XGC110U CRAWLER CRANE

Technical Specification

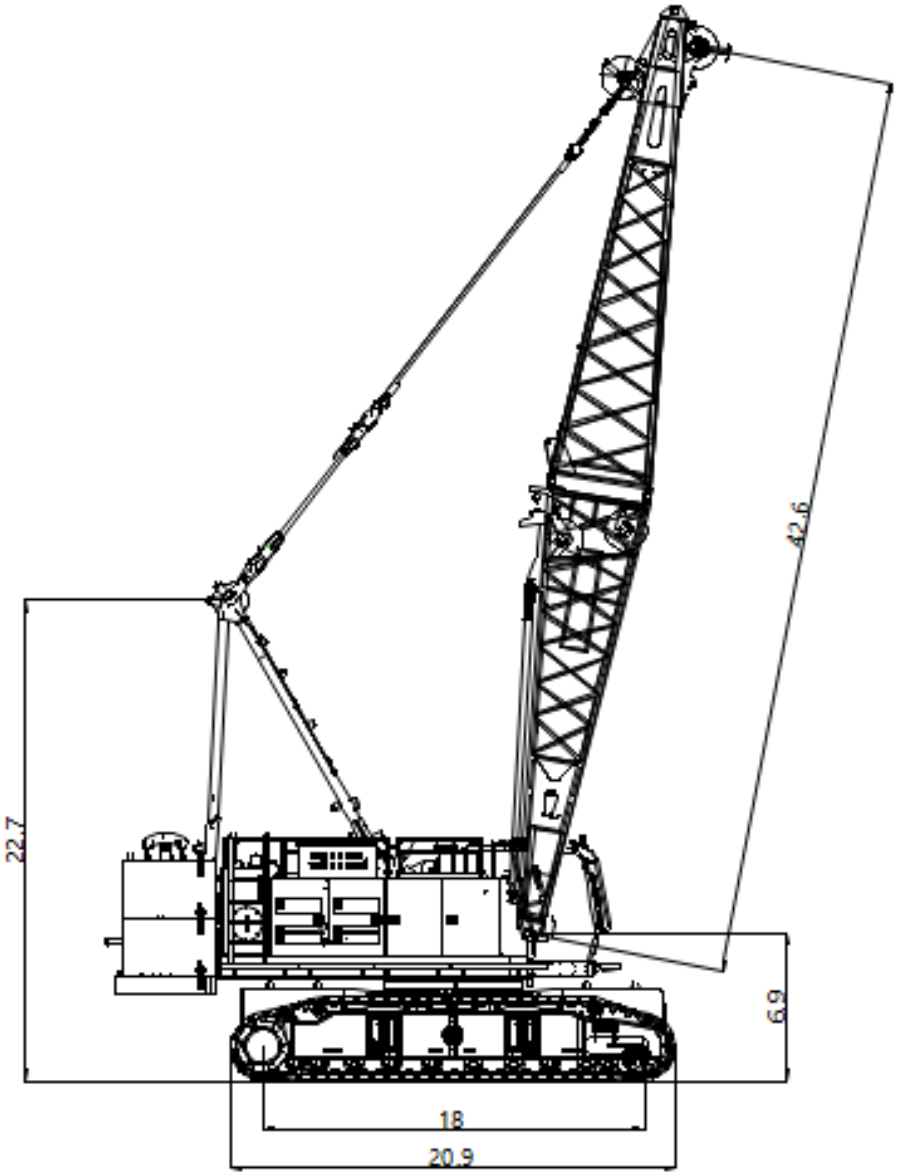


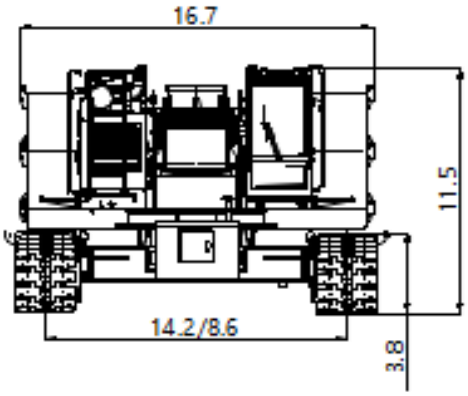
Max	110 Ust (220.0 klb)
	200.0 ft
	232.8 ft

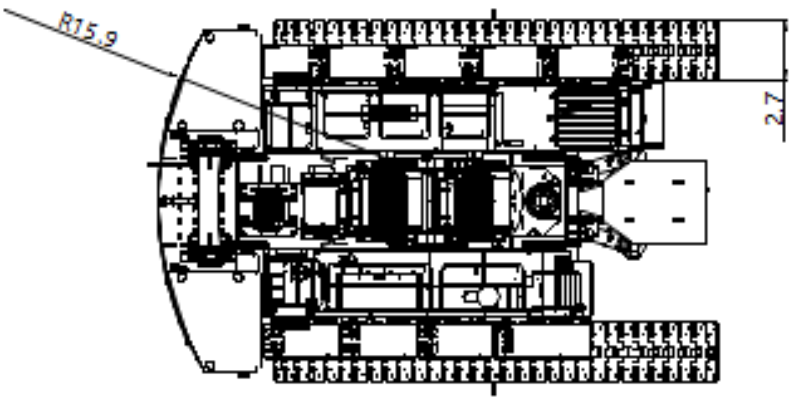
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Dimension parameters (ft)







Technical specifications

➢ Cab

- The cab is fully enclosed, constructed from all-steel modular panels, and equipped with lockable sliding doors, soundproof lining, anti-slip flooring, and safety glass for enhanced security and comfort. Steps are provided for easy access to the cab.
- Front windshield can be opened outwards, with wide vision and comfortable and easy operation.
- Air conditioner has a defrosting function, and the air outlet can be controlled in different zones.
- Adjustable seat headrest, with three-point safety belt.
- An air suspension seat is provided.

➢ Engine

- Brand/model: Cummins, QSL9
- Emission standard: Stage V/Tier 4 final
- Rated power: 337.9 bhp
- Rated speed: 1800 rpm
- Max. output torque: 1125.5 lb・ft
- Speed at maximum output torque: 1,400 rpm
- Fuel tank capacity: 105.6 US gal

➢ Traveling gear

- It is driven by a built-in planetary gear reducer and an axial piston variable displacement motor. The reducer has a hydraulic release traveling brake to ensure safe and reliable operation. The left and right traveling mechanisms can be operated synchronously or separately for straight driving and turning.

➢ Car-body

- Car-body, crafted from high-strength steel and designed with a box-like structure, includes a central transverse partition that enhances torsional stiffness. It boasts a simple yet robust design with excellent load-bearing capacity and rigidity.
- It is equipped with outrigger oil cylinders for the assembly, disassembly and transportation of the crane, and these cylinders are hinged to the outer side of the car-body through pin shafts.

➢ Crawler frame

- Including crawler beam, upper roller, lower roller, idler, drive sprocket and track shoes. The crawler beam is designed with a box-shaped structure, featuring local reinforcements at the connection to car-body and a transverse partition positioned centrally. The two crawler frames are arranged symmetrically. The rollers and track shoes are made of high-strength alloy cast steel, with a track shoe width of 2.7 ft.

➢ A-frame

- The design features a dual-limb structure, reinforced with crossbeams between the limbs for enhanced stability. The main structure of the A-frame is high-quality seamless steel pipe, which effectively reduces welding, has few manufacturing defects and high safety factor. The A-frame can be adjusted to two positions: raised for operation and lowered for transport.

Technical specifications

➢ Hydraulic system

- Hydraulic system includes hoisting, luffing, slewing, traveling and auxiliary systems.
- Main system features an electronic control system, ensuring precise speed control, flexible operation, and excellent fine motion capabilities. The system supports complex multi-action operations, boasts a compact design, and is easy to maintain. It includes an automatic direction-reversal feature for movement controls and multiple pressure sensors that continuously monitor operational pressure. Designated pressure test points on each circuit allow for easy monitoring and fault diagnosis, significantly enhancing the product's usability, maintenance, and repair efficiency.
- Main and auxiliary hoisting systems adopt quick release winches, complemented by precise hydraulic system controls, enabling rapid load releases for both winches. The slewing mechanism utilizes an electronically controlled closed system, ensuring smooth, gentle starts and stops, which are ideal for precision lifting tasks.
- Capacity of hydraulic oil tank: 184.9 us gal

➢ Electrical system

- Electrical system mainly consists of engine control, monitoring instruments, auxiliary equipment, hydraulic system control, load moment indicator and safety control.
- Electrical system consists of conventional electrical system and PLC control system.
- Conventional electrical system consists of power supply, start control, cab A/C and audio, lighting, wipers, etc.
- PLC control system manages the main and auxiliary winches, slewing, main boom luffing, and engine status monitoring, with all operations controlled through PLC logic via CAN-bus technology.

Battery No.	Quantity	Total rated voltage	Total rated capacity
6-QAW-180D	2	24V	360Ah

➢ Hoisting system

- Hoisting system includes main and auxiliary hoisting systems.
- For main and auxiliary hoisting systems, the planetary gear reducer is driven by a constant displacement motor. Main or auxiliary hook can lift and lower through drums and pulley blocks, and the lifting speed of the main and auxiliary hoisting systems is improved through the oil supply function of double pumps.
- Main and auxiliary hoisting systems are provided with built-in planetary reducers, which adopt negative braking design multi-disc wet laminated normally closed brakes to realize the function of “spring braking/hydraulic release”, which is safe and reliable. It uses splash oil lubrication, requiring no maintenance. The hoisting system also features easy oil change, low noise, high efficiency and long service life. Additionally, it is excellent in fine motion performance.
- The drum is welded and machined from Q345D steel plates, and incorporates a double helical groove design to ensure organized multi-layer winding of the wire rope, significantly enhancing its longevity.
- Main and auxiliary hoisting systems are provided with special anti-rotation steel wire ropes with independent steel core, high breaking force and high extrusion resistance.

Main hoisting system	Drum diameter	22.0 in
	Rope speed at outermost working layer	423.2 fpm
	Diameter of wire rope	1.02 in
	Length of winch wire rope	787.4 ft
	Rated single rope tension	26.4 klb

Auxiliary hoisting system	Drum diameter	22.0 in
	Rope speed at outermost working layer	423.2 fpm
	Diameter of wire rope	1.02 in
	Length of winch wire rope	508.5 ft
	Rated single rope tension	26.4 klb

Technical specifications

➢ Boom

- The boom features a spatial truss design with uniform central sections and variable end sections, constructed from welded high-strength steel tubing. High-strength steel plates reinforce both the top and base of the boom, enhancing load distribution.
- Main boom length: 42.6 ft~200.1 ft.
- Boom combination: The bottom section is 21.3 ft long and top section is 21.3 ft long, working with three kinds of insert sections of 9.8 ft, 19.6 ft and 29.5 ft, to make the length vary from 42.6 ft to 200.1 ft.
- The bottom section is provided with a pulley for self-disassembly and assembly of components such as counterweight, boom sections and crawler beam.

➢ Fixed jib, luffing jib

- Max. fixed jib capacity: 26.4 klb
- Fixed jib length 22.9 ft~62.3 ft, fixed jib angle 10 °~30 °

➢ Hook

- There are 4 types of hooks available, which can be flexibly selected by customers according to their needs. The specific parameters are as follows:

Description	Dead weight	Number of pulleys
220.4 klb hook (optional)	3.6 klb	5
176.3 klb Hook	2.0 klb	3
70.5 klb hook (optional)	1.5 klb	1
29.7 klb Hook	1.1 klb	—

➢ Counterweight

- It totals 70.6 klb, consisting of a self-disassembly device of 2.2 klb, a counterweight tray of 15.5 klb, and four counterweight slabs of 13.3 klb. There are 4 combinations of turntable counterweight, as shown in the table below.

S/N	Turntable counterweight weight	Assembly mode of counterweights
1	0	0
2	17.6 klb	17.6 klb
3	44.0 klb	17.6 klb + 13.3 klb+ 13.3 klb
4	70.5 klb	17.6 klb + 13.3 klb+ 13.3 klb+ 13.3 klb+ 13.3 klb

- Undercarriage counterweight weighs 30.8 klb, including 2 counterweights of 15.4 klb.

Safety devices

➢ Load moment indicator

- System consists of a large-screen color LCD, host computer, angle sensor, tension sensor and pressure sensor.
- It has complete functions of early warning and overload stop. If the actual load exceeds the designated capacity or the lifting boom exceeds its limit angle, the load moment indicator will trigger an alarm and restrict the current movement.
- Load moment indicator system has the function of fault self-diagnosis.

➢ Over-wound prevention device for main and auxiliary hooks

- It is designed to prevent the hooks from being over-lifted. When the hook is lifted to a certain height, the limit switch acts, and the control system automatically stops the lifting of the hook. At the same time, the display and buzzer give an alarm. In this case, only the hook can be lowered to prevent over-hoisting of the hook.

➢ Over-released prevention device for main and auxiliary hooks

- It is designed to prevent the over-releasing of winch wire rope. When the wire rope is released to the last three circles, the limit switch acts and the control system automatically cuts off the releasing action. At the same time, the display and buzzer give an alarm. In this case, only rope retraction operation can be carried out to prevent the over-lowering of hooks.

➢ Angle limit device for boom

- In working mode, when boom luffs to the maximum operating angle and over-raise switch detects this signal, load moment indicator stops the raising of boom and simultaneously trigger the alarms on the display and buzzer. At this time, the corresponding boom raising operation is disabled, but the lowering action can be conducted.
- In working mode, when boom luffs to the minimum operating angle, load moment indicator stops the lowering of boom automatically while simultaneously trigger the alarms on the display and buzzer. At this time, the corresponding boom lowering operation is disabled.

➢ Mis-operation prevention function

- The handle has an mis-operation prevention function. A safety protection switch is arranged on the front side of the handle. When this switch is not pressed, all action signals are shielded and the handle does not work to prevent mis-operation.

Optional parts

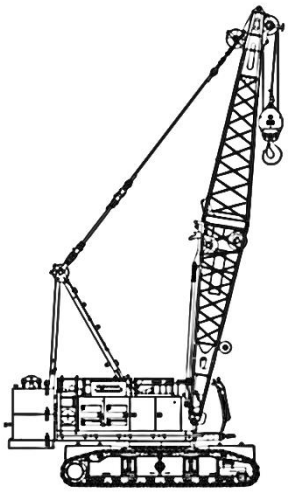
➢ Optional parts

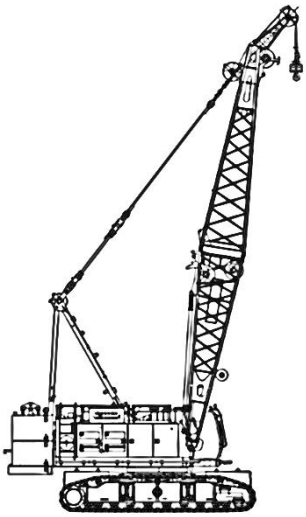
S/N	Item
1	220.4 klb, 70.5 klb hooks
2	Engine cold start device
3	Hoisting winch III

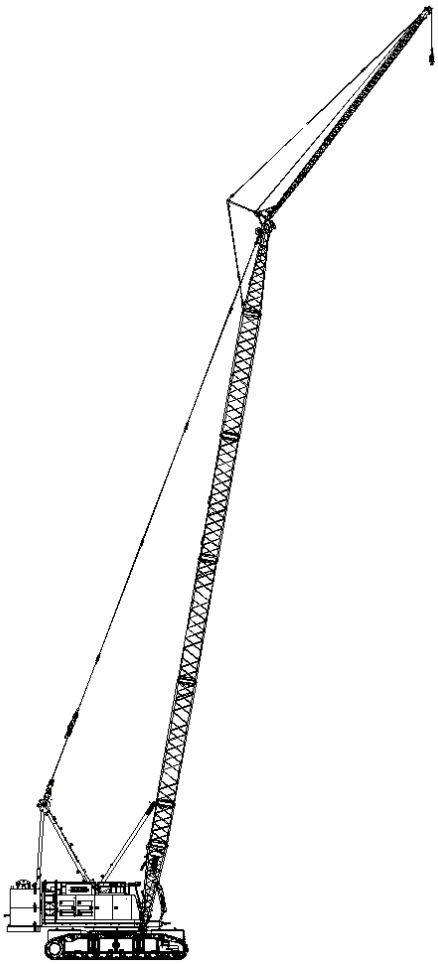
Main technical parameters

Item		Unit	Parameters
Max. rated lifting capacity	Main boom operation mode	klb	220.4
	Boom end single pulley operation mode	klb	26.4
	Fixed jib operation mode (without main hook)	klb	26.4
Max. lifting moment	Main boom operation mode	ft-kips	2904
	Fixed jib operation mode	ft-kips	1750.3
	Boom end single pulley operation mode	ft-kips	1798.1
Dimension parameters	Main boom length	ft	42.6 ~ 200.1
	Main boom luffing angle	°	30~81
	Fixed jib length	ft	22.9~62.3
	Angle between main boom and fixed jib	°	10、30
	Boom end single pulley	ft	3.6
Speed parameters	Max. single rope speed for hoisting system	fpm	423.2
	Max. single rope speed for main boom luffing system	fpm	360.8
	Max. slewing speed	rpm	1.85
	Max. travel speed	mph	1.3
Engine	Engine model	–	Cummins QSL9
	Rated power of engine	bhp	337.9
	Rated speed of engine	rpm	1800
	Emission standard	–	Stage V/Tier 4 final
Overall mass (based on 42.6 ft basic boom and 176.3 klb lifting hook)		klb	217.1
Average ground pressure		MPa	0.102
Gradeability		–	30%
Max. mass of single piece during transport		klb	68.1
Max. dimension of single piece (basic crane, without crawler tracks) in transport state ((L ×W ×H))		ft	43.9×10.8×10.4

Operation modes and lifting performance



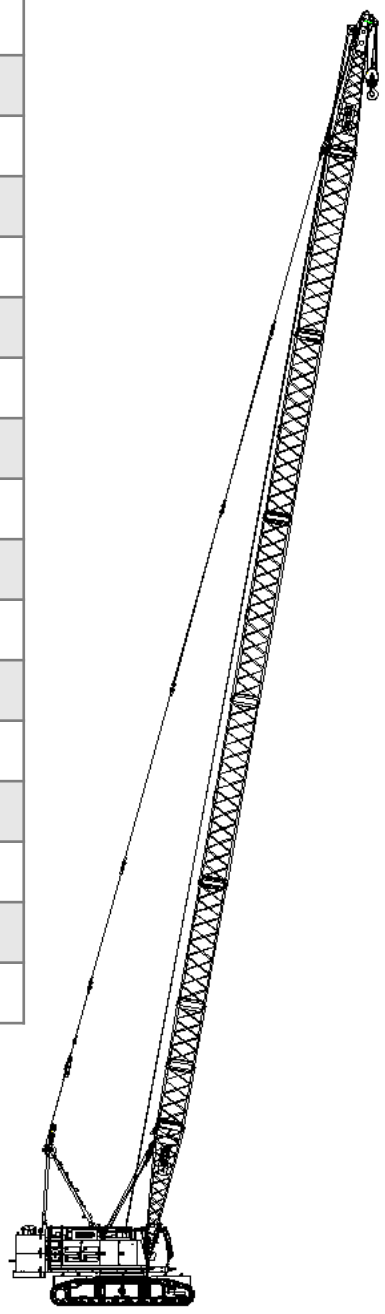




Main boom operation mode	Boom end single pulley operation mode (main boom without hook)	Fixed jib operation mode (main boom without hook)
Main boom: 42.6 ft to 200.1 ft	Main boom: 42.6 ft to 200.1 ft Boom end single pulley: 3.6 ft	Main boom: 101.7 ft~170.6 ft Jib: 22.9 ft to 62.3 ft

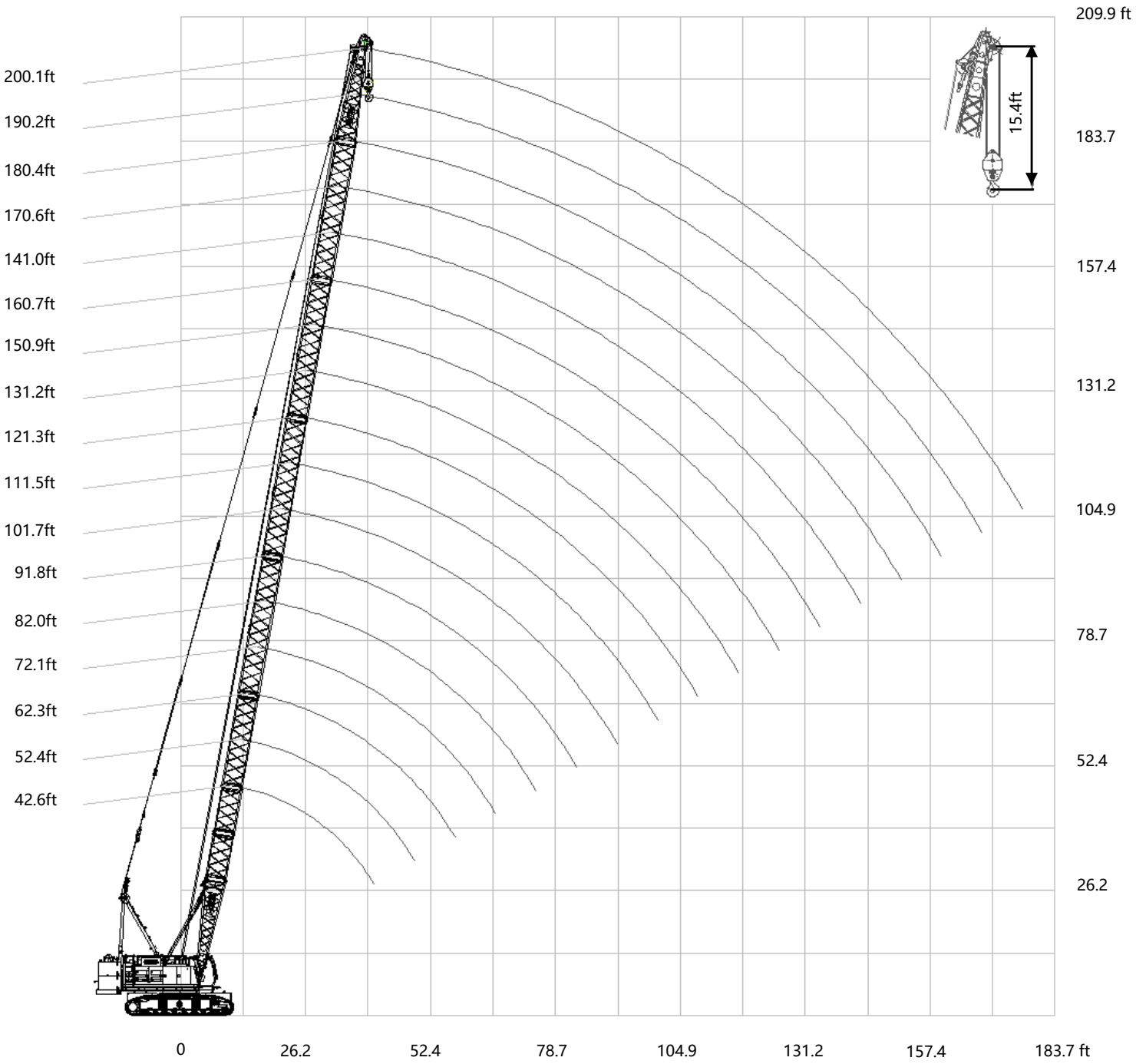
Operation modes and lifting performance – main boom operation mode

Main boom combination			
Main boom length	Length of insert section		
	9.8ft	19.6ft	29.5ft
42.6ft	—	—	—
52.4ft	1	—	—
62.3ft	—	1	—
72.1ft	—	—	1
82.0ft	1	—	1
91.8ft	—	1	1
101.7ft	1	1	1
111.5ft	1	—	2
121.3ft	—	1	2
131.2ft	—	—	3
141.0ft	1	—	3
150.9ft	—	1	3
160.7ft	1	1	3
170.6ft	—	2	3
180.4ft	1	2	3
190.2ft	—	3	3
200.1ft	1	3	3
Note: Main boom butt 21.3 ft and main boom top 21.3 ft are required.			

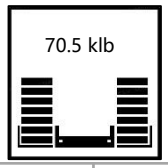


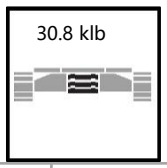
Main boom operation mode

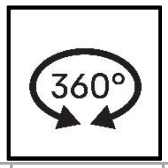
Operation modes and lifting performance - main boom operation mode



Operation modes and lifting performance - main boom operation mode

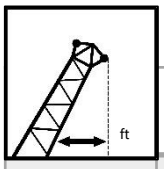
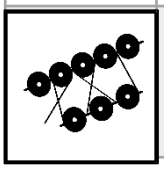




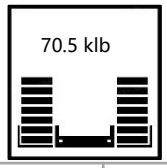


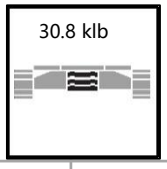
Main boom length: 42.6 ft~121.3 ft

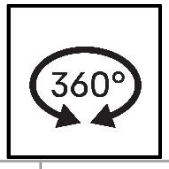
klb

 ft	42.6	52.4	32.3	72.1	82.0	91.8	101.7	111.5	121.3
13.1	220.4	220.4							
14.8	189.5	189.5							
16.4	175.2	175.2	175.2	170.4					
18	160.9	159.3	151.4	144.1					
19.7	147	147	144.8	138.6	132.9				
23	115.7	115.5	115.5	115.5	112.4	108.4			
26.2	95.2	95	95	94.7	94.5	94.1	91	88.1	
29.5	80.6	80.4	80.4	80.2	80	80	79.8	78	75.8
32.8	69.8	69.6	69.6	69.4	69.2	69	69	68.5	68.1
39.4	54.8	54.6	54.6	54.4	54.2	54	53.7	53.5	53.3
45.9		44.7	44.7	44.5	44.3	44	43.8	43.6	43.4
52.5			37.6	37.4	37.2	37	36.8	36.5	36.3
59.1				32.1	31.9	31.7	31.5	31.3	31
65.6				28.2	27.9	27.7	27.5	27.1	26.8
72.2					24.6	24.4	24.2	23.8	23.5
78.7						21.8	21.6	21.1	20.9
85.3							19.1	18.9	18.7
91.9							17.4	17.1	16.7
98.4								15.4	15.2
105									13.8
	10	10	8	8	7	6	6	5	5

Operation modes and lifting performance - main boom operation mode

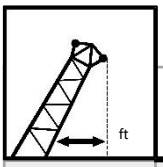
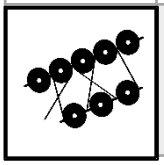




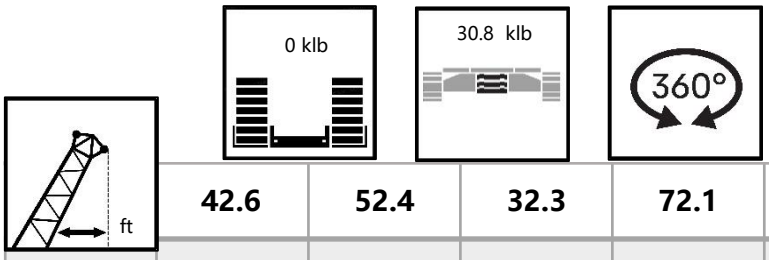


Main boom length: 131.2 ft～200.1 ft

klb

 ft	131.2	141.0	150.9	160.7	170.6	180.4	190.2	200.1
29.5	73.8	71.6						
32.8	66.3	64.3	62.6	61				
39.4	53.1	52.9	52	50.7	49.3	48		
45.9	43.2	42.9	42.5	42.3	41.8	40.7	39.6	38.5
52.5	36.1	35.7	35.4	35.2	35	34.8	34.1	33.2
59.1	30.8	30.4	30.2	29.9	29.7	29.3	29.1	28.8
65.6	26.6	26.4	26	25.7	25.5	25.3	24.9	24.6
72.2	23.3	23.1	22.9	22.4	22.2	22	21.6	21.3
78.7	20.7	20.5	20	19.8	19.6	19.4	18.9	18.7
85.3	18.5	18	17.8	17.6	17.4	16.9	16.7	16.3
91.9	16.5	16.3	16	15.6	15.4	15.2	14.7	14.5
98.4	14.9	14.7	14.3	14.1	13.8	13.4	13.2	12.7
105	13.6	13.2	13	12.7	12.3	12.1	11.9	11.4
111.5	12.3	12.1	11.6	11.4	11.2	10.8	10.5	10.1
118.1		11	10.5	10.3	10.1	9.7	9.2	9
124.7		9.9	9.7	9.4	9	8.5	8.3	7.9
131.2			8.8	8.3	8.1	7.7	7.2	7
137.8				7.7	7.2	6.8	6.6	6.1
144.4					6.6	6.1	5.7	5.5
150.9					5.7	5.5	5	4.6
157.5						4.8	4.4	4.1
164							3.9	3.5
170.6								3
177.2								2.4
	4	4	4	3	3	3	2	2

Operation modes and lifting performance - main boom operation mode



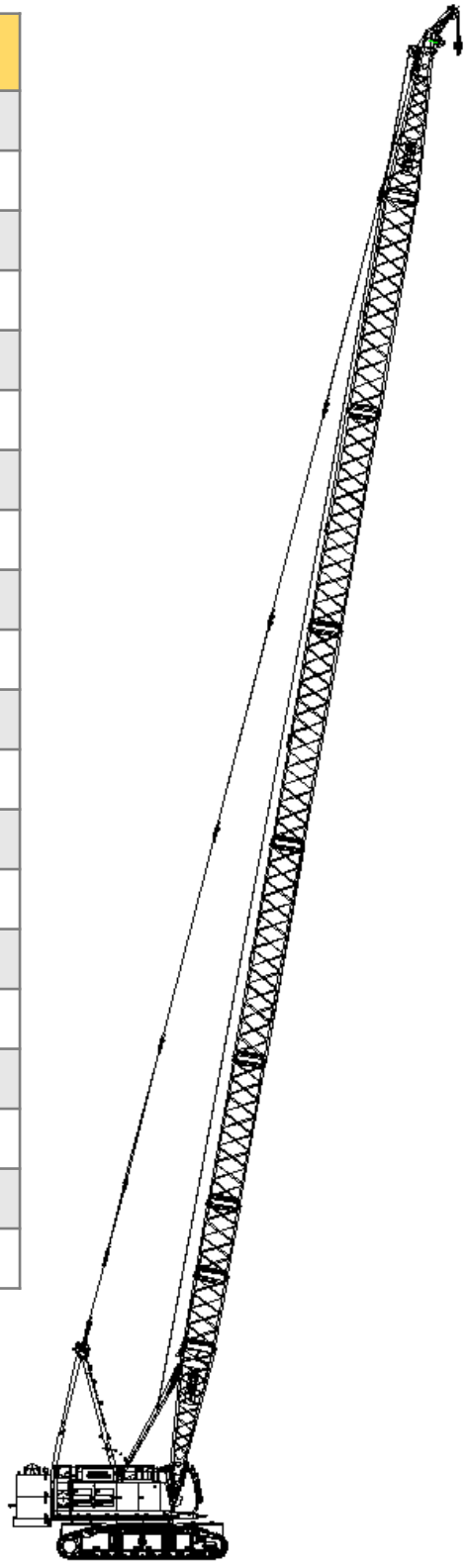
Main boom length: 42.6 ~ 121.3 ft

klb

ft	42.6	52.4	32.3	72.1	82.0	91.8	101.7	111.5	121.3
13.1	120.1	111.3							
14.8	101.8	95.2							
16.4	88.1	83.1	78.4	74.5					
18	74.9	73.6	69.8	66.5					
19.7	64.8	64.5	62.8	59.9	57.3				
23	50.4	50.4	50.4	50	47.8	46			
26.2	41.2	41.2	41	41	40.7	39.4	38.1	36.5	
29.5	34.6	34.6	34.6	34.3	34.1	33.9	33.2	31.9	30.6
32.8	29.7	29.7	29.5	29.5	29.3	29.1	28.8	28.2	27.1
39.4	23.1	22.9	22.7	22.7	22.4	22.2	22	21.8	21.6
45.9		18.2	18.2	18	17.8	17.6	17.4	17.1	16.9
52.5			14.9	14.7	14.5	14.5	14.1	13.8	13.6
59.1				12.5	12.1	12.1	11.6	11.4	11.2
65.6				10.5	10.3	10.1	9.9	9.7	9.4
72.2					8.8	8.5	8.3	8.1	7.9
78.7						7.4	7.2	6.8	6.6
85.3							6.1	5.7	5.5
91.9							5	4.8	4.4
98.4								3.9	3.7
105									3
	6	5	4	4	3	3	2	2	2

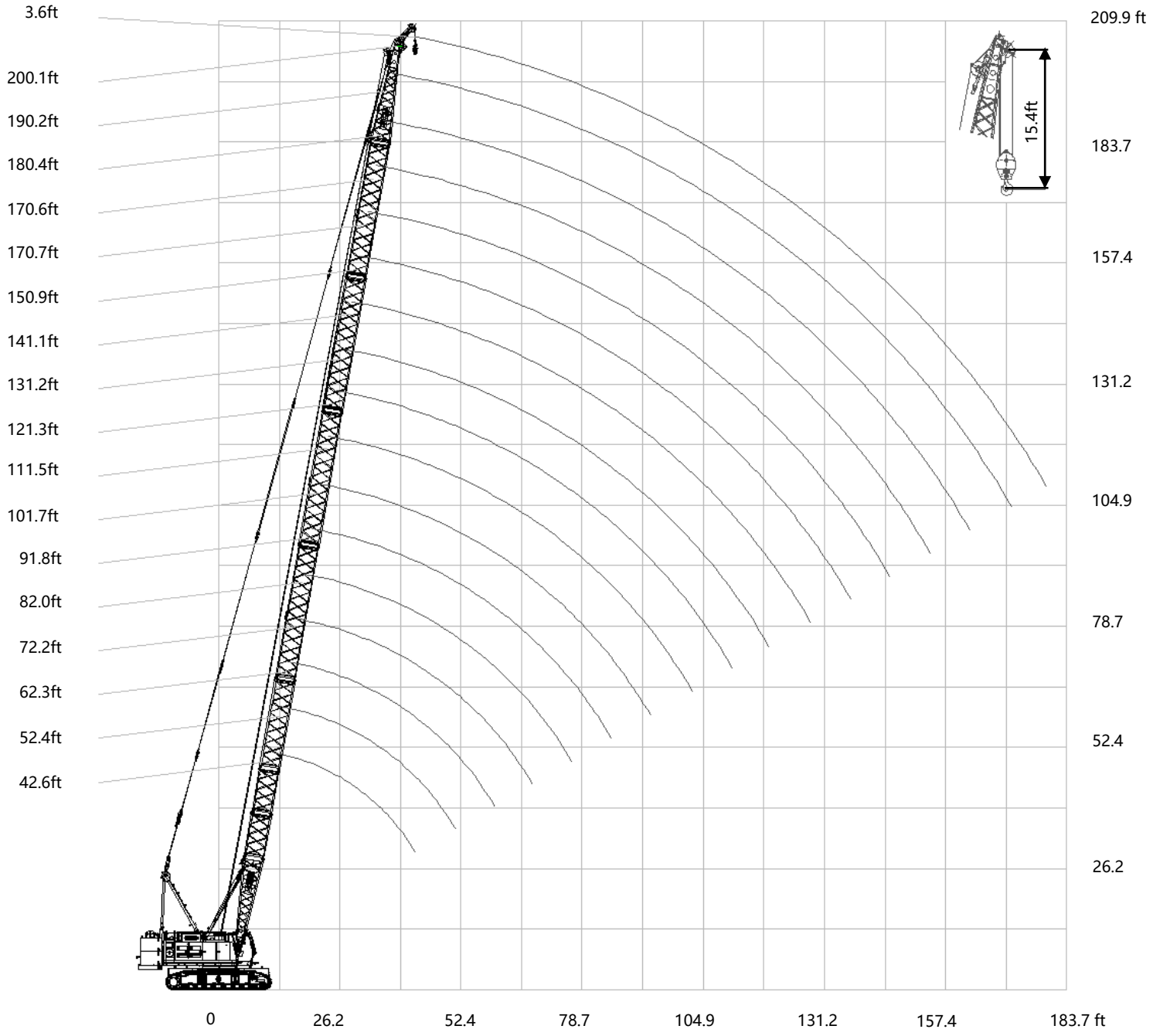
Operation modes and lifting performance -boom end single pulley operation mode

Main boom combination			
Main boom length	Length of insert section		
	9.8ft	19.6ft	29.5ft
42.6ft	—	—	—
52.4ft	1	—	—
62.3ft	—	1	—
72.1ft	—	—	1
82.0ft	1	—	1
91.8ft	—	1	1
101.7ft	1	1	1
111.5ft	1	—	2
121.3ft	—	1	2
131.2ft	—	—	3
141.0ft	1	—	3
150.9ft	—	1	3
160.7ft	1	1	3
170.6ft	—	2	3
180.4ft	1	2	3
190.2ft	—	3	3
200.1ft	1	3	3
Note: Main boom butt 21.3 ft and main boom top 21.3 ft are required.			



Boom end single pulley operation mode

Operation modes and lifting performance -boom end single pulley operation mode

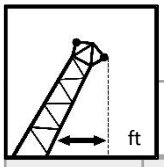
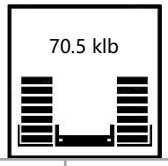
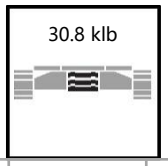
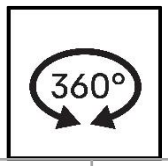
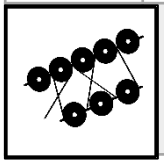


Operation modes and lifting performance -boom end single pulley operation mode

Main boom length: 42.6 ~ 121.3 ft

Boom end single pulley length: 3.6 ft

klb

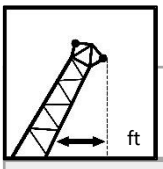
 ft	 70.5 klb		 30.8 klb	 360°						
	42.6	**52.4**	**32.3**	**72.1**	**82.0**	**91.8**	**101.7**	**111.5**	**121.3**	**131.2**
16.4	26.4	26.4								
18	26.4	26.4	26.4							
19.6	26.4	26.4	26.4	26.4						
22.9	26.4	26.4	26.4	26.4	26.4					
26.2	26.4	26.4	26.4	26.4	26.4	26.4	26.4			
29.5	26.4	26.4	26.4	26.4	26.4	26.4	26.4	0	26.4	
32.8	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
39.3	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
45.9		26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
52.4		26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
59			26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
65.6				26.4	26.4	26.4	26.4	26.4	26.4	26.4
72.1					24.6	24.4	24.2	24	23.8	23.5
78.7					22	21.8	21.6	21.3	21.1	20.7
85.3						19.6	19.4	18.9	18.7	18.5
91.8							17.4	17.1	16.9	16.7
98.4								15.4	15.2	14.9
104.9								14.1	13.8	13.6
111.5									12.5	12.3
118.1										11.2
	1	1	1	1	1	1	1	1	1	1

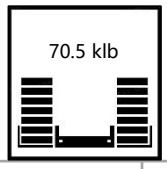
Operation modes and lifting performance -boom end single pulley operation mode

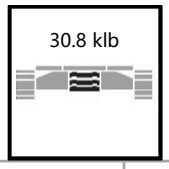
Main boom length: 131.2 ~ 200.1 ft

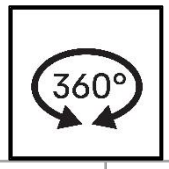
Boom end single pulley length: 3.6 ft

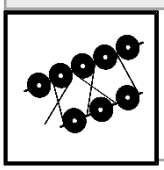
klb





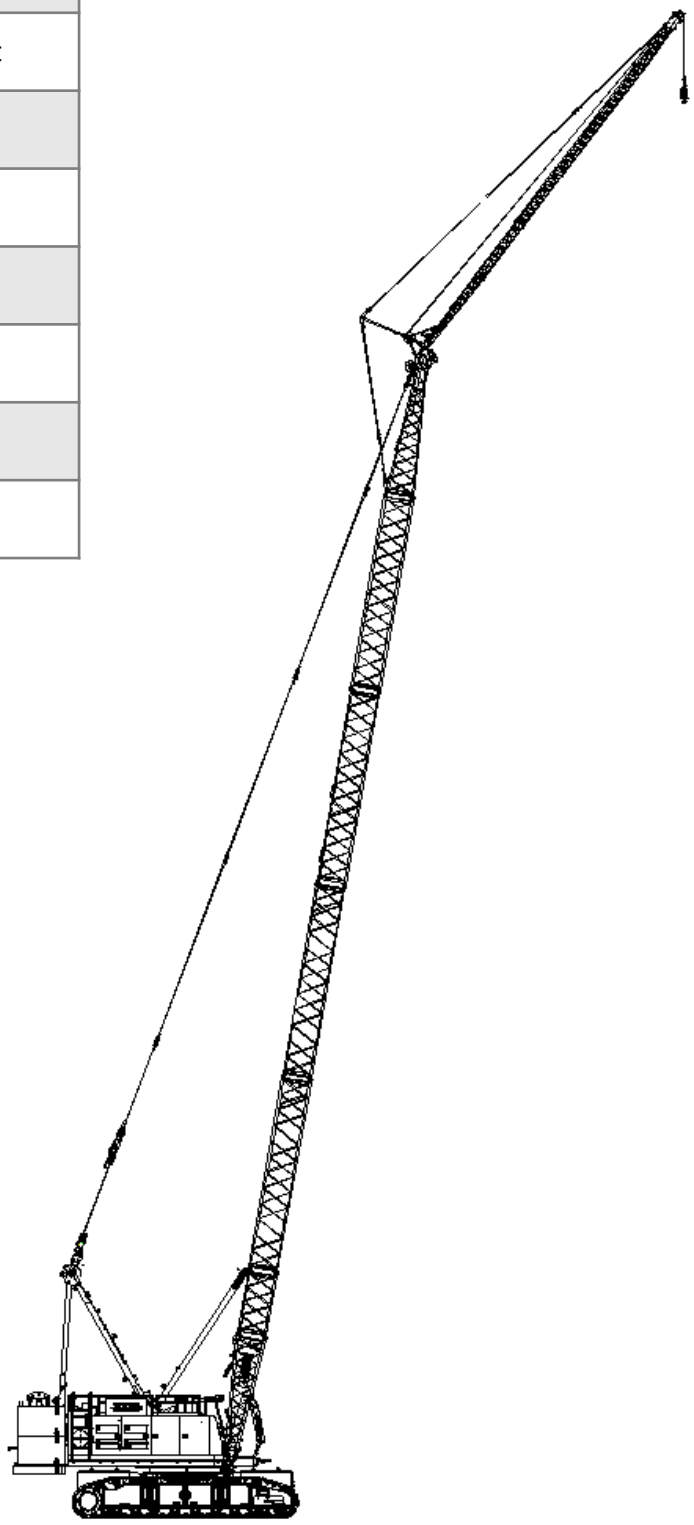




ft	141	150.9	160.7	170.6	180.4	190.2	200.1
32.8	26.4						
39.3	26.4	26.4	26.4	26.4	26.4		
45.9	26.4	26.4	26.4	26.4	26.4	26.4	26.4
52.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
59	26.4	26.4	26.4	26.4	26.4	26.4	26.4
65.6	26.4	26.2	26	25.7	25.5	25.1	24.6
72.1	23.1	22.9	22.7	22.4	22	21.8	21.3
78.7	20.5	20.2	20	19.6	19.4	19.1	18.7
85.3	18.2	18	17.8	17.4	17.1	16.7	16.5
91.8	16.3	16	15.8	15.4	15.2	14.9	14.5
98.4	14.7	14.5	14.3	13.8	13.6	13.2	12.7
104.9	13.2	13	12.7	12.3	12.1	11.9	11.4
111.5	12.1	11.9	11.4	11.2	11	10.5	10.1
118.1	11	10.8	10.5	10.1	9.7	9.2	8.8
124.6	9.9	9.7	9.4	9	8.8	8.3	7.9
131.2		8.8	8.5	8.1	7.7	7.2	6.8
137.7		7.9	7.7	7.2	7	6.6	6.1
144.3			6.8	6.6	6.1	5.7	5.2
150.9				5.7	5.5	5	4.6
157.4					4.8	4.4	3.9
164					4.4	3.9	3.3
170.6						3.3	2.8
177.1							2.4
	1	1	1	1	1	1	1

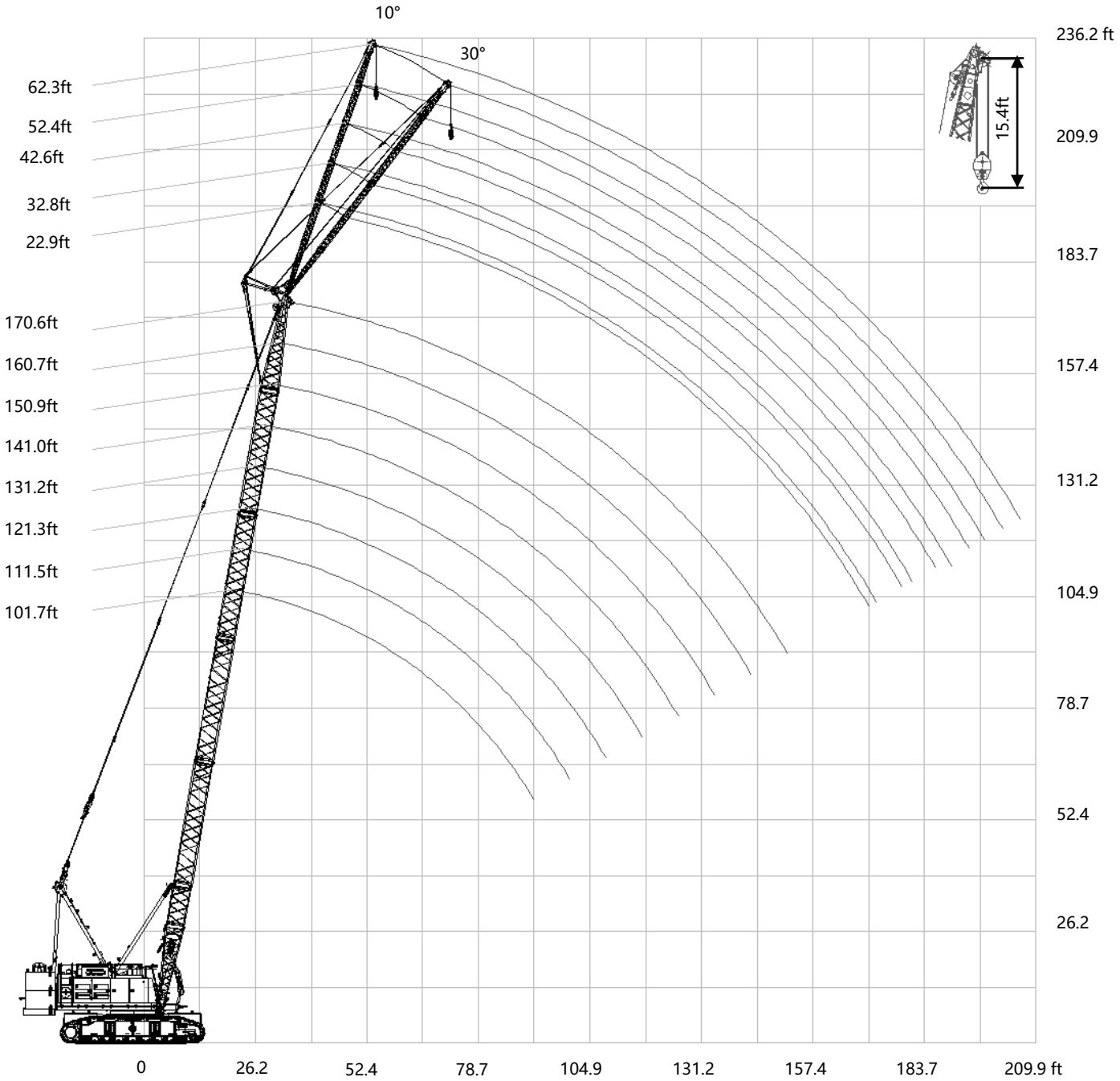
Operation modes and lifting performance - fixed jib operation mode

Jib combination		
Jib length	Length of insert section	
	9.8ft	19.6ft
22.9ft	—	—
32.8ft	1	—
42.6ft	—	1
52.4ft	1	1
62.3ft	2	1
Note: Jib butt 13.1 ft and jib top 9.8 ft are required.		

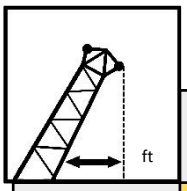


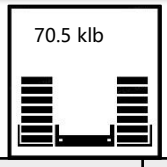
Fixed jib operation mode

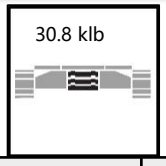
Operation modes and lifting performance –fixed jib operation mode

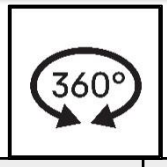


Operation modes and lifting performance - fixed jib operation mode







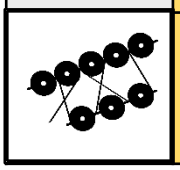




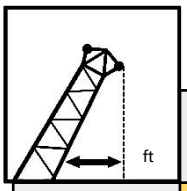
Main boom length: 101.7 ft~170.6 ft

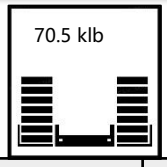
Jib length 23 ft

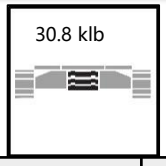
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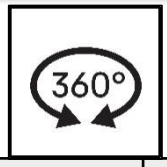
ft	101.7		111.5		121.3		131.2		141.0		150.9		160.7		170.6	
32.8	26.4		26.4													
39.3	26.4	26.4	26.4		26.4		26.4									
45.9	26.4	26.4	26.4	26.4	26.4	26.4	26.4		26.4		26.4					
52.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4		26.4	
59	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
65.6	26.4	25.5	26.4	26.2	26.4	26.4	26.4	26.4	26.2	26.4	26	26.4	25.7	26.4	25.5	26.2
72.1	24.2	24.4	23.8	24.2	23.5	24	23.3	23.8	22.9	23.5	22.7	23.3	22.4	23.1	22.2	22.9
78.7	21.3	21.8	21.1	21.3	20.7	21.1	20.5	21.1	20.2	20.7	20	20.5	19.8	20.2	19.4	20
85.3	19.1	19.4	18.7	19.1	18.5	18.9	18.2	18.7	18	18.5	17.8	18.2	17.4	18	17.1	17.6
91.8	17.1	17.4	16.9	17.1	16.7	16.9	16.3	16.7	16	16.5	15.8	16.3	15.6	16	15.2	15.6
98.4	15.6	15.8	15.2	15.4	14.9	15.2	14.7	14.9	14.3	14.7	14.1	14.5	13.8	14.3	13.6	14.1
104.9	14.3	14.3	13.8	14.1	13.6	13.8	13.4	13.6	13	13.2	12.7	13	12.5	12.7	12.1	12.5
111.5	13	13	12.5	12.7	12.3	12.5	12.1	12.3	11.6	12.1	11.4	11.9	11.2	11.6	11	11.2
118.1			11.4	11.6	11.2	11.4	11	11.2	10.5	11	10.3	10.5	10.1	10.3	9.7	10.1
124.6					10.3	10.3	10.1	10.1	9.7	9.9	9.4	9.7	9	9.4	8.5	9
131.2					9.4	9.4	9.2	9.2	8.8	9	8.3	8.5	8.1	8.3	7.7	7.9
137.7							8.3	8.3	7.9	8.1	7.7	7.7	7.2	7.4	6.8	7
144.3									7	7.2	6.8	7	6.6	6.8	6.1	6.3
150.9											6.1	6.1	5.9	5.9	5.5	5.7
157.4												5.5	5.2	5.2	4.8	4.8
164													4.6	4.6	4.1	4.4
170.6															3.7	3.7
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

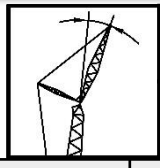
Operation modes and lifting performance - fixed jib operation mode











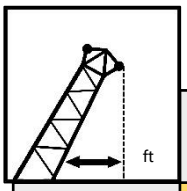
Main boom length: 101.7 ft~170.6 ft

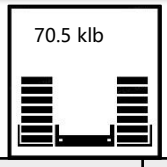
Jib length 32.8 ft

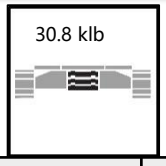
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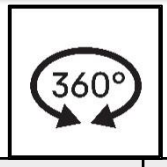
ft	101.7		111.5		121.3		131.2		141.0		150.9		160.7		170.6	
39.3	26.4		26.4													
45.9	26.4	22.7	26.4		26.4		26.4		26.4							
52.4	26.4	21.3	26.4	21.8	26.4	22	26.4		26.4		26.4		26.4			
59	26.4	20.2	26.4	20.7	26.4	20.9	26.4	22.4	26.4	22.7	26.4	23.1	26.4		26.4	
65.6	26.4	19.1	26.4	19.6	26.4	20	26.4	21.6	26.4	21.8	26.4	22.2	26.2	22.4	25.7	22.7
72.1	24.4	18.2	24	18.7	23.8	19.1	23.5	20.7	23.1	20.9	23.1	21.3	22.9	21.8	22.4	22
78.7	21.6	17.6	21.3	18	21.1	18.2	20.9	19.8	20.5	20.2	20.2	20.5	20	20.9	19.8	20.5
85.3	19.4	16.9	19.1	17.4	18.7	17.6	18.5	18.9	18.2	18.9	18	18.7	17.8	18.5	17.4	18.2
91.8	17.4	16.3	17.1	16.7	16.9	17.1	16.7	17.1	16.3	16.9	16	16.7	15.8	16.5	15.4	16.3
98.4	15.8	15.8	15.4	15.8	15.2	15.6	14.9	15.4	14.7	15.2	14.5	14.9	14.1	14.7	13.8	14.5
104.9	14.5	14.7	14.1	14.3	13.8	14.1	13.6	13.8	13.2	13.6	13	13.4	12.7	13.2	12.3	13
111.5	13.2	13.4	12.7	13	12.5	12.7	12.3	12.7	11.9	12.3	11.6	12.1	11.4	11.9	11.2	11.6
118.1	12.1	12.1	11.6	11.9	11.4	11.6	11.2	11.4	10.8	11.2	10.5	11	10.3	10.8	9.9	10.5
124.6		11.2	10.8	11	10.5	10.8	10.3	10.5	9.9	10.1	9.7	9.9	9.4	9.7	9	9.4
131.2			9.9	9.9	9.7	9.7	9.4	9.7	9	9.2	8.8	9	8.3	8.8	7.9	8.3
137.7					8.8	9	8.5	8.8	8.1	8.3	7.9	8.1	7.4	7.9	7.2	7.4
144.3							7.7	7.9	7.4	7.4	7	7.2	6.8	7	6.3	6.6
150.9								7.2	6.6	6.8	6.3	6.6	6.1	6.3	5.7	5.9
157.4									5.9	6.1	5.7	5.9	5.5	5.7	5	5.2
164											5	5.2	4.8	5	4.4	4.6
170.6													4.4	4.4	3.9	3.9
177.1															3.3	3.5
183.7																3
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

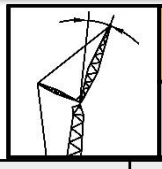
Operation modes and lifting performance - fixed jib operation mode







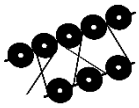




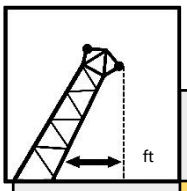
Main boom length: 101.7 ft~170.6 ft

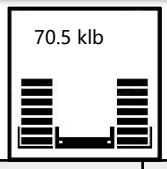
Jib length 42.6 ft

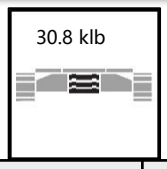
klb

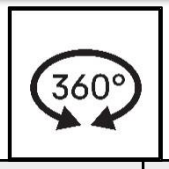
ft	101.7		111.5		121.3		131.2		141.0		150.9		160.7		170.6	
39.3	26.4															
45.9	26.4		26.4		26.4											
52.4	26.4	17.6	26.4		26.4		26.4		26.4		26.4					
59	25.7	16.5	26.4	16.7	26.4	17.8	26.4		26.4		26.4		26.4		26.4	
65.6	23.5	15.6	25.7	16	26.4	16.9	26.4	17.4	26.4	17.6	26.4	17.8	26.4		26.2	
72.1	21.6	14.9	23.5	15.2	24	16.3	23.8	16.5	23.5	16.7	23.3	16.9	23.1	17.1	22.7	17.4
78.7	20	14.3	21.6	14.5	21.3	15.4	21.1	15.8	20.7	16	20.5	16.3	20.2	16.5	20	16.7
85.3	18.5	13.6	19.1	13.8	18.9	14.7	18.7	15.2	18.5	15.4	18.2	15.6	18	15.8	17.6	16
91.8	17.4	13.2	17.4	13.4	17.1	14.3	16.7	14.5	16.5	14.7	16.3	15.2	16	15.4	15.8	15.6
98.4	16	12.5	15.6	13	15.4	13.6	15.2	14.1	14.9	14.3	14.7	14.5	14.5	14.7	14.1	14.9
104.9	14.5	12.3	14.3	12.5	14.1	13.2	13.8	13.6	13.4	13.8	13.2	13.8	13	13.6	12.5	13.4
111.5	13.4	11.9	13	12.1	12.7	13	12.5	13	12.1	12.7	11.9	12.5	11.6	12.3	11.4	12.1
118.1	12.3	11.6	11.9	11.9	11.6	12.1	11.4	11.9	11	11.6	10.8	11.4	10.5	11.2	10.3	10.8
124.6	11.2	11.4	11	11.2	10.5	11	10.3	10.8	10.1	10.5	9.9	10.3	9.7	10.1	9.2	9.9
131.2	10.3	10.5	10.1	10.3	9.9	10.1	9.4	9.9	9.2	9.7	9	9.4	8.5	9.2	8.1	8.8
137.7			9.2	9.4	9	9.2	8.8	9	8.3	8.8	8.1	8.5	7.7	8.1	7.4	7.9
144.3					8.3	8.3	7.9	8.3	7.4	7.9	7.2	7.7	7	7.4	6.6	7
150.9						7.7	7.2	7.4	6.8	7.2	6.6	6.8	6.3	6.6	5.9	6.3
157.4							6.6	6.8	6.1	6.3	5.9	6.1	5.7	5.9	5.2	5.7
164									5.7	5.7	5.2	5.5	5	5.2	4.6	5
170.6											4.8	5	4.6	4.6	4.1	4.4
177.1												4.4	3.9	4.1	3.5	3.7
183.7													3.5	3.7	3	3.3
190.2															2.6	2.8
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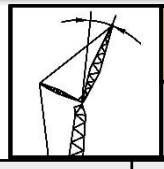
Operation modes and lifting performance - fixed jib operation mode











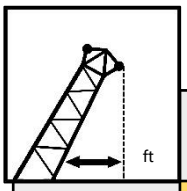
Main boom length: 101.7 ft~170.6 ft

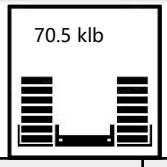
Jib length 52.4 ft

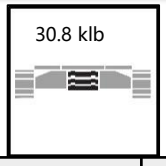
klb

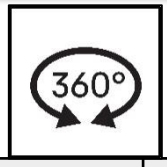
ft	101.7		111.5		121.3		131.2		141.0		150.9		160.7		170.6	
45.9	26.2		26.4													
52.4	24.9		25.3		25.5		25.7									
59	22.4	14.3	24		24.4		24.6		24.9		24.9					
65.6	20.5	13.6	22.4	14.3	23.3	14.5	23.8		24		24		24		24	
72.1	18.7	12.7	20.5	13.6	21.3	13.8	22.4	14.1	23.1	14.3	22.7	14.5	23.3		22.9	
78.7	17.4	12.1	18.9	13	19.8	13.2	20.7	13.4	20.9	13.6	20.7	13.8	20.5	14.1	20.2	14.1
85.3	16	11.6	17.4	12.3	18.2	12.5	18.9	12.7	18.5	13	18.5	13.2	18.2	13.4	17.8	13.6
91.8	14.9	11.2	16.3	11.9	16.9	12.1	16.9	12.3	16.7	12.5	16.5	12.7	16.3	13	15.8	13
98.4	14.1	10.8	15.2	11.2	15.6	11.6	15.2	11.9	14.9	12.1	14.7	12.3	14.5	12.3	14.3	12.5
104.9	13.2	10.3	14.3	10.8	14.1	11.2	13.8	11.4	13.6	11.6	13.4	11.9	13.2	11.9	12.7	12.1
111.5	12.5	9.9	13.2	10.5	12.7	10.8	12.5	11	12.3	11.2	12.1	11.4	11.9	11.6	11.4	11.6
118.1	11.9	9.7	12.1	10.1	11.6	10.3	11.4	10.5	11.2	10.8	11	11	10.8	11.2	10.3	11.2
124.6	11.2	9.4	11	9.9	10.8	10.1	10.5	10.3	10.1	10.5	9.9	10.5	9.7	10.3	9.2	10.1
131.2	10.5	9.2	10.1	9.7	9.9	9.9	9.7	10.1	9.2	9.9	9	9.7	8.8	9.4	8.3	9
137.7	9.7	9	9.4	9.4	9	9.4	8.8	9.2	8.5	9	8.1	8.8	7.9	8.5	7.4	8.1
144.3		9	8.5	8.8	8.3	8.5	8.1	8.5	7.7	8.1	7.4	7.9	7.2	7.7	6.8	7.2
150.9				8.1	7.7	7.9	7.4	7.7	7	7.4	6.8	7.2	6.3	6.8	5.9	6.6
157.4					7	7.2	6.8	7	6.3	6.8	6.1	6.3	5.7	6.1	5.5	5.9
164							6.1	6.3	5.7	6.1	5.5	5.7	5.2	5.5	4.8	5.2
170.6								5.7	5.2	5.5	4.8	5.2	4.6	5	4.1	4.6
177.1										4.8	4.4	4.6	4.1	4.4	3.7	4.1
183.7											3.9	4.1	3.7	3.9	3.3	3.5
190.2													3.3	3.3	2.8	3
196.8															2.4	2.6
203.4																2.2
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

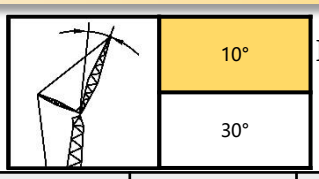
Operation modes and lifting performance - fixed jib operation mode











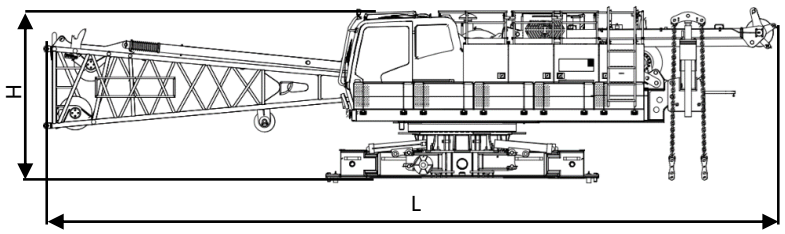
Main boom length: 101.7 ft~170.6 ft

Jib length 62.3 ft

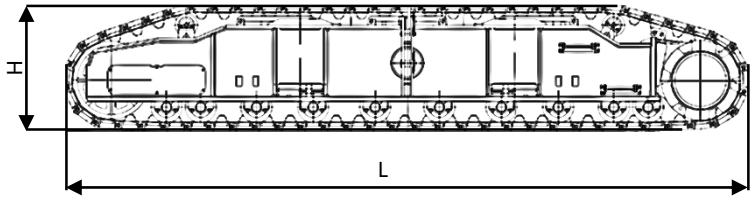
klb

ft	101.7		111.5		121.3		131.2		141.0		150.9		160.7		170.6	
45.9	21.1		21.1													
52.4	20		20.2		20.5		20.5									
59	19.1		19.4		19.6		19.6		19.8							
65.6	18	12.1	18.5	12.7	18.7		18.9		18.9		19.1		19.1			
72.1	16.9	11.4	17.6	12.1	17.8	12.3	18	12.5	18.2		18.5		18.5		18.5	
78.7	15.6	10.8	16.9	11.4	17.1	11.6	17.4	11.9	17.6	12.1	17.8	12.1	17.8		17.8	
85.3	14.5	10.3	15.6	10.8	16.5	11	16.7	11.2	16.9	11.4	17.1	11.6	17.4	11.6	17.4	11.9
91.8	13.4	9.9	14.5	10.3	15.2	10.5	16	10.8	16.3	11	16.5	11.2	16.3	11.2	16	11.4
98.4	12.5	9.4	13.6	9.9	14.3	10.1	14.9	10.3	14.9	10.5	14.9	10.8	14.7	10.8	14.3	11
104.9	11.9	9	12.7	9.4	13.4	9.7	13.8	9.9	13.6	10.1	13.4	10.3	13.2	10.3	13	10.5
111.5	11	8.5	11.9	9	12.5	9.2	12.7	9.4	12.3	9.7	12.1	9.9	11.9	10.1	11.6	10.1
118.1	10.5	8.3	11.2	8.8	11.9	9	11.6	9.2	11.2	9.4	11	9.4	10.8	9.7	10.5	9.9
124.6	9.9	8.1	10.5	8.5	10.8	8.5	10.5	8.8	10.3	9	10.1	9.2	9.9	9.4	9.4	9.4
131.2	9.4	7.9	10.1	8.1	9.9	8.3	9.7	8.5	9.4	8.8	9.2	9	8.8	9	8.5	9.2
137.7	9	7.7	9.4	7.9	9.2	8.1	9	8.3	8.5	8.5	8.3	8.5	7.9	8.8	7.7	8.3
144.3	8.5	7.4	8.8	7.7	8.3	7.9	8.1	8.1	7.7	8.3	7.4	8.1	7.2	7.9	6.8	7.7
150.9	8.1	7.2	8.1	7.7	7.7	7.7	7.4	7.9	7	7.7	6.8	7.4	6.6	7.2	6.1	6.8
157.4			7.4	7.4	7.2	7.4	6.8	7.2	6.3	7	6.1	6.6	5.9	6.3	5.5	6.1
164					6.6	6.8	6.1	6.6	5.9	6.3	5.5	5.9	5.2	5.7	4.8	5.5
170.6						6.1	5.7	5.9	5.2	5.7	5	5.5	4.8	5.2	4.4	4.8
177.1								5.5	4.8	5	4.6	4.8	4.1	4.6	3.7	4.4
183.7									4.4	4.6	4.1	4.4	3.7	4.1	3.3	3.7
190.2											3.5	3.9	3.3	3.5	2.8	3.3
196.8												3.3	2.8	3	2.4	2.8
203.4														2.6	2.2	2.4
209.9															1.7	1.9
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

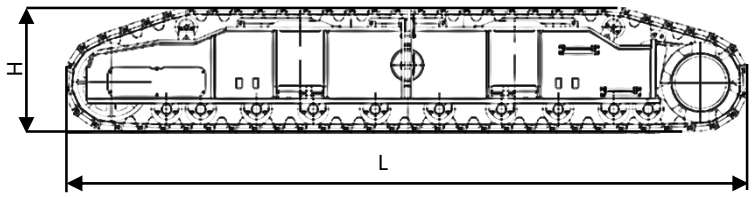
Dimensions of transported parts



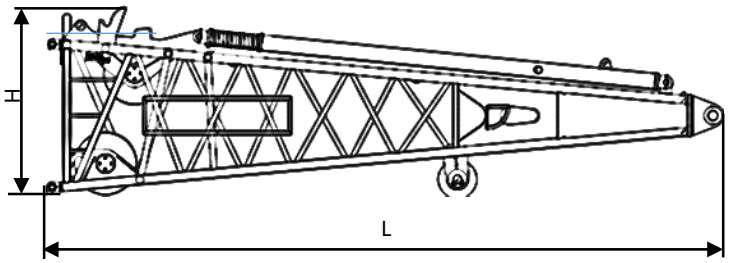
Basic crane (without crawler tracks)	×1
Length (L)	43.9 ft
Width (W)	10.8 ft
Height (H)	10.5 ft
Weight	68.2 klb



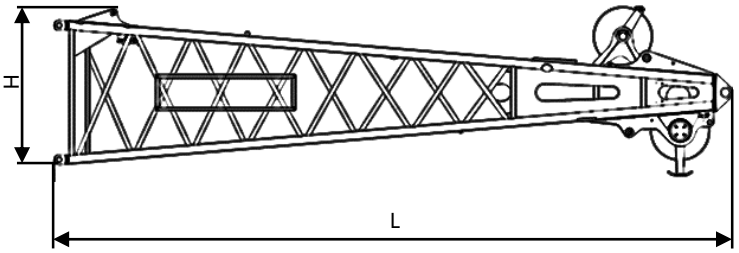
Left crawler frame	×1
Length (L)	21.0 ft
Width (W)	4.0 ft
Height (H)	3.9 ft
Weight	21.0 klb



Right crawler frame	×1
Length (L)	21.0 ft
Width (W)	4.0 ft
Height (H)	3.9 ft
Weight	21.0 klb

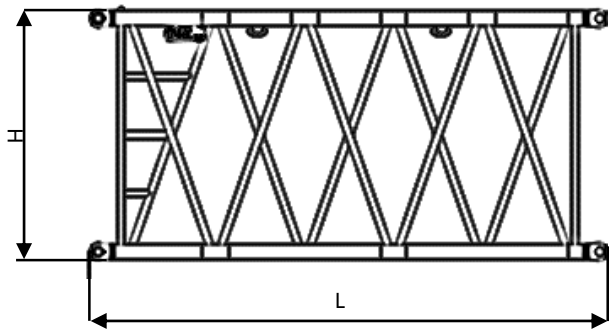
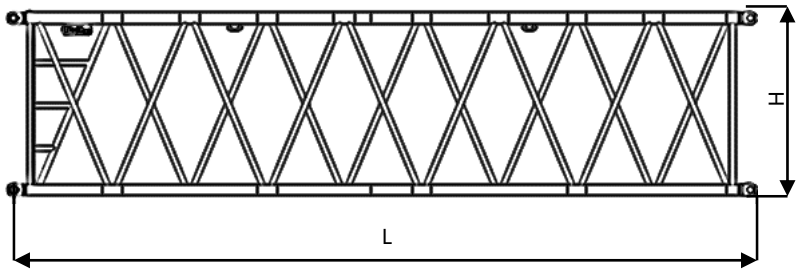
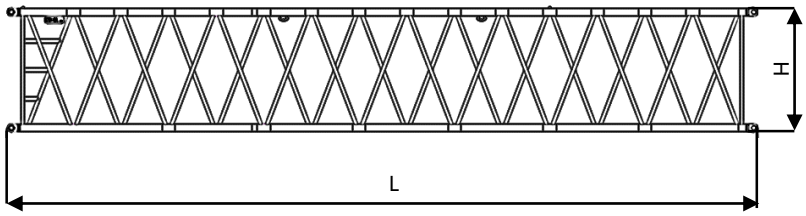
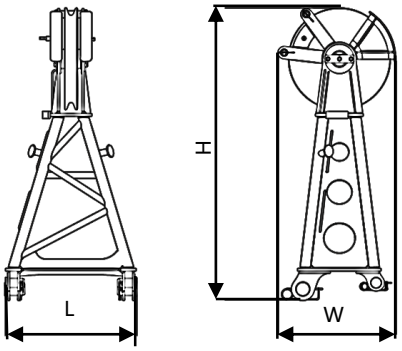
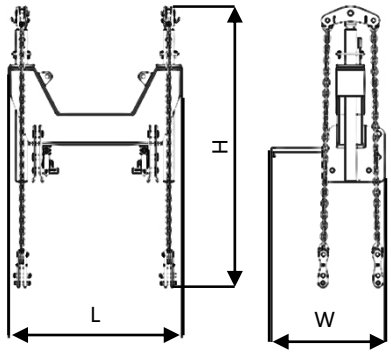


Bottom section	×1
Length (L)	21.3 ft
Width (W)	6.1 ft
Height (H)	6.0 ft
Weight	3.8 klb

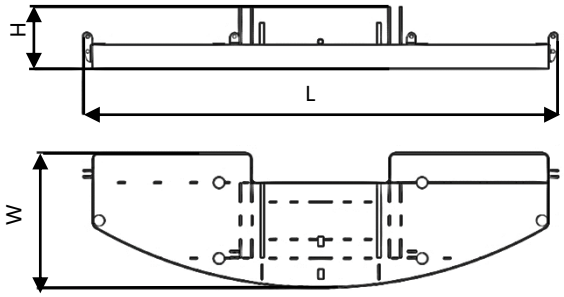
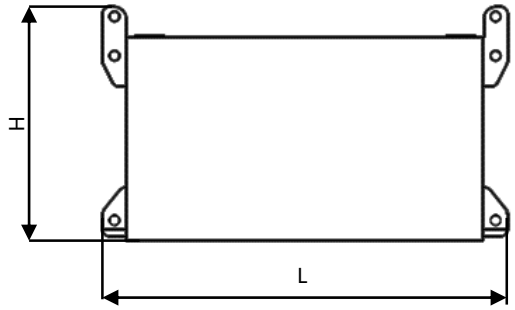
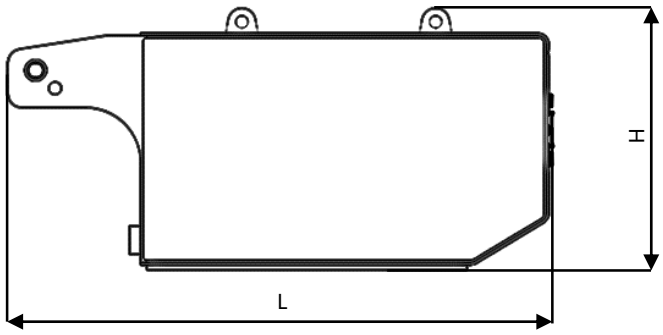
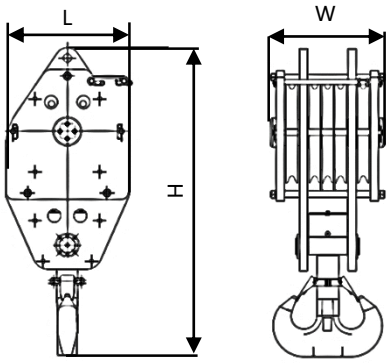
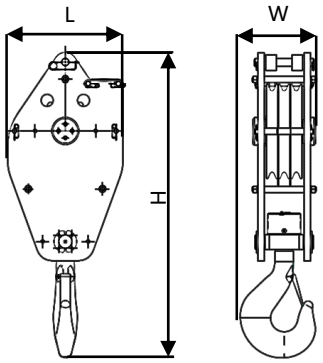


Top section	×1
Length (L)	21.3 ft
Width (W)	5.8 ft
Height (H)	5.7 ft
Weight	2.9 klb

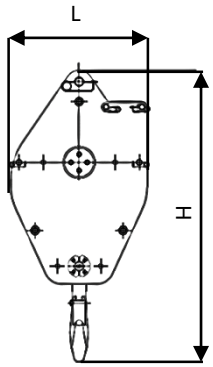
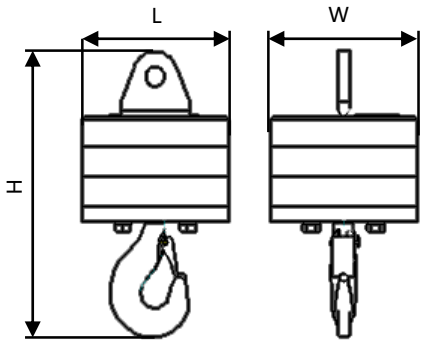
Dimensions of transported parts

	9.8ft section	×1
	Length (L)	9.8 ft
	Width (W)	6.1 ft
	Height (H)	4.9 ft
	Weight 1.0	klb
	19.6 ft section	×3
	Length (L)	19.6 ft
	Width (W)	6.1 ft
	Height (H)	4.9 ft
	Weight	1.7 klb
	29.5 ft section	×3
	Length (L)	29.5 ft
	Width (W)	6.1 ft
	Height (H)	4.9 ft
	Weight	2.5 klb
	Boom end single pulley	×1
	Length (L)	2.0 ft
	Width (W)	1.8 ft
	Height (H)	4.5 ft
	Weight	0.1 klb
	Jack-up device	×1
	Length (L)	6.1 ft
	Width (W)	4.0 ft
	Height (H)	10.0 ft
	Weight	2.3 klb

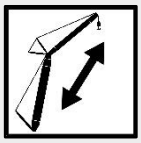
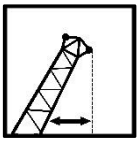
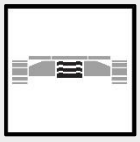
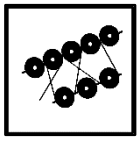
Dimensions of transported parts

	Central counterweight slab	× 1
	Length (L)	16.7 ft
	Width (W)	4.7 ft
	Height (H)	2.1 ft
	Weight	17.7 klb
	Left (right) counterweight slab	×4
	Length (L)	5.4 ft
	Width (W)	4.3 ft
	Height (H)	3.1 ft
	Weight	13.3 klb
	Car-body counterweight	×2
	Length (L)	6.4 ft
	Width (W)	3.9 ft
	Height (H)	3.1 ft
	Weight	15.4 klb
	220.5 klb lifting hook	×1
	Length (L)	2.4 ft
	Width (W)	2.3 ft
	Height (H)	6.2 ft
	Weight	3.7 klb
	176.4 klb lifting hook	×1
	Length (L)	2.4 ft
	Width (W)	1.6 ft
	Height (H)	6.5 ft
	Weight	2.1 klb

Dimensions of transported parts

	70.6 klb lifting hook	×1
	Length (L)	2.4 ft
	Width (W)	1.1 ft
	Height (H)	5.3 ft
	Weight	1.6 klb
	29.8 klb lifting hook	×1
	Length (L)	1.5 ft
	Width (W)	1.5 ft
	Height (H)	2.6 ft
	Weight	1.1 klb

Symbols

	Rated lifting capacity
	Max. main boom and jib combination length
	Working radius
	Undercarriage counterweight
	Parts of line

	Max. main boom length
	360 °slewing
	Turntable counterweight
	Angle between main boom and jib

Points for attention

1. Do not rely on this document to operate the crane! For detailed and correct operating instructions of the crane, please refer to the *"Operation Manual"* and *"Rated Lifting Capacity Manual"*.

2. The lifting capacity listed in the table is measured in kilobs (klb). It is the maximum total lifting capacity that the crane can guarantee on a stable and horizontal surface under the current boom length and radius, including the mass of the hook, sling, and wire rope. The actual mass of the load is value after the mass of the above items is subtracted.

3. Stability under loading condition is calculated according to ISO 4305 Tables 1+2+3, with a tilt angle of 4 °, and ANSI/ASME B30.5, and tested in accordance with SAE J765 and SAE J987.

4. The steel structure is calculated according toASME B30.5.

5. The working radius in the lifting performance table is the horizontal distance from the gravity center of lifted load to the slewing axis of the crane when the load is lifted off the ground.

6. This product has multiple combination operation modes, and the product images in the document may not be standard configurations. Each functional component can be customized and purchased according to different needs.

7. This document only displays partial lifting performance of the product. For detailed lifting performance, please refer to the *"Operation Manual"* or *"Rated Lifting Capacity Manual"*.

8. This printed material does not belong to the contract. We reserve the right to make changes to product models, parameters, and configurations without notice due to the need of continuous product improvement. The pictures are for reference only, and the specific product is subject to the actual product.

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