SCC750A-6

Crawler Crane
75 Tons Lifting Capacity

Quality Changes the World

Max. lifting moment: 300t·m
Max. boom length: 57m
Max. fixed jib combination: 45m+18m

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

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Version: V1.0

Crawler Crane Series
SCC750A-6

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SANY CRAWLER CRANE
75 TONS LIFTING CAPACITY

QUALITY CHANGES THE WORLD

Main Characteristics

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Product Specification

Engine

- Model: WEICHAI WP7 Diesel engine;
- Type: 4-stroke, water-cooled, 6 cylinders vertical in-line , direct injection, turbo-charger, intercooler, complied with Chinese Off-highwayTier III Emission Standard;
- Displacement: 7.47L;
- Rated power: 199kW/2300rpm;
- Operation power: 199kW/1800rpm;
- Max. Torque: 1200N·m/(1200-1500)rpm;
- Starter: 24V-5.0kW;
- Radiator: fin type aluminum plate core;
- Air cleaner: Dry type system with main filter element, safety element and resistance indicator;
- Fan: With silicone oil clutch, saving energy and cutting noise;
- 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, engine working hours, lifting conditions and boom angle;
- The Sky Eye System and remote control of machine traveling on/off the trailer is offered as optional.

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, luffing and travel system: 32Mpa;
- Swing system: 20 MPa;
- Control system: 4.5 MPa;
- Hydraulic Tank Capacity:260L.

Main and Aux. Load Hoist Mechanism

- Main and aux. load 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 are offered as optional.

Main and Aux. Load Hoist Mechanism	Drum diameter	520 mm
	Rope speed of main/auxiliary winch	0 ~135 m/min
	Wire rope diameter	ϕ22 mm
	Wire rope length of main/auxiliary load hoist	240 m/150 m
	Rated single line pull	7.5 t

Product Specification

Boom Hoist

- Boom hoist winch is 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	Drum diameter	355mm
	Boom hoist rope speed	0~96m/min
	Wire rope diameter	ϕ16mm
	Wire rope length of boom hoist	148m

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 2.5r/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

- The upgraded cab is designed with interior and control consoles more softened and consistent. The hatchback glass at front and sliding windows at two sides ventilate the cab and facilitate the communication with outsides. The layout of seat, handles, control buttons are designed with ergonomic principles to make operation more comfortable;
- Monitor: The integrated touch screen and independent monitoring display makes man-machine interaction 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;
- Monitoring cameras with auto-back video, can monitor in real time the conditions behind the counterweight and surrounding around.

Counterweight

- Counterweight trays and blocks are stacked for easier assembly and transport;
- Total rear counterweight: 24t (approximately);
- Rear counterweight: counterweight tray 8t, 3.9t counterweight block×2, 4.1t counterweight block×2;
- Carbody counterweight: 2t counterweight block×2.

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;
- Outrigger cylinders of lowerworks are offered as options.

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 800mm wide, and the total amount is 65pcs 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: 6m boom top+6m boom base;
- Insert: 3m×1,6m×1,9m×4;
- Boom length: 12m ~57m.

Fixed Jib

- Lattice structure. The chord adopts high-strength structural tube and each section is connected through pins;
- Basic boom: 4.5m boom top +4.5m boom base;
- Insert: 4.5m×2;
- Length of fixed jib: 9m~18m;
- Longest boom+jib: 45m boom+18m jib.

Extension Jib

- The extension jib is a welded structure connected to the boom by pins, used for auxiliary hook;
- Extension jib length: 1.1m .

Hook Block

- 75t hook block, 5 sheaves;
- 45t hook block, 3 sheaves;
- 15t hook, 1 sheave;
- 9t ball hook.

Safety Device

Installation/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.

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 LMI 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;
- Composition: 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 lever 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 hoist lock is designed to lock the drum when the boom doesn’t need to move, in order to prevent mis-operation. The boom hoist pawl can open and close by control of handle, and when the handle return to neutral position, the pawl will lock the drum automatically to ensure the work safety of boom.

Slewing Lock

- Slewing Lock can lock the upperworks and lowerworks of crane in front, rear, left and right directions.

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.

Safety Device

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 102% 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 slewing indicator light flashes during traveling or slewing.

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

- 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.

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SANY CRAWLER CRANE
75 TONS LIFTING CAPACITY

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Technical Parameters

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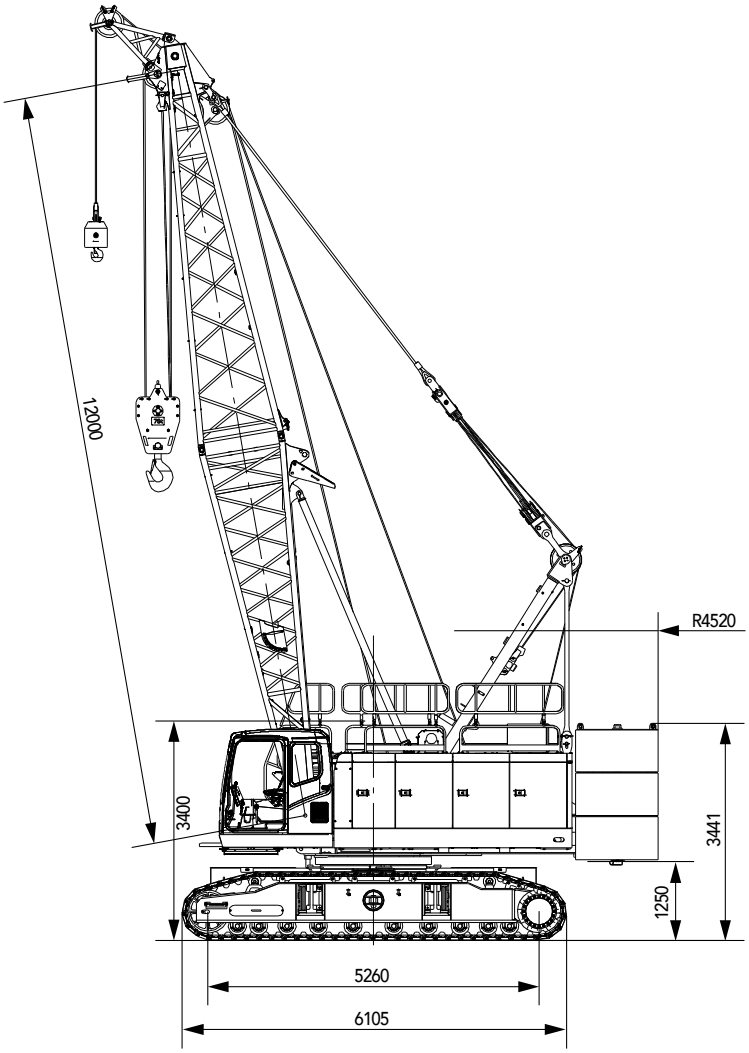
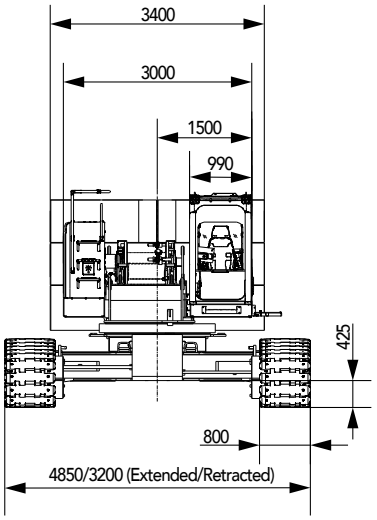
Major Performance & Specifications

Major Performance & Specifications of SCC750A-6			
Performance Indicators		Unit	Parameter
Boom Configuration	Max. rated lifting capacity	t	75
	Largest lifting moment	t·m	300
	Boom length	m	12~57
	Main boom luffing angle	°	30~81
Fixed jib	Max. rated lifting capacity	t	7.5
	Jib length	m	9~18
	Longest boom + jib	m	45+18
Speed	Rope speed of main/auxiliary load hoist winch	m/min	0~135
	Rope speed of boom hoist winch (3rd layer)	m/min	0~96
	Swing speed	rpm	0~2.5
	Travel speed	km/h	0~1.1
Wire rope	Main load hoist wire rope: Diameter × length	ϕmm × m	ϕ22×240
	Auxiliary load hoist wire rope: Diameter × length	ϕmm × m	ϕ22×150
	Rated single line pull of main/aux. load hoist wire rope	t	7.5
Engine	Model/Displacement	\L	WP7/7.47
	Rated power/revolution speed	kW/rpm	199/2300
Transport	Weight of machine with basic boom	t	66.7
	Rear counterweight	t	24
	Transport weight of basic machine (with crawler frames and boom base)	t	38.2
	Transport weight of basic machine (without crawler frames and boom base)	t	21
	Machine transport dimension (with crawler frames and boom base) L x W x H	mm	12500×3200×3400
	Machine transport dimension (without crawler frames and boom base) L x W x H	mm	8100×3000×3100
Other specifications	Average ground pressure (basic boom)	MPa	0.077
	Gradeability	%	30

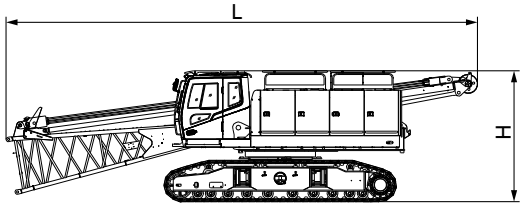
Unit: mm

Outline Dimension

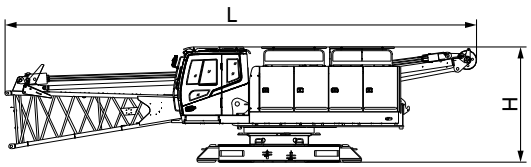




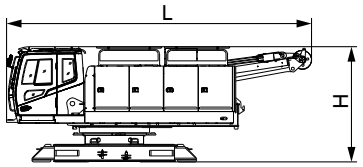
Transport Dimension



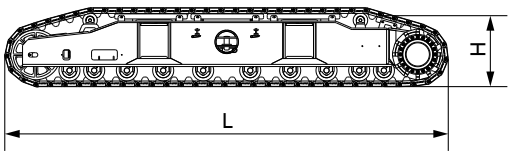
Basic machine 1 (with boom base and crawler frames)	×1
Length(L)	12.50m
Width(W)	3.20m
Height(H)	3.40m
Weight	38.2t



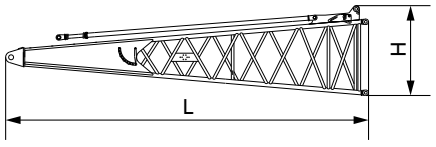
Basic machine 2 (with boom base)	×1
Length (L)	12.50m
Width (W)	3.00m
Height (H)	3.10m
Weight	22.2t



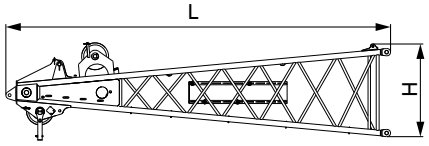
Basic machine 3	×1
Length (L)	8.10m
Width (W)	3.00m
Height (H)	3.10m
Weight	21.0t



Crawler	×2
Length(L)	6.10m
Width(W)	1.10m
Height(H)	1.10m
Weight	8.0t

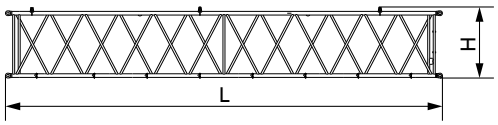


Boom base	×1
Length(L)	6.20m
Width(W)	1.75m
Height(H)	1.87m
Weight	1.2t

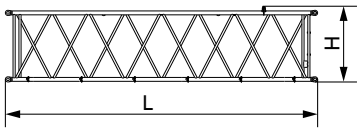


Boom top	×1
Length(L)	6.64m
Width(W)	1.48m
Height(H)	1.66m
Weight	0.97t

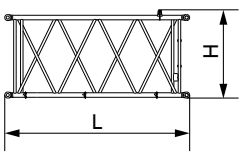
Transport Dimension



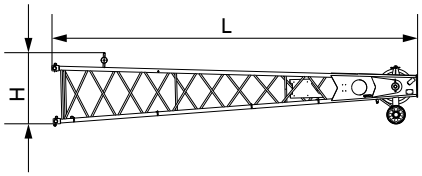
9m boom insert	×4
Length(L)	9.15m
Width(W)	1.48m
Height(H)	1.58m
Weight	0.87t



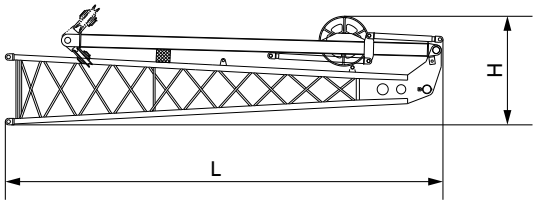
6m boom insert	×1
Length (L)	6.15m
Width (W)	1.48m
Height (H)	1.58m
Weight	0.59t



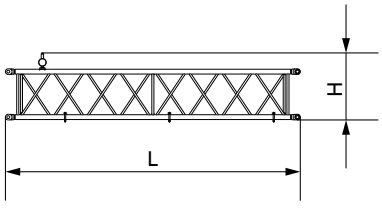
3m boom insert	×1
Length (L)	3.15m
Width (W)	1.48m
Height (H)	1.58m
Weight	0.38t



Fixed jib top	×1
Length(L)	4.93m
Width(W)	0.87m
Height(H)	0.92m
Weight	0.31t

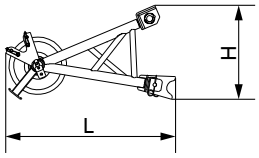


Fixed jib base and strut	×1
Length(L)	4.75m
Width(W)	0.87m
Height(H)	1.18m
Weight	0.75t

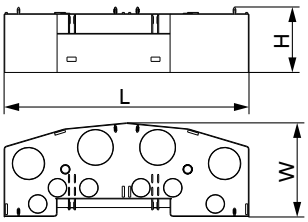


4.5m fixed jib insert	×2
Length(L)	4.57m
Width(W)	0.87m
Height(H)	0.83m
Weight	0.24t

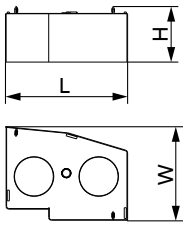
Transport Dimension



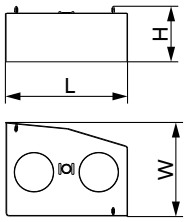
Extension jib	×1
Length (L)	1.40m
Width (W)	1.00m
Height (H)	0.80m
Weight	0.13t



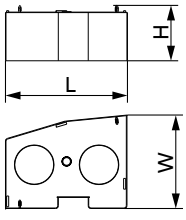
Counterweight tray	×1
Length (L)	3.40m
Width (W)	1.30m
Height (H)	0.79m
Weight	8.0t



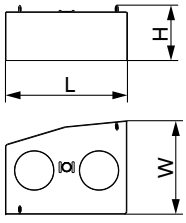
Left counterweight block I	×1
Length (L)	1.70m
Width (W)	1.30m
Height (H)	0.77m
Weight	3.9t



Left counterweight block II	×1
Length(L)	1.70m
Width(W)	1. 30m
Height(H)	0.77m
Weight	4.1t

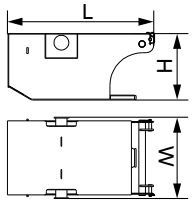


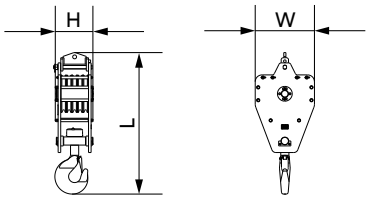
Right counterweight block I	×1
Length(L)	1.70m
Width(W)	1.30m
Height(H)	0.77m
Weight	3.9t

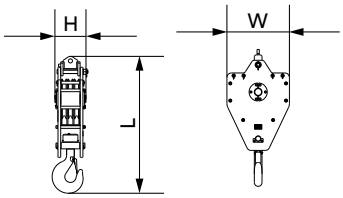


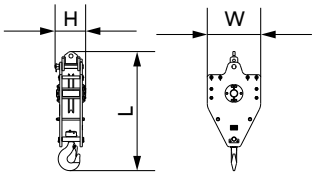
Right counterweight block II	×1
Length(L)	1.70m
Width(W)	1.30m
Height(H)	0.77m
Weight	4.1t

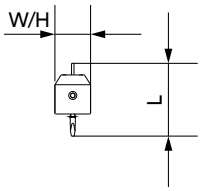
Transport Dimension











Carbody counterweight block	×2
Length(L)	1.60m
Width(W)	0.88m
Height(H)	0.72m
Weight	2.0t

75T hook	×1
Length(L)	1.75m
Width(W)	0.69m
Height(H)	0.43m
Weight	0.70t

45T hook	×1
Length (L)	1.52m
Width (W)	0.69m
Height (H)	0.37m
Weight	0.48t

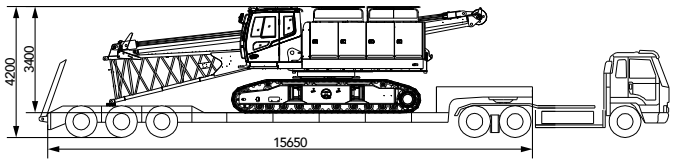
15T hook	×1
Length (L)	1.34m
Width (W)	0.60m
Height (H)	0.34m
Weight	0.28t

9T ball hook	×1
Length(L)	0.75m
Width(W)	0.30m
Height(H)	0.30m
Weight	0.19t

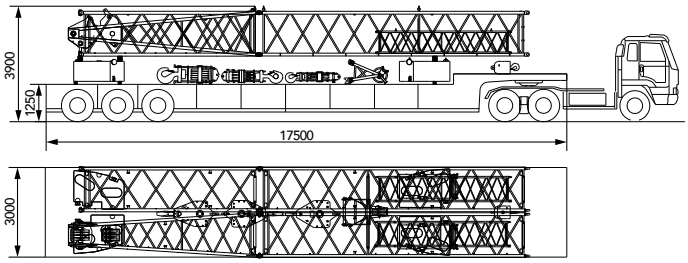
Note:
① . The transport dimensions of each part in the table are schematic, not proportional to the real parts. The dimensions are designed value without package considered.
② . The weight is designed value that the actual manufactured part may deviate a little.

Transport Plan

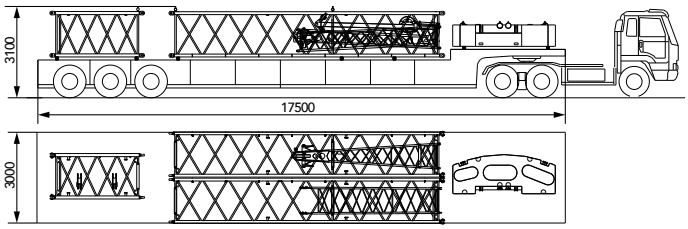
Trailer 1	
Part(s)	▪ Basic machine
Weight	▪ 38.2t



Trailer 2	
Part(s)	▪ Boom top × 1 ▪ 9m boom insert × 2 ▪ 6m boom insert × 1 ▪ 4.5m fixed jib insert × 2 ▪ Extension jib × 1 ▪ Left counterweight block I × 1 ▪ Right counterweight block I × 1 ▪ Left counterweight block II × 1 ▪ Right counterweight block II × 1 ▪ 75T hook × 1 ▪ 45T hook × 1 ▪ 15T hook × 1 ▪ 9T hook × 1
Weight	▪ 21.56t



Trailer 3	
Part(s)	▪ Rear counterweight tray × 1 ▪ Fixed jib top × 1 ▪ Fixed jib base × 1 ▪ 9m boom insert × 2 ▪ 3m boom insert × 1 ▪ Carbody counterweight block × 2
Weight	▪ 15.18t



C

SCC750A-6
SANY CRAWLER CRANE
75 TONS LIFTING CAPACITY

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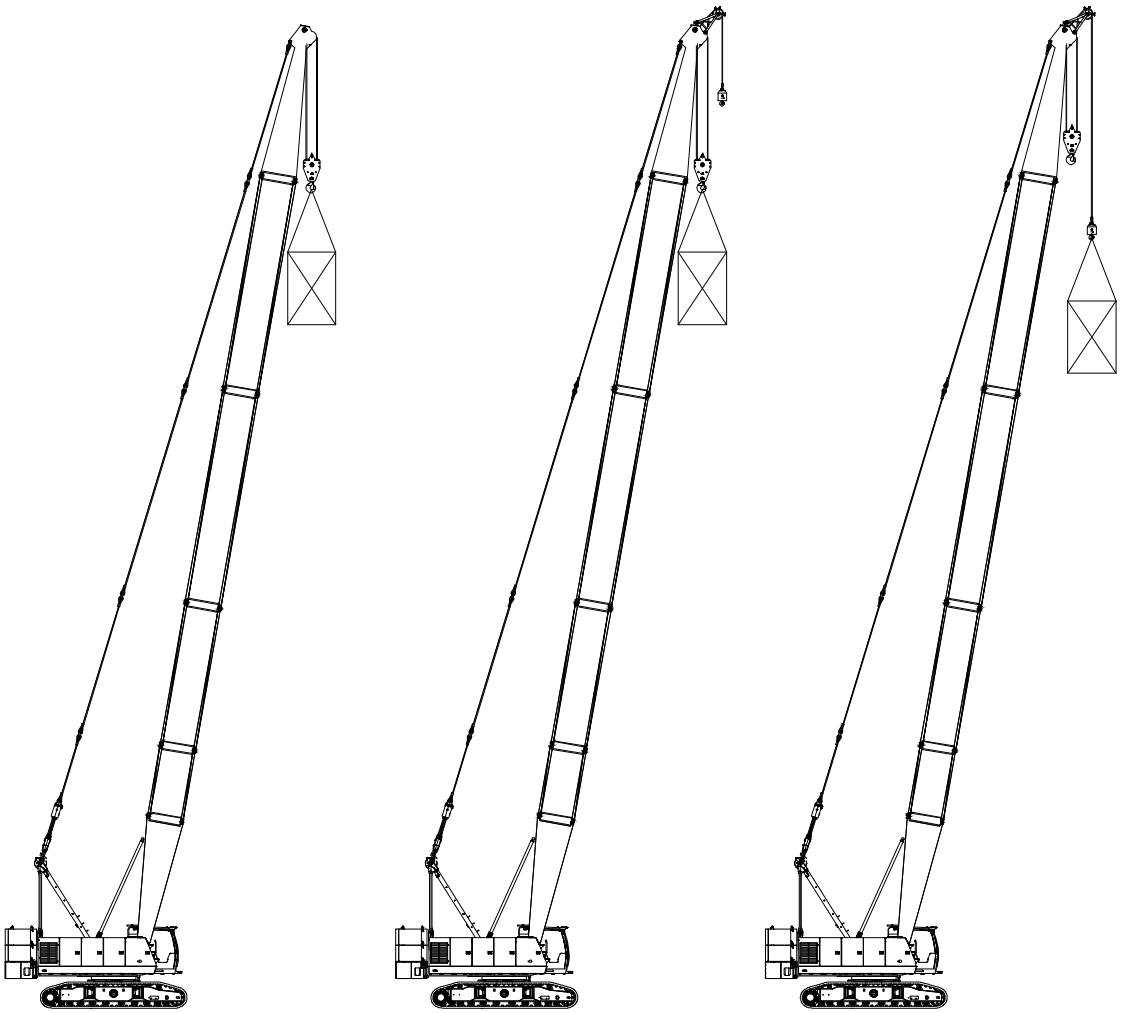
Cofigurations

> 17

Boom Combination



H Configuration

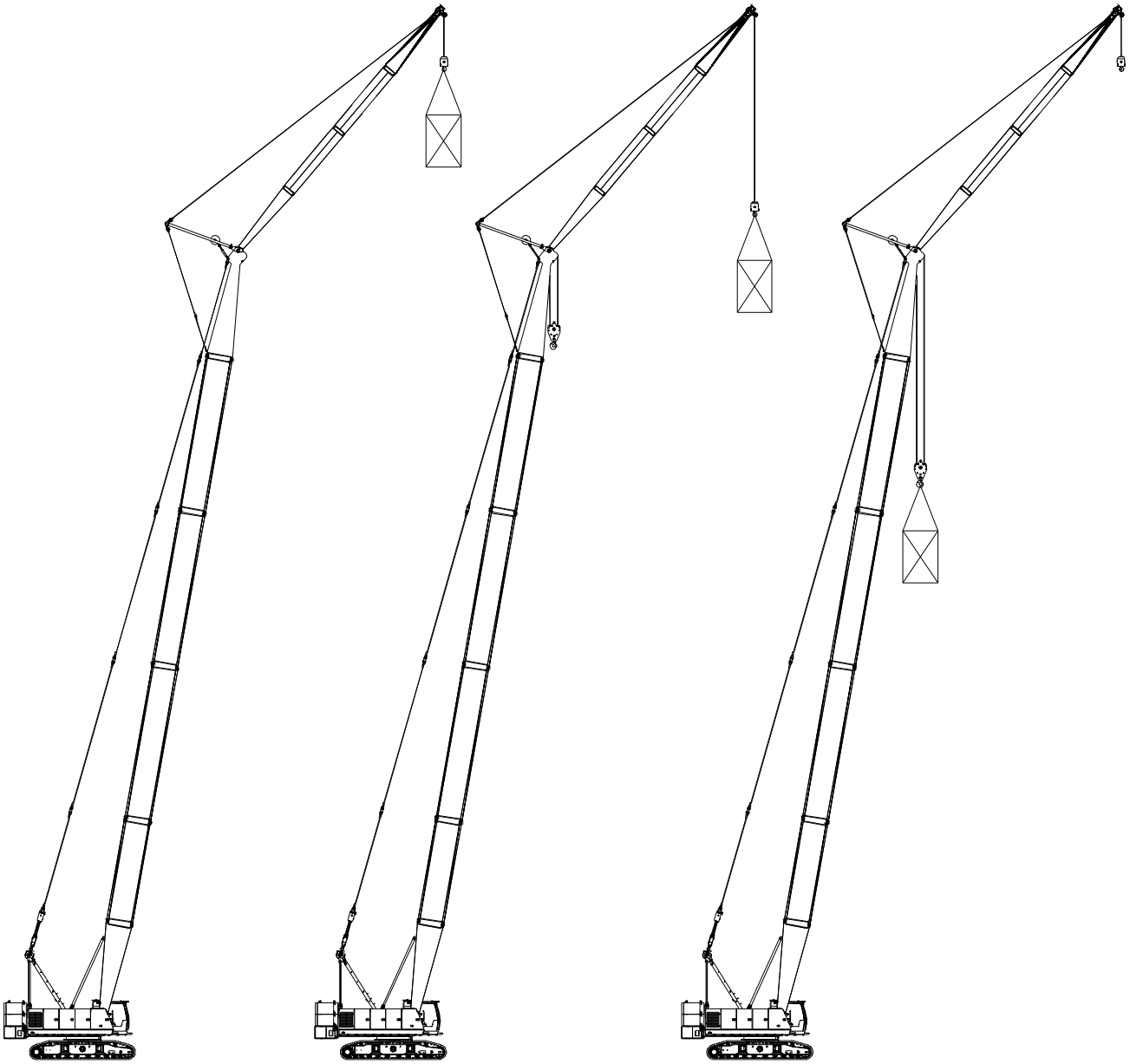
HCm Configuration
(double hooks, load on main hook)

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

Configuration	Boom Conbination	Boom Length
H	Boom	12m~57m
HCm	Boom + Extension jib (double hooks, load on main hook)	
HCa	Boom + Extension jib (double hooks, load on aux. hook)	

Note: The schematics above are reference for loading only.

Boom Combination



FJ Configuration (single hook)

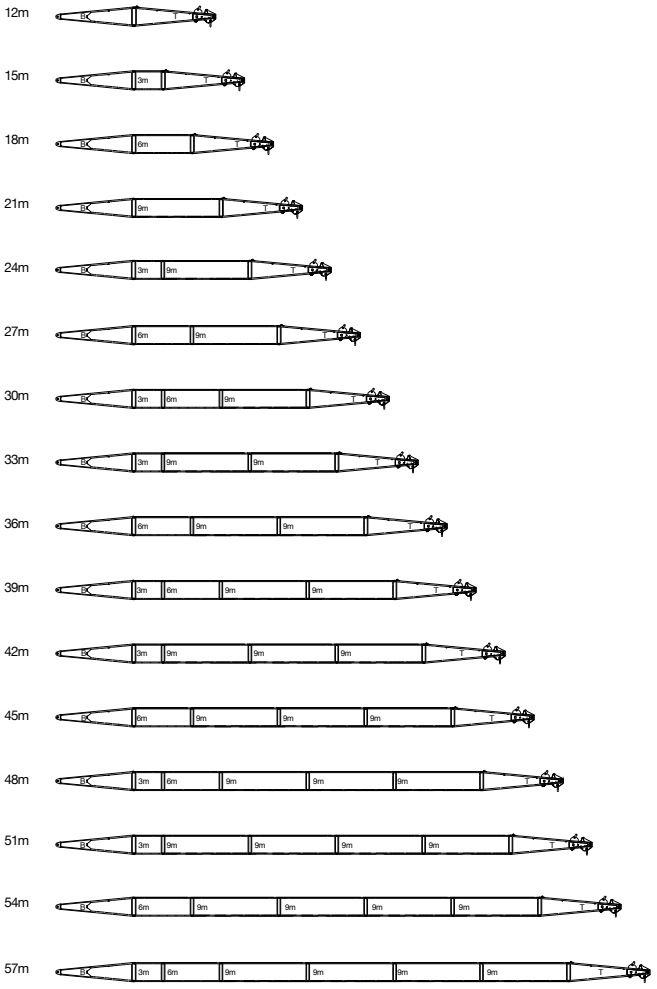
FJa Configuration (double hooks, load on aux. hook)

FJm (double hooks, load on main hook)

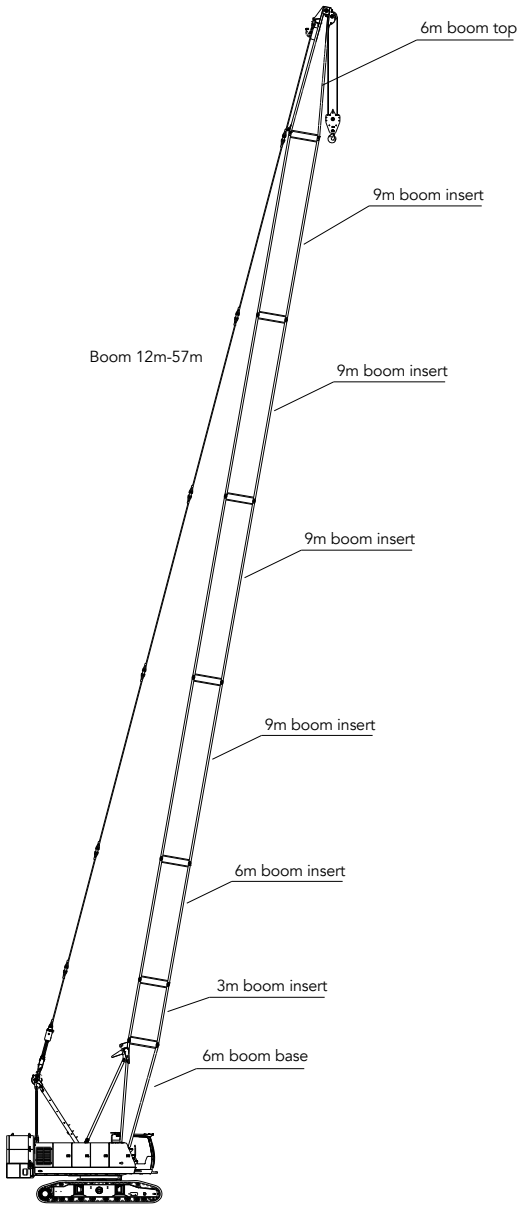
Configuration	Boom Conbination	Boom Length
FJ	Boom + Fixed Jib (single hook)	(24m~45m)+(9m~18m)
FJm	Boom + Fixed Jib (double hooks, load on main hook)	
FJa	Boom + Fixed Jib (double hooks, load on aux. hook)	

Note: The schematics above are reference for loading only.

H Configuration

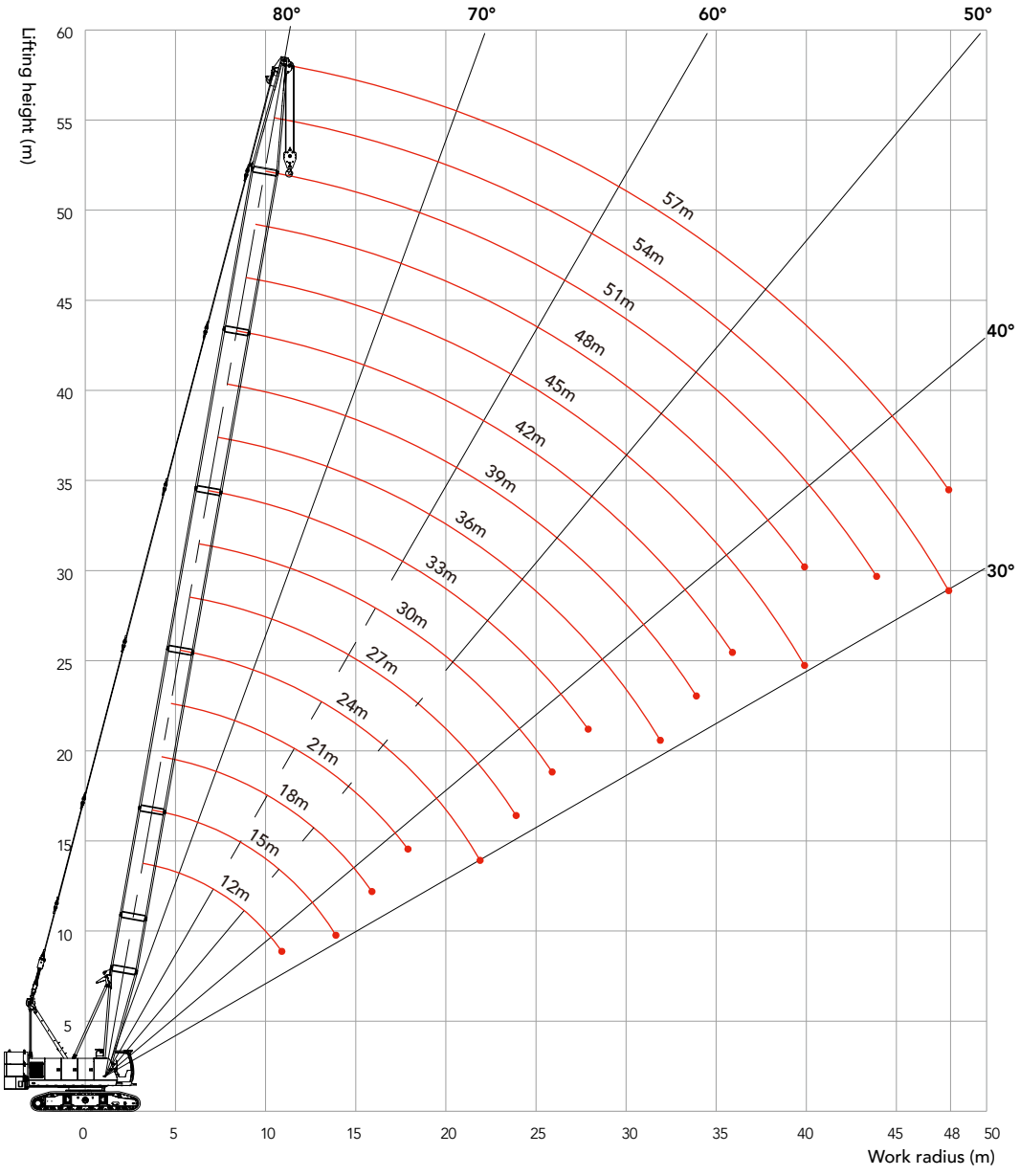


B	6m boom base
T	6m boom top
3m	3m boom insert
6m	6m boom insert
9m	9m boom insert



H Configuration

Working Radius in H Configuration



Unit: t

Load Chart of H Configuration

SCC750A-6 Crawler Crane – H Configuration_8+4

Boom 12~39m, Rear counterweight 8t, Carbody counterweight 4t

R(m) \ BL (m)	12	15	18	21	24	27	30	33	36	39	BL (m) \ R(m)
4	53.4	51.0									4
5	35.5	35.1	34.8	33.6							5
6	26.4	26.2	25.9	25.7	25.4	24.6					6
7	20.9	20.7	20.6	20.4	20.1	19.9	19.7	19.0			7
8	17.3	17.1	17.0	16.7	16.6	16.4	16.2	16.1	15.8	15.2	8
9	14.6	14.4	14.3	14.2	14.0	13.9	13.7	13.6	13.5	13.3	9
10	12.6	12.5	12.4	12.2	12.1	12.0	11.8	11.7	11.6	11.4	10
11	11.1	10.9	10.8	10.7	10.6	10.5	10.3	10.2	10.1	10.0	11
12		9.8	9.6	9.5	9.4	9.2	9.1	9.0	8.9	8.8	12
14		8.0	7.8	7.6	7.5	7.4	7.3	7.2	7.1	7.0	14
16			6.5	6.4	6.3	6.1	6.0	5.9	5.8	5.6	16
18				5.4	5.3	5.2	5.0	4.9	4.8	4.7	18
20					4.5	4.3	4.2	4.1	4.0	3.9	20
22					3.9	3.8	3.6	3.5	3.4	3.3	22
24						3.3	3.1	3.0	3.0	2.8	24
26							2.7	2.5	2.5	2.3	26
28								2.2	2.1	2.0	28
30									1.8	1.7	30
32									1.6	1.5	32
34										1.2	34

Unit: t

Load Chart of H Configuration

SCC750A-6 Crawler Crane – H Configuration_24+4

Boom 12~57m, Rear counterweight 24t, Carbody counterweight 4t

BL (m) / R(m)	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	BL (m) / R(m)
4	75.0	69.4															4
5	60.0	60.0	60.0	57.6													5
6	45.0	45.0	44.9	44.6	44.3	42.9											6
7	35.6	35.6	35.5	35.5	35.4	35.1	34.8	33.8									7
8	29.4	29.3	29.3	29.3	29.2	29.1	28.8	28.6	28.4	27.7	26.4						8
9	25.0	24.9	24.9	24.8	24.8	24.7	24.6	24.4	24.3	24.1	23.6	22.5	22.0				9
10	21.7	21.6	21.6	21.5	21.5	21.4	21.3	21.2	21.1	20.9	20.7	20.6	20.0	19.0	18.6		10
11	19.2	19.1	19.0	19.0	18.9	18.8	18.7	18.7	18.6	18.3	18.2	18.0	17.9	17.6	17.2	16.2	11
12		17.0	17.0	16.9	16.9	16.8	16.7	16.6	16.5	16.3	16.2	16.1	15.9	15.8	15.5	15.2	12
14		14.0	14.0	13.9	13.8	13.7	13.6	13.5	13.5	13.4	13.3	13.0	12.9	12.8	12.6	12.5	14
16			11.8	11.7	11.6	11.5	11.4	11.4	11.3	11.1	11.0	10.9	10.7	10.6	10.5	10.4	16
18				10.1	10.0	9.9	9.8	9.7	9.6	9.5	9.3	9.2	9.1	9.0	8.9	8.7	18
20					8.7	8.6	8.5	8.4	8.4	8.2	8.1	8.0	7.8	7.7	7.6	7.4	20
22					7.7	7.6	7.5	7.4	7.3	7.2	7.1	6.9	6.8	6.7	6.6	6.4	22
24						6.8	6.7	6.6	6.5	6.4	6.3	6.0	5.9	5.8	5.7	5.6	24
26							5.9	5.8	5.7	5.6	5.5	5.4	5.2	5.1	5.0	4.9	26
28								5.2	5.1	5.0	4.9	4.8	4.7	4.6	4.3	4.2	28
30									4.7	4.5	4.3	4.2	4.1	4.0	3.9	3.7	30
32									4.1	4.0	3.9	3.8	3.7	3.6	3.4	3.3	32
34										3.6	3.5	3.4	3.3	3.2	3.1	2.9	34
36											3.2	3.1	3.0	2.9	2.7	2.5	36
38												2.8	2.7	2.5	2.3	2.2	38
40												2.4	2.3	2.2	2.1	2.0	40
44														1.7	1.6	1.5	44
48															1.3	1.1	48

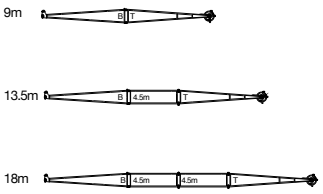
Note:

① . The actual rated capacity is the value after deducting the weight of lifting tools (such as lifting hook and steel ropes round the hooks and the boom top), from the rated load in the load charts.

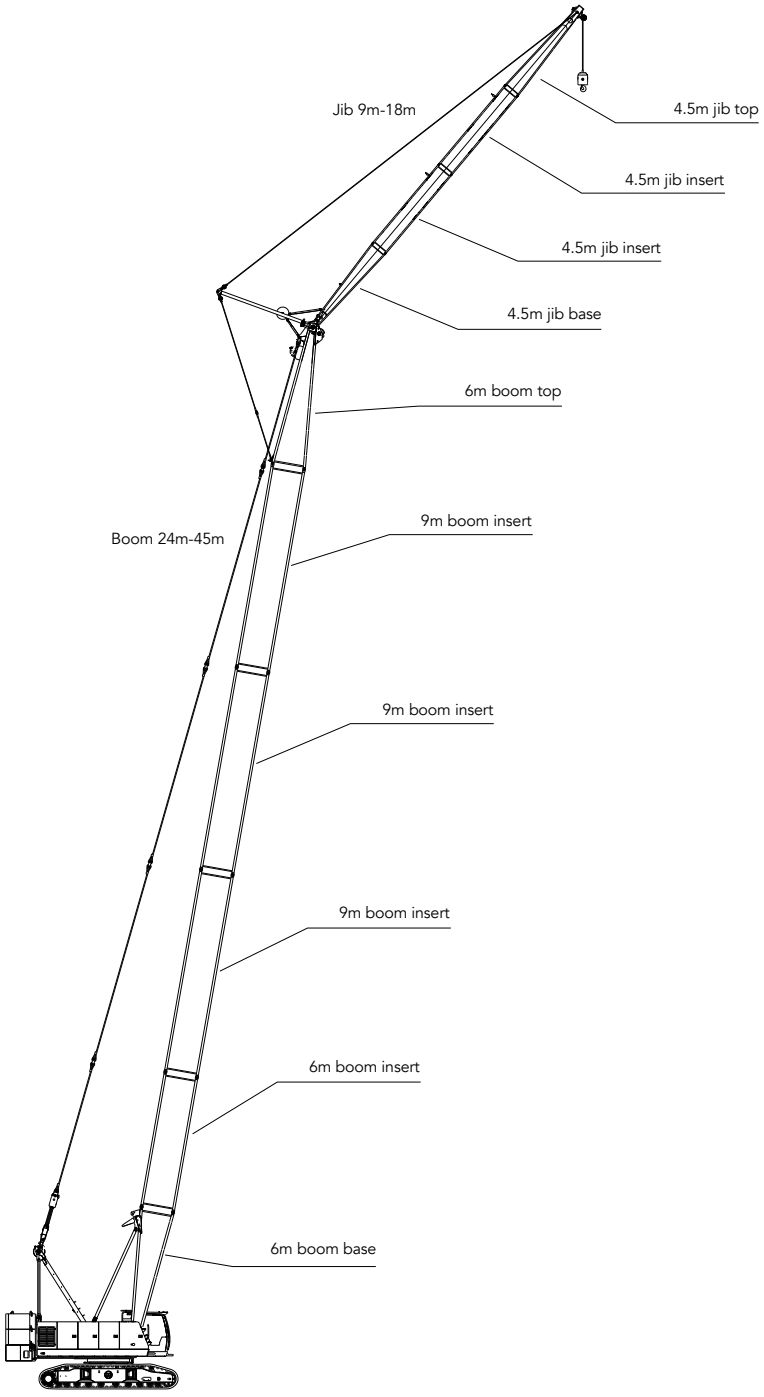
② . The rated capacity in the load charts is calculated when the crane is parking on firm and level ground and lifting the load slowly and steadily.

③ . See Operation Manual for load charts of HCm and HCa configurations.

FJ Configuration

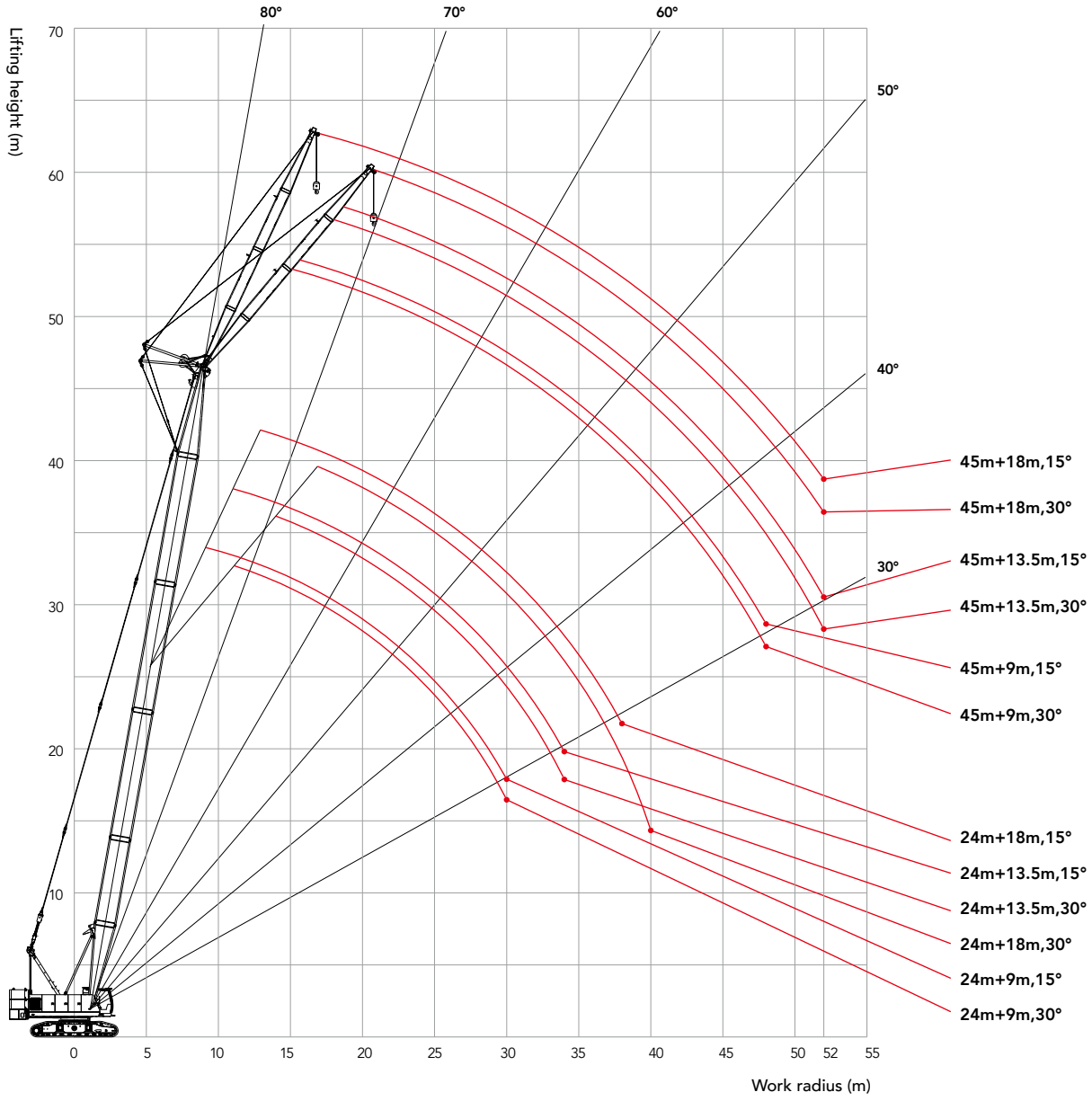


B	(4.5m)	jib base
T	(4.5m)	jib top
4.5m	(4.5m)	jib insert



FJ Configuration
(Longest boom+ jib: 45m+18m)

Working Radius in FJ Configuration



Unit: t

Load Chart of FJ Configuration

SCC750A-6 Crawler Crane – FJ Configuration 1/4

Boom 24m~45m, Jib 9m~18m, Rear counterweight 24t, Carbody counterweight 4t, without main hook

BL (m) / R(m)	24						27						BL (m) / R(m)
Jib length(m)	9		13.5		18		9		13.5		18		Jib length(m)
Boom to jib angle	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	Boom to jib angle
10	7.5						7.5						10
12	7.5	7.5	7.5				7.5	7.5	7.5				12
14	7.5	7.5	7.5	7.3	7.5		7.5	7.5	7.5		7.5		14
16	7.5	7.5	7.5	6.8	7.5		7.5	7.5	7.5	7.0	7.5		16
18	7.5	7.5	7.5	6.4	6.9	5.0	7.5	7.5	7.5	6.5	7.1	5.1	18
20	7.5	7.5	7.5	6.0	6.3	4.7	7.5	7.5	7.5	6.2	6.6	4.8	20
22	7.5	7.5	7.0	5.7	5.8	4.5	7.5	7.5	7.3	5.9	6.1	4.6	22
24	6.8	6.9	6.5	5.4	5.4	4.2	6.7	6.8	6.8	5.6	5.7	4.3	24
26	6.0	6.1	6.1	5.2	5.1	4.0	5.9	6.0	6.1	5.4	5.3	4.1	26
28	5.4	5.5	5.5	5.0	4.7	3.8	5.3	5.4	5.5	5.1	5.0	3.9	28
30	4.9	4.9	5.0	4.8	4.5	3.7	4.8	4.9	5.0	5.0	4.7	3.8	30
32			4.6	4.6	4.2	3.5	4.3	4.3	4.5	4.6	4.5	3.6	32
34			4.1	4.1	4.0	3.4			4.0	4.1	4.1	3.5	34
36					3.8	3.3			3.7	3.7	3.7	3.4	36
38					3.5	3.2				3.4	3.4	3.3	38
40						3.2					3.1	3.2	40

Unit: t

Load Chart of FJ Configuration

SCC750A-6 Crawler Crane – FJ Configuration 2/4													
Boom 24m~45m, Jib 9m~18m, Rear counterweight 24t, Carbody counterweight 4t, without main hook													
BL (m) / R(m)	30						33						BL (m) / R(m)
Jib length(m)	9		13.5		18		9		13.5		18		Jib length(m)
Boom to jib angle	15	30	15	30	15	30	15	30	15	30	15	30	Boom to jib angle
10													10
12	7.5						7.5						12
14	7.5	7.5	7.5		7.5		7.5	7.5	7.5				14
16	7.5	7.5	7.5	7.1	7.5		7.5	7.5	7.5	7.2	7.5		16
18	7.5	7.5	7.5	6.7	7.4	5.2	7.5	7.5	7.5	6.8	7.5		18
20	7.5	7.5	7.5	6.3	6.8	4.9	7.5	7.5	7.5	6.5	7.0	5.0	20
22	7.4	7.5	7.5	6.0	6.3	4.7	7.3	7.5	7.5	6.2	6.6	4.8	22
24	6.6	6.7	6.7	5.8	5.9	4.4	6.5	6.6	6.6	5.9	6.1	4.5	24
26	5.8	5.9	5.9	5.5	5.5	4.2	5.7	5.8	5.8	5.7	5.8	4.3	26
28	5.2	5.3	5.3	5.3	5.2	4.0	5.1	5.2	5.2	5.4	5.3	4.2	28
30	4.7	4.8	4.8	4.9	4.9	3.9	4.6	4.7	4.7	4.9	4.8	4.0	30
32	4.1	4.2	4.3	4.5	4.3	3.7	4.0	4.1	4.2	4.3	4.2	3.8	32
34	3.7	3.8	3.9	4.0	3.9	3.6	3.6	3.7	3.8	3.9	3.8	3.7	34
36		3.4	3.5	3.6	3.6	3.5	3.3	3.3	3.4	3.5	3.5	3.6	36
38			3.2	3.3	3.3	3.4	2.9	3.0	3.1	3.2	3.2	3.3	38
40			2.9	2.9	3.0	3.1			2.8	2.9	2.9	3.0	40
44					2.4	2.4					2.3	2.3	44

Unit: t

Load Chart of FJ Configuration

SCC750A-6 Crawler Crane – FJ Configuration 3/4

Boom 24m~45m, Jib 9m~18m, Rear counterweight 24t, Carbody counterweight 4t, without main hook

BL (m) / R(m)	36						39						BL (m) / R(m)
Jib length(m)	9		13.5		18		9		13.5		18		Jib length(m)
Boom to jib angle	15	30	15	30	15	30	15	30	15	30	15	30	Boom to jib angle
12	7.5						7.5						12
14	7.5	7.5	7.5				7.5	7.5	7.5				14
16	7.5	7.5	7.5		7.5		7.5	7.5	7.5		7.5		16
18	7.5	7.5	7.5	6.9	7.5		7.5	7.5	7.5	7.1	7.5		18
20	7.5	7.5	7.5	6.6	7.3	5.1	7.5	7.5	7.5	6.7	7.5	5.2	20
22	7.2	7.4	7.4	6.3	6.8	4.9	7.1	7.3	7.3	6.4	7.0	4.9	22
24	6.4	6.5	6.5	6.0	6.3	4.6	6.3	6.5	6.4	6.2	6.5	4.7	24
26	5.6	5.7	5.7	5.8	5.8	4.4	5.5	5.6	5.6	5.9	5.7	4.5	26
28	5.0	5.1	5.1	5.3	5.2	4.2	4.9	5.0	5.0	5.2	5.1	4.3	28
30	4.5	4.6	4.6	4.8	4.7	4.1	4.3	4.5	4.5	4.7	4.6	4.2	30
32	3.9	4.0	4.1	4.2	4.1	3.9	3.9	4.0	4.0	4.1	4.1	4.0	32
34	3.5	3.6	3.7	3.8	3.7	3.8	3.4	3.5	3.6	3.7	3.7	3.9	34
36	3.2	3.2	3.3	3.4	3.4	3.6	3.1	3.2	3.2	3.4	3.3	3.5	36
38	2.8	2.9	3.0	3.1	3.1	3.2	2.7	2.8	2.9	3.0	3.0	3.2	38
40	2.4	2.5	2.7	2.8	2.8	2.9	2.4	2.4	2.5	2.7	2.7	2.8	40
44			2.1	2.1	2.2	2.3		1.9	2.0	2.0	2.1	2.2	44
48					1.7	1.8			1.5	1.6	1.6	1.7	48
52											1.2	1.3	52

Unit: t

Load Chart of FJ Configuration

SCC750A-6 Crawler Crane – FJ Configuration 4/4

Boom 24m~45m, Jib 9m~18m, Rear counterweight 24t, Carbody counterweight 4t, without main hook

R(m) \ BL (m)	42						45						BL (m) \ R(m)
Jib length(m)	9		13.5		18		9		13.5		18		Jib length(m)
Boom to jib angle	15	30	15	30	15	30	15	30	15	30	15	30	Boom to jib angle
14	7.5						7.5						14
16	7.5	7.5	7.5				7.5	7.5	7.5				16
18	7.5	7.5	7.5	7.2	7.5		7.5	7.5	7.5	7.2	7.5		18
20	7.5	7.5	7.5	6.8	7.3		7.5	7.5	7.5	6.9	7.1		20
22	7.0	7.2	7.2	6.5	6.8	5.0	6.9	7.1	7.1	6.6	6.6	5.1	22
24	6.1	6.4	6.3	6.3	6.3	4.8	6.0	6.3	6.1	6.2	6.1	4.9	24
26	5.4	5.6	5.5	5.8	5.6	4.6	5.3	5.5	5.4	5.7	5.5	4.7	26
28	4.8	4.9	4.9	5.2	5.0	4.4	4.7	4.9	4.8	5.1	4.9	4.5	28
30	4.2	4.3	4.3	4.6	4.5	4.3	4.1	4.2	4.2	4.5	4.3	4.3	30
32	3.7	3.9	3.9	4.0	4.0	4.1	3.6	3.8	3.8	4.0	3.9	4.0	32
34	3.3	3.4	3.5	3.6	3.6	3.8	3.2	3.3	3.4	3.5	3.5	3.7	34
36	3.0	3.1	3.1	3.3	3.2	3.4	2.8	3.0	3.0	3.2	3.1	3.3	36
38	2.5	2.7	2.8	2.9	2.9	3.1	2.4	2.5	2.7	2.8	2.8	3.0	38
40	2.2	2.3	2.4	2.5	2.5	2.8	2.1	2.2	2.3	2.4	2.4	2.7	40
44	1.7	1.8	1.9	1.9	1.9	2.1	1.6	1.7	1.7	1.8	1.8	2.0	44
48			1.4	1.5	1.5	1.6	1.2	1.2	1.3	1.4	1.4	1.5	48
52					1.1	1.2			0.8	1.0	1.0	1.1	52

Note:

① . The actual rated capacity is the value after deducting the weight of lifting tools (such as lifting hook and steel ropes round the hooks and the boom top), from the rated load in the load charts.

② . 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.

③ . See Operation Manual for load charts of FJm and FJa configurations.

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— Agent information —

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