SCC550TB-1

Telescopic Boom Crawler Crane
55 Tons Lifting Capacity

Quality Changes the World

Max. lifting moment: 216 t·m
Max. boom length: 42 m
Max. boom + jib length: 42+13 m

The parameters and diagrams in the brochure is only for reference, which is subject to further update in real machine.

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Telescopic Boom Crawler Crane

SCC550TB-1

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TELESCOPIC BOOM CRAWLER CRANE
55 TONS LIFTING CAPACITY

QUALITY CHANGES THE WORLD

Main Characteristics

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Product Specification

Engine
- Model: ISUZU 4HK1XKSC diesel engine;
- Type: four-stroke, water cooling, straight 4-cylinder, direct injection, turbo supercharging, inter-cooling. Meet Off-highway Emission Regulation of Europe (Tier III), and comply with Off-highway Emission Regulation of China (Tier III);
- Displacement: 5.2L;
- Rated power: 133kW/2000rpm;
- Maximum torque: 657N · m/1500rpm;
- Starting device: 24V-5.0kW;
- Radiator: aluminium sheet fin type radiator core;
- Air filter: dry type air filter system, fitted with main filter element, safety filter element and resistance indicator;
- Hand throttle: gear type hand throttle, electric;
- Fuel filter: replaceable paper filter element;
- Batter: 2 12Vx180Ah capacity batteries, connected in series;
- Fuel tank: 400L.

Electrical Control System
- Adopt SYIC-II integrated control system independently researched and developed by Sany. This system is featured by high integration level, accurate operation and reliable quality;
- Control system: composed of power system, engine system, main control system, Load Moment Limiter, auxiliary system and safety monitoring system. Data communication among controller, display and engine is conducted by CAN bus technology.
- Display: It can display the engine rotating speed, fuel volume, engine oil pressure, servo pressure, engine working time, load weight, boom angle, radius, rated load, failure diagnosis and other working parameters and conditions.

Hydraulic System
- Main pump: adopt open piston pump with large variable displacement, providing oil supply to the main actuator;
- Gear pump: dual gear pump for swing, radiator and control circuit;
- Control: the main pump adopts the control type of electrically proportionate positive flow, and the winch motor is piston motor with variable displacement. The operating components are two hydraulically-controlled cross handles, one hydraulic control pedal valve for boom telescoping, and one dual pedal control valve for travel, to control each actuator proportionally.
- Max. pressure of system:
  Main load, aux. load, boom/jib hoist winch and travel system: 32MPa
  Boom hoist cylinder lifting: 32MPa;
  Swing system: 20MPa
  Control system: 5MPa
- Hydraulic oil tank capacity: 550L.

Main and auxiliary lifting mechanism
- Pump and motor: energy-efficient, combination of winch balance valve and anti-hook sliding technology, lifting or lowering the load steadily;
- Winch brake adopts wet type and spring loaded fin type normally engaged brake, spring force braking, oil pressure released;
- Main and aux. load hoist winches adopt piston motor of fixed displacement to drive planetary reducer.

Main lifting mechanism	Rope speed (outermost layer)	0~140m/min
	Diameter of wire rope	Φ18mm
	Overall length of wire rope	220m
	Rated tensile force of single rope	5.7t
Auxiliary lifting mechanism	Rope speed (outermost layer)	0~140m/min
	Diameter of wire rope	Φ18mm
	Overall length of wire rope	130m
	Rated tensile force of single rope	5.7t

Boom hoist mechanism
- Double acting single piston rod hydraulic cylinder, fitted with safety balance valve, luffing angle: -1.5°~80°, adopting dead-weight luffing system to reduce the energy consumption and improve the steadiness of luffing operation.

Swing mechanism
- Swing brake adopts wet type and spring loaded fin type normally engaged brake, spring force braking;
- With integrated cushion valve, the swing system has free slip function to realize steady swing start and control, showing outstanding microinching performance.
- Unique swing cushion design ensures more stable braking;
- Swing drive: external gearing swing drive, capable of conducting 360° rotation, maximum rotation speed 2.1r/min. The maximum driving pressure can reach 20MPa;
- Swing lock: the upperworks can be locked in four positions by cylinder lock;
- Swing bearing: single row ball type bearing.

Product Specification

Counterweight
- Block-type counterweight is easy to assemble and disassemble. The self-assembly function is realized for easier transportation;
- The counterweight tray and blocks are stacked in a way that is easy to assemble, disassemble and transport;
- Rear counterweight: total 21t, with self-assembly function.

Superstructure
- High strength steel welding frame structure, no torsional deformation, reasonable component layout, and convenient maintenance service.

Cab and Control
- Novelty in cab design, artistic modeling and trim and large area glass window with a tilt angle of 20° to broaden horizon; 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;
- 10.4-inch touch scree, programmable switch is offered as optional feature to make man-machine interaction better;
- 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.

Traveling drive
- Independent traveling drive device is adopted for each side of crawler frame, so as to realize straight travel, turning through reducer and drive wheel by travel motor. And the machine is capable of automatically pick up the direction of dead ahead.
- Traveling speed: The traveling can be switched between high speed and low speed, and the high speed can be up to 3km/h;
- Gradeability: 40%.

Traveling braking
- Concealed wet type and spring loaded fin type normally engaged brake, spring force braking, oil pressure released.

Telescopic crawler
- The extension and retraction of crawler frames are realized through cylinder. The crawlers are extended at work and retracted for transport with the whole basic machine.

Crawler tensioning
- Jack is adopted to push the drive wheel and adjust the tension by adding shims.

Steering system
- It can realize single track turning and pivot turning.

Track shoe
- High strength alloy casting track shoes can ensure longer service life. 760mm wide, 62 pieces x 2.

Track roller
- Maintenance-free track roller.

Product Specification

Main boom
- The boom is made of high-strength steel structure with U-shape section area, with five sections, of which the basic boom is 11.3m and the max. boom length is 42m.
- Dual cylinder full power rope row for telescoping.

Fixed jib
- TwoFJ configurations: 7.4m and 13m respectively;
- Installation angle includes 0°, 15° and 30°.

Boom tip pulley
- Welding structure, connected with the boom through pin, and used for auxiliary hook operation.

Lifting hook

Name	Capacity (t)	Pulley block	Weight (t)	Quantity
1	60	6	0.61	1
2	5	1	0.1	1

Note: the above-mentioned operating equipment is full-up configuration. The actual configurations are subject to contract.

Safety Device

Smart Integrated Load Moment Indicator
- The integrated LMI system is provided as standard offering to realize calibration-free and high safety and efficiency for equipment control to realize calibration-free and high safety and efficiency for equipment control;
- The LMI system can automatically detect the suspended load weight, working radius of the crane and the angle of boom, and compare rated load weight and actual load, working radius and boom angle. Under normal operation condition, it can intelligently judge and automatically cut off the crane action in dangerous direction, and have black box function to record the overload information;
- Its main components include: monitor, controller, length and angle sensor, pressure sensor, etc.

Assembly/working mode switching 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.

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

Over-hoist Protection of the Main/Auxiliary Load Hoist
- Height limiter is equipped on the boom/jib tip, which prevents the hook lifting up too much. When the hook is lifted up to the limit height, the limit switch activates, alarm pops up on the monitor, buzzer on the right front control panel sends alarm, failure indicator light starts to flash and the hook hoisting action is cut off automatically.

Over-release Protection of the Main/Auxiliary Load Hoist
- Three-wrap protector is installed on main and aux. load hoist 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 monitor, automatically cutting off the winch action.

Safety Device

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 hitting.

Slewing Lock
- Electrical lock is provided, which needs to be released for swing to work, so as to prevent operator accidentally hit the handle and ensure the safety.
- Cylinder lock can lock the upperworks at two directions.

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

GPS Monitoring System
- Standard remote monitoring system: It can provide functions like GPS locating, GPRS data transfer, machine status inquiry and statistics, operating data monitoring and analysis, and remote diagnosis of failures.

Tri-color Load Indicator
- The load indicator light has three colors, i.e., 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%, the system will automatically cut off the crane's dangerous operation.

Flash Alarm
- When the LMI is powered on, the flash alarm will turn on.

Swing Indicator Light
- The swing indicator light flashes during traveling or swing.

Seat Interlock
- If the operator leaves the seat, all control handles and switches will be disabled immediately to prevent any mis-operation due to accidental collision.

Illuminating Light
- The machine is equipped with short-beam light in front of machine, lamps in operator's cab and lighting devices for night operation, as well as boom lights, 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.

Level Indicator
- Electrical level indicator can show the inclination angle of superstructure on the monitor.

Closed Circuit Monitoring System
- There are two cameras on the tail of rotating bed, which can show the rear part and winches working on the machine.

B

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55 TONS LIFTING CAPACITY

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Technical Parameters

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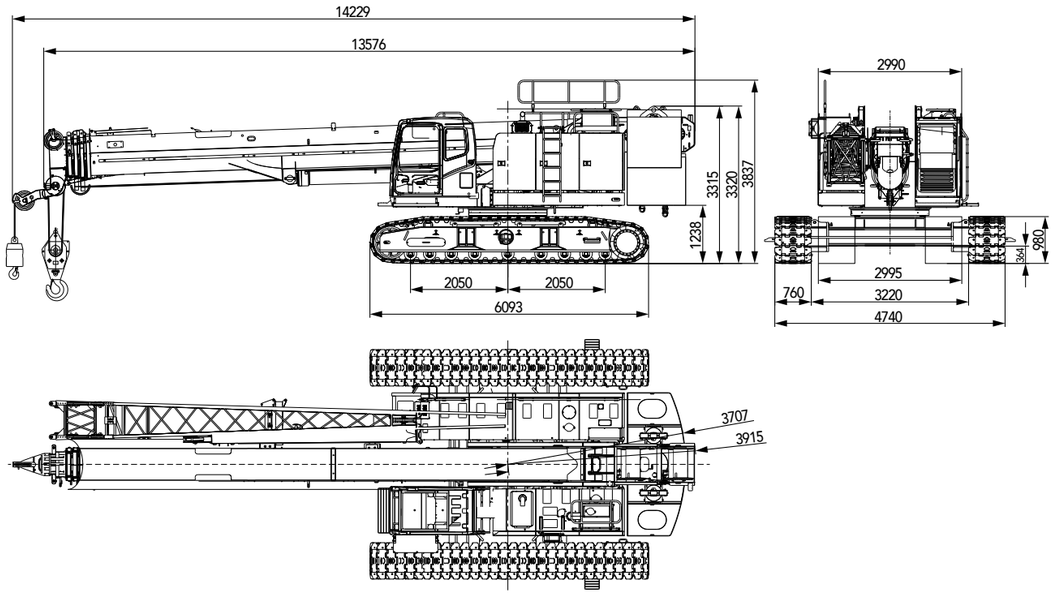
Major Performance & Specifications

Major Performance & Specifications of SCC550TB-1

Specification		Unit	Parameter
Outline dimension	Full length of the whole crane	mm	14229
	Width of the whole machine (retracted)	mm	4740(2995)
	Height of the whole machine	mm	3320
	Center distance of driving and engaged wheels	mm	5260
	Width of track shoe	mm	760
H (main boom) configuration	Maximum rated lifting weight	t	55
	Main boom length	m	11.3~42
	Main boom angle	°	-2°~80°
	Maximum rated lifting moment	t·m	216
FJ(fixed jib) configuration	Longest main boom + longest jib	m	42+13
	Included angle between main boom and jib	°	0°, 15°, 30°
Working speed	Main/aux. load hoist rope speed	m/min	0~140
	Time to fully boom up/down	s	50/60
	Time to fully extend/retract boom	s	80/80
	Slewing speed	rpm	0~2.1
	No-load traveling speed	km/h	0~3.0
Engine	Model		ISUZU 4HK1XKSC
	Rated power	kW/rpm	133/2000
Wire rope	Diameter	mm	Φ 18
Transportation parameters	Weight of the whole machine	t	63
	Maximum weight of single piece transportation	t	39.7(Remove counterweight, aux. winch bracket, jib and boom extension jib)
	Transportation dimension (long x width x height)	mm	14000x2995x3332
Other Parameters	Average ground bearing pressure	MPa	0.06
	Min. swing radius	mm	3700

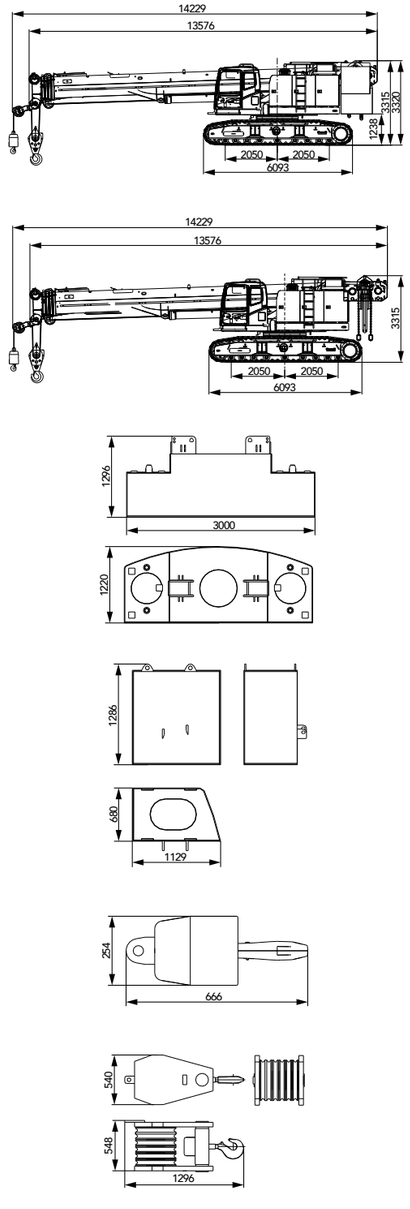
Unit: mm

Outline Dimension



Transport Dimension

Note:
① . The component transportation dimension is schematic diagram, and is not drawn to scale. The marked dimension is design value, excluding the package.
② . The weight is design value, which may be slightly different because of manufacturing tolerance. The total weight of counterweight is 9.5t.
③ . After product upgrading of the Company, the outline dimension and weight of the components above may vary, and the new product shall prevail.



Whole Machine	×1
Length (L)	14.23m
Width (W)	3.00m
Height (H)	3.32m
Weight	63.0t

Basic Machine (with jib)	×1
Length (L)	14.23m
Width (W)	2.99m
Height (H)	3.32m
Weight	42.0t

Counterweight Tray	×1
Length (L)	3.0m
Width (W)	1.22m
Height (H)	1.29m
Weight	13.0t

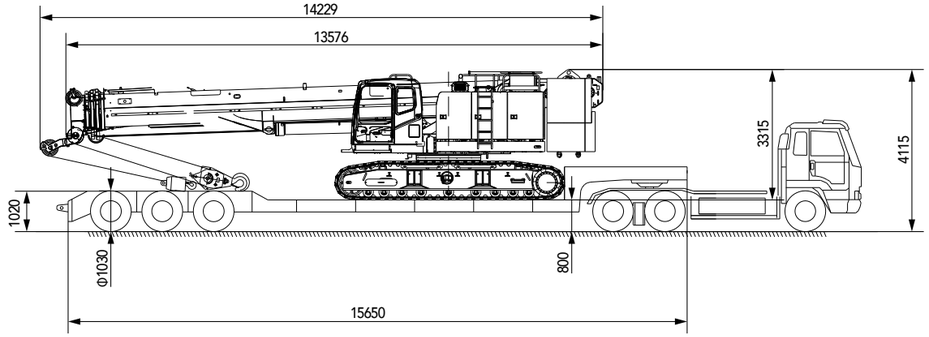
Rear Counterweight Block	×2
Length (L)	1.13m
Width (W)	0.68m
Height (H)	1.29m
Weight	4.0t

5t Hook	×1
Length (L)	0.67m
Width (W)	0.25m
Height (H)	0.25m
Weight	0.1t

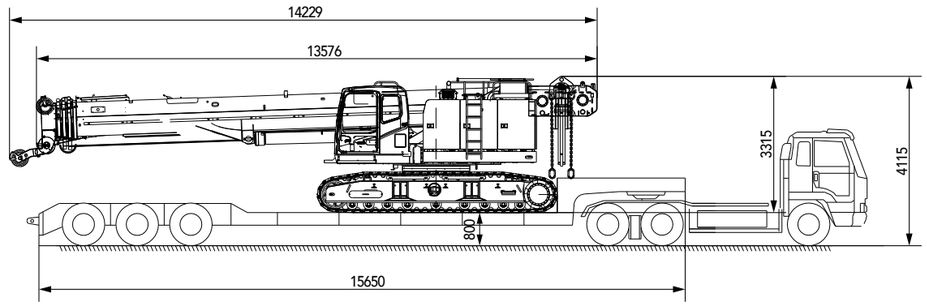
60t Hook	×1
Length (L)	1.29m
Width (W)	0.55m
Height (H)	0.54m
Weight	0.6t

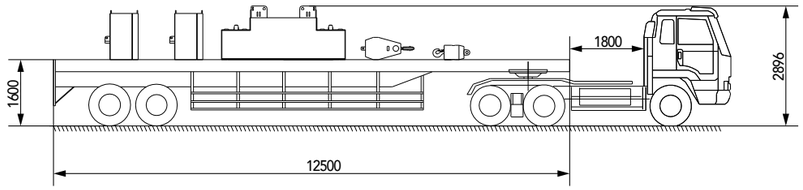
Transport Plan

■ Transport mode 1: Whole machine transport, 63t, one truckload.



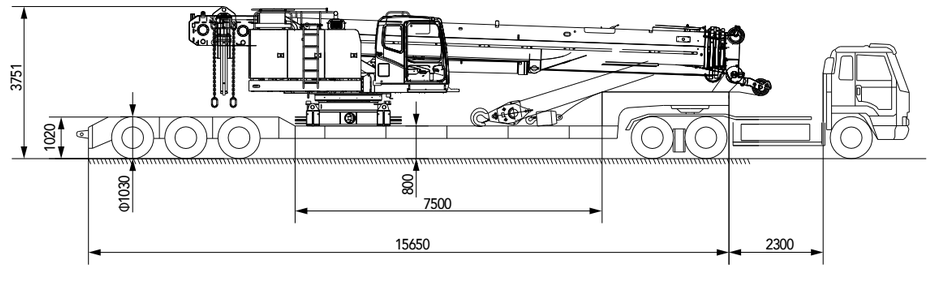
■ Transport mode 2: basic machine (without counterweight and hook) 41.3t + counterweight and hook transport 21.7t, a total of 2 truckloads.

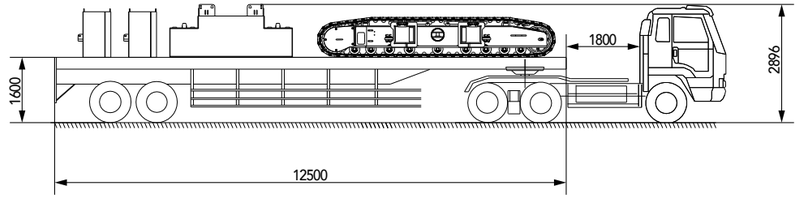




Transport Plan

■ Transport mode 3: machine transport 28.85t (without crawlers and counterweight) + counterweight and crawlers 34.15t, total 2 truckloads.





C

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QUALITY CHANGES THE WORLD

Cofigurations

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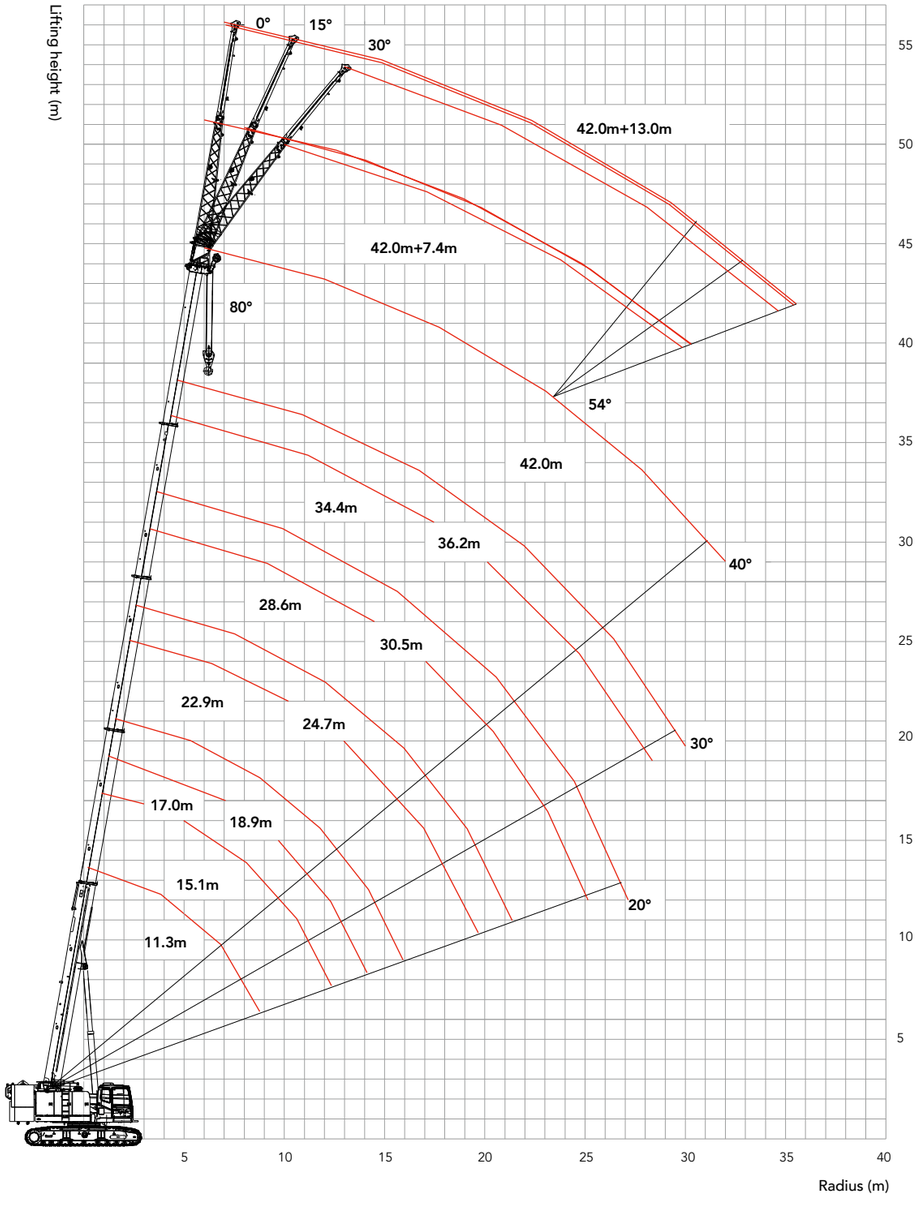
Working range of H



Unit: t

Load Chart of H

SCC550TB-1 Telescopic Boom Crawler Crane—(ground level 0~1°)

Counterweight 21t

Radius (m)	11.3	15.1	17	18.9	20.8	22.9	24.7	26.6	28.6	30.5	32.4	34.4	36.2	38.2	42	Radius (m)
3	55															3
3.5	50	39	22	34.2												3.5
4	50	37	21	33.3	22.5											4
4.5	48	35	19.5	31.5	21	16.5	24.6									4.5
5	41.2	32	18	29.5	20	15.5	23.8	16.5								5
5.5	32.5	30	16	27.5	19	14.5	22.2	15.5								5.5
6	29.8	28	15	25.3	17.5	14	21.2	15	13.6	17.1						6
6.5	28.5	25.2	14	23.7	16.5	13	20.6	14.5	12.7	15.9	12.5					6.5
7	25.1	24.6	13.5	22.6	16	12.5	19.6	13.6	12.1	15.4	12	9.5	13			7
7.5	22.4	21.8	13	21.5	15	11.6	18.5	12.8	11.5	14.8	11.5	9.5	12.5			7.5
8	20.1	19.5	12.5	19.3	14.5	11	18.3	12.2	10.9	14.4	11	9.0	12	9		8
9	16.5	15.9	12	15.7	11.5	10.5	16.6	11	9.9	12.9	10	8.7	11	8.5	8.6	9
10		13.3	11.7	13.1	10.5	9.7	14.1	10	8.9	12.4	9.2	8.1	10	8	8.4	10
11		11.2	10.6	11.1	9.5	9.3	12.1	9.6	8.3	11.7	8.5	7.6	9.3	7.5	8	11
12		9.5	9.5	9.5	8.5	8.6	10.3	9.2	7.8	11	8	6.9	8.7	7	7.5	12
14			8.6	6.9	8.1	8.0	7.9	8.9	7.1	8.5	7.5	6.1	7.7	6.5	6.5	14
16				5.0	6.3	7.4	6.0	7.3	6.2	6.7	6.9	5.6	6.9	6	5.8	16
18						6.0	4.6	5.9	5.4	5.3	6	5.1	5.6	5.5	5.1	18
20							3.5	4.8	4.9	4.1	4.8	4.6	4.5	5.1	4.5	20
22								3.7	4.4	3.3	4.3	3.9	3.6	4.3	4	22
24									3.7	2.6	3.6	3.5	2.9	3.6	3.2	24
26										1.9	2.8	3.2	2.3	3	2.7	26
28											2.1	2.8	1.8	2.5	2.1	28
30												2.3	1.3	2	1.6	30
32														1.5	1.3	32
Parts of line	12	10	6	8	6	4	6	4	4	4	4	3	4	3	3	Parts of line
Min. Angle													20°	20°	20°	Min. Angle
Telescoping Status (%)																
Telescoping Cylinder	III	I	II	I	III	II	I	III	II	I	III	II	I	III	III	Telescoping Cylinder
Section 2	0	50	0	100	50	0	100	50	0	100	50	0	100	50	100	Section 2
Section 3	0	0	25	0	25	50	25	50	75	50	75	100	75	100	100	Section 3
Section 4	0	0	25	0	25	50	25	50	75	50	75	100	75	100	100	Section 4
Section 5	0	0	25	0	25	50	25	50	75	50	75	100	75	100	100	Section 5

Unit: t

Load Chart of H

SCC550TB-1 Telescopic Boom Crawler Crane—(ground level 1~4°)

Counterweight 21t

Radius (m)	11.3	15.1	17	18.9	20.8	22.9	24.7	26.6	28.6	30.5	32.4	34.4	36.2	38.2	42	Radius (m)
3	44	0														3
3.5	40	31.2	13.2	27.36												3.5
4	40	29.6	12.6	26.64	13.5											4
4.5	38.4	28	11.7	25.2	12.6	9.9	14.76									4.5
5	32.96	25.6	10.8	23.6	12	9.3	14.28	9.9								5
5.5	26	24	9.6	22	11.4	8.7	13.32	9.3								5.5
6	23.84	22.4	9	20.24	10.5	8.4	12.72	9	8.16	10.26						6
6.5	22.8	20.16	8.4	18.96	9.9	7.8	12.36	8.7	7.62	9.54	7.5					6.5
7	20.08	19.68	8.1	18.08	9.6	7.5	11.76	8.16	7.26	9.24	7.2	5.7	7.8			7
7.5	17.92	17.44	7.8	17.2	9	6.96	11.1	7.68	6.9	8.88	6.9	5.7	7.5			7.5
8	16.08	15.6	7.5	15.44	8.7	6.6	10.98	7.32	6.54	8.64	6.6	5.4	7.2	5.4		8
9	13.2	12.72	7.2	12.56	6.9	6.3	9.96	6.6	5.94	7.74	6	5.22	6.6	5.1	5.16	9
10		10.64	7.02	10.48	6.3	5.82	8.46	6	5.34	7.44	5.52	4.86	6	4.8	5.04	10
11		8.96	6.36	8.88	5.7	5.58	7.26	5.76	4.98	7.02	5.1	4.56	5.58	4.5	4.8	11
12		7.6	5.7	7.6	5.1	5.16	6.18	5.52	4.68	6.6	4.8	4.14	5.22	4.2	4.5	12
14			5.16	5.52	4.86	4.8	4.74	5.34	4.26	5.1	4.5	3.66	4.62	3.9	3.9	14
16				4	3.78	4.44	3.6	4.38	3.72	4.02	4.14	3.36	4.14	3.6	3.48	16
18						3.6	2.76	3.54	3.24	3.18	3.6	3.06	3.36	3.3	3.06	18
20							2.1	2.88	2.94	2.46	2.88	2.76	2.7	3.06	2.7	20
22								2.22	2.64	1.98	2.58	2.34	2.16	2.58	2.4	22
24									2.22	1.56	2.16	2.1	1.74	2.16	1.92	24
26										1.14	1.68	1.92	1.38	1.8	1.62	26
28											1.26	1.68	1.08	1.5	1.26	28
30												1.38	0.78	1.2	0.96	30
32													0.9	0.78	32	
Parts of line	12	10	6	8	6	4	6	4	4	4	4	3	4	3	3	Parts of line
Min. Angle													20°	20°	20°	Min. Angle
Telescoping Status (%)																
Telescoping Cylinder	III	I	II	I	III	II	I	III	II	I	III	II	I	III	III	Telescoping Cylinder
Section 2	0	50	0	100	50	0	100	50	0	100	50	0	100	50	100	Section 2
Section 3	0	0	25	0	25	50	25	50	75	50	75	100	75	100	100	Section 3
Section 4	0	0	25	0	25	50	25	50	75	50	75	100	75	100	100	Section 4
Section 5	0	0	25	0	25	50	25	50	75	50	75	100	75	100	100	Section 5

Unit: t

Load Chart of H

SCC550TB-1 Telescopic Boom Crawler Crane—(ground level 0~1°)

Counterweight 0t

Radius (m)	11.3	15.1	17	18.9	20.8	22.9	24.7	26.6	28.6	30.5	32.4	34.4	36.2	38.2	42	Radius (m)
3	41.6															3
3.5	32.1	27.1	28.5	23.4												3.5
4	25.8	22	23.6	19.2	20.5											4
4.5	21.2	18.2	20	16	17.4	18.4	15.3									4.5
5	17.9	15.3	17.2	13.5	15	16.1	13.2	14.8								5
5.5	15.2	13.1	14.9	11.5	13	14.1	11.5	13.1								5.5
6	12.7	11.2	13.1	9.8	11.4	12.6	10	11.6	11.9	9.8						6
6.5	10.8	9.7	11.6	8.5	10	11.2	8.8	10.4	10.7	8.7	10.1	10.1				6.5
7	9.2	8.4	10.3	7.3	8.9	10.1	7.7	9.4	9.7	7.8	9.1	9.2	7.6			7
7.5	7.9	7.3	9.2	6.3	7.9	9.1	6.8	8.5	8.8	6.9	8.3	8.4	6.8			7.5
8	6.8	6.3	8.2	5.5	7	8.3	6	7.7	8	6.2	7.6	7.7	6.2	6.8		8
9	5.1	4.6	6.4	4	5.6	6.8	4.7	6.3	6.7	5	6.4	6.5	5	5.7	4.8	9
10		3.4	5.1	2.9	4.5	5.7	3.7	5.3	5.7	4	5.4	5.5	4.1	4.8	4	10
11		2.4	4.1	2	3.5	4.7	2.8	4.4	4.8	3.2	4.6	4.7	3.4	4	3.2	11
12		1.6	3.2	1.2	2.7	3.9	2.1	3.7	4.1	2.5	3.9	4	2.7	3.4	2.6	12
13		0.9	2.6	0.6	2	3.2	1.5	3.1	3.5	1.9	3.3	3.5	2.2	2.8	2.1	13
14			2		1.5	2.6	1	2.5	2.9	1.4	2.8	3	1.7	2.4	1.7	14
15			1.5		1	2.1	0.5	2	2.4	1	2.3	2.5	1.3	2	1.3	15
16					0.6	1.7		1.6	2	0.6	2	2.2	0.9	1.6	0.9	16
17						1.3		1.3	1.7		1.6	1.8	0.6	1.3	0.6	17
18						1		0.9	1.3		1.3	1.5		1		18
19						0.8		0.7	1.1		1	1.3		0.7		19
20						0.5			0.8		0.8	1		0.5		20
22												0.6				22
Parts of line	12	10	6	8	6	4	6	4	4	4	4	3	4	3	3	Parts of line
Min. Angle				36°	25°	15°	45°	35°	35°	50°	45°	45°	55°	55°	60°	Min. Angle
Telescoping Status (%)																
Telescoping Cylinder	III	I	II	I	III	II	I	III	II	I	III	II	I	III	III	Telescoping Cylinder
Section 2	0	50	0	100	50	0	100	50	0	100	50	0	100	50	100	Section 2
Section 3	0	0	25	0	25	50	25	50	75	50	75	100	75	100	100	Section 3
Section 4	0	0	25	0	25	50	25	50	75	50	75	100	75	100	100	Section 4
Section 5	0	0	25	0	25	50	25	50	75	50	75	100	75	100	100	Section 5

Unit: t

Load Chart of H

SCC550TB-1 Telescopic Boom Crawler Crane—(ground level 0~1°)

Counterweight 21t

Radius (m)	11.3	15.1	17	18.9	20.8	22.9	24.7	26.6	28.6	30.5	32.4	34.4	36.2	38.2	42	Radius (m)
3	4															3
3.5	4	4	4	4												3.5
4	4	4	4	4	4											4
4.5	4	4	4	4	4	4	4									4.5
5	4	4	4	4	4	4	4	4								5
5.5	4	4	4	4	4	4	4	4								5.5
6	4	4	4	4	4	4	4	4	4	4						6
6.5	4	4	4	4	4	4	4	4	4	4	4					6.5
7	4	4	4	4	4	4	4	4	4	4	4	4	4			7
7.5	4	4	4	4	4	4	4	4	4	4	4	4	4			7.5
8	4	4	4	4	4	4	4	4	4	4	4	4	4	4		8
9	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	9
10		4	4	4	4	4	4	4	4	4	4	4	4	4	4	10
11		4	4	4	4	4	4	4	4	4	4	4	4	4	4	11
12		4	4	4	4	4	4	4	4	4	4	4	4	4	4	12
14			4	4	4	4	4	4	4	4	4	4	4	4	4	14
16				4	4	4	4	4	4	4	4	4	4	4	4	16
18						4	4	4	4	4	4	4	4	4	4	18
20							3	4	4	3.6	4	4	3.9	4	4	20
22								3.3	3.9	2.8	3.5	4	3.1	3.7	3.4	22
24									3.2	2.2	2.9	3.5	2.5	3.1	2.8	24
26										1.6	2.3	2.9	1.9	2.5	2.2	26
28											1.8	2.4	1.5	2.1	1.8	28
30												2	1.1	1.7	1.4	30
32														1.3	1.0	32
Parts of line	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Parts of line
Min. Angle													20°	20°	20°	Min. Angle
Telescoping Status (%)																
Telescoping Cylinder	III	I	II	I	III	II	I	III	II	I	III	II	I	III	III	Telescoping Cylinder
Section 2	0	50	0	100	50	0	100	50	0	100	50	0	100	50	100	Section 2
Section 3	0	0	25	0	25	50	25	50	75	50	75	100	75	100	100	Section 3
Section 4	0	0	25	0	25	50	25	50	75	50	75	100	75	100	100	Section 4
Section 5	0	0	25	0	25	50	25	50	75	50	75	100	75	100	100	Section 5

Unit: t

Load Chart of Jib

SCC550TB-1 Telescopic Boom Crawler Crane -Jib							
Working angle	42+7.4m Jib			42+13m Jib			Working angle
	0°	15°	30°	0°	15°	30°	
78°	3.5	2.4	2.0	2.4	1.5	1.0	78°
77°	3.2	2.3	1.9	2.4	1.4	1.0	77°
75°	3.0	2.2	1.8	2.3	1.3	1.0	75°
73°	2.7	2.0	1.7	2.0	1.2	0.9	73°
71°	2.5	1.8	1.6	1.8	1.1	0.9	71°
68°	2.2	1.7	1.4	1.5	1.0	0.8	68°
66°	2.0	1.5	1.3	1.3	1.0	0.8	66°
63°	1.8	1.4	1.1	1.1	0.9	0.7	63°
61°	1.5	1.2	1.0	1.0	0.8	0.7	61°
58°	1.1	1.0	0.8	0.7	0.6	0.6	58°
56°	0.7	0.7	0.6	0.5			56°
Minimum elevation angle	54°	54°	54°	54°	54°	54°	Minimum elevation angle

Note-Rate load of crane:

1.The crawlers of crane must be extended during working;
2.The rated capacity in the load charts are calculated when the crane is parking on firm and level ground less than 1° gradient, and lifting the load slowly and steadily;
3.The rated capacity values in the load charts are obtained when the wind speed is lower than 9.8 m/s under 75% of tipping load;
4.All values in the load charts are valid for 360° slewing;
5.The gray-shaded values in boom load chart are determined by boom strength, and the rest of values are determined by stability. The rated load determined by stability followed ISO4305;
6.The rated load shall be no more than 4t when using boom tip sheave. If the jib unfolds, the rated lifting capacity of boom is 2.3t less.
7.The rated capacity in the load charts include the weight of lifting hook,(main hook 0.6t, jib hook 0.1t) , therefore, the actual rated capacity shall deduct the weight of lifting hook, riggings and wire rope from the rated load in the load charts.

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