



SCA1350A

Crawler Crane

150UST(136 Tons) Lifting Capacity

Quality Changes the World



Max. lifting moment: 210Klb*23ft (95×7=668t·m)

Max. boom length: 249ft (76m)

Max. fixed jib combination: 200ft+102ft (61m+31m)

Max. luffing jib combination: 161ft+171ft(49m+52m)

The parameters, pictures and standard/optional equipment are only for reference in this brochure, the actual machine is based on the effective price list and contract.



Crawler Crane Series
SCA1350A

P03	Main Characteristics	▪ Product Specification ▪ Safety Device
P09	Technical Parameters	▪ Major Performance & Specifications ▪ Outline Dimension ▪ Transport Dimension ▪ Transport Plan
P19	Cofigurations	▪ H Configuration ▪ Hh Configuration ▪ FJ Configuration ▪ LJ Configuration



SCA1350A
SANY CRAWLER CRANE
150UST(136 TONS) LIFTING CAPACITY

QUALITY CHANGES THE WORLD

Main Characteristics

- Page 04 Product Specification
- Page 07 Safety Device

Product Specification



Engine

- Model: Cummins QSL9-C325 Diesel engine;
- Type: 4-stroke, water-cooled, vertical in-line 6 cylinders, direct injection, turbo-charger, intercooler, complied with European Off-highway Stage V Emission Standard and US EPA Tier F4(f) Emission Standard;
- Displacement: 2.4Gal (8.9L);
- Rated power: 242kw/1800rpm;
- Operation power: 242kw/1800rpm;
- Max. Torque: 1527N·m/1400rpm;
- Starter: 24V-6.0kW;
- Radiator: fin type aluminum plate core;
- Air cleaner: Dry type system with main filter element, safety element and resistance indicator;
- Throttle: Grip type hand throttle, electrically-controlled;
- Fuel filter: Replaceable paper element;
- Batteries: Two 12V×180Ah capacity batteries, connected in series;
- Fuel tank capacity: 105.7Gal (400L).

Hydraulic System

- Main pumps: three open variable displacement piston pumps are adopted to provide oil supply for main actuators of main machine;
- Gear pump: two types of gear pump for radiator and control circuit;
- Control: main pump adopts electrically-controlled positive flow control; winch motor adopts limitless adjustable piston motor of variable displacement. The operating components are three parallel hydraulic handles, one dual handle for travel and one cross hydraulic handle, to control various actuators proportionally;
- Way of cooling: heat exchanger, fan core and multi-stage cooling;
- Filter: large flow, high accuracy filter, with bypass valve and indicator, which can remind the user to replace the filter element in time;
- Max. pressure of system: 32MPa;
- Main/aux. hoist and travel system: 32MPa;
- Swing system: 32MPa;
- Control system: 5MPa;
- Hydraulic Tank Capacity: 121.5Gal (460L).

Electrical Control System

- Self-developed SYIC-III integrated control system is adopted with higher integration, precise operation and reliable quality;
- Control system consists of power system, engine system, main control system, LMI system, auxiliary system and safety monitoring system. CAN BUS is used for data communication between controller, monitor and the engine;
- Monitor: the working parameters and status are shown on the monitor, such as the engine speed, fuel volume, engine oil pressure, servo pressure, engine working hours, lifting conditions and boom angle.

Main and Aux. Hoist Mechanism

- Main and aux. hoist winches are driven separately by motor via gearbox. Operating winch handle can control the winch to rotate to two directions, which are lifting and lowering of hook. Excellent inching function is equipped on the machine;
- Drums with fold-line grooves can ensure the wire rope reeved in order in multilayers;
- **Main hoist/Aux. hoist with free fall function:**

Main hoisting mechanism	Drum diameter	22.68in(576mm)
	Rope speed (1st layer)	0~397.0ft/min (0~121m/min)
	Wire rope diameter	1.02in (26mm)
	Main hoist wire rope length	984' (300m)
	Rated single line pull	26.5Klb (12t)
Aux. hoisting mechanism	Drum diameter	22.68in(576mm)
	Rope speed (1st layer)	0~397.0ft/min (0~121m/min)
	Wire rope diameter	1.02in (26mm)
	Aux. hoist wire rope length	853' (260m)
	Rated single line pull	26.5Klb (12t)

- **Main hoist/Aux. hoist without free fall function:**

Main hoisting mechanism	Drum diameter	24.80in(630mm)
	Rope speed (1st layer)	0~397.0ft/min (0~121m/min)
	Wire rope diameter	1.02in (26mm)
	Main hoist wire rope length	984' (300m)
	Rated single line pull	26.5Klb (12t)
Aux. hoisting mechanism	Drum diameter	24.80in(630mm)
	Rope speed (1st layer)	0~397.0ft/min (0~121m/min)
	Wire rope diameter	1.02in (26mm)
	Aux. hoist wire rope length	853' (260m)
	Rated single line pull	26.5Klb (12t)



Product Specification

Boom Hoist Mechanism

- Boom hoist winch is driven directly by motor via gearbox. Operating winch handle can control the winch to rotate to two directions, which are lifting and lowering of boom;
- Drums with fold-line grooves can ensure the wire rope reeved in order in multilayers.

Boom hoist mechanism	Drum diameter	16.54 in (420mm)
	Rope speed (1st layer)	0~147.6ft/min (0~45m/min)
	Diameter of wire rope	0.79 in (20mm)
	Boom hoist wire rope length	623'4" (190m)

Swing Mechanism

- Swing brake adopts wet, spring loaded, normally-closed brake, and braking through spring force;
- Swing system has three work modes to accommodate different needs. It is featured in small backlash, steady control, and excellent inching function. It also has free slipping function to avoid sudden braking;
- Swing drive: external engaged swing drive with 360° swing range, and the max. swing speed is 2.2r/min. The max. drive pressure can reach 32MPa;
- Swing ring: three-row roller bearing.

Cab and Control

- Novelty in cab design, artistic modeling and trim and large area glass window; fitted with low beam headlamp and rearview mirror to broaden horizon; installed with air conditioner and radio; the arrangement of seats, control handle and various control buttons is ergonomically designed to enable more conformable operation;
- Cab layout: Integrated touch screen of 10.4 inch, programmable smart buttons vibration handles are offered as optional and man-machine interaction interface are more perfect;
- Armrest box: operation handle, electrical switch, emergency stop switch and ignition switch are installed on the left and right armrest boxes. The armrest box can be adjusted with the seat;
- Seat: suspension type multi-mode multi-level regulated seat, fitted with unloading switch;
- Air conditioner: cooling and heating air, optimized air passage and air port;
- Multiple cameras can be presented on the monitor at the same time to realize real-time monitoring of wire rope on each winch, conditions behind the counterweight and surrounding the machine.

Counterweight

- The stacking mode of counterweight tray and blocks is used for easy assembly, disassembly and transportation;
- Rear counterweight: total weight 119.0Klb(54t), 11.6Klb(5.25t) counterweight blocks x 8, 26.5Klb(12t) counterweight tray x1;
- Carbody counterweight: A total of 2, total weight of 44.1Klb(20t) [22.05Klb*2(10t x 2)];
- Rear counterweight self-assembly device is offered as optional;

Upperworks

- High-strength steel weld framework, with no torsion or deformation. The parts are laid out in the way that is easier for maintenance and service.

Product Specification



Lowerworks

- Independent travel driving units are adopted for each side of the crawler, to realize straight walking and turning driven by travel motor through gearbox and drive wheel.

Crawler Tightening

- The jack is used to push the guide wheel and insert the shim to adjust crawler tension.

Track Pad

- High strength alloy cast steel track pad ensure long service life;
- They are 37.4 in(950mm) wide with a quantity of 64 pads x 2.

Operating Equipment

- All chords are high-strength steel tubes, and the boom/jib top sheaves are made of high-strength anti-wearing Nylon material protecting wire rope. The hooks are installed with milled welded steel sheave.

Boom

- Lattice structure. The chord adopts high-strength structural tube and each section is connected through pins;
- Basic boom: 26'3"(8m) boom base+26'3"(8m) boom top;
- Boom insert: 9'10"(3m)*1, 19'8"(6m)*2, 29'6"(9m)*5;
- Boom length: 52'6"(16m)~249'4"(76m).

Fixed Jib

- Lattice structure. The chord adopts high-strength structural tube and each section is connected through pins;
- Basic jib: 16'5"(5m) jib base +9'10"(3m) insert +16'5"(5m) jib top;
- Jib insert: 19'8"(6m)*3;
- Fixed jib length: 42'8"(13m)~101'8"(31m);
- Longest boom + jib: 200'2"(61m)+101'8"(31m).

Luffing jib

- Lattice structure. The chord adopts high-strength structural tube and each section is connected through pins;
- Basic jib: 21'4"(6.5m) jib base +29'6"(9m) insert+21'4"(6.5m) jib top;
- Jib insert: 9'10"(3m)*2, 19'8"(6m)*1, 29'6"(9m)*2;
- Luffing jib length: 72'2"(22m)~170'7"(52m);
- Longest boom + jib: 160'9"(49m)+170'7"(52m).

Extension Jib

- The welding structure is connected with main boom through hinge pin, and used for aux. hook operation;
- Length of extension jib: 8'10"(2.7m).

Hook Block

- 135t hook, 5 pulleys;
- 80t hook, 3 pulleys;
- 35t hook, 1 pulley;
- 13.5t ball hook.



Safety Device

Assembly/Work Mode Control Switch

- Under the assembly mode, over-hoist limit switch, crane boom limit device and load moment limiter do not work, so as to facilitate the installation of crane;
- All safety limit devices work in the work mode.

Emergency Stop

- In emergent situation, this button is pressed down to cut off the power supply of whole machine and all actions stop.

Load Moment Limiter (LMI)

- It is an independent computerized safety control system. LMI can automatically detect the load weight, work radius and boom angle, and present on the display the rated load, actual load, work radius and boom angle. In normal operation, the LML can make a judgment and cut off automatically if the crane moves towards dangerous direction. It can also perform as a black box to record the lifting information;
- It is composed of monitor, angle sensor and force sensor and other parts.

Over-hoist Limit Switch of Main/Auxiliary Hooks

- Over-hoist protection device comprises of limit switch and weight on boom top, which prevents the hook lifting up too much;
- When the hook lifts up to the limit height, the limit switch activates, buzzer on the left control panel sends alarm, failure indicator light starts to flash, and the hook hoisting action is cut off automatically, cut off automatically.

Over-release Limit Switch of Main/Auxiliary Hooks

- It is comprised of activator in the drum and proximity switch to prevent over release of wire rope. When the rope is paid out close to the last three wraps, the limit switch acts, and the system sends alarm through buzzer and show the alarm on the instrument panel, automatically cutting off the winch action.

Function Lock Lever

- If the function lock level is not in work position, all the other handles won't work, which prevents any mis-operation caused by accidental collision.

Boom Hoist Drum Lock

- Pawl lock is used on boom hoist winch, which needs to unlock by switch before operation, in order to prevent mis-operation of handles and ensure safety during nonwork time.

Swing Lock Device

- Swing Lock can lock the machine at four positions, front and back, left and right.

Boom Limit Device

- When the boom elevation angle reaches the max. set limit, the buzzer sounds and boom action cut off. This protection is two-stage control ensured by both LML system and travel switch.

Back-stop Device

- Its major components are nesting tubes and spring, in order to buffer the boom backlash and prevent further tipping back.

Boom Angle Indicator

- Pendulum angle indicator is fixed on the side of boom base close to the cab, so as to provide convenience to the operator.

Hook Latch

- The hook is provided with a baffle to prevent wire rope from falling off.

Safety Device



Monitoring System

- Remote Monitoring system is a standardized offering to provide functions like GPS locating, GPRS data transfer, machine status inquiry and statistics, operating data monitoring and analysis, remote diagnosis of failures.

Zoom Camera

- It can monitor load lifting on the main hook and the surroundings at real time. The camera can zoom in/out as needed.
- Components: wireless remote transmitter, wireless remote receiver, zoom camera.

Tri-color Load Indicator

- The load indication light has three colors, green, yellow and red, and the real time load status is presented on the display. When the actual load is smaller than 90% of rated load, the green light is on;
- When the actual load is larger than 90% and smaller than 100%, the yellow light is on, the alarm light flashes and sends out intermittent sirens;
- When the actual load reaches 100% of rated load, the red light is on, the alarm light flashes and sends out continuous sirens;
- When the actual load reaches 102% of rated load, the system will automatically cut off the crane operation in dangerous trend.

Audio-visual Alarm

- When the engine is working, the light flashes; when the machine is traveling or swinging, it sends out sirens.

Swing Indicator Light

- The swing indicator light flashes during traveling or swing.

Illuminating Light

- The machine is equipped with the low beam light and high beam light at the front of the cab, illumination light at cab, and other night lights, boom lights to improve the visibility during construction.

Camera

- Set on the handrail at the front of right sheet metal, so as to monitor the rear part of machine.

Pharos

- Pharos is mounted on the top of boom/jib to indicate the height.

Anemometer

- It is mounted on the top of boom/jib, and displayed on the monitor in the cab.

Electronic Level Indicator

- It displays the tipping angle of crane on the monitor in real time, protecting the machine from dangerous situation.

Seat Interlock

- Put down the function lock lever on the left side of cab seat or if the operator leaves the seat, all control levers will be deactivated to prevent any mis-operation due to accidental collision.

Engine Power Limit Load Adjustment and Stalling Protection

- The controller monitors the engine power to prevent engine getting stuck and stalling.

Engine Status Monitoring

- The engine status will be presented, such as engine coolant temperature, fuel volume, total work hours, engine oil pressure, engine speed, battery charging, voltage.



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Technical Parameters

- Page 10 Major Performance Specifications
- Page 11 Outline Dimension
- Page 12 Transport Dimension
- Page 17 Transportation Plan

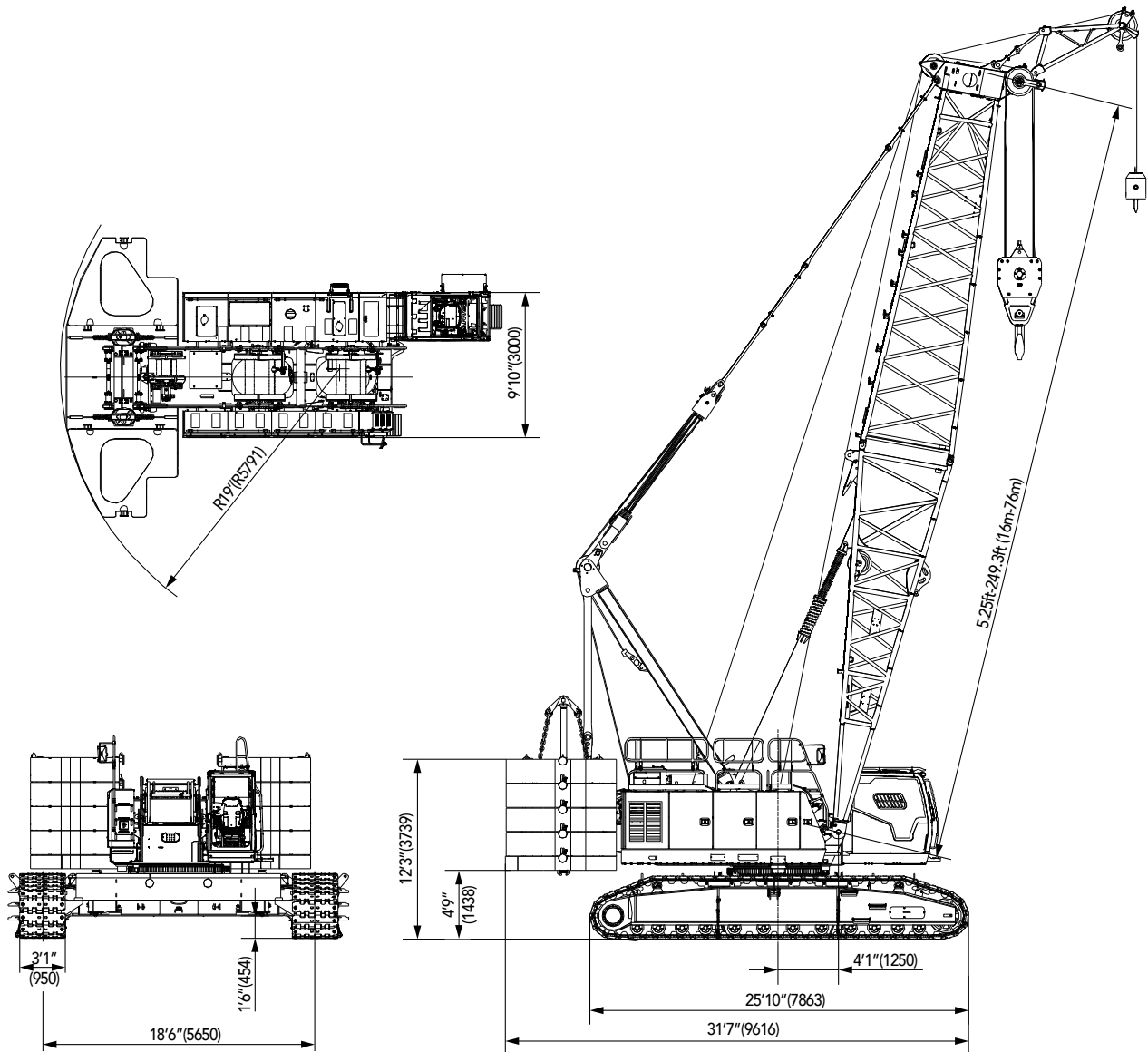


Major Performance Specifications

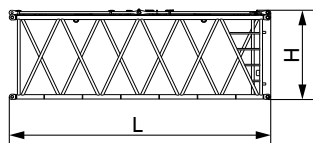
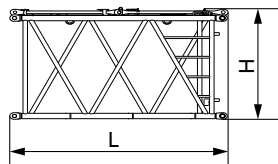
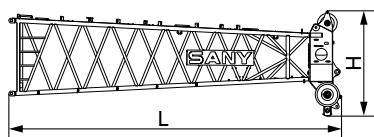
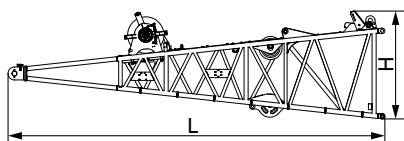
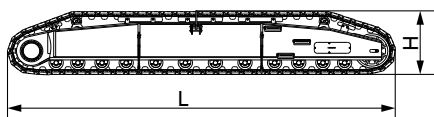
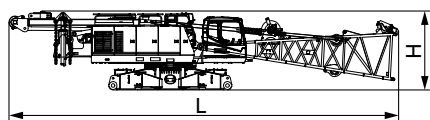
Major Performance & Specifications of SCA1350A			
Performance Indicators		Unit	Parameter
Boom configuration	Maximum rated lifting capacity	Klb (t)	300 (136)
	Maximum rated lifting moment	Klb*ft (t·m)	210.3Klb*23ft (668(=95.4×7))
	Boom length	ft (m)	52.5~249.3 (16~76)
Fixed jib configuration	Maximum rated lifting capacity	Klb (t)	59.5 (27)
	Jib length	ft (m)	42.7~101.7 (13~31)
	Longest main boom + jib	ft (m)	200.1+101.7 (61+31)
Luffing jib configuration	Maximum rated lifting capacity	Klb (t)	88.2 (40)
	Jib length	ft (m)	72.2~170.6 (22~52)
	Longest main boom + jib	ft (m)	160.8~170.6 (49+52)
Operation speed	Rope speed of main/aux. hoist (1st layer)	ft/min (m/min)	0~397.0 (0~121)
	Boom hoist winch rope speed (1st layer)	ft/min (m/min)	0~147.6 (0~45)
	Slewing speed	rpm	0~2.2
	Travelling speed	mile/h (km/h)	0~0.8 (0~1.3)
Engine	Output power	kW	242
	Rated speed	rpm	1800
Transport parameter	Weight of machine with basic boom (including basic boom, extension jib, jib luffing winch, 135t hook and 13.5t hook)	Klb (t)	329.2 (149.34)
	Maximum transport weight of basic machine (including base)	Klb (t)	88.18 (40)
	Maximum transport dimension of basic machine (L x W x H, mm)	ft (mm)	52.7*9.8*10.7 (16050x3000x3250)
Other parameters	Average ground bearing pressure	MPa	0.112
	Grade ability	%	30

Unit: ft(mm)

Outline Dimension



Transportation Dimensions



Basic machine (with boom base and jib luffing winch) ×1

Length(L)	52.7ft(16.05m)
Width(W)	9.8ft(3.00m)
Height(H)	10.7ft(3.25m)
Weight	88.2Klb(40t)

Note: the weight of jib luffing winch and wire rope is 4.14Klb(1.88t)

Crawler Assembly ×2

Length(L)	25.8ft(7.86m)
Width(W)	4.3ft(1.32m)
Height(H)	4.3ft(1.32m)
Weight	33.1Klb(15t)

Boom base (with jib luffing winch) ×1

Length(L)	26.9ft(8.21m)
Width(W)	6.8ft(2.08m)
Height(H)	7.3ft(2.24m)
Weight	12.7Klb(5.78t)

Note: the weight of jib luffing winch and wire rope is 4.14Klb(1.88t)

Boom top ×1

Length(L)	27.6ft(8.42m)
Width(W)	6.4ft(1.96m)
Height(H)	8.7ft(2.66m)
Weight	5.6Klb(2.55t)

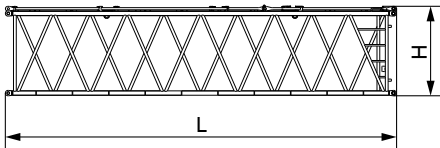
3m insert of main boom ×1

Length(L)	10.3ft(3.15m)
Width(W)	6.8ft(2.06m)
Height(H)	6.9ft(2.09m)
Weight	1.4Klb(0.62t)

6m insert of main boom ×2

Length(L)	20.1ft(6.14m)
Width(W)	6.8ft(2.06m)
Height(H)	6.8ft(2.08m)
Weight	2.3Klb(1.04t)

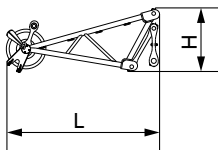
Transportation Dimensions



9m insert of main boom

×5

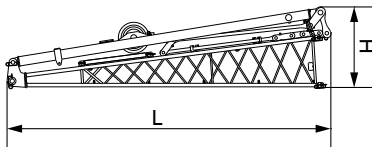
Length(L)	30.0ft(9.14m)
Width(W)	6.8ft(2.06m)
Height(H)	6.8ft(2.08m)
Weight	3.3Klb(1.49t)



Extension jib

×1

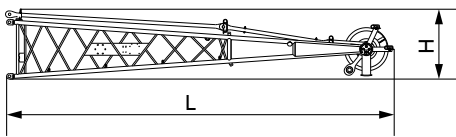
Length(L)	7.7ft(2.36m)
Width(W)	3.4ft(1.04m)
Height(H)	3.2ft(0.98m)
Weight	0.7Klb(0.3t)



Fixed jib base(including strut)

×1

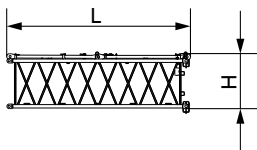
Length(L)	17.2ft(5.25m)
Width(W)	3.9ft(1.19m)
Height(H)	4.3ft(1.30m)
Weight	1.9Klb(0.84t)



Fixed jib top

×1

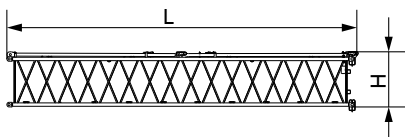
Length(L)	17.8ft(5.43m)
Width(W)	3.3ft(1.01m)
Height(H)	3.2ft(0.99m)
Weight	1.2Klb(0.53t)



3m insert of fixed jib

×1

Length(L)	10.2ft(3.12m)
Width(W)	3.3ft(1.02m)
Height(H)	3.0ft(0.92m)
Weight	0.4Klb(0.19t)

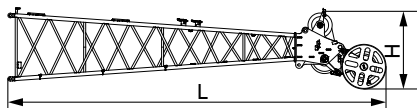


6m insert of fixed jib

×3

Length(L)	20.1ft(6.12m)
Width(W)	3.3ft(1.02m)
Height(H)	3.0ft(0.92m)
Weight	0.7Klb(0.34t)

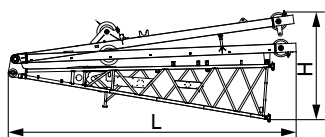
Transportation Dimensions



Luffing jib top

×1

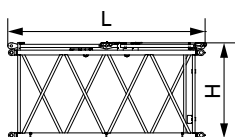
Length(L)	25.6ft(7.81m)
Width(W)	4.5ft(1.38m)
Height(H)	4.8ft(1.45m)
Weight	2.6Klb(1.17t)



Luffing jib base (with struts)

×1

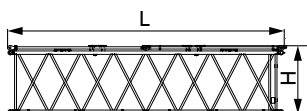
Length(L)	23.8ft(7.26m)
Width(W)	6.1ft(1.87m)
Height(H)	8.9ft(2.7m)
Weight	6.9Klb(3.13t)



3m luffing jib insert

×2

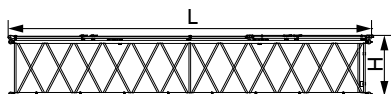
Length(L)	10.2ft(3.1m)
Width(W)	4.6ft(1.4m)
Height(H)	4.9ft(1.5m)
Weight	0.7Klb(0.3t)



6m luffing jib insert

×1

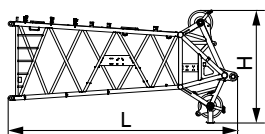
Length(L)	20.0ft(6.1m)
Width(W)	4.6ft(1.4m)
Height(H)	4.9ft(1.5m)
Weight	1.1Klb(0.49t)



9m luffing jib insert

×3

Length(L)	29.9ft(9.1m)
Width(W)	4.6ft(1.4m)
Height(H)	5.2ft(1.6m)
Weight	1.5Klb(0.7t)

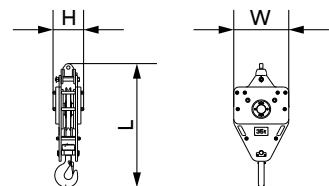
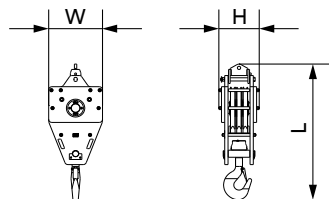
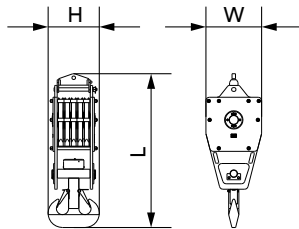
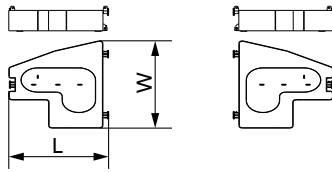
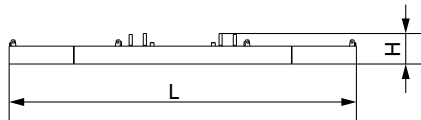
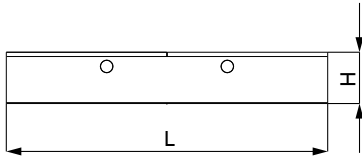


Boom top (special for LJ)

×1

Length(L)	18.7ft(5.7m)
Width(W)	6.4ft(1.95m)
Height(H)	9.2ft(2.8m)
Weight	4.2Klb(1.9t)

Transportation Dimensions



Carbody counterweight

×2

Length(L)	13.9ft(4.25m)
Width(W)	4.9ft(1.5m)
Height(H)	1.8ft(0.55m)
Weight	22.0Klb(10t)

Rear counterweight tray

×1

Length(L)	19.0ft(5.8m)
Width(W)	7.6ft(2.31m)
Height(H)	1.6ft(0.5m)
Weight	26.5Klb(12t)

Rear counterweight

(1+1)×4

Length(L)	6.3ft(1.93m)
Width(W)	7.5ft(2.28m)
Height(H)	2.0ft(0.6m)
Weight	11.6Klb(5.25t)

135T lifting hook

×1

Length(L)	7.5ft(2.28m)
Width(W)	3.0ft(0.91m)
Height(H)	2.3ft(0.69m)
Weight	4.5Klb(2.04t)

80T lifting hook

×1

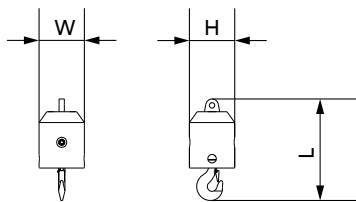
Length(L)	7.3ft(2.21m)
Width(W)	3.0ft(0.91m)
Height(H)	2.0ft(0.62m)
Weight	4.3Klb(1.94t)

35T lifting hook

×1

Length(L)	6.2ft(1.88m)
Width(W)	3.0ft(0.91m)
Height(H)	1.5ft(0.46m)
Weight	2.6Klb(1.2t)

Transportation Dimensions



13.5t ball hook ×1	
Length(L)	3.1ft(0.95m)
Width(W)	1.4ft(0.43m)
Height(H)	1.4ft(0.43m)
Weight	1.0Klb(0.45t)

Remarks:

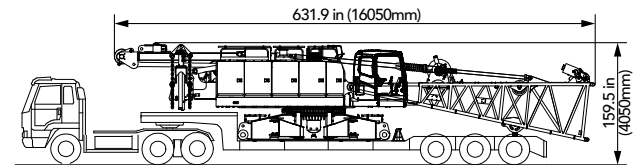
1.The transport dimensions for the parts are for reference that do not draw to the scale. The dimensions listed above are deisnged values excluding packing.

2.Weight is design values. It maybe different due to manufacturing tolerances.

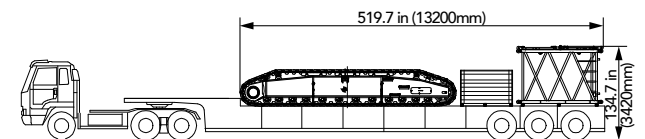
Transport Plan

Transport

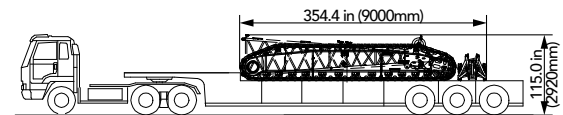
Transport cart 1	
Components included	Basic machine (4 winches, carbody, outrigger, A-frame, all wire ropes), boom base
Transport weight	88.2Klb (40t)



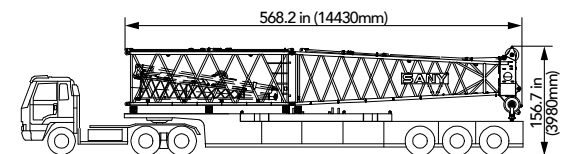
Transport cart 2	
Components included	- Crawler frame: 33.1Klb (15t) 3m(9.9ft) boom insert: 1.4Klb (0.62t) - Packing case: 2.2Klb (1t)
Transport weight	36.7Klb (16.62t)



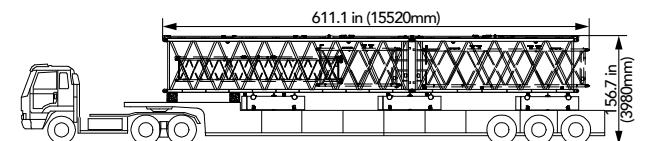
Transport cart 3	
Components included	- Crawler frame: 33.1Klb (15t) - Luffing jib top: 2.6Klb (1.17t) - Extension jib: 0.7Klb (0.3t)
Transport weight	36.3Klb (16.47t)



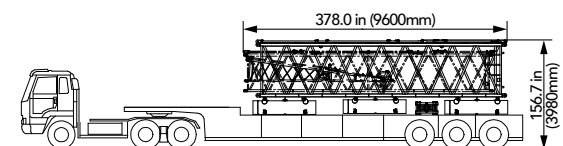
Transport cart 4	
Components included	- Counterweight tray: 26.5Klb (12t) - Boom top: 5.7Klb (2.55t) 6m(20ft) boom insert & Fixed jib base: 4.2Klb (1.88t)
Transport weight	36.3Klb (16.43t)



Transport cart 5	
Components included	- Counterweight*3: 34.8Klb (15.75t) 9m(30ft) boom insert & 3m(10ft) luffing jib insert & 6m(20ft) fixed jib insert: 4.7Klb (2.13t) 6m(20ft) boom insert & 6m(20ft) luffing jib insert: 3.4Klb (1.53t)
Transport weight	42.8Klb (19.41t)

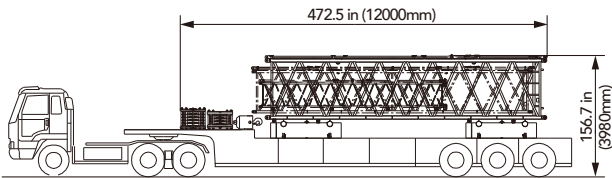


Transport cart 6	
Components included	- Counterweight*3: 34.8Klb (15.75t) 9m(30ft) boom insert+9m(30ft) luffing jib insert+ Fixed jib top: 6.0Klb (2.72t) 35t lifting hook: 2.6Klb (1.2t)
Transport weight	43.3Klb (19.67t)

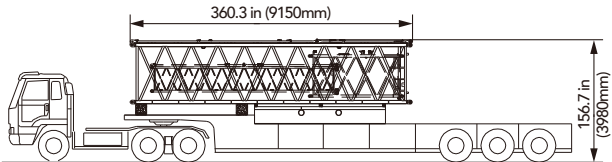


Transport Plan

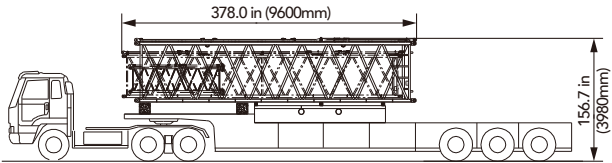
Transport cart 7	
Components included	- Counterweight*2: 23.2Klb (10.5t) 9m(30ft) boom insert:+9m(30ft) luffing jib insert+ 6m(20ft) fixed jib insert: 5.6Klb (2.53t) 135T lifting hook: 4.5Klb(2.04t) 80T lifting hook: 4.3Klb(1.94t) 13.5T ball hook: 1.0Klb (0.45t)
Transport weight	38.5Klb(17.46t)



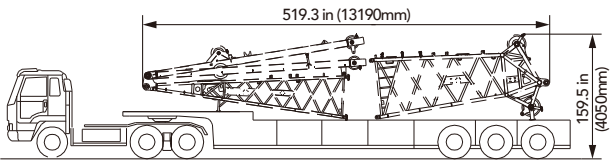
Transport cart 8	
Components included	- Carbody counterweight: 22.1Klb (10t) 9m(30ft) boom insert:+3m(10ft) luffing jib insert+ 6m(20ft) fixed jib insert: 4.7Klb (2.13t)
Transport weight	26.8Klb (12.13t)



Transport cart 9	
Components included	- Carbody counterweight: 22.1Klb (10t) 9m(30ft) boom insert:+9m(30ft) luffing jib insert+ 3m(10ft) fixed jib insert: 5.3Klb (2.39t)
Transport weight	27.3Klb (12.39t)



Transport cart 10	
Components included	- Luffing jib base with struts : 6.9Klb (3.13t) - Boom top(special for LJ): 4.2Klb (1.9t)
Transport weight	11.1Klb (5.03t)





SCA1350A
SANY CRAWLER CRANE
150UST(136 TONS) LIFTING CAPACITY

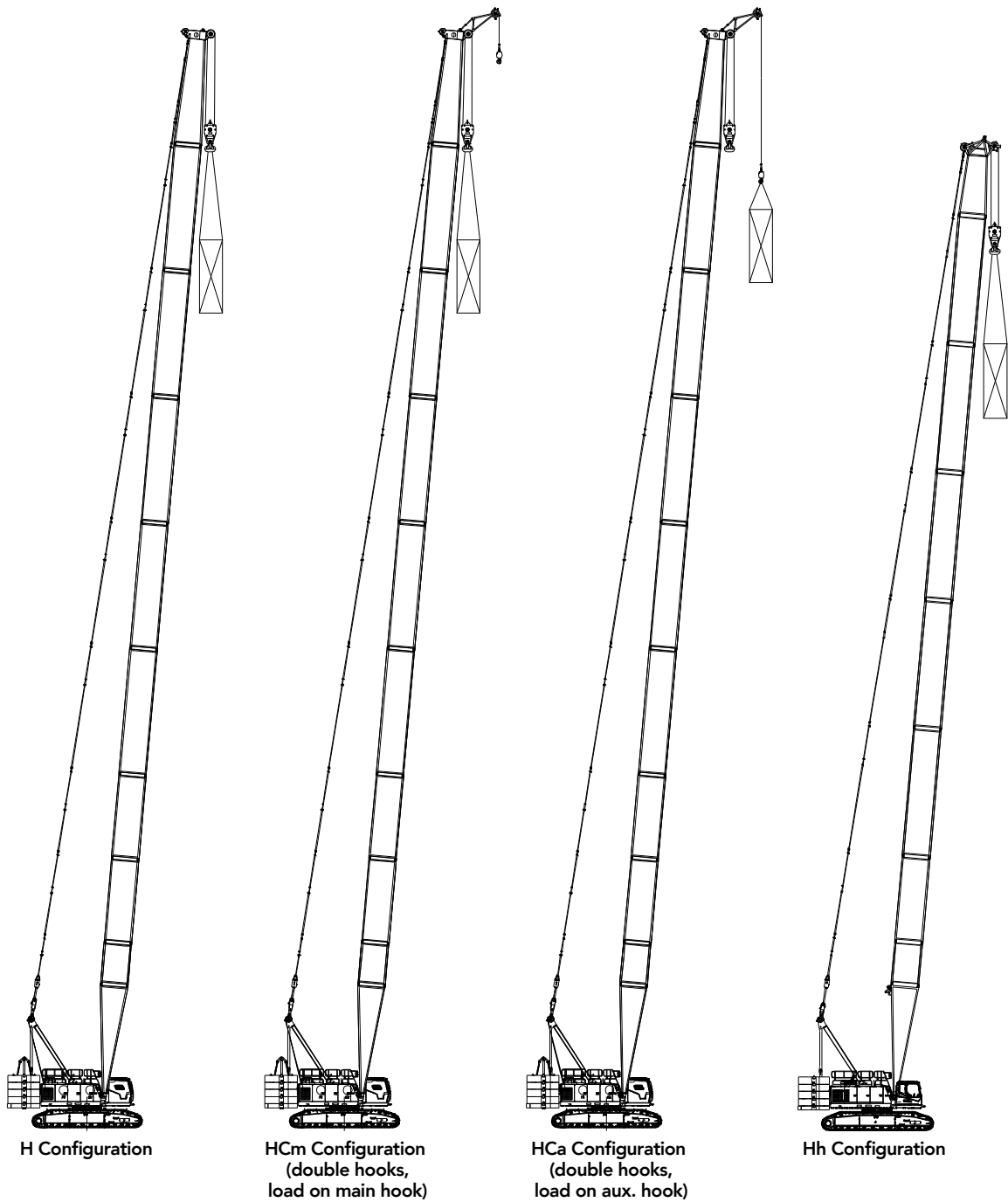
QUALITY CHANGES THE WORLD

Cofigurations

- Page 23 H Configuration
- Page 31 Hh Configuration
- Page 34 FJ Configuration
- Page 40 LJ Configuration

> 19

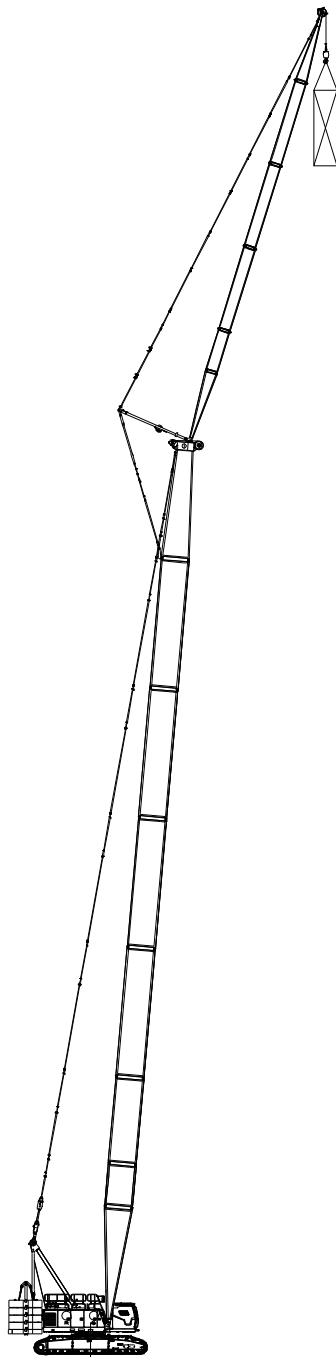
Boom Combination



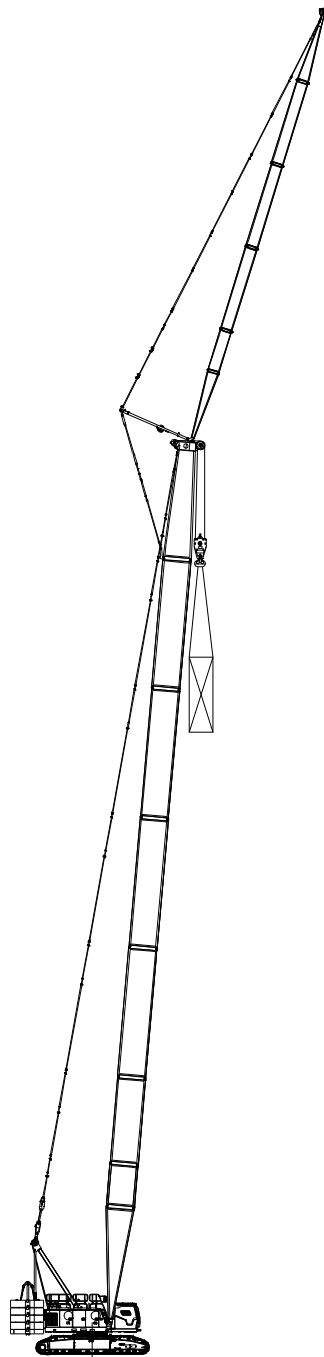
Configuration	Boom Combination	Boom Length
H	Boom	52.5ft~249.3ft (16m~76m)
HCm	Boom + Extension jib (double hooks, load on main hook)	
HCa	Boom + Extension jib (double hooks, load on aux. hook)	
Hh	Boom (with boom top special for LJ)	72.2ft~219.8ft (22m~67m)

Note: The schematics above are reference for loading only.

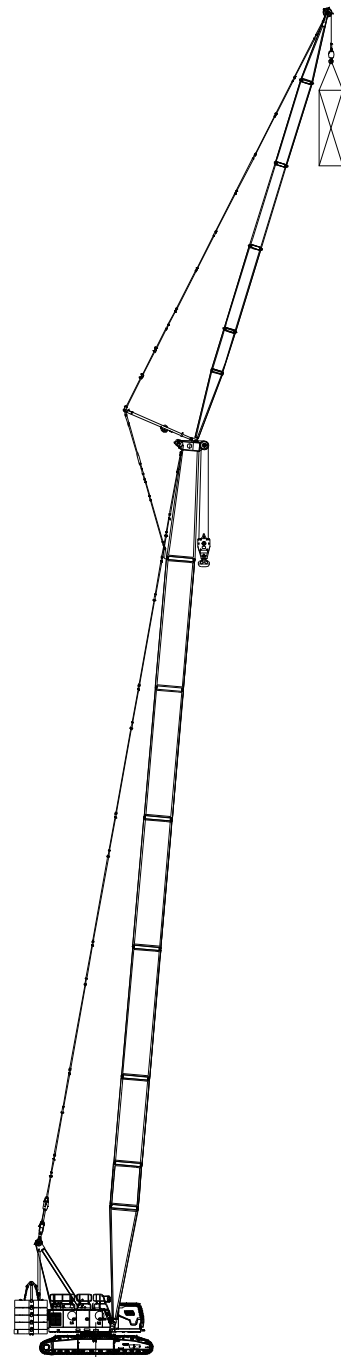
Boom Combination



FJ Configuration
(single hook)



FJm Configuration
(double hooks, load on main hook)

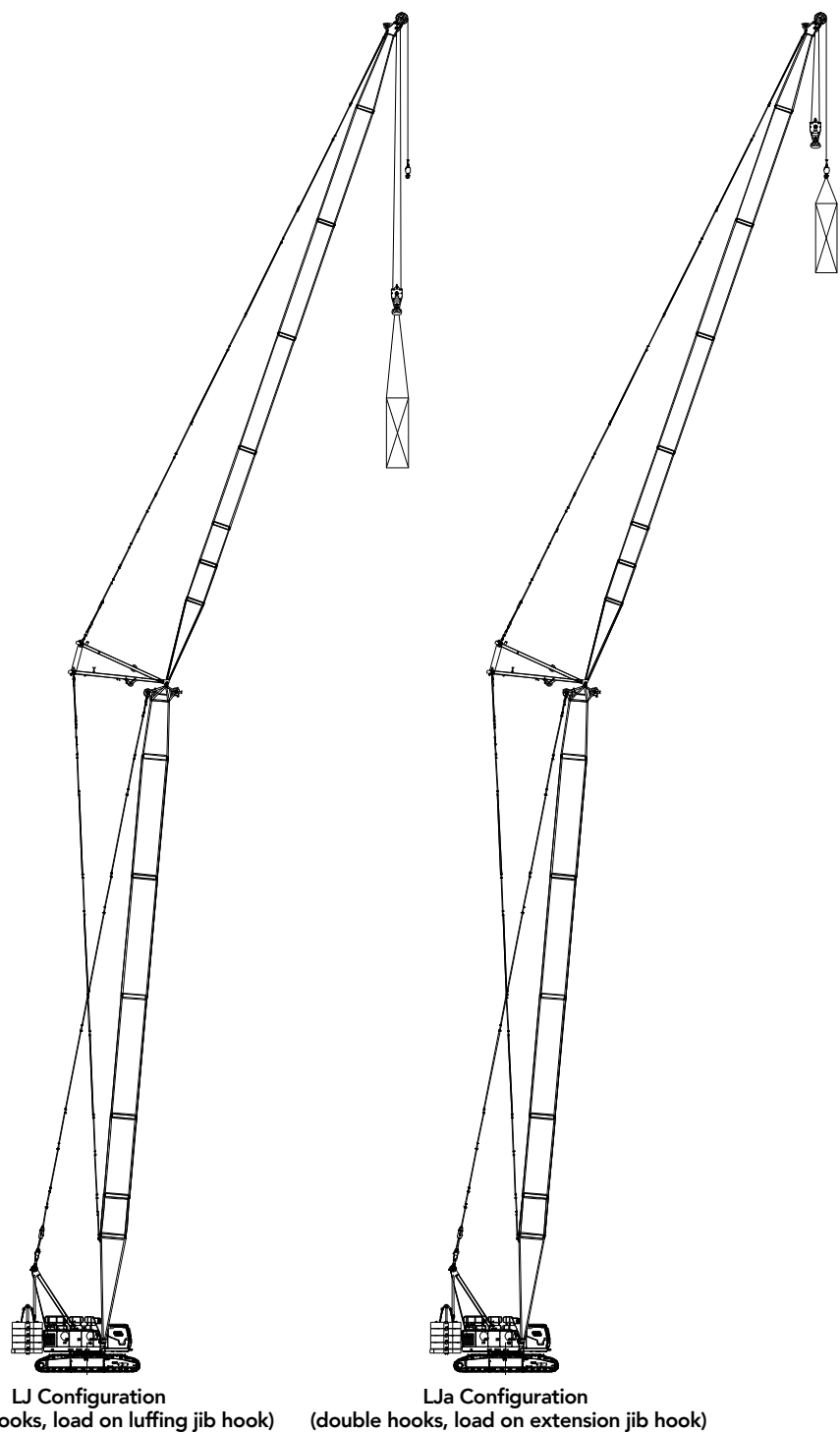


FJa Configuration
(double hooks, load on aux. hook)

Configuration	Boom Combination	Boom Length
FJ	Boom + Fixed Jib (single hook)	(72.2ft~200.1ft)+(42.7ft~101.7ft) (22m~61m)+(13m~31m)
FJm	Boom + Fixed Jib (double hooks, load on main hook)	
FJa	Boom + Fixed Jib (double hooks, load on aux. hook)	

Note: The schematics above are reference for loading only.

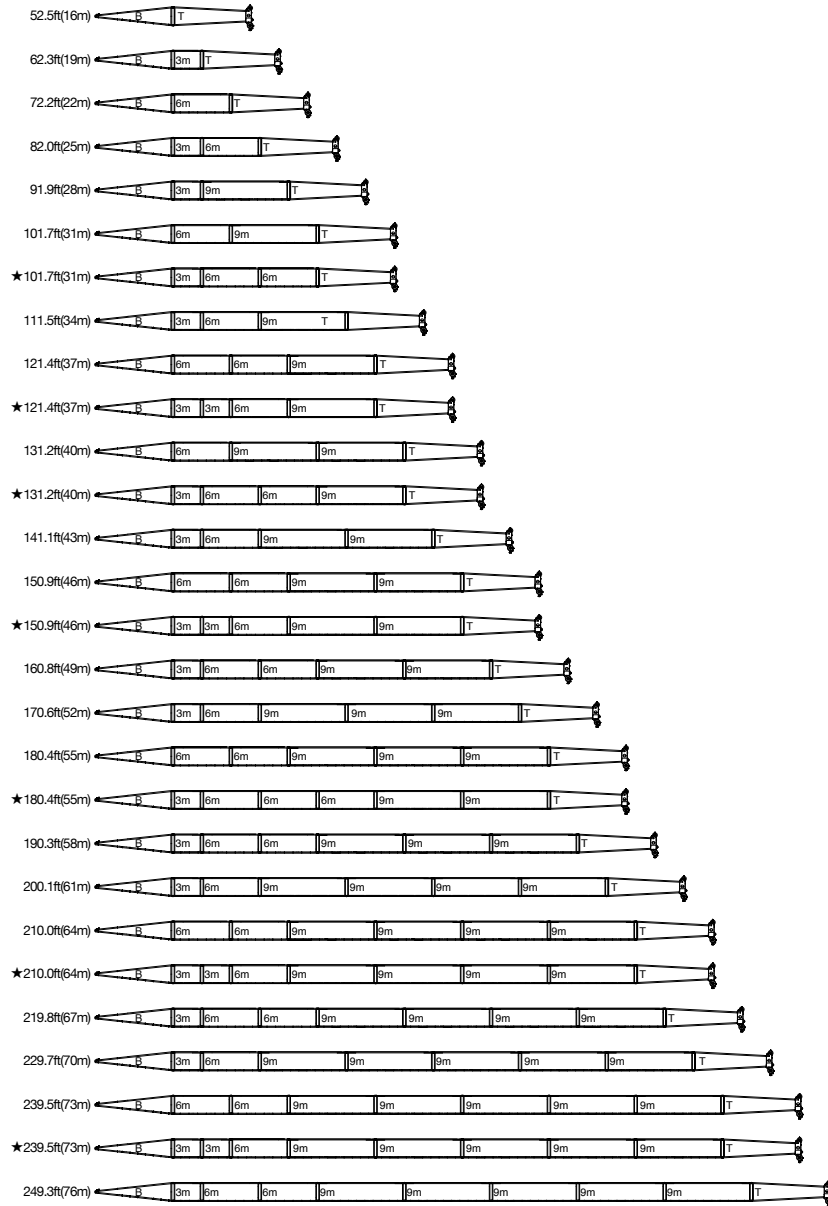
Boom Combination



Configuration	Boom Combination	Boom Length
LJ	Boom + Luffing Jib (double hooks, load on luffing jib hook)	160.8ft+170.6ft (49m+52m)
LJa	Boom + Luffing Jib (double hooks, load on extension jib hook)	

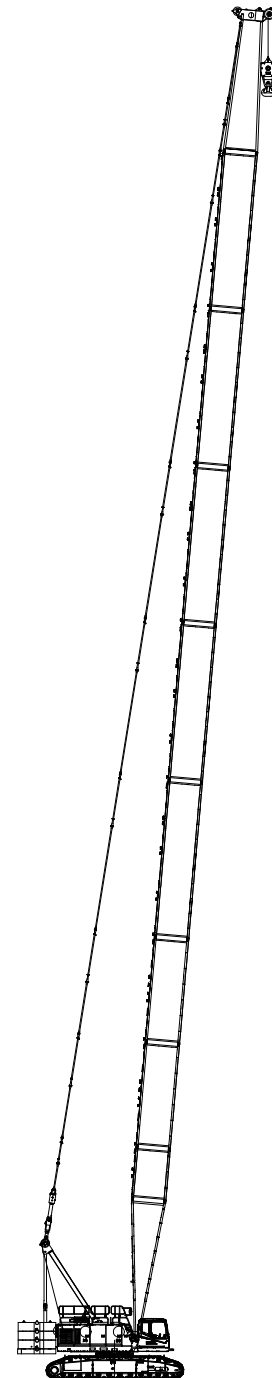
Note: The schematics above are reference for loading only.

H Configuration



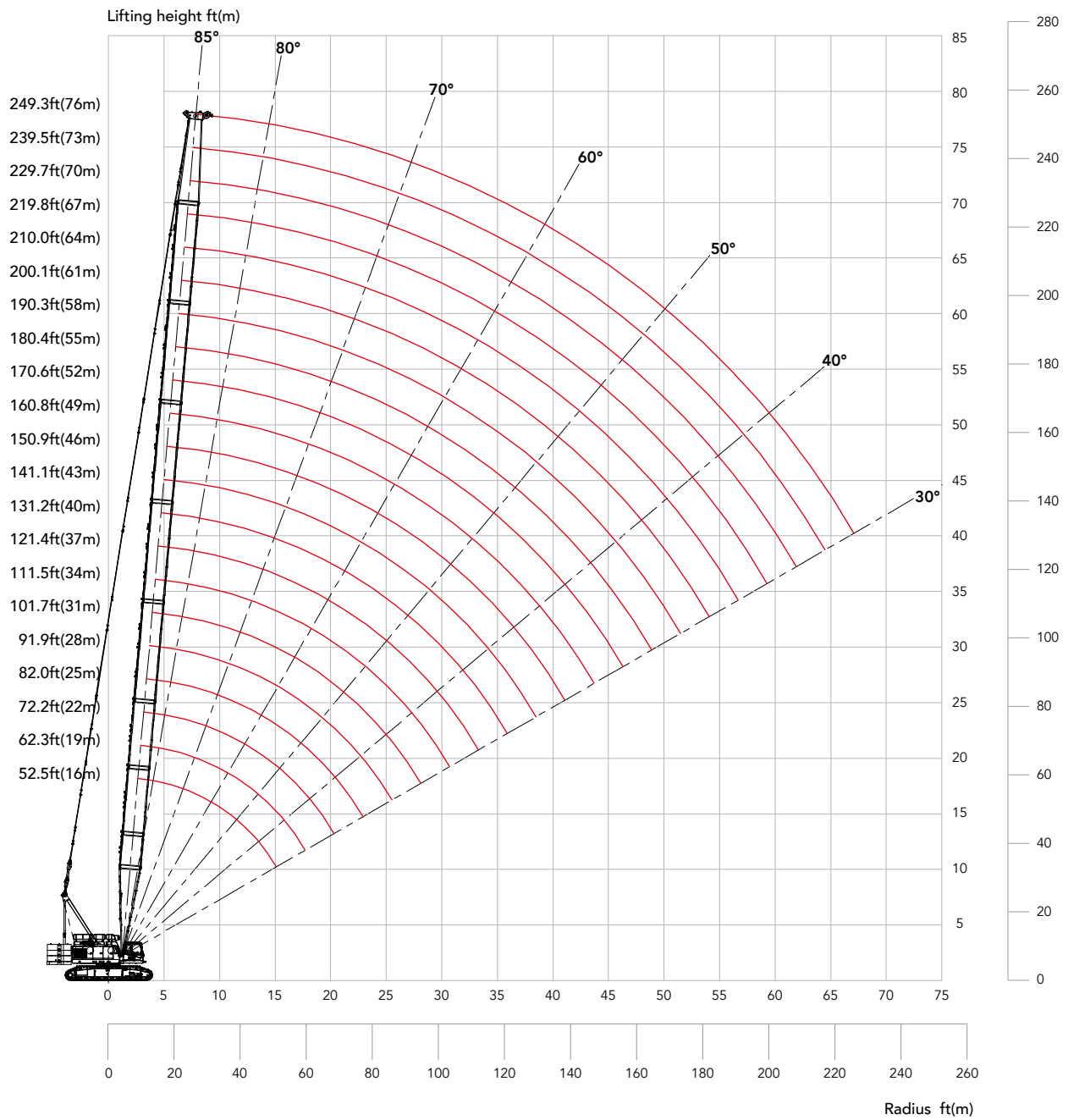
Note: The boom combinations with " ★ " are recommended for purchasing.

	Boom base
	9.8ft(3m) boom insert
	19.7ft(6m) boom insert
	29.5ft(9m) boom insert
	Boom top



H Configuration:
52.5ft~249.3ft(16m~76m)

H Working Radius



Unit:klb

H Load Chart

Note:

- 1.The rated load in the load chart is calculated complying with EN 13000;
- 2.The working radius is the horizontal distance from the load center to the swing center;
- 3.The actual lifting capacity must subtract the weight of hooks and other riggings from the rated capacity in the load chart.
- 4.The load value is calculated when the object is hung freely,without considering the influence of wind on the load, ground conditions and slope, operation speed and the influence of any other negative factors over safe operation. Therefore, the operator bears the responsibility of making a judgement and decreasing the load and lowering speed.
- 5.All ratings are calculated when the machine is parking on firm and level ground with less than 1% gradient.
6. See the Operation Manual for the complete load charts of HCm and HCa configurations.

SCA1350A crawler crane – H configuration load chart 1/6

Main hook, Boom 52~249ft, Without extension boom																
Boom length (ft)	52					62					72					Boom length (ft)
Counterweight (Klb)	119.0+	95.9+0	72.8+0	26.5+0	0+0	119.0+	95.9+0	72.8+0	26.5+0	0+0	119.0+	95.9+0	72.8+0	26.5+0	0+0	Counterweight (Klb)
Radius (ft)	44.1					44.1					44.1					Radius (ft)
15	300															15
16	291.4															16
17	279.0					277.0										17
18	264.9					263.2										18
19	250.7					249.4										19
20	238.4	226.3	183.0	129.8	86.8	236.7					235.2					20
22	218.8	201.6	162.2	118.1	79.9	214.0					212.6					22
24	199.3	178.0	142.8	105.3	71.5	194.8	176.8	141.8	104.5	71.1	193.4	173.3	139.6	103.2	69.8	24
26	180.0	155.3	124.5	91.6	62.0	178.2	154.2	123.6	90.9	61.5	176.7	153.1	122.7	90.4	61.2	26
28	166.6	139.3	111.6	82.0	55.3	165.2	138.3	110.9	81.3	54.9	163.8	137.6	110.1	80.9	54.6	28
30	154.5	125.1	100.1	73.5	49.4	153.2	124.3	99.5	72.8	48.9	151.9	123.6	98.9	72.4	48.7	30
32	144.3	113.9	91.0	66.7	44.6	143.1	113.2	90.5	66.1	44.4	142.0	112.6	90.0	65.8	44.0	32
34	135.5	105.1	83.8	61.4	40.9	134.5	104.5	83.3	60.8	40.7	133.4	103.9	82.9	60.5	40.3	34
36	127.6	97.5	77.8	56.8	37.8	126.6	96.9	77.2	56.3	37.6	125.7	96.4	76.8	56.0	37.1	36
38	119.7	89.9	71.7	52.3	34.6	118.7	89.4	71.1	51.8	34.4	118.0	88.9	70.7	51.4	34.0	38
40	112.3	83.3	66.4	48.3	31.9	111.4	82.9	65.8	47.9	31.6	110.8	82.4	65.4	47.4	31.2	40
45	96.3	71.2	56.5	40.9	26.8	95.6	70.6	56.1	40.5	26.4	95.2	70.3	55.6	40.2	26.2	45
50						83.6	61.6	48.7	34.9	22.6	83.2	61.2	48.3	34.7	22.4	50
55						73.9	54.2	42.8	30.5	19.5	73.4	53.9	42.3	30.2	19.3	55
60											65.5	47.9	37.5	26.5	16.8	60
65											59.1	43.0	33.7	23.7	14.8	65
Parts of line	12	9	8	5	4	11	8	6	5	3	10	7	6	5	3	Parts of line

H Load Chart**SCA1350A crawler crane – H configuration load chart 2/6**

Main hook, Boom 52~249ft, Without extension boom

Boom length (ft)	82					92					102					Boom length (ft)
Counterweight (Klb)	119.0+	95.9+0	72.8+0	26.5+0	0+0	119.0+	95.9+0	72.8+0	26.5+0	0+0	119.0+	95.9+0	72.8+0	26.5+0	0+0	Counterweight (Klb)
Radius (ft)	44.1					44.1					44.1					Radius (ft)
20	234.6															20
22	212.3															22
24	192.9	169.5	136.5	100.8	68.1	189.7					183.3					24
26	176.4	152.8	122.5	90.1	60.8	174.1					168.3					26
28	163.2	137.6	110.1	80.8	54.4	161.7	135.0	108.3	79.4	53.3	156.4	132.0	106.0	77.8	51.7	28
30	151.1	123.5	98.6	72.3	48.5	150.2	122.6	98.0	71.6	48.1	145.5	121.0	97.0	71.0	47.1	30
32	141.1	112.5	89.8	65.5	43.9	140.1	111.7	89.1	65.0	43.5	136.4	110.8	88.5	64.5	42.9	32
34	132.6	103.6	82.6	60.1	40.2	131.6	102.9	82.0	59.7	39.8	128.7	102.3	81.5	59.3	39.4	34
36	125.0	96.1	76.5	55.6	37.1	124.1	95.6	76.0	55.3	36.6	122.0	95.0	75.5	54.9	36.3	36
38	117.4	88.6	70.5	51.1	33.9	116.6	88.2	70.0	50.9	33.5	115.3	87.7	69.6	50.4	33.2	38
40	110.3	82.0	65.1	47.1	31.1	109.6	81.6	64.7	46.9	30.7	108.8	81.1	64.3	46.5	30.4	40
45	94.8	69.9	55.4	39.9	25.9	94.3	69.5	54.9	39.5	25.6	93.8	69.0	54.7	39.3	25.4	45
50	82.8	60.8	48.0	34.3	22.0	82.3	60.4	47.7	34.0	21.8	81.9	60.0	47.3	33.7	21.5	50
55	73.0	53.5	42.0	29.9	18.9	72.6	53.1	41.8	29.6	18.7	72.1	52.7	41.3	29.2	18.4	55
60	65.1	47.6	37.2	26.3	16.4	64.7	47.2	37.0	25.9	16.2	64.3	46.7	36.5	25.7	15.9	60
65	58.8	42.7	33.3	23.3	14.4	58.3	42.5	33.1	23.1	14.1	57.9	42.0	32.7	22.6	13.7	65
70	53.6	38.7	30.2	20.9	12.6	53.1	38.5	29.8	20.6	12.4	52.7	38.1	29.5	20.3	12.1	70
75						48.6	35.0	27.0	18.6	10.9	48.2	34.7	26.8	18.3	10.7	75
80							32.0	24.6			44.3	31.7	24.4	16.4	9.4	80
85							29.5	22.6			41.0	29.0	22.2	14.9	8.2	85
90											37.9	27.0	20.5		7.4	90
Parts of line	9	7	6	5	3	8	6	5	4	3	8	6	5	4	3	Parts of line

Unit:klb

H Load Chart

SCA1350A crawler crane – H configuration load chart 3/6

Main hook, Boom 52~249ft, Without extension boom																
Boom length (ft)	112					121					131					Boom length (ft)
Counterweight (Klb)	119.0+ 44.1	95.9+0	72.8+0	26.5+0	0+0	119.0+ 44.1	95.9+0	72.8+0	26.5+0	0+0	119.0+ 44.1	95.9+0	72.8+0	26.5+0	0+0	Counterweight (Klb)
Radius (ft)																Radius (ft)
24	177.7															24
26	163.1															26
28	151.6	128.1	102.8	75.3	49.9	147.6					137.3					28
30	141.0	117.9	94.4	69.0	45.4	137.3	114.9	91.9	66.9	43.9	133.2	111.9	89.5	65.0	42.4	30
32	132.3	109.4	87.3	63.7	41.8	128.9	106.9	85.3	62.0	40.4	125.0	104.1	83.1	60.1	39.1	32
34	124.9	101.7	80.9	58.9	38.6	121.7	99.6	79.4	57.5	37.5	118.0	97.3	77.5	56.0	36.2	34
36	118.3	94.3	75.0	54.4	35.6	115.4	92.9	73.9	53.4	34.8	111.8	91.2	72.5	52.3	33.7	36
38	111.8	87.0	69.1	50.0	32.7	109.0	86.2	68.4	49.3	32.2	105.6	85.1	67.5	48.6	31.2	38
40	105.7	80.5	63.8	46.0	30.0	103.3	80.1	63.4	45.6	29.8	100.0	79.4	62.9	45.2	28.9	40
45	92.8	68.6	54.1	38.8	25.0	91.7	68.1	53.8	38.4	24.6	88.9	67.7	53.4	37.9	24.2	45
50	81.4	59.5	46.8	33.2	21.2	81.0	59.1	46.4	32.9	20.7	79.5	58.6	46.1	32.5	20.5	50
55	71.7	52.2	40.9	28.8	18.0	71.7	51.9	40.5	28.5	17.6	70.8	51.4	40.2	28.1	17.4	55
60	63.8	46.3	36.1	25.2	15.5	63.8	46.0	35.6	24.8	15.0	62.9	45.6	35.4	24.6	14.8	60
65	57.4	41.6	32.2	22.4	13.5	57.4	41.2	31.8	22.0	13.0	56.6	40.7	31.6	21.5	12.8	65
70	52.2	37.6	29.1	20.0	11.8	52.2	37.2	28.6	19.5	11.3	51.5	36.9	28.3	19.2	11.1	70
75	47.8	34.2	26.4	17.8	10.3	47.8	33.8	25.9	17.5	9.8	47.0	33.5	25.6	17.2	9.6	75
80	43.9	31.3	23.9	15.9	9.0	43.9	30.9	23.5	15.7	8.6	43.0	30.4	23.3	15.3	8.3	80
85	40.3	28.6	21.7	14.4	7.8	40.3	28.4	21.5	14.2	7.6	39.7	27.9	21.1	13.8	7.1	85
90	37.4	26.5	20.0	13.1	6.9	37.4	26.2	19.6	12.8	6.5	36.8	25.7	19.4	12.4	6.1	90
95	34.9	24.5	18.4	11.8	6.1	34.9	24.2	18.0	11.6	5.7	34.1	23.7	17.8	11.2	5.2	95
100						32.6	22.4	16.6	10.5		31.8	22.0	16.3	10.1		100
105											29.8	20.5	15.0	9.3		105
110											27.9	19.0	13.8	8.4		110
115											26.2	17.7	12.7	7.6		115
Parts of line	7	6	5	4	3	6	5	4	3	2	6	5	4	3	2	Parts of line

H Load Chart**SCA1350A crawler crane – H configuration load chart 4/6**

Main hook, Boom 52~249ft, Without extension boom

Boom length (ft)	141				151				161				Boom length (ft)
Counterweight (Klb)	119.0+	95.9+0	72.8+0	26.5+0	119.0+	95.9+0	72.8+0	26.5+0	119.0+	95.9+0	72.8+0	26.5+0	Counterweight (Klb)
Radius (ft)	119.0+	95.9+0	72.8+0	26.5+0	119.0+	95.9+0	72.8+0	26.5+0	119.0+	95.9+0	72.8+0	26.5+0	Radius (ft)
30	119.3	108.9	86.9	63.0	116.4				113.1				30
32	113.9	101.4	80.8	58.3	111.7				105.9				32
34	109.4	95.0	75.5	54.4	107.3	92.7	73.6	52.9	100.9	90.3	71.7	51.4	34
36	105.3	89.4	71.0	51.0	103.1	87.3	69.2	49.5	97.4	85.1	67.4	48.1	36
38	101.3	83.8	66.4	47.5	99.0	81.9	64.8	46.2	93.9	79.9	63.1	44.8	38
40	97.2	78.6	62.1	44.3	94.8	76.9	60.7	43.1	90.4	75.1	59.2	41.8	40
45	86.6	67.2	52.9	37.4	84.4	66.5	52.3	37.1	81.8	65.7	51.5	35.9	45
50	77.5	58.2	45.7	32.0	75.7	57.7	45.2	31.8	73.8	57.2	44.7	31.1	50
55	69.6	51.0	39.8	27.7	68.3	50.5	39.4	27.4	66.6	50.1	38.9	26.9	55
60	62.5	45.1	35.0	24.1	61.7	44.7	34.5	23.7	60.3	44.3	34.1	23.3	60
65	56.1	40.3	31.1	21.3	55.6	40.0	30.7	20.8	55.1	39.4	30.2	20.4	65
70	50.9	36.4	27.8	18.9	50.6	36.1	27.5	18.4	50.0	35.6	27.1	18.0	70
75	46.4	33.0	25.1	16.8	46.1	32.7	24.8	16.4	45.6	32.2	24.4	15.9	75
80	42.6	30.0	22.8	15.0	42.1	29.7	22.4	14.6	41.7	29.3	22.0	14.2	80
85	39.2	27.5	20.6	13.3	38.8	27.1	20.4	13.1	38.3	26.6	20.0	12.7	85
90	36.3	25.3	18.9	12.0	35.9	25.0	18.5	11.7	35.4	24.6	18.1	11.1	90
95	33.7	23.3	17.3	10.8	33.4	23.1	16.9	10.5	32.8	22.6	16.5	9.9	95
100	31.3	21.6	15.9	9.8	31.1	21.3	15.4	9.4	30.4	20.9	15.0	8.9	100
105	29.3	20.1	14.5	8.8	28.9	19.6	14.1	8.4	28.4	19.2	13.7	7.7	105
110	27.5	18.5	13.4	8.0	27.0	18.3	13.1	7.5	26.6	17.8	12.7	6.9	110
115	25.7	17.3	12.3	7.1	25.3	16.9	12.1	6.7	24.8	16.5	11.6	6.1	115
120	24.1	16.1	11.4	6.4	23.7	15.7	11.1	5.9	23.3	15.3	10.6	5.4	120
125					22.4	14.7	10.1	5.3	22.0	14.3	9.7		125
130					21.0	13.7	9.4	4.8	20.6	13.3	9.0		130
135									19.4	12.4	8.2		135
140									18.3	11.5	7.4		140
Parts of line	5	5	4	3	5	4	3	3	5	4	3	3	Parts of line

Unit:klb

H Load Chart

SCA1350A crawler crane – H configuration load chart 5/6

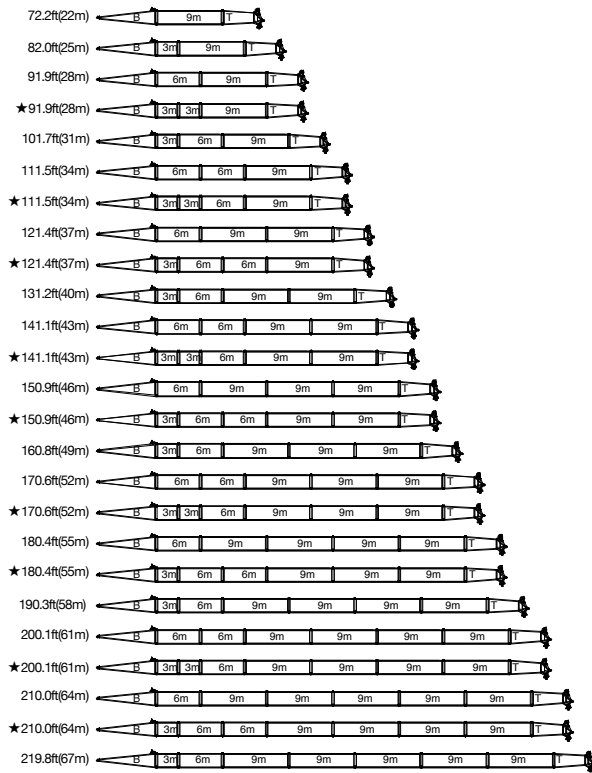
Main hook, Boom 52~249ft, Without extension boom										
Boom length (ft)	171			180			190			Boom length (ft)
Counterweight (Klb)	119.0+44.1	95.9+0	72.8+0	119.0+44.1	95.9+0	72.8+0	119.0+44.1	95.9+0	72.8+0	Counterweight (Klb)
Radius (ft)										Radius (ft)
34	98.9	88.2	69.8	96.9			86.8			34
36	96.1	83.1	65.7	94.2			84.1			36
38	93.4	78.0	61.5	91.4			81.4			38
40	90.2	73.4	57.7	88.3	71.8	56.4	79.1	70.1	54.9	40
45	80.1	64.3	50.1	78.3	62.7	49.0	75.2	61.4	47.6	45
50	72.1	56.5	43.9	70.3	55.6	43.1	68.6	54.3	41.9	50
55	65.1	49.7	38.5	63.5	49.2	37.9	62.0	48.2	37.0	55
60	59.0	43.9	33.7	57.7	43.4	33.2	56.2	43.0	32.8	60
65	53.8	39.2	29.8	52.6	38.7	29.5	51.3	38.3	29.1	65
70	49.4	35.2	26.7	48.3	34.7	26.3	47.0	34.3	25.9	70
75	45.2	31.8	23.9	44.4	31.4	23.6	43.3	30.9	23.1	75
80	41.3	28.9	21.5	40.8	28.5	21.3	40.0	28.0	20.8	80
85	37.9	26.4	19.5	37.5	25.9	19.1	37.0	25.5	18.6	85
90	35.0	24.2	17.7	34.6	23.7	17.4	34.1	23.3	16.9	90
95	32.5	22.2	16.1	32.0	21.8	15.8	31.6	21.3	15.3	95
100	30.2	20.4	14.8	29.7	20.0	14.3	29.3	19.6	13.7	100
105	28.0	18.7	13.4	27.5	18.5	13.0	27.1	18.1	12.3	105
110	26.1	17.4	12.3	25.7	17.0	11.8	25.3	16.6	11.3	110
115	24.5	16.2	11.2	24.1	15.7	10.8	23.6	15.3	10.2	115
120	23.0	15.0	10.3	22.6	14.5	9.8	22.1	14.1	9.2	120
125	21.5	13.8	9.4	21.1	13.4	9.0	20.6	12.9	8.3	125
130	20.2	12.8	8.6	19.7	12.5	8.1	19.3	12.1	7.5	130
135	19.0	11.9	7.9	18.6	11.6	7.4	18.2	11.1	6.8	135
140	17.8	11.1	7.2	17.6	10.7	6.8	17.1	10.3	6.1	140
145	16.8	10.3	6.5	16.4	10.0	6.1	16.0	9.6	5.4	145
150	15.8	9.6	5.9	15.6	9.2	5.6	15.1	8.7	4.7	150
155				14.6	8.5	5.0	14.2	8.0		155
160							13.3	7.5		160
Parts of line	4	4	3	4	3	3	4	3	3	Parts of line

H Load Chart**SCA1350A crawler crane – H configuration load chart 6/6**

Main hook, Boom 52~249ft, Without extension boom

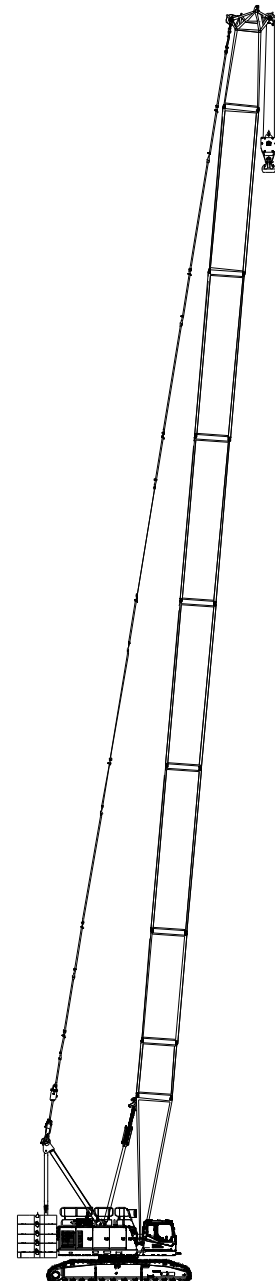
Boom length (ft)	200		210		220		230	239	249	Boom length (ft)
Counterweight (Klb)	119.0+44.1	95.9+0	119.0+44.1	95.9+0	119.0+44.1	95.9+0	119.0+44.1	119.0+44.1	119.0+44.1	Counterweight (Klb)
Radius (ft)										
40	77.4	68.4	72.0		66.0		60.4	52.9	49.7	40
45	73.7	60.0	69.1		63.5		58.9	52.7	49.1	45
50	67.1	53.1	64.5	51.8	60.3	50.5	56.9	51.9	48.4	50
55	60.5	47.2	59.1	46.1	56.5	45.0	54.3	50.8	47.5	55
60	54.9	42.2	53.6	41.1	52.2	40.2	50.9	49.1	46.1	60
65	50.0	37.8	48.9	37.1	47.5	36.0	46.4	45.2	43.9	65
70	45.8	34.0	44.7	33.5	43.6	32.7	42.5	41.5	40.4	70
75	42.2	30.6	41.1	30.3	40.1	29.5	39.0	38.1	37.0	75
80	39.0	27.6	37.9	27.3	37.0	26.5	35.9	35.0	33.9	80
85	36.1	25.1	35.0	24.6	34.1	24.0	33.2	32.1	31.2	85
90	33.6	22.9	32.5	22.6	31.6	21.8	30.7	29.8	28.9	90
95	31.1	20.9	30.2	20.7	29.3	19.8	28.4	27.6	26.7	95
100	28.9	19.1	28.1	18.9	27.2	18.0	26.3	25.6	24.8	100
105	26.9	17.6	26.2	17.2	25.3	16.5	24.5	23.8	22.9	105
110	25.0	16.3	24.5	15.8	23.7	15.0	22.8	22.1	21.2	110
115	23.3	14.9	22.9	14.5	22.1	13.7	21.2	20.6	19.7	115
120	21.7	13.7	21.3	13.3	20.6	12.6	19.8	19.1	18.2	120
125	20.2	12.7	20.0	12.3	19.1	11.4	18.4	17.8	16.9	125
130	19.0	11.7	18.6	11.3	17.9	10.4	17.3	16.6	15.7	130
135	17.8	10.8	17.4	10.3	16.7	9.5	16.1	15.4	14.5	135
140	16.7	10.0	16.3	9.3	15.6	8.7	15.0	14.3	13.4	140
145	15.7	9.2	15.3	8.5	14.6	7.8	14.0	13.3	12.5	145
150	14.7	8.5	14.3	7.8	13.6	7.2	13.0	12.3	11.6	150
155	13.9	7.8	13.4	7.2	12.8	6.5	12.1	11.4	10.8	155
160	13.0	7.2	12.6	6.5	11.9	5.8	11.3	10.6	9.9	160
165	12.2		11.8		11.1		10.4	9.8	9.1	165
170	11.5		11.1		10.4		9.8	9.1	8.5	170
175	10.7		10.4		9.8		9.1	8.4	7.8	175
180			9.8		9.1		8.4	7.8	7.1	180
185					8.5		7.8	7.1	6.3	185
190					8.0		7.3	6.6	5.3	190
195							6.6	6.0		195
200							6.1			200
Parts of line	3	3	3	3	3	3	3	2	2	Parts of line

Hh Configuration



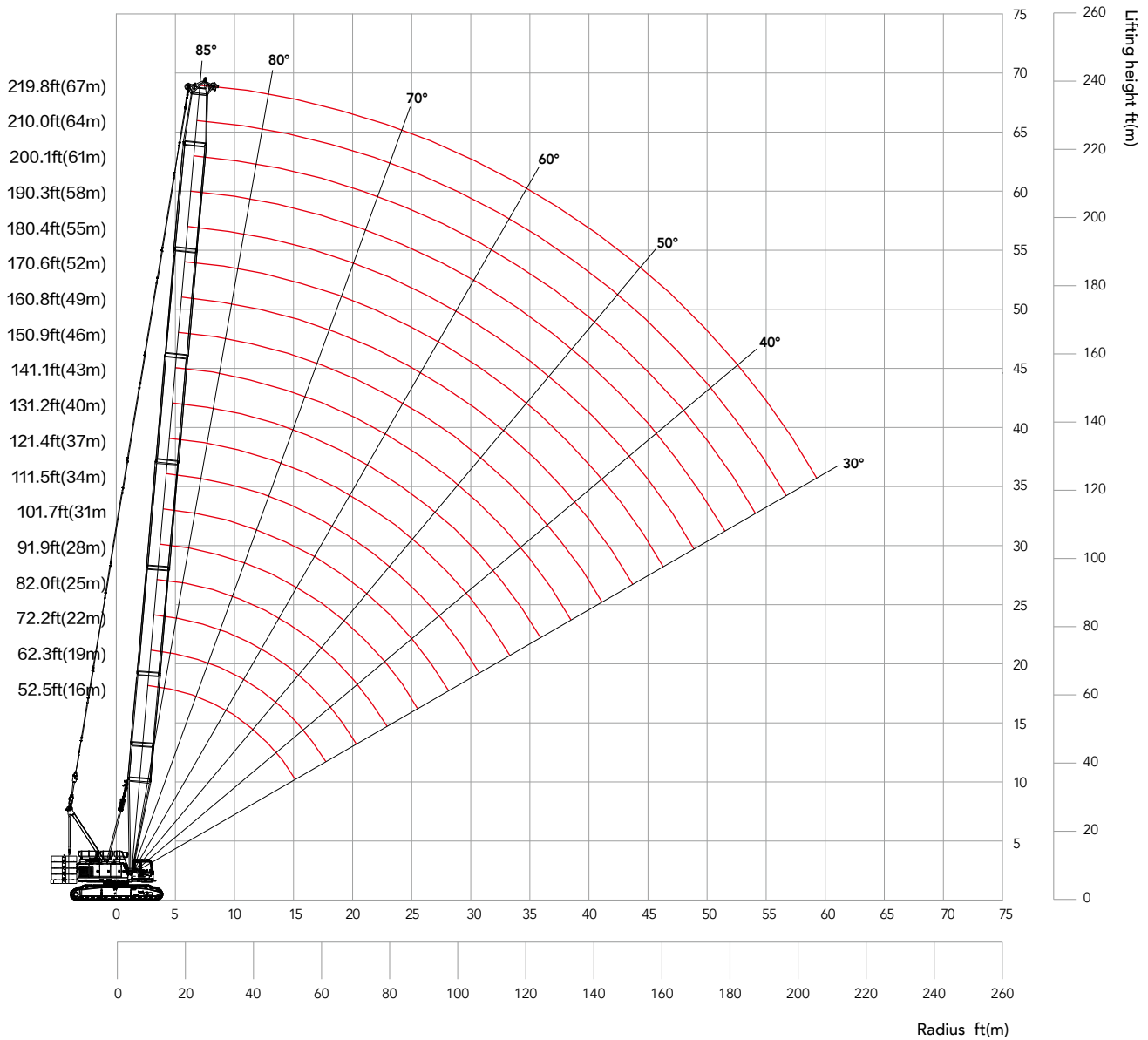
Note: The boom combinations with " ★ " are recommended for purchasing.

	Boom base
	9.8ft(3m) boom insert
	19.7ft(6m) boom insert
	29.5ft(9m) boom insert
	Boom top (special for LJ)



Hh Configuration
72.2ft~220.8ft(22m~67m)

Hh Working Radius



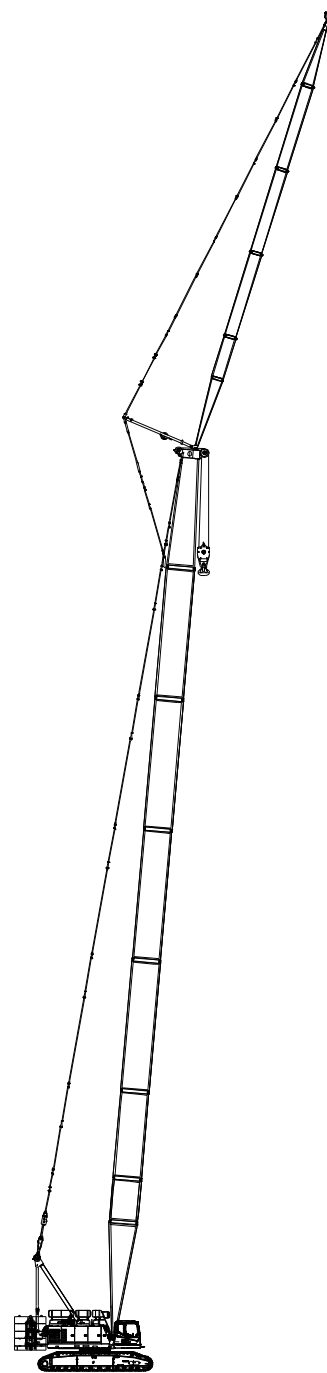
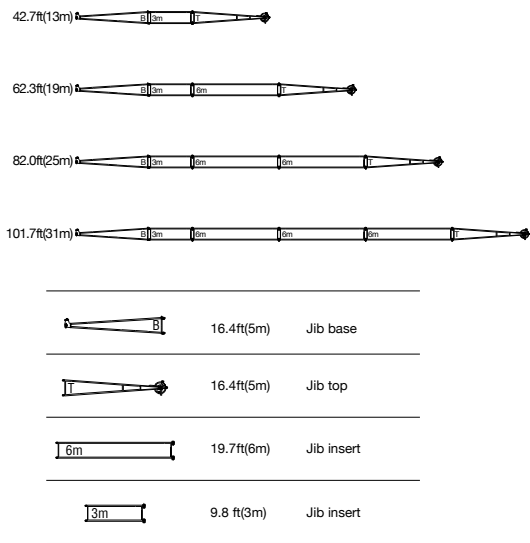
Unit:klb

Hh Load Chart

SCA1350A crawler crane – Hh configuration load chart

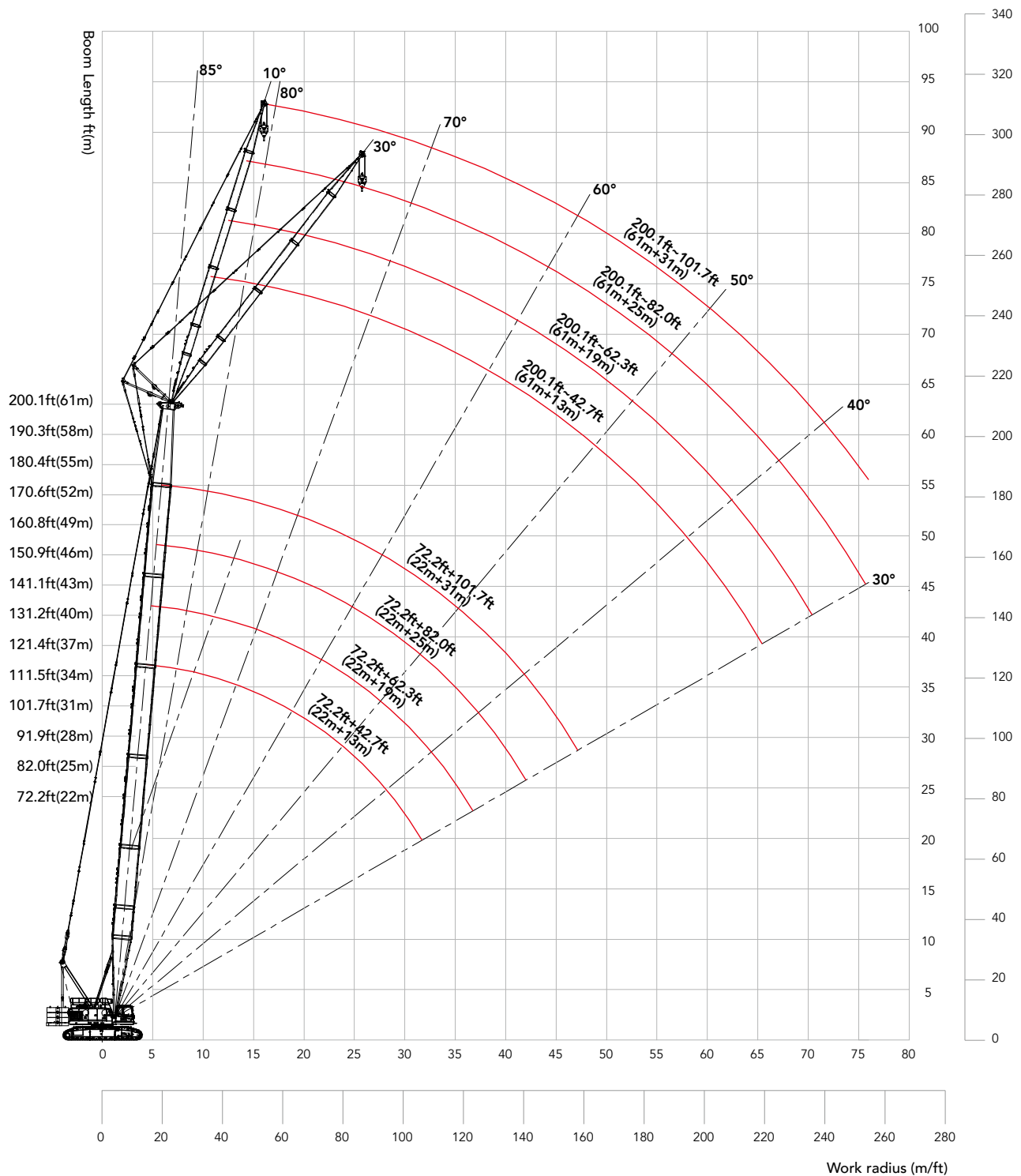
Main hook, Boom 72~220ft, Rear counterweight 119 klbs, Carbody counterweight 44klbs																	
Boom length (ft) Radius (ft)	72	82	92	102	112	121	131	141	151	161	171	180	190	200	210	220	Boom length (ft) Radius (ft)
24	158.3	157.7	157.1														24
26	157.3	156.5	155.6														26
28	155.9	154.8	153.9	151.0	148.2	145.9	137.3	127.8									28
30	152.4	151.1	150.2	145.5	141.0	137.3	133.2	119.3	116.4	113.1	105.6	104.0	92.9				30
32	142.5	141.1	140.1	136.4	132.3	128.9	125.0	113.9	111.7	105.9	102.0	100.1	89.7				32
34	133.8	132.6	131.6	128.7	124.9	121.7	118.0	109.4	107.3	100.9	98.9	96.9	86.8	83.1	74.8	67.8	34
36	126.1	125.0	124.1	122.0	118.3	115.4	111.8	105.3	103.1	97.4	96.1	94.2	84.1	81.1	73.9	67.3	36
38	118.4	117.4	116.6	115.3	111.8	109.0	105.6	101.3	99.0	93.9	93.4	91.4	81.4	79.2	73.0	66.7	38
40	111.1	110.3	109.6	108.8	105.7	103.3	100.0	97.2	94.8	90.4	90.2	88.2	79.0	77.0	71.9	66.0	40
45	95.5	94.8	94.3	93.8	92.8	91.7	88.9	86.6	84.4	81.8	80.1	77.6	73.9	70.6	68.2	63.5	45
50	83.4	82.8	82.3	81.9	81.4	81.0	79.5	77.5	75.7	73.8	72.1	69.2	66.5	63.6	61.6	58.4	50
55	73.6	73.0	72.6	72.1	71.7	71.7	70.8	69.6	68.3	66.6	65.1	62.0	59.7	57.2	55.1	52.9	55
60	65.6	65.1	64.7	64.3	63.8	63.8	62.9	62.5	61.7	60.3	59.0	55.8	53.9	51.8	49.6	47.9	60
65	59.2	58.8	58.3	57.9	57.4	57.4	56.6	56.1	55.6	55.1	53.8	51.1	48.9	46.9	45.1	43.5	65
70		53.6	53.1	52.7	52.2	52.2	51.5	50.9	50.6	50.0	49.4	46.8	44.9	42.9	41.4	39.7	70
75			48.6	48.2	47.8	47.8	47.0	46.4	46.1	45.6	45.2	42.9	41.2	39.4	38.1	36.3	75
80				44.3	43.9	43.9	43.0	42.6	42.1	41.7	41.3	39.4	37.9	36.4	35.0	33.3	80
85				41.0	40.3	40.3	39.7	39.2	38.8	38.3	37.9	36.5	35.0	33.7	32.1	30.8	85
90				37.9	37.4	37.4	36.8	36.3	35.9	35.4	35.0	33.8	32.5	31.1	29.6	28.4	90
95					34.8	34.9	34.1	33.7	33.4	32.8	32.5	31.5	30.2	28.8	27.5	26.3	95
100						32.5	31.8	31.3	31.1	30.4	30.2	29.3	28.0	26.7	25.6	24.4	100
105							29.8	29.3	28.9	28.4	28.0	27.1	26.0	24.7	23.8	22.7	105
110							27.6	27.5	27.0	26.6	26.1	25.1	24.2	23.2	22.1	21.0	110
115							25.0	25.4	25.3	24.8	24.3	23.4	22.4	21.7	20.6	19.5	115
120								23.2	23.4	23.2	22.4	21.8	20.9	20.1	19.0	18.0	120
125									21.3	21.5	20.6	20.0	19.5	18.6	17.5	16.7	125
130									19.4	19.6	19.1	18.6	18.0	17.1	16.2	15.5	130
135										18.0	17.5	17.3	16.7	16.0	15.0	14.4	135
140										16.4	15.9	15.9	15.5	14.8	14.0	13.4	140
145											14.6	14.6	14.2	13.5	13.1	12.2	145
150											13.2	13.2	13.0	12.3	11.9	11.2	150
155												11.9	11.7	11.4	10.9	10.2	155
160													10.5	10.4	9.9	9.2	160
165														9.2	9.0	8.2	165
170														8.1	7.8	7.6	170
175														7.2	7.0	6.8	175
180															6.1	5.9	180
Parts of line	6	6	6	6	6	6	6	6	5	5	5	4	4	4	3	3	Parts of line

FJ Configuration



FJ Configuration
(72.2ft~200.1ft)+(42.7ft~101.7ft)
(22m~61m)+(13m~31m)

FJ Working Radius



FJ Load Chart

Note:

- 1.The rated load in the load chart is calculated complying with EN 13000.
- 2.The working radius is the horizontal distance from the load center to the swing center.
- 3.The actual lifting capacity must subtract the weight of hooks and other riggings from the rated capacity in the load chart.
- 4.The load value is calculated when the object is hung freely,without considering the influence of wind on the load, ground conditions and slope, operation speed and the influence of any other negative factors over safe operation. Therefore, the operator bears the responsibility of making a judgement and decreasing the load and lowering speed.
5. All ratings are calculated when the machine is parking on firm and level ground with less than 1% gradient.
6. When the jib length is 42.7ft (13m), 1 part of line shall not be permitted.
7. See the Operation Manual for the complete load charts of FJ, FJm and FJa configurations.

SCA1350A crawler crane – FJ configuration load chart 1/4

Aux. hook, Boom 72~200ft, Rear counterweight 119klbs, Carbody counterweight 44klbs, Jib 43ft, Boom to jib angle 10°,without main hook															
Boom length (ft) Radius (ft)	72	82	92	102	112	121	131	141	151	161	171	180	190	200	Boom length (ft) Radius (ft)
30	59.5	59.5													30
32	59.5	59.5													32
34	59.5	59.3	59.5	59.1	59.1										34
36	59.4	59.0	59.3	59.1	59.1										36
38	59.4	58.7	59.2	59.1	59.1										38
40	59.2	58.3	58.9	59.0	59.0	58.4	56.9	55.3							40
45	58.0	57.1	57.8	58.1	58.5	58.4	56.9	55.3							45
50	56.9	55.7	56.5	56.9	57.5	57.7	56.8	55.5	53.8	52.0	50.5	48.5			50
55	56.0	54.5	55.2	55.4	56.1	56.6	56.2	55.0	53.5	51.8	50.0	47.9	46.7	44.9	55
60	55.1	53.5	53.8	53.6	54.5	54.9	54.9	53.3	52.4	50.7	48.7	46.6	45.9	44.2	60
65	53.7	52.0	51.6	51.6	52.1	52.5	51.4	49.8	48.5	47.2	46.0	44.6	43.5	42.3	65
70	51.5	50.0	49.6	49.3	49.5	49.3	47.8	46.3	45.1	43.8	42.7	41.5	40.4	39.3	70
75	48.4	47.5	47.0	46.6	46.4	46.0	44.6	43.1	42.0	40.7	39.6	38.6	37.5	36.4	75
80	44.8	44.3	43.9	43.5	43.0	42.8	41.6	40.4	39.3	38.0	36.9	36.0	34.9	33.8	80
85	41.4	41.0	40.5	40.1	39.7	39.6	39.0	37.8	36.7	35.6	34.5	33.6	32.5	31.7	85
90	38.5	38.1	37.7	37.4	36.9	36.8	36.1	35.5	34.5	33.4	32.5	31.5	30.5	29.6	90
95	36.0	35.6	35.1	34.8	34.3	34.2	33.6	33.1	32.5	31.7	30.6	29.6	28.7	27.8	95
100	33.8	33.3	32.9	32.4	32.0	31.9	31.3	30.9	30.4	30.0	28.9	27.9	27.0	26.1	100
105		31.1	30.9	30.4	30.0	29.8	29.1	28.9	28.4	28.0	27.5	26.2	25.4	24.5	105
110		29.4	29.0	28.6	28.1	28.1	27.4	27.0	26.6	26.1	25.7	25.2	24.5	23.1	110
115			27.3	27.0	26.5	26.4	25.7	25.3	24.8	24.5	24.1	23.7	23.2	22.0	115
120			25.7	25.4	25.0	24.8	24.2	23.7	23.3	23.0	22.6	22.2	21.8	20.9	120
125				23.9	23.5	23.5	22.8	22.4	22.0	21.5	21.1	20.9	20.4	19.5	125
130				22.8	22.3	22.2	21.5	21.0	20.6	20.3	19.9	19.5	19.1	18.4	130
135					21.2	20.9	20.3	19.8	19.5	19.2	18.7	18.3	17.8	17.3	135
140						19.8	19.2	18.7	18.4	18.1	17.6	17.2	16.7	16.3	140
145							18.2	17.7	17.3	17.1	16.6	16.2	15.7	15.3	145
150							17.3	16.9	16.5	16.1	15.6	15.4	14.7	14.3	150
155							16.4	15.9	15.6	15.2	14.7	14.4	13.9	13.4	155
160								15.1	14.8	14.3	13.9	13.5	13.0	12.6	160
165									14.0	13.5	13.1	12.6	12.2	11.7	165
170									13.3	12.7	12.2	11.8	11.3	10.9	170
175										12.0	11.5	11.1	10.6	10.2	175
180											11.3	10.9	10.4	9.5	180
185												10.2	9.8	8.9	185
190													9.7	8.6	190
195														8.1	195
200														7.7	200
205														7.3	205
210															210
215															215
Parts of line	3	3	3	3	3	3	3	3	3	2	2	2	2	2	Parts of line

Unit:klb

FJ Load Chart

SCA1350A crawler crane – FJ configuration load chart 2/4

Aux. hook, Boom 72~200ft, Rear counterweight 119klbs, Carbody counterweight 44klbs,
Jib 102ft, Boom to jib angle 10°, without main hook

Boom length Radius (ft)	72	82	92	102	112	121	131	141	151	161	171	180	190	200	Boom length Radius (ft)
55	15.9	15.9													55
60	15.5	15.5	15.5	15.5	15.4										60
65	15.0	15.0	15.2	15.2	15.0										65
70	14.6	14.6	14.7	14.8	14.7	14.7	14.7	14.6							70
75	14.2	14.2	14.3	14.4	14.4	14.4	14.4	14.3	14.3	14.1	14.0	13.9			75
80	13.8	13.8	14.0	14.0	14.0	14.0	14.0	14.0	14.0	13.9	13.8	13.7	13.5	13.2	80
85	13.4	13.4	13.6	13.6	13.6	13.8	13.8	13.6	13.6	13.6	13.7	13.4	13.3	13.1	85
90	13.0	13.0	13.2	13.3	13.3	13.4	13.4	13.3	13.3	13.3	13.4	13.2	13.0	12.8	90
95	12.7	12.7	12.9	13.0	13.0	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.7	12.7	95
100	12.4	12.5	12.6	12.7	12.7	12.8	12.8	12.8	12.8	12.8	12.8	12.7	12.5	12.5	100
105	12.1	12.2	12.2	12.4	12.4	12.6	12.6	12.6	12.6	12.6	12.6	12.4	12.4	12.2	105
110	11.8	11.8	12.0	12.1	12.1	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.1	12.1	110
115	11.4	11.5	11.7	11.9	11.9	11.9	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.9	115
120	11.1	11.3	11.4	11.6	11.6	11.6	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.6	120
125	10.7	11.0	11.2	11.4	11.4	11.4	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.4	125
130	10.4	10.8	10.9	11.1	11.1	11.2	11.3	11.3	11.3	11.3	11.3	11.4	11.3	11.2	130
135	10.2	10.4	10.7	10.8	10.8	11.0	11.0	11.1	11.1	11.1	11.0	11.2	11.1	11.1	135
140	9.8	10.1	10.4	10.6	10.6	10.8	10.8	10.9	10.9	11.0	10.7	11.0	11.0	10.9	140
145	9.5	10.0	10.2	10.3	10.5	10.5	10.7	10.7	10.7	10.8	10.6	10.8	10.8	10.7	145
150	9.2	9.7	10.0	10.2	10.2	10.4	10.4	10.5	10.5	10.6	10.5	10.6	10.6	10.5	150
155	9.0	9.4	9.8	10.0	10.1	10.1	10.3	10.3	10.4	10.4	10.4	10.4	10.4	10.4	155
160		9.0	9.5	9.8	9.9	10.0	10.1	10.1	10.2	10.2	10.3	10.3	10.3	10.3	160
165		8.8	9.3	9.6	9.7	9.8	10.0	10.0	10.0	10.0	10.1	10.1	10.1	10.1	165
170		8.7	9.0	9.2	9.5	9.7	9.7	9.7	9.9	9.9	9.9	9.9	9.9	9.9	170
175			8.8	9.1	9.4	9.6	9.6	9.6	9.7	9.7	9.6	9.6	9.6	9.6	175
180				8.8	9.2	9.4	9.4	9.4	9.6	9.6	9.4	9.4	9.4	9.4	180
185					9.0	9.3	9.3	9.3	9.5	9.4	9.2	9.2	9.2	9.2	185
190					8.8	9.0	9.2	9.1	9.3	9.3	9.0	9.0	9.0	8.8	190
195					8.6	8.8	9.0	8.8	8.9	9.1	8.9	8.9	8.9	8.5	195
200							8.8	8.5	8.6	8.8	8.7	8.7	8.6	8.1	200
205							8.4	8.3	8.3	8.5	8.5	8.5	8.2	7.6	205
210									7.9	8.2	8.2	8.2	7.7	7.1	210
215									7.4	7.8	7.8	7.6	7.2	6.7	215
220									7.0	7.5	7.5	7.1	6.7	6.3	220
225									6.7	7.1	7.1	6.7	6.2	5.8	225
230										6.8	6.8	6.4	5.7	5.3	230
235										6.5	6.3	5.8	5.4	4.9	235
240												5.5	5.0		240
245												5.1	4.8		245
250												4.8			250
255												4.7			255
Parts of line	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Parts of line

FJ Load Chart**SCA1350A crawler crane – FJ configuration load chart 3/4**

Aux. hook, Boom 72~200ft, Rear counterweight 119klbs, Carbody counterweight 44klbs,
Jib 43ft, Boom to jib angle 30°, without main hook

Boom length Radius (ft)	72	82	92	102	112	121	131	141	151	161	171	180	190	200	Boom length Radius (ft)
40	51.6	50.8													40
45	50.3	49.4													45
50	48.8	48.1	47.8	47.5	47.2										50
55	47.0	46.3	46.1	46.0	45.7	45.5	45.3	45.1							55
60	44.9	44.3	44.0	44.0	43.7	43.5	43.3	43.1	42.9	42.6	42.4	42.2			60
65	43.4	42.7	42.5	42.3	41.9	41.7	41.5	41.2	41.0	40.8	40.6	40.4			65
70	41.9	41.2	40.7	40.3	40.0	39.7	39.5	39.2	39.0	38.8	38.6	38.4	38.1	37.3	70
75	40.5	39.8	39.1	38.7	38.4	38.0	37.8	37.6	37.4	37.2	36.8	36.6	36.3	35.7	75
80	39.2	38.5	37.8	37.4	36.9	36.7	36.4	36.2	36.0	35.8	35.3	35.1	34.6	34.1	80
85	38.0	37.1	36.5	36.0	35.6	35.4	34.9	34.7	34.5	34.3	33.8	33.6	32.7	31.9	85
90	36.8	35.9	35.3	34.8	34.5	34.3	33.9	33.7	33.4	33.2	32.5	31.6	30.7	29.8	90
95	35.5	34.7	34.0	33.7	33.4	33.1	32.7	32.4	32.2	31.7	30.8	29.8	28.9	28.0	95
100	34.0	33.0	32.6	32.4	32.1	31.8	31.3	31.0	30.8	29.9	29.1	28.2	27.3	26.4	100
105		30.9	31.3	30.9	30.6	30.4	30.0	29.5	29.3	28.2	27.6	26.7	25.8	24.9	105
110		29.3	29.3	29.0	28.6	28.6	28.1	27.7	27.5	26.9	26.0	25.2	24.4	23.6	110
115		27.8	27.6	27.3	27.0	26.8	26.4	26.0	25.7	25.3	24.8	24.1	23.1	22.3	115
120			26.1	25.7	25.4	25.3	24.8	24.3	24.1	23.7	23.5	23.0	22.0	21.2	120
125				24.2	23.9	23.9	23.3	22.8	22.6	22.2	22.0	21.5	21.3	20.0	125
130				22.8	22.6	22.6	21.9	21.7	21.3	20.8	20.6	20.3	19.9	19.3	130
135					21.4	21.4	20.7	20.4	20.1	19.6	19.4	19.0	18.7	18.3	135
140					20.2	20.2	19.6	19.2	19.0	18.5	18.2	17.8	17.6	17.2	140
145						19.0	18.6	18.2	17.9	17.5	17.1	16.8	16.4	16.2	145
150						18.0	17.6	17.2	16.9	16.5	16.2	15.8	15.4	15.2	150
155							16.6	16.3	15.9	15.6	15.3	15.0	14.5	14.2	155
160								15.4	15.0	14.8	14.3	14.0	13.7	13.2	160
165									14.2	13.9	13.5	13.1	12.8	12.4	165
170									13.5	13.1	12.7	12.4	12.0	11.6	170
175									12.7	12.3	12.0	11.6	11.2	10.7	175
180										11.5	11.2	10.9	10.4	10.0	180
185											10.4	10.2	9.7	9.3	185
190											9.7	9.5	9.1	8.6	190
195												8.8	8.4	8.1	195
200												8.3	7.8	7.5	200
205													7.3	6.9	205
210														6.4	210
215														5.9	215
Parts of line	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Parts of line

Unit:klb

FJ Load Chart

SCA1350A crawler crane – FJ configuration load chart 4/4

Aux. hook, Boom 72~200ft, Rear counterweight 119klbs, Carbody counterweight 44klbs,
Jib 102ft, Boom to jib angle 30°, without main hook

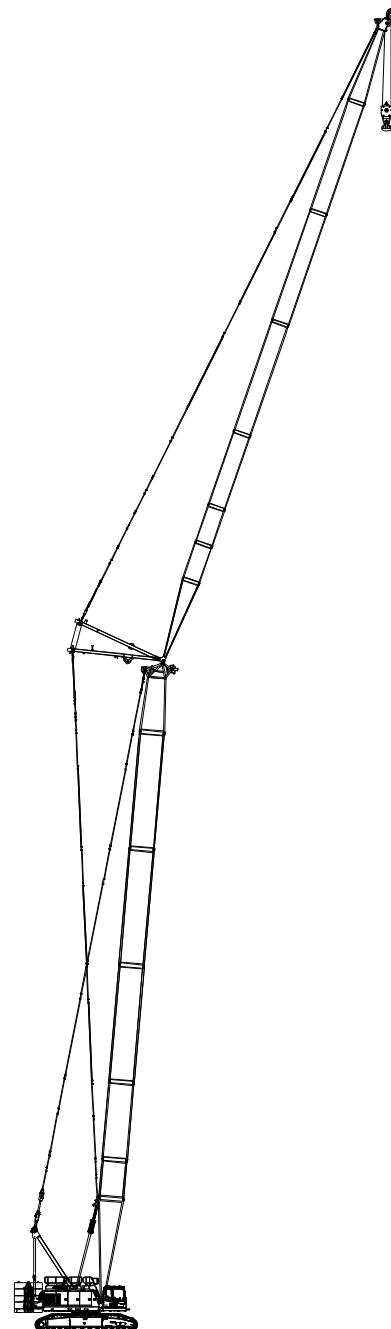
Boom length (ft) Radius (ft)	72	82	92	102	112	121	131	141	151	161	171	180	190	200	Boom length (ft) Radius (ft)
80	12.0	12.1													80
85	11.6	11.8													85
90	11.2	11.4	11.4	11.4	11.3										90
95	10.9	11.1	11.0	11.1	11.0	11.4	11.3	11.3							95
100	10.6	10.8	10.7	10.8	10.8	11.2	11.0	11.0	11.0	11.0	11.2	11.2			100
105	10.2	10.4	10.4	10.6	10.6	10.9	10.8	10.8	10.8	10.8	11.0	11.0	11.1	11.0	105
110	10.0	10.1	10.2	10.3	10.2	10.7	10.5	10.5	10.6	10.6	10.7	10.8	10.9	10.9	110
115	9.7	9.9	9.9	10.1	10.0	10.4	10.3	10.3	10.3	10.4	10.5	10.6	10.6	10.7	115
120	9.5	9.7	9.7	9.9	9.8	10.2	10.1	10.1	10.1	10.2	10.2	10.4	10.4	10.5	120
125	9.4	9.5	9.5	9.7	9.5	9.9	9.9	10.0	9.8	10.0	9.9	10.2	10.3	10.4	125
130	9.1	9.3	9.3	9.5	9.3	9.6	9.7	9.7	9.7	9.9	9.9	10.0	10.1	10.2	130
135	9.0	9.1	9.2	9.2	9.1	9.4	9.5	9.6	9.6	9.7	9.8	9.9	9.9	10.0	135
140	8.9	9.0	9.0	9.0	9.0	9.2	9.4	9.4	9.5	9.5	9.6	9.7	9.8	9.8	140
145	8.8	8.9	8.8	8.8	8.8	9.0	9.3	9.3	9.3	9.4	9.5	9.5	9.7	9.7	145
150	8.6	8.8	8.6	8.8	8.8	8.8	9.2	9.1	9.1	9.2	9.4	9.4	9.5	9.5	150
155	8.4	8.6	8.5	8.7	8.7	8.7	8.9	8.9	8.9	9.1	9.3	9.3	9.4	9.3	155
160	8.4	8.5	8.4	8.5	8.6	8.6	8.7	8.8	8.8	9.0	9.1	9.1	9.2	9.2	160
165		8.4	8.3	8.4	8.6	8.6	8.6	8.7	8.7	8.9	9.0	9.0	9.0	9.0	165
170		8.2	8.2	8.3	8.4	8.4	8.4	8.7	8.6	8.7	8.9	8.9	8.8	8.8	170
175		8.0	8.0	8.2	8.3	8.2	8.2	8.6	8.5	8.6	8.7	8.8	8.7	8.7	175
180			7.8	8.1	8.2	8.2	8.2	8.5	8.3	8.5	8.5	8.7	8.5	8.5	180
185				7.9	8.1	8.1	8.1	8.3	8.3	8.4	8.3	8.5	8.3	8.3	185
190				7.7	7.9	7.9	7.9	8.2	8.3	8.3	8.2	8.3	8.2	8.2	190
195					7.8	7.8	7.8	8.0	8.1	8.0	8.0	8.0	8.0	8.0	195
200						7.6	7.6	7.8	8.0	7.8	7.8	7.8	7.8	7.7	200
205						7.4	7.4	7.5	7.9	7.7	7.7	7.7	7.7	7.4	205
210							7.3	7.3	7.7	7.5	7.5	7.5	7.5	7.1	210
215							7.1	7.1	7.5	7.3	7.3	7.3	7.3	6.9	215
220								6.9	7.4	7.2	7.2	7.0	7.2	6.7	220
225									7.2	7.0	7.0	6.7	6.9	6.5	225
230									7.0	6.8	6.8	6.4	6.6	6.1	230
235									6.9	6.7	6.5	6.0	6.3	5.8	235
240										6.5	6.1	5.7	5.8	5.5	240
245											5.8	5.4	5.3	5.1	245
Parts of line	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Parts of line

LJ Configuration

72.2ft(22m)	
82.0ft(25m)	
91.9ft(28m)	
★91.9ft(28m)	
101.7ft(31m)	
111.5ft(34m)	
★111.5ft(34m)	
121.4ft(37m)	
★121.4ft(37m)	
131.2ft(40m)	
141.1ft(43m)	
★141.1ft(43m)	
150.9ft(46m)	
★150.9ft(46m)	
160.8ft(49m)	
170.6ft(52m)	

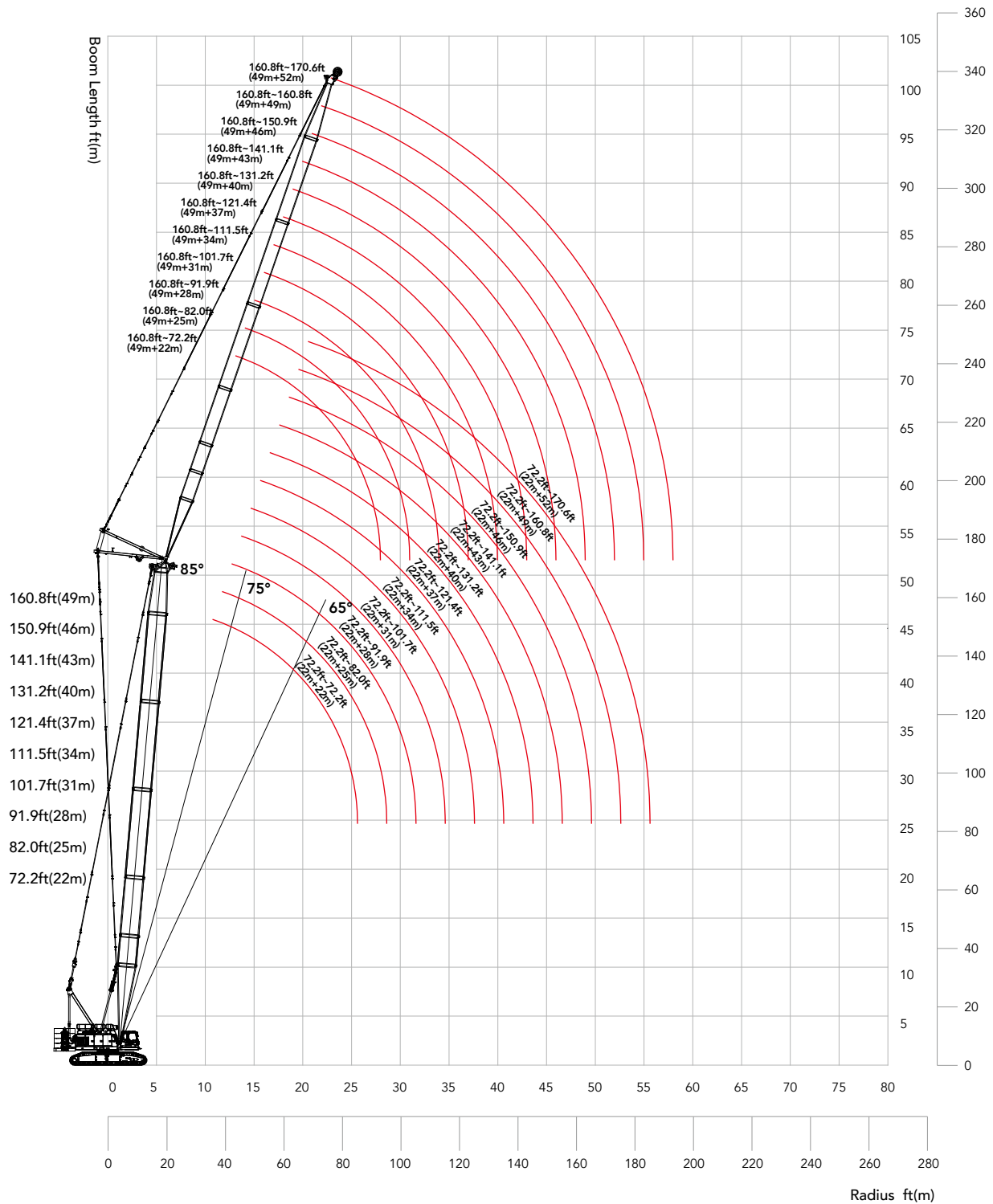
Note: The boom combinations with " ★ " are recommended for purchasing.

	Luffing jib base
	9.8 ft(3m) luffing jib insert
	19.7ft(6m) luffing jib insert
	29.5ft(9m) luffing jib insert
	Luffing jib top



LJ Configuration:
160.8ft+170.6ft (49m+52m)

LJ Working Radius



LJ Load Chart

Note:

- 1.The rated load in the load chart is calculated complying with EN 13000;
- 2.The working radius is the horizontal distance from the load center to the swing center;
- 3.The actual lifting capacity must subtract the weight of hooks and other riggings from the rated capacity in the load chart.
- 4.The load value is calculated when the object is hung freely,without considering the influence of wind on the load, ground conditions and slope, operation speed and the influence of any other negative factors over safe operation. Therefore, the operator bears the responsibility of making a judgement and decreasing the load and lowering speed.
5. All ratings are calculated when the machine is parking on firm and level ground with less than 1% gradient.
6. See the Operation Manual for the complete load charts of LJ and LJ configurations.

SCA1350A crawler crane – LJ configuration load chart 1/12

On luffing jib hook, Boom 72ft, Boom angle 85°, Rear counterweight 119klbs, Carbody counterweight 44klbs, with extension jib hook												
Boom length (ft) Radius (ft)	72	82	92	102	112	121	131	141	151	161	171	Boom length (ft) Radius (ft)
34	87.2											34
36	85.6											36
38	84.0											38
40	82.2	74.0	65.5	58.5								40
45	77.0	69.6	62.1	55.5								45
50	70.0	65.6	58.9	52.7	47.4	39.9						50
55	62.1	60.7	55.6	50.0	46.1	39.0	33.0	27.9	23.9			55
60	54.2	54.6	52.0	47.4	44.3	38.2	32.3	27.2	23.2	19.9	16.9	60
65	48.1	48.4	48.5	44.8	41.8	37.6	31.4	26.5	22.6	19.3	16.4	65
70	43.3	43.5	43.8	42.3	39.4	36.2	30.7	25.9	22.0	18.7	15.9	70
75	37.5	39.3	39.5	39.1	37.0	34.4	30.0	25.3	21.4	18.2	15.4	75
80		35.3	35.8	35.6	34.8	32.3	29.2	24.8	20.8	17.7	14.9	80
85		31.3	32.8	32.6	32.7	30.3	27.9	24.3	20.3	17.2	14.6	85
90			30.1	30.0	30.1	28.6	26.4	23.6	19.8	16.7	14.1	90
95			26.0	27.7	27.7	26.8	24.8	22.5	19.3	16.2	13.6	95
100				25.3	25.6	25.1	23.3	21.2	18.7	15.7	13.1	100
105					23.8	23.8	21.8	20.1	18.1	15.2	12.8	105
110					22.0	22.1	20.5	18.7	17.1	14.9	12.5	110
115					19.0	20.6	19.2	17.6	15.9	14.2	12.0	115
120						18.7	18.0	16.5	14.9	13.3	11.5	120
125							16.7	15.4	14.0	12.5	11.0	125
130							15.7	14.4	13.0	11.7	10.1	130
135							13.9	13.3	12.2	10.8	9.4	135
140								12.4	11.3	10.0	8.7	140
145									10.5	9.2	8.1	145
150									9.6	8.5	7.4	150
155									8.9	7.8	6.7	155
160										7.2	6.1	160
165											5.6	165
170											4.9	170
Parts of line	4	3	3	3	2	2	2	1	1	1	1	Parts of line

Unit:klb

LJ Load Chart

SCA1350A crawler crane – LJ configuration load chart 2/12

On luffing jib hook, Boom 102 ft, Boom angle 85°, Rear counterweight 119klbs, Carbody counterweight 44klbs, with extension jib hook												
Boom length (ft) Radius (ft)	72	82	92	102	112	121	131	141	151	161	171	Boom length (ft) Radius (ft)
40	80.7	73.0	63.2									40
45	72.3	69.3	61.2									45
50	64.6	63.6	58.7	51.7	44.0							50
55	58.1	57.8	55.7	50.0	43.3	36.7	31.2	26.6				55
60	52.7	52.5	52.2	47.7	42.6	36.1	30.6	26.1	22.4	19.1		60
65	48.4	48.2	47.5	45.7	41.8	35.6	30.0	25.6	21.9	18.6		65
70	44.6	44.4	43.9	43.2	39.8	34.9	29.4	25.0	21.4	18.1	15.4	70
75	41.3	41.1	40.6	40.4	37.7	34.0	28.8	24.4	20.9	17.7	15.0	75
80		38.1	37.7	37.4	35.6	32.9	28.3	23.9	20.4	17.3	14.6	80
85		35.4	35.2	34.6	33.2	31.2	27.8	23.4	19.9	16.8	14.1	85
90		31.0	32.4	31.9	30.9	29.3	27.0	22.9	19.4	16.3	13.8	90
95			29.4	29.2	28.6	27.5	25.7	22.5	18.9	15.9	13.4	95
100				26.6	26.4	25.7	24.3	21.9	18.4	15.5	12.9	100
105				24.2	24.2	24.0	22.9	20.7	18.1	15.0	12.6	105
110				22.2	22.4	22.3	21.6	19.7	17.6	14.7	12.2	110
115					20.7	20.8	20.2	18.5	16.7	14.3	11.9	115
120						19.2	18.9	17.3	15.7	13.9	11.6	120
125						17.5	17.6	16.2	14.7	13.2	11.2	125
130						16.2	16.4	15.2	13.9	12.3	10.7	130
135							15.2	14.2	13.0	11.5	9.9	135
140								13.3	12.2	10.7	9.2	140
145									11.4	10.1	8.5	145
150									10.5	9.4	7.8	150
155									9.7	8.6	7.3	155
160										7.8	6.7	160
165											6.1	165
170											5.6	170
175											4.9	175
Parts of line	4	3	3	2	2	2	2	2	1	1	1	Parts of line

LJ Load Chart**SCA1350A crawler crane – LJ configuration load chart 3/12**

On luffing jib hook, Boom 131 ft, Boom angle 85°, Rear counterweight 119klbs, Carbody counterweight 44klbs, with extension jib hook

Boom length (ft) Radius (ft)	72	82	92	102	112	121	131	141	151	161	171	Boom length (ft) Radius (ft)
40	69.9	62.5										40
45	64.5	60.0										45
50	58.4	56.4	51.8	46.0								50
55	52.6	52.0	49.4	44.7	39.0	33.5	28.9					55
60	47.6	47.3	46.7	42.8	38.4	33.0	28.3	24.4	21.1			60
65	43.9	43.3	43.0	40.4	37.2	32.5	27.8	23.9	20.6			65
70	40.6	40.0	39.6	38.2	35.4	32.1	27.5	23.5	20.2	17.2	14.7	70
75	37.5	37.1	36.6	35.9	33.6	31.1	27.1	23.1	19.8	16.8	14.4	75
80	34.7	34.4	34.0	33.6	31.7	29.6	26.6	22.6	19.3	16.5	14.0	80
85	32.3	31.9	31.7	31.4	29.9	28.1	26.0	22.3	19.0	16.1	13.7	85
90		29.8	29.5	29.1	28.0	26.6	24.7	21.8	18.5	15.8	13.4	90
95			27.3	26.8	26.2	25.1	23.5	21.4	18.1	15.3	13.0	95
100			25.0	24.8	24.3	23.6	22.3	20.8	17.8	14.9	12.7	100
105				22.9	22.5	22.0	21.2	19.8	17.4	14.6	12.3	105
110				20.9	21.0	20.5	19.8	18.8	17.1	14.2	12.0	110
115					19.5	19.1	18.6	17.8	16.6	13.9	11.7	115
120					17.9	17.8	17.4	16.9	16.0	13.6	11.3	120
125						16.7	16.2	16.0	15.2	13.4	11.0	125
130						15.3	15.2	15.0	14.3	12.7	10.7	130
135							14.2	14.1	13.5	11.9	10.2	135
140								13.2	12.6	11.1	9.6	140
145								12.2	11.8	10.3	8.9	145
150								11.4	11.1	9.6	8.3	150
155									10.2	8.9	7.6	155
160										8.3	7.0	160
165										7.6	6.5	165
170										7.1	6.0	170
175											5.4	175
Parts of line	3	3	3	2	2	2	2	1	1	1	1	Parts of line

Unit:klb

LJ Load Chart

SCA1350A crawler crane – LJ configuration load chart 4/12

On luffing jib hook, Boom 161 ft, Boom angle 85°, Rear counterweight 119klbs, Carbody counterweight 44klbs, with extension jib hook												
Boom length (ft) Radius (ft)	72	82	92	102	112	121	131	141	151	161	171	Boom length (ft) Radius (ft)
50	51.5	47.4	43.4									50
55	47.9	45.0	41.6	37.9	33.7	29.4						55
60	43.6	42.5	39.7	36.5	33.1	29.0	25.3	22.0				60
65	40.1	39.8	37.5	35.0	32.1	28.7	25.0	21.6				65
70	37.2	36.8	35.5	33.1	30.8	28.1	24.6	21.3	18.4	16.0	13.8	70
75	34.4	34.0	33.4	31.1	29.3	27.2	24.2	21.0	18.1	15.7	13.5	75
80	31.9	31.5	31.2	29.3	27.8	26.1	23.6	20.6	17.8	15.3	13.1	80
85	29.9	29.4	29.0	27.4	26.3	24.8	23.0	20.3	17.4	15.0	12.8	85
90		27.4	27.0	25.9	24.8	23.6	22.0	20.0	17.1	14.7	12.5	90
95		25.4	25.0	24.2	23.3	22.3	21.0	19.4	16.8	14.3	12.1	95
100			23.1	22.4	21.8	21.0	20.0	18.7	16.5	14.0	11.9	100
105				20.9	20.5	19.8	19.0	17.9	16.3	13.7	11.7	105
110				19.4	19.2	18.7	17.9	17.0	15.8	13.5	11.3	110
115					17.8	17.5	16.9	16.2	15.2	13.2	11.0	115
120					16.5	16.4	15.9	15.3	14.5	12.9	10.7	120
125						15.4	14.9	14.5	13.8	12.6	10.6	125
130						14.4	14.1	13.7	13.2	12.4	10.2	130
135							13.1	12.8	12.5	11.8	10.0	135
140							12.3	12.0	11.8	11.2	9.7	140
145								11.4	11.2	10.7	9.2	145
150								10.7	10.5	10.0	8.7	150
155									9.8	9.4	8.0	155
160									9.2	8.7	7.4	160
165										8.0	6.7	165
170										7.4	6.2	170
175											5.7	175
180											5.2	180
Parts of line	3	2	2	2	2	2	1	1	1	1	1	Parts of line

LJ Load Chart**SCA1350A crawler crane – LJ configuration load chart 5/12**

On luffing jib hook, Boom72ft, Boom angle 75°, Rear counterweight 119klbs, Carbody counterweight 44klbs, with extension jib hook												
Boom length (ft) Radius (ft)	72	82	92	102	112	121	131	141	151	161	171	Boom length (ft) Radius (ft)
60	67.0											60
65	60.9											65
70	56.1	55.9	54.8									70
75	51.8	51.5	51.5	47.2								75
80	48.0	47.6	47.9	45.3	40.7	33.9						80
85	44.5	44.3	44.5	42.9	39.5	33.5						85
90	39.2	41.2	41.5	40.7	37.4	33.0	27.5	23.1				90
95		37.5	38.4	38.2	35.4	32.2	27.1	22.7	19.1			95
100			35.3	35.4	33.5	31.0	26.7	22.3	18.6	15.8	13.1	100
105			31.9	32.4	31.5	29.3	26.2	21.8	18.3	15.4	12.8	105
110			28.1	29.7	29.8	27.6	25.2	21.5	18.0	14.9	12.5	110
115				27.0	27.9	26.1	23.9	21.0	17.6	14.5	12.1	115
120					25.8	24.5	22.4	20.3	17.3	14.3	11.8	120
125					23.6	22.8	21.1	19.1	16.9	14.1	11.5	125
130					20.8	21.3	19.7	18.1	16.3	13.8	11.3	130
135						19.9	18.5	17.0	15.3	13.4	11.0	135
140							17.3	15.9	14.4	12.9	10.7	140
145							16.2	14.9	13.6	12.0	10.3	145
150							15.0	13.8	12.7	11.2	9.6	150
155								12.8	11.7	10.3	8.9	155
160									10.9	9.6	8.3	160
165										8.9	7.6	165
170										8.0	6.9	170
175										7.5	6.4	175
180											5.8	180
Parts of line	3	3	3	2	2	2	2	1	1	1	1	Parts of line

Unit:klb

LJ Load Chart

SCA1350A crawler crane – LJ configuration load chart 6/12

On luffing jib hook, Boom 102 ft, Boom angle 75°, Rear counterweight 119klbs, Carbody counterweight 44klbs, with extension jib hook												
Boom length (ft) Radius (ft)	72	82	92	102	112	121	131	141	151	161	171	Boom length (ft) Radius (ft)
70	47.6											70
75	44.0	43.2	43.1									75
80	40.7	39.9	39.7	39.8								80
85	37.7	37.2	37.0	37.0								85
90	35.3	34.8	34.6	34.6	34.0	31.7						90
95	33.0	32.8	32.5	32.4	31.8	31.0	26.2					95
100		30.9	30.6	30.3	29.9	29.8	25.9	21.7	18.4			100
105		28.9	28.9	28.4	28.2	28.0	25.6	21.4	18.1	15.2	12.8	105
110		27.5	27.2	26.9	26.7	26.5	25.2	21.0	17.7	14.9	12.5	110
115			25.7	25.5	25.2	25.0	24.6	20.8	17.4	14.5	12.1	115
120				24.2	23.9	23.6	23.5	20.6	17.1	14.2	11.8	120
125					22.8	22.4	22.2	20.3	16.7	13.9	11.7	125
130					21.5	21.2	20.8	19.9	16.4	13.7	11.3	130
135					20.5	20.2	19.9	19.0	16.2	13.4	11.0	135
140						19.2	19.0	17.8	15.8	13.2	10.7	140
145							18.0	16.6	15.1	12.9	10.5	145
150							17.3	15.6	14.3	12.4	10.2	150
155							16.2	14.7	13.4	11.8	10.0	155
160								13.8	12.6	11.1	9.6	160
165									11.7	10.4	8.9	165
170									10.9	9.6	8.2	170
175									10.1	8.9	7.6	175
180										8.2	6.9	180
185											6.3	185
190											5.8	190
195											5.3	195
Parts of line	2	2	2	2	2	2	1	1	1	1	1	Parts of line

LJ Load Chart**SCA1350A crawler crane – LJ configuration load chart 7/12**

On luffing jib hook, Boom 131 ft, Boom angle 75°, Rear counterweight 119klbs, Carbody counterweight 44klbs, with extension jib hook

Boom length (ft) Radius (ft)	72	82	92	102	112	121	131	141	151	161	171	Boom length (ft) Radius (ft)
75	38.2											75
80	35.3	35.3										80
85	33.0	32.6										85
90	31.0	30.5	30.3	29.9								90
95	29.0	28.7	28.5	27.9	27.7	27.3						95
100	27.3	27.0	26.8	26.3	26.0	25.5	24.4					100
105		25.3	25.1	24.9	24.5	24.0	23.6	20.5	17.4			105
110		23.8	23.8	23.4	23.0	22.7	22.2	20.3	17.1			110
115		22.6	22.4	22.1	21.7	21.5	21.0	20.1	16.9	14.2		115
120			21.2	20.9	20.6	20.3	19.9	19.5	16.6	14.0	11.6	120
125				19.8	19.6	19.1	18.9	18.5	16.3	13.7	11.5	125
130				18.8	18.5	18.3	18.1	17.6	16.1	13.5	11.3	130
135				17.9	17.7	17.3	17.1	16.8	16.0	13.2	11.0	135
140					16.8	16.5	16.2	15.9	15.6	12.9	10.7	140
145						15.8	15.3	15.1	14.9	12.8	10.5	145
150						15.1	14.7	14.3	14.0	12.6	10.2	150
155							14.1	13.7	13.3	12.3	10.0	155
160							13.5	13.1	12.7	12.0	9.8	160
165								12.5	12.1	11.5	9.6	165
170								12.0	11.7	10.7	9.1	170
175									11.1	10.0	8.6	175
180									10.5	9.3	8.0	180
185										8.6	7.3	185
190										8.0	6.6	190
195											6.1	195
200											5.6	200
Parts of line	2	2	2	2	2	2	1	1	1	1	1	Parts of line

Unit:klb

LJ Load Chart

SCA1350A crawler crane – LJ configuration load chart 8/12

On luffing jib hook, Boom 161 ft, Boom angle 75°, Rear counterweight 119klbs, Carbody counterweight 44klbs, with extension jib hook												
Boom length (ft) Radius (ft)	72	82	92	102	112	121	131	141	151	161	171	Boom length (ft) Radius (ft)
80	31.3											80
85	28.8											85
90	27.1	26.9										90
95	25.4	25.1	24.7	24.3								95
100	23.8	23.4	23.3	22.7	22.4							100
105	22.5	22.0	21.8	21.4	20.9	20.7	20.3					105
110	21.3	20.7	20.5	20.2	19.8	19.4	18.9					110
115		19.7	19.4	19.1	18.7	18.3	17.8	17.6				115
120		18.7	18.4	18.1	17.7	17.3	16.8	16.5	15.5	13.2		120
125			17.4	16.9	16.7	16.5	15.8	15.4	15.2	13.0	11.0	125
130			16.7	16.3	15.9	15.5	15.0	14.7	14.5	12.8	10.8	130
135				15.5	15.0	14.7	14.4	14.0	13.7	12.7	10.5	135
140				14.6	14.3	14.0	13.7	13.3	12.9	12.3	10.3	140
145					13.6	13.4	12.9	12.5	12.3	11.8	10.1	145
150					12.9	12.7	12.2	11.8	11.6	11.1	10.0	150
155						12.2	11.7	11.3	11.1	10.6	9.8	155
160						11.6	11.1	10.8	10.5	10.1	9.5	160
165							10.5	10.3	10.0	9.6	9.2	165
170							10.2	9.8	9.5	9.3	8.7	170
175								9.4	9.0	8.8	8.5	175
180								9.0	8.6	8.3	8.1	180
185									8.3	7.8	7.6	185
190									8.0	7.5	7.1	190
195										7.2	6.7	195
200											6.4	200
205											6.0	205
Parts of line	2	2	1	1	1	1	1	1	1	1	1	Parts of line

LJ Load Chart**SCA1350A crawler crane – LJ configuration load chart 9/12**

On luffing jib hook, Boom72ft, Boom angle 65°, Rear counterweight 119klbs, Carbody counterweight 44klbs, with extension jib hook												
Boom length (ft) Radius (ft)	72	82	92	102	112	121	131	141	151	161	171	Boom length (ft) Radius (ft)
80	48.5											80
85	45.0											85
90	42.1	41.7										90
95	39.4	39.0	38.8									95
100	37.0	36.6	36.4	36.1								100
105		34.6	34.4	33.9	33.7							105
110		32.6	32.4	32.1	31.9							110
115			30.7	30.4	30.1	28.8						115
120			29.2	28.7	28.5	28.1	23.5	19.6				120
125				27.3	27.0	26.8	23.4	19.4	16.1			125
130				26.1	25.9	25.6	23.4	19.2	15.7			130
135					24.7	24.5	22.5	18.9	15.5	12.9		135
140					23.2	23.2	21.2	18.5	15.4	12.7	10.4	140
145						21.9	19.9	17.9	15.2	12.5	10.1	145
150						20.5	18.7	16.9	15.0	12.2	10.0	150
155							17.6	15.9	14.4	12.0	9.8	155
160								14.9	13.6	11.6		160
165								13.9	12.6			165
170								13.1	11.8			170
Parts of line	2	2	2	2	2	2	1	1	1	1	1	Parts of line

Unit:klb

LJ Load Chart

SCA1350A crawler crane – LJ configuration load chart 10/12

On luffing jib hook, Boom 102ft, Boom angle 65°, Rear counterweight 119klbs, Carbody counterweight 44klbs, with extension jib hook												
Boom length (ft) Radius (ft)	72	82	92	102	112	121	131	141	151	161	171	Boom length (ft) Radius (ft)
95	33.2											95
100	31.2	31.0										100
105	29.5	29.3	28.9									105
110	27.9	27.5	27.2									110
115	26.3	26.0	25.7	25.3								115
120		24.7	24.4	24.0	23.6							120
125			23.1	22.9	22.4	22.4						125
130			21.9	21.9	21.4	21.0						130
135			20.8	20.7	20.4	20.1	19.7	18.4				135
140				19.7	19.5	19.2	18.7	18.1	15.1			140
145					18.6	18.4	17.8	17.5	15.0	12.3		145
150					17.6	17.6	17.1	16.7	14.8	12.2		150
155						16.7	16.3	16.0	14.6	12.0	9.8	155
160						16.0	15.5	15.3	14.5	11.8	9.6	160
165							14.9	14.6	14.2	11.7	9.4	165
170							14.2	14.0	13.7	11.5	9.3	170
175								13.3	13.1	11.3	9.1	175
180								12.7	12.4	11.0	8.9	180
185									11.7	10.4	8.7	185
190									11.1	9.7	8.2	190
195										9.1		195
Parts of line	2	2	2	1	1	1	1	1	1	1	1	Parts of line

LJ Load Chart**SCA1350A crawler crane – LJ configuration load chart 11/12**

On luffing jib hook, Boom 131ft, Boom angle 65°, Rear counterweight 119klbs, Carbody counterweight 44klbs, with extension jib hook												
Boom length (ft) Radius (ft)	72	82	92	102	112	121	131	141	151	161	171	Boom length (ft) Radius (ft)
105	25.1											105
110	23.6											110
115	22.2	22.1										115
120	21.0	20.9	20.6									120
125	20.0	19.6	19.5	18.9								125
130	19.0	18.7	18.4	17.9								130
135		17.8	17.4	17.1	16.8							135
140			16.6	16.4	15.9	15.6	15.1					140
145				15.6	15.1	14.9	14.5	14.0				145
150				14.9	14.5	14.0	13.8	13.3				150
155				14.2	13.8	13.5	13.1	12.7	12.5			155
160					13.2	13.0	12.4	12.1	11.8	11.4		160
165						12.4	11.8	11.6	11.1	10.9	9.4	165
170						11.8	11.3	11.1	10.6	10.2	9.3	170
175						11.1	10.8	10.4	10.1	9.7	9.1	175
180							10.4	9.9	9.6	9.3	8.8	180
185								9.6	9.2	9.0		185
190								9.3	8.8	8.6		190
195								8.8	8.5			195
Parts of line	1	1	1	1	1	1	1	1	1	1	1	Parts of line

Unit:klb

LJ Load Chart

SCA1350A crawler crane – LJ configuration load chart 12/12

On luffing jib hook, Boom 161ft, Boom angle 65°, Rear counterweight 119klbs, Carbody counterweight 44klbs, with extension jib hook										
Boom length (ft) Radius (ft)	72	82	92	102	112	121	131	141	151	Boom length (ft) Radius (ft)
120	17.4									120
125	16.7	16.2								125
130	15.7	15.2								130
135	14.9	14.5	14.3							135
140		13.8	13.6	12.9						140
145		13.1	12.9	12.3	12.0	11.6				145
150		12.5	12.2	12.0	11.4	10.9				150
155			11.7	11.4	11.0	10.4	9.9			155
160				10.8	10.5	9.9	9.4	9.0		160
165				10.3	9.9	9.4	8.9	8.5	8.3	165
170				10.0	9.5	9.1	8.4	8.2	7.8	170
175					8.9	8.4	8.1	7.7	7.4	175
180						8.0	7.7	7.3		180
185						7.6	7.4			185
190						7.3	7.1			190
Parts of line	1	1	1	1	1	1	1	1	1	Parts of line



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Reminder:

Any change in the technical parameters and configuration due to product modification or upgrade may occur without prior notice.
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