

Technical Data

Specifications & Capacities

TCC 1200

Telescopic Crawler Crane 120 Ton
(110 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 QSL9
Emissions Compliance Level:	Tier 4f/ Stage IV ⁽¹⁾
Numbers of Cylinders	6
Cycle	4
Bore & Stroke: inch (mm)	4.49 x 5.69 (114 x 145)
Piston Displacement: in ³ (L)	543 (8.90)
Max. Brake Horsepower: hp (kW)	320 (239) @ 1,800 rpm
Peak Torque: ft lb (Nm)	1,050 (1 424) @ 1,500 rpm
Electric/starting systems: volts	12/12
Alternator: amps	160
Crankcase Capacity: qt (L)	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 4f and Stage IV off-high way emission standards are accepted.	

Fuel Tank

One 110 gal (416L) capacity fuel tank.

Diesel Exhaust Fluid (DEF)

One 10 gal (37.9L) capacity DEF tank

Diesel Coolant Heater – Optional –

A programmable engine heater that uses diesel fuel to preheat the coolant.

Hydraulic System

Hydraulic Pumps

The pump arrangement is designed to provide hydraulically powered functions allowing 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.
- Two gear type pumps are used for the swing, counterweight removal, track extend/retract, tilting cab, jacks, operator's controls, and hydraulic oil cooling fan.

Hydraulic Reservoir

- 250 gal (946L) capacity equipped with sight level gauge. Diffusers built in for deaeration.
- Optional hydraulic arctic temperature oil

Filtration

One 10 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 Optional Auxiliary Winches

- Axial piston, full and half displacement (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 – standard
- Drum rotation indicator
- Drum diameter: 15 in (38.1cm)
- Rope length:
 - Main: 850 ft (259.1m)
 - Auxiliary: 500 ft (152.4m)
- Maximum rope storage: 951 ft (290m)
- Terminator style socket and wedge

Integrated Third Wrap Indicator – 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 – 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

Dual Swing Drives

Motor/Planetary – Bi-directional hydraulic swing motor mounted to a planetary reducer for 360° continuous smooth swing at 1.6 rpm

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

Swing Brake – 360°, foot operated, hydraulic applied disc brake mounted to the planetary reducer

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

Counterweight

Consists of a three piece design.

- One "A" counterweight, 19,000 lb (8 618kg)
- One "B" counterweight, 16,000 lb (7 257kg)
- One "C" counterweight, 16,000 lb (7 257kg)
- Total upper counterweights totals, 51,000 lb (23 133kg) each
- Two "A" carbody counterweights, 12,500 lb (5 670kg) each
- 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 with removable hand levers
- 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 light bar

Crane Control Display

Ergonomically positioned LCD screen displaying the crane's operation including:

- Tachometer
- Throttle lock
- Engine water temperature
- Fuel level
- Fuel rate (gal/hr)
- DEF level
- Engine oil pressure
- Hydraulic oil temperature
- Battery voltage
- Wait to start
- Maintenance intervals

Rated Capacity Limiter System

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:

- Crane configuration
- Boom length
- Boom head height
- Allowed load and % of allowed load
- Data logging
- Live/Simulated Ground Bearing Pressure Readings
- List capacities for 1°, 2°, 3°, and 4°
- 360° pick & carry capacities on firm level ground
- Wind speed
- Backward Stability
- Fine metering
- Diagnostics
- Boom angle
- Radius of load
- Actual load
- Operator settable alarms with kickouts (include):
 - Maximum and minimum boom angles
 - Maximum tip height
 - Maximum boom length
 - Swing left/right positions
 - Maximum load radius
 - Operator defined area (imaginary plane)

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

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

Machinery House

- Centralized electrical and greasing locations
- Battery disconnects
- Hour meter
- Sound pad insulation on house doors
- 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 axles beams.

Extendable & retractable axle beam controlled by a hydraulic cylinder mounted inside the beams.

Side Frames

Side Frames

All welded, precision machined, steel frames can be extended and retracted with hydraulic cylinders.

- 15 ft 2.2 in (4.63m) extended gauge
- 12 ft 8.7 in (3.88m) intermediate gauge
- 8 ft 11.6 in (2.73m) retracted gauge
- 23 ft 4.2 in (7.11m) overall length
- 36 in (0.91m) wide track shoes
- Sealed (oil filled) idler and drive planetaries
- 2 speed travel drives
- Hydraulic self adjusting tracks

Track Rollers

- Eleven sealed (oil filled) bottom track rollers per side frame
- Three sealed (oil filled) top track rollers per side frame
- Heat treated, mounted on anti-friction bearings

Tracks

Heat treated, self-cleaning 36" (914mm) 3 bar grouser shoes and heat treated track pins. 65 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.
- Optional steel flat pads

Take Up Idlers

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

CALC

Confined Area Lifting Capacities that are incorporated directly into the Pulse display allowing sideframe configurations of fully extended, intermediate, and fully retracted with live on screen working radius while utilizing 360° load charts

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
- 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

Jack System

System contains four hydraulic cylinders individually mounted on swing-out beams.

- Individual jack cylinders are operated by remote control, or can be operated by carbody-mounted controls.
- Minimum height of carbody when resting on pontoons is 14.7 in (37.4cm).
- Maximum height of carbody with jack fully extended is 45.2 in (114.8cm).

Tool Boxes

Optional two lockable heavy duty steel design tool boxes that bolt onto the carbody counterweights.

Boom

Design

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

Boom

- 40-150 ft (12.2-45.7m) five section full power boom
- Three boom extend modes, controlled from the operator's cab, provide superior capacities by varying the extension of the telescoping sections:
 - Standard mode is the full power, synchronized mode of telescoping all sections proportionally
 - A-max1 mode (or mode 'A1') extends only the inner and center sections to 95 ft (29m) offering increased capacities for in-close, maximum capacity picks
 - A-max2 mode (or mode 'A2') tip, outer and center sections extend to 122.5 ft (37.34m) offering maximum stability
- Mechanical boom angle indicator
- Maximum tip height for each extend mode is:
 - Standard is 159 ft 6 in (48.6m)
 - A-max1 is 105 ft 6 in (32.1m)
 - A-max2 is 132 ft 6 in (40.3m)
- 360° remote controlled high intensity boom floodlight mounted on boom base section

Boom Wear Pads

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

Boom Head

- Six 16.5 in (41.9cm) root diameter nylon sheaves to handle up to 12 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
- Optional boom tip marker light & flag
- Wireless wind speed indicator

Boom Elevation

- One double acting hydraulic cylinder with integral holding valve
- Boom elevation: -2.5° 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 fly or use of the main head sheaves

Optional Equipment

Hook Blocks And Ball

- 12 ton (10.9mt) swivel and non-swivel hook balls with safety latch
- 40 ton (36.2mt) 1 sheave quick-reeve hook block with safety latch
- 75 ton (68mt) 3 sheave quick-reeve hook block with safety latch
- 90 ton (81.7mt) 5 sheave quick-reeve hook block with safety latch
- 120 ton (108.9mt) 5 sheave quick-reeve hook block with safety latch

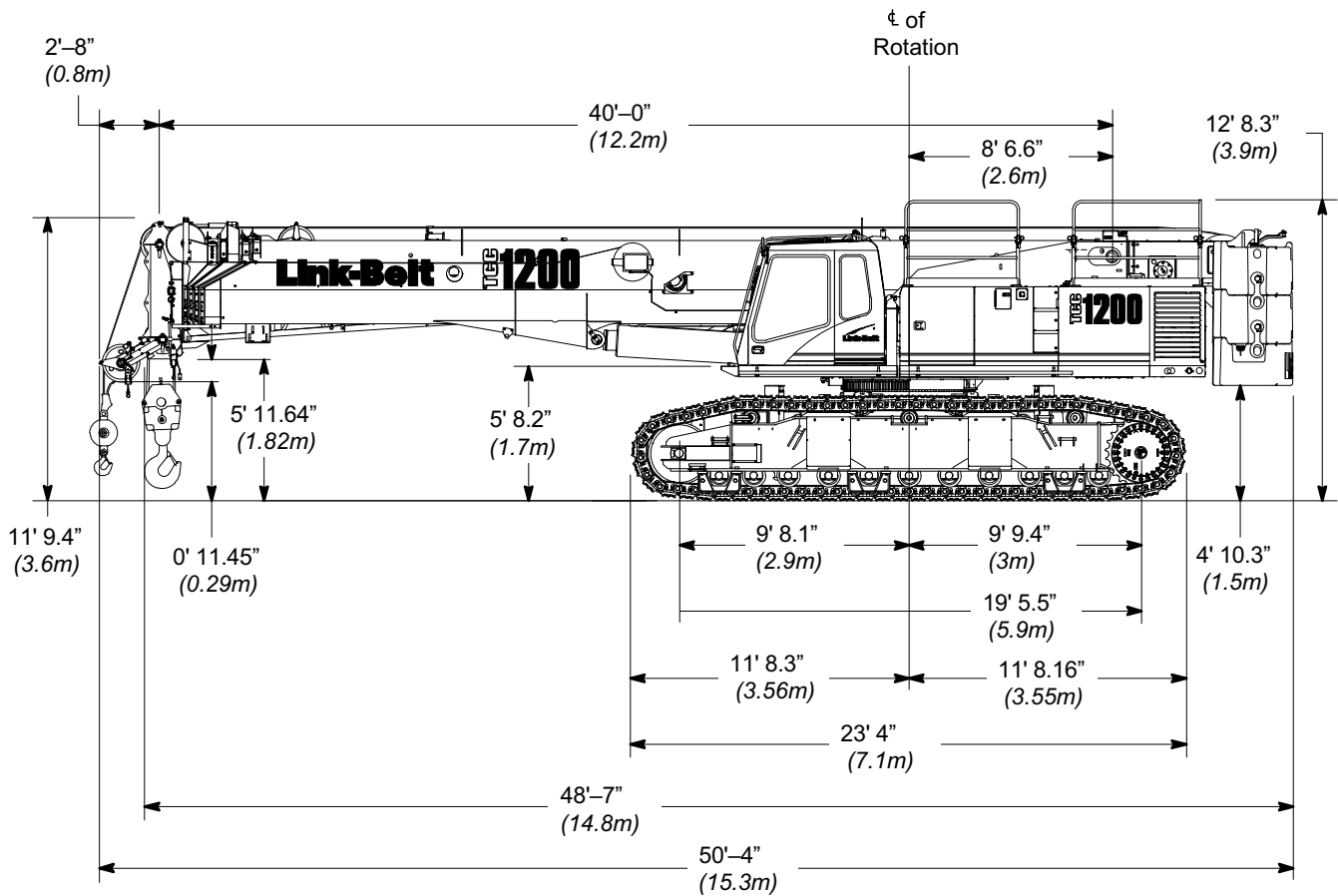
Fly

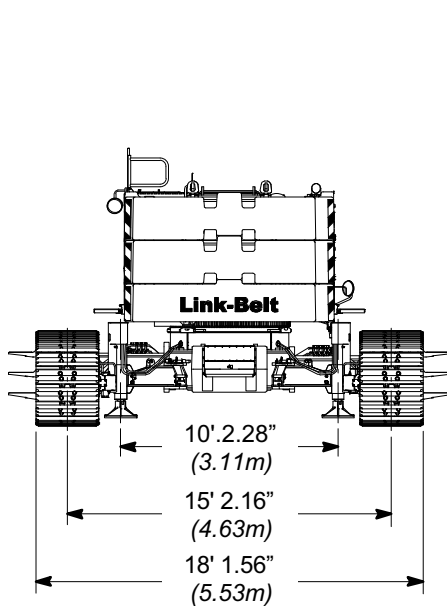
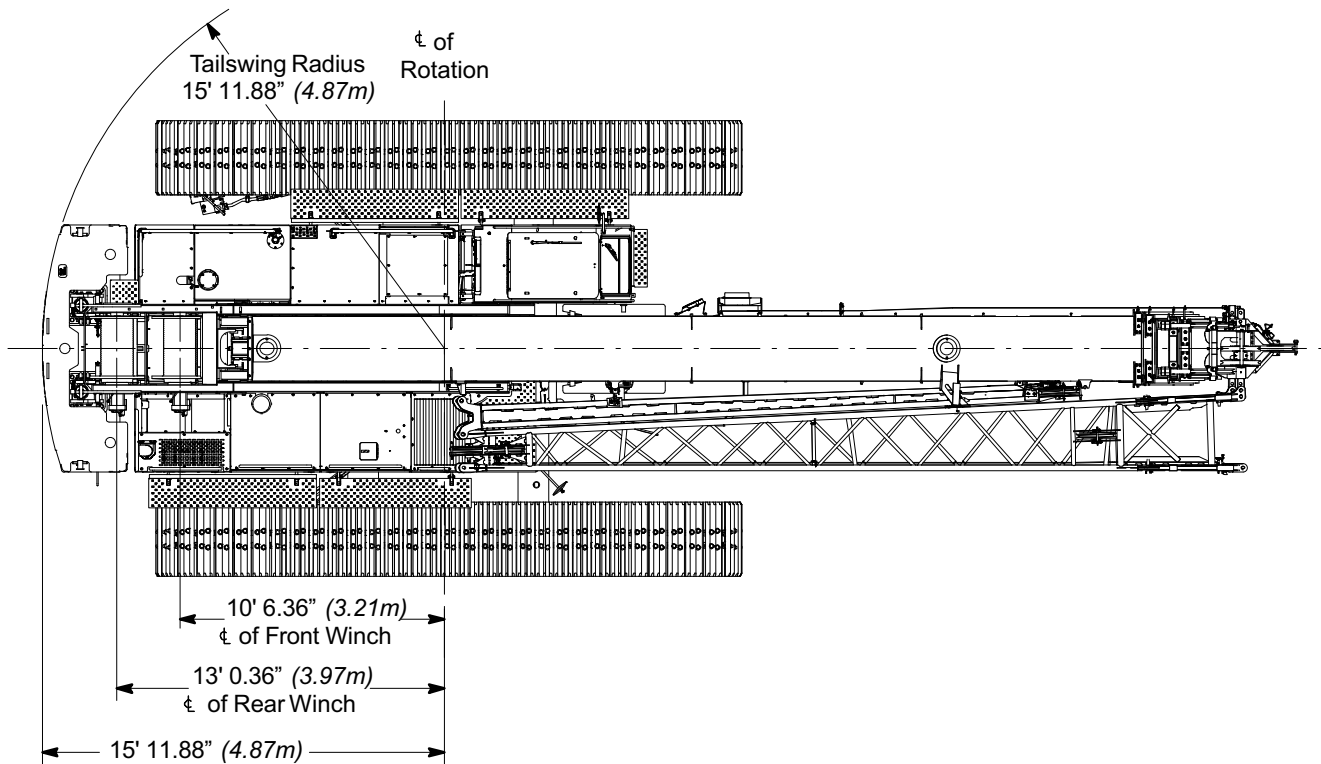
- 10 ft (3.0m) lattice fly, stowable, manually offsettable to 2°, 15°, 30°, and 45°. Maximum tip height is 166 ft (50.6m).
- 31 ft (9.4m) one piece fly, stowable, manually offsettable to 2°, 15°, 30°, and 45°. Maximum tip height is 187 ft (57m).
- 10-31 ft two piece lattice fly, stowable, manually offsettable to 2°, 15°, 30°, and 45°. Maximum tip height is 187 ft (57m).
- 10-31-55 ft three piece bi-fold lattice fly, stowable, manually offsettable to 2°, 15°, 30°, and 45°. Maximum tip height is 211 ft (64.3m).
- No capacity deducts for stowed attachment

Dimensions

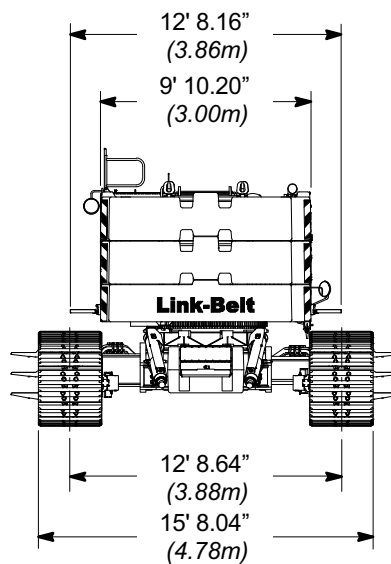
Base Crane

General Dimensions	English	Metric
Basic Boom	40-150 ft	12.2-45.7m
Minimum Load Radius	10 ft	3.05m
Maximum Boom Angle	80°	80°
Track Shoe Width	36 in	91.4cm

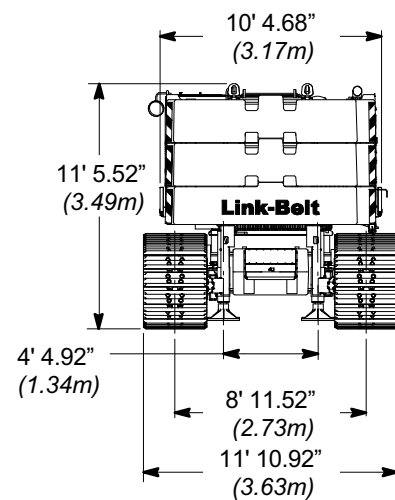




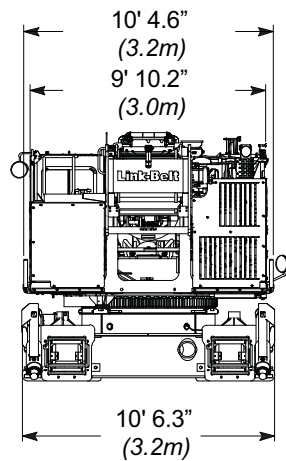
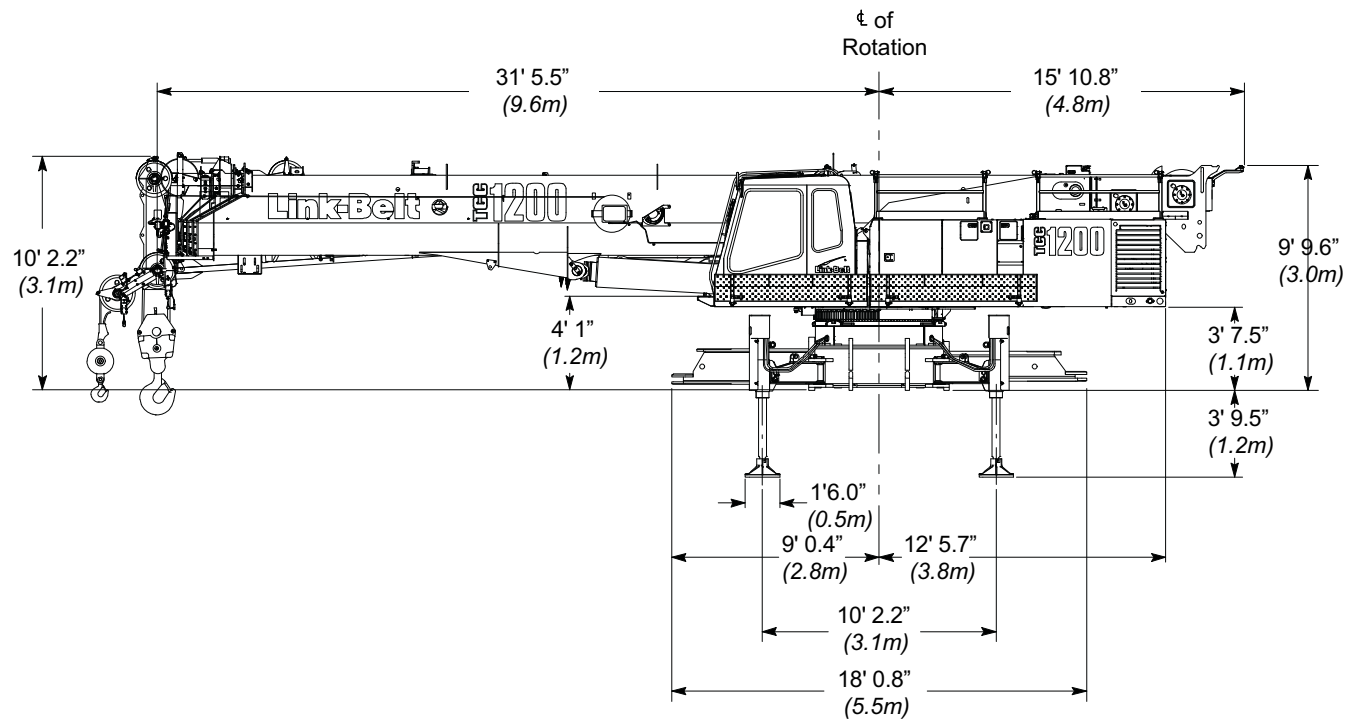
Extended Gauge



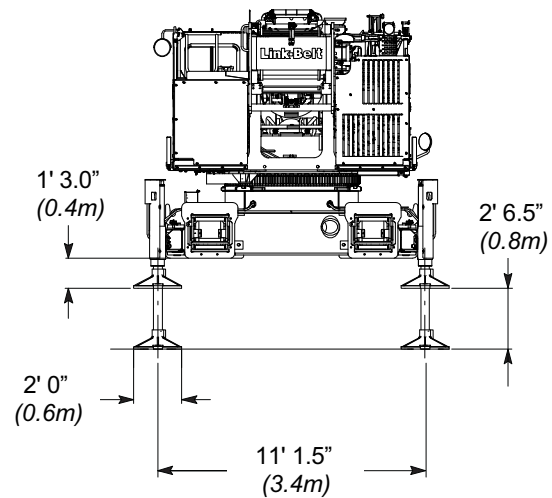
Intermediate Gauge



Retracted Gauge



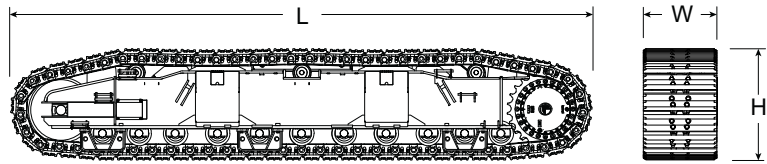
Jacks In Transport Position
Side Frames Removed
Upper Counterweight Removed
Lower Counterweight Removed



Side Frames

Side Frames ②

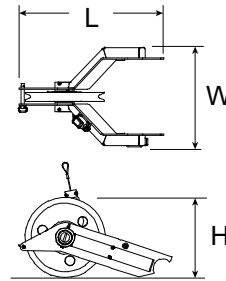
Length	280.06 in	(7.11m)
Width	35.43 in	(0.90m)
Height	53.50 in	(1.36m)
Weight	28,750 lb	(13 041kg)



Auxiliary Lifting Sheave

Auxiliary Lifting Sheave ①

Length	35.81 in	(0.91m)
Width	25.08 in	(0.64m)
Height	19 in	(0.48m)
Weight	108 lb	(49kg)

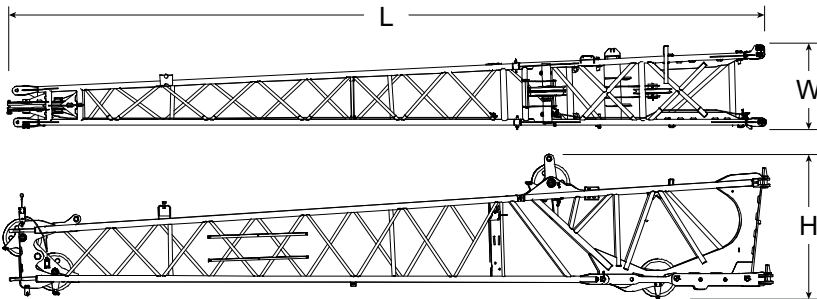


Fly

10 – 31 ft (3.0 – 9.4m) Two Piece

Fly Base And Center* ①

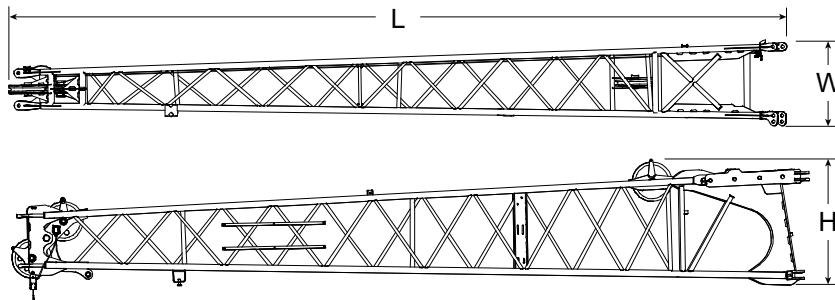
Length	12ft 7.17in	(9.63m)
Width	42.37 in	(1.07m)
Height	74.59 in	(1.89m)
Weight	1,114 lb	(505kg)



31 ft (9.4m) One Piece

Lattice Fly (Base Fly)* ①

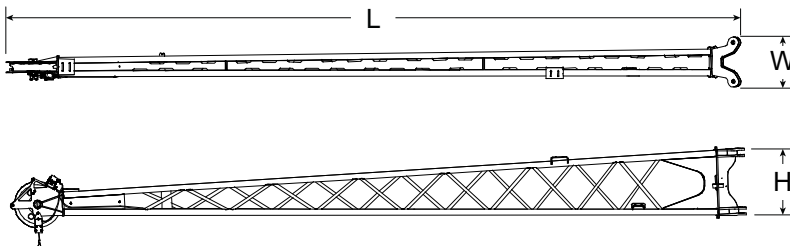
Length	31 ft	(9.45m)
Width	32.75 in	(0.83m)
Height	43.85 in	(1.11m)
Weight	2,030 lb	(921kg)



24 ft (7.3m) Lattice Fly Tip (Addition To Base Fly For 10 – 31 – 55 ft (3.1 – 9.4 – 16.7m))

Bi-fold Fly)* ①

Length	24 ft	(7.32m)
Width	16.63 in	(0.42m)
Height	24.52 in	(0.62m)
Weight	791 lb	(359kg)



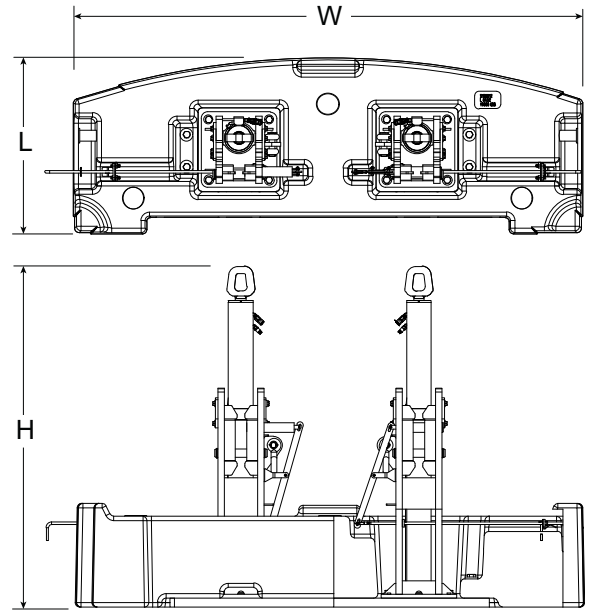
Number inside black circle "①" = # of components

* – Optional equipment

Counterweights

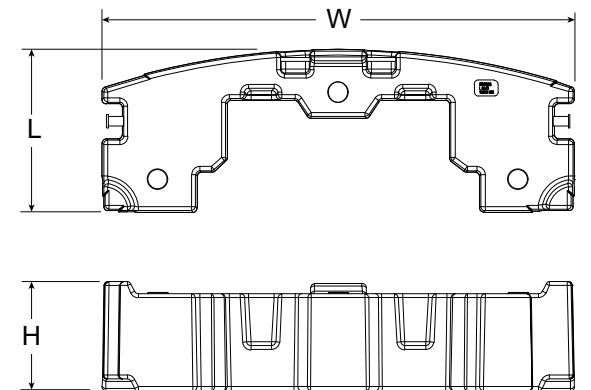
“A” Counterweight ❶

Length	40.64 in	(1.03m)
Width	9 ft 10 in	(3.00m)
Height	6 ft 7.0 in	(2.00m)
Weight	19,000 lb	(8 618kg)



“B” & “C” Counterweights ❷

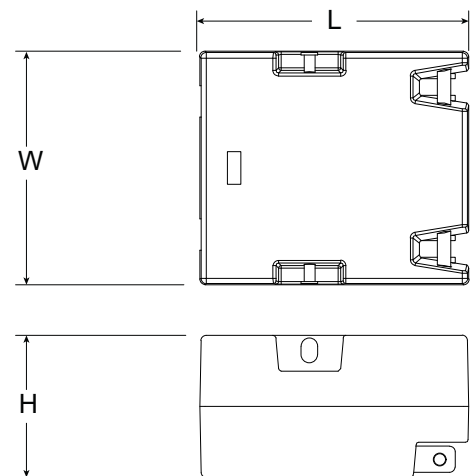
Length	40.7 in	(1.03m)
Width	9 ft 10 in	(3.00m)
Height	27.20 in	(0.69m)
Weight	16,000 lb	(7 257kg)



“A” Carbody

Counterweight ❷

Length	49.0 in	(1.24m)
Width	42.5 in	(1.08m)
Height	26.0 in	(0.66m)
Weight	12,500 lb	(5 670kg)



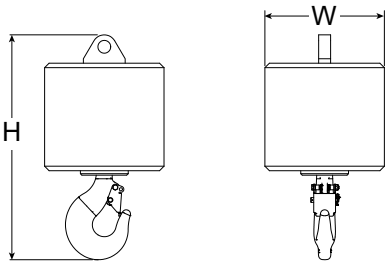
Number inside black circle “❶” = # of components

* – Optional equipment

Hook Ball

12 ton (10.9mt) Swivel

Hook Ball* ❶		
Width	15.75 in	(0.40m)
Height	29.65 in	(0.75m)
Weight	809 lb	(367kg)

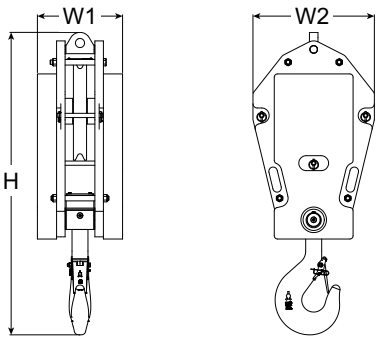


Hook Blocks

40 Ton (36.2mt)

1-Sheave Quick-Reeve

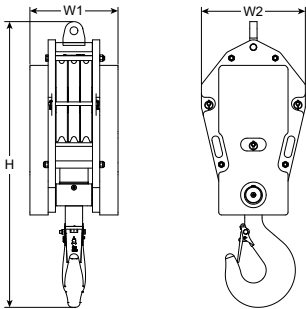
Hook Block* ❶		
Width 1	15.75 in	(0.40m)
Width 2	22.44 in	(0.57m)
Height	55.88 in	(1.42m)
Weight	1,494 lb	(678kg)



75 Ton (68mt)

3-Sheave Quick-Reeve

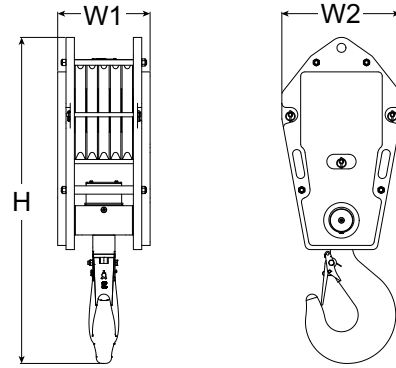
Hook Block* ❶		
Width 1	19 in	(0.48m)
Width 2	22.44 in	(0.57m)
Height	61.69 in	(1.57m)
Weight	1,951 lb	(885kg)



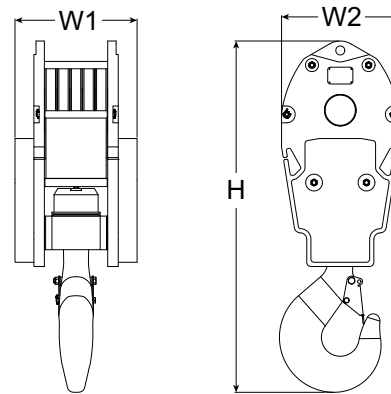
Number inside black circle “❶” = # of components
* – Optional equipment

90 Ton (81.7mt)**5-Sheave Quick-Reeve****Hook Block*****①**

Width 1	17.40 in	(0.44m)
Width 2	22.44 in	(0.57m)
Height	61.42 in	(1.56m)
Weight	1,750 lb	(793.8kg)

**120 Ton (108.9mt)****5-Sheave Quick-Reeve****Hook Block*****①**

Width 1	22.91 in	(0.58m)
Width 2	22.05 in	(0.56m)
Height	65.94 in	(1.67m)
Weight	2,498 lb	(1 133kg)



Number inside black circle “①” = # of components

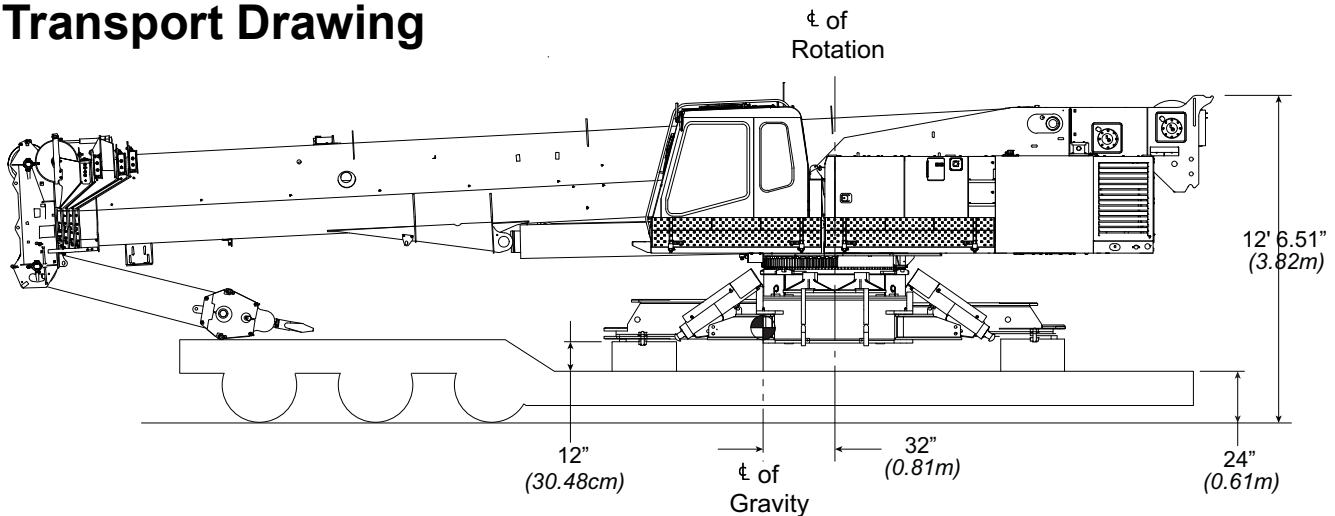
* – Optional equipment

Working Weights

Option	Description	Gross Weight lb (kg)	Ground Bearing Pressure (on soft ground) psi (kg/cm ²)
1	Base crane, "ABC" counterweight, 2 piece carbody counterweight, 850 ft (259.0m) type "KC" main wire rope, 500 ft (152.4m) type "KC" auxiliary wire rope, 2-piece fly, 90 ton (81.7mt) 5 sheave hook block, and 12 ton (10.89mt) hook ball. And a 200 lb (90.7kg) operator.	222,800 (101 060kg)	13.26 (0.93)

Notes: Ground bearing pressure is based on the total weight distributed evenly over the track contact area.

Transport Drawing



Transport Weight – 89,287 lb (40 499kg)

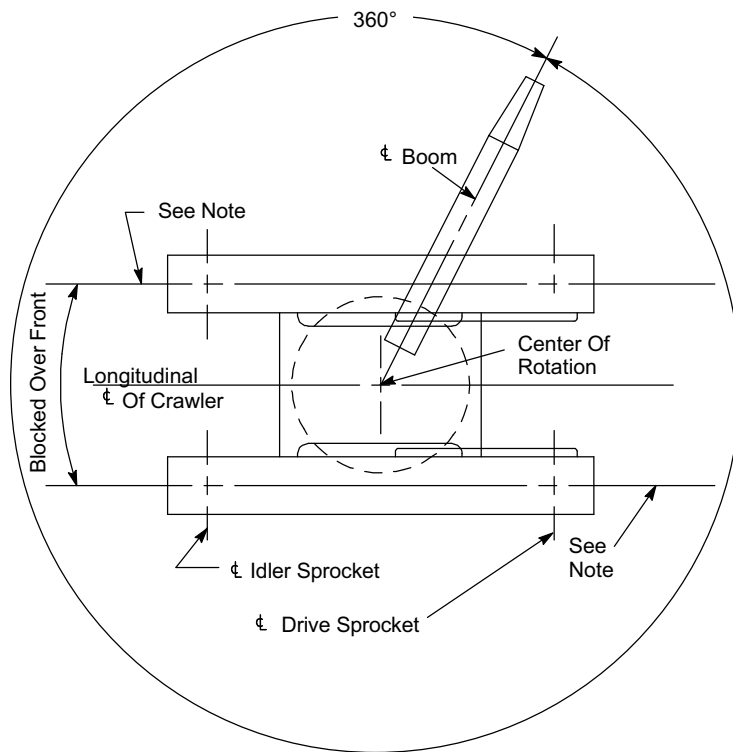
Base crane, 850 ft (259.08m) type "KC" main wire rope, 500 ft (152.40m) type "KC" auxiliary wire rope, 2-piece fly, 90 ton (81.7mt) 5 sheave hook block, and 12 ton (10.89mt) hook ball

Load Hoist Performance

Main (Rear) and Auxiliary (Front) Winches – 7/8 in (22mm) Rope										
Layer	Maximum Line Pull		Normal Line Speed		High Line Speed		Layer		Total	
	lb	kg	ft/min	m/min	ft/min	m/min	ft	m	ft	m
1	23,408	10 618	174	53.0	348	106.1	125	38.1	125	38.1
2	21,121	9 580	193	58.8	386	117.7	138	42.1	263	80.2
3	19,241	8 727	211	64.3	424	129.2	152	46.3	415	126.5
4	17,669	8 015	230	70.1	461	140.5	165	50.3	580	176.8
5	16,334	7 409	249	75.9	499	152.1	179	54.6	758	231.0
6	15,186	6 888	268	81.7	537	163.7	192	58.5	951	289.9

Wire Rope Application		Diameter		Type	Maximum Permissible Load	
		in	mm		lb	Kg
Main (Rear) & Auxiliary (Front) Winches	Standard	7/8	22	37x7 rotation resistant – non-rotating, galvanized, right lang lay (Type KC)	21,625	9 809
	Optional	7/8	22	18x19 rotation resistant – non – rotating, galvanized, right lang lay (Type RB)	17,520	7 947
	Optional	7/8	22	35x7 rotation resistant – non – rotating, galvanized, right lang lay (Type ZB)	20,920	9 490

Working Areas



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

Boom Extend Modes

Boom Mode “Amax1”

Inner and center sections telescope simultaneously

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

Boom Mode “Amax”

Center, outer, and tip sections telescope simultaneously

Tip	Outer	Center	Base
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)

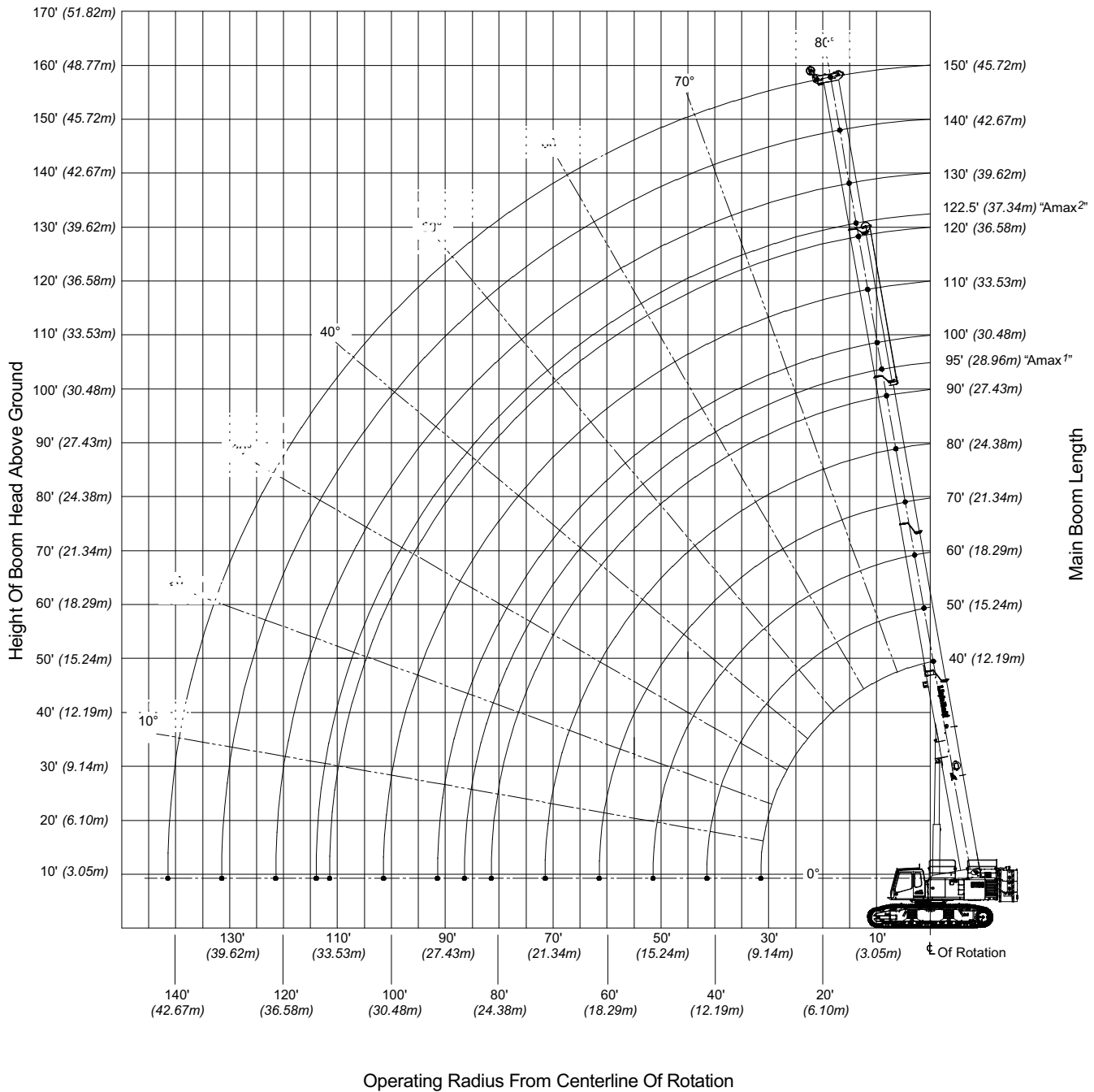
Boom Mode “Standard”

Inner, center, outer, and tip sections telescope simultaneously

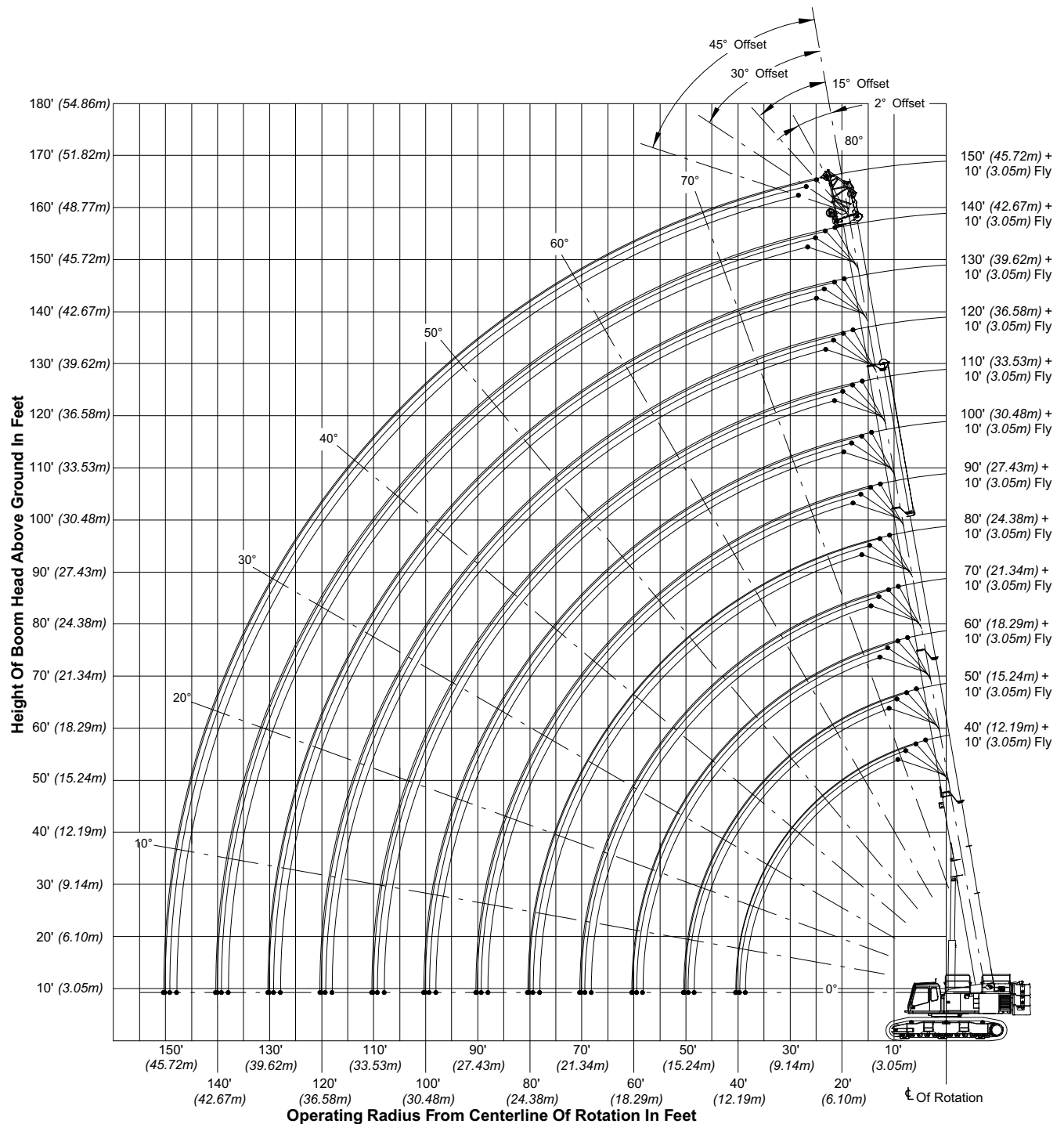
Tip	Outer	Center	Inner	Base
Telescope Length – ft (m)				Boom Length – ft (m)
0 (0)	0 (0)	0 (0)	0 (0)	40 (12.2)
2.5 (0.8)	2.5 (0.8)	2.5 (0.8)	2.5 (0.8)	50 (15.2)
5.0 (1.5)	5.0 (1.5)	5.0 (1.5)	5.0 (1.5)	60 (18.3)
7.5 (2.3)	7.5 (2.3)	7.5 (2.3)	7.5 (2.3)	70 (21.3)
10.0 (3.0)	10.0 (3.0)	10.0 (3.0)	10.0 (3.0)	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)

Working Range Diagrams

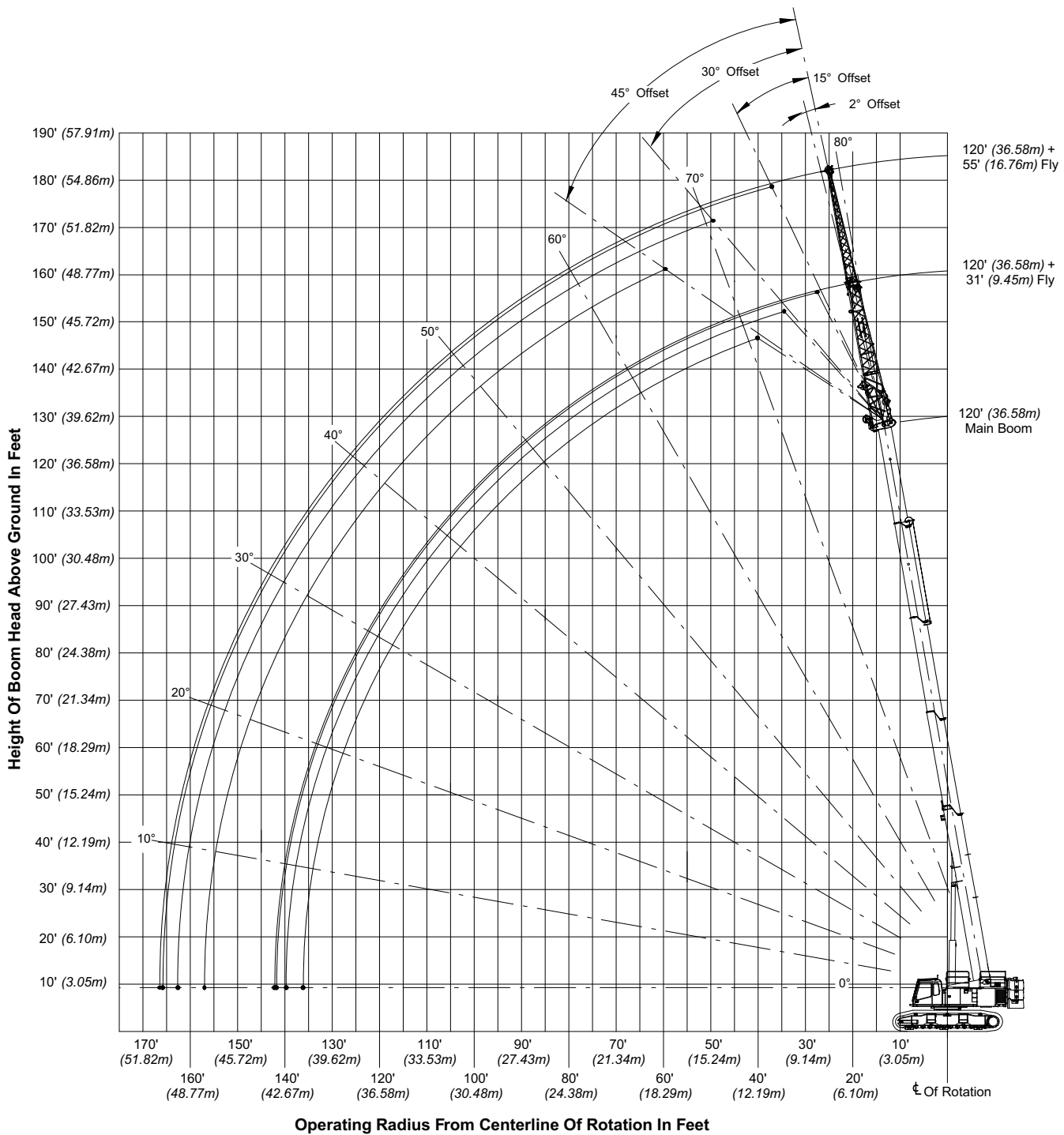
Main Boom



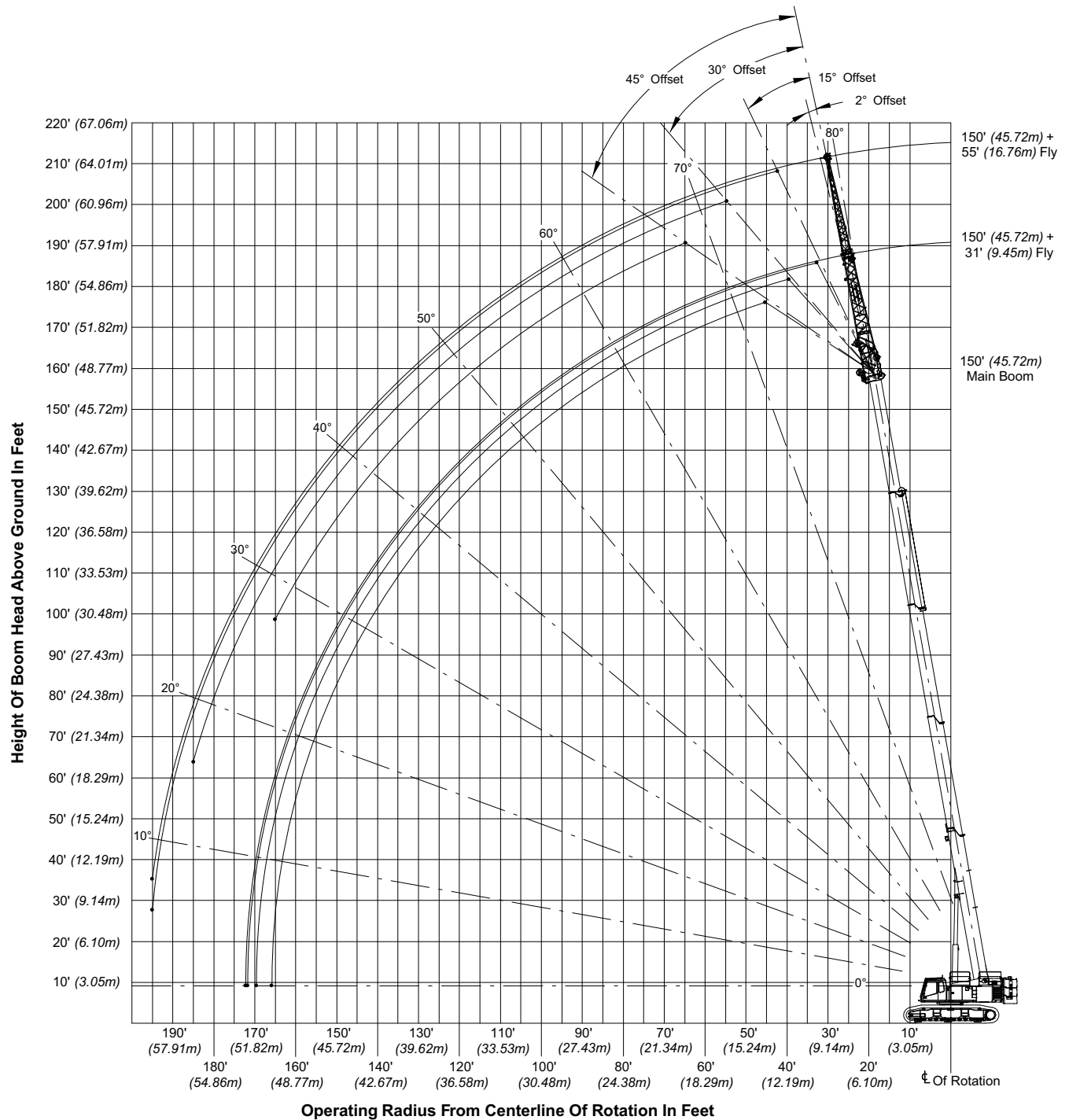
150' Main Boom + 10' Fly



120' Main Boom + 31-55' Fly



150' Main Boom + 31-55' Fly



Main Boom Load Charts – Imperial

Main Boom Lift Capacity Chart – 360° Rotation – Fully Extended Tracks ABC+A 76,000 lb Counterweight [All capacities are listed in kips]													
Load Radius ft	Main Boom												Load Radius ft
	Boom Length – ft												
	40	50	60	70	80	90	100	110	120	130	140	150	
10	240.0	107.2	105.4	101.5									10
12	193.7	107.2	105.4	101.5	101.4								12
15	155.0	107.2	105.4	101.5	96.6	81.9	56.5						15
20	116.2	107.2	105.4	101.5	80.8	73.3	56.5	56.0					20
25	93.0	93.0	93.0	87.8	69.0	62.7	56.3	56.0	58.0				25
30	74.3	74.1	73.7	73.3	59.9	55.0	53.5	56.0	51.3	48.6	38.4	30.0	30
35		58.1	57.9	57.6	53.2	51.8	53.5	51.8	45.4	43.1	38.4	30.0	35
40		48.9	49.9	50.6	51.0	46.7	49.5	46.3	40.6	38.5	37.0	30.0	40
45			41.8	42.4	42.9	42.4	41.5	41.5	36.5	34.7	33.4	30.0	45
50			35.6	36.3	36.7	37.1	35.5	35.6	33.0	31.4	30.2	29.1	50
55				31.4	31.8	32.2	30.7	30.8	30.0	28.5	27.5	26.5	55
60				27.5	27.9	28.2	27.9	26.9	26.9	26.0	25.1	24.2	60
65					24.6	24.9	25.2	23.7	23.7	23.7	23.0	22.2	65
70					21.9	22.2	22.4	21.9	21.0	21.0	21.0	20.3	70
75						20.0	20.2	20.4	18.8	18.9	18.9	18.7	75
80						18.0	18.2	18.4	17.3	16.9	16.9	17.0	80
85							16.5	16.6	16.1	15.2	15.2	15.2	85
90							14.9	15.1	15.1	13.6	13.7	13.7	90
95								13.8	13.9	12.3	12.3	12.4	95
100								12.6	12.7	11.1	11.1	11.2	100
105									11.7	10.0	10.1	10.1	105
110									10.7	9.0	9.1	9.1	110
115										8.2	8.2	8.3	115
120										7.4	7.4	7.5	120
125											6.7	6.7	125
130											6.0	6.1	130
135												5.5	135
140												4.9	140

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Main Boom Lift Capacity Chart – 360 ° Rotation – Fully Extended Tracks ABC+A 76,000 lb Counterweight [All capacities are listed in kips]													
Load Radius ft	Main Boom + 10 ft Manual Offset Fly (2° Offsets)												Load Radius ft
	Boom Length ft												
	40	50	60	70	80	90	100	110	120	130	140	150	
10	62.4	62.3											10
12	62.4	62.3	62.3										12
15	62.4	62.3	62.3	62.3	62.2								15
20	61.6	62.3	62.3	62.3	62.2	62.2							20
25	56.1	61.6	62.3	62.3	62.2	62.2	62.1	57.1	53.3				25
30	51.7	56.9	61.3	62.3	62.2	62.2	62.1	50.9	47.1	39.2	31.0	24.1	30
35	48.5	53.1	57.4	60.6	60.5	60.4	55.6	45.9	41.8	39.2	31.0	24.1	35
40	46.4	49.7	49.7	49.6	49.5	49.4	49.3	41.8	37.6	35.5	31.0	24.1	40
45		41.6	41.6	41.6	41.5	41.4	41.4	38.2	33.8	32.0	30.7	24.1	45
50		35.6	35.5	35.5	35.5	35.4	35.3	35.1	30.6	28.9	27.8	24.1	50
55				30.6	30.6	30.6	30.5	30.4	27.8	26.3	25.3	24.1	55
60				26.7	26.7	26.7	26.6	26.5	25.3	24.0	23.0	20.0	60
65					23.5	23.4	23.4	23.3	23.2	21.9	21.0	20.0	65
70					20.8	20.7	20.7	20.7	20.6	20.3	19.5	18.7	70
75						18.5	18.5	18.5	18.5	18.4	17.9	17.2	75
80						16.5	16.5	16.5	16.5	16.5	16.4	15.8	80
85							14.8	14.8	14.8	14.7	14.7	14.6	85
90							13.3	13.3	13.2	13.2	13.2	13.2	90
95								11.9	11.9	11.9	11.9	11.8	95
100								10.7	10.7	10.7	10.7	10.6	100
105									9.6	9.6	9.6	9.6	105
110									8.7	8.7	8.6	8.6	110
115										7.8	7.8	7.7	115
120										7.0	7.0	6.9	120
125											6.2	6.2	125
130											5.6	5.6	130
135												4.9	135
140												4.4	140
145												3.9	145

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Main Boom Lift Capacity Chart – 360° Rotation – Fully Extended Tracks ABC+A 76,000 lb Counterweight [All capacities are listed in kips]													
Load Radius ft	Main Boom + 10 ft Manual Offset Fly (15° Offsets)												Load Radius ft
	Boom Length ft												
	40	50	60	70	80	90	100	110	120	130	140	150	
10	62.4	62.3											10
12	61.9	62.3	62.3										12
15	58.7	61.7	62.3	62.3									15
20	54.3	57.5	59.9	61.2	61.3	61.1							20
25	50.9	54.0	56.5	58.1	58.7	58.8	58.6	55.7	52.2				25
30	48.3	51.2	53.7	55.4	56.3	56.7	56.7	49.9	46.8	39.1	31.0		30
35	47.2	49.0	51.3	53.1	54.2	54.7	54.9	45.1	42.1	39.1	31.0	24.1	35
40	46.6	47.3	49.4	50.2	50.1	50.0	49.9	41.1	37.9	35.9	31.0	24.1	40
45		42.0	42.0	42.1	42.0	41.9	41.8	37.7	34.1	32.3	31.0	24.1	45
50		35.8	35.9	35.9	35.9	35.8	35.7	34.7	30.9	29.2	28.1	24.1	50
55				31.0	31.0	30.9	30.9	30.8	28.0	26.6	25.6	24.1	55
60				27.0	27.0	27.0	27.0	26.9	25.6	24.2	23.3	20.0	60
65					23.7	23.7	23.7	23.7	23.5	22.2	21.3	20.0	65
70					21.0	21.0	21.0	20.9	20.9	20.5	19.7	19.0	70
75						18.7	18.7	18.7	18.7	18.7	18.1	17.4	75
80						16.7	16.7	16.7	16.7	16.7	16.7	16.0	80
85							15.0	15.0	15.0	15.0	14.9	14.8	85
90							13.4	13.4	13.4	13.4	13.4	13.4	90
95								12.1	12.1	12.1	12.1	12.0	95
100								10.9	10.9	10.9	10.8	10.8	100
105									9.8	9.8	9.8	9.7	105
110									8.8	8.8	8.8	8.8	110
115										7.9	7.9	7.9	115
120										7.1	7.1	7.1	120
125											6.3	6.3	125
130											5.7	5.7	130
135												5.0	135
140												4.5	140
145												3.9	145

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Main Boom Lift Capacity Chart – 360 ° Rotation – Fully Extended Tracks ABC+A 76,000 lb Counterweight [All capacities are listed in kips]													
Load Radius ft	Main Boom + 10 ft Manual Offset Fly (30° Offsets)												Load Radius ft
	Boom Length ft												
	40	50	60	70	80	90	100	110	120	130	140	150	
10	54.8	56.0											10
12	53.4	54.8	55.7										12
15	51.6	53.1	54.1	54.6									15
20	49.2	50.7	51.9	52.5	52.6	52.5							20
25	47.4	48.8	50.0	50.8	51.1	51.1	50.9	50.4					25
30	46.3	47.4	48.5	49.3	49.7	49.8	49.8	49.0	46.1	39.2			30
35	46.3	46.5	47.4	48.1	48.5	48.7	48.7	44.4	41.8	39.2	31.0	24.1	35
40	46.3	46.1	46.5	47.1	47.5	47.8	47.8	40.7	38.2	36.2	31.0	24.1	40
45		42.3	42.5	42.5	42.4	42.4	42.3	37.4	34.5	32.7	31.0	24.1	45
50			36.2	36.3	36.3	36.2	36.2	34.5	31.2	29.6	28.5	24.1	50
55				31.3	31.3	31.3	31.3	31.2	28.4	26.9	25.9	24.1	55
60				27.2	27.3	27.3	27.3	27.2	25.9	24.5	23.6	20.0	60
65					23.9	24.0	24.0	24.0	23.7	22.5	21.6	20.0	65
70					21.1	21.2	21.2	21.2	21.2	20.8	20.0	19.2	70
75						18.9	19.0	19.0	19.0	19.0	18.4	17.7	75
80						16.8	16.9	16.9	17.0	16.9	16.9	16.3	80
85							15.1	15.1	15.2	15.2	15.2	15.0	85
90								13.6	13.6	13.6	13.6	13.6	90
95								12.2	12.2	12.2	12.2	12.2	95
100									11.0	11.0	11.0	11.0	100
105									9.9	9.9	9.9	9.9	105
110										8.9	8.9	8.9	110
115										8.0	8.0	8.0	115
120											7.2	7.2	120
125											6.4	6.4	125
130												5.7	130

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Main Boom Lift Capacity Chart – 360° Rotation – Fully Extended Tracks ABC+A 76,000 lb Counterweight [All capacities are listed in kips]													
Load Radius ft	Main Boom + 10 ft Manual Offset Fly (45° Offsets)												Load Radius ft
	Boom Length ft												
	40	50	60	70	80	90	100	110	120	130	140	150	
12	48.6	49.2											12
15	47.7	48.3	48.7										15
20	46.6	47.1	47.6	47.7	47.7	47.5							20
25	46.1	46.3	46.7	46.9	46.9	46.7	46.5						25
30	46.1	46.0	46.2	46.3	46.3	46.1	45.9	45.5	44.5				30
35		46.0	45.9	45.9	45.8	45.7	45.5	44.1	41.6	39.4	31.2		35
40		46.0	45.9	45.7	45.5	45.3	45.1	40.5	38.1	36.1	31.2	24.4	40
45			42.7	42.8	42.8	42.8	42.7	37.2	34.9	33.1	31.2	24.4	45
50				36.5	36.6	36.6	36.6	34.4	31.6	30.0	28.9	24.4	50
55				31.4	31.6	31.6	31.6	31.5	28.8	27.3	26.3	24.4	55
60					27.5	27.5	27.5	27.5	26.2	24.9	23.9	20.1	60
65						24.2	24.2	24.2	24.0	22.7	21.9	20.1	65
70							21.4	21.4	21.4	20.9	20.3	19.5	70
75							19.1	19.2	19.2	19.2	18.6	17.9	75
80								17.1	17.1	17.1	17.1	16.5	80
85									15.3	15.3	15.3	15.2	85
90									13.7	13.7	13.8	13.7	90
95										12.3	12.4	12.4	95
100											11.1	11.1	100
105												10.0	105

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Main Boom Load Charts – Metric

Main Boom Lift Capacity Chart – 360° Rotation – Fully Extended Tracks ABC+A 34 473kg Counterweight [All capacities are listed in kips (mt)]													
Load Radius (m)	Main Boom												Load Radius (m)
	Boom Length (m)												
	12.2	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	
3.0	110.0	48.6	47.8	46.0									3.0
3.7	87.9	48.6	47.8	46.0	46.0								3.7
4.6	70.3	48.6	47.8	46.0	43.8	37.1	25.6						4.6
6.1	52.7	48.6	47.8	46.0	36.7	33.2	25.6	25.4					6.1
7.6	42.2	42.2	42.2	39.8	31.3	28.4	25.5	25.4	26.3				7.6
9.1	33.7	33.6	33.4	33.2	27.2	24.9	24.3	25.4	23.3	22.0	17.4	13.6	9.1
10.7		26.4	26.3	26.1	24.1	23.5	24.3	23.5	20.6	19.5	17.4	13.6	10.7
12.2		22.2	22.6	23.0	23.1	21.2	22.5	21.0	18.4	17.5	16.8	13.6	12.2
13.7			19.0	19.2	19.5	19.2	18.8	18.8	16.6	15.7	15.1	13.6	13.7
15.2			16.1	16.5	16.6	16.8	16.1	16.1	15.0	14.2	13.7	13.2	15.2
16.8				14.2	14.4	14.6	13.9	14.0	13.6	12.9	12.5	12.0	16.8
18.3				12.5	12.7	12.8	12.7	12.2	12.2	11.8	11.4	11.0	18.3
19.8					11.2	11.3	11.4	10.8	10.8	10.8	10.4	10.1	19.8
21.3					9.9	10.1	10.2	9.9	9.5	9.5	9.5	9.2	21.3
22.9						9.1	9.2	9.3	8.5	8.6	8.6	8.5	22.9
24.4						8.2	8.3	8.3	7.8	7.7	7.7	7.7	24.4
25.9							7.5	7.5	7.3	6.9	6.9	6.9	25.9
27.4							6.8	6.8	6.8	6.2	6.2	6.2	27.4
29.0								6.3	6.3	5.6	5.6	5.6	29.0
30.5								5.7	5.8	5.0	5.0	5.1	30.5
32.0									5.3	4.5	4.6	4.6	32.0
33.5									4.9	4.1	4.1	4.1	33.5
35.1										3.7	3.7	3.8	35.1
36.6										3.4	3.4	3.4	36.6
38.1											3.0	3.0	38.1
39.6											2.7	2.8	39.6
41.1												2.5	41.1
42.7												2.2	42.7

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Main Boom Lift Capacity Chart – 360° Rotation – Fully Extended Tracks ABC+A 34 473kg Counterweight [All capacities are listed in kips (mt)]													
Load Radius m	Main Boom + 3.1 m Manual Offset Fly (2° Offsets)												Load Radius m
	Boom Length (m)												
	12.2	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	
3.0	28.3	28.3											3.0
3.7	28.3	28.3	28.3										3.7
4.6	28.3	28.3	28.3	28.3	28.2								4.6
6.1	27.9	28.3	28.3	28.3	28.2	28.2							6.1
7.6	25.4	27.9	28.3	28.3	28.2	28.2	28.2	25.9	24.2				7.6
9.1	23.5	25.8	27.8	28.3	28.2	28.2	28.2	23.1	21.4	17.8	14.1	10.9	9.1
10.7	22.0	24.1	26.0	27.5	27.4	27.4	25.2	20.8	19.0	17.8	14.1	10.9	10.7
12.2	21.0	22.5	22.5	22.5	22.5	22.4	22.4	19.0	17.1	16.1	14.1	10.9	12.2
13.7		18.9	18.9	18.9	18.8	18.8	18.8	17.3	15.3	14.5	13.9	10.9	13.7
15.2		16.1	16.1	16.1	16.1	16.1	16.0	15.9	13.9	13.1	12.6	10.9	15.2
16.8				13.9	13.9	13.9	13.8	13.8	12.6	11.9	11.5	10.9	16.8
18.3				12.1	12.1	12.1	12.1	12.0	11.5	10.9	10.4	9.1	18.3
19.8					10.7	10.6	10.6	10.6	10.5	9.9	9.5	9.1	19.8
21.3					9.4	9.4	9.4	9.4	9.3	9.2	8.8	8.5	21.3
22.9						8.4	8.4	8.4	8.4	8.3	8.1	7.8	22.9
24.4						7.5	7.5	7.5	7.5	7.5	7.4	7.2	24.4
25.9							6.7	6.7	6.7	6.7	6.7	6.6	25.9
27.4							6.0	6.0	6.0	6.0	6.0	6.0	27.4
29.0								5.4	5.4	5.4	5.4	5.4	29.0
30.5								4.9	4.9	4.9	4.9	4.8	30.5
32.0									4.4	4.4	4.4	4.4	32.0
33.5									3.9	3.9	3.9	3.9	33.5
35.1										3.5	3.5	3.5	35.1
36.6										3.2	3.2	3.1	36.6
38.1											2.8	2.8	38.1
39.6											2.5	2.5	39.6
41.1												2.2	41.1
42.7												2.0	42.7
44.2												1.8	44.2

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Main Boom Lift Capacity Chart – 360° Rotation – Fully Extended Tracks ABC+A 34 473kg Counterweight [All capacities are listed in kips (mt)]													
Load Radius m	Main Boom + 3.1 m Manual Offset Fly (15° Offsets)												Load Radius m
	Boom Length m												
	12.2	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	
3.0	28.3	28.3											3.0
3.7	28.1	28.3	28.3										3.7
4.6	26.6	28.0	28.3	28.3									4.6
6.1	24.6	26.1	27.2	27.8	27.8	27.7							6.1
7.6	23.1	24.5	25.6	26.4	26.6	26.7	26.6	25.3	23.7				7.6
9.1	21.9	23.2	24.4	25.1	25.5	25.7	25.7	22.6	21.2	17.7	14.1		9.1
10.7	21.4	22.2	23.3	24.1	24.6	24.8	24.9	20.5	19.1	17.7	14.1	10.9	10.7
12.2	21.1	21.5	22.4	22.8	22.7	22.7	22.6	18.6	17.2	16.3	14.1	10.9	12.2
13.7		19.1	19.1	19.1	19.1	19.0	19.0	17.1	15.5	14.7	14.1	10.9	13.7
15.2		16.2	16.3	16.3	16.3	16.2	16.2	15.7	14.0	13.2	12.7	10.9	15.2
16.8				14.1	14.1	14.0	14.0	14.0	12.7	12.1	11.6	10.9	16.8
18.3				12.2	12.2	12.2	12.2	12.2	11.6	11.0	10.6	9.1	18.3
19.8					10.8	10.8	10.8	10.8	10.7	10.1	9.7	9.1	19.8
21.3					9.5	9.5	9.5	9.5	9.5	9.3	8.9	8.6	21.3
22.9						8.5	8.5	8.5	8.5	8.5	8.2	7.9	22.9
24.4						7.6	7.6	7.6	7.6	7.6	7.6	7.3	24.4
25.9							6.8	6.8	6.8	6.8	6.8	6.7	25.9
27.4							6.1	6.1	6.1	6.1	6.1	6.1	27.4
29.0								5.5	5.5	5.5	5.5	5.4	29.0
30.5								4.9	4.9	4.9	4.9	4.9	30.5
32.0									4.4	4.4	4.4	4.4	32.0
33.5									4.0	4.0	4.0	4.0	33.5
35.1										3.6	3.6	3.6	35.1
36.6										3.2	3.2	3.2	36.6
38.1											2.9	2.9	38.1
39.6											2.6	2.6	39.6
41.1												2.3	41.1
42.7												2.0	42.7
44.2												1.8	44.2

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Main Boom Lift Capacity Chart – 360° Rotation – Fully Extended Tracks ABC+A 34 473kg Counterweight [All capacities are listed in kips (mt)]													
Load Radius m	Main Boom + 3.1 m Manual Offset Fly (30° Offsets)												Load Radius m
	Boom Length m												
	12.2	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	
3.0	24.9	25.4											3.0
3.7	24.2	24.9	25.3										3.7
4.6	23.4	24.1	24.5	24.8									4.6
6.1	22.3	23.0	23.5	23.8	23.9	23.8							6.1
7.6	21.5	22.1	22.7	23.0	23.2	23.2	23.1	22.9					7.6
9.1	21.0	21.5	22.0	22.4	22.5	22.6	22.6	22.2	20.9	17.8			9.1
10.7	21.0	21.1	21.5	21.8	22.0	22.1	22.1	20.1	19.0	17.8	14.1	10.9	10.7
12.2	21.0	20.9	21.1	21.4	21.5	21.7	21.7	18.5	17.3	16.4	14.1	10.9	12.2
13.7		19.2	19.3	19.3	19.2	19.2	19.2	17.0	15.6	14.8	14.1	10.9	13.7
15.2			16.4	16.5	16.5	16.4	16.4	15.6	14.2	13.4	12.9	10.9	15.2
16.8				14.2	14.2	14.2	14.2	14.2	12.9	12.2	11.7	10.9	16.8
18.3				12.3	12.4	12.4	12.4	12.3	11.7	11.1	10.7	9.1	18.3
19.8					10.8	10.9	10.9	10.9	10.8	10.2	9.8	9.1	19.8
21.3					9.6	9.6	9.6	9.6	9.6	9.4	9.1	8.7	21.3
22.9						8.6	8.6	8.6	8.6	8.6	8.3	8.0	22.9
24.4						7.6	7.7	7.7	7.7	7.7	7.7	7.4	24.4
25.9							6.8	6.8	6.9	6.9	6.9	6.8	25.9
27.4								6.2	6.2	6.2	6.2	6.2	27.4
29.0								5.5	5.5	5.5	5.5	5.5	29.0
30.5									5.0	5.0	5.0	5.0	30.5
32.0									4.5	4.5	4.5	4.5	32.0
33.5										4.0	4.0	4.0	33.5
35.1										3.6	3.6	3.6	35.1
36.6											3.3	3.3	36.6
38.1											2.9	2.9	38.1
39.6												2.6	39.6

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Main Boom Lift Capacity Chart – 360° Rotation – Fully Extended Tracks ABC+A 34 473kg Counterweight [All capacities are listed in kips (mt)]													
Load Radius m	Main Boom + 3.1 m Manual Offset Fly (45° Offsets)												Load Radius m
	Boom Length ft (m)												
	12.2	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	
3.7	22.0	22.3											3.7
4.6	21.6	21.9	22.1										4.6
6.1	21.1	21.4	21.6	21.6	21.6	21.5							6.1
7.6	20.9	21.0	21.2	21.3	21.3	21.2	21.1						7.6
9.1	20.9	20.9	21.0	21.0	21.0	20.9	20.8	20.6	20.2				9.1
10.7		20.9	20.8	20.8	20.8	20.7	20.6	20.0	18.9	17.9	14.2		10.7
12.2		20.9	20.8	20.7	20.6	20.5	20.5	18.4	17.3	16.4	14.2	11.1	12.2
13.7			19.4	19.4	19.4	19.4	19.4	16.9	15.8	15.0	14.2	11.1	13.7
15.2				16.6	16.6	16.6	16.6	15.6	14.3	13.6	13.1	11.1	15.2
16.8				14.2	14.3	14.3	14.3	14.3	13.1	12.4	11.9	11.1	16.8
18.3					12.5	12.5	12.5	12.5	11.9	11.3	10.8	9.1	18.3
19.8						11.0	11.0	11.0	10.9	10.3	9.9	9.1	19.8
21.3							9.7	9.7	9.7	9.5	9.2	8.8	21.3
22.9							8.7	8.7	8.7	8.7	8.4	8.1	22.9
24.4								7.8	7.8	7.8	7.8	7.5	24.4
25.9									6.9	6.9	6.9	6.9	25.9
27.4									6.2	6.2	6.3	6.2	27.4
29.0										5.6	5.6	5.6	29.0
30.5											5.0	5.0	30.5
32.0												4.5	32.0

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Jib Attachment Load Charts

Main Boom Lift Capacity Chart – 360° Rotation – Fully Extended Tracks ABC+A 76,000 lb Counterweight [All capacities are listed in kips]									
Load Radius ft	120 ft Main Boom Length								Load Radius ft
	31 ft Manual Offset Fly				55 ft Manual Offset Fly				
	2°	15°	30°	45°	2°	15°	30°	45°	
30	29.7								30
35	28.3				13.6				35
40	27	20.3			13.1				40
45	25.8	19.7	16.9		12.7				45
50	24.7	19.1	16.5	14.8	12.2	10.4			50
55	23.6	18.5	16.1	14.6	11.8	10.1			55
60	22.6	18	15.8	14.4	11.4	9.8			60
65	20.1	17.5	15.5	14.3	11.1	9.6	8.3		65
70	29.5	17	15.2	14.1	10.7	9.3	8.2		70
75	18.8	16.6	14.9	14	10.4	9.1	8	7.3	75
80	17.4	16.2	14.7	13.9	10.1	8.8	7.8	7.2	80
85	15.6	15.8	14.5	13.9	9.8	8.6	7.7	7.2	85
90	14.1	14.7	14.3	13.8	9.5	8.4	7.6	7.1	90
95	12.8	13.3	13.7	13.8	9.2	8.2	7.5	7	95
100	11.6	12	12.4	12.7	9	8.1	7.4	7	100
105	10.5	10.9	11.2	11.4	8.8	7.9	7.3	6.9	105
110	9.5	9.9	10.2	10.3	8.5	7.8	7.2	6.9	110
115	8.7	9	9.2	9.3	8.3	7.6	7.1	6.9	115
120	7.9	8.1	8.3		8.1	7.5	7.1	6.9	120
125	7.1	7.4	7.5		8	7.4	7	6.9	125
130	6.5	6.7	6.8		7.3	7.3	7	6.9	130
135	5.9	6			6.7	7.1	7	6.9	135
140	5.3	5.4			6.1	6.5	6.8	6.9	140
145					5.6	5.9	6.1		145
150					5.1	5.4	5.5		150
155					4.6	4.9	5		155

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Main Boom Lift Capacity Chart – 360° Rotation – Fully Extended Tracks ABC+A 76,000 lb Counterweight [All capacities are listed in kips]									
Load Radius ft	150 ft Main Boom Length								Load Radius ft
	31 ft Manual Offset Fly				55 ft Manual Offset Fly				
	2°	15°	30°	45°	2°	15°	30°	45°	
35	16.10								35
40	16.10				10.20				40
45	16.10	16.20			10.00				45
50	16.10	16.20	14.80		9.80				50
55	16.10	16.10	14.60	13.60	9.70	8.60			55
60	16.10	15.90	14.40	13.40	9.50	8.40			60
65	16.10	15.60	14.20	13.30	9.30	8.30			65
70	16.10	15.40	14.00	13.20	9.10	8.10	7.30		70
75	16.10	15.20	13.90	13.10	9.00	8.00	7.20		75
80	14.90	15.00	13.70	13.10	8.80	7.90	7.10	6.60	80
85	13.80	14.20	13.60	13.00	8.60	7.80	7.00	6.60	85
90	12.70	13.10	13.50	13.00	8.50	7.60	6.90	6.50	90
95	11.70	12.10	12.50	12.90	8.30	7.50	6.90	6.50	95
100	10.80	11.20	11.60	11.90	8.20	7.40	6.80	6.40	100
105	10.00	10.30	10.70	11.00	8.10	7.30	6.70	6.40	105
110	9.10	9.50	9.90	10.10	7.90	7.20	6.70	6.40	110
115	8.30	8.70	9.00	9.30	7.80	7.10	6.60	6.40	115
120	7.50	7.80	8.20	8.40	7.50	7.00	6.60	6.40	120
125	6.70	7.10	7.40	7.60	6.90	6.90	6.50	6.40	125
130	6.10	6.40	6.70	6.80	6.40	6.80	6.50	6.40	130
135	5.50	5.80	6.00	6.10	5.90	6.20	6.50	6.40	135
140	4.90	5.20	5.40	5.40	5.40	5.70	6.10	6.40	140
145	4.40	4.60	4.80		4.90	5.30	5.60	5.80	145
150	3.90	4.10	4.20		4.50	4.80	5.10	5.30	150
155	3.50	3.60	3.70		4.10	4.40	4.70	4.80	155
160	3.00	3.20	3.20		3.60	4.00	4.20	4.40	160
165	2.70	2.80			3.20	3.60	3.80	3.90	165
170	2.30	2.40			2.90	3.20	3.40		170
175					2.50	2.80	2.90		175
180					2.20	2.40	2.50		180
185					1.90	2.10	2.10		185
190					1.60	1.70			190
195					1.40	1.40			195

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Jib Attachment Load Charts – Metric

Main Boom Lift Capacity Chart – 360° Rotation – Fully Extended Tracks ABC+A 34 473kg Counterweight [All capacities are listed in kips (mt)]									
Load Radius m	36.58 m Main Boom Length								Load Radius m
	9.45 m Manual Offset Fly				16.76 m Manual Offset Fly				
	2°	15°	30°	45°	2°	15°	30°	45°	
9.10	13.50								9.10
10.70	12.80				6.20				10.70
12.20	12.20	9.20			5.90				12.20
13.70	11.70	8.90	7.70		5.80				13.70
15.20	11.20	8.70	7.50	6.70	5.50	4.70			15.20
16.80	10.70	8.40	7.30	6.60	5.40	4.60			16.80
18.30	10.30	8.20	7.20	6.50	5.20	4.40			18.30
19.80	9.10	7.90	7.00	6.50	5.00	4.40	3.80		19.80
21.30	13.40	7.70	6.90	6.40	4.90	4.20	3.70		21.30
22.90	8.50	7.50	6.80	6.40	4.70	4.10	3.60	3.30	22.90
24.40	7.90	7.30	6.70	6.30	4.60	4.00	3.50	3.30	24.40
25.90	7.10	7.20	6.60	6.30	4.40	3.90	3.50	3.30	25.90
27.40	6.40	6.70	6.50	6.30	4.30	3.80	3.40	3.20	27.40
29.00	5.80	6.00	6.20	6.30	4.20	3.70	3.40	3.20	29.00
30.50	5.30	5.40	5.60	5.80	4.10	3.70	3.40	3.20	30.50
32.00	4.80	4.90	5.10	5.20	4.00	3.60	3.30	3.10	32.00
33.50	4.30	4.50	4.60	4.70	3.90	3.50	3.30	3.10	33.50
35.10	3.90	4.10	4.20	4.20	3.80	3.40	3.20	3.10	35.10
36.60	3.60	3.70	3.80		3.70	3.40	3.20	3.10	36.60
38.10	3.20	3.40	3.40		3.60	3.40	3.20	3.10	38.10
39.60	2.90	3.00	3.10		3.30	3.30	3.20	3.10	39.60
41.10	2.70	2.70			3.00	3.20	3.20	3.10	41.10
42.70	2.40	2.40			2.80	2.90	3.10	3.10	42.70
44.20					2.50	2.70	2.80		44.20
45.70					2.30	2.40	2.50		45.70
47.20					2.10	2.20	2.30		47.20

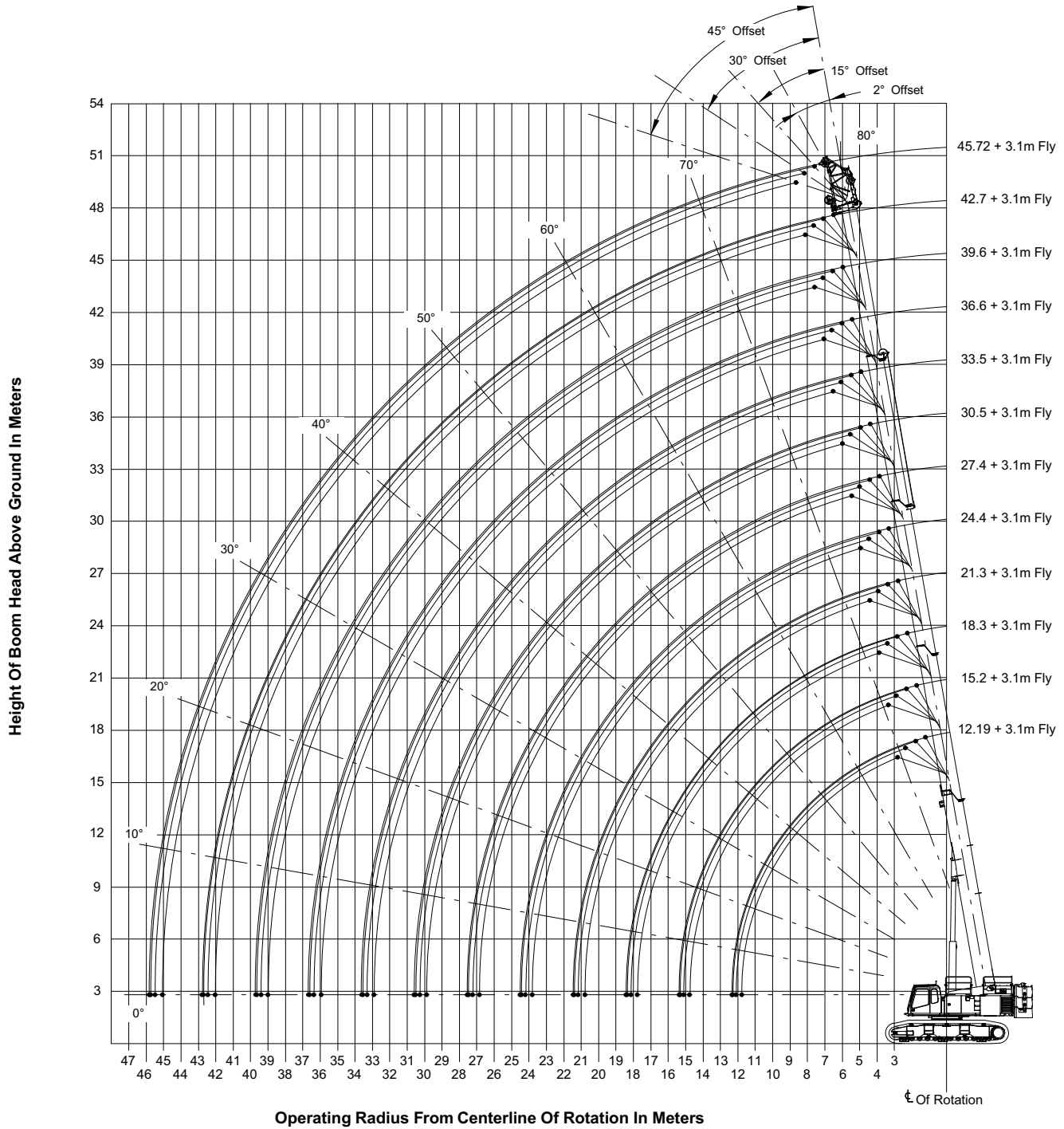
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Main Boom Lift Capacity Chart – 360° Rotation – Fully Extended Tracks ABC+A 34 473kg Counterweight [All capacities are listed in kips (mt)]									
Load Radius m	45.72 m Main Boom Length								Load Radius m
	9.45 m Manual Offset Fly				16.76 m Manual Offset Fly				
	2°	15°	30°	45°	2°	15°	30°	45°	
10.70	7.30								10.70
12.20	7.30				4.60				12.20
13.70	7.30	7.30			4.50				13.70
15.20	7.30	7.30	6.70		4.40				15.20
16.80	7.30	7.30	6.60	6.20	4.40	3.90			16.80
18.30	7.30	7.20	6.50	6.10	4.30	3.80			18.30
19.80	7.30	7.10	6.40	6.00	4.20	3.80			19.80
21.30	7.30	7.00	6.40	6.00	4.10	3.70	3.30		21.30
22.90	7.30	6.90	6.30	5.90	4.10	3.60	3.30		22.90
24.40	6.80	6.80	6.20	5.90	4.00	3.60	3.20	3.00	24.40
25.90	6.30	6.40	6.20	5.90	3.90	3.50	3.20	3.00	25.90
27.40	5.80	5.90	6.10	5.90	3.90	3.40	3.10	2.90	27.40
29.00	5.30	5.50	5.70	5.90	3.80	3.40	3.10	2.90	29.00
30.50	4.90	5.10	5.30	5.40	3.70	3.40	3.10	2.90	30.50
32.00	4.50	4.70	4.90	5.00	3.70	3.30	3.00	2.90	32.00
33.50	4.10	4.30	4.50	4.60	3.60	3.30	3.00	2.90	33.50
35.10	3.80	3.90	4.10	4.20	3.50	3.20	3.00	2.90	35.10
36.60	3.40	3.50	3.70	3.80	3.40	3.20	3.00	2.90	36.60
38.10	3.00	3.20	3.40	3.40	3.10	3.10	2.90	2.90	38.10
39.60	2.80	2.90	3.00	3.10	2.90	3.10	2.90	2.90	39.60
41.10	2.50	2.60	2.70	2.80	2.70	2.80	2.90	2.90	41.10
42.70	2.20	2.40	2.40	2.40	2.40	2.60	2.80	2.90	42.70
44.20	2.00	2.10	2.20		2.20	2.40	2.50	2.60	44.20
45.70	1.80	1.90	1.90		2.00	2.20	2.30	2.40	45.70
47.20	1.60	1.60	1.70		1.90	2.00	2.10	2.20	47.20
48.80	1.40	1.50	1.50		1.60	1.80	1.90	2.00	48.80
50.30	1.20	1.30			1.50	1.60	1.70	1.80	50.30
51.80	1.00	1.10			1.30	1.50	1.50		51.80
53.30					1.10	1.30	1.30		53.30
54.90					1.00	1.10	1.10		54.90
56.40					0.90	1.00	1.00		56.40
57.90					0.70	0.80			57.90
59.40					0.60	0.60			59.40

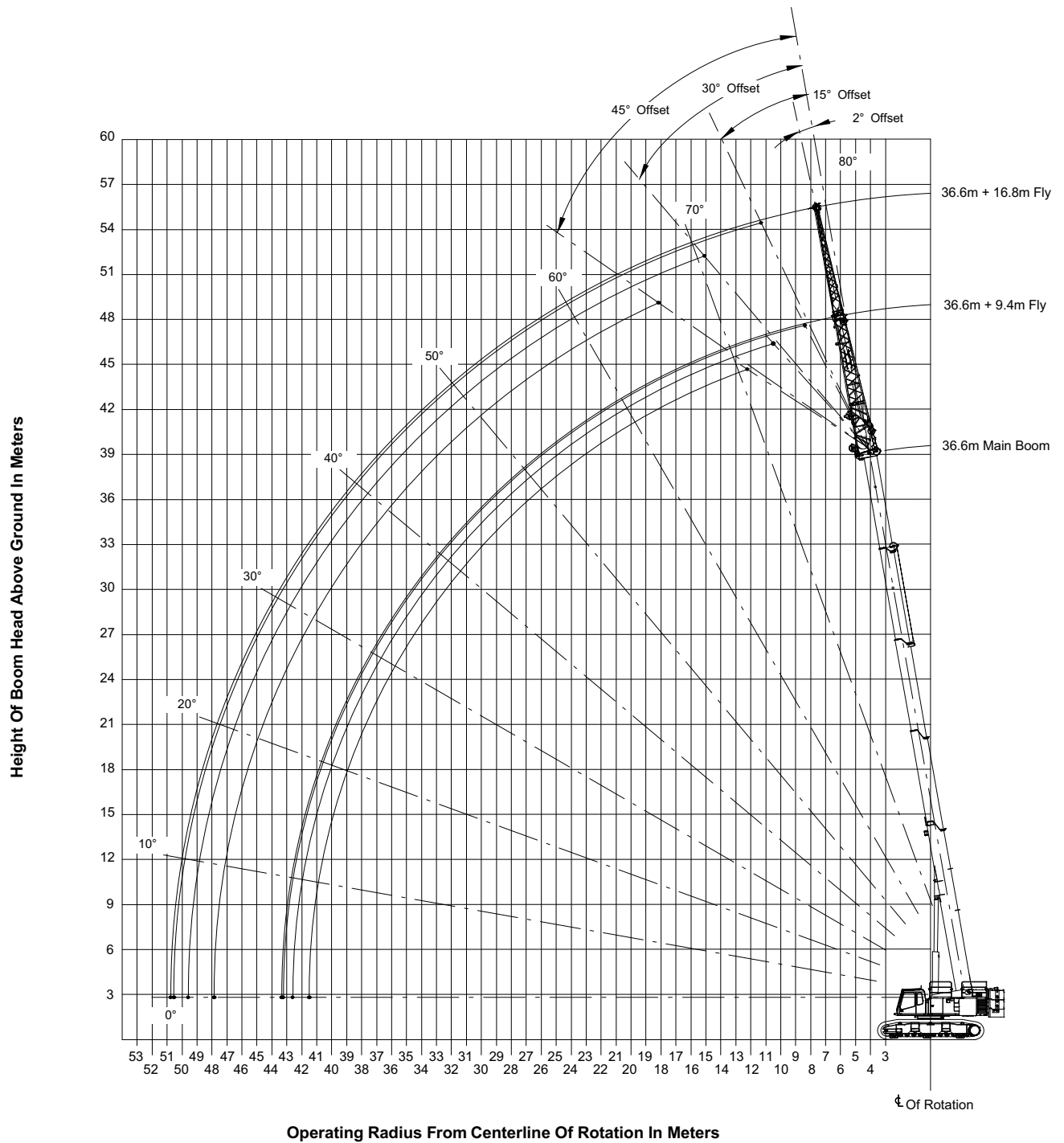
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Working Range Diagrams – Metric

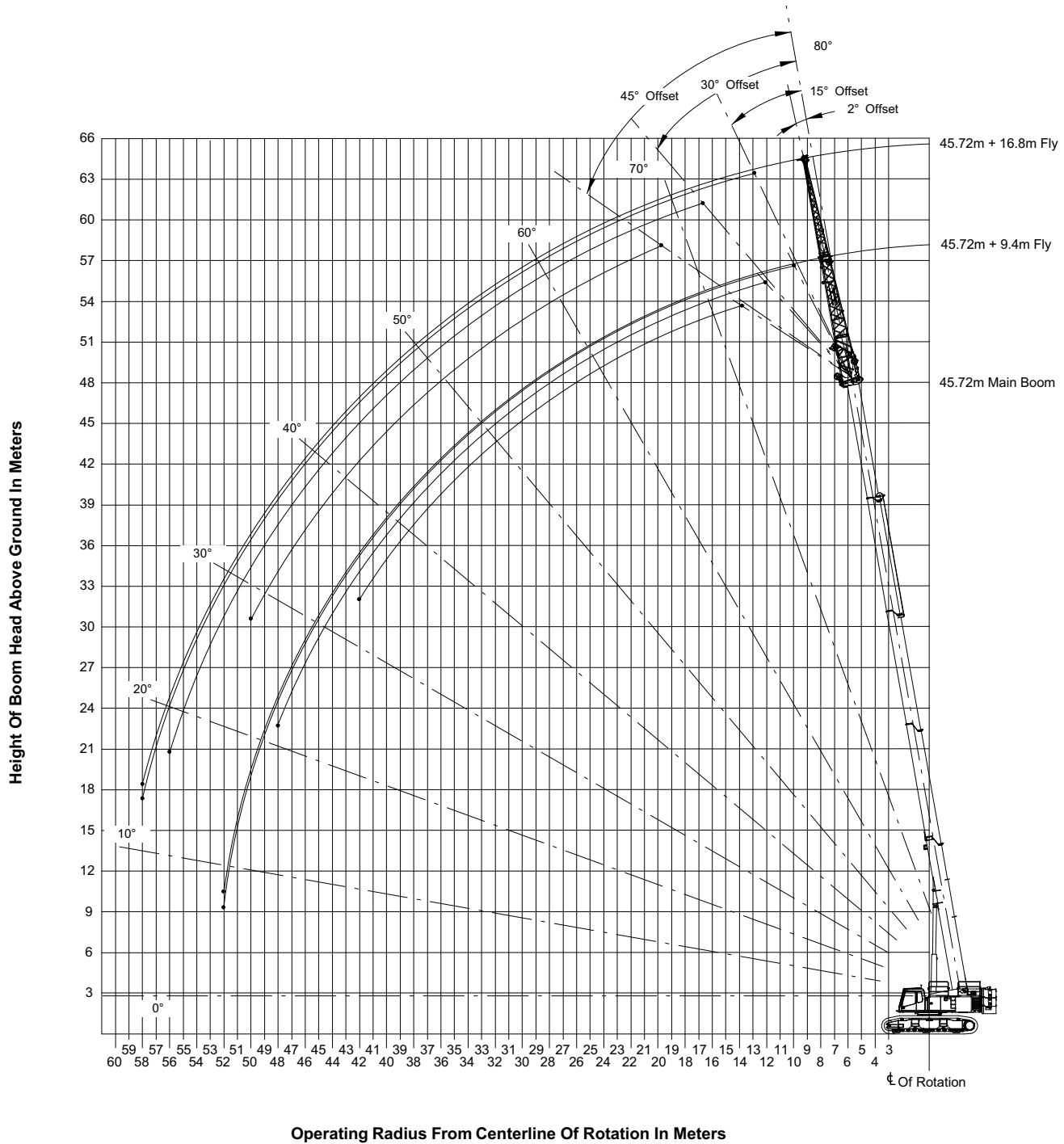
12.19-45.72m Main Boom + 3.1 Fly



36.6m Main Boom + 9.4-16.8m Fly



45.72m Main Boom + 9.4-16.8m Fly



Main Boom Load Charts – Metric

Main Boom Lift Capacity Chart – 360° Rotation – Fully Extended Tracks ABC+A [34 473kg] Counterweight [All capacities are listed in kips (mt)]																
Load Radius m	Main Boom															Load Radius m
	Boom Length – m															
	12.19	15.2	18.3	21.3	24.4	27.4	28.96	30.5	33.5	36.6	37.34	39.6	42.7	45.72		
3	110.0	48.60	47.80	46.00			"Amax1"				"Amax2"				3	
3.5	91.80	48.60	47.80	46.00											3.5	
4	80.30	48.60	47.80	46.00	45.95										4	
4.5	71.40	48.60	47.80	46.00	44.20	37.10		25.60							4.5	
5	64.20	48.60	47.80	46.00	41.50	37.10		25.60							5	
6	53.50	48.60	47.80	46.00	37.05	33.55	29.85	25.60	25.40						6	
7	45.90	48.60	47.80	42.40	33.30	30.25	29.05	25.60	25.40						7	
8	40.10	41.65	41.35	38.40	30.15	27.40	26.30	24.75	25.40	26.30	17.20				8	
9	34.60	34.45	34.30	34.10	27.55	25.00	24.00	24.25	25.40	23.55	17.20	22.30	17.40	13.60	9	
10		29.15	29.00	28.85	25.20	24.70	22.00	24.25	24.75	21.70	17.20	20.55	17.40	13.60	10	
12		21.85	21.80	23.50	23.65	23.00	18.70	23.00	21.30	18.65	15.40	17.70	17.00	13.60	12	
14			18.40	18.40	18.85	18.95	16.10	18.30	18.35	16.25	13.50	15.40	14.85	13.60	14	
16				15.30	15.50	15.65	13.50	14.95	15.00	14.30	12.00	13.55	13.05	12.50	16	
18				12.75	12.95	13.10	11.05	12.85	12.50	12.50	10.75	12.00	11.55	11.10	18	
20					11.00	11.15	9.15	11.25	10.65	10.60	9.65	10.60	10.30	10.00	20	
22						9.60	7.65	9.70	9.65	9.10	8.75	9.15	9.15	9.10	22	
24						8.35	6.40	8.45	8.55	7.85	7.95	7.90	7.90	7.90	24	
26							5.35	7.40	7.50	6.80	7.30	6.85	6.85	6.85	26	
28									6.60	5.90	6.70	5.95	5.95	6.00	28	
30									5.85	5.15	5.95	5.20	5.20	5.25	30	
32										4.50	5.30	4.55	4.55	4.60	32	
34											4.70	4.00	4.00	4.00	34	
36												3.50	3.50	3.50	36	
38													3.05	3.05	38	
40													2.65	2.70	40	
42														2.35	42	

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Main Boom Lift Capacity Chart – 360° Rotation – Fully Extended Tracks
ABC+A [34 473kg] Counterweight
[All capacities are listed in kips (mt)]

Load Radius m	Main Boom + 3.1m Manual Offset Fly (2° Offsets)												Load Radius m
	Boom Length – m												
	12.19	15.20	18.30	21.30	24.40	27.40	30.50	33.50	36.60	39.60	42.70	45.72	
3	28.30	23.55											3
3.5	28.30	23.55	23.55										3.5
4	28.30	23.55	23.55										4
4.5	28.30	23.55	23.55	24.00									4.5
5	28.30	23.55	23.55	24.00	24.00								5
6	28.15	23.55	23.55	24.00	24.00	24.90							6
7	26.40	23.55	23.55	24.00	24.00	24.90	25.40	27.20					7
8	24.90	23.55	23.55	24.00	24.00	24.90	25.40	25.15	23.50				8
9	23.60	23.55	23.55	24.00	24.00	24.90	25.40	23.35	21.65	17.75			9
10	22.55	23.55	23.55	24.00	24.00	24.90	25.40	21.75	19.95	17.75	14.10	10.95	10
12	21.10	22.85	23.10	23.05	23.05	22.95	22.90	19.10	17.25	16.35	14.10	10.95	12
14			18.35	18.30	18.30	18.25	18.20	17.05	15.05	14.25	13.70	10.95	14
16				14.95	14.95	14.90	14.85	14.85	13.20	12.50	12.05	10.95	16
18				12.45	12.40	12.40	12.35	12.35	11.70	11.05	10.37	9.05	18
20					10.50	10.15	10.45	10.40	10.40	9.85	9.45	9.05	20
22						8.95	8.95	8.95	8.95	8.85	8.50	8.20	22
24						7.70	7.70	7.70	7.70	7.70	7.60	7.30	24
26							6.65	6.65	6.65	6.65	6.65	6.55	26
28								5.80	5.75	5.75	5.75	5.75	28
30								5.05	5.00	5.00	5.00	5.00	30
32									4.35	4.35	4.35	4.35	32
34										3.80	3.80	3.75	34
36										3.30	3.30	3.30	36
38											2.85	2.85	38
40												2.45	40
42												2.10	42

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Main Boom Lift Capacity Chart – 360° Rotation – Fully Extended Tracks ABC+A [34 473kg] Counterweight [All capacities are listed in kips (mt)]													
Load Radius m	Main Boom + 3.1m Manual Offset Fly (15° Offsets)												Load Radius m
	Boom Length – m												
	12.19	15.20	18.30	21.30	24.40	27.40	30.50	33.50	36.60	39.60	42.70	45.72	
3	28.30	23.55											3
3.5	28.30	23.55	23.55										3.5
4	27.50	23.55	23.55										4
4.5	26.75	23.55	23.55	24.00									4.5
5	26.00	23.55	23.55	24.00									5
6	24.75	23.55	23.55	24.00	24.00	24.90							6
7	23.65	23.55	23.55	24.00	24.00	24.90	25.40	26.50					7
8	22.75	23.55	23.55	24.00	24.00	24.90	25.40	24.55	23.00				8
9	22.00	23.35	23.55	24.00	24.00	24.90	25.40	22.85	21.45	17.75			9
10	21.40	22.60	23.55	24.00	24.00	24.90	25.25	21.35	20.05	17.75	14.10	10.95	10
12	21.05	21.55	22.50	23.30	23.25	23.20	23.10	18.90	17.40	16.50	14.10	10.95	12
14		18.50	18.50	18.55	18.50	18.45	18.45	16.85	15.15	14.40	13.80	10.95	14
16				15.10	15.10	15.10	15.05	15.00	13.35	12.65	12.15	10.95	16
18				12.55	12.55	12.55	12.55	12.50	11.80	11.15	10.75	9.05	18
20					10.60	10.60	10.60	10.55	10.50	9.95	9.55	9.05	20
22						9.05	9.10	9.10	9.05	9.00	8.60	8.30	22
24						7.80	7.80	7.80	7.80	7.80	7.70	7.40	24
26							6.75	6.75	6.75	6.75	6.75	6.65	26
28								5.85	5.85	5.85	5.85	5.85	28
30								5.10	5.10	5.10	5.10	5.10	30
32									4.45	4.45	4.40	4.40	32
34										3.85	3.85	3.85	34
36										3.35	3.35	3.35	36
38											2.90	2.90	38
40												2.50	40
42												2.15	42

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Main Boom Lift Capacity Chart – 360° Rotation – Fully Extended Tracks ABC+A [34 473kg] Counterweight [All capacities are listed in kips (mt)]													
Load Radius m	Main Boom + 3.1m Manual Offset Fly (30° Offsets)												Load Radius m
	Boom Length – m												
	12.19	15.20	18.30	21.30	24.40	27.40	30.50	33.50	36.60	39.60	42.70	45.72	
3	24.90	23.55											3
3.5	24.40	23.55	23.55										3.5
4	23.90	23.55	23.55										4
4.5	23.45	23.55	23.55	24.00									4.5
5	23.05	23.55	23.55	24.00									5
6	22.35	23.05	23.55	23.90	23.90	23.85							6
7	21.80	22.45	23.55	23.35	23.45	23.40	23.35						7
8	21.35	21.95	23.00	22.85	23.00	23.00	22.95	22.75					8
9	21.05	21.55	22.50	22.40	22.60	22.65	22.60	22.45	21.10	17.75			9
10	20.95	21.25	22.05	22.05	22.25	22.30	22.30	21.00	19.80	17.75	14.10		10
12	20.95	20.90	21.70	21.40	21.60	21.70	21.75	18.65	17.55	16.60	14.10	10.95	12
14		18.60	21.15	18.75	18.70	18.70	18.65	16.70	15.35	14.55	14.10	10.95	14
16			18.70	15.25	15.30	15.25	15.25	15.05	13.50	12.80	12.30	10.95	16
18				12.65	12.70	12.70	12.70	12.65	11.95	11.35	10.90	9.05	18
20					10.70	10.70	10.70	10.70	10.65	10.10	9.70	9.05	20
22						9.15	9.20	9.20	9.20	9.10	8.75	8.40	22
24						7.85	7.90	7.90	7.90	7.90	7.85	7.55	24
26							6.80	6.80	6.85	6.85	6.85	6.75	26
28								5.90	5.90	5.95	5.95	5.95	28
30									5.15	5.15	5.15	5.15	30
32									4.50	4.50	4.50	4.50	32
34										3.90	3.90	3.90	34
36											3.40	3.40	36
38											2.95	2.95	38
40												2.50	40

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Main Boom Lift Capacity Chart – 360° Rotation – Fully Extended Tracks ABC+A [34 473kg] Counterweight [All capacities are listed in kips (mt)]													
Load Radius m	Main Boom + 3.1m Manual Offset Fly (45° Offsets)												Load Radius m
	Boom Length – m												
	12.19	15.20	18.30	21.30	24.40	27.40	30.50	33.50	36.60	39.60	42.70	45.72	
3													3
3.5	22.15												3.5
4	21.85	22.15											4
4.5	21.65	21.90	22.10										4.5
5	21.45	21.75	21.90										5
6	21.15	21.40	21.60	21.70	21.65	21.55							6
7	20.95	21.15	21.30	21.40	21.40	21.35	21.20						7
8	20.90	20.95	21.10	21.20	21.20	21.10	21.00	20.85					8
9	20.90	20.90	20.95	21.00	21.00	20.95	20.00	20.70	20.20				9
10	20.90	20.90	20.85	20.90	20.85	20.80	85.00	20.55	19.65	17.85			10
12		20.90	20.85	20.75	20.65	20.60	20.70	18.55	17.45	16.55	14.15	11.05	12
14				18.85	18.80	18.80	20.50	16.65	15.55	14.75	14.10	11.05	14
16				15.35	15.40	15.40	18.80	15.00	1..635	12.95	12.50	11.05	16
18					12.80	12.80	15.40	12.80	12.10	11.50	11.05	10.65	18
20						10.80	12.80	10.80	10.80	10.20	9.80	9.20	20
22							10.80	9.30	9.30	9.20	8.85	8.55	22
24							9.25	7.95	8.00	8.00	7.95	7.65	24
26									6.90	6.90	6.90	6.85	26
28										6.00	6.00	6.00	28
30											5.20	5.20	30
32												4.55	32

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Jib Attachment Load Charts – Metric

Main Boom Lift Capacity Chart – 360° Rotation – Fully Extended Tracks ABC+A 34 473kg Counterweight [All capacities are listed in kips (mt)]											
Load Radius m	36.6m Main Boom Length										Load Radius m
	9.4m Manual Offset Fly					16.8m Manual Offset Fly					
	2°	15°		30°	45°	2°	15°	30°		45°	
10	13.10					6.25					10
12	12.30	9.25				5.95					12
14	11.60	8.85		7.60		5.70					14
16	10.95	8.50		7.40	6.70	5.45	4.65				16
18	10.35	8.20		7.20	6.55	5.20	4.50				18
20	9.10	7.90		7.00	6.45	5.00	4.30	3.75			20
22	8.70	7.65		6.85	6.40	4.80	4.15	3.65		3.35	22
24	8.05	7.40		6.70	6.35	4.60	4.05	3.60		3.30	24
26	7.05	7.20		6.55	6.30	4.45	3.90	3.50		3.25	26
28	6.15	6.40		6.45	6.30	4.25	3.80	3.40		3.20	28
30	5.40	5.60		5.80	5.95	4.10	3.70	3.35		3.15	30
32	5.75	4.95		5.10	5.20	3.95	3.60	3.30		3.15	32
34	4.20	4.35		4.50	4.55	3.85	3.50	3.25		3.15	34
36	3.70	3.85		3.95		3.70	3.40	3.20		3.15	36
38	3.25	3.35		3.45		3.60	3.35	3.20		3.15	38
40	2.85	2.95		3.00		3.25	3.30	3.15		3.15	40
42	2.50	2.55				2.90	3.05	3.15		3.15	42
44						2.55	2.70	2.80			44
46						2.25	2.40	2.45			46
48						2.00	2.10				48

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Main Boom Lift Capacity Chart – 360° Rotation – Fully Extended Tracks ABC+A 34 473kg Counterweight [All capacities are listed in kips (mt)]									
Load Radius m	45.72m Main Boom Length								Load Radius m
	9.4m Manual Offset Fly				16.8m Manual Offset Fly				
	2°	15°	30°	45°	2°	15°	30°	45°	
12	7.35								3
14	7.35	7.35			4.55				3.5
16	7.35	7.35	6.65		4.40				4
18	7.35	7.20	6.55	6.10	4.30	3.85			4.5
20	7.35	7.10	6.45	6.05	4.20	3.75			5
22	7.35	6.95	6.35	6.00	4.10	3.65	3.30		6
24	6.90	6.80	6.25	5.95	4.00	3.60	3.25		7
26	6.20	6.40	6.15	5.90	3.90	3.50	3.20	3.00	8
28	5.60	5.75	5.95	5.90	3.85	3.45	3.15	2.95	9
30	5.00	5.20	5.35	5.55	3.75	3.35	3.10	2.95	10
32	4.50	4.70	4.85	4.95	3.65	3.30	3.50	2.90	12
34	4.00	4.20	4.35	4.50	3.60	3.25	3.00	2.90	14
36	3.50	3.70	3.85	3.95	3.50	3.20	3.00	2.90	16
38	3.10	3.25	3.35	3.45	3.15	3.15	2.95	2.90	18
40	2.70	2.80	2.95	3.00	2.85	3.00	2.95	2.90	20
42	2.35	2.45	2.55	2.60	2.55	2.70	2.85	2.90	22
44	2.00	2.10	2.20		2.25	2.40	2.55	2.70	24
46	1.75	1.80	1.85		2.00	2.15	2.30	2.35	26
48	1.45	1.55	1.55		1.75	1.90	2.00	2.10	28
50	1.25	1.30			1.50	1.65	1.75	1.80	30
52	1.05	1.05			1.30	1.40	1.50		32
54					1.10	1.20	1.25		34
56					0.90	0.95	1.00		36
58					0.75	0.75			38

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