SCC550A

Crawler Crane
55 Tons Lifting Capacity

Quality Changes the World

Max. lifting moment: 203.5t·m
Max. boom length: 52m
Max. fixed jib combination: 43m+15.25m

Crawler Crane Series
SCC550A

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SCC550A
SANY CRAWLER CRANE
55 TONS LIFTING CAPACITY

QUALITY CHANGES THE WORLD

Main Characteristics

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Product Specification

Engine

- Model: DCEC (Cummins China) QSB5.9-C210 Diesel engine;
- Type: 4-stroke, water-cooled, vertical in-line 6 cylinders, direct injection, turbo-charger, intercooler, complied with European Off-way Tier III Emission Standard and Chinese Off-way Tier III Emission Standard;
- Displacement: 5.9L;
- Rated power: 154kW/2200rpm;
- Operation power: 147kW/1800rpm;
- Max. Torque: 820N·m/1500rpm ;
- Starter: 24V-6kW;
- 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: 400L.

Electrical Control System

- Self-developed SYIC-II 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, wind speed, engine working hours, lifting conditions and boom angle.

Hydraulic System

- Main pumps: open variable displacement piston pumps of large displacement are adopted to provide oil supply for main actuators of main machine;
- Gear pump: dual gear pump for swing, 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 two cross hydraulic handle, one dual travel pedal control valve to control various actuators proportionally;
- Way of cooling: heat exchanger, fan core and multi-stage cooling;
- Filter: large flow, high precision filter, with bypass valve and transmitter, which can remind the user to replace the filter element in time;
- Max. pressure of system: 32 Mpa;
- Main/aux. load hoist and travel system: 32Mpa;
- Swing system: 20 MPa;
- Control system: 5 MPa;
- Hydraulic Tank Capacity:460L.

Main and Aux. Load 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;
- Free fall for main/aux. load hoist is offered as optional.

Main Load Hoist Mechanism	Drum diameter	520mm
	Hoist winch rope speed	0 ~130m/min
	Wire rope diameter	ϕ22mm
	Wire rope length of main load hoist	180m
	Rated single line pull	7t
Auxiliary Load Hoist Mechanism	Drum diameter	520mm
	Hoist winch rope speed	0 ~130m/min
	Wire rope diameter	ϕ22mm
	Wire rope length of aux. load hoist	130m
	Rated single line pull	7t

Product Specification

Boom Hoist Mechanism

- Boom 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 boom;
- Drums with fold-line grooves can ensure the wire rope reeved in order in multilayers.

Boom hoist mechanism	Drum diameter	290mm
	Working layer rope speed	0 ~ 80m/min
	Wire rope diameter	ϕ16mm
	wire rope length of boom hoist	142m

Swing Mechanism

- Swing brake adopts wet, spring loaded, normally-closed brake, and braking through spring force;
- Swing system, equipped with integrated swing buffer valve, has free slipping function. It is featured in steady starting and control, and excellent inching function. Unique swing buffer design and steadier brake;
- Swing drive: internal engaged swing drive with 360° swing range, and the max. swing speed is 1.9r/min. The max. drive pressure can reach 20MPa;
- Swing lock: mechanical lock can ensure the upperworks locked securely after work or during transport;
- Swing ring: single row ball bearing.

Cab and Control

- Novel operator's cab with fashionable profile and nice interior. There are low and high-beam lights, back-view mirror, heater and A/C, radio and other functions. The layout of seat, handles, control buttons are designed with ergonomic principles to make operation more comfortable;
- Cab layout: Integrated 8.4-inch touch screen and man-machine interaction interface are more perfect;
- Armrest box: on the left and right armrest box are control handles, electrical switches, emergent stop and ignition switch. The armrest box can be adjusted along with the seat;
- Seat: multi-way and multi-level floating adjustable seat with unload switch;
- A/C: cool and heat air; optimized air channels and vents;
- Multiple cameras can present on the monitor at the same time to realize real-time monitoring of backing, wire rope on each winch, conditions behind the counterweight and surrounding the machine.

Counterweight

- Counterweight trays and blocks are piled up for easier assembly and transport;
- Total rear counterweight: approximately 16t;
- Rear counterweight: counterweight tray 6.59t × 1, left counterweight block (1) 2.35t × 1, right counterweight block (1) 2.27t × 1, left counterweight block (2) 2.43t × 1, right counterweight block (2) 2.43t × 1.

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 Extension and Retraction

- The crawlers can extend and retract via cylinders. During Work Mode, the crawlers must be extended, and be retracted during transport with crawlers on.

Crawler Tensioning

- 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 can prolong the service life;
- They are 760mm wide, and the total amount is 59pcs x 2.

Operating Equipment

- All chords of boom of operating equipment 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. Pendant cables with quick hitch connector that are easy to assemble are offered as options.

Boom

- Lattice structure. The chord adopts high-strength structural tube and each section is connected through pins;
- Basic boom: 6.5m boom top + 6.5m boom base;
- Boom insert: 3m x 1,6m x 3,9m X 2;
- Boom length: 13m~52m.

Fixed Jib

- Lattice structure. The chord adopts high-strength structural tube and each section is connected through pins;
- Basic boom: 3.05m boom top + 3.05m boom base;
- Boom insert: 3.05m x 3;
- Jib length: 6.1m~15.25m;
- Longest boom + jib: 43m boom + 15.25m jib.

Extension Jib

- The extension jib is a welded structure connected to the boom by pins, used for auxiliary hook;
- Extension jib length: 1.0m.

Hook Block

- 60t hook block, five sheaves;
- 45t hook block, three sheaves;
- 15t hook, one sheave;
- 9t ball hook.

Safety Device

Assembly Mode/Work Mode Switch

- In Assembly Mode, certain safety devices are disabled to facilitate crane assembly;
- In Work Mode, all safety limiting devices activate to protect the operation.

Emergent Stop

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

Load Moment Indicator (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 LMU 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, force sensor and other parts.

Over-hoist Protection of the Main/Auxiliary Load Hoist

- Over-hoist protection device comprises limit switch and weight on boom top, which prevents the hook lifting up too much. When the hook is lifted 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.

Over-release Protection Device of the Main/Auxiliary Load Hoist

- 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 proximity switch acts, and the system sends alarm through buzzer and show the alarm on the monitor, automatically cutting off the winch action.

Function Lock

- 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

- Boom luffing lock switch is designed to lock the boom luffing winch when it doesn't work, so as to prevent mis-operation. Boom hoist winch pawl can automatically respond when the control handle moves; and the pawl locks the drum when the handle returns to neutral position, so that the boom can stay safely when not working.

Swing Lock

- Swing Lock can lock the machine.

Boom Limit Device

- When the boom elevation angle reaches the upper limit, the buzzer sounds and boom action is cut off. This protection is two-stage control ensured by both LMI 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 lifting hook is installed with a baffle plate to prevent wire rope from falling off.

Hook Latch

- The lifting hook is installed with a baffle plate to prevent wire rope from falling off.

Safety Device

Tri-color Load Indicator

- The load indicator 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. At this moment, the system will automatically cut off the crane's dangerous operation.

Alarm Light

- When the machine is powered on, the alarm light will work when time comes, so as to warn people around.

Swing Indicator Light

- The swing indicator light flashes during traveling or swing.

Illuminating Light

- The machine is equipped with short-beam light in front of machine, front angle adjustable far-beam light, lamps in operator's cab, lighting devices for night operation, so as to increase the visibility during work.

Rearview Mirror

- It is installed on the left of the operator's cab and at the front handrail of the sheet metal for monitoring the rear part of the 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 Gauge

- It displays the tipping angle of crane on the monitor in real time and sends out alarm to the operator automatically when the angle is out of limit.

Seat Interlock

- If the operator leaves the seat, all control handles will be locked immediately 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 and voltage.

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, and remote diagnosis of failures.

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Technical Parameters

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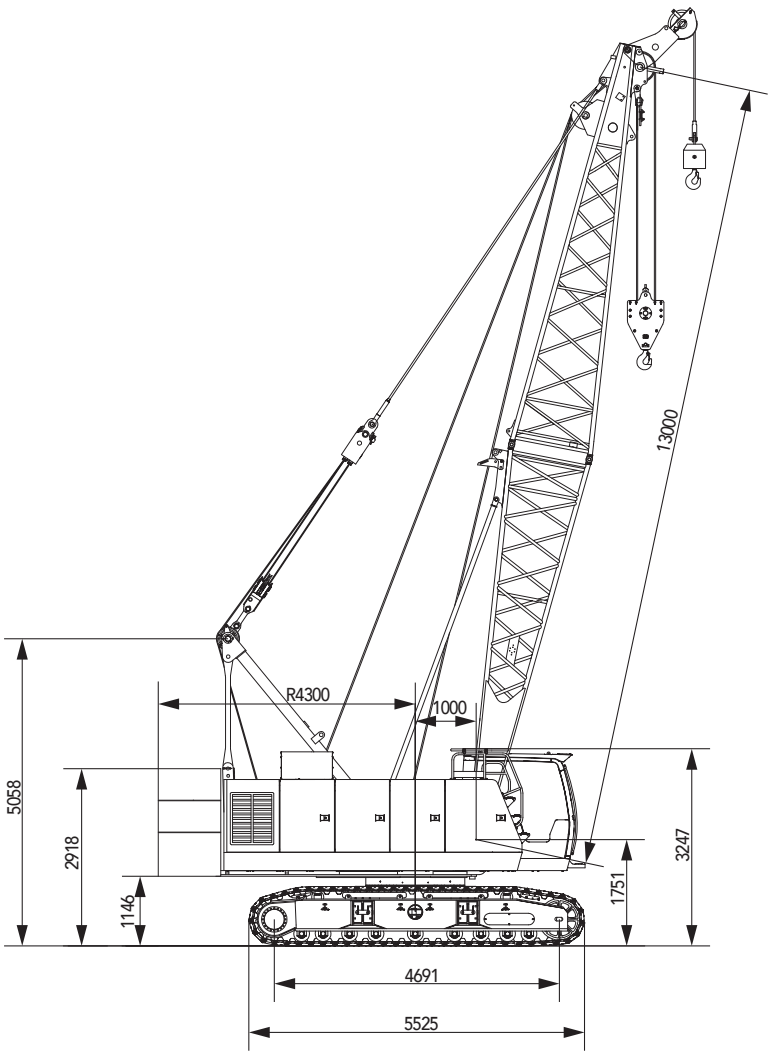
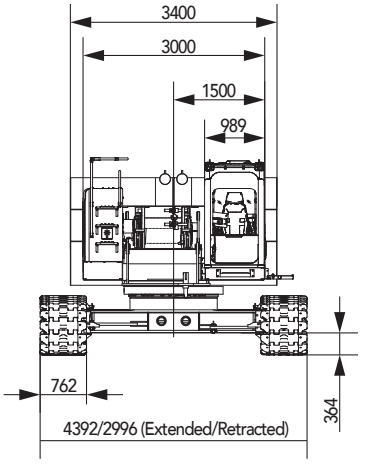
Major Performance & Specifications

Major Performance & Specifications of SCC550A			
Performance Indicators		Unit	Parameter
Boom Configuration	Max. rated lifting capacity	t	55
	Largest lifting moment	t·m	203.5
	Boom length	m	13-52
Fixed Jib	Max. rated lifting capacity	t	7
	Jib length	m	6.1-15.25
	Longest boom + jib	m	43 + 15.25
Speed	Rope speed of main/aux. winch	m/min	0-130
	Rope speed of boom hoist winch	m/min	0~80
	Swing speed	rpm	0-1.9
	Travel speed	km/h	0~1.3
Wire rope	Main load hoist wire rope: diameter x length	Φ mm x m	22x180
	Aux. load hoist wire rope: diameter x length	Φ mm x m	22x130
	Rated single line pull of main/aux. hoist wire rope	t	7
Engine	Model/Displacement	\L	QSB5.9-C210\5.9
	Rated power/revolution speed	kW/ rpm	154/2200
Transport Parameters	Weight of machine with basic boom	t	50
	Rear counterweight	t	16
	Transport weight of basic machine (with crawlers and boom base)	t	32.3
	Machine transport dimension (with crawlers and boom base) L x W x H	mm	12200x3000x3300
Other specifications	Average ground pressure (basic boom)	MPa	0.065
	Gradeability	%	40

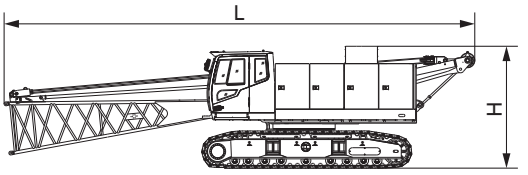
Unit: mm

Outline Dimension

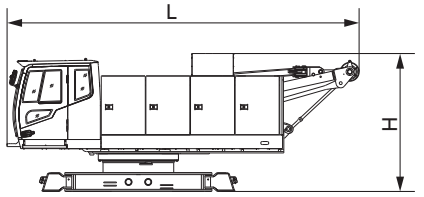




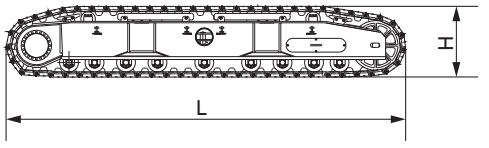
Transport Dimension



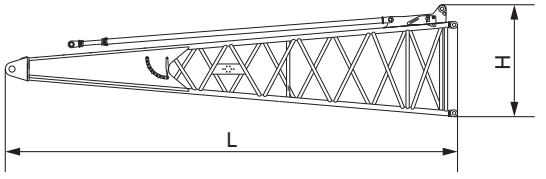
Basic Machine 1 (with boom base and crawler frames)	×1
Length(L)	12.2m
Width(W)	3.0m
Height(H)	3.3m
Weight	32.3t



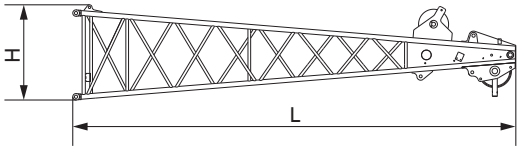
Basic machine 2	X1
Length (L)	7.2m
Width (w)	3.00m
Height (H)	2.8m
Weight	18.8t



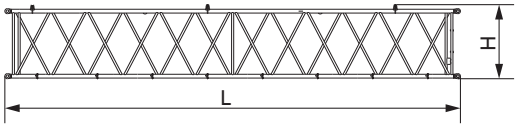
Crawler frame	x2
Length (L)	5.5m
Width (w)	0.9m
Height (H)	0.98m
Weight	6.1t



Boom base	×1
Length(L)	6.65m
Width(W)	1.39m
Height(H)	1.65m
Weight	1.35t

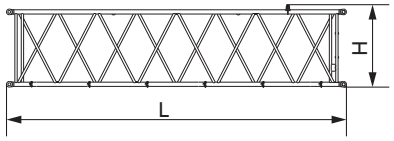


Boom top	x1
Length (L)	6.88m
Width (w)	1.39m
Height (H)	1.48m
Weight	0.9t

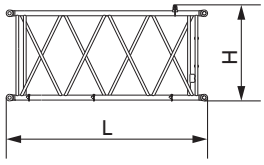


9m boom	x2
Length (L)	9.1m
Width (w)	1.39m
Height (H)	1.48m
Weight	0.85t

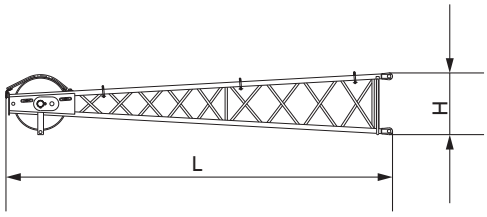
Transport Dimension



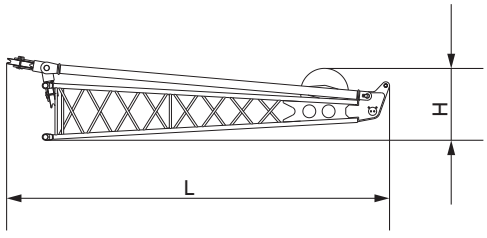
6m boom	x3
Length (L)	6.1 m
Width (w)	1.39m
Height (H)	1.48m
Weight	0.55t



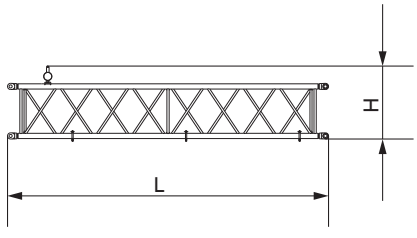
3m boom	x1
Length (L)	3.1 m
Width (W)	1.39m
Height (H)	1.48m
Weight	0.33t



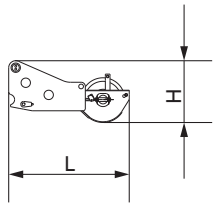
Fixed jib top	x1
Length (L)	3.38m
Width (W)	0.7 m
Height (H)	0.55m
Weight	0.15t



Fixed jib base and strut	X1
Length (L)	3.57 m
Width (w)	0.61 m
Height (H)	0.78m
Weight	0.25t

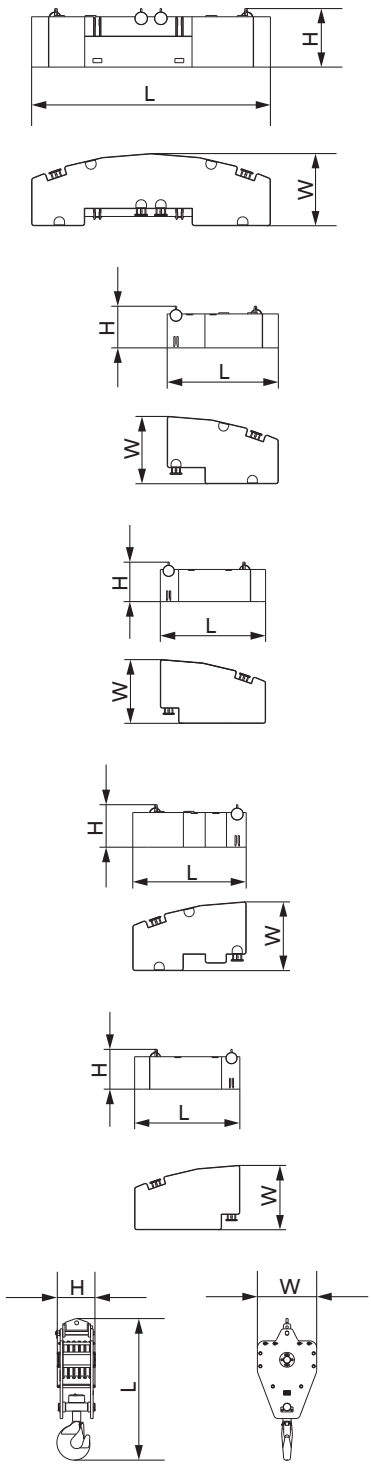


3.05m fixed jib	x3
Length (L)	3.11m
Width (w)	0.62m
Height (H)	0.7 m
Weight	0.1t



Boom extension jib	x1
Length (L)	1.35m
Width (w)	0.7 m
Height (H)	0.66m
Weight	0.18t

Transport Dimension



Counterweight tray	X1
Length (L)	3.4m
Width (w)	1.03m
Height (H)	0.84m
Weight	6.59t

Left counterweight block 1	x1
Length (L)	1.69m
Width (w)	1.03m
Height (H)	0.64m
Weight	2.35t

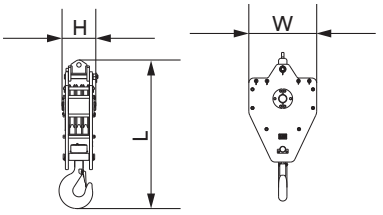
Left counterweight block 2	x1
Length (L)	1.69m
Width (w)	1.03m
Height (H)	0.64m
Weight	2.43t

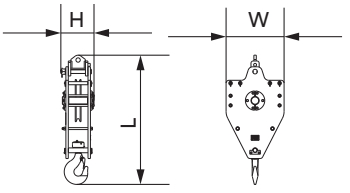
Right counterweight block 1	x1
Length(L)	1.69m
Width(W)	1.03m
Height(H)	0.64m
Weight	2.27t

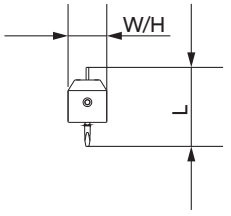
Right counterweight block 2	x1
Length (L)	1.69m
Width (w)	1.03m
Height (H)	0.64m
Weight	2.43t

60T hook	X1
Length (L)	1.65m
Width (w)	0.69m
Height (H)	0.39m
Weight	0.65t

Transport Dimension







45T hook	x1
Length(L)	1.52 m
Width(W)	0.69m
Height(H)	0.37 m
Weight	0.48t

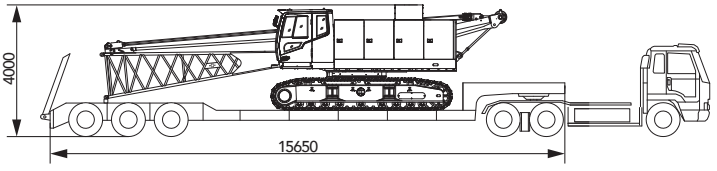
15T hook	x1
Length (L)	1.34 m
Width (W)	0.6m
Height (H)	0.34m
Weight	0.28t

9T ball hook	x1
Length (L)	0.75m
Width (W)	0.37 m
Height (H)	0.37 m
Weight	0.255t

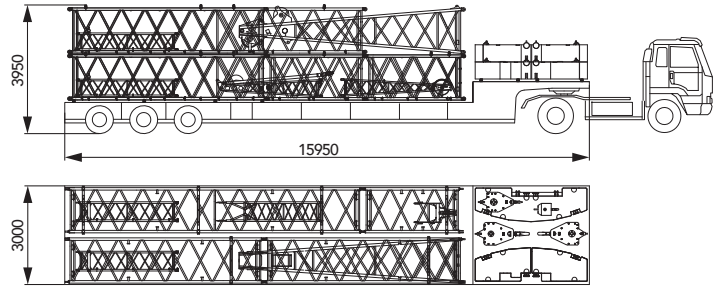
Note:
1.The transport dimensions of each part in the table are schematic, not proportional to the real parts. The dimensions are designed value without package considered.
2.The Weight is designed value that the actual manufactured part may deviate a little.

Transport Plan

Trailer 1	
Part(s)	▪ Basic Machine
Weight	▪ 32.3t



Trailer 2	
Part(s)	▪ 9m boom × 2 ▪ 6m boom × 3 ▪ 3m boom × 1 ▪ Boom top × 1 ▪ Boom extension jib × 1 ▪ 3.05m fixed jib × 3 ▪ Fixed jib base and strut × 1 ▪ Fixed jib top ▪ Counterweight tray × 1 ▪ Left counterweight block 1 × 1 ▪ Right counterweight block 1 × 1 ▪ Left counterweight block 2 × 1 ▪ Right counterweight block 2 × 1 ▪ 60t hook × 1 ▪ 45t hook × 1 ▪ 15t hook × 1 ▪ 9t hook × 1
Weight	▪ 23.2t



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Boom Combination

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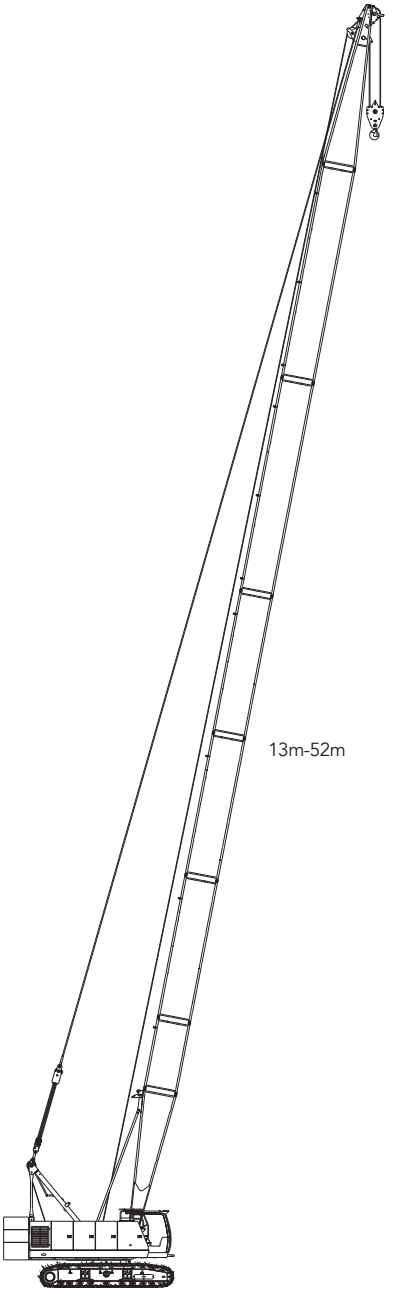
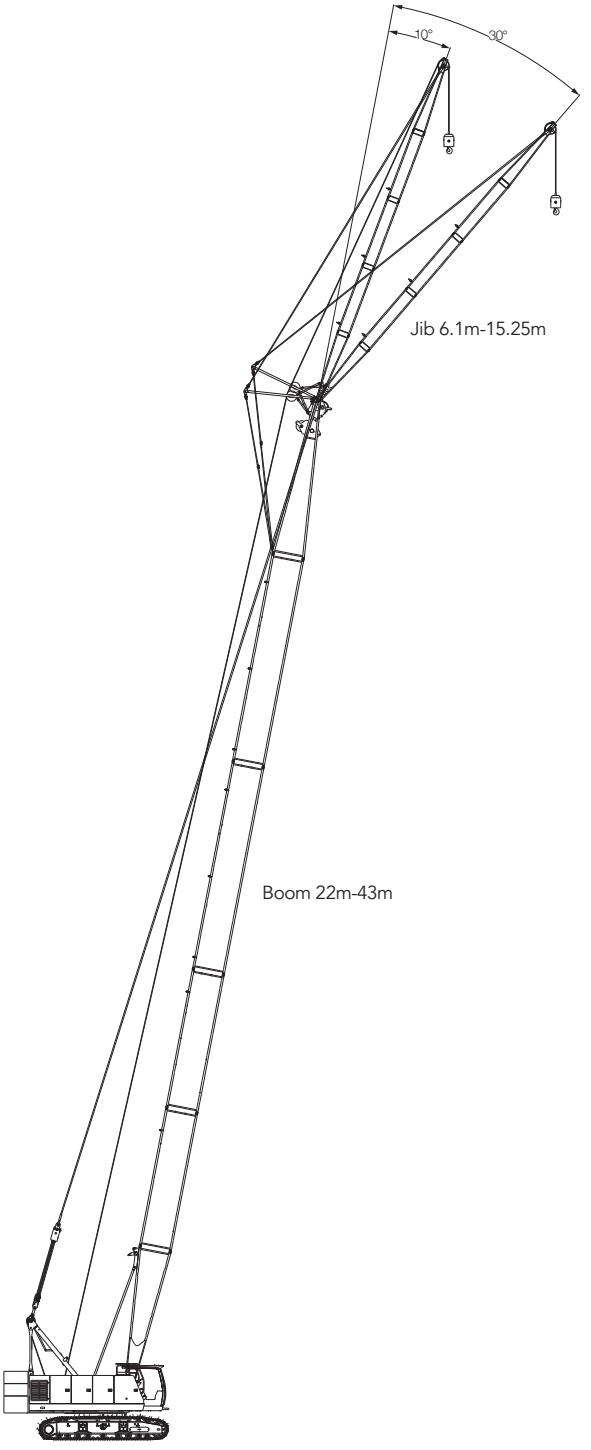
Boom Combination

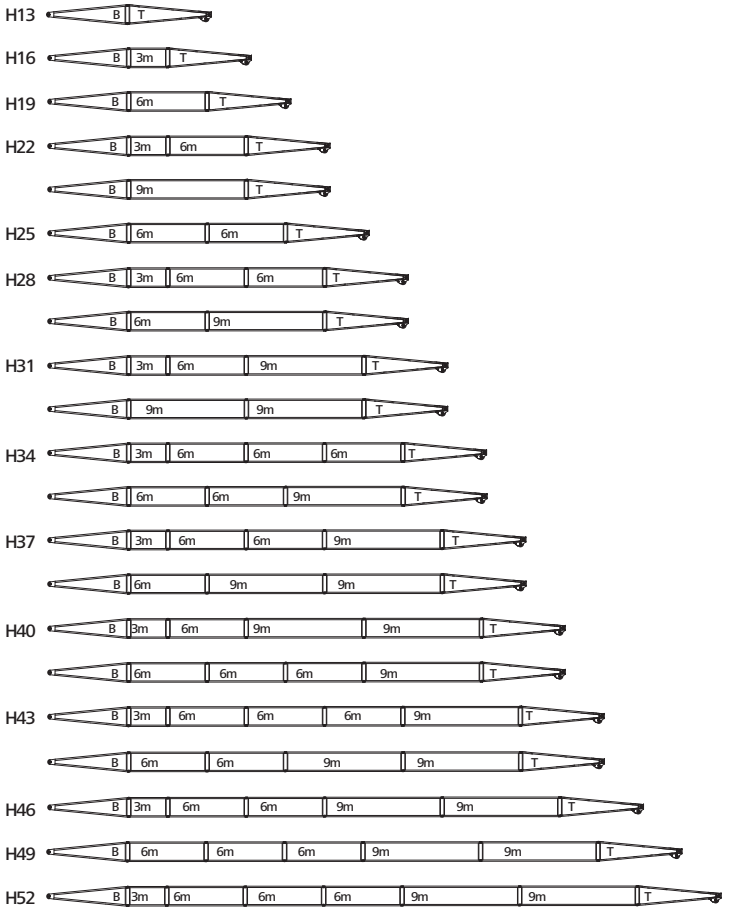


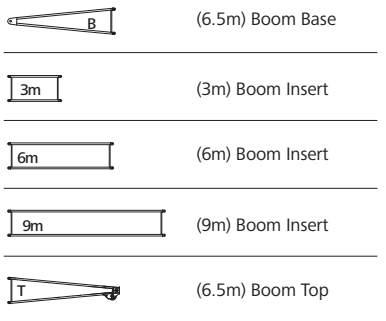
H Configuration

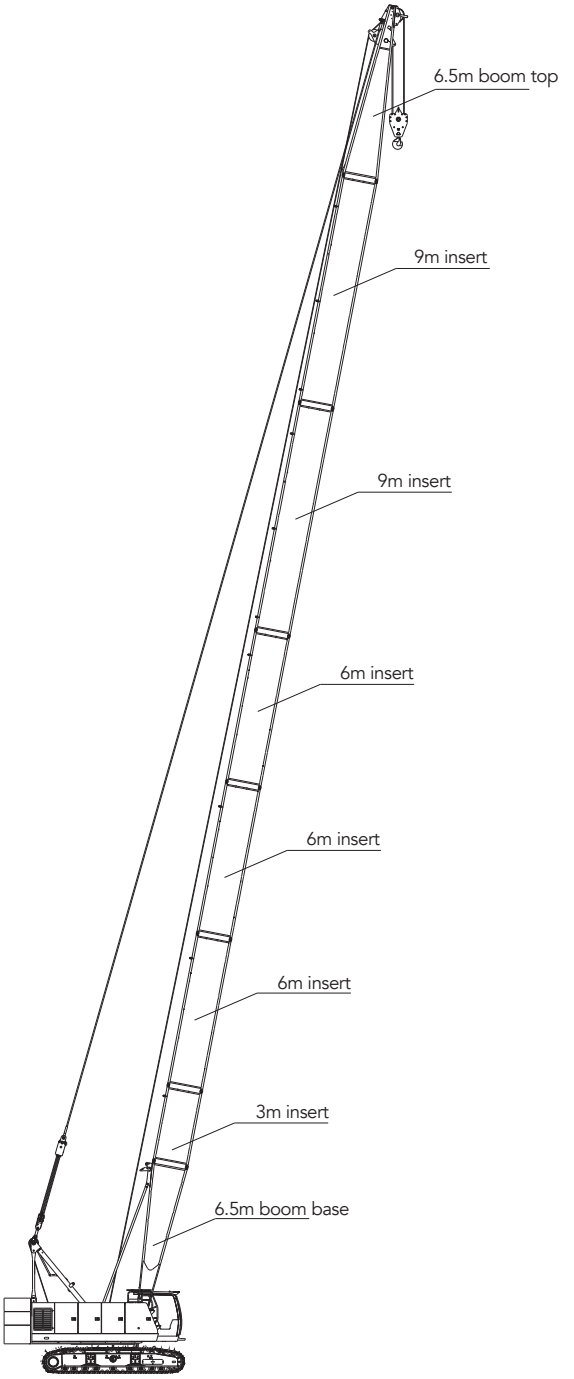


FJ Configuration

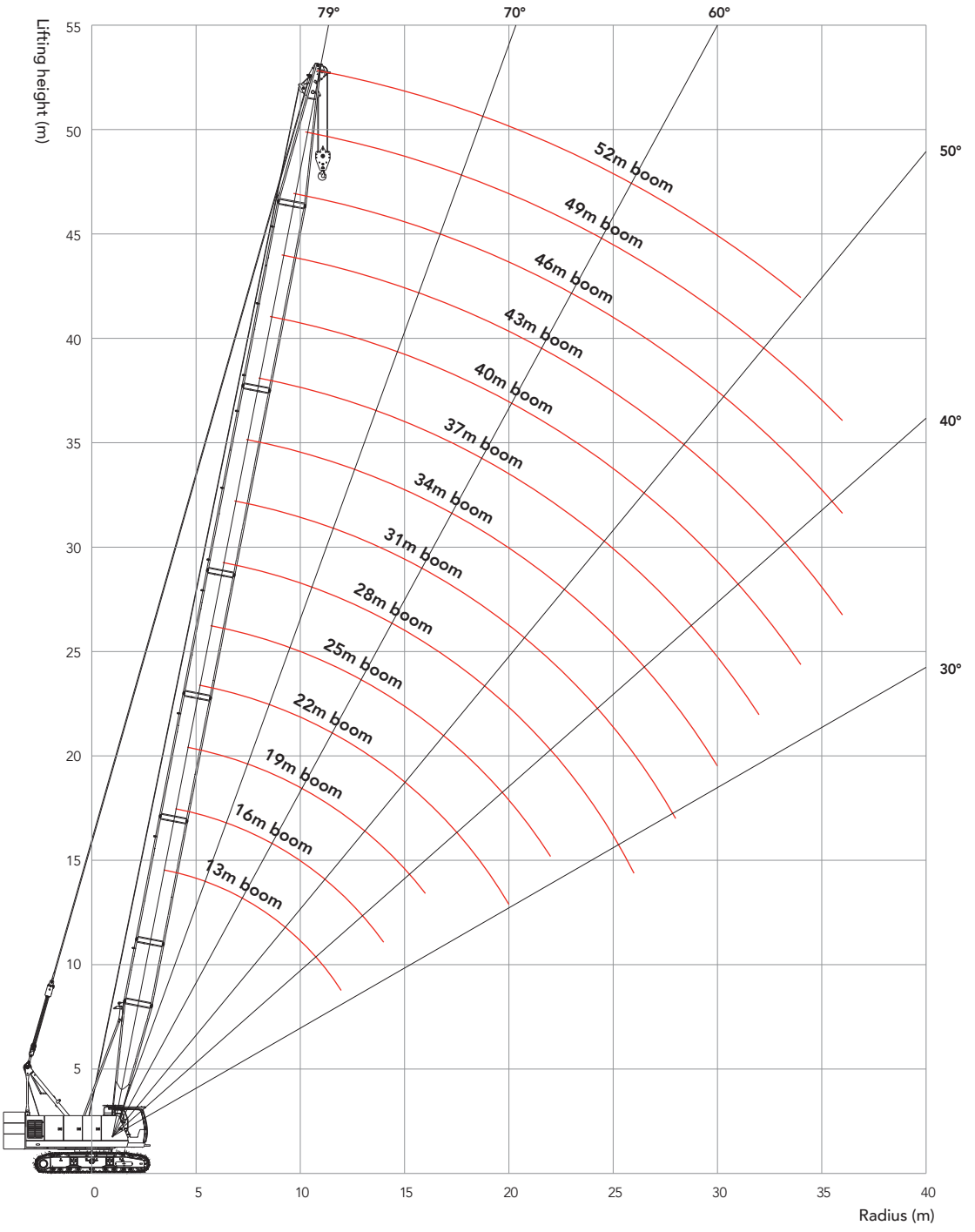
H Configuration







Working Radius in H Configuration



Unit: t

Load Chart of H Configuration

SCC550A Crawler Crane –H Configuration

Rear counterweight 16t

R/BL (m)	13	16	19	22	25	28	31	34	37	40	43	46	49	52	R/BL (m)
3.7	55														3.7
4	50.2	48.2													4
4.5	42.5	41.8	40.2												4.5
5	37.5	36	35	33.2											5
5.5	32.5	31.9	31	30.2	28.2										5.5
6	28.5	28.3	27.5	27.2	26.2	25.2									6
7	22.9	22.7	22.5	22.2	21.7	21.2	20.5								7
8	19.2	19	18.7	18.5	18.5	18	17.5	17.1	16.7						8
9	16.1	15.7	15.7	15.6	15.5	15.4	14.8	14.2	14	13.2	12.8				9
10	14.2	14	13.9	13.9	13.7	13.7	13.5	13.2	12.8	12.5	12.1	11.7	11.3		10
12	11.3	11.2	11.1	11	10.9	10.8	10.8	10.5	10.3	10	9.6	9.3	9.2	9.2	12
14		9.3	9.2	9.1	9	8.8	8.8	8.6	8.5	8.2	8	7.7	7.4	7.4	14
16			7.8	7.7	7.6	7.5	7.4	7.2	7.1	6.9	6.9	6.6	6.4	6.2	16
18				6.6	6.5	6.5	6.4	6.2	6.1	5.9	5.8	5.5	5.3	5.1	18
20				5.6	5.6	5.5	5.5	5.3	5.2	4.9	4.9	4.7	4.4	4.3	20
22					4.8	4.8	4.6	4.5	4.3	4.2	4.1	3.9	3.7	3.6	22
24						4.2	4	3.9	3.7	3.6	3.5	3.3	3.2	3	24
26						3.6	3.6	3.4	3.3	3.2	3	2.9	2.7	2.5	26
28							3	3	2.9	2.7	2.5	2.4	2.3	2.1	28
30								2.6	2.5	2.3	2.1	2	1.9	1.7	30
32									2.1	2	1.8	1.7	1.6	1.4	32
34										1.7	1.5	1.4	1.3	1.2	34
36											1.1	1	0.9		36

Notes: Rated capacity of crawler crane

① . The rated capacity in the load charts is calculated when the crane is parking on firm and level ground and lifting the load slowly and steadily.

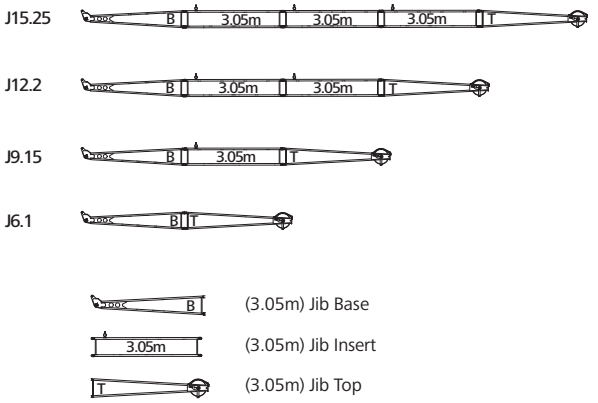
② . The rated capacity values in the load charts are only valid when wind speed is lower than 9.8m/s.

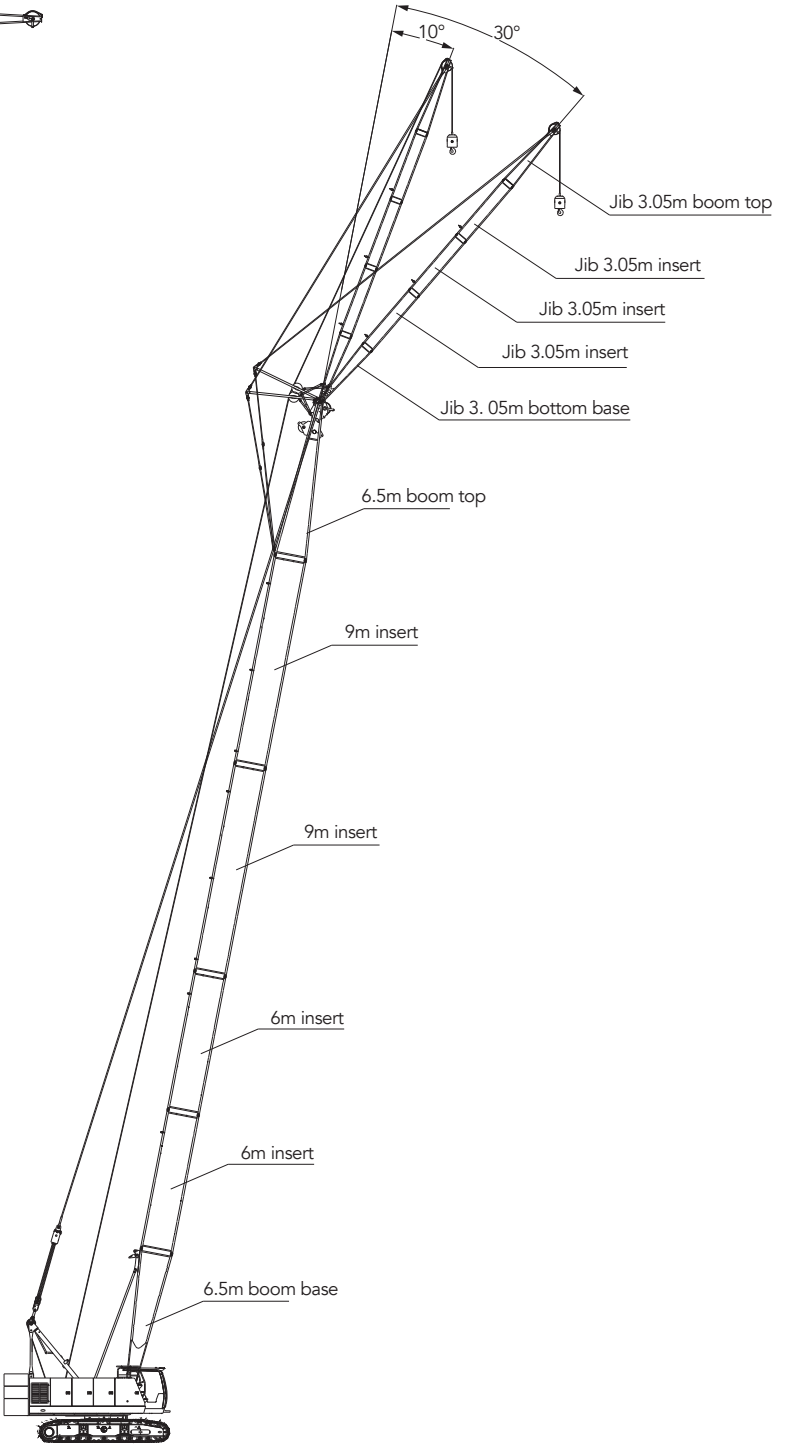
③ . The rated capacity in the load charts includes the weight of lifting hook, etc.; therefore, the actual rated capacity is the value after deducting the weight of lifting tools (such as lifting hook), from the rated load in the load charts.

④ . The crawlers must be extended during lifting.

⑤ . The values in the load charts are valid for 360° swing.

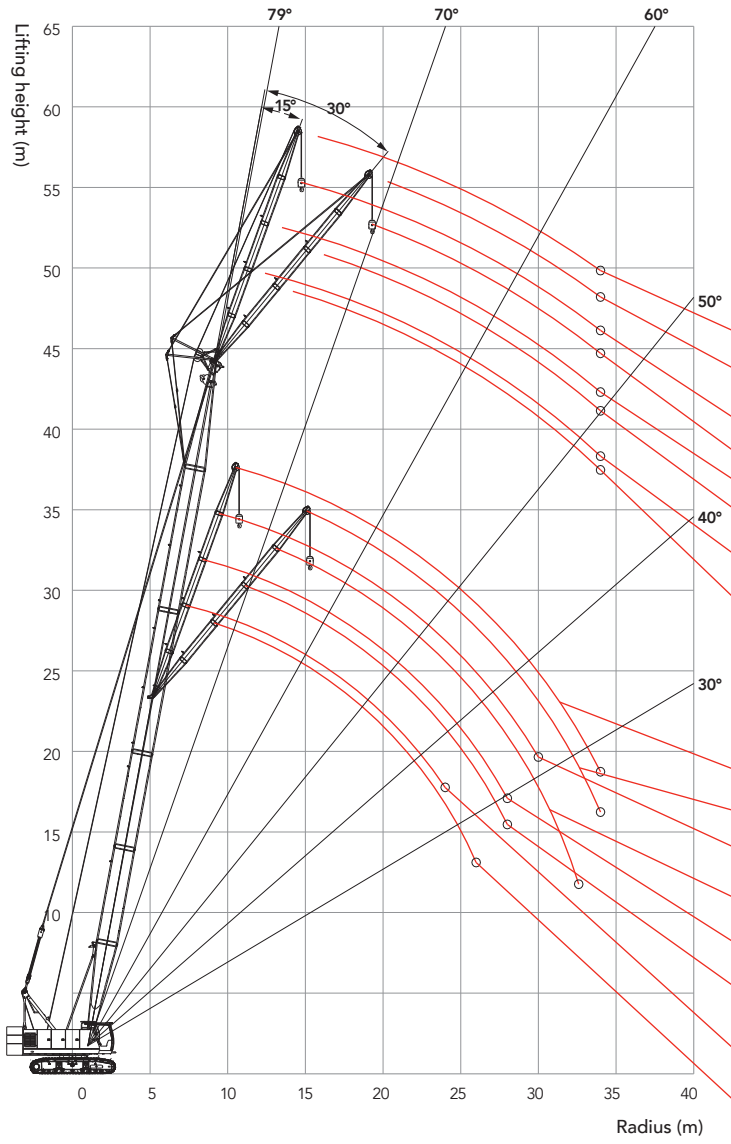
FJ Configuration





Longest boom + jib: 43m + 15.25m

Working Radius in FJ Configuration



(Boom) 43m + (jib) 15.25m, (included angle) 10°

(Boom) 43m + (jib) 15.25m, (included angle) 30°

(Boom) 43m + (jib) 12.2m, (included angle) 10°

(Boom) 43m + (jib) 12.2m, (included angle) 30°

(Boom) 43m + (jib) 9.15m, (included angle) 10°

(Boom) 43m + (jib) 9.15m, (included angle) 30°

(Boom) 43m + (jib) 6.1m, (included angle) 10°

(Boom) 43m + (jib) 6.1m, (included angle) 30°

(Boom) 22m + (jib) 15.25m, (included angle) 10°

(Boom) 22m + (jib) 15.25m, (included angle) 30°

(Boom) 22m + (jib) 12.2m, (included angle) 10°

(Boom) 22m + (jib) 12.2m, (included angle) 30°

(Boom) 22m + (jib) 9.15m, (included angle) 10°

(Boom) 22m + (jib) 9.15m, (included angle) 30°

(Boom) 22m + (jib) 6.1m, (included angle) 10°

(Boom) 22m + (jib) 6.1m, (included angle) 30°

Unit: t

Load Chart of FJ Configuration

SCC550A Crawler Crane – FJ Load Chart 1/8									
Boom 22m Fixed jib 6.1m-15.25m Rear counterweight 16t									
Jib Length (m) / Jib angle / R(m)	6.1		9.15		12.2		15.25		Jib Length (m) / Jib angle / R(m)
	10°	30°	10°	30°	10°	30°	10°	30°	
8	7.00	9.8m × 6.5	9.2m × 7						8
10	7.00	6.30	7.00		10.3m × 4.5		11.4m × 4.5		10
12	7.00	6.00	7.00	4.80	4.50		4.40		12
14	7.00	5.50	7.00	4.65	4.50	4.00	4.40		14
16	7.00	5.00	6.50	4.45	4.50	3.50	4.00	3.50	16
18	6.00	5.00	5.80	4.25	4.15	3.50	4.00	3.25	18
20	4.90	5.00	5.00	4.05	3.95	3.50	3.85	3.05	20
22	4.30	4.35	4.35	3.85	3.85	3.50	3.60	2.90	22
24	3.90	4.00	4.00	3.50	3.65	3.25	3.35	2.85	24
26		3.85	3.85	3.45	3.55	3.20	3.25	2.75	26
28			3.05	3.05	3.05	3.05	3.05	2.70	28
30					2.75	2.75	2.75	2.65	30
32						2.50	2.50	2.20	32
34						32.6m × 2.5	2.30	2.15	34
Counterweight(t)	16	16	16	16	16	16	16	16	Counterweight(t)

Note: The shaded area is determined by the boom strength.

Unit: t

Load Chart of FJ Configuration

SCC550A Crawler Crane – FJ Load Chart 2/8

Boom 25m Fixed jib 6.1m-15.25m Rear counterweight 16t

Jib Length (m) / Jib angle / R(m)	6.10		9.15		12.20		15.25		Jib Length (m) / Jib angle / R(m)
	10°	30°	10°	30°	10°	30°	10°	30°	
8	8.6m × 7								8
10	7.00	10.4m × 6	7.00		10.9m × 4.5				10
12	7.00	6.00	7.00	12.5m × 4.8	4.50		12.1m × 4.5		12
14	7.00	5.50	7.00	4.65	4.50	14.5m × 4.0	4.40		14
16	7.00	5.50	6.50	4.45	4.35	3.50	4.25	16.6m × 3.5	16
18	6.00	5.00	5.50	4.25	4.15	3.50	4.00	3.25	18
20	4.90	5.00	5.00	4.05	3.95	3.50	3.85	3.05	20
22	4.30	4.35	4.35	3.85	3.85	3.50	3.60	2.90	22
24	3.90	4.00	4.00	3.50	3.65	3.25	3.35	2.85	24
26	3.80	3.85	3.85	3.45	3.55	3.20	3.25	2.75	26
28	3.00	3.05	3.05	3.05	3.05	3.05	3.05	2.70	28
30			2.65	2.75	2.75	2.75	2.75	2.65	30
32				2.40	2.40	2.40	2.40	2.20	32
34						2.25	2.20	2.15	34

Note: The shaded area is determined by the boom strength.

Unit: t

Load Chart of FJ Configuration

SCC550A Crawler Crane – FJ Load Chart 3/8									
Boom 28m Fixed jib 6.1m-15.25m Rear counterweight 16t									
Jib Length (m)	6.1		9.15		12.2		15.25		Jib Length (m)
Jib angle / R(m)	10°	30°	10°	30°	10°	30°	10°	30°	Jib angle / R(m)
8	9.3m × 7								8
10	7.00	11.1m × 6	10.4m × 7		11.6m × 4.5				10
12	7.00	6.00	7.00	13.1m × 5.0	4.50		12.7m × 4.0		12
14	7.00	5.50	7.00	4.80	4.50	15.1m × 3.8	3.50		14
16	7.00	5.50	6.50	4.55	4.30	3.80	3.50	17.2m × 3.2	16
18	6.00	5.00	5.50	4.05	4.05	3.70	3.50	3.20	18
20	5.00	5.00	5.00	3.85	3.95	3.55	3.45	3.05	20
22	4.50	4.50	4.50	3.70	3.85	3.45	3.25	2.95	22
24	4.00	4.00	4.00	3.50	3.65	3.25	3.35	2.85	24
26	3.80	3.85	3.85	3.45	3.55	3.20	3.25	2.75	26
28	3.00	3.05	3.05	3.05	3.05	3.05	3.05	2.70	28
30	2.60	2.65	2.65	2.75	2.75	2.75	2.75	2.65	30
32	31.3m × 2.3		2.30	2.30	2.35	2.40	2.35	2.20	32
34			2.05	2.10	2.10	2.15	2.10	2.15	34

Note: The shaded area is determined by the boom strength.

Unit: t

Load Chart of FJ Configuration

SCC550A Crawler Crane – FJ Load Chart 4/8

Boom 31m Fixed jib 6.1m-15.25m Rear counterweight 16t

Jib Length (m) / Jib angle / R(m)	6.10		9.15		12.20		15.25		Jib Length (m) / Jib angle / R(m)
	10°	30°	10°	30°	10°	30°	10°	30°	
10	7.00	11.7m × 6	11.0m × 7						10
12	7.00	6.00	7.00		12.2m × 4.5		13.3m × 4.0		12
14	7.00	5.50	7.00	4.75	4.50		4.00		14
16	7.00	5.50	6.50	4.50	4.50	4.00	4.00		16
18	6.00	5.50	5.50	4.35	4.35	3.85	4.00	3.20	18
20	4.80	4.85	4.85	4.25	4.15	3.70	3.85	3.15	20
22	4.40	4.45	4.45	4.05	3.95	3.50	3.65	3.00	22
24	4.00	4.05	4.05	3.85	3.80	3.35	3.45	2.85	24
26	3.80	3.85	3.85	3.45	3.55	3.20	3.25	2.75	26
28	3.00	3.05	3.05	3.05	3.05	3.05	3.05	2.70	28
30	2.60	2.65	2.65	2.75	2.75	2.75	2.75	2.65	30
32	2.20	2.25	2.25	2.25	2.35	2.35	2.30	2.30	32
34		1.95	1.95	2.00	2.00	2.10	2.05	2.15	34

Note: The shaded area is determined by the boom strength.

Unit: t

Load Chart of FJ Configuration

SCC550A Crawler Crane – FJ Load Chart 5/8									
Boom 34m Fixed jib 6.1m-15.25m Rear counterweight 16t									
Jib Length (m) / Jib angle / R(m)	6.1		9.15		12.2		15.25		Jib Length (m) / Jib angle / R(m)
	10°	30°	10°	30°	10°	30°	10°	30°	
10	10.5m × 7		11.7m × 7						10
12	7.00	12.3m × 6	7.00		12.8m × 4.5		13.9m × 3.5		12
14	7.00	6.00	7.00	14.4m × 4.8	4.50		3.50		14
16	7.00	5.50	6.50	4.75	4.50	16.4m × 3.85	3.50		16
18	5.50	5.50	5.50	4.65	4.35	3.75	3.50	18.4m × 3.2	18
20	4.80	4.85	4.85	4.45	4.15	3.55	3.50	3.15	20
22	4.30	4.35	4.35	4.20	3.95	3.45	3.35	3.05	22
24	3.80	3.85	3.85	3.90	3.75	3.35	3.30	2.95	24
26	3.40	3.45	3.45	3.45	3.45	3.15	3.20	2.85	26
28	3.00	3.05	3.05	3.05	3.05	3.05	3.05	2.80	28
30	2.60	2.65	2.65	2.75	2.75	2.75	2.75	2.65	30
32	2.20	2.25	2.25	2.25	2.35	2.35	2.30	2.35	32
34	1.80	1.85	1.85	1.95	1.90	2.00	1.95	2.05	34

Note: The shaded area is determined by the boom strength.

Unit: t

Load Chart of FJ Configuration

SCC550A Crawler Crane – FJ Load Chart 6/8

Boom 37m Fixed jib 6.1m-15.25m Rear counterweight 16t

Jib Length (m) / Jib angle / R(m)	6.10		9.15		12.20		15.25		Jib Length (m) / Jib angle / R(m)
	10°	30°	10°	30°	10°	30°	10°	30°	
10	11.1m × 7								10
12	7.00	12.9m × 6	12.3m × 7		13.4m × 4.5				12
14	7.00	6.00	7.00	15.0m × 4.8	4.50		14.6m × 4.0		14
16	6.50	5.50	6.50	4.80	4.50	17.0m × 3.8	4.00		16
18	5.50	5.50	5.50	4.60	4.50	3.75	3.80	19.1m × 3.2	18
20	4.60	4.65	4.65	4.45	4.20	3.65	3.60	3.15	20
22	4.10	4.15	4.15	4.25	4.05	3.45	3.50	3.05	22
24	3.60	3.65	3.65	3.75	3.75	3.35	3.35	2.95	24
26	3.20	3.25	3.25	3.35	3.35	3.25	3.20	2.85	26
28	2.90	2.95	2.95	2.95	2.95	2.95	3.00	2.80	28
30	2.50	2.55	2.55	2.60	2.65	2.65	2.60	2.70	30
32	2.20	2.25	2.25	2.25	2.35	2.35	2.30	2.30	32
34	1.65	1.75	1.75	1.85	1.80	1.90	1.95	2.05	34

Note: The shaded area is determined by the boom strength.

Unit: t

Load Chart of FJ Configuration

SCC550A Crawler Crane – FJ Load Chart 7/8

Boom 40m Fixed jib 6.1m-15.25m Rear counterweight 16t

Jib Length (m) / Jib angle / R(m)	6.1		9.15		12.2		15.25		Jib Length (m) / Jib angle / R(m)
	10°	30°	10°	30°	10°	30°	10°	30°	
12	7.00	13.6m × 6	12.9m × 7						12
14	7.00	6.00	7.00	15.6m × 4.8	14.8m × 4.5		15.2m × 3.5		14
16	6.50	5.50	6.50	4.50	4.50		3.50		16
18	5.50	5.50	5.50	4.50	4.35	4.00	3.45	19.7m × 3.2	18
20	4.50	4.55	4.55	4.35	4.20	3.85	3.35	3.20	20
22	4.00	4.05	4.05	4.15	4.05	3.70	3.25	3.10	22
24	3.60	3.65	3.65	3.70	3.55	3.50	3.15	3.00	24
26	3.15	3.20	3.20	3.25	3.15	3.35	3.00	2.90	26
28	2.80	2.85	2.85	2.85	2.85	2.85	2.75	2.80	28
30	2.45	2.50	2.50	2.55	2.45	2.55	2.45	2.55	30
32	2.10	2.15	2.15	2.25	2.15	2.25	2.15	2.30	32
34	1.85	1.90	1.90	1.95	1.85	1.95	1.95	2.05	34

Note: The shaded area is determined by the boom strength.

Unit: t

Load Chart of FJ Configuration

SCC550A Crawler Crane – FJ Load Chart 8/8

Boom 43m Fixed jib 6.1m-15.25m Rear counterweight 16t

Jib Length (m) / Jib angle / R(m)	6.10		9.15		12.20		15.25		Jib Length (m) / Jib angle / R(m)
	10°	30°	10°	30°	10°	30°	10°	30°	
12	12.4m × 7		13.5m × 7						12
14	7.00	14.2m × 6	7.00		14.7m × 4.5		15.8m × 3.5		14
16	7.00	5.50	6.50	16.2m × 4.8	4.50		16.8m × 3.5		16
18	5.50	5.50	5.50	4.80	4.35	19.3m × 3.8	3.35		18
20	4.45	4.50	4.50	4.50	4.20	3.80	3.25	20.3m × 3.2	20
22	3.95	4.00	4.00	4.20	4.05	3.70	3.15	3.15	22
24	3.50	3.55	3.55	3.65	3.55	3.50	3.05	3.05	24
26	3.10	3.15	3.15	3.15	3.10	3.20	2.85	2.95	26
28	2.70	2.75	2.75	2.75	2.75	2.85	2.75	2.85	28
30	2.40	2.45	2.45	2.35	2.35	2.50	2.40	2.55	30
32	2.00	2.05	2.05	2.10	2.05	2.15	2.05	2.25	32
34	1.70	1.75	1.75	1.85	1.75	1.90	1.75	2.05	34

Note: The shaded area is determined by the boom strength.

Zhejiang SANY Equipment Co., Ltd.

SANY Industrial Park, No. 2087 Daishan Road, Wuxing District, Huzhou City, Zhejiang Province, P. R. of China Zip 313028
After-sales Service 400 887 8318
Consulting 400 887 9318

— Agent information —

www.sany.com.cn

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