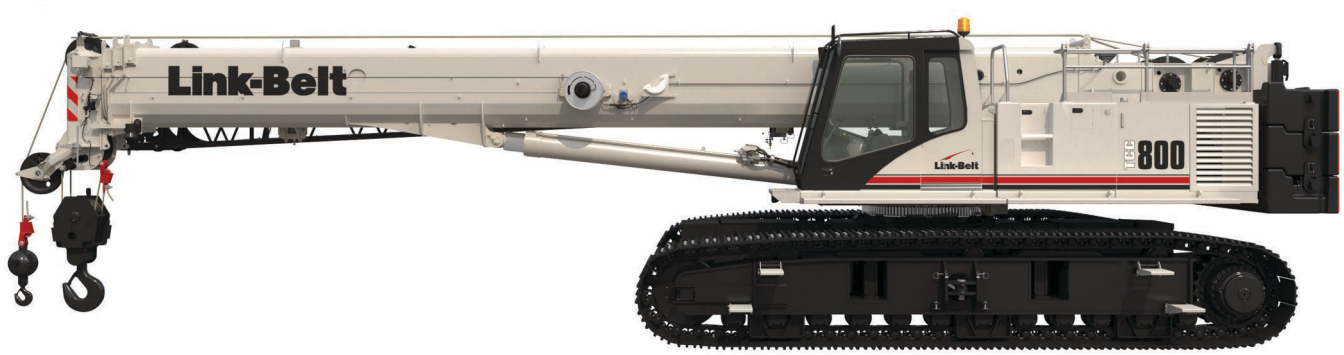
Technical Data

Specifications & Capacities

TCC 800 CE

Telescopic Crawler Crane

80 US Ton (*75 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, assembly, and operating procedures.

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Upper Structure

Frame

All welded steel frame with precision machined surfaces for mating parts.

Turntable Bearing

- Inner race is bolted to upper frame
- Outer race with external swing gear is bolted to lower frame

Engine

Engine

- Full pressure lubrication, oil filter, air cleaner, hour meter, throttle, and electric control shutdown.
- Centralized fuel and oil filter

Specification	Cummins QSB 6.7
Emissions Compliance Level:	Stage V(1)
Numbers of Cylinders	6
Cycle	4
Bore & Stroke: inch (*mm*)	4.21 x 4.88 (*107 x 124*)
Piston Displacement: in³ (*L*)	408 (*6.7*)
Max. Brake Horsepower: hp (*kW*)	232 (*173*) @ 2,000 rpm
Peak Torque: ft lb (*Nm*)	700 (*949*) @ 1,500 rpm
Electric/starting systems: volts	24
Alternator: amps	140
Crankcase Capacity: qt (*L*)	18.5 (*17.5*)

- Water/fuel separator w/ heater and water in fuel (WIF) sensor
- 120-volt block heater
- Grid heater – 112 amp
- Mechanically driven, variable speed, engine controlled.
- (1) Can only be sold and/or operated where Stage V/Tier4F-off–highway emission standards are accepted.

Fuel Tank

One 80 gal (*303L*) capacity fuel tank.

Diesel Exhaust Fluid (DEF)

One 5 gal (*18.9L*) capacity DEF tank.

Diesel Coolant Heater – Optional – A programmable engine heater that uses diesel fuel to preheat the coolant.

Engine Air Intake Shutoff – Optional – A valve that immediately blocks the engine's air supply, causing an instant shutdown.

Hydraulic System

Hydraulic Pumps

The pump arrangement is designed to provide hydraulically powered functions, positive, precise control with independent or simultaneous operation of all crane functions.

- Two variable displacement pumps provide independent control for hoist drums, boom hoist, boom extend, and right & left travel.
- Three gear type pumps are used for the swing, engine cooling fan, and hydraulic oil cooling fan.

Hydraulic Reservoir

- 150 gal capacity equipped with sight level gauge. Diffusers built in for deaeration.
- Optional hydraulic arctic temperature oil

Filtration

One 5 micron, full flow return line filter. Accessible for easy filter replacement.

Counterbalance Valves

All hoist motors are equipped with counterbalance valves to provide positive load lowering and prevent accidental load drop if the hydraulic pressure is suddenly lost.

Load Hoist Drums

Main and Auxiliary Winches

- Axial piston, (2-speed) motor driven through planetary reduction unit for positive control under all load conditions.
- Grooved lagging
- Power up/down mode of operation
- Hoist drum cable follower
- Drum rotation indicator
- Drum diameter: 16.5 in (*41.9cm*)
- Rope length:
- Main: 670 ft (*204.2m*)
- Auxiliary: 500 ft (*152.4m*) or 670 ft (*204.2m*)
- Maximum rope storage: 851 ft (*259.4m*)
- Terminator style socket and wedge

Drum Wrap indicator

- Third wrap function kickout – 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.

Swing System

Motor/Planetary – Bi-directional hydraulic swing motor mounted to a planetary reducer for 360° continuous smooth swing at 1.7 rpm

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

Swing Brake – 360°, foot operated, electric over hydraulic proportional metering value with multi disc hold feature.

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

Counterweight

Consists of a three piece design.

- One "A" counterweight, 14,000 lb (*6 350kg*)
- One "B" counterweight, 12,250 lb (*5 557kg*)
- One "C" counterweight, 12,250 lb (*5 557kg*)
- Total upper counterweight totals 38,500 lb (*17 463kg*)
- Two "A" hook & pin carbody counterweight, 3,000 lb (*1 361kg*)
- Upper hydraulic counterweight removal

Operator's Cab

Fully enclosed modular steel compartment is independently mounted and padded to protect against vibration and noise.

- All tinted/tempered safety glass
- Tilting cab 0°–20°
- Sliding entry door and rear window
- Swing up top hatch window
- Front windshield and top hatch windshield wiper
- Door and window locks
- Air Conditioner
- Hot water heater
- Defroster
- Adjustable sun visor
- Cup Holder
- Six way adjustable, cushioned seat with seat belt and storage compartments
- Fire extinguisher
- House lock lever
- Boom telescope foot pedal
- Swing brake foot pedal
- Travel foot pedals
- Throttle pedal
- Single axis controls
- Bubble type level
- Ergonomic switch layout
- Emergency–Stop Button
- Monitor for rear view, winch view, and right side cameras
- AM/FM/|NOAA Radio/Bluetooth
- First aid kit
- One amber Strobe Light
- Cab mounted external work light
- Optional dual–axis (joystick) controls
- Optional 360° rotating beacon light
- Optional External RCL Lightbar

Rated Capacity Limiter System

Link-Belt Pulse 2.0 – The Link-Belt in-house designed, total crane operating system that utilizes the 10” true color touch screen display as a readout and operator interface for the following systems:

- Engine instrumentation panel (tachometer, voltmeter, engine oil pressure, engine water temperature, fuel level, hydraulic oil temperature, hydraulic circuit pressure, hour meter, and service monitor system)
- Crane configuration
- Boom length
- Boom head height
- Allowed load and % of allowed load
- Data logging
- Boom angle
- Radius of load
- Actual load
- Internal RCL Light Bars
- Operator settable alarms with kickouts (include):
  - Maximum and minimum boom angles
  - Maximum tip height
  - Maximum boom length
  - Swing left/right positions
  - Operator defined area (imaginary plane)
- Wind speed
- Track position sensing
- Ground bearing pressure
- Drum rotation direction indication
- Third wrap indication
- Diagnostics
- List capacities for 1°, 2°, 3°, and 4°
- Live/simulated ground bearing pressure
- Backward stability
- Fine metering
- 360° pick & carry capacities on firm level ground

Telematics – Cellular-based data logging and monitoring system that provides:

- Location and operational settings
- Routine maintenance
- Crane and engine monitoring
- Diagnostic and fault codes
- Load on hook

Machinery House

- Centralized electrical and greasing locations
- Battery disconnects
- Hour meter
- Sound pad insulation on house doors
- Fall arrest anchors
- Foldable handrails
- Slip resistant walking surfaces
- Front facing work light
- 360° remote controlled high intensity floodlight

Catwalks

- Wide catwalks on left and ride side that fold up and pin for reduced travel width

Lower Structure

Carbody

Lower Frame

All welded box construction frame with precision machined surfaces for turntable bearing and rotating joint.

Side Frames

Side Frames

All welded, precision machined, steel frames can be hydraulically extended and retracted with hydraulic cylinders mounted in the lower frame.

- 14 ft (*4.27m*) extended gauge
- 11 ft 11 in (*3.63m*) intermediate gauge
- 8 ft 5 in (*2.57m*) retracted gauge
- 21 ft 1 in (*6.41m*) overall length
- 36 in (*0.91m*) wide track shoes
- Sealed (oil filled) idler and drive planetaries
- Compact travel drives
- Hydraulic self adjusting tracks

Track Rollers

- Twelve sealed (oil filled) track rollers per side frame 2nd and 3 (oil filled) upper rollers
- Heat treated, mounted on anti-friction bearings

Tracks

Heat treated, self-cleaning 36” (*914mm*) 3 bar grouser shoes and heat treated track pins with dirt seals. 62 track shoes per side.

Optional Track Pads

- Optional 36” (*914mm*) Polyurethane Clamp on Track Pads clamp over the top of the 3 bar grouser track shoes for improved ground bearing and hard surface protection.
- Optional steel flat pads

Take Up Idlers

Cast steel, heat treated, self-cleaning, mounted on sealed tapered roller bearings

V–CALC

V – CALC – Variable Confined Area Lifting Capacities that are incorporated directly into the Pulse 2.0 display allowing symmetrical or asymmetrical sideframe configurations of fully extended, intermediate, and fully retracted, with live on screen working radii, utilizing 360° charts, and swing arrest.

Travel and Steering

Each side frame contains a pilot controlled, bi-directional, axial piston motor and a planetary gear reduction unit to provide positive control under all load conditions.

- 2-speed travel with fine metering
- Individual control provides smooth, precise maneuverability including full counter-rotation.
- Spring applied, hydraulically released multiple wet-disc type brake controlled automatically
- Maximum travel speed is 2 mph (*3.2km/h*).
- Designed to 40% gradeability

Tool Boxes

Two lockable heavy duty steel design tool boxes built into the carbody counterweights.

Boom

Design

Four section, greaseless formed construction of extra high tensile steel consisting of one base section and three telescoping sections. Two plate design of each section has multiple longitudinal bends for superior strength. The first telescoping section extends independently by means of one double-acting, single stage hydraulic cylinder with integrated holding valves. The second and third telescoping sections extend proportionally by means of one double-acting, single stage cylinder with integrated holding valves and cables.

Boom

- 38.6-120.1 ft (*11.8-36.6m*) four section full power boom
- Three boom extend modes (EM1, EM2, and EM3), controlled from the operator's cab, provide superior capacities by varying the extension of the telescoping sections:
- EM1 extends to 120.1 ft (*36.6m*)
- EM2 extends to 120.1 ft (*36.6m*)
- EM3 extends to 65.8 ft (*20.0m*)
- Mechanical boom angle indicator
- Maximum tip height for each extend mode is:
  - EM1 Mode is 127 ft (*38.7m*)
  - EM2 Mode is 127 ft (*38.7m*)
  - EM3 Mode is 73 ft (*22.3m*)
- 360° remote controlled high intensity boom flood light mounted on boom base section

Boom Wear Shoes

- Wear shoes with Teflon inserts that self-lubricate the boom sections
- Top and bottom wear shoes are universal for all boom sections

Boom Head

- Five 16.5 in (*41.9cm*) root diameter nylon sheaves to handle up to ten parts of line
- Easily removable wire rope guards
- Rope dead end lugs on each side of the boom head
- Boom head is designed quick-reeve of the hook block
- Wireless Wind Speed Indicator
- Fall arrest anchors
- Optional boom tip marker light and flag

Boom Elevation

- One single acting hydraulic cylinder with integral holding valve
- Boom elevation: -3° to 80°

Auxiliary Lifting Sheave

- Single 16.5 in (*41.9cm*) root diameter nylon sheave
- Easily removable wire rope guard
- Does not affect erection of the SmartFly or use of the main head sheaves

Optional Equipment

Hook Blocks And Ball

- 8.5 ton (*7.7mt*) 1 sheave hook block with safety latch
- 27 ton (25 *mt*) 1 quick reeve hook block with safety latch
- 60 ton (*55t*) 3 sheave hook block with safety latch
- 90 ton (*82t*) 5 sheave hook block with safety latch

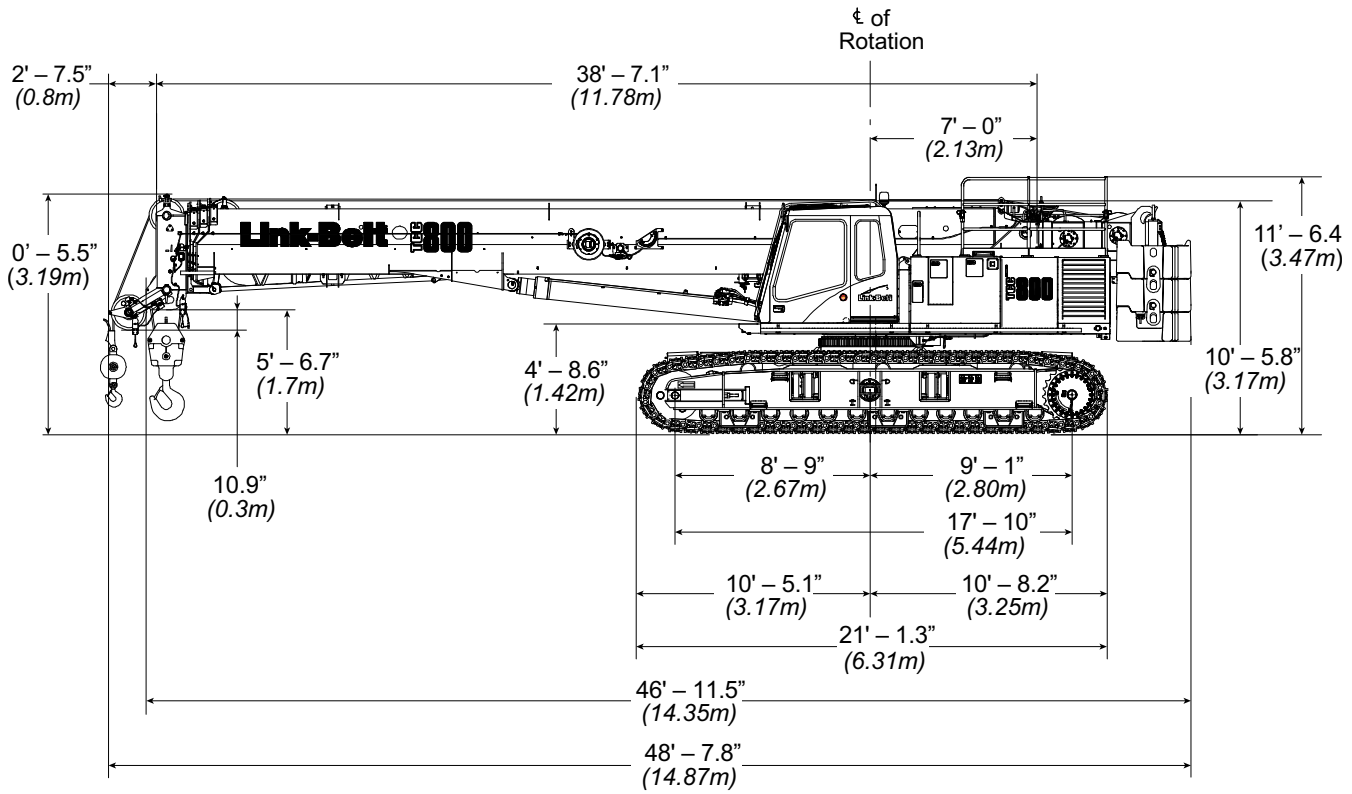
SmartFly

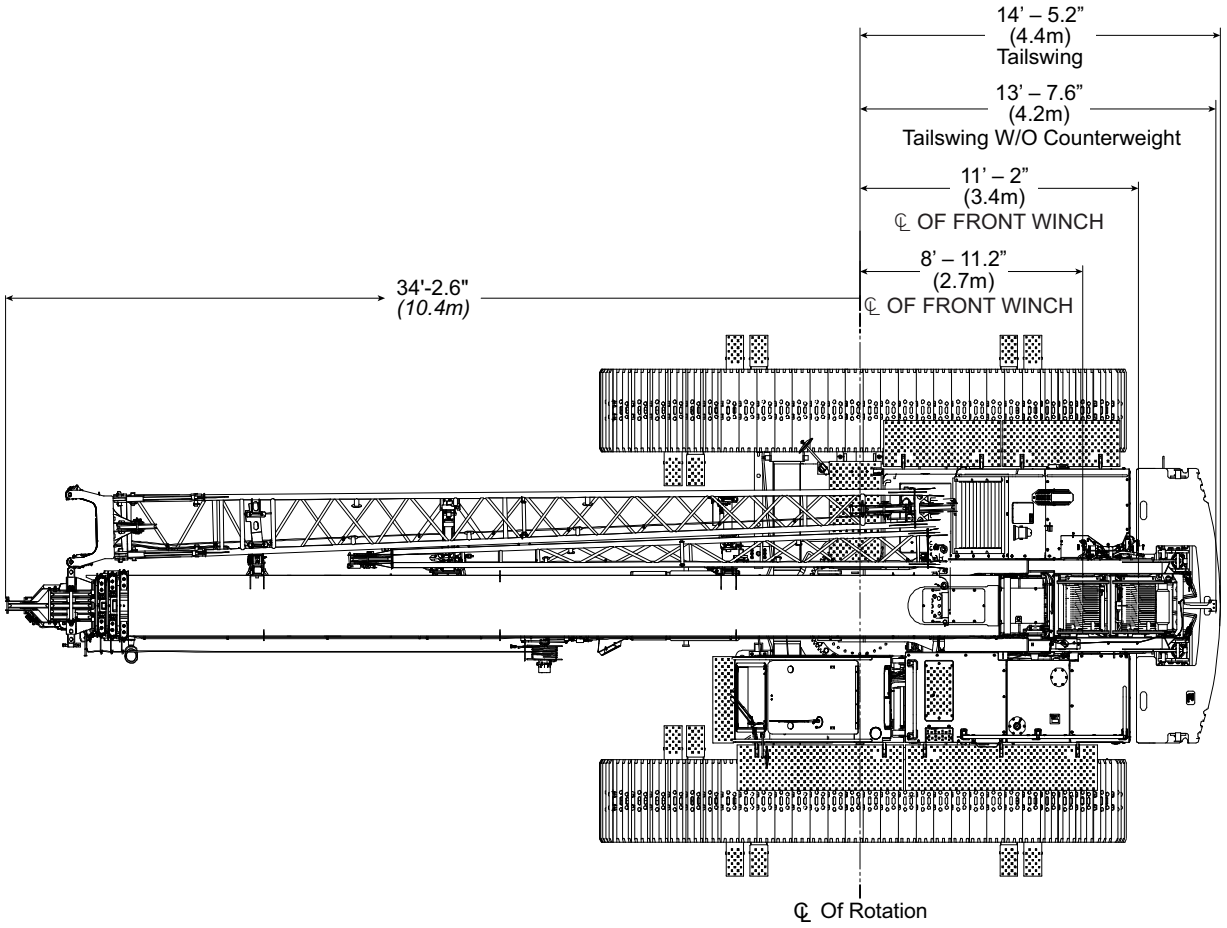
- Link–Belt SmartFly Technology – Simple one-person erection and storage technology that minimizes work at height.
- 35 ft (*10.7m*) one piece lattice SmartFly, stowable, manually offsettable to 0°, 15°, 30°, and 45°. Maximum tip height is 161.8 ft (*49.3m*).
- 35-58 ft (*10.7-17.7m*) two piece bi-fold lattice SmartFly, stowable, manually offsettable to 0°, 15°, 30°, and 45°. Maximum tip height is 184.5 ft (*56.2m*).
- No capacity deducts for stowed attachment

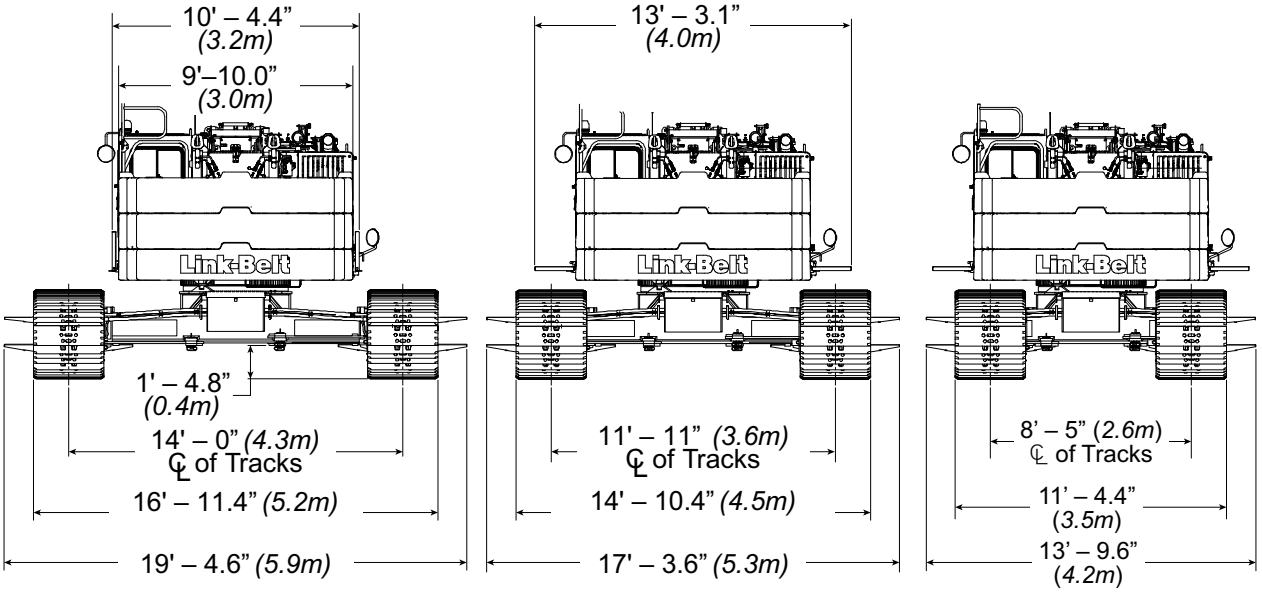
Dimensions

Base Crane

General Dimensions	English	*Metric*
Basic Boom	38.6–120.1 ft	*11.8–36.6m*
Minimum Load Radius	9 ft	*2.7m*
Maximum Boom Angle	80°	*80°*
Track Shoe Width	36 in	*0.91m*





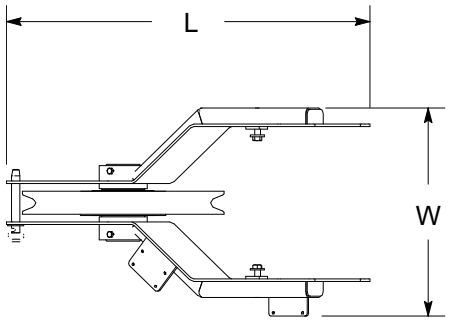


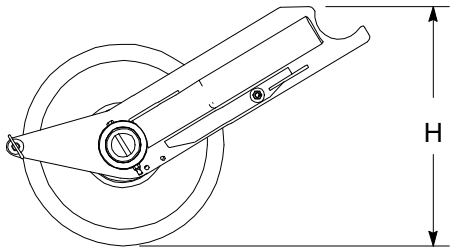
Extended Gauge **Intermediate Gauge** **Retracted Gauge**

Auxiliary Lifting Sheave

Auxiliary Lifting Sheave ❶

Length	34.4 in	*(0.87m)*
Width	19.59 in	*(0.50m)*
Height	22.53 in	*(0.57m)*
Weight	96 lb	*(44kg)*



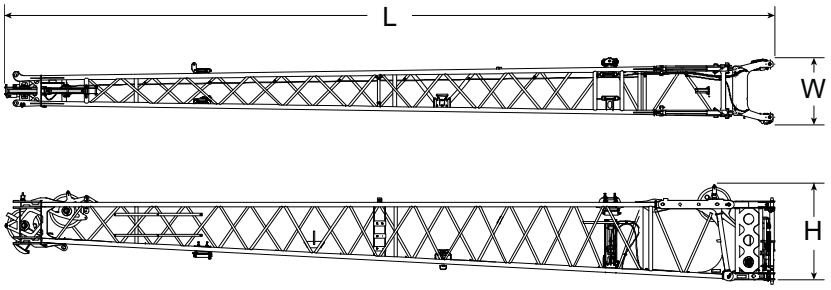


Smart Fly

35 ft (10.7m) One Piece

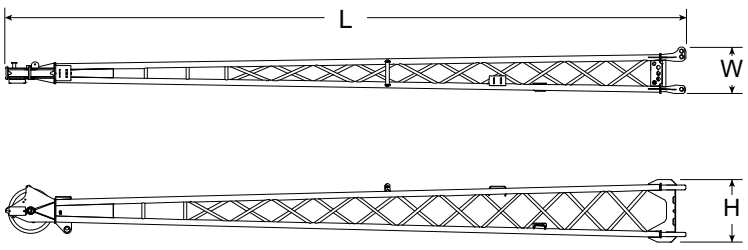
Lattice SmartFly (Base Fly) ❶

Length	35.7 ft	*(10.88m)*
Width	35.5 in	*(0.90m)*
Height	53 in	*(1.35m)*
Weight	2,026 lb	*(919kg)*



23 ft (*7.01m*) Lattice SmartFly Tip (Addition To Base SmartFly For 35 – 58 ft (*10.7 – 17.7m*) Bi-fold SmartFly)* ❶

Length	24 ft	*(7.32m)*
Width	19 in	*(0.48m)*
Height	26 in	*(0.66m)*
Weight	610 lb	*(277kg)*



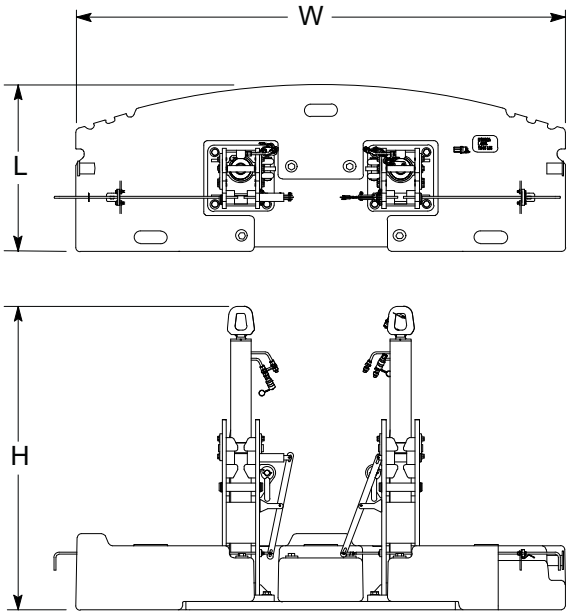
Number inside black circle "❶" = # of components

* – Optional equipment

Counterweights

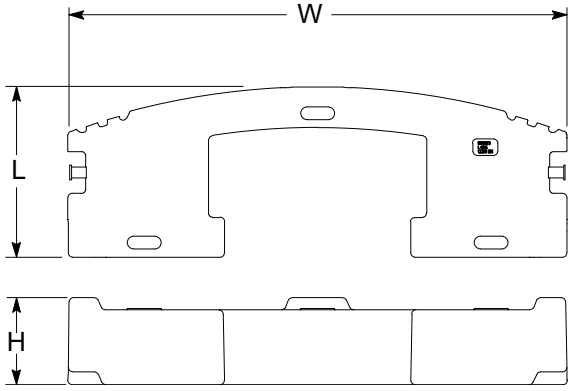
“A” Counterweight ❶

Length	40.34 in	*(1.02m)*
Width	9 ft 10 in	*(3.00m)*
Height	6 ft 1.1 in	*(1.86m)*
Weight	14,000 lb	*(6 350kg)*



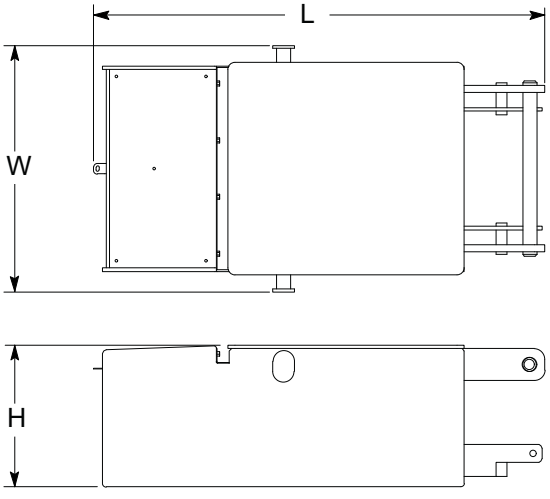
“B” & “C” Counterweights ❷

Length	40.3 in	*(1.02m)*
Width	9 ft 10 in	*(3.00m)*
Height	20.61 in	*(0.52m)*
Weight	12,250 lb	*(5 556kg)*



“A” Counterweights ❷

Length	63.62 in	*(1.62m)*
Width	34.75 in	*(0.88m)*
Height	20 in	*(0.51m)*
Weight	3,000 lb	*(1 361kg)*



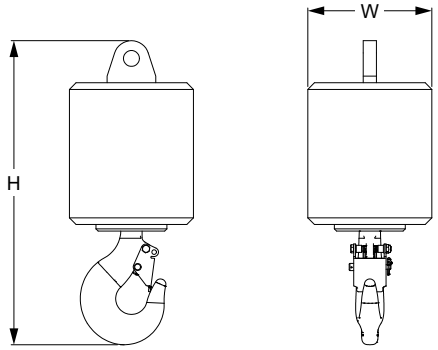
Number inside black circle “❶” = # of components

* – Optional equipment

Hook Ball

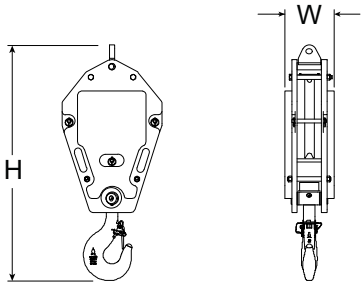
8.5 Ton (*7.7mt*) Swivel Hook Ball* ❶

Width	11.02 in	*(0.28m)*
Height	27.03 in	*(0.69m)*
Weight	359 lb	*(163kg)*



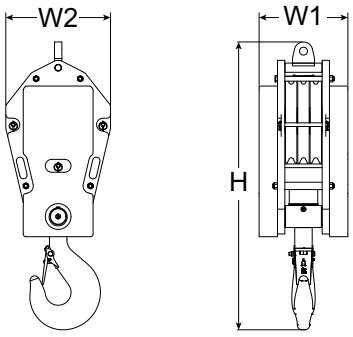
27 Ton (*25mt*) 1–Sheave Hook Block* ❶

Width	11 in	*(0.28m)*
Height	52.87 in	*(1.34m)*
Weight	800 lb	*(362.9kg)*



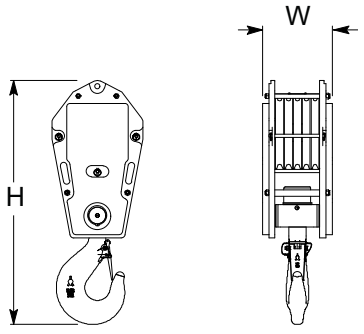
60 Ton (*55mt*) 3–Sheave Hook Block* ❶

Width	13.46 in	*(0.34m)*
Height	58.16 in	*(1.48m)*
Weight	1,150 lb	*(521.6kg)*



90 Ton (*82mt*) 5–Sheave Hook Block* ❶

Width	17.40 in	*(0.44m)*
Height	60.62 in	*(1.54m)*
Weight	1,750 lb	*(793.8kg)*



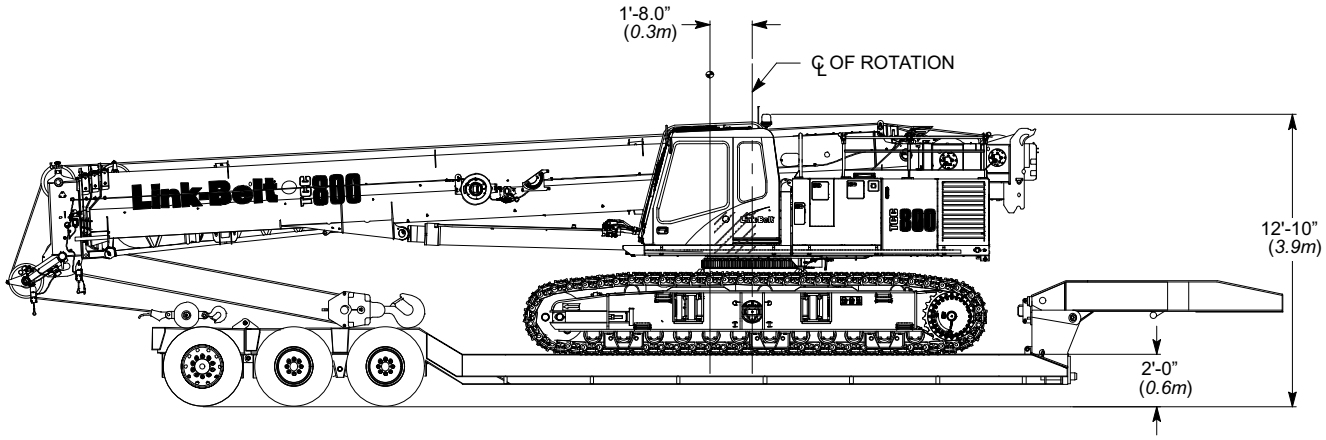
Number inside black circle "❶" = # of components

* – Optional equipment

Working Weights

Option	Description	Gross Weight lb (kg)	Ground Bearing Pressure (on soft ground) psi (kg/cm²)
1	Base crane, “ABC + A” counterweight, 2 piece carbody counterweight, 670 ft (*204.2m*) type “KC” main wire rope, 500 ft (*152.4m*) type “KC” auxiliary wire rope, 35-58 ft SmartFly, 60 ton (*54.43mt*) 3 sheave hook block, 8.5 ton (*7.7mt*) hook ball, and a 250 lb (*90.7kg*) operator.	143,919 (*65 280kg*)	*10.8 (0.76kg)*
Notes: Ground bearing pressure is based on the total weight distributed evenly over the track contact area.			

Transport Drawing



Transport Weight – 99,486 lb (45 126kg)

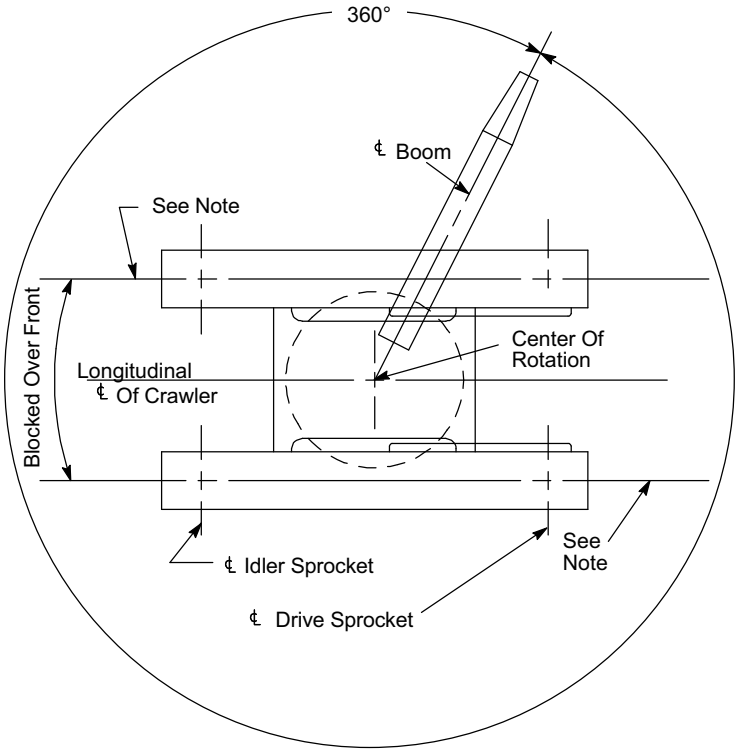
Base crane with side frames, 670 ft (*204.2m*) type “KC” main wire rope, 500 ft (*152.44m*) type “KC” auxiliary wire rope, 35-58 ft (*10.7-17.7m*) SmartFly, 60 ton (*54.43mt*) 3 sheave hook block, and 8.5 ton (*7.7mt*) hook ball.

Load Hoist Performance

Main (Rear) and Auxiliary (Front) Winches – 3/4 in (*19mm*) 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	18,183	*8 247.7*	207	*63.1*	332	*101.3*	115	*35.1*	115	*35*
2	16,716	*7 582.2*	225	*68.6*	361	*110.2*	125	*38.1*	240	*73*
3	15,469	*7 016.6*	243	*74.2*	391	*119.1*	135	*41.2*	375	*114*
4	14,395	*6 529.5*	261	*79.7*	420	*127.9*	145	*44.3*	521	*158*
5	13,460	*6 105.4*	280	*85.2*	449	*136.8*	155	*47.4*	676	*206*
6	– – –	– – –	– – –	– – –	– – –	– – –	165	*50.4*	841	*256*

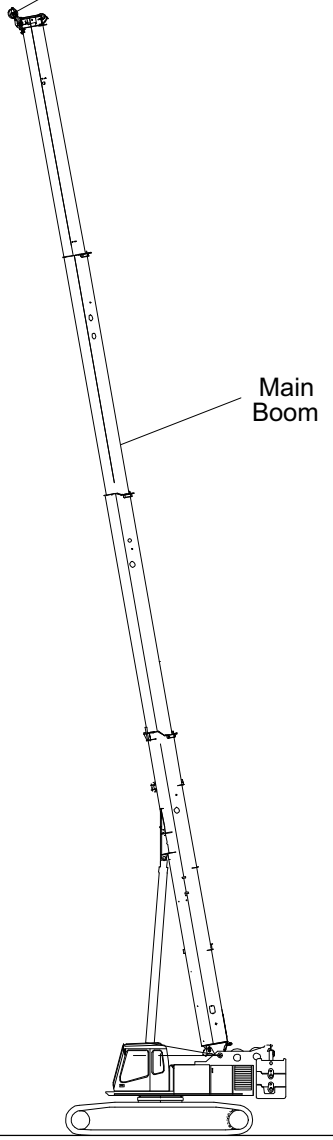
Wire Rope Application		Diameter		Type	Maximum Permissible Load	
		in	*mm*			
Main (Rear) & Auxiliary (Front) Winches	Standard	3/4	*19*	37x7 galvanized rotation resistant – right lang lay (Type KC)	16,000	*7 257.9*
	Optional	3/4	*19*	35x7 rotation resistant – right lang lay (Type CC)	17,160	*7 738.6*

Working Areas

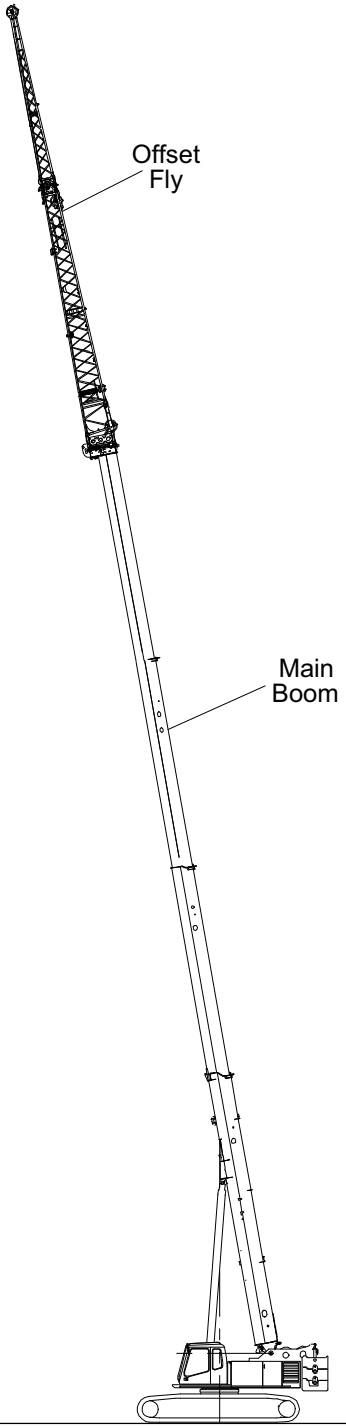


Note: These Lines Determine The Limiting Position Of Any Load For Operation Within Working Areas Indicated.

Attachments



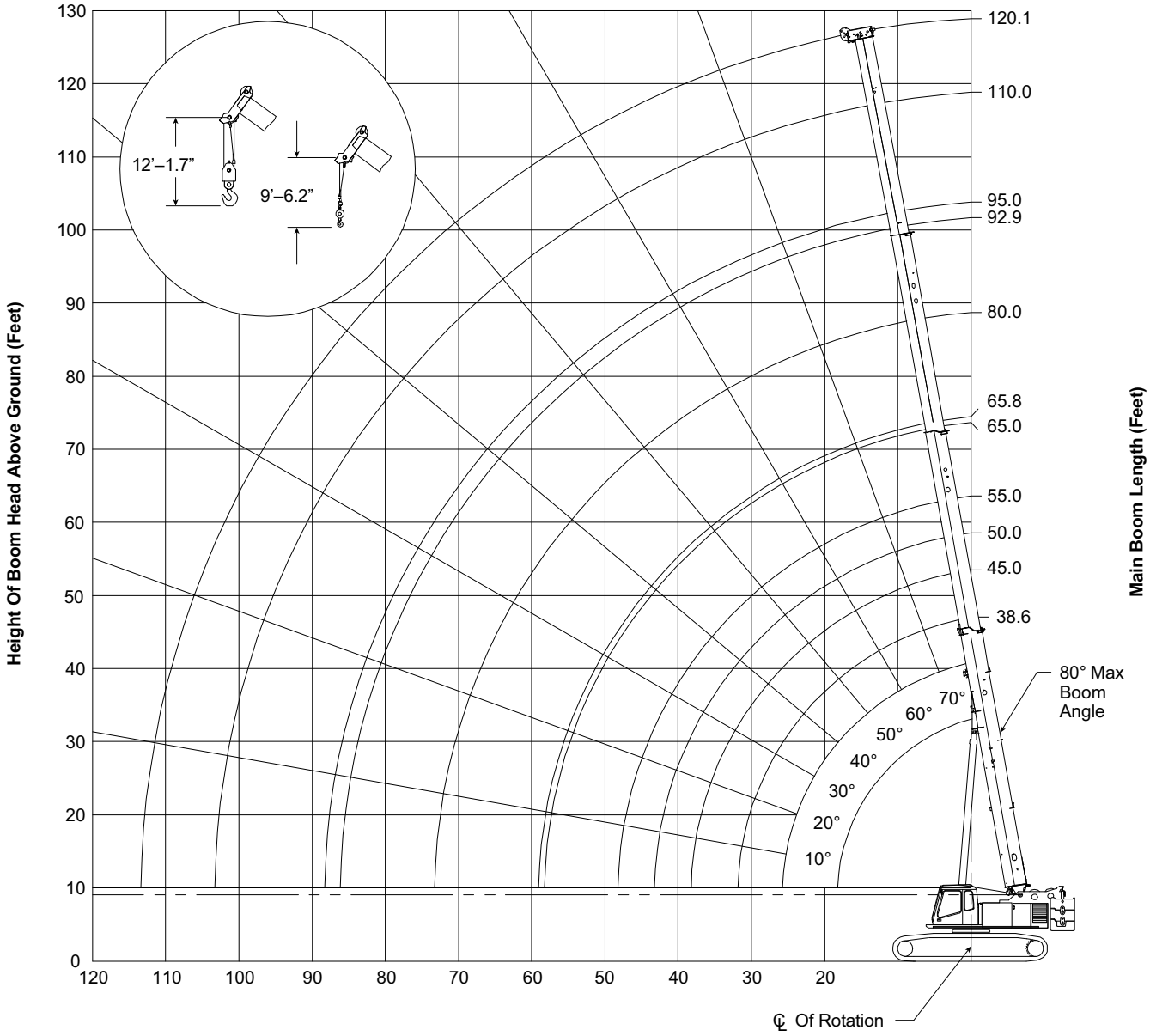
38.6-120.1 ft *(11.8-36.6m)*
Main Boom



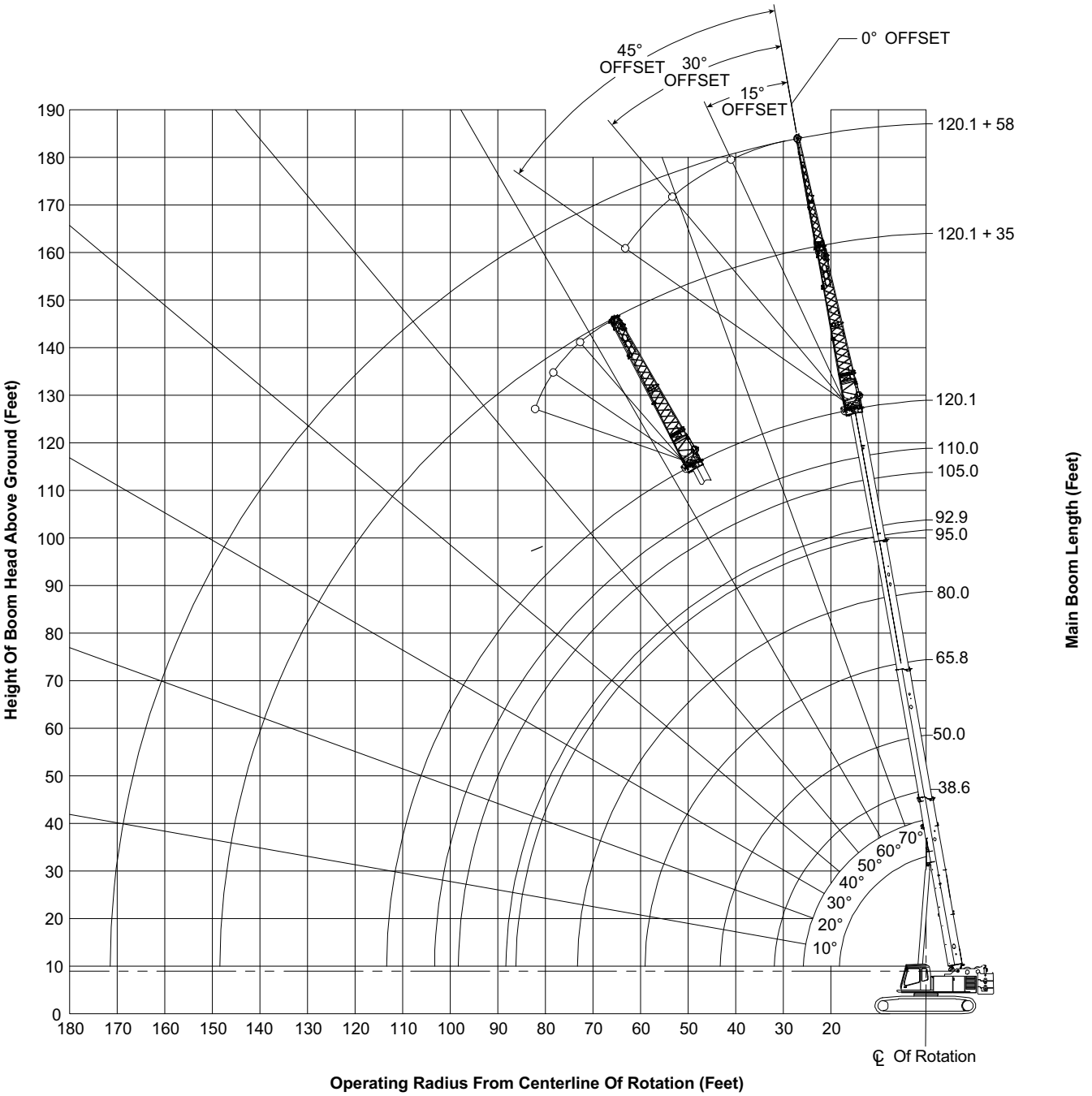
38.6-120.1 ft *(11.8-36.6m)* Main Boom
With 35-58 ft *(10.7-17.7m)* Offset Fly

Main Boom Working Range Diagrams

Standard Mode – Extended Gauge



Main Boom + Fly Working Range Diagrams



Main Boom Load Charts

Main Boom Lift Capacity Chart 360° Rotation – Side Frames Extended Position ABC+A [38,500, + 6,000 lb] Counterweight								
[All capacities are listed in kips]								
Load Radius (ft)	Boom Length (ft)							Load Radius (ft)
	38.6	45.0 – 50.0	65.0 – 65.8	80.0	92.9 – 95.0	110.0	120.1	
9.0	160.0							9.0
10.0	156.8	116.2	101.3					10.0
12.0	141.7	116.2	93.4	57.5				12.0
15.0	117.1	116.2	83.4	57.5	57.7			15.0
20.0	79.9	79.5	70.6	55.9	57.7	42.9		20.0
25.0	55.1	56.5	56.4	55.9	49.0	42.6	34.1	25.0
30.0	41.0	42.9	44.1	43.1	43.3	38.0	34.1	30.0
35.0		33.8	35.0	35.6	34.3	34.1	31.7	35.0
40.0		27.4	28.7	29.3	28.1	28.7	28.2	40.0
45.0		20.9	23.9	24.6	25.0	24.0	23.6	45.0
50.0			20.3	21.0	21.4	20.5	20.0	50.0
55.0			17.4	18.1	18.5	17.6	17.2	55.0
60.0				15.8	16.1	15.5	15.1	60.0
65.0				13.9	14.3	13.5	13.2	65.0
70.0				12.3	12.7	11.9	11.6	70.0
75.0					11.3	10.5	10.2	75.0
80.0					10.1	9.3	9.0	80.0
85.0					9.0	8.3	8.0	85.0
90.0						7.4	7.1	90.0
95.0						6.6	6.3	95.0
100.0						5.9	5.5	100.0
105.0							4.9	105.0
110.0							4.3	110.0

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Main Boom Lift Capacity Chart 360° Rotation – Side Frames Extended Position AB+0 [26,250 lb + 6,000 lb] Counterweight								
[All capacities are listed in kips]								
Load Radius (ft)	Boom Length (ft)							Load Radius (ft)
	38.6	45.0 – 50.0	65.0 – 65.8	80.0	92.9 – 95.0	110.0	120.1	
9.0	160.0							9.0
10.0	156.8	116.2	101.3					10.0
12.0	135.8	116.2	93.4	57.5				12.0
15.0	89.2	88.6	83.4	57.5	57.7			15.0
20.0	54.3	56.1	56.4	55.9	55.7	42.9		20.0
25.0	37.6	39.4	40.5	41.1	39.7	40.3	34.1	25.0
30.0	27.7	29.6	30.8	31.4	31.7	30.7	30.2	30.0
35.0		23.0	24.3	24.9	25.2	24.2	23.8	35.0
40.0		18.4	19.6	20.3	20.6	19.7	19.3	40.0
45.0		13.2	16.2	16.9	17.2	16.3	15.9	45.0
50.0			13.6	14.3	14.7	13.8	13.4	50.0
55.0			11.4	12.1	12.5	11.8	11.4	55.0
60.0				10.4	10.8	10.0	9.7	60.0
65.0				9.0	9.3	8.6	8.3	65.0
70.0				7.7	8.1	7.4	7.1	70.0
75.0					7.1	6.4	6.0	75.0
80.0					6.2	5.5	5.1	80.0
85.0					5.4	4.7	4.4	85.0
90.0						4.0	3.7	90.0
95.0						3.4	3.1	95.0
100.0						2.8	2.5	100.0
105.0							2.0	105.0
110.0							1.6	110.0

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Main Boom Lift Capacity Chart 360° Rotation – Side Frames Extended Position A+A [14,000 lb+ 6,000 lb] Counterweight								
[All capacities are listed in kips]								
Load Radius (ft)	Boom Length (ft)							Load Radius (ft)
	38.6	45.0 – 50.0	65.0 – 65.8	80.0	92.9 – 95.0	110.0	120.1	
9.0	113.2							9.0
10.0	92.3	91.5						10.0
12.0	66.5	65.9	64.6					12.0
15.0	45.7	47.4	48.5					15.0
20.0	28.3	30.1	31.2	31.7	32.0			20.0
25.0	19.2	20.9	22.1	22.7	23.0	22.0		25.0
30.0	13.6	15.3	16.5	17.1	17.4	16.4	16.0	30.0
35.0		11.5	12.7	13.4	13.7	12.8	12.4	35.0
40.0		8.7	9.9	10.6	11.0	10.1	9.7	40.0
45.0		4.9	7.8	8.5	8.9	8.1	7.7	45.0
50.0			6.1	6.8	7.2	6.5	6.1	50.0
55.0			4.8	5.5	5.9	5.1	4.8	55.0
60.0				4.4	4.8	4.1	3.7	60.0
65.0				3.5	3.9	3.2	2.8	65.0
70.0				2.7	3.1	2.4	2.1	70.0
75.0					2.4	1.7	1.4	75.0
80.0					1.9	1.2		80.0
85.0					1.4			85.0

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Main Boom + Fly Lift Capacity Chart 360° Rotation – Standard Mode – Side Frames Extended Position ABC+A [38,500, + 6,000 lb] Counterweight							
[All capacities are listed in kips]							
Load Radius (ft)	115 Boom Length (ft)						Load Radius (ft)
	28.25' Offset Fly			51' Offset Fly			
	2°	20°	40°	2°	20°	40°	
35	11.1						35
40	11.1						40
45	11.1	11.9		7.5			45
50	11.1	11.4		7.5			50
55	11.1	11.0	8.8	7.5			55
60	10.0	10.0	8.6	7.5	6.2		60
65	8.7	9.2	8.3	7.5	5.9		65
70	7.6	8.1	8.1	7.5	5.6	4.0	70
75	6.7	7.2	7.6	7.0	5.4	3.8	75
80	5.9	6.3	6.7	6.2	5.2	3.7	80
85	5.2	5.6	5.9	5.5	4.9	3.6	85
90	4.6	4.9	5.2	4.9	4.7	3.5	90
95	4.0	4.3	4.6	4.3	4.5	3.4	95
100	3.5	3.8	4.0	3.8	4.4	3.4	100
105	3.1	3.3	3.5	3.4	3.9	3.3	105
110	2.7	2.9	3.0	3.0	3.4	3.2	110
115	2.3	2.5	2.6	2.6	3.0	3.2	115
120	2.0	2.2		2.3	2.7	3.0	120
125	1.7	1.8		2.0	2.3	2.6	125
130	1.4	1.5		1.7	2.0	2.2	130
135	1.2			1.5	1.7	1.9	135
140				1.3	1.5	1.6	140
145				1.0	1.2		145
150					1.0		150

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Main Boom Load Charts – Metric

Main Boom Lift Capacity Chart 360° Rotation – Side Frames Extended Position ABC+A [17.5t +2.8t] Counterweight								
[All capacities are listed in metric tons (t)]								
Load Radius m	Boom Length (m)							Load Radius m
	11.76	13.73 – 16.76	19.81 – 20.04	24.38	28.33 – 38.96	33.53	36.6	
2.5	75.0							2.5
3.0	71.8	52.7	46.3					3.0
3.5	66.0	52.7	43.3					3.5
4.0	60.9	52.7	40.6	26.1				4.0
4.5	54.0	52.3	38.2	26.1	26.2			4.5
5.0	48.4	48.2	36.0	26.1	26.2			5.0
6.0	37.3	37.1	32.3	25.4	25.5	19.5		6.0
7.0	28.8	28.7	28.2	25.4	23.4	19.5		7.0
8.0	23.1	24.0	24.5	24.0	21.6	18.8	15.5	8.0
9.0	19.1	20.0	20.5	20.1	20.0	17.4	15.5	9.0
10.0		17.0	17.5	17.2	17.2	16.3	15.0	10.0
12.0		12.8	13.3	13.6	13.1	13.3	13.1	12.0
14.0		9.1	10.5	10.9	11.0	10.6	10.4	14.0
16.0			8.5	8.9	9.0	8.6	8.4	16.0
18.0				7.4	7.5	7.2	7.0	18.0
20.0				6.2	6.4	6.1	5.9	20.0
22.0				5.3	5.5	5.1	5.0	22.0
24.0					4.7	4.4	4.2	24.0
26.0					4.1	3.8	3.6	26.0
28.0						3.2	3.1	28.0
30.0						2.8	2.6	30.0
32.0							2.2	32.0
34.0							2.0	34.0

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Main Boom Lift Capacity Chart 360° Rotation – Side Frames Extended Position AB+A [11.9t + 2.8t] Counterweight								
[All capacities are listed in metric tons (t)]								
Load Radius m	Boom Length (m)							Load Radius m
	11.76	13.73 – 16.76	19.81 – 20.04	24.38	28.33 – 38.96	33.53	36.6	
2.5	75.0							2.5
3.0	71.8	52.7						3.0
3.5	64.4	52.7	43.3	26.1				3.5
4.0	52.0	51.7	40.6	26.1				4.0
4.5	41.7	41.4	38.2	26.1	23.6			4.5
5.0	34.6	34.3	33.7	26.1	26.2			5.0
6.0	25.3	25.6	25.6	25.4	25.5	19.5		6.0
7.0	19.6	20.5	21.0	21.2	20.6	19.5	15.4	7.0
8.0	15.7	16.6	17.1	17.3	17.2	17.0	15.4	8.0
9.0	12.9	13.8	14.3	14.5	14.7	14.3	14.1	9.0
10.0		11.6	12.2	12.5	12.6	12.2	12.0	10.0
12.0		8.6	9.2	9.5	9.6	9.2	9.0	12.0
14.0		5.8	7.1	7.4	7.6	7.2	7.1	14.0
16.0			5.7	6.0	6.2	5.8	5.6	16.0
18.0				4.9	5.1	4.7	4.5	18.0
20.0				4.0	4.2	3.9	3.7	20.0
22.0				3.3	3.5	3.2	3.0	22.0
24.0					2.9	2.6	2.4	24.0
26.0					2.4	2.1	2.0	26.0
28.0						1.7	1.6	28.0
30.0						1.4	1.2	30.0
32.0							0.9	32.0
34.0							0.7	34.0

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Main Boom Lift Capacity Chart 360° Rotation – Side Frames Extended Position A+A [6.3t +2.8t] Counterweight								
[All capacities are listed in metric tons (t)]								
Load Radius m	Boom Length (m)							Load Radius m
	11.76	13.73 – 16.76	19.81 – 20.04	24.38	28.33 – 38.96	33.53	36.6	
3.0	43.2	42.8						3.0
3.5	32.6	32.3	25.6					3.5
4.0	25.9	25.7	25.6					4.0
4.5	21.3	22.0	22.6					4.5
5.0	17.9	18.7	19.2	19.5				5.0
6.0	13.2	14.0	14.5	14.7	14.9			6.0
7.0	10.1	10.9	11.5	11.7	11.9			7.0
8.0	8.0	8.8	9.3	9.6	9.7	9.3	9.0	8.0
9.0	6.4	7.2	7.7	8.0	8.1	7.7	7.5	9.0
10.0		5.9	6.5	6.8	6.9	6.5	6.3	10.0
12.0		4.1	4.6	5.0	5.1	4.7	4.6	12.0
14.0		2.1	3.4	3.7	3.9	3.5	3.4	14.0
16.0			2.5	2.8	3.0	2.6	2.5	16.0
18.0				2.1	2.3	1.9	1.8	18.0
20.0				1.6	1.7	1.4	1.3	20.0
22.0				1.1	1.3	1.0	0.8	22.0
24.0					0.9	0.6	0.5	24.0
26.0					0.6			26.0

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Main Boom + Fly Lift Capacity Chart 360° Rotation – Standard Mode – Side Frames Extended Position ABC+A [17.5t + 2.8t] Counterweight									
[All capacities are listed in metric tons (t)]									
Load Radius (ft)	115 Boom Length (ft)								Load Radius (ft)
	10.7m Offset Fly				17.7m Offset Fly				
	0°	15°	30°	45°	0°	15°	30°	45°	
9.0	7.6								9.0
10.0	7.6				4.3				10.0
12.0	7.6	6.6			4.2				12.0
14.0	7.6	6.4	5.4		4.1				14.0
16.0	7.4	6.1	5.3	4.7	4.0	3.5			16.0
18.0	7.1	5.9	5.1	4.6	3.8	3.4			18.0
20.0	6.1	5.7	5.0	4.5	3.7	3.3	3.0		20.0
22.0	5.2	5.5	4.9	4.4	3.6	3.2	2.9	2.5	22.0
24.0	4.4	4.7	4.7	4.3	3.5	3.1	2.8	2.5	24.0
26.0	3.8	4.0	4.2	4.2	3.4	3.1	2.7	2.4	26.0
28.0	3.3	3.5	3.6	3.8	3.3	3.0	2.6	2.4	28.0
30.0	2.8	3.0	3.1	3.2	3.0	2.9	2.6	2.3	30.0
32.0	2.4	2.6	2.7	2.8	2.6	2.8	2.5	2.3	32.0
34.0	2.1	2.2	2.3	2.4	2.3	2.5	2.4	2.2	34.0
36.0	1.8	1.9	2.0	2.0	2.0	2.2	2.3	2.2	36.0
38.0	1.5	1.6	1.7		1.7	1.9	2.1	2.2	38.0
40.0	1.3	1.4	1.4		1.5	1.7	1.8	1.9	40.0
42.0	1.1	1.2			1.3	1.4	1.6	1.6	42.0
44.0	0.9	0.9			1.1	1.2	1.3		44.0
46.0					0.9	1.0	1.1		46.0
48.0					0.8	0.9	0.9		48.0
50.0					0.6	0.7			50.0
52.0					0.5				52.0

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