70
75				4,400	4,800	4,700	4,500	75
80					3,900	3,800	3,700	80
85					3,200	3,000	2,900	85
90					2,600	2,400	2,300	90
95						1,800	1,700	95

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.

Hydraulic Circuit Pressure Settings

Function	Pressure (psi)
Outrigger	3,000
Pilot Control	575
Park Brake	350
Carrier Charge Circuit	325
Travel/Winch Pump Charge Circuit	380
Boom Hoist Raise/Boom Telescope Retract	4,550
Boom Telescope Extend	3,300
Boom Hoist Lower	2,000
Swing	2,200
Counterweight Removal (If Equipped)	1,000
Boom Pinning Cylinder Extend	100

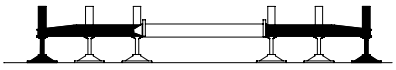
Wind Speed Restrictions

If The Wind Speed Is:	Rated Lifting Capacities Must Be Reduced By At Least:
Main Boom, 10', 31', & 55' Fly	
0–20 mph	Normal Lifting Operations (See Capacity Charts)
21–29 mph	40%
30–39 mph	70%
40 mph or greater	Crane operation must be shutdown and the boom retracted and lowered to horizontal.
73', 91', & 109' Fly	
0–16 mph	Normal Lifting Operations (See Capacity Charts)
17–23 mph	40%
24–31 mph	70%
32 mph or greater	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.
- When wind speed for normal operation is exceeded, the operator shall add 10° to all minimum boom angles due to no load stability and shall not boom down below that angle.

Backward Stability – Maximum Boom Angle





Counterweight (lb)	On Tires			Outrigger Position		
	Side	Front	Rear	Retracted	Intermediate	Full
0	71°	76°	80°	80°	80°	
14,000	62°	69°	80°	80°		
17,000	58°	65°	80°	80°		
26,000	46°	55°	80°	74°		
29,000	41°	51°	80°	71°		
43,000	0°	27°	80°	56°		

Maximum boom angle is based on retracted boom at the least stable over side position.

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