Technical Data

Specifications & Capacities

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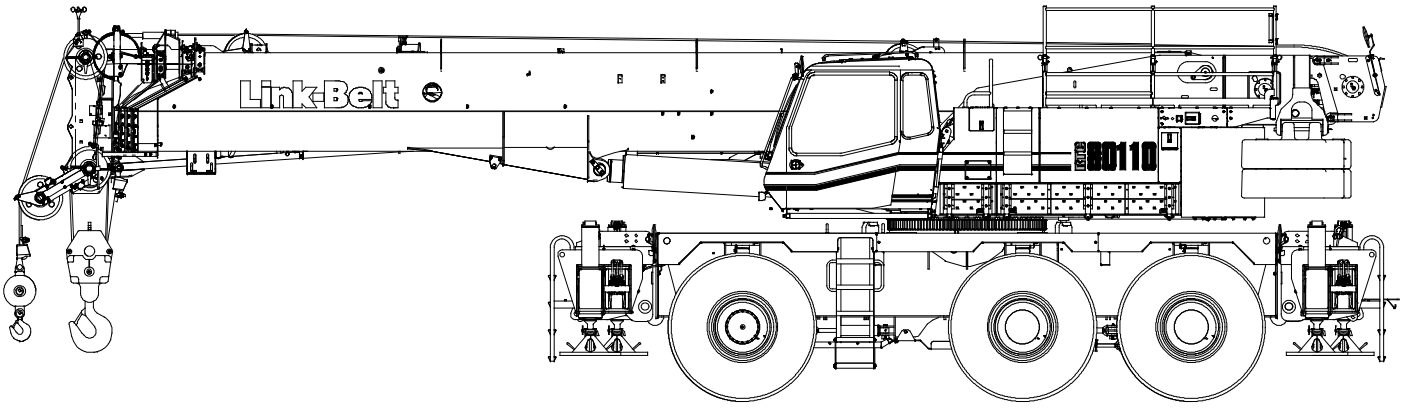
RTC 80110

Series II

Telescopic Boom Rough Terrain Crane

110 US ton

100 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 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 16.38 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 80.75°

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 (*126.98mt*) 7 sheave, quick–reeve hook block, with safety latch
- 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 (*9.4–16.8m*) two piece bi–fold lattice fly, stowable, offsettable to 2°, 15°, 30°, and 45°. Maximum tip height is 214 ft (*65.2m*). Minimum of 14,000 lb (*6 350kg*) of counterweight required.
- 10 ft, 31 ft – 55 ft (*3.0, 9.4–16.8m*) three piece bi–fold lattice fly, stowable, offsettable to 2°, 15°, 30°, and 45°. Maximum tip height is 214 ft (*65.2m*). Minimum of 14,000 lb (*6 350kg*) of counterweight required.

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 232 ft (*70.7m*). Minimum of 26,000 lb (*11 794kg*) of counterweight required.
- 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 250 ft (*76.2m*). Minimum of 26,000 lb (*11 794kg*) of counterweight required.

■ Operator's Cab and Controls

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

- Tilting cab up to 20°
- Seat belt
- Tinted and tempered glass windows
- Five way adjustable, cushioned seat with headrests, and seat belt
- Extra–large fixed front window with windshield wiper and washer
- Swing up roof window with windshield wiper and washer
- Sliding left side door with large fixed window
- Sliding right side window for ventilation
- 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
- Sun screen
- Dome light
- Cup holder
- Fire extinguisher
- Left side viewing mirror
- Two position travel swing lock

Air Conditioning – 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 park brake
- Service brake
- Turn signals
- Case filter restriction
- Charge filter restriction
- Engine overspeed
- Rear wheel offset
- Emergency steer – optional

Armrest Controls – 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 disable switch(es)
- Cab heater and A/C controls
- Throttle lock/unlock switch
- Throttle set switch
- Cab tilt switch
- Warning horn button
- Swing park brake
- Telescope override switches

Foot Controls
- Boom Telescope
- Swing brake
- Engine throttle
- Travel brake

Right Front Console – Controls and indicators for:
- Warning horn button
- Function disable switch
- Cab floodlights switch
- Console dimmer switch
- 2–12 volt accessory outlet (Switched & Unswitched)
- Emergency engine shutdown
- Windshield wiper/washer switch
- Ignition switch
- Programmable heater
- Ignition indication light
- Boom floodlights switch – optional
- Rotating beacon/strobe light switch – optional

Cab Instrumentation – Ergonomically positioned LCD display, CANBUS instrumentation for crane operation including:
- Tachometer
- Engine water temperature
- Fuel level
- Hydraulic oil temperature
- Travel circuit temperature
- Stop engine
- Check engine
- Wait to start
- High exhaust temperature light (Tier 4i/Stage IIIB engine only)
- DPF regeneration light (Tier 4i/Stage IIIB engine only)
- Regeneration disabled light (Tier 4i/Stage IIIB engine only)
- Swing park brake light
- Fine metering function set & %
- Engine speed
- Engine oil pressure
- Battery voltage
- Fuel rate (gal/hr)
- Engine load
- Third wrap indicator activation & setup – optional
- Engine Diagnostics
- Electronic Control Diagnostics
- Outrigger level indicator
- DPF regeneration inhibit switch (Tier 4i/Stage IIIB engine only)
- DPF regeneration initiate switch (Tier 4i/Stage IIIB engine only)

Diagnostic Center – Located on the left side of the front panel below the windshield
- Engine diagnostic
- RCL CANBUS diagnostic
- Crane Controller USB diagnostic
- RCL controller USB diagnostic

Link-Belt Pulse – The Link-Belt in-house designed, total crane operating system that utilizes the display as a readout and operator interface for the following systems:

- **Rated capacity limiter** – LCD graphic audio – visual warning system integrated into the dash with anti – two block and function limiter. Operating data includes:
  - Crane configuration
  - Boom length
  - Boom head height
  - Allowed load and % of allowed load
  - RCL light bar
  - Boom angle
  - Radius of load
  - Actual load
  - Wind speed
  - Highlighted unit of measurement on working screen
  - Telescope operation displayed in real time
  - Counterweight installation/removal
  - Third wrap indicator
  - Diagnostics
  - Operator settable alarms (include):
    - Maximum and minimum boom angles
    - Maximum tip height
    - Maximum boom length
    - Swing left/right positions
    - Operator defined area (imaginary plane)
  - Outrigger position sensing (Tier 4i/Stage IIIB engine only)
  - Diagnostics

Integrated Third Wrap Indicator – Optional – Link–Belt Pulse color display 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.

Integrated Third Wrap Function Kickout – Optional – Link–Belt Pulse color display visually and audibly warns the operator when the wire rope is on the first/bottom layer and provides a function kickout when the wire rope is down to the last three wraps.

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.

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

Electrical Center

- RCL by–pass switch
- Hour meter
- Battery disconnect switches
- 3 batteries provide 12 volt operation and starting

■ 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	18,985	*8 611.5*	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*
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 – optional
- 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

■ Engine

Specification	Cummins QSL	
Numbers of Cylinders	6	6
Cycle	4	4
Emissions Compliance Level:	Tier 4i/Stage IIIB(1)	Tier 3/Stage IIIA(2)
Bore and Stroke: inch (*mm*)	4.49 x 5.69 (*114 x 145*)	4.49 x 5.69 (*114 x 145*)
Piston Displacement: in^3 (*L*)	543 (*8.90*)	543 (*8.90*)
Max. Brake Horsepower: hp (*kW*)	340 (*254*) @ 1,900 rpm 320 (*239*) @ 2,100 rpm	350 (*261*) @ 1,900 rpm 325 (*242*) @ 2,100 rpm
Peak Torque: ft lb (*Nm*)	1,050 (*1 424*) @ 1,500 rpm	1,050 (*1 424*) @ 1,500 rpm
Electric/starting systems: volts	12/12	12/12
Alternator: amps	160	160
Crankcase Capacity: qt (*L*)	24 (*22.7*)	24 (*22.7*)

- Water/fuel separator w/ heater and water in fuel (WIF) sensor
- 120–volt block heater
- Grid heater – 200 amp
- (1) Can only be sold and/or operated where Tier 4i and Stage IIIB off–highway emission standards are accepted.
- (2) Can only be sold and/or operated where Tier 3 and Stage IIIA off–highway emission standards are accepted.

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 90 gal (*340.6L*) 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.
- One, single section gear pump mounted to the engine front gear train accessory drive supplies hydraulic power to the hydraulic system cooling fan motor.

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.

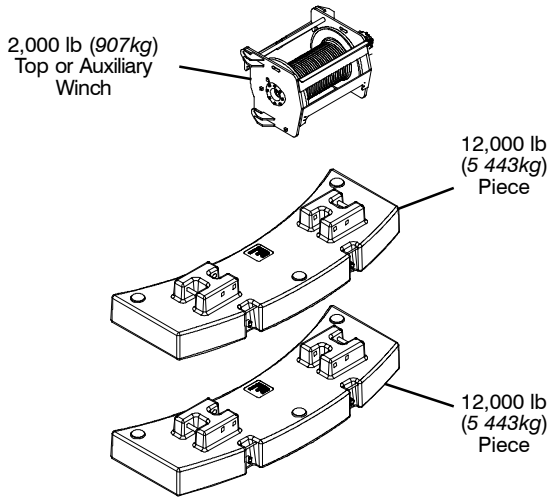
Pump Drive

All pumps except the hydraulic system, cooling fan, drive pump are mounted on the pump drive gearbox and mechanically driven by the diesel engine.

Counterweight

Total of 26,000 lb (*11 793kg*) consisting of two removable counterweights pinned to the upper and auxiliary winch/counterweight with capacities for 0 lb (*0kg*), 14,000 lb (*6 350kg*), and 26,000 lb (*11 793kg*) configurations.

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



26,000 lb (*11 793kg*)

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) 23.5R25, 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

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 (@ Peak Torque)
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 – English

Base machine with full tank of fuel and 26,000 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
	129,442	39,461	89,981	58,464	70,978
Operator in cab	250	161	89	31	219
Hydraulic outrigger pin removal	206	79	127	79	127
Remove outrigger boxes and beams	–17,139	–6,633	–10,505	–6,542	–10,597
Pintle hook, front	13	20	–7	20	–7
Pintle hook, rear	13	–10	23	–10	23
Hydraulic counterweight removal	292	–151	443	–125	167
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
Hoist drum follower – main	99	–49	148	–126	–26
Auxiliary winch with 500 ft of wire rope – winch replaces auxiliary counterweight	798	–446	1,244	–1,059	–262
Remove auxiliary winch with 500 ft of wire rope – for two winch configuration only	–2,628	1,677	–4,306	–3,698	1,069
Hoist drum follower – auxiliary	101	–75	176	153	–52
Remove 850 ft of wire rope – main winch	–1,451	544	–1,994	–1,659	208
Remove 500 ft of wire rope – auxiliary winch	–863	494	–1,356	–1,157	294
Substitute 500 ft of wire rope with 850 ft of wire rope – auxiliary winch	588	–337	925	789	–201
360° mechanical swing lock	140	57	83	50	90
Air conditioning	86	42	44	24	62
Auxiliary lifting sheave	107	311	–204	–229	336
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	2,730	4,460	–1,730	–2,362	5,092
10–31–55 ft offsettable, three piece bi–fold fly – stowed	3,359	5,876	–2,517	–3,293	6,652
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	2,016	–1,294	–1,461	2,183
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	3,072	–1,972	–2,226	3,326
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	3,940	–2,529	–2,855	4,266
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	4,886	–3,136	–3,541	5,291
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	6,685	–4,291	–4,844	7,238

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%.

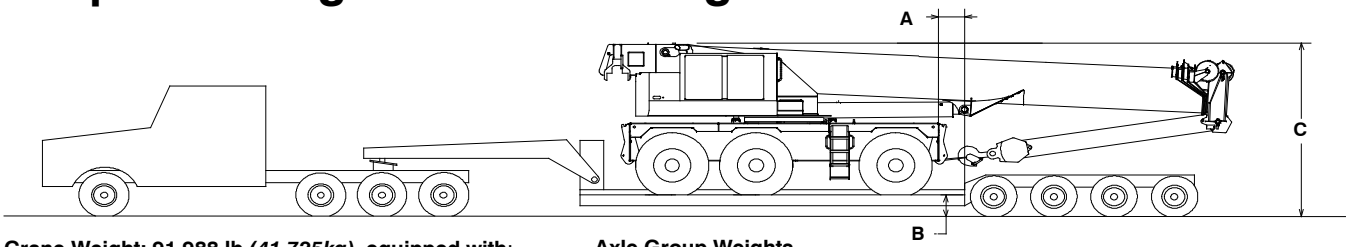
Axle Loads – Metric

Base machine with full tank of fuel and *11 793.4kg* 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*
	58 714	*17 899*	*40 815*	*26 519*	*32 195*
Operator in cab	*113*	*73*	*40*	*14*	*99*
Hydraulic outrigger pin removal	*93*	*36*	*58*	*36*	*58*
Remove outrigger boxes and beams	*–7 774*	*–3 009*	*–4 765*	*–2 967*	*–4 807*
Pintle hook, front	*6*	*9*	*–3*	*9*	*–3*
Pintle hook, rear	*6*	*–4*	*10*	*–4*	*10*
Hydraulic counterweight removal	*132*	*–68*	*201*	*–57*	*76*
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*
Hoist drum follower – main	*45*	*–22*	*67*	*57*	*–12*
Auxiliary winch with *152.4m* of wire rope – winch replaces auxiliary counterweight	*362*	*–202*	*564*	*480*	*–119*
Remove auxiliary winch with *152.48m* of wire rope – for two winch configuration only	*–1 192*	*761*	*–1 953*	*–1 677*	*485*
Hoist drum follower – auxiliary	*46*	*–34*	*80*	*69*	*–23*
Remove *259.0kg* of wire rope – main winch	*–658*	*247*	*–905*	*–752*	*94*
Remove *152.4m* of wire rope – auxiliary winch	*–391*	*224*	*–615*	*–525*	*134*
Substitute *152.4m* of wire rope with *259.0kg* of wire rope – auxiliary winch	*267*	*–153*	*419*	*358*	*–91*
360° mechanical swing lock	*64*	*26*	*37*	*23*	*41*
Air conditioning	*39*	*19*	*20*	*11*	*28*
Auxiliary lifting sheave	*49*	*141*	*–93*	*–104*	*152*
Boom floodlight	*3*	*8*	*–5*	*–6*	*9*
Fly mounting brackets to boom base for fly options	*132*	*231*	*–99*	*–129*	*261*
9.4 – 16.7m offsettable, two piece bi–fold fly – stowed	*1 238*	*2 023*	*–785*	*–1 071*	*2 309*
3.0 – 9.4 – 16.7m offsettable, three piece bi–fold fly – stowed	*1 524*	*2 665*	*–1 142*	*–1 494*	*3 017*
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*	*914*	*–587*	*–663*	*990*
31.7mt 1–sheave hook block (stowed at front/rear bumper)	*499*	*797*	*–298*	*–413*	*912*
31.7mt 1–sheave hook block (stowed at boom head)	*499*	*1 393*	*–895*	*–1 010*	*1 509*
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*	*1 787*	*–1 147*	*–1 295*	*1 935*
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*	*2 216*	*–1 422*	*–1 606*	*2 400*
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*	*3 032*	*–1 946*	*–2 197*	*3 283*

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: 91,988 lb *(41 725kg)*, 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
- 10 – 31 – 55 ft (*3.0 – 9.4 – 16.7m*) 3 piece bi – fold fly
- Winch roller
- Auxiliary arm
- Air conditioning

Drop Off Load Weight: 44,924 lb (*20 377kg*)
- 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

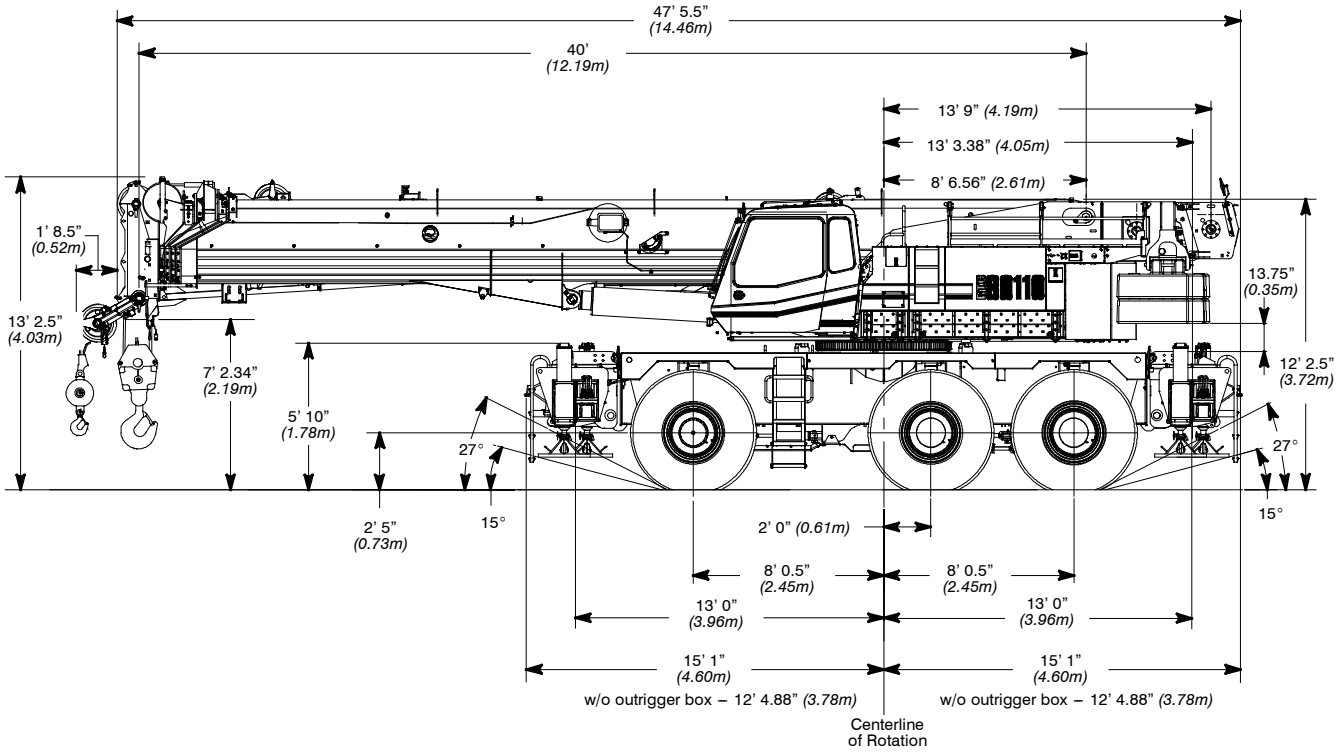
Axle Group Weights

Empty Truck Wt.	Bed Length	Steer	Drivers	Trailer	A
48,500 lb (*22 000kg*)	25 ft (*7.62m*)	12,500 lb (*5 670kg*)	58,138 lb (*26 371kg*)	69,850 lb (*31 683kg*)	5 in (*0.13m*)

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*)

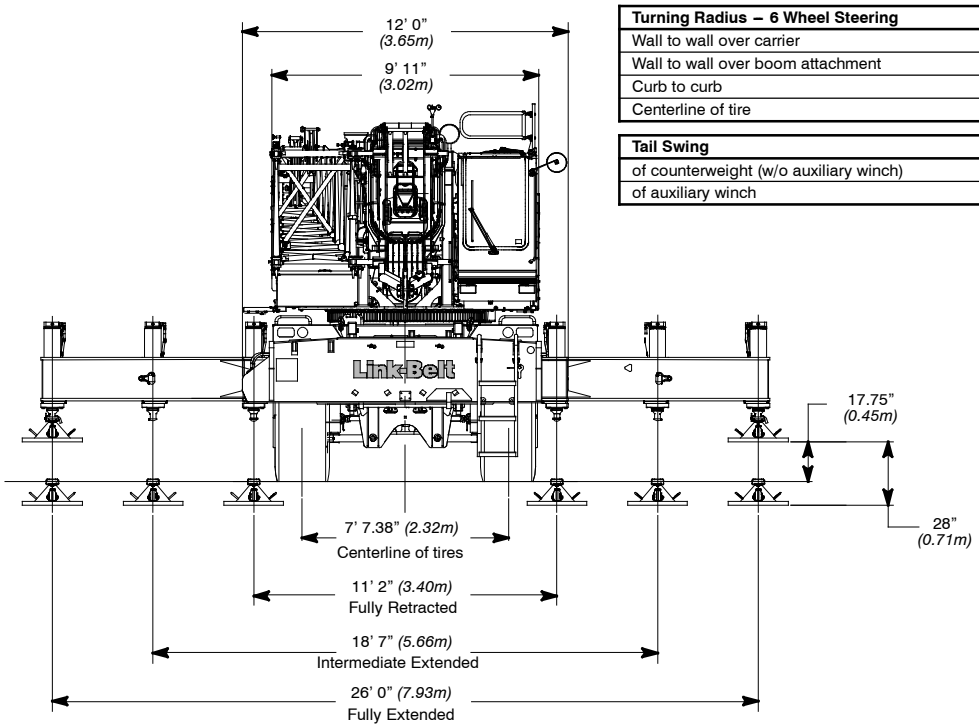
General Dimensions



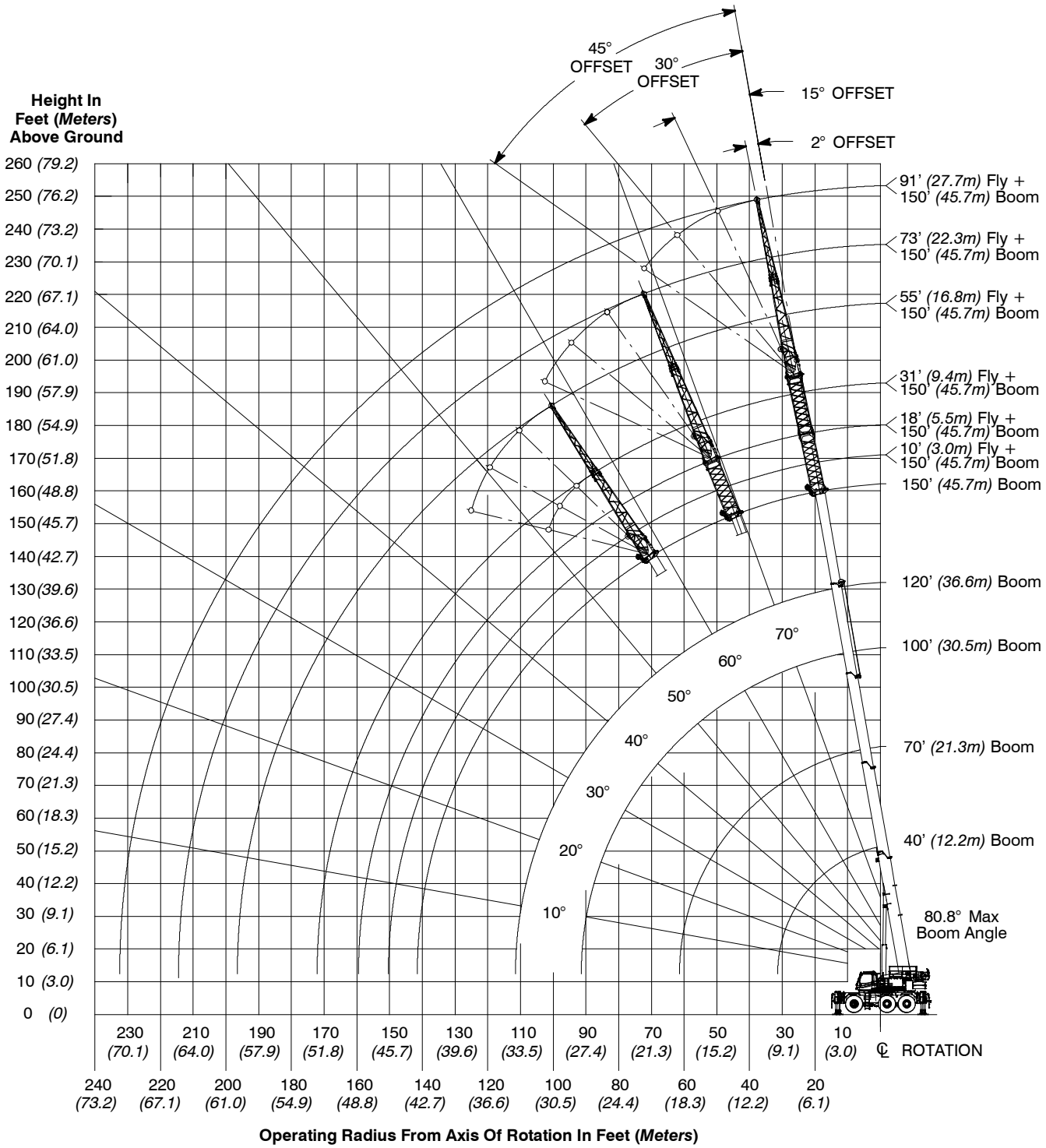
Turning Radius – 2 Wheel Steering	English	*Metric*
Wall to wall over carrier	44' 10.3"	*13.67m*
Wall to wall over boom attachment	55'	*16.76m*
Curb to curb	41' 4"	*12.59m*
Centerline of tire	40' 4"	*12.29m*

Turning Radius – 6 Wheel Steering	English	*Metric*
Wall to wall over carrier	25' 5"	*7.75m*
Wall to wall over boom attachment	37' 7.3"	*11.46m*
Curb to curb	21' 9"	*6.63m*
Centerline of tire	20' 9"	*6.32m*

Tail Swing	English	*Metric*
of counterweight (w/o auxiliary winch)	13' 9"	*4.19m*
of auxiliary winch	15' 1"	*4.60m*



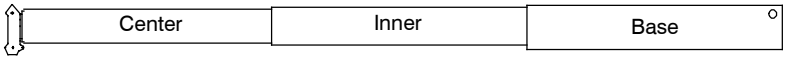
Working Range Diagram



Boom Extend Modes

Boom Mode “Amax[1]”

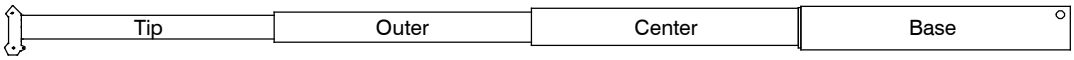
Inner and center sections telescope simultaneously



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]”

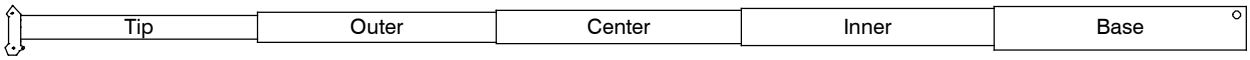
Center, outer, and tip sections telescope simultaneously



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

26,000 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	100	110	120	130	140	150	
10	220,000	107,200	105,400	101,500									10
12	187,600	107,200	105,400	101,500	101,300								12
15	164,600	107,200	105,400	101,500	96,600	81,900	56,500						15
20	123,400	107,200	105,400	101,500	80,800	73,200	65,900	56,000					20
25	95,800	95,400	94,000	87,800	69,000	62,700	60,100	56,000	58,000				25
30	77,200	76,900	76,600	76,300	59,900	55,000	53,500	56,000	51,300	48,600	38,400	30,000	30
35		63,700	63,400	63,200	53,200	53,000	53,500	51,800	45,400	43,100	38,400	30,000	35
40		52,400	52,000	52,000	53,200	52,800	52,800	46,300	40,600	38,500	37,000	30,000	40
45			43,600	44,200	44,700	42,900	43,000	41,700	36,500	34,600	33,300	30,000	45
50			36,100	36,900	37,300	37,600	35,600	35,700	33,000	31,300	30,200	29,100	50
55				31,300	31,800	32,100	30,200	30,300	30,000	28,500	27,500	26,500	55
60				26,800	27,300	27,600	27,900	25,900	25,900	25,900	25,100	24,200	60
65					23,700	24,000	24,300	23,600	22,400	22,400	22,400	22,100	65
70					20,700	21,100	21,300	21,500	19,900	19,500	19,500	19,500	70
75						18,600	18,800	19,000	18,500	17,100	17,200	17,200	75
80						16,500	16,800	17,000	17,200	15,100	15,100	15,200	80
85							14,900	15,200	15,400	13,300	13,300	13,400	85
90							13,300	13,600	13,800	11,700	11,800	11,800	90
95								12,200	12,400	10,400	10,400	10,400	95
100								10,900	11,100	9,100	9,120	9,200	100
105									10,000	8,100	8,100	8,100	105
110									9,000	7,100	7,100	7,100	110
115										6,200	6,200	6,300	115
120										5,400	5,400	5,500	120
125											4,700	4,800	125
130											4,000	4,100	130
135												3,500	135
140												2,900	140

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

26,000 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)												
	40	50	60	70	80	90	100	110	120	130	140	150	
10	52,000	52,000											10
12	48,600	49,200	52,000										12
15	47,700	48,300	48,700	52,100	52,100								15
20	46,600	47,200	47,600	47,800	47,700	47,500							20
25	46,100	46,400	46,800	46,900	46,900	46,800	46,500	50,500	51,800				25
30	46,100	46,100	46,200	46,300	46,300	46,200	46,000	45,600	44,600	42,700	31,000	24,200	30
35	46,100	46,100	46,000	45,900	45,800	45,700	45,500	44,200	41,600	39,500	31,000	24,200	35
40	46,100	46,100	46,000	45,800	45,600	45,400	45,200	40,400	37,400	35,500	31,000	24,200	40
45		43,700	43,500	43,300	43,100	43,000	42,900	37,100	33,900	32,100	30,800	24,200	45
50		36,400	36,100	36,000	35,800	35,700	35,600	34,400	30,600	29,000	27,900	24,200	50
55			30,700	30,500	30,300	30,200	30,100	30,100	27,900	26,400	25,300	24,200	55
60			26,300	26,100	26,000	25,800	25,700	25,700	25,400	24,000	23,100	22,200	60
65				22,600	22,400	22,300	22,200	22,100	22,000	22,000	21,100	20,300	65
70				19,700	19,500	19,400	19,300	19,200	19,100	19,000	19,000	18,600	70
75					17,200	17,100	17,000	16,900	16,800	16,800	16,700	16,700	75
80					15,100	15,000	14,900	14,800	14,800	14,700	14,700	14,600	80
85						13,200	13,100	13,000	13,000	12,900	12,900	12,800	85
90						11,700	11,600	11,500	11,400	11,400	11,300	11,300	90
95							10,200	10,100	10,000	10,000	9,900	9,900	95
100							9,000	8,900	8,800	8,800	8,700	8,700	100
105								7,800	7,800	7,700	7,700	7,600	105
110								6,900	6,800	6,700	6,700	6,600	110
115									6,000	5,900	5,800	5,800	115
120									5,200	5,100	5,000	5,000	120
125										4,400	4,300	4,300	125
130										3,700	3,700	3,600	130
135											3,100	3,000	135
140											2,500	2,500	140
145												2,000	145

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 -- Fully Extended Outriggers -- 360° Rotation
(All Capacities Are Listed In Pounds)

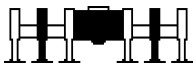
Radius (ft)	150 ft Main Boom Length								Radius (ft)
	31 ft Manual Offset Fly				55 ft Manual Offset Fly				
	2°	15°	30°	45°	2°	15°	30°	45°	
35	16,100								35
40	16,100								40
45	16,100	16,300			10,600				45
50	16,100	16,300			10,400				50
55	16,100	16,200	14,600		10,200	9,000			55
60	16,100	15,900	14,400	13,500	10,000	8,800			60
65	16,100	15,700	14,300	13,400	9,800	8,700			65
70	16,100	15,400	14,100	13,300	9,600	8,500	7,600		70
75	16,100	15,200	13,900	13,200	9,400	8,400	7,500		75
80	15,000	15,000	13,800	13,100	9,200	8,200	7,400	6,800	80
85	13,600	14,300	13,600	13,100	9,000	8,100	7,300	6,800	85
90	12,000	12,800	13,500	13,000	8,900	7,900	7,200	6,700	90
95	10,600	11,300	12,000	12,500	8,700	7,800	7,100	6,700	95
100	9,400	10,000	10,600	11,000	8,600	7,700	7,000	6,600	100
105	8,300	8,900	9,400	9,800	8,400	7,600	6,900	6,600	105
110	7,300	7,800	8,300	8,600	8,200	7,500	6,900	6,600	110
115	6,400	6,900	7,300	7,600	7,300	7,400	6,800	6,600	115
120	5,600	6,000	6,400	6,700	6,500	7,300	6,800	6,600	120
125	4,900	5,300	5,600	5,800	5,700	6,500	6,700	6,600	125
130	4,200	4,600	4,900	5,100	5,000	5,700	6,400	6,600	130
135	3,600	3,900	4,200	4,300	4,400	5,100	5,700	6,100	135
140	3,000	3,300	3,600		3,800	4,400	5,000	5,300	140
145	2,500	2,800	3,000		3,300	3,900	4,400	4,700	145
150	2,000	2,300	2,400		2,800	3,300	3,800	4,000	150
155	1,600	1,800	1,900		2,400	2,800	3,200	3,400	155
160	1,200	1,400			1,900	2,400	2,700	2,800	160
165					1,600	1,900	2,200	2,300	165
170					1,200	1,500	1,800		170
175							1,300		175
180									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.

26,000 lb Counterweight -- Fully Extended Outriggers -- 360° Rotation (All Capacities Are Listed In Pounds)									
Radius (ft)	150 ft Main Boom Length								Radius (ft)
	73 ft Manual Offset Fly				91 ft Manual Offset Fly				
	2°	15°	30°	45°	2°	15°	30°	45°	
45	8,700								45
50	8,600								50
55	8,500				6,400				55
60	8,400				6,400				60
65	8,300	7,600			6,400				65
70	8,200	7,500			6,400	6,200			70
75	8,100	7,400			6,400	6,100			75
80	8,000	7,300	6,700		6,400	6,100			80
85	7,900	7,200	6,600		6,400	6,000	5,600		85
90	7,900	7,100	6,600	6,200	6,400	6,000	5,600		90
95	7,800	7,100	6,500	6,200	6,400	5,900	5,500	5,200	95
100	7,700	7,000	6,400	6,100	6,400	5,900	5,500	5,000	100
105	7,600	6,900	6,400	6,000	6,400	5,900	5,300	4,800	105
110	7,500	6,900	6,300	5,900	6,300	5,700	5,100	4,700	110
115	7,200	6,800	6,300	5,700	6,200	5,400	4,900	4,500	115
120	6,300	6,700	6,100	5,600	5,900	5,200	4,700	4,400	120
125	5,600	6,400	6,000	5,500	5,600	5,000	4,500	4,200	125
130	4,900	5,600	5,800	5,400	4,900	4,800	4,400	4,100	130
135	4,300	5,000	5,600	5,300	4,300	4,600	4,200	4,000	135
140	3,700	4,300	5,000	5,200	3,700	4,400	4,100	3,800	140
145	3,100	3,700	4,300	4,700	3,100	3,800	3,900	3,700	145
150	2,600	3,200	3,700	4,100	2,600	3,300	3,800	3,600	150
155	2,200	2,700	3,200	3,500	2,200	2,800	3,300	3,500	155
160	1,700	2,200	2,700	2,900	1,700	2,300	2,800	3,100	160
165	1,300	1,800	2,200	2,400	1,300	1,800	2,300	2,600	165
170		1,400	1,700	1,900		1,400	1,900	2,100	170
175			1,300	1,400			1,400	1,700	175
180								1,200	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.

Rated Lifting Capacities In Pounds



Intermediate



26,000 lbs

AMAX 1

Boom Length (ft)

Radius (ft)	40.0 360°	50.0 360°	60.0 360°	70.0 360°	80.0 360°	90.0 360°	95.0 360°
10	193,400	107,200	105,400	101,500			
12	172,400	107,200	105,400	101,500	101,300		
15	147,600	107,200	105,400	101,500	96,600	81,900	
20	107,100	105,800	104,800	101,500	80,800	73,200	65,900
25	68,600	68,000	67,300	66,700	66,300	62,700	60,100
30	48,500	48,200	47,800	47,300	46,900	46,600	46,500
35		36,000	35,700	35,400	35,000	34,800	34,600
40		27,700	27,600	27,400	27,100	26,900	26,800
45			21,600	21,500	21,400	21,100	21,000
50			17,200	17,100	17,000	16,900	16,800
55				13,600	13,500	13,400	13,400
60				10,800	10,700	10,600	10,600
65					8,400	8,300	8,300
70					6,500	6,400	6,400
75						4,800	4,700
80						3,400	3,300
85							2,100

Min Angle	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Rad.	31.5	41.5	51.5	61.5	71.5	81.5	86.5
Capacity	44,200	25,700	16,000	10,000	5,900	3,000	1,800

2030010

For sales use only

Not for crane operations

Rated Lifting Capacities In Pounds



Intermediate



26,000 lbs

AMAX 2

Boom Length (ft)

Radius (ft)	40.0 360°	50.0 360°	60.0 360°	70.0 360°	80.0 360°	90.0 360°	100.0 360°	110.0 360°	122.5 360°
10	193,400	52,500	52,000	52,000					
12	172,400	52,500	52,000	52,000	53,200				
15	147,600	52,500	52,000	52,000	53,200	55,000	56,500		
20	107,100	52,500	52,000	52,000	53,200	55,000	56,500	54,800	
25	68,600	52,500	52,000	52,000	53,200	55,000	56,300	51,800	38,000
30	48,500	50,700	51,900	52,000	52,900	53,300	49,600	45,700	38,000
35		38,300	39,600	40,300	40,700	41,000	41,300	40,700	37,200
40		30,000	31,200	32,000	32,500	32,800	33,100	33,300	33,500
45			25,100	25,900	26,500	26,800	27,100	27,200	27,400
50			20,600	21,300	21,900	22,300	22,500	22,700	22,900
55				17,800	18,300	18,700	19,000	19,100	19,300
60				14,900	15,500	15,900	16,200	16,400	16,600
65					13,100	13,500	13,800	14,100	14,300
70					11,100	11,500	11,900	12,100	12,300
75						9,900	10,200	10,400	10,600
80						8,400	8,700	9,000	9,200
85							7,500	7,700	7,900
90							6,400	6,600	6,800
95								5,600	5,900
100								4,800	5,000
105									4,200
110									3,500

Min Angle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Rad.	31.5	41.5	51.5	61.5	71.5	81.5	91.5	101.5	114.0
Capacity	44,200	27,900	19,400	14,200	10,600	8,000	6,100	4,600	3,100

2030020

For sales Use Only

Not for crane operations

Rated Lifting Capacities In Pounds



Intermediate



26,000 lbs

STD

Boom Length (ft)

Radius (ft)	40.0 360°	50.0 360°	60.0 360°	70.0 360°	80.0 360°	90.0 360°	100.0 360°	110.0 360°	120.0 360°	130.0 360°
10	193,400	52,500	52,000	52,000						
12	172,400	52,500	52,000	52,000	52,000					
15	147,600	52,500	52,000	52,000	52,000	53,000	53,500			
20	107,100	52,500	52,000	52,000	52,000	53,000	53,500	56,000		
25	68,600	52,500	52,000	52,000	52,000	53,000	53,500	56,000	58,000	
30	48,500	49,900	50,500	50,800	51,000	51,100	51,200	51,300	51,300	48,600
35		37,500	38,300	38,600	38,800	38,900	39,000	39,000	39,100	39,100
40		29,200	30,000	30,500	30,700	30,800	30,900	31,000	31,000	31,000
45			24,000	24,400	24,800	24,900	25,000	25,000	25,100	25,100
50			19,400	19,900	20,200	20,400	20,500	20,600	20,600	20,600
55				16,400	16,700	17,000	17,100	17,200	17,300	17,100
60				13,500	13,900	14,100	14,300	14,400	14,500	14,500
65					11,500	11,800	11,900	12,100	12,200	12,200
70					9,500	9,800	10,000	10,100	10,200	10,300
75						8,100	8,300	8,500	8,600	8,600
80						6,700	6,900	7,000	7,100	7,200
85							5,600	5,800	5,900	6,000
90							4,600	4,700	4,800	4,900
95								3,700	3,800	3,900
100								2,900	3,000	3,100
105									2,200	2,300
110									1,600	1,600

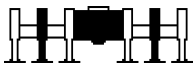
Min Angle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0
Max Rad.	31.5	41.5	51.5	61.5	71.5	81.5	91.5	101.5	111.5	114.2
Capacity	44,200	27,200	18,200	12,800	9,000	6,300	4,300	2,700	1,400	0

2030030

For sales use only

Not for crane operations

Rated Lifting Capacities In Pounds



Intermediate



26,000 lbs

STD

Radius (ft)	Boom Length (ft) 140.0 360°	150.0 360°
30	38,400	30,000
35	38,400	30,000
40	31,100	30,000
45	25,100	25,100
50	20,600	20,700
55	17,100	17,200
60	14,500	14,600
65	12,200	12,300
70	10,300	10,300
75	8,700	8,700
80	7,300	7,300
85	6,000	6,100
90	5,000	5,000
95	4,000	4,000
100	3,100	3,200
105	2,400	2,400
110	1,700	1,700
Min Angle	31.0	37.5
Max Rad.	115.0	115.0
Capacity	0	0

2030030

For sale use only

Not for crane operations

Main Boom Lift Capacity Charts – Optional (Metric)

11 793kg 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	30.5	33.5	36.6	39.6	42.7	45.72	
3	100 000	48 550	47 750	46 000									3
3.5	86 700	48 550	47 750	46 000									3.5
4	81 450	48 550	47 750	46 000	46 100								4
4.5	75 450	48 550	47 750	46 000	44 200	37 100	24 250						4.5
5	69 650	48 550	47 750	46 000	41 550	37 100	24 250						5
6	57 000	48 550	47 750	46 000	37 050	33 550	24 250	25 400					6
7	47 900	47 650	47 450	42 400	33 300	30 250	24 250	25 400					7
8	41 050	40 850	40 700	38 350	30 150	27 400	24 250	25 400	26 300				8
9	35 700	35 550	35 400	35 050	27 500	25 000	24 250	25 400	23 550	22 300	17 400	13 600	9
10		29 200	28 900	28 700	25 200	24 650	24 250	24 750	21 700	20 550	17 400	13 600	10
12		21 600	22 100	22 350	22 550	21 750	21 800	21 300	18 650	17 700	17 000	13 600	12
14			16 800	17 050	17 250	17 350	16 550	16 550	16 250	15 400	14 850	13 600	14
16				13 550	13 750	13 900	13 100	13 150	13 150	13 150	13 050	12 600	16
18				11 000	11 200	11 350	10 600	10 650	10 650	10 650	10 650	10 650	18
20					9 300	9 450	8 750	8 750	8 750	8 800	8 800	8 800	20
22						7 950	7 350	7 350	7 400	7 400	7 400	7 400	22
24						6 800	6 100	6 150	6 200	6 200	6 250	6 250	24
26							5 050	5 100	5 150	5 200	5 200	5 200	26
28								4 250	4 300	4 350	4 350	4 350	28
30								3 500	3 550	3 600	3 650	3 650	30
32									2 950	2 950	3 000	3 000	32
34										2 450	2 450	2 500	34
36										1 950	2 000	2 000	36
38											1 550	1 600	38
40											1 200	1 200	40
42												900	42

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 75% of the tipping loads and on tires do not exceed 65% of the tipping loads.

Fly Attachment Lift Capacity Charts – Optional (Metric)

11 793kg Counterweight – Fully Extended Outriggers -- 360° Rotation
(All Capacities Are Listed In Kilograms)

Radius (m)	Main Boom + 3m Manual Offset Fly (2°, 15°, 30°, & 45° Offsets) Boom Length (m)												Radius (m)
	12.19	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.72	
3	23 550	23 550											3
3.5	23 500	23 500											3.5
4	21 900	22 150	23 550										4
4.5	21 650	21 950	22 150	23 650	23 600								4.5
5	21 450	21 750	21 950	23 500	23 500								5
6	21 150	21 400	21 600	21 700	21 650	21 550							6
7	20 950	21 150	21 350	21 450	21 400	21 350							7
8	20 900	21 000	21 150	21 200	21 200	21 150	21 050	22 750	23 050				8
9	20 900	20 900	20 950	21 050	21 000	20 950	20 850	20 700	20 200	19 300	14 050	10 950	9
10	20 900	20 900	20 850	20 900	20 850	20 800	20 700	20 550	19 650	18 650	14 050	10 950	10
12	20 900	20 900	20 850	20 750	20 700	20 600	20 500	18 500	17 200	16 300	14 050	10 950	12
14		16 850	16 750	16 700	16 600	16 550	16 500	16 500	15 050	14 250	13 700	10 950	14
16			13 300	13 250	13 200	13 150	13 100	13 050	13 000	12 550	12 050	10 950	16
18			10 800	10 750	10 650	10 600	10 600	10 550	10 500	10 500	10 450	10 250	18
20				8 850	8 800	8 750	8 700	8 650	8 650	8 600	8 600	8 550	20
22					7 400	7 350	7 300	7 300	7 250	7 250	7 200	7 200	22
24					6 200	6 150	6 100	6 050	6 050	6 000	6 000	6 000	24
26						5 150	5 100	5 050	5 000	5 000	5 000	4 950	26
28							4 250	4 200	4 200	4 150	4 150	4 100	28
30							3 550	3 500	3 450	3 450	3 400	3 400	30
32								2 900	2 850	2 800	2 800	2 750	32
34									2 300	2 300	2 250	2 250	34
36									1 850	1 850	1 800	1 800	36
38										1 450	1 400	1 350	38
40										1 100	1 050	1 000	40
42											750	700	42

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 75% of the tipping loads and on tires do not exceed 65% of the tipping loads.

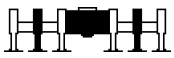
11 793kg Counterweight – Fully Extended Outriggers – 360° Rotation (All Capacities Are Listed In Kilograms)									
Radius (m)	45.7m Main Boom Length								Radius (m)
	9.4m Manual Offset Fly				16.8m Manual Offset Fly				
	2°	15°	30°	45°	2°	15°	30°	45°	
10	7 300								10
12	7 300								12
14	7 300	7 350			4 750				14
16	7 300	7 350			4 650				16
18	7 300	7 250	6 550		4 550	4 000			18
20	7 300	7 100	6 450	6 050	4 400	3 900			20
22	7 300	6 950	6 350	6 000	4 300	3 850	3 400		22
24	6 350	6 700	6 250	5 950	4 200	3 750	3 350		24
26	5 300	5 700	6 050	5 900	4 100	3 650	3 300	3 100	26
28	4 450	4 750	5 100	5 350	4 000	3 600	3 250	3 050	28
30	3 700	4 000	4 300	4 500	3 900	3 500	3 200	3 000	30
32	3 100	3 350	3 600	3 750	3 500	3 450	3 150	3 000	32
34	2 550	2 750	3 000	3 150	2 950	3 350	3 100	3 000	34
36	2 050	2 300	2 450	2 600	2 450	2 850	3 100	2 950	36
38	1 650	1 850	2 000	2 100	2 050	2 400	2 700	2 950	38
40	1 250	1 450	1 600	1 650	1 650	1 950	2 250	2 450	40
42	950	1 100	1 200	1 250	1 300	1 600	1 850	2 050	42
44	650	750	850		1 000	1 250	1 500	1 650	44
46					750	950	1 150	1 300	46
48						700	850	950	48
50							600	600	50

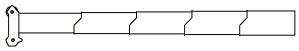
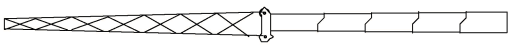
This information is not for crane operation. Operator must refer to the in–cab information for crane operation. Rated lifting capacities shown on fully extended outriggers do not exceed 75% of the tipping loads and on tires do not exceed 65% of the tipping loads.

11 793kg Counterweight – Fully Extended Outriggers – 360° Rotation (All Capacities Are Listed In Kilograms)									
Radius (m)	45.7m Main Boom Length								Radius (m)
	22.3m Manual Offset Fly				27.7m Manual Offset Fly				
	2°	15°	30°	45°	2°	15°	30°	45°	
14	3 900								14
16	3 850								16
18	3 800				2 900				18
20	3 750	3 400			2 900				20
22	3 700	3 350			2 900	2 800			22
24	3 650	3 300	3 050		2 900	2 750			24
26	3 600	3 250	3 000		2 900	2 750	2 550		26
28	3 550	3 200	2 950	2 800	2 900	2 700	2 500		28
30	3 500	3 200	2 950	2 800	2 900	2 700	2 500	2 300	30
32	3 450	3 150	2 900	2 700	2 900	2 650	2 400	2 200	32
34	2 900	3 100	2 850	2 650	2 850	2 550	2 250	2 100	34
36	2 400	2 800	2 800	2 550	2 400	2 400	2 150	2 000	36
38	1 950	2 350	2 700	2 500	1 950	2 250	2 050	1 900	38
40	1 550	1 900	2 250	2 400	1 600	1 950	1 950	1 850	40
42	1 250	1 550	1 850	2 050	1 250	1 550	1 850	1 750	42
44	900	1 200	1 500	1 650	900	1 250	1 550	1 700	44
46	650	900	1 150	1 300	650	900	1 200	1 400	46
48		600	850	950		650	900	1 050	48
50				650			600	750	50

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 75% of the tipping loads and on tires do not exceed 65% of the tipping loads.

Allowable Crane Configurations



O/R Position	Ctwt (lb)	Boom Length (ft)			Boom Length With Fly (ft)					
		"Amax1"	"Amax2"	"Std"	10' Fly	31' Fly	55' Fly	73' Fly	91' Fly	18' Fly
Full	0	40'-95'	40'-122.5'	40'-150'	"Std" 40'-150'				Prohibited	
	14,000									
	26,000									
Intermediate	0	40'-95'	40'-122.5'	40'-150'	"Std" 40'-150'			Prohibited		
	14,000									
	26,000									
Retracted	0	40'-95'	40'-100'	40'-100'	Prohibited					
	14,000		40'-122.5'	40'-120'						
	26,000									
On Tires	0		40'-80'							
	14,000		40'-122.5'							
	26,000	40'-95'		40'-120'						

Wind Speed Restrictions

If The Wind Speed Is:	Rated Capacities Must Be Reduced By At Least:
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.

* 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)	Tires			Retracted Outriggers *
	Side	Front	Rear	
26,000	46°	55°	80°	74°
14,000	61°	69°	80°	80°
0	71°	76°	80°	80°

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

For sales use
Not for crane operations

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