SANY®

SCC4000A

SANY Crawler Crane
400 Tons Lifting Capacity

Quality Changes the World

Max. lifting moment: 5500t·m
Longest boom: 84m
Longest boom +jib: 84m + 84m

www.sany.com.cn

Crawler Crane Series
SCC4000A

SCC4000A
SANY CRAWLER CRANE
400 TONS LIFTING CAPACITY

QUALITY CHANGES THE WORLD

Main Characteristics

> 03

Product Specification

Engine

- Model: Cummins QSM11-C400 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: 10.8L;
- Rated power: 298kW/1800rpm;
- Max. Torque: 1898N·m/1400rpm;
- Starter: 24V-8.0kW;
- Radiator: fin type aluminum plate core;
- Air cleaner: Dry type system with main filter element, safety element and resistance indicator;
- Throttle: Grip type hand throttle, electrically-controlled;
- Fuel filter: Replaceable paper element;
- Batteries: Four 12V×180Ah capacity batteries, connected in series and then in parallel;
- Fuel tank capacity: 800L.

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, LMI data, ground bearing pressure, control handle function, alarm information, failure self-diagnosis;
- Remote Monitoring System: newly developed APP can collect equipment status at any time anywhere. Online functions such as smart maintenance reminder, failure alarm, construction data feeding, one-click service request, equipment health management are available, which makes the information more transparent and instant;
- Remote Control System: all main mechanisms and assisting cylinders can be controlled through remote control box as an optional feature. The monitor can show data of engine and LMI to ensure smarter, easier and safer operation.

Hydraulic System

- Main pumps: five 125CC close piston pumps of variable displacement are adopted to provide oil supply for main actuators of main machine;
- Gear pump: two dual-gear pumps for boosting oil for close-circuit system, oil radiator, A/C control circuit;
- Control: closed main pump adopts electrical proportional bi-directional control; winch motor adopts limitless adjustable piston motor of variable displacement. The operating components are two cross electrically controlled handle, one dual-travel electrically controlled pedal to control various actuators proportionally;
- Way of cooling: air-cooled 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:
- Main/aux. load hoist, boom/jib hoist, swing and travel system: 33Mpa;
- Oil boosting system: 3.5 MPa;
- Flush system:0.5MPa;
- Hydraulic Tank Capacity:817L.

Main and Aux. Load Hoist Mechanism

- A variable hydraulic motor drives the planetary gear reducer to control the lifting and lowering of main hoists I and II. A good inching performance is provided. The highest speed can be realized through main hoist I and II. Synchronization function is designed. The largest parts of line is 36. Multiple layers of wire rope on fold-line drum can avoid messing rope. The gearbox is quiet and efficient, with longer service life and convenient fuel change.

Main Hoisting	Drum diameter	660mm
	Rope speed on the outermost work layer	0~135m/min
	Steel rope diameter	26mm
	Steel rope length of main hoist	800m
	Rated tension of single rope	15.7t
Main Hoisting Mechanism II	Drum diameter	660mm
	Rope speed on the outermost work layer	0~135m/min
	Steel rope diameter	26mm
	Steel rope length of main hoist II	800m
	Rated tension of single rope	15.7t

Product Specification

Boom/Jib/Superlift Hoist Mechanism

- Including: luffing mechanisms of the boom, jib and superlift;
- Drums with fold-line grooves are adopted for all luffing devices. Hydraulic motor drives the planetary gear reducer with excellent infinitely variable displacement to realize multi-functions.

Boom luffing mechanism	Drum diameter	641mm
	Rope speed on the outermost work layer	(0~65)×2m/min
	Steel rope diameter	26mm
	Steel rope length of boom luffing	560m
Jib luffing mechanism	Drum diameter	641mm
	Rope speed on the outermost work layer	0~105m/min
	Steel rope diameter	26mm
	Steel rope length of jib luffing	790m
Superlift mast Luffing	Drum diameter	641mm
	Rope speed on the outermost work layer	0~105m/min
	Steel rope diameter	26mm
	Steel rope length of superlift luffing	840m

Swing Mechanism

- Swing brake adopts wet, spring loaded, normally-closed brake, and braking through spring force;
- Swing system adopts closed system with free slipping function. It is featured in steady starting and control, and excellent inching function;
- Swing drive: external engaged swing drive with 360° swing range, and the max. swing speed is 1.0r/min. The max. drive pressure can reach 33MPa;
- Swing lock: cylinder lock can ensure the upperworks locked securely after work or during transport;
- Swing ring: three-row roller bearing.

Cab and Control

- Novel operator's cab with fashionable profile, nice interior and large window glass, which can tilt up by 20°to provide panorama view. 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 10.4-inch touch screen, two monitors, standard vibration handle, and man-machine interaction interface are more improved;
- 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 backing video, real-time monitoring of hook working, travel area, winch and wire rope reeving conditions.

Counterweight

- Counterweight include center counterweight, rear counterweight, superlift counterweight, and the details are listed below:

Name	Quantity	Length (m)	Width (m)	Height (m)	Unit Weight (t)
Carbody counterweight (2-drive)	2	6.34	1.72	0.60	20
Carbody counterweight tray	2	2.49	2.35	0.56	4
Carbody counterweight block	4	2.49	2.35	0.54	10
Rear Counterweight Tray	2	2.7	2.9	1.8	5
Rear Counterweight	14	2.49	2.35	0.54	10
Superlift Counterweight Tray	1	8.5	2.5	4.4	10
Superlift counterweight	20	2.49	2.35	0.54	10

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

Carbody

- The hydraulic cylinder drives power pin to be connected with track frame to facilitate the assembly and disassembly. Frame structures are welded by high-strength steel. Larger chassis design greatly improves the stability of the crane;
- There are two carbody counterweight options:
  2-drive: carbody counterweight 20tx2;
  4-drive: carbody counterweight tray 4tx2, counterweight block 10x4.

Crawler Assembly

- Track frame: each track frame is equipped with an independent travel driving device. A hydraulic travel motor drives the planetary gear reducer and realizes independent traveling through the transmission of driving wheel. The travel system is configured with high and low speeds: sufficient traction is provided in low speed to realize 100% pick and carry, while faster job-site transfer is possible in high travel speed. Infinite variable speed can be realized in travel driving system;
- Track shoe: it is manufactured by advanced casting techniques and materials with high strength and good wear resistance. After assembled on the machine, the tension can be adjusted by a hydraulic jack with shims used to secure the crawler position.

Operating Weight

- The operating weight is about 350t, including the Upperworks, lowerworks, rear counterweight of basic machine, center counterweight, 24m basic boom and 400t hook.

Ground Bearing Pressure

- The average ground pressure of machine with basic boom is 0.139MPa.

Gradeability

- The gradeability of machine with basic boom is 15%.

Operating Equipment Boom

- The boom is a spatial lattice structure with equal section areas for inserts and tapered section areas for both ends. With pipes welded together, and boom tip and root strengthened with steel plates, it can better transfer the load;
- The length of the boom ranges from that (24m) of the base boom to the maximum length (84m) and it can be increased progressively by 6m. For Wind Energy configuration above 90m, 3m boom insert is offered to make the max. length to 87m;
- Composition: boom base 12m×1, transitional insert 10.5m×1, connecting section (boom top) 1.5m×1, insert section 6m×2, and insert section 12m×4;
- The extension jib can install on the boom top.

Fixed Jib

- The fixed jib is a spatial lattice structure with equal section areas for inserts and tapered section areas for both ends. With pipes welded together, and boom tip and root strengthened with steel plates, it can better transfer the load;
- The length of fixed jib is 12m;
- The extension jib can install on the jib top.

Luffing Jib

- The luffing jib is a spatial lattice structure with equal section areas for inserts and tapered section areas for both ends. With pipes welded together, and boom tip and root strengthened with steel plates, it can better transfer the load;
- The length of the luffing jib ranges from 24m to 84m;
- Composition: jib base 10.5m×1, jib insert 6m×3, jib insert 12m×4, and jib top 7.5m×1;
- The extension jib can install on the jib top.

Superlift Device

- The superlift mast is a spatial lattice structure with equal section areas for inserts and tapered section areas for both ends. With pipes welded together, and boom tip and root strengthened with steel plates, it can better transfer the load;
- The superlift mast is 30m long;
- Composition: mast base 12m×1, insert section 6m×1, and mast top 12m×1.

Hook

- 4 kinds of hooks are available, and specific parameters are as follows:

Name of Hook	Max. Lifting Capacity	Quantity	Pulleys	Unit Weight (t)
400t hook	400t	1	2×9	10.9
130t hook	130t	1	5	2.98
50t hook	50t	1	2	2.4
16t ball hook	16t	1	-	0.9

Note: the 400t hook can be decomposed to 200t hook.

Safety Devices

Load Moment Limiter

- The proprietary load moment limiter independently -developed by Sany is adopted, which forms a network with other controllers through CAN bus line, so as to realize safe and reliable control. The load moment limiter can automatically detect the hoisting weight of the crane and the angle of the boom, and display the rated load capacity, actual load, working radius, and the allowable height of the hook;
- The load moment limiter system consists of a large-screen color display, a host computer, angle sensors, tension sensors, pressure sensors and other components.

Over-hoist Protection of the Main and Auxiliary Hooks

- It is used to prevent the over-hoist of the hook. When the lifting hook is raised to a certain height, the limit switch will start working, and hook will be automatically cut off from moving up by the control system. Meanwhile, the display and the buzzer will give alarms. At this moment, only hook lowering is allowed to prevent over-hoist action.

Over-release Protection Device of the Main and Auxiliary Hook

- It is used to prevent the wire rope over-release. When the wire rope is released to the last three wraps, the limit switch will start working, and the releasing of rope will be automatically stopped by the control system. Meanwhile, the display and the buzzer will give alarms. At this moment, only rope retraction is allowed to prevent over release action.

Assembly/Work Mode Switchover

- In Assembly Mode, some of the safety devices cannot function properly, such as jib limit, boom angle limit in LML, and overload, so as to facilitate the crane assembly;
- In Work Mode, all safety devices can function properly.

Boom Angle Limit

- When the boom/jib reaches upper limit angle, corresponding limit switch will be triggered, and the control system will automatically cut off the boom hoisting. Meanwhile, the display and the buzzer will give alarm. At this moment, boom/jib luffing winch won't hoist but it can still lower down;
- When the boom/jib reaches lower limit angle, the control system will automatically cut off the boom/jib from further lowering. Meanwhile, the display and the buzzer will give alarms. At this moment, boom/jib luffing winch won't be able to lower. This protection is automatically controlled by Load Moment Limiter.

Back-stop Device

- The boom and the superlift mast are respectively equipped with a pair of back-stop cylinders. The high pressure of the cylinder shall be overcome when the boom tilts backwards, and high pressure oil will be supplemented automatically when the boom swings forwards to increase the tension and prevent the boom vibration and shaking back;
- The jib rear mast is equipped with a pair of back-stop cylinders, while the jib front mast is equipped with a pair of pneumatic cylinders to prevent the mast from the backward inclination and tension of the jib luffing wire rope.

Brake of Hoisting Mechanism

- All hoisting brakes are spring loaded normally closed disc brakes, which are featured with large braking force, maintenance-free, safe and reliable use, and long service life.

CCTV Monitoring System

- It can be used to monitor the winding conditions of wire ropes of each hoisting mechanism, the conditions of superlift weight, and conditions around the equipment.

Fault Auto-Diagnosis System

- Faults can be conveniently eliminated based on the fault code.

Black Box

- It is able to record the operation data and machine movement, and analyze the remaining running conditions and service life of machine based on the actual performance.

Pharos

- It is mounted on the top of the boom/jib and alerts in air during night.

Safety Devices

Anemometer

- It is mounted on the top of the boom/jib to monitor the wind speed in real time and display relative data on the monitor.

Electronic Level Indicator

- It displays the tilting angle of the crane on the monitor in real time and protects the safe operation of the crane.

Lightning Protection Device

- It includes the lightning protection device and the surge protection device, which can effectively protect the electric system elements and workers from lightning.

Boom Angle Indicator

- It is a pendulum-type angle indicator fixed on one side of the boom base.

Hook Latch

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

Swing and Traveling Alarm

- During swing and traveling, the alarm horn will be blown per certain frequency to alert the personnel around the crane. The horn can be shut off through the display.

Function Lock

- The operation will be locked by pulling up the function locking lever on the right side of the seat inside the driver's cab or when the operator left the seat, after which no operating handles will be working so that improper operation caused by the body collision when getting on and off the crane can be avoided.

Regulation of Engine Power Ultimate Load and Stalling Protection

- The controller can monitor the engine power so as to prevent stalling.

Engine Status Monitoring

- It can show the engine coolant temperature, fuel volume, total working hours, engine oil pressure, engine speed, battery and voltage.

Emergent Operating System

- The independent emergent operating system is connected through connectors and electrical control cabinet. In emergency, the hoisting, luffing, swing and traveling can all be functional.

Remote Monitoring System

- It monitors and analyzes the operation data so as to realize remote diagnosis of faults and timely solution.

Emergent Stop

- In a sudden loss of control, press the emergent stop, and brakes will be applied on all actions such as hoisting, luffing, swing and traveling and engine stop.

B

SCC4000A
SANY CRAWLER CRANE
400 TONS LIFTING CAPACITY

QUALITY CHANGES THE WORLD

Technical Parameters

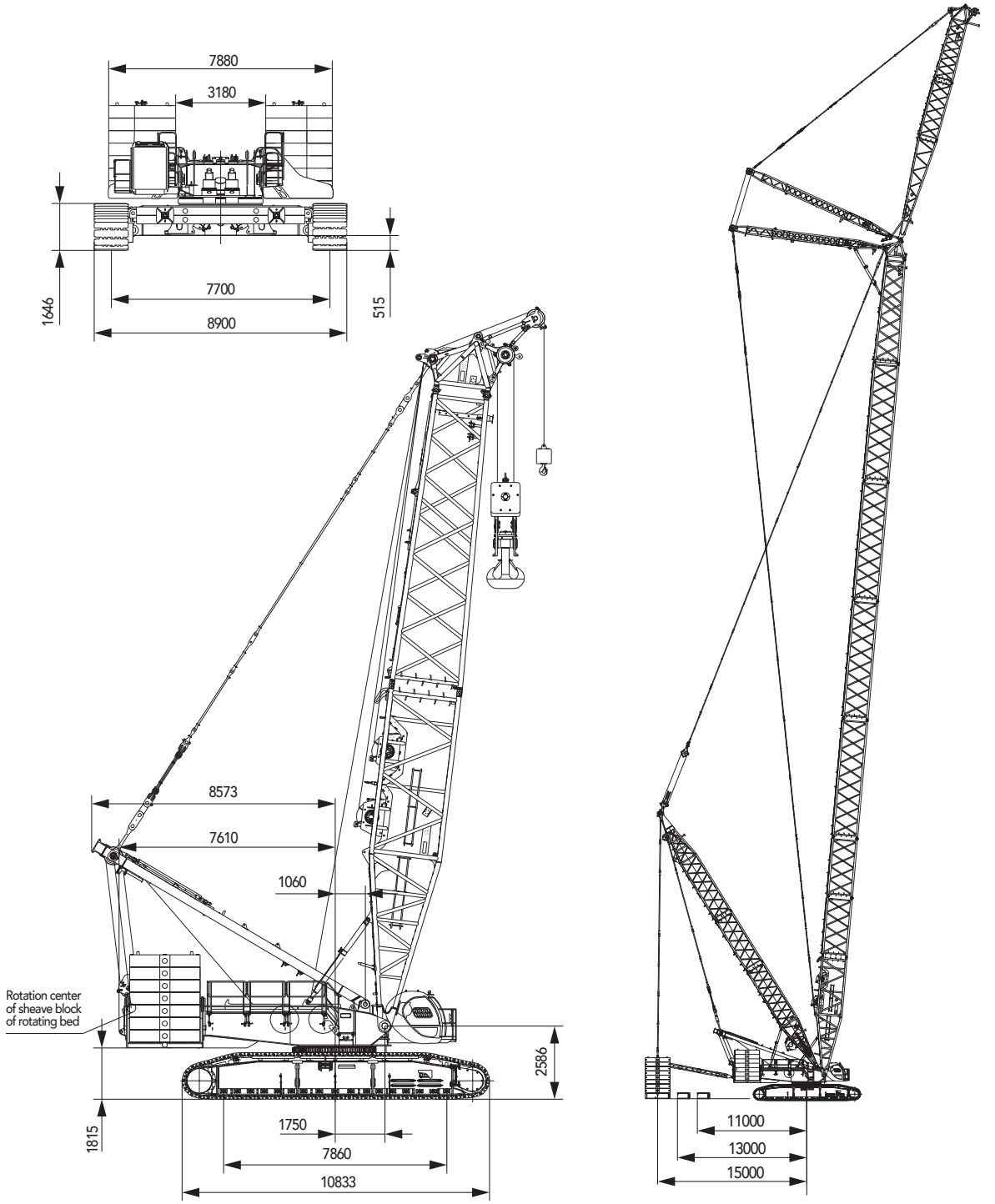
> 09

Major Performance & Specifications

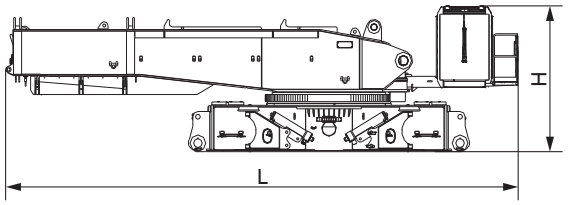
Major Performance & Specifications of SCC4000A		
Performance Indicators	Unit	Parameter
Max. rated lifting capacity	t	400
Max. rated lifting capacity (with superlift)	t	400
Max. rated lifting moment	t·m	2560
Max. rated lifting moment (with superlift)	t·m	5500
Boom length	m	24~84
Boom length (with superlift)	m	36~84
Length of mixed boom	m	48~96
Length of mixed boom (with superlift)	m	78~126
Length of luffing jib	m	24~72
Length of luffing jib (with superlift)	m	24~84
Combination of longest boom+jib (LJDB Configuration)	m	84+84
Heavy boom + fixed jib (longest)	m	84+12
Combined boom + fixed jib (longest)	m	99+12
Heavy boom + eagle tip (longest)	m	84+9
Angle of boom luffing	°	30~85
Angle of jib luffing	°	25~75
Max. speed of single rope of the main hoist (outermost work layer)	m/min	0~135
Max. speed of single rope of the main hoist II (outermost work layer)	m/min	0~135
Max. speed of single rope of the boom luffing (outermost work layer)	m/min	(0~65) ×2
Max. speed of single rope of the jib luffing (outermost work layer)	m/min	0~105
Max. speed of single rope of the superlift luffing (outermost work layer)	m/min	0~105
Slewing speed (no load)	r/min	0~1
Travel speed	km/h	0~1(high)/0~0.35(low)
Gradeability (with base boom, driver's cab backwards)	%	15
Rated output power of the engine	kW/r/min	298/1800
Average ground pressure of the track (base boom, 150t main body weight, 40t center weight, and 400t hook)	MPa	0.139
Rear weight of the main body	t	150 (without superlift)/130 (with superlift)
Superlift weight (including pallet)	t	230
Center weight	t	40(2-drive)/48(4-drive)
Max. unit transportation dimensions (L × W × H)	mm	12100×3000×3200
Max. unit transportation weight	t	45t

Unit: mm

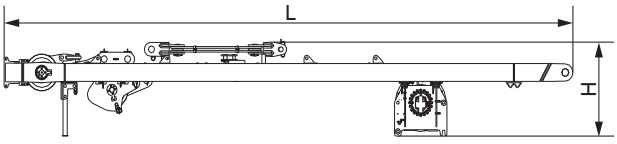
Outline Dimension



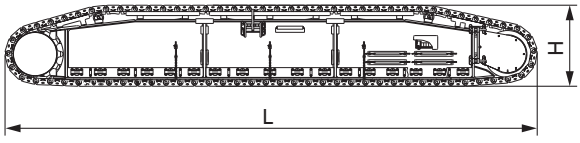
Transport Dimensions



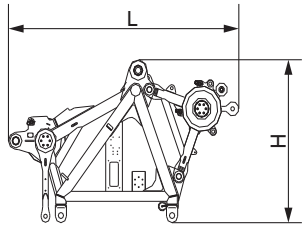
Basic crane	×1
Length(L)	12.1m
Width(W)	3.0m
Height(H)	3.2m
Weight	45t



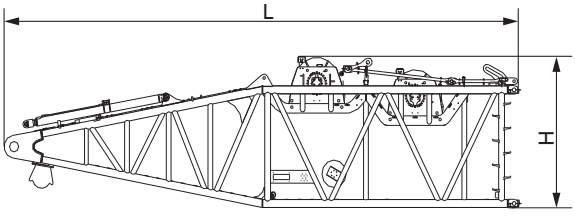
Boom luffing mast (with winch)	×1
Length (L)	11.19m
Width (W)	2.64m
Height (H)	1.64m
Weight	12.11t



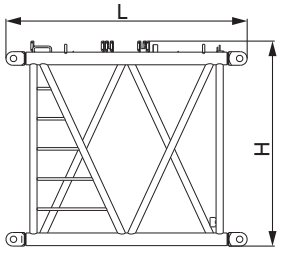
Track frame assembly	×2
Length (L)	10.83m
Width (W)	1.94m
Height (H)	1.65m
Weight (including two main hoisting winches)	36t



Boom tip (including pulley block)	×1
Length(L)	3.73m
Width(W)	2.67m
Height(H)	2.29m
Weight	3.85t

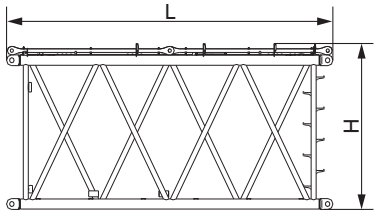


Boom base (with two main hoist winches)	×1
Length(L)	12.34m
Width(W)	3.00m
Height(H)	3.20m
Weight	18.78t

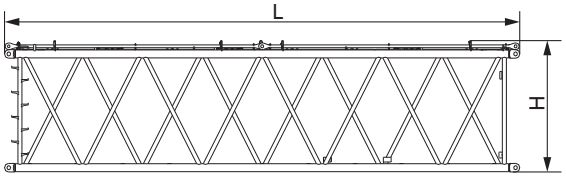


3m boom insert	×1
Length(L)	3.20m
Width(W)	3.00m
Height(H)	2.73m
Weight	1.67t

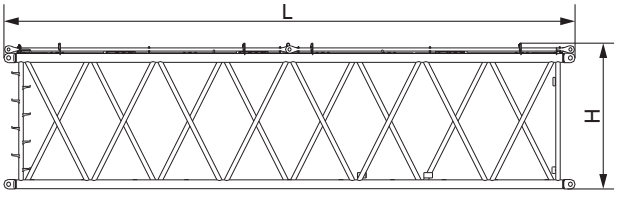
Transport Dimensions



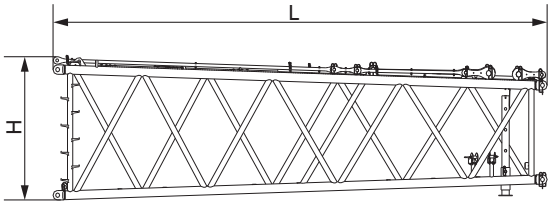
6m boom insert	×2
Length(L)	6.20m
Width(W)	3.00m
Height(H)	2.77m
Weight	3.24t



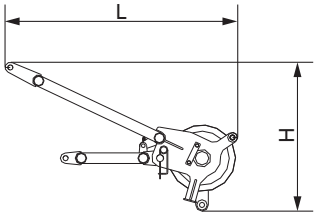
12m boom insert A	×2
Length(L)	12.20m
Width(W)	3.00m
Height(H)	2.77m
Weight	5.75t



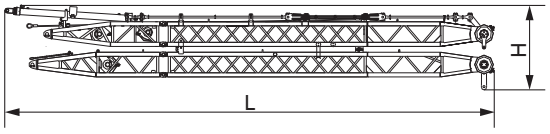
12m insert B	×2
Length(L)	12.20m
Width(W)	3.00m
Height(H)	2.77m
Weight	5.26t



Boom tapered insert	×1
Length(L)	10.7m
Width(W)	2.98m
Height(H)	2.74m
Weight	5.86t

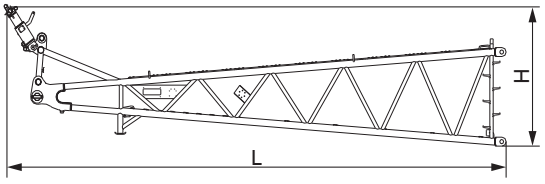


Extension jib	×1
Length(L)	2.32m
Width(W)	1.00m
Height(H)	0.82m
Weight	0.37t

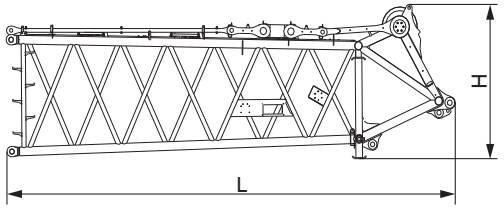


Front and rear masts of the luffing jib	×1
Length (L)	16.80m
Width (W)	3.10m
Height (H)	2.87m
Weight (with auxiliary luffing hoist)	10.8t

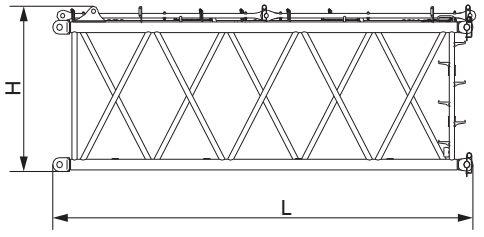
Transport Dimensions



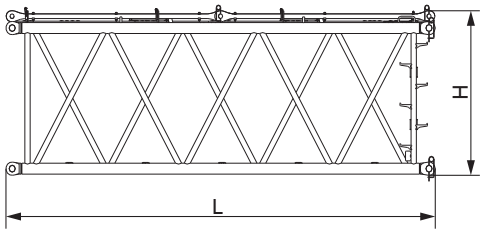
Luffing jib base	×1
Length(L)	11.28m
Width(W)	2.62m
Height(H)	2.78m
Weight	3.9t



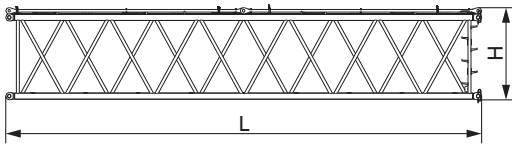
Luffing jib tip	×1
Length(L)	8.13m
Width(W)	2.54m
Height(H)	2.48m
Weight	4.34t



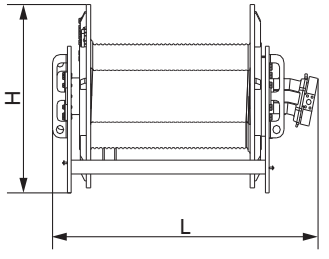
6m luffing jib insert A	×1
Length(L)	6.19m
Width(W)	2.82m
Height(H)	2.17m
Weight	1.97t



6m luffing jib insert B	×2
Length(L)	6.18m
Width(W)	2.82m
Height(H)	2.11m
Weight	1.91t

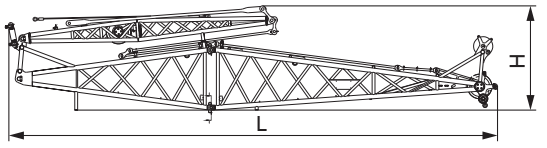


12m luffing jib insert	×4
Length(L)	12.18m
Width(W)	2.82m
Height(H)	2.11m
Weight	3.41t

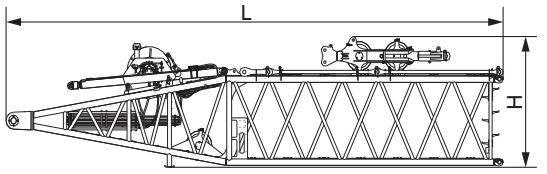


Jib luffing winch	×1
Length(L)	1.79m
Width(W)	1.22m
Height(H)	1.13m
Weight	4.55t

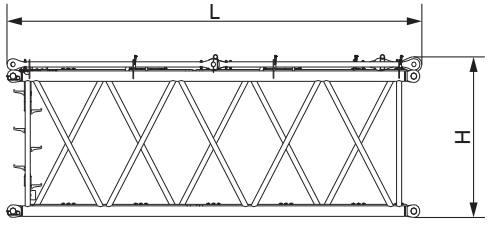
Transport Dimensions



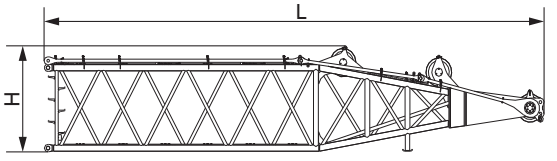
Fixed jib base	×1
Length(L)	12.72m
Width(W)	2.43m
Height(H)	2.71m
Weight	4.24t



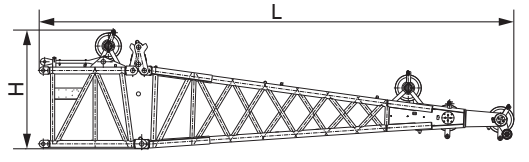
Superlift mast base (with winch)	×1
Length (L)	12.28m
Width (W)	2.96m
Height (H)	2.84m
Weight	13.5t



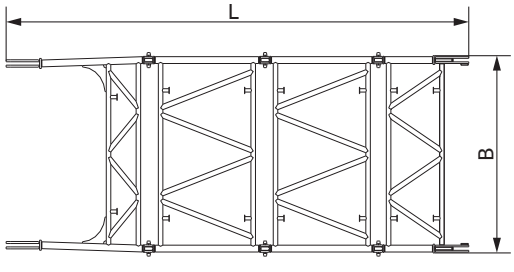
Superlift mast insert	×1
Length(L)	6.21m
Width(W)	2.96m
Height(H)	2.14m
Weight	2.8t



Superlift mast tip	×1
Length(L)	12.5m
Width(W)	2.94m
Height(H)	2.38m
Weight	8.5t

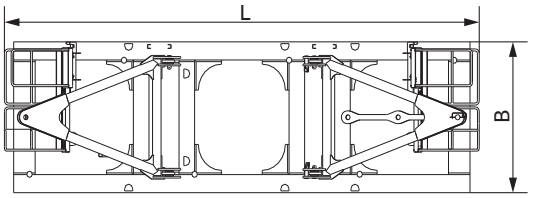


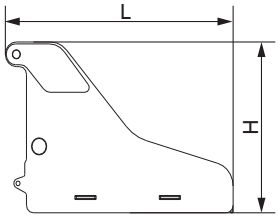
Eagle tip	×1
Length(L)	11.67m
Width(W)	2.67m
Height(H)	2.92m
Weight	7.26t

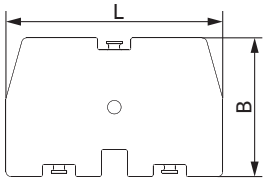


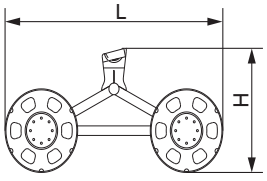
Superlift strut	×1
Length(L)	7.76m
Width(W)	2.93m
Height(H)	0.43m
Weight	1.9t

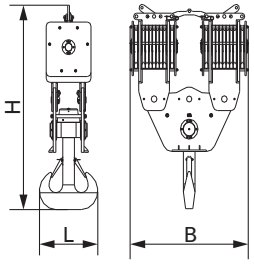
Transport Dimensions

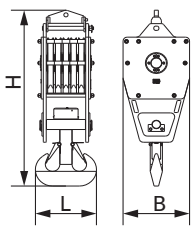












Superlift counterweight tray	×1
Length (L)	8.84m
Width (W)	2.50m
Height (H)	1.67m
Weight	10.3t

Rear counterweight tray	×2
Length(L)	2.70m
Width(W)	2.90m
Height(H)	1.80m
Weight	5t

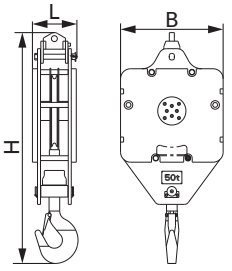
10t counterweight block	×34
Length(L)	2.49m
Width(W)	2.35m
Height(H)	0.54m
Weight	10t

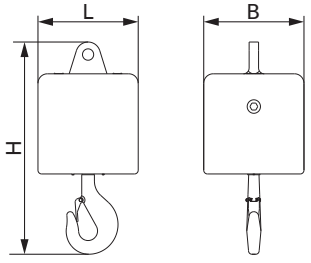
Trolley	×1
Length(L)	3.30m
Width(W)	2.00m
Height(H)	1.61m
Weight	1.9t

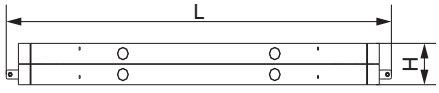
400T hook	×1
Length(L)	1.33m
Width(W)	2.69m
Height(H)	4.07m
Weight	10.9t

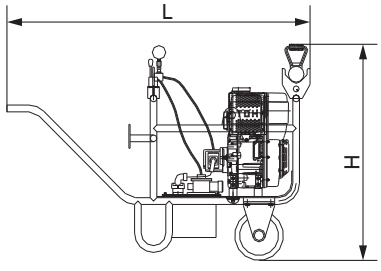
130T hook	×1
Length(L)	0.75m
Width(W)	0.82m
Height(H)	2.28m
Weight	1.92t

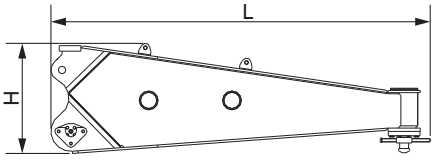
Transport Dimensions











50T hook	×1
Length(L)	0.45m
Width(W)	1.02m
Height(H)	2.30m
Weight	1.7t

16T ball hook	×1
Length(L)	0.53m
Width(W)	0.53m
Height(H)	1.10m
Weight	0.9t

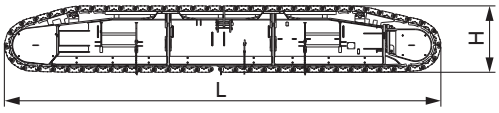
Center counterweight	×1
Length(L)	6.34m
Width(W)	1.72m
Height(H)	0.60m
Weight	20t

Portable power plant	×1
Length(L)	1.55m
Width(W)	0.70m
Height(H)	1.09m
Weight	0.2t

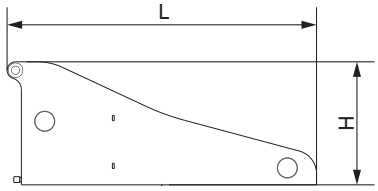
Side outrigger	×2
Length(L)	3.42m
Width(W)	0.99m
Height(H)	0.78m
Weight	1.1t

Transport Dimensions

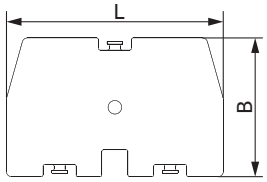
Note: the following parts are 4-drive crawlers and additional parts for this configuration.



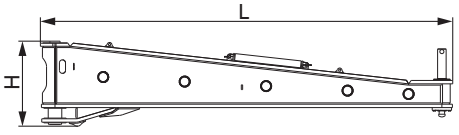
Crawler Assembly	×2
Length(L)	11.05m
Width(W)	1.90m
Height(H)	1.69m
Weight	37.5t



Carbody counterweight tray	×2
Length(L)	2.70m
Width(W)	2.90m
Height(H)	1.10m
Weight	4t



10t counterweight block	×4
Length(L)	2.49m
Width(W)	2.35m
Height(H)	0.54m
Weight	10t

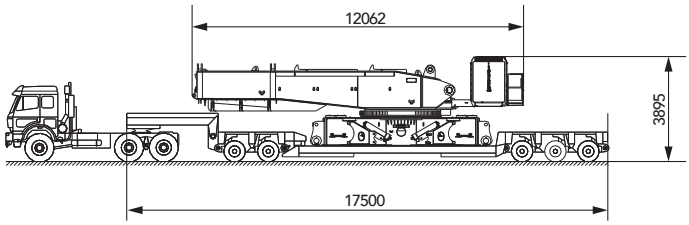


Front boom erection outrigger	×2
Length(L)	6.08m
Width(W)	0.51m
Height(H)	1.26m
Weight	3.15t

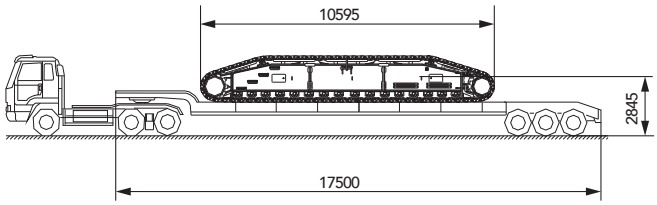
Note:
1. The dimension listed is schematic, which is not proportional. All the dimensions are designed values without packing.
2. The dimensions are subject to deviation due to manufacturing tolerances.

Transport Plan

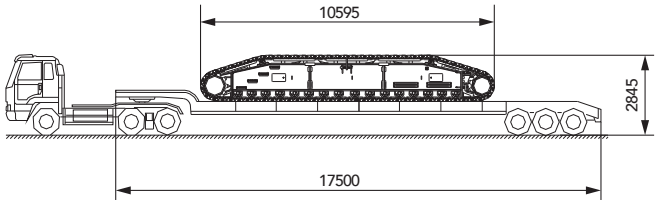
Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 0.576m, Rated load 60t
Transport weight	▪ 45t
Part	▪ Rotating bed ▪ Carbody
Truckload	▪ 1



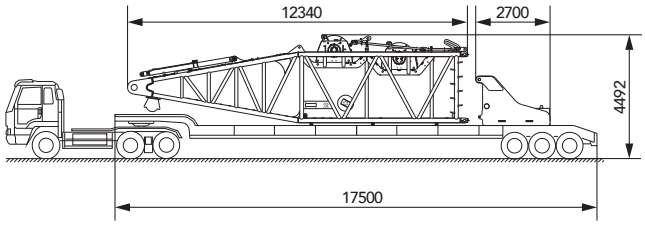
Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 36t
Part	▪ Track frame assembly
Truckload	▪ 1



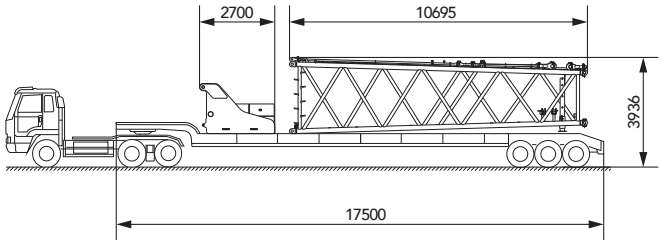
Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 36t
Part	▪ Track frame assembly
Truckload	▪ 1



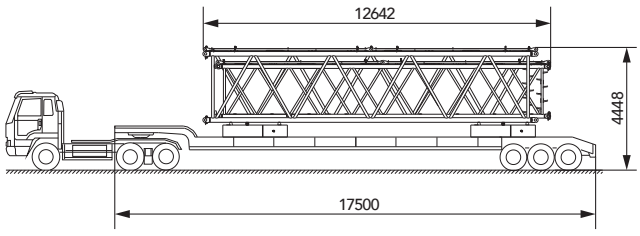
Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 33.78t
Part	▪ Boom base, ▪ 10t counterweight block ×1, ▪ rear counterweight tray
Truckload	▪ 1+1+1



Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 30.86t
Part	▪ Boom top, ▪ 10t counterweight block, ▪ rear counterweight tray
Truckload	▪ 1+2+1

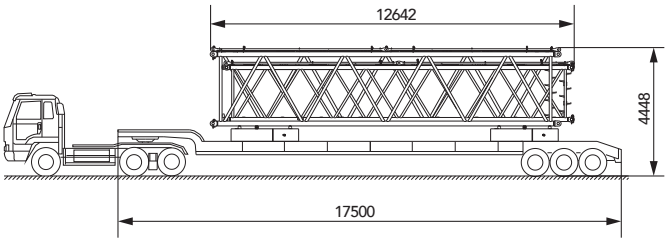


Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 29.16t
Part	▪ Boom insert A 12m, ▪ 12m luffing jib insert, ▪ 10t counterweight block
Truckload	▪ 1+1+2

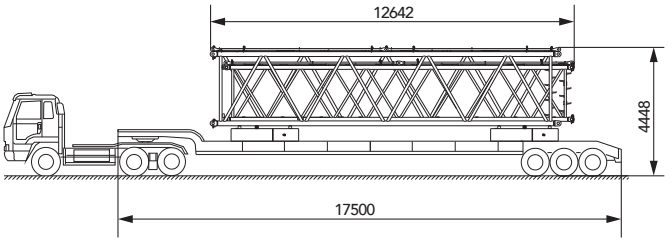


Transport Plan

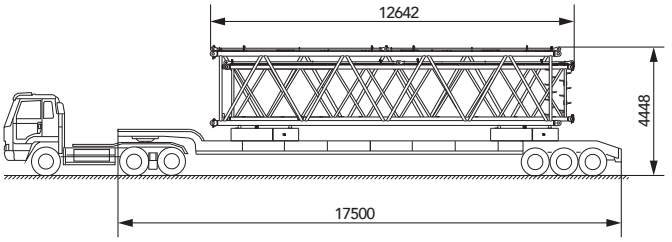
Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 29.16t
Part	▪ Boom insert A 12m, ▪ 12m luffing jib insert, ▪ 10t counterweight block
Truckload	▪ 1+1+2



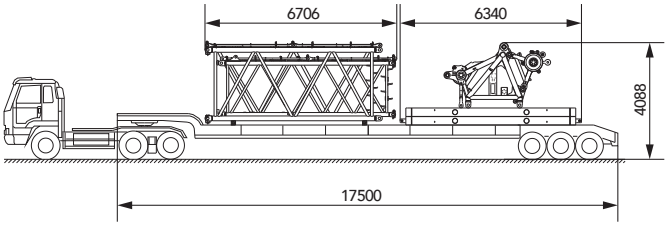
Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 35.93t
Part	▪ Boom insert B 12m, ▪ 12m luffing jib insert, Eagle tip, ▪ 10t counterweight block
Truckload	▪ 1+1+1+2



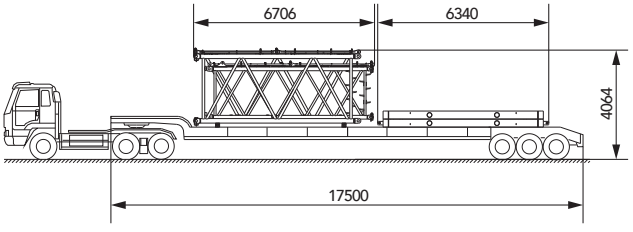
Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 30.89t
Part	▪ Boom insert B 12m, ▪ 12m luffing jib insert, Eagle tip, ▪ 10t counterweight block
Truckload	▪ 1+1+2+2



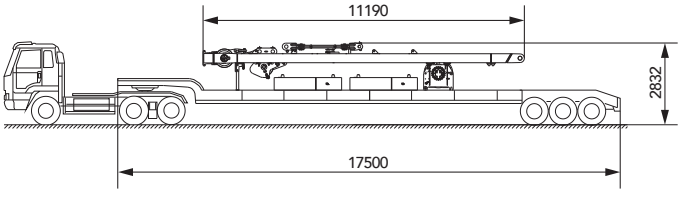
Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 29t
Part	▪ 6m main boom, 6m jib B, ▪ center counterweight block, ▪ connecting tip and sheave block
Truckload	▪ 1+1+2+1



Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 36.05
Part	▪ 6m main boom, 6m jib B, ▪ center counterweight block, ▪ 400t hook block
Truckload	▪ 1+1+2+1

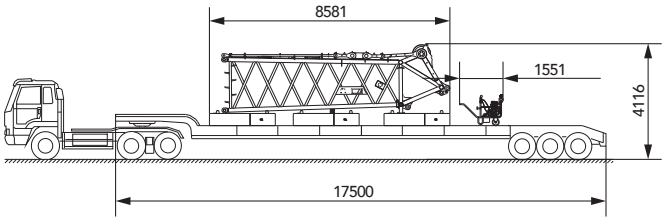


Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 32.11t
Part	▪ Boom luffing mast and boom luffing winch, ▪ 10t counterweight block
Truckload	▪ 1+2

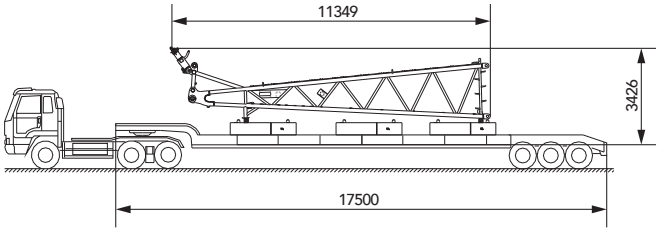


Transport Plan

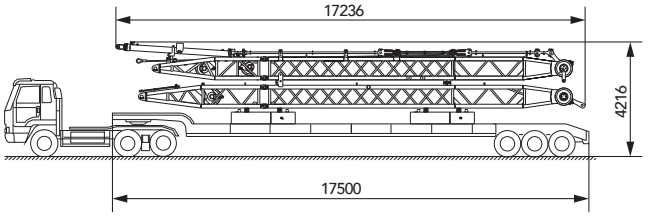
Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 34.54t
Part	▪ Jib top, ▪ 10t counterweight block, ▪ portable power plant
Truckload	▪ 1+3+1



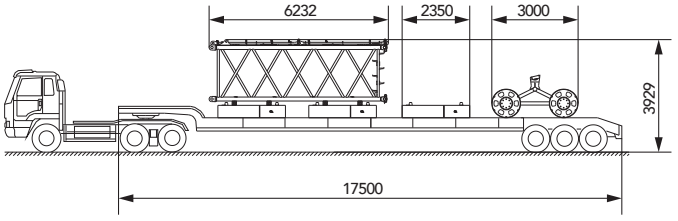
Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 33.9t
Part	▪ Jib base, ▪ 10t counterweight block
Truckload	▪ 1+3



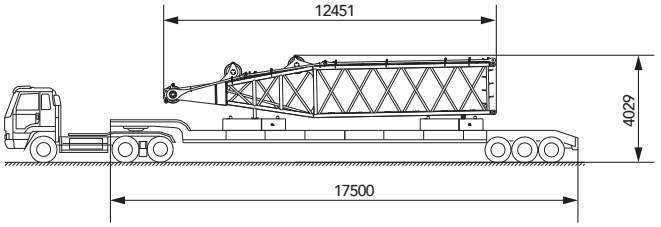
Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 30.8t
Part	▪ Front and rear strut of luffing jib, ▪ 10t counterweight block
Truckload	▪ 1+2



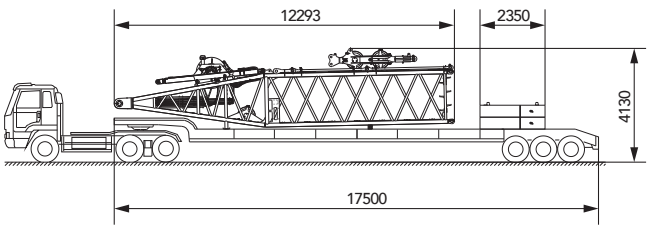
Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 33.87t
Part	▪ 6m jib A, ▪ 10t counterweight block, trolley
Truckload	▪ 1+3+1



Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 35.76t
Part	▪ Superlift mast top, ▪ 10t counterweight blocks, ▪ eagle tip
Truckload	▪ 1+2+1

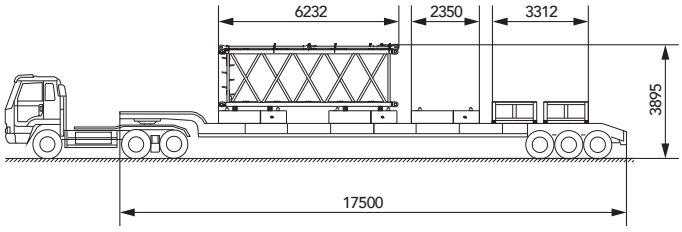


Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 33.5t
Part	▪ Superlift mast base, ▪ 10t counterweight blocks
Truckload	▪ 1+2

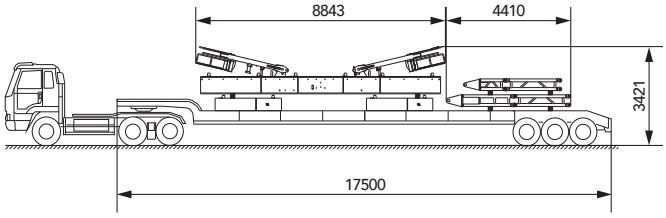


Transport Plan

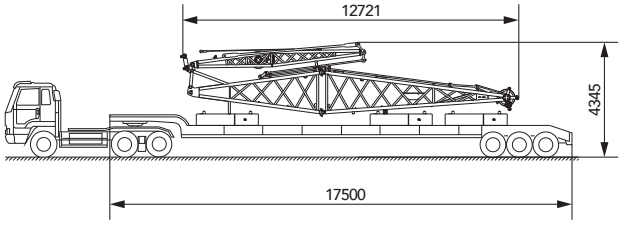
Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 33.8t
Part	▪ Superlift mast insert, ▪ 10t counterweight block, ▪ packing cases
Truckload	▪ 1+2+2



Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 32.2t
Part	▪ Superlift counterweight tray, ▪ 10t counterweight block, ▪ superlift strut
Truckload	▪ 1+1+2

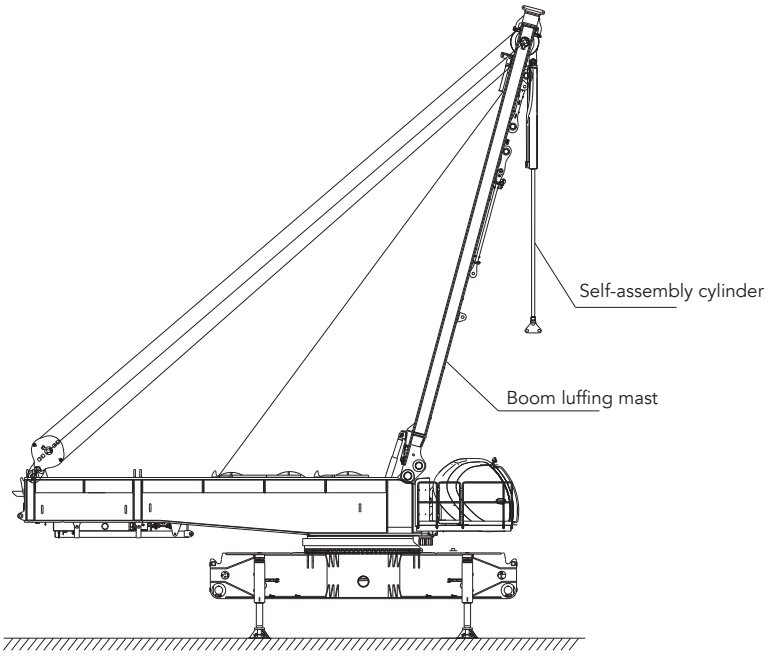


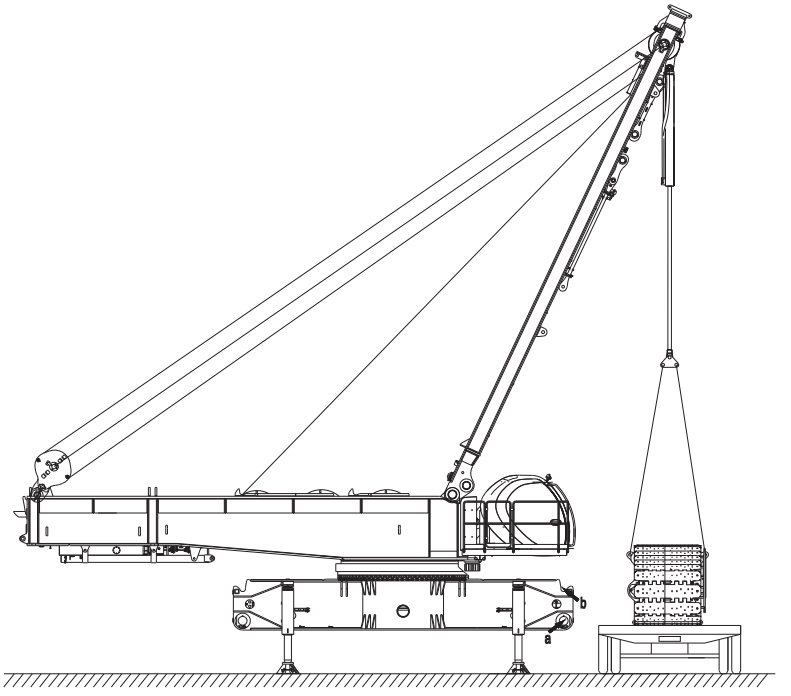
Trailer	▪ Length 17.5m,Width 2.5m, ▪ Height 1.2m, Rated load 35t
Transport weight	▪ 34.24t
Part	▪ Fixed jib base, ▪ 10t counterweight block
Truckload	▪ 1+3



Self-Assembly Plan

Track frame self-assembly





C

SCC4000A
SANY CRAWLER CRANE
400 TONS LIFTING CAPACITY

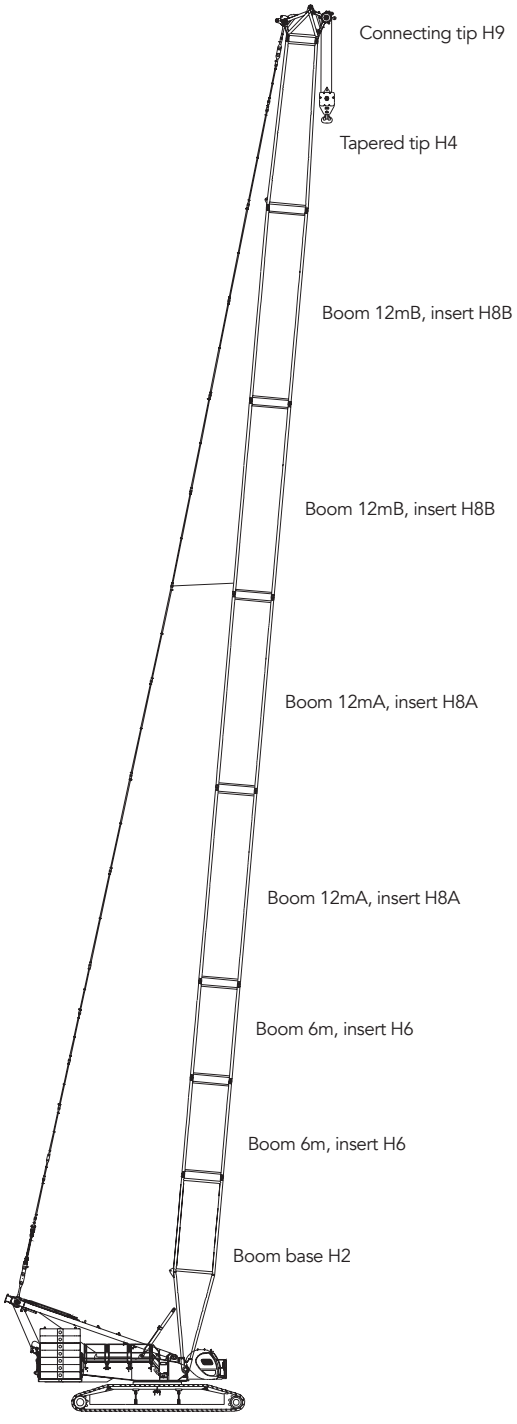
QUALITY CHANGES THE WORLD

Cofigurations

H Configuration

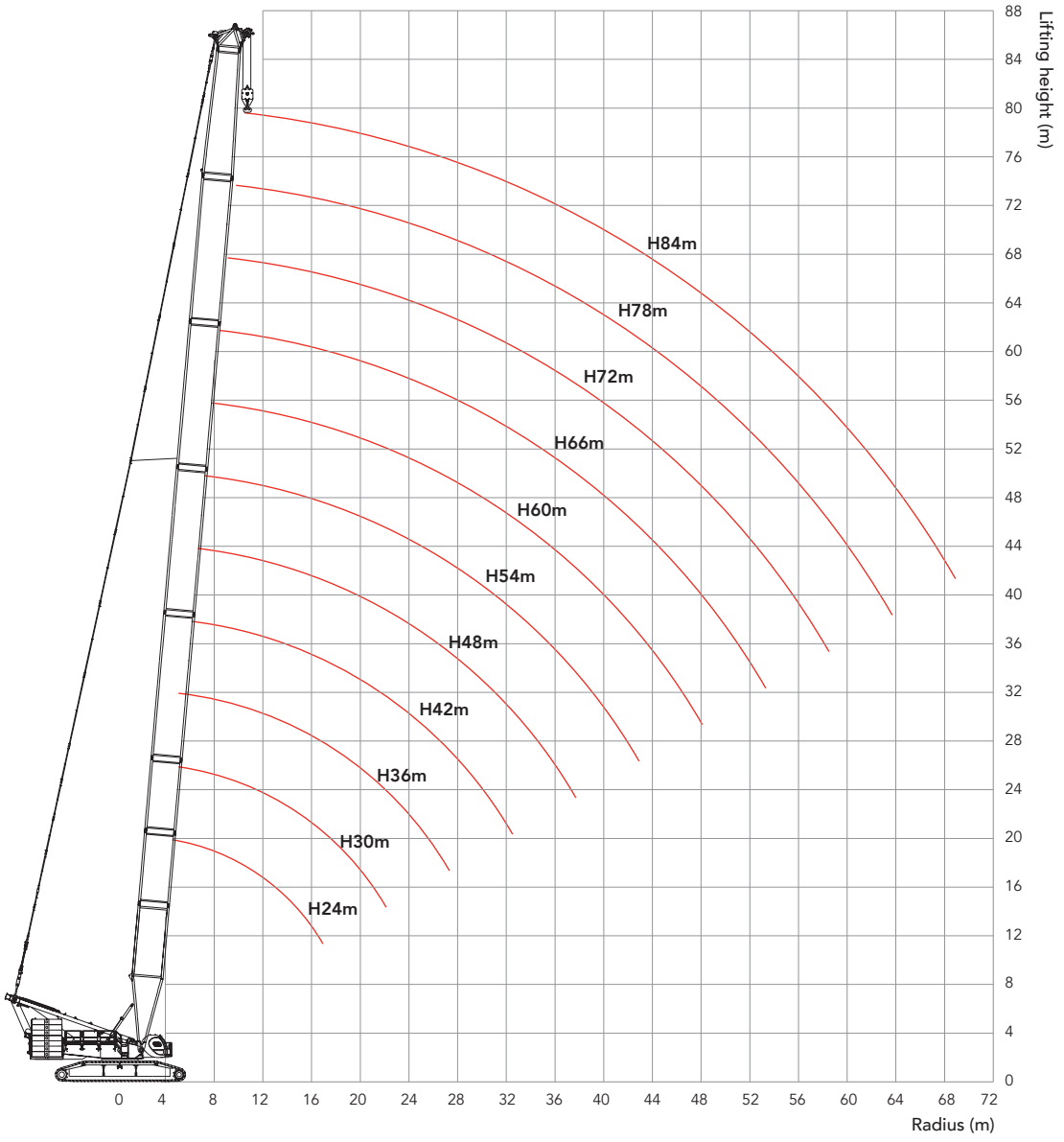
Boom Combination in H			
Boom length (m)	Insert		
	6 m	12mA	12mB
24	—	—	—
30	1	—	—
36	2	—	—
42	1	1	—
48	2	1	—
54	1	2	—
60	2	2	
66	1	2	1
72	2	2	1
78*	1	2	2
84*	2	2	2

Mid-suspension cable must be used for 78m and 84m, the configurations marked with *, otherwise, there is danger of boom breaking.
Note: the configurations with 78m boom and above must erect from side with side outriggers, otherwise the crane may tip over.



H (24m-84m)

H Work Radius



Unit: t

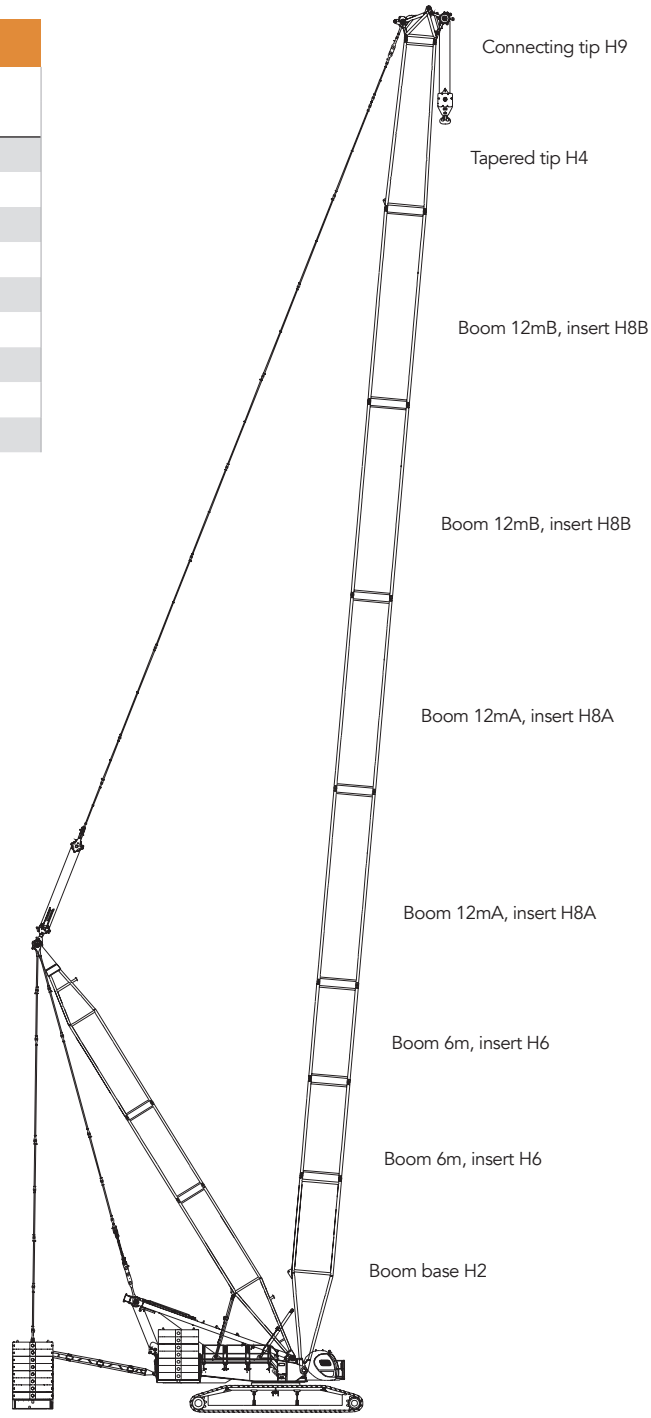
Load Chart of H Configuration

SCC4000A-H Configuration												
Boom length 24-84m, rear counterweight 150t, central counterweight 40t												
Radius (m)	24	30	36	42	48	54	60	66	72	78	84	Radius (m)
7	400	373	343									7
8	340	315	293	273								8
9	291	272	255	240	226	213						9
10	254	239	225	213	202	191	181					10
11	220	213	202	191	182	173	165	157	150			11
12	192	191	182	174	165	158	151	144	138	132	126	12
14	152	152	151	146	139	134	128	123	118	113	109	14
16	125	125	125	124	120	115	111	107	102	98.5	94.6	16
18	106	106	105	105	104	101	96.9	93.5	89.9	86.7	83.3	18
20	91.2	91.3	90.9	90.5	89.8	89.1	85.7	82.9	79.7	76.9	73.9	20
22	79.5	79.8	79.5	79.2	78.5	77.9	76.5	74.1	71.2	68.8	66	22
24		70.6	70.4	70.1	69.4	68.8	68	66.6	64	61.8	59.3	24
26		62.9	62.8	62.6	61.9	61.4	60.6	60.2	57.8	55.9	53.5	26
28		56.5	56.4	56.2	55.7	55.1	54.4	53.9	52.5	50.7	48.5	28
30			51	50.9	50.3	49.8	49.1	48.6	47.8	46.1	44.1	30
32			46.4	46.2	45.7	45.2	44.5	44.1	43.3	42.1	40.2	32
34				42.2	41.7	41.2	40.5	40.1	39.3	38.5	36.7	34
36				38.7	38.2	37.7	37	36.6	35.8	35.3	33.5	36
38				35.5	35	34.6	33.9	33.5	32.7	32.3	30.7	38
40					32.2	31.8	31.1	30.8	30	29.5	28.1	40
44					27.4	27.1	26.4	26	25.3	24.8	23.6	44
48						23.1	22.5	22.2	21.4	20.9	19.8	48
52							19.2	18.9	18.1	17.7	16.6	52
56								16.1	15.4	14.9	13.8	56
60									13	12.5	11.3	60
64									10.9	10.5	9.1	64
68										8.6	7.2	68
72											5.5	72

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

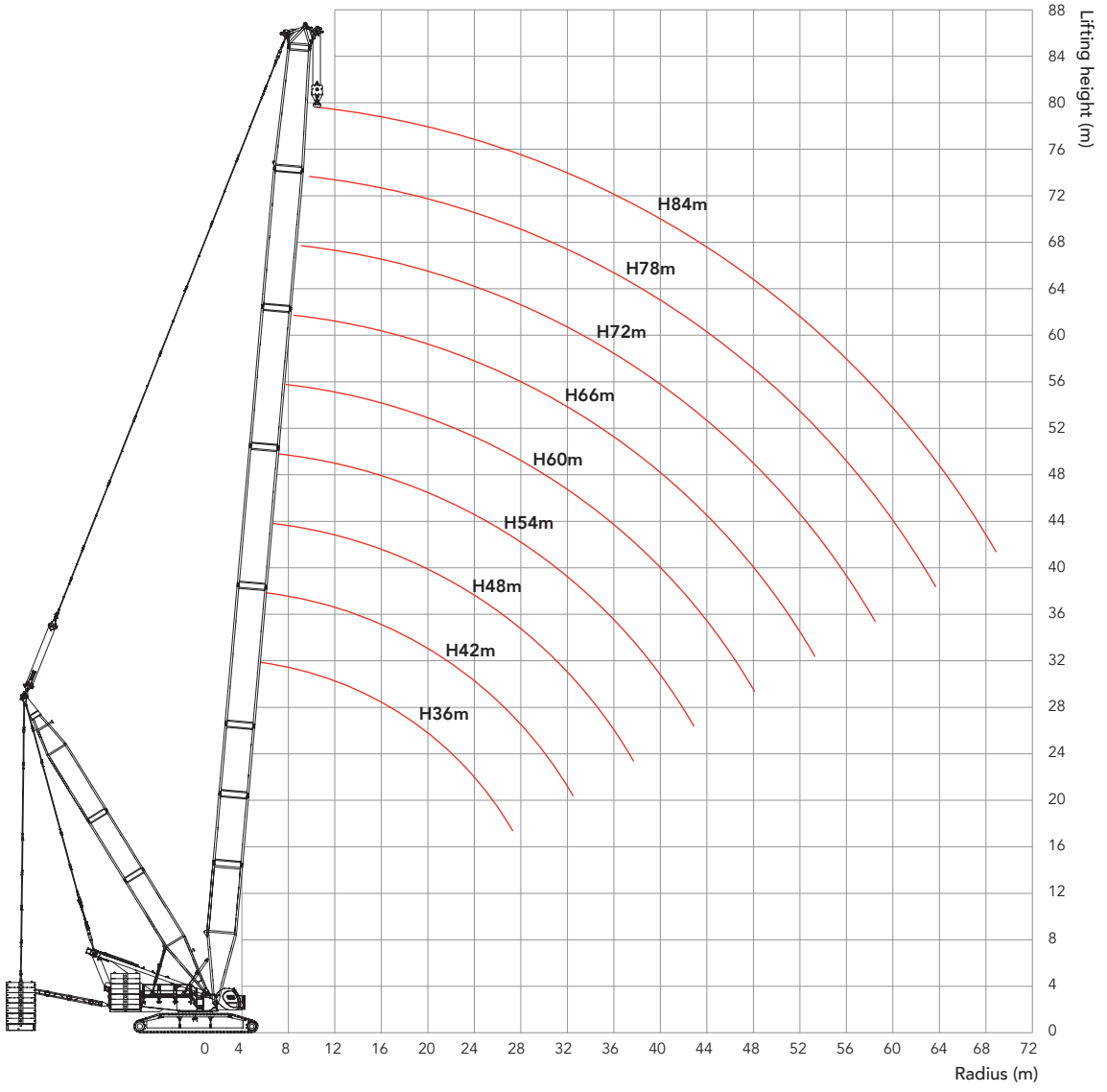
HDB Configuration

HDB Boom Combination			
Boom length (m)	Insert		
	6 m	12mA	12mB
36	2	—	—
42	1	1	—
48	2	1	—
54	1	2	—
60	2	2	
66	1	2	1
72	2	2	1
78	1	2	2
84	2	2	2



HDB (36m-84m)

Working Radius in HDB



Unit: t

Load Chart of HDB

SCC4000A - HDB Configuration (with superlift)										
Boom length 36-84m, superlift mast 30m, superlift radius 15m, superlift counterweight 0-230t, rear counterweight 130t, central counterweight 40t										
Radius (m)	36	42	48	54	60	66	72	78	84	Radius (m)
7	400									7
8	400	400								8
9	400	400	400	380						9
10	400	400	400	380	332					10
11	400	400	400	380	332	306	258			11
12	400	400	400	380	332	308	258	215	185	12
14	400	400	400	380	332	307	258	215	185	14
16	352	350	349	347	345	308	259	215	185	16
18	310	309	308	306	304	303	259	215	185	18
20	277	276	275	274	272	271	259	216	185	20
22	250	249	248	247	246	245	243	216	185	22
24	228	227	226	225	224	223	221	215	185	24
26	209	208	207	206	205	204	203	202	184	26
28	192	191	191	190	189	188	187	186	184	28
30	177	176	175	175	174	173	172	172	171	30
32	163	163	162	161	161	160	159	159	158	32
34		151	150	150	149	149	148	147	146	34
36		141	140	140	139	138	138	137	136	36
38		132	131	131	130	130	129	128	127	38
40			123	123	122	122	121	120	119	40
44			109	109	108	108	107	107	106	44
48				97.6	97	96.7	96	95.5	94.7	48
52					87.6	87.3	86.6	86.2	85.4	52
56						79.3	78.6	78.2	77.4	56
60							71.7	71.4	70.6	60
64							65.8	65.4	64.7	64
68								60.1	59.4	68
72									54.8	72

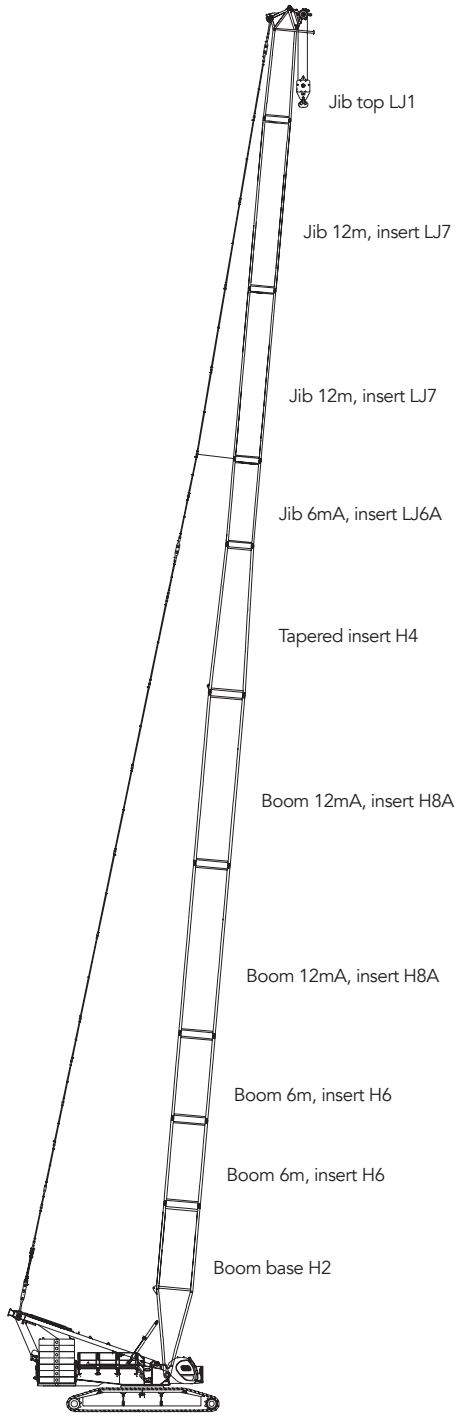
Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

HJ Configuration

Boom Combination in HJ

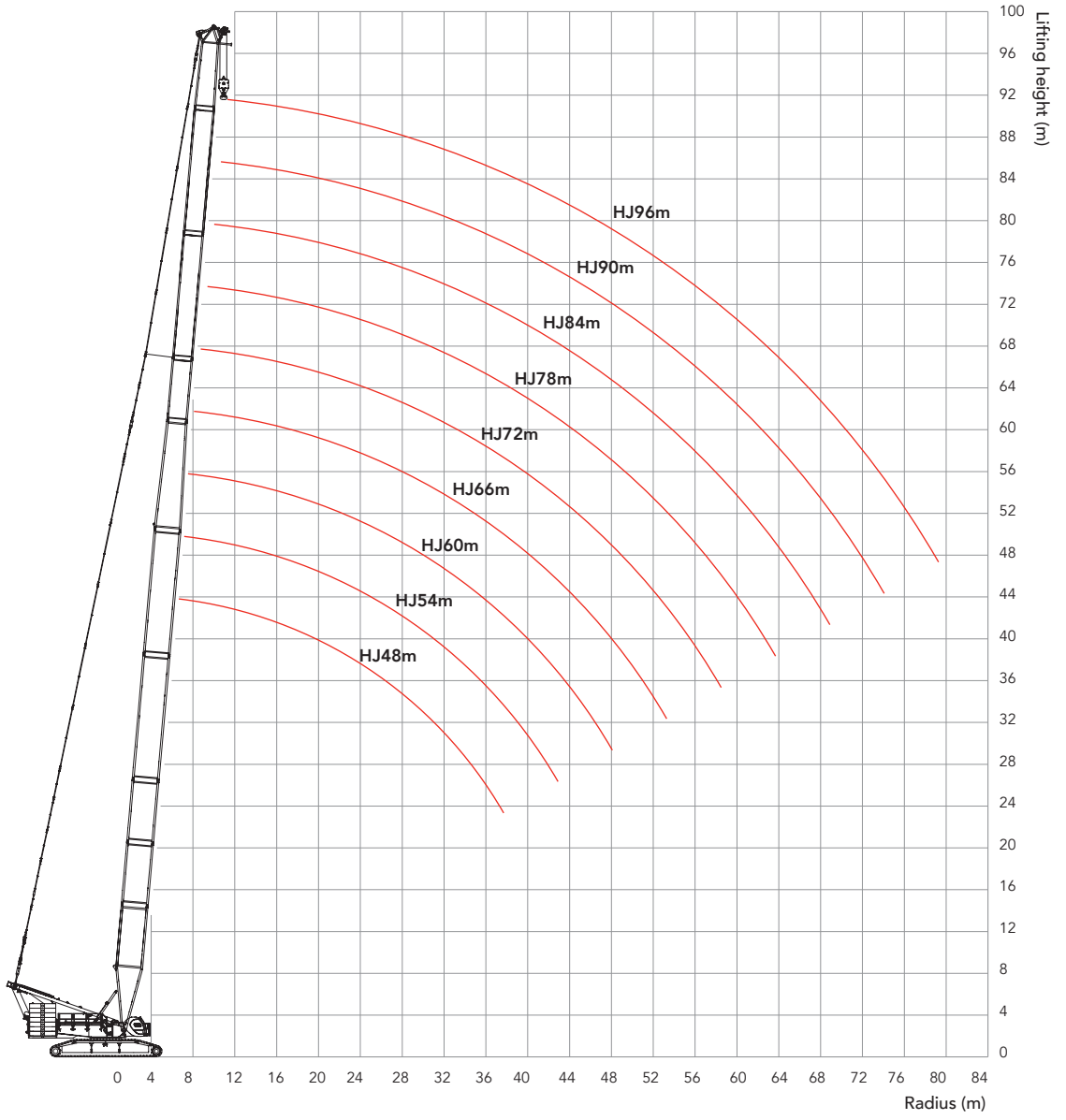
Boom length (m)	Boom Insert		Jib insert		
	6m	12mA	6mA	6mB	12m
48	2	–	1	–	
54	1	1	1	–	
60	1	1	1	1	
66	2	1	1	1	
72*	2	1	1	–	1
78*	2	1	1	1	1
84*	1	2	1	1	1
90*	1	2	1	–	2
96*	2	2	1		2

Mid-suspension cable must be used for 72m and above, the configurations marked with *, otherwise, there is danger of boom breaking.
Note: the configurations with 84m boom and above must erect from side with side outriggers, otherwise the crane may tip over.



HJ (48m-96m)

Working Radius in HJ



Unit: t

Load Chart in HJ

SCC4000A - HJ Configuration										
Boom 48-96m, Rear Counterweight 150t, Carbody Counterweight 40t										
Radius (m)	48	54	60	66	72	78	84	90	96	Radius (m)
9	242	230								9
10	215	205	196	187						10
11	193	185	177	170	163					11
12	175	168	161	155	149	143	137			12
14	147	141	136	131	126	122	117	113	109	14
16	124	122	117	113	109	105	102	98.2	94.5	16
18	105	105	102	99.1	95.5	92.3	89	86.1	82.8	18
20	90.9	90.3	89.5	87.6	84.4	81.6	78.7	76.1	73.2	20
22	79.5	79	78.1	77.7	75.2	72.7	70	67.8	65.1	22
24	70.3	69.8	69	68.5	67.4	65.1	62.7	60.7	58.2	24
26	62.8	62.3	61.4	61	60.1	58.7	56.5	54.6	52.2	26
28	56.4	55.9	55.1	54.7	53.8	53.1	51	49.2	47	28
30	51	50.5	49.7	49.3	48.4	47.7	46.2	44.6	42.4	30
32	46.4	45.9	45.1	44.7	43.8	43.1	42	40.4	38.4	32
34	42.3	41.9	41	40.6	39.7	39	38.2	36.8	34.8	34
36	38.7	38.3	37.5	37.1	36.2	35.5	34.7	33.4	31.5	36
38	35.6	35.1	34.3	33.9	33	32.3	31.5	30.5	28.6	38
40	32.7	32.3	31.5	31.1	30.2	29.5	28.7	27.8	25.9	40
44		27.5	26.7	26.3	25.4	24.7	23.9	23	21.2	44
48		23.5	22.7	22.3	21.4	20.8	20	19	17.3	48
52			19.4	19	18.1	17.4	16.6	15.6	13.9	52
56				16.2	15.3	14.6	13.8	12.7	11	56
60					12.8	12.2	11.2	10.1	8.5	60
64					10.7	10	8.9	7.8	6.2	64
68						8.1	6.8	5.8	4.2	68
72							5	4	2.8	72

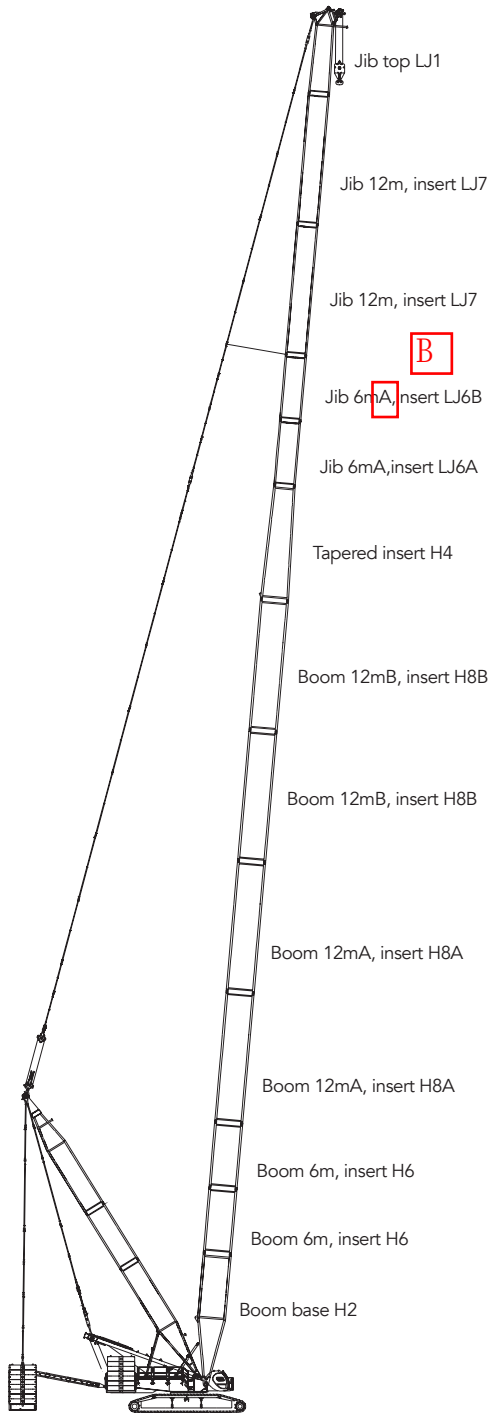
Notes:
:1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

HJDB Configuration

Boom Combination in HJDB

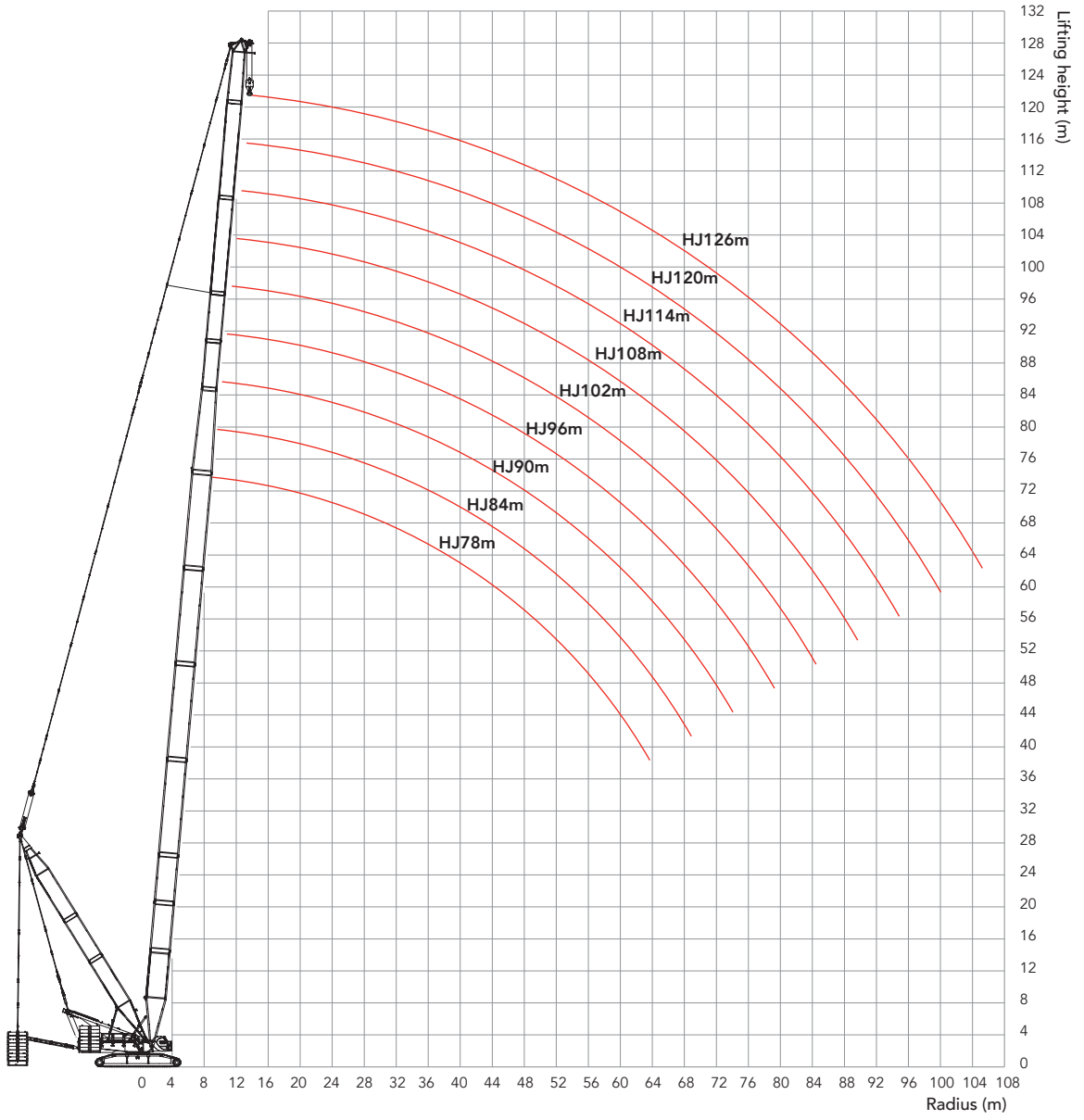
Boom length (m)	Boom Insert			Jib insert		
	6m	12mA	12mB	6mA	6mB	12m
78	1	2	1	1	–	–
84	2	2	1	1	–	–
90*	1	2	2	1	–	–
96*	2	2	2	1	–	–
102*	2	2	2	1	1	–
108*	2	2	2	1	–	1
114*	2	2	2	1	1	1
120*	2	2	2	1	2	1
126*	2	2	2	1	1	2

Mid-suspension cable must be used for configurations marked with *, otherwise there is danger of boom breaking. The mid-suspension must be used strictly upon the manual.



HJDB (72m-126m)

Working Radiusof HJDB



Unit: t

Load Chart of HJDB

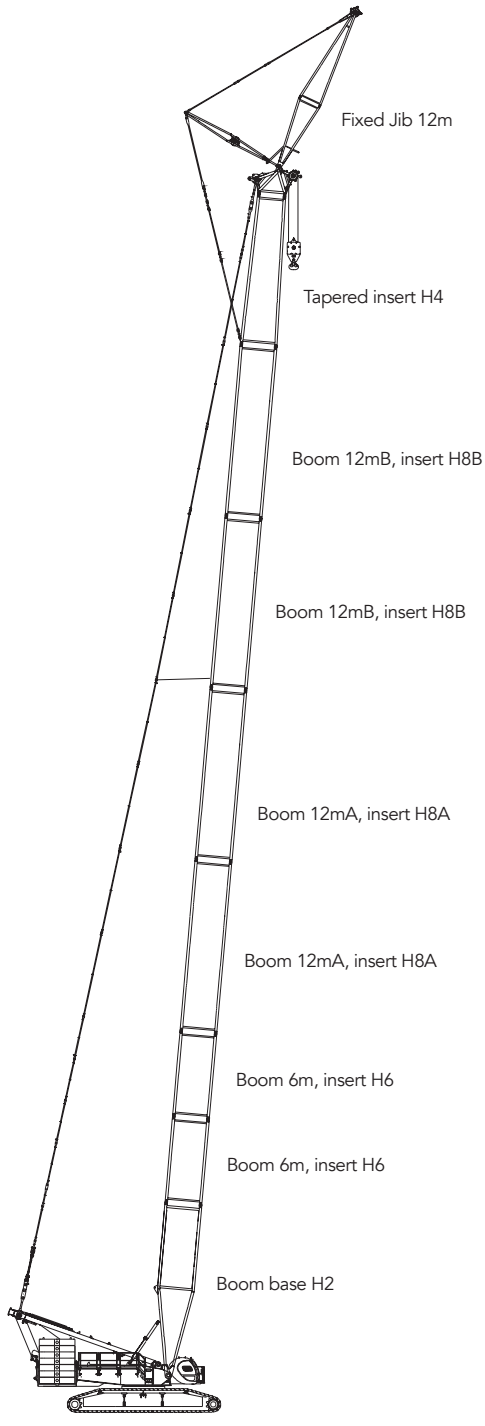
SCC4000A - HJDB										
Boom length 78-126m, superlift mast 30m, superlift radius 15m, superlift counterweight 0-230t, rear counterweight 130t, central counterweight 40t										
Radius (m)	78	84	90	96	102	108	114	120	126	Radius (m)
12	211	198								12
14	206	198	169	146	126					14
16	204	198	170	146	126	109	94.6	82.3		16
18	199	197	170	146	126	109	94.7	81.8	71.3	18
20	194	192	170	146	126	109	94.7	81.7	71.1	20
22	190	188	165	140	126	109	94.7	81.6	68.6	22
24	185	183	159	134	125	109	94.6	78.7	65.7	24
26	181	180	154	129	125	109	92.7	75.8	63.1	26
28	177	174	149	124	125	109	89.5	73	60.6	28
30	171	170	144	120	125	105	86.6	70.5	58.4	30
32	158	157	140	116	125	102	84.2	68.2	56.3	32
34	147	146	136	112	123	98.5	81.7	66	54.6	34
36	136	136	132	108	119	94.8	78.6	63.9	52.8	36
38	127	127	126	105	116	92.1	75.8	62	51.2	38
40	119	119	118	102	113	89.4	73.5	60.2	49.6	40
44	106	105	104	96.3	103	84.2	68.9	56.9	46.7	44
48	94.4	93.8	93.2	91.6	92	79.9	64.9	54	44.1	48
52	85	84.4	83.7	83.3	82.6	75.8	61.3	51.6	41.7	52
56	76.9	76.3	75.7	75.2	74.5	72.6	58.2	49.1	39.6	56
60	70	69.4	68.8	68.3	67.6	67.1	55.6	46.9	37.8	60
64	63.9	63.4	62.7	62.3	61.6	61.1	53.7	44.7	35.9	64
68	58.6	58	57.4	57	56.3	55.8	51.5	42.7	34.2	68
72		53.3	52.7	52.3	51.6	51.1	50.1	40.9	32.6	72
76			48.5	48.1	47.4	46.9	46.2	39	31	76
80			44.7	44.3	43.6	43.1	42.4	37.5	29.7	80
84				40.9	40.2	39.7	39	35.8	28.3	84
88					37.1	36.6	35.9	34.2	26.9	88
92						33.8	33.1	32.5	25.5	92
96							30.5	30.2	24.1	96
100							28	27.8	22.8	100
104								25.5	21.6	104
108									20.4	108

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

FJ Configuration

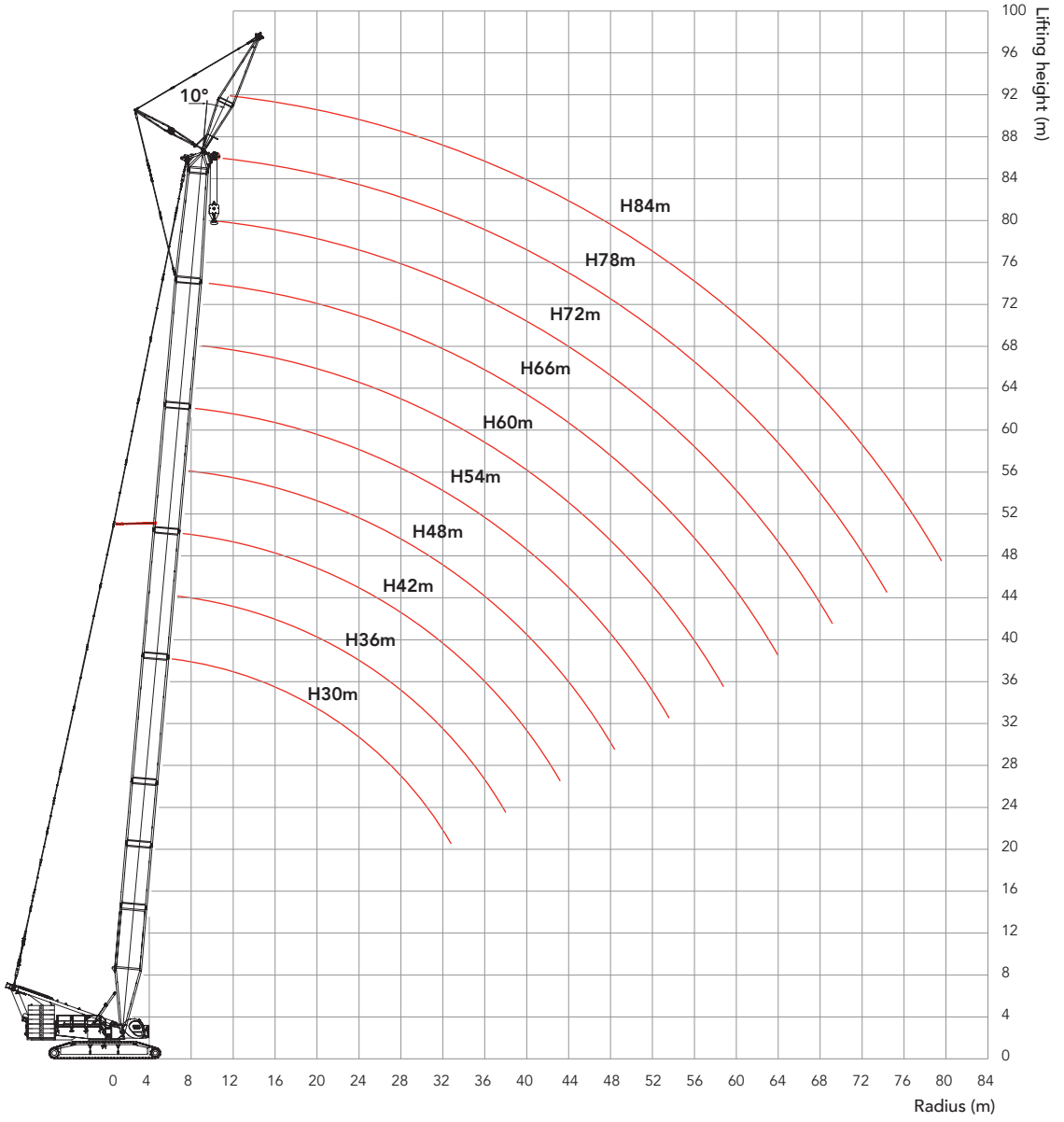
FJ with 12m Fixed Jib			
Boom length (m)	Insert		
	6 m	12mA	12mB
30	1	—	—
36	2	—	—
42	1	1	—
48	2	1	—
54	1	2	—
60	2	2	
66	1	2	1
72	2	2	1
78*	1	2	2
84*	2	2	2

Mid-suspension cable must be used for configurations of 78m and 84m, otherwise there is danger of boom breaking.
Note: Boom at 78m and above must erect from side with side outriggers, otherwise there will be danger of tipping over.

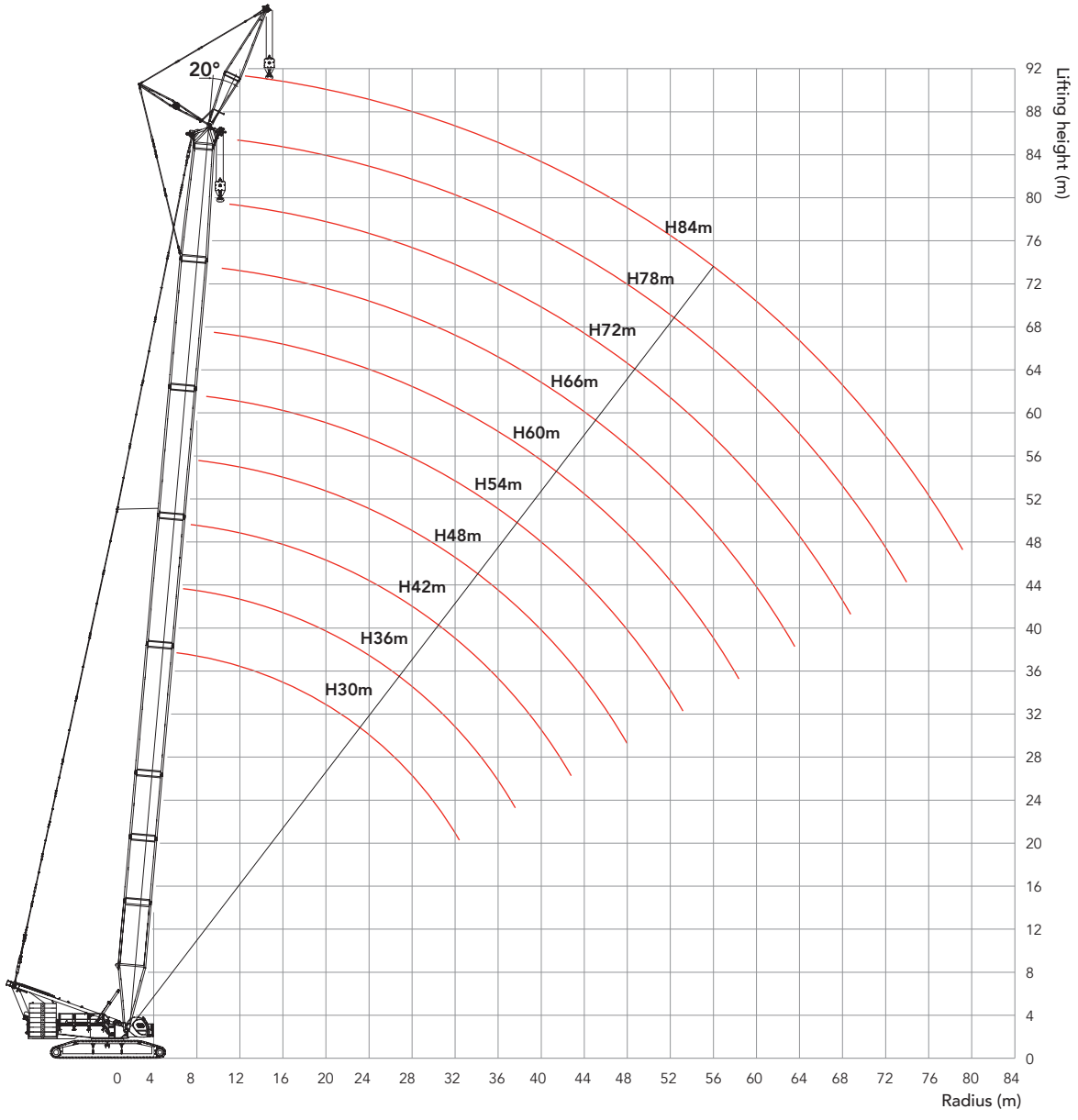


FJ (24m-84m)

Working Radius in FJ



Working Radius in FJ



Unit: t

Load Chart in FJ (boom to jib angle is 10°)

SCC4000A - FJ												
Boom length 24-84, boom to jib angle 10°, jib 12m, rear counterweight 150t and center counterweight 40t												
Radius (m)	24	30	36	42	48	54	60	66	72	78	84	Radius (m)
8	166											8
9	164	163										9
10	161	161	161	160								10
11	158	160	159	159	158							11
12	156	158	158	158	156	155	153					12
14	152	153	152	149	144	139	135	130	126	122		14
16	128	127	126	125	124	120	116	113	109	105	102	16
18	109	108	107	106	105	104	101	98.5	95.3	92.5	89.4	18
20	94.1	93.4	92.5	91.8	90.8	90	89.1	87.1	84.3	81.8	79.1	20
22	82.7	82	81.2	80.5	79.6	78.8	77.9	77.2	75.2	73	70.5	22
24	73.4	72.8	72	71.3	70.5	69.7	68.8	68.2	67.3	65.5	63.2	24
26	65.8	65.2	64.5	63.8	63	62.2	61.4	60.8	59.9	59.1	57	26
28	59.4	58.9	58.1	57.5	56.7	56	55.1	54.5	53.7	53	51.5	28
30	54	53.4	52.8	52.1	51.3	50.6	49.8	49.2	48.4	47.8	46.8	30
32	49.3	48.8	48.1	47.5	46.7	46	45.2	44.6	43.8	43.2	42.3	32
34	45.1	44.7	44.1	43.5	42.7	42	41.2	40.6	39.8	39.2	38.4	34
36		41.1	40.5	40	39.2	38.5	37.7	37.1	36.3	35.7	34.9	36
38		37.9	37.4	36.8	36	35.4	34.5	34	33.2	32.6	31.7	38
40			34.5	34	33.3	32.6	31.8	31.2	30.4	29.8	29	40
44			29.7	29.2	28.5	27.8	27	26.5	25.7	25.1	24.1	44
48				25.2	24.5	23.9	23.1	22.5	21.6	20.9	19.9	48
52					21.2	20.5	19.6	19	18.1	17.4	16.4	52
56						17.5	16.6	16.1	15.1	14.4	13.5	56
60						14.9	14	13.5	12.5	11.9	10.9	60
64							11.7	11.2	10.3	9.6	8.7	64
68								9.2	8.3	7.7	6.7	68
72									6.5	5.9	5	72
76									4.9	4.3	3.4	76

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

Unit: t

Load Chart in FJ (boom to jib angle is 20°)

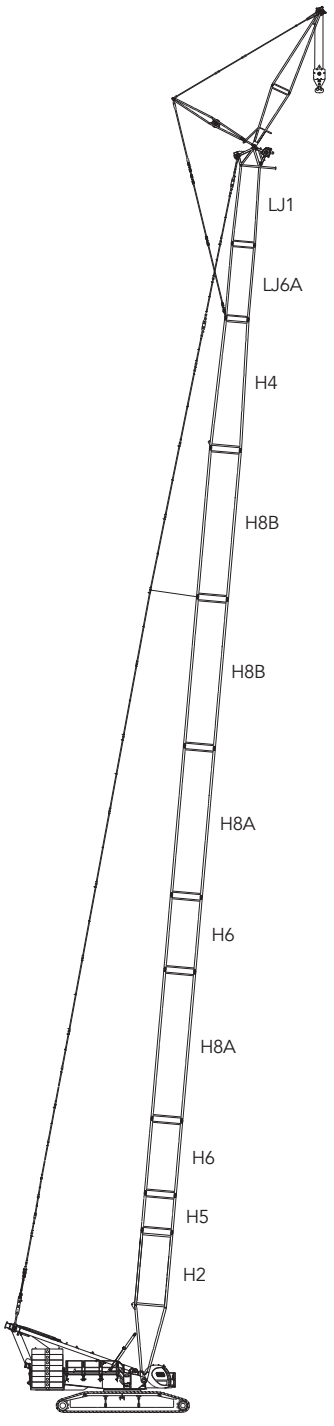
SCC4000A - FJ												
Boom length 24-84, boom to jib angle 20°, jib 12m, rear counterweight 150t, center counterweight 40t												
Radius (m)	24	30	36	42	48	54	60	66	72	78	84	Radius (m)
10	151											10
11	150	151										11
12	149	146	149	148								12
14	146	137	141	143	145	142	137					14
16	129	128	128	127	126	122	118	115	111	108		16
18	110	109	108	108	107	106	104	101	97.6	94.8	91.8	18
20	95.1	94.5	93.8	93.1	92.3	91.5	90.7	89.1	86.3	83.9	81.3	20
22	83.5	83	82.3	81.6	80.9	80.1	79.3	78.8	77	74.9	72.5	22
24	74.2	73.6	73	72.4	71.6	70.9	70.1	69.6	68.8	67.2	65	24
26	66.5	66	65.3	64.7	64	63.3	62.5	62	61.2	60.6	58.6	26
28	60	59.5	58.9	58.3	57.6	56.9	56.2	55.6	54.9	54.3	53	28
30	54.4	54	53.4	52.9	52.2	51.5	50.7	50.2	49.5	48.9	48.1	30
32	49.6	49.3	48.7	48.2	47.5	46.8	46.1	45.6	44.8	44.2	43.4	32
34	45.4	45.1	44.6	44.1	43.4	42.7	42	41.5	40.7	40.2	39.4	34
36		41.5	41	40.5	39.8	39.2	38.4	37.9	37.1	36.6	35.8	36
38		38.2	37.8	37.3	36.6	36	35.2	34.7	34	33.4	32.6	38
40		35.3	34.9	34.4	33.8	33.1	32.4	31.9	31.1	30.6	29.8	40
44			29.9	29.5	28.9	28.3	27.5	27.1	26.3	25.8	24.9	44
48				25.4	24.8	24.3	23.5	23.1	22.2	21.6	20.7	48
52					21.4	20.9	20.1	19.5	18.6	18	17.1	52
56						17.8	17	16.5	15.6	15	14	56
60						15.1	14.3	13.8	12.9	12.3	11.4	60
64							11.9	11.5	10.6	10	9.1	64
68								9.4	8.6	8	7.1	68
72									6.7	6.2	5.3	72
76									5.1	4.6	3.7	76
80										3.1	2.2	80

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

HJFJ Configuration

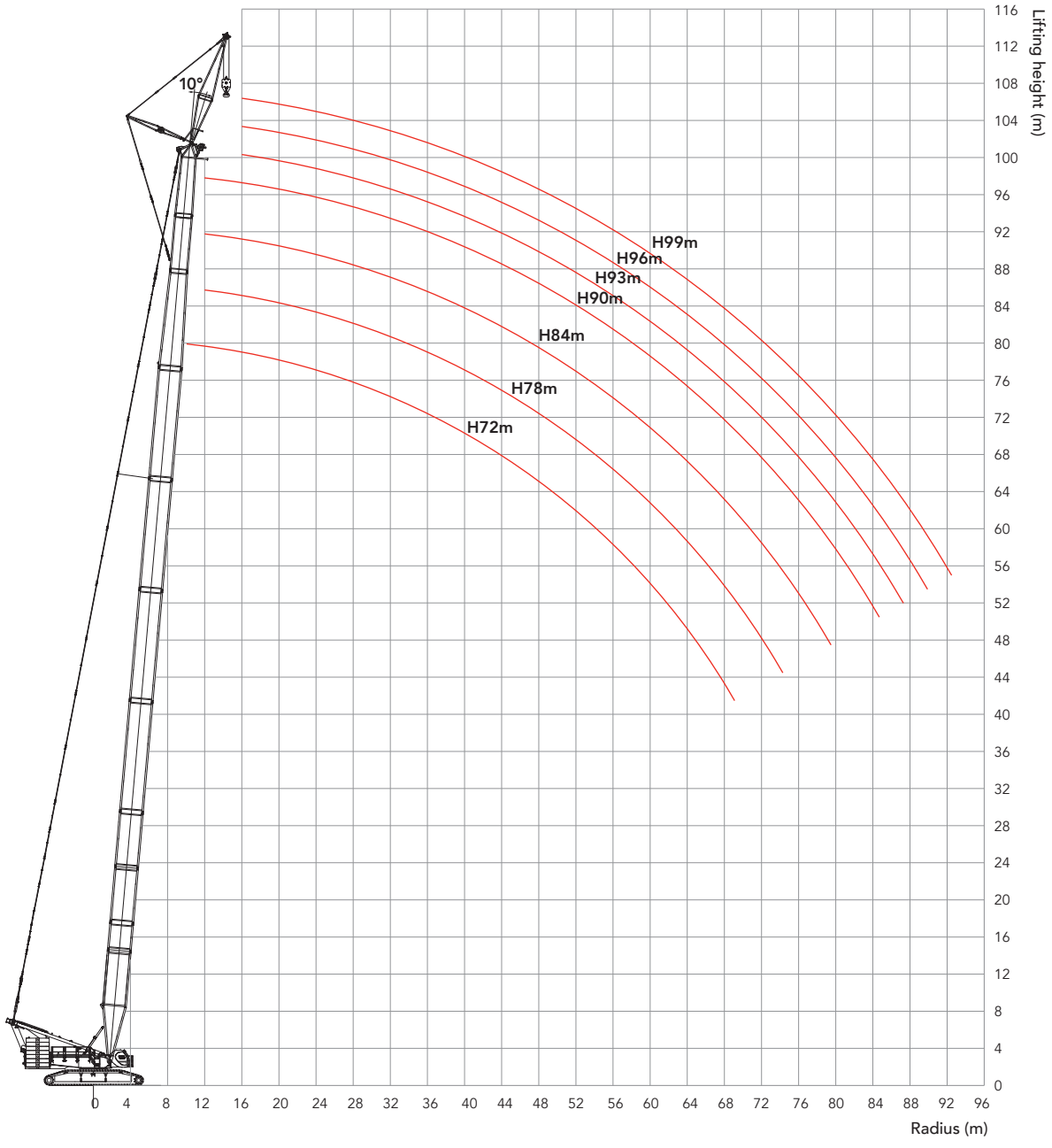
HJFJ 12m fixed jib							
Boom length (m)	Boom Insert				Jib insert		
	3m	6m	12mA	12mB	6mA	6mB	12m
72*	–	2	2	–	1	–	–
78*	–	1	2	1	1	–	–
84*	–	2	2	1	1	–	–
90*	–	1	2	2	1	–	–
93*	1	1	2	2	1	–	–
96*	–	2	2	2	1	–	–
99*	1	2	2	2	1	–	–

Mid-suspension cable must be used for boom of all length, the configurations marked with *, otherwise, there is danger of boom breaking.
Note: the configurations with 78m boom and above must erect from side with side outriggers, otherwise the crane may tip over.

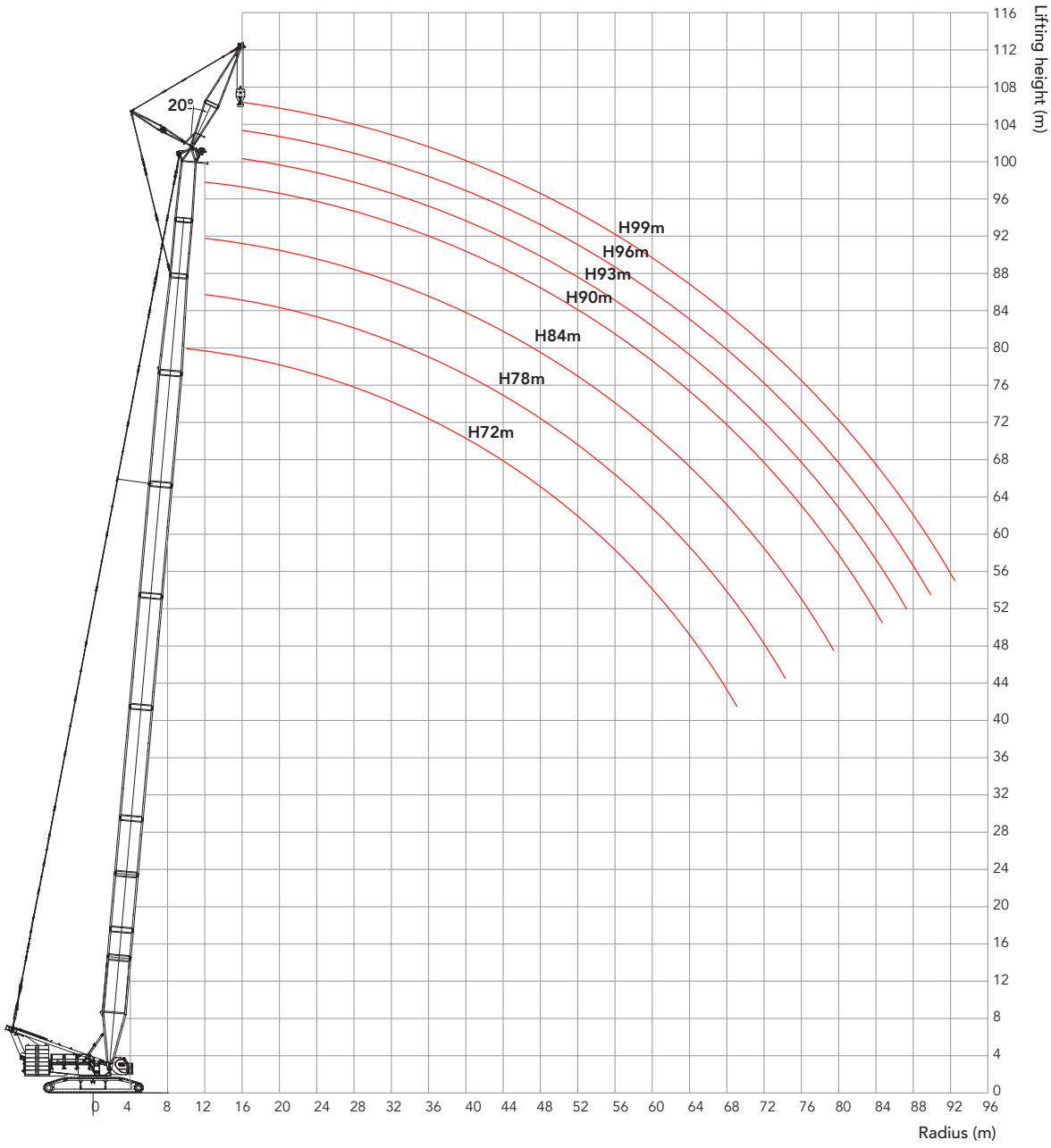


HJFJ (72m-90m)

Working Radius of HJFJ



Working Radius of HJFJ



Unit: t

Load Chart of HJFJ (boom to jib angle is 10°)

SCC4000A - HJFJ								
Boom length 72-99m, boom to jib angle 10°, jib 12m, rear counterweight 150t, center counterweight 40t								
Radius (m)	72	78	84	90	93	96	99	Radius (m)
16	112	109	106	95	94	89.3	83	16
18	98.8	95.8	92.8	89.9	83	81.7	80.4	18
20	87.7	85	82.3	79.7	73.9	72.7	71.5	20
22	78.4	76	73.6	71.2	66.1	65	63.5	22
24	69.9	68.4	66.2	64	59.5	58.5	57.4	24
26	62.4	61.6	59.8	57.7	53.7	52.8	51.8	26
28	56	55.3	54.3	52.3	48.7	47.9	46.9	28
30	50.7	49.9	49.1	47.5	44.3	43.5	42.6	30
32	46	45.3	44.5	43.3	40.3	39.6	38.7	32
34	42	41.2	40.4	39.5	36.8	36.1	35.2	34
36	38.4	37.7	36.9	36	33.7	33	32.1	36
38	35.3	34.5	33.7	32.8	30.8	30.2	29.3	38
40	32.5	31.7	30.9	30	28.2	27.6	26.7	40
44	27.7	26.9	26.1	25.1	23.6	23	21.7	44
48	23.7	23	22	20.9	19.8	19.2	17.8	48
52	20.3	19.4	18.5	17.3	16.5	15.9	14.4	52
56	17.3	16.4	15.4	14.3	13.6	13.1	11.5	56
60	14.7	13.8	12.8	11.7	11.1	10.6	9	60
64	12.4	11.5	10.6	9.4	8.8	8.3	6.7	64
68	10.4	9.5	8.6	7.4	6.9	6.4	4.7	68
72	8.6	7.7	6.8	5.6	5.1	4.6	2.9	72
76	6.9	6.1	5.2	4	3.5	3		76
80	2.9	4.7	3.7	2.7				80

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

Unit: t

Load Chart of HJFJ (boom to jib angle is 20°)

SCC4000A - HJFJ								
Boom length 72-99m, boom to jib angle 20°, jib 12m, rear counterweight 150t, center counterweight 40t.								
Radius (m)	72	78	84	90	93	96	99	Radius (m)
18	99.4	97.1	95	91.5	85.3	84	79.7	18
20	89.5	86.9	84.3	81.8	75.9	74.7	73.6	20
22	80.1	77.7	75.4	73.1	68	66.9	65.9	22
24	71.1	70	67.8	65.7	61.2	60.2	59.2	24
26	63.5	62.8	61.3	59.3	55.3	54.4	53.5	26
28	57.1	56.4	55.6	53.7	50.1	49.3	48.4	28
30	51.6	50.9	50.2	48.9	45.6	44.8	43.9	30
32	46.9	46.2	45.4	44.6	41.6	40.9	40	32
34	42.8	42.1	41.3	40.5	38	37.3	36.4	34
36	39.2	38.5	37.7	36.9	34.7	34.1	33.2	36
38	36	35.3	34.5	33.6	31.8	31.2	30.3	38
40	33.1	32.4	31.6	30.8	29.1	28.5	27.7	40
44	28.2	27.5	26.7	25.8	24.5	23.9	22.7	44
48	24.2	23.5	22.6	21.6	20.5	20	18.6	48
52	20.8	19.9	19	18	17.1	16.6	15.2	52
56	17.7	16.8	15.9	14.8	14.2	13.7	12.2	56
60	15	14.2	13.2	12.2	11.6	11.1	9.5	60
64	12.7	11.8	10.9	9.8	9.3	8.8	7.2	64
68	10.6	9.8	8.9	7.8	7.2	6.8	5.1	68
72	8.7	7.9	7	5.9	5.4	5	3.3	72
76	7	6.3	5.4	4.3	3.8	3.3		76
80	2.7	4.8	3.9	2.4				80

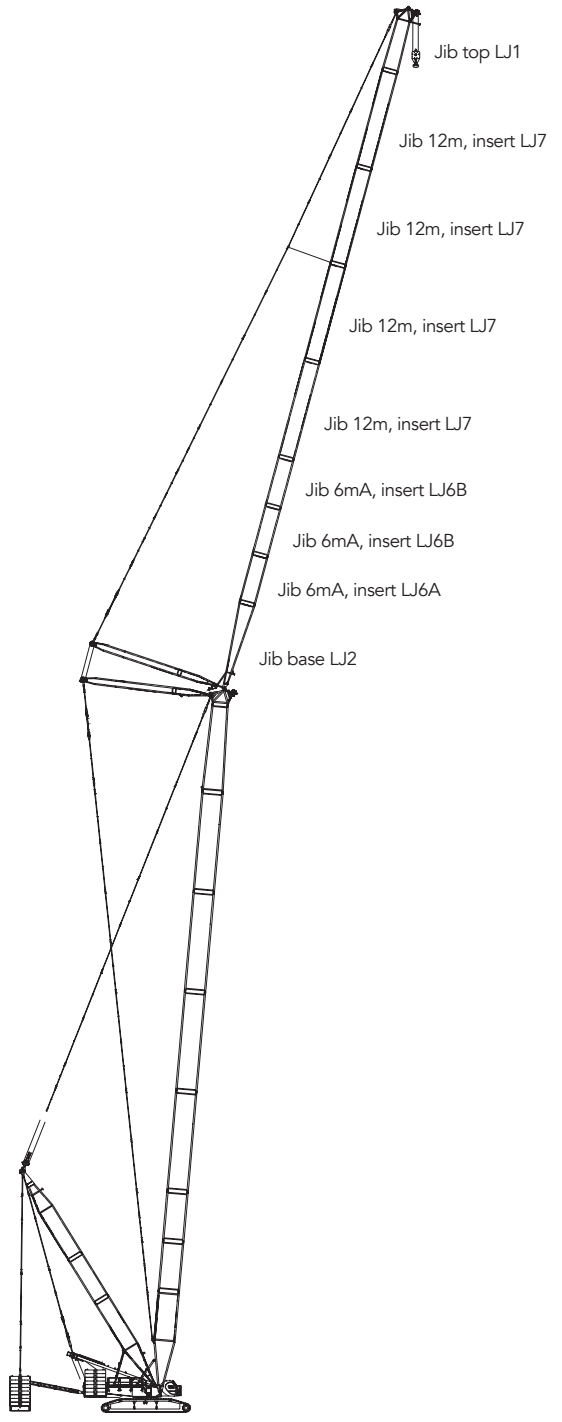
Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

LJ(DB) Configuration

Jib combination of LJ(DB)

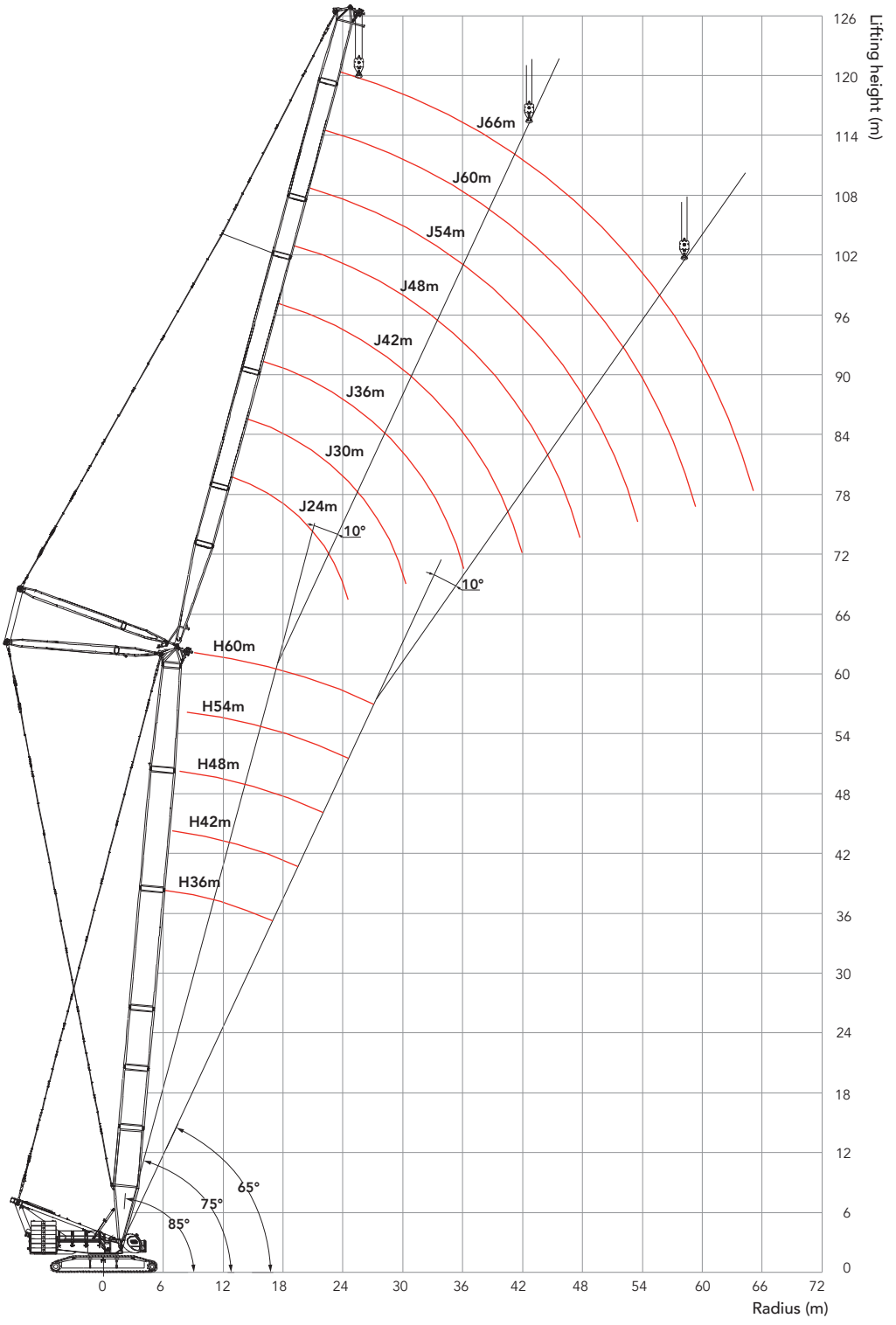
Jib length(m)	Jib insert			Boom length (m)
	6 mA	6mB	12m	
24	1	—	—	36~66(LJ) 36~84(LJDB) 54m+72/60+66(LJ longest boom + longest jib) 85° 75° 65°
30	1	1	—	
36	1	2	—	
42	1	1	1	
48	1	2	1	
54	1	1	2	
60	1	2	2	
66*	1	1	3	
72*	1	2	3	
78*	1	1	4	
84*	1	2	4	

Jib length of LJ is 24m-72m;
Jib length of LJDB is 24m-84m;
Jib of 66m-84m, which are marked with starts, must use mid-suspension cable.
Note: Boom erection in LJ must strictly follow the erection table in the manual, otherwise, the crane will tip over.



LJ(DB) (36m-84m+24m-84m)

Working Radius in LJ



Unit: t

Working Radius in LJ

SCC4000A - LJ 1/6										
Boom 36m, boom to jib angle 85°, jib length 24-72m, rear counterweight 150t, center counterweight 40t										
Radius (m)	24	30	36	42	48	54	60	66	72	Radius (m)
14	139									14
16	122	118	113							16
18	109	105	101	98						18
20	98.3	94.8	91.5	88.5	85.5					20
22	89.3	86.2	83.3	80.6	77.9	75.5	72.9			22
24	80.1	79	76.3	73.9	71.4	69.2	66.9	64.8		24
26	72.4	71.9	70.3	68.1	65.8	63.8	61.7	59.8	57.6	26
28		65.5	64.9	63.1	61	59.1	57.1	55.3	53.3	28
30		60	59.5	58.7	56.7	54.9	53	51.4	49.5	30
32		55.3	54.8	54.3	52.9	51.3	49.5	47.9	46.1	32
34			50.7	50.2	49.5	48	46.2	44.7	43	34
36			47.1	46.7	46.1	45	43.3	41.9	40.3	36
38			43.9	43.5	42.9	42.3	40.7	39.3	37.8	38
40				40.7	40.1	39.6	38.3	37	35.5	40
44					35.3	34.8	34.2	32.9	31.5	44
48					31.2	30.9	30.3	29.4	28	48
52						27.5	26.9	26.5	25.1	52
56							24.1	23.7	22.6	56
60							21.6	21.2	20.3	60
64								19.1	18.3	64
68									16.5	68

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

Unit: t

Working Radius in LJ

SCC4000A - LJ 2/6										
Boom 42m, boom angle 85°, jib angle 24-72m, rear counterweight 150t, center counterweight 40t										
Radius (m)	24	30	36	42	48	54	60	66	72	Radius (m)
14	133									14
16	117	113								16
18	105	101	97.3	94						18
20	94.5	91.1	88	85.1	82.1					20
22	86	83	80.2	77.6	74.9	72.6				22
24	78.9	76.1	73.5	71.2	68.8	66.7	64.4			24
26	71.8	70.3	67.8	65.7	63.5	61.5	59.4	57.5	55.4	26
28	65.3	65	62.9	60.9	58.8	57	55	53.2	51.3	28
30		59.6	58.5	56.7	54.7	53	51.1	49.5	47.6	30
32		54.9	54.4	52.9	51.1	49.5	47.7	46.1	44.3	32
34			50.3	49.6	47.8	46.3	44.6	43.1	41.4	34
36			46.7	46.3	44.9	43.4	41.8	40.4	38.7	36
38			43.5	43.2	42.2	40.9	39.3	37.9	36.3	38
40				40.3	39.8	38.5	37	35.7	34.1	40
44				35.5	35	34.4	33	31.7	30.3	44
48					31	30.6	29.5	28.4	27	48
52						27.3	26.6	25.5	24.1	52
56							23.9	23	21.7	56
60							21.4	20.8	19.5	60
64								18.8	17.6	64
68									15.9	68

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

Unit: t

Working Radius in LJ

SCC4000A - LJ 3/6										
Boom 48m, boom angle 85°, jib length 24-72m, rear counterweight 150t, center counterweight 40t										
Radius (m)	24	30	36	42	48	54	60	66	72	Radius (m)
14	127									14
16	112	108								16
18	100	96.8	93.4							18
20	90.8	87.6	84.6	81.8	78.9					20
22	82.8	80	77.2	74.7	72.1	69.8				22
24	76	73.4	70.9	68.6	66.2	64.2	61.9			24
26	70.2	67.8	65.4	63.4	61.2	59.2	57.1	55.3		26
28	64.9	62.9	60.7	58.8	56.7	54.9	53	51.2	49.3	28
30		58.6	56.6	54.7	52.8	51.1	49.3	47.6	45.8	30
32		54.5	52.9	51.2	49.3	47.7	46	44.4	42.6	32
34		50.4	49.6	47.9	46.2	44.7	43	41.5	39.8	34
36			46.4	45.1	43.4	41.9	40.3	38.9	37.3	36
38			43.2	42.5	40.8	39.5	37.9	36.5	35	38
40				40	38.5	37.2	35.7	34.4	32.8	40
44				35.2	34.5	33.2	31.8	30.6	29.1	44
48					30.7	29.9	28.5	27.3	25.9	48
52						27	25.6	24.5	23.2	52
56							23.2	22.1	20.8	56
60							21	19.9	18.7	60
64								18.1	16.8	64
68									15.1	68
72									13.6	72

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

Unit: t

Working Radius in LJ

SCC4000A - LJ 4/6										
Boom 54m, boom angle 85°, jib length 24-72, rear counterweight 150t, center counterweight 40t										
Radius (m)	24	30	36	42	48	54	60	66	72	Radius (m)
16	107	103								16
18	96.2	92.7	89.4							18
20	87.2	84.1	81.1	78.4						20
22	79.6	76.8	74.1	71.7	69.2	66.9				22
24	73.2	70.6	68.1	65.9	63.6	61.6	59.3			24
26	67.6	65.3	63	60.9	58.8	56.9	54.8	53		26
28	62.8	60.6	58.5	56.6	54.5	52.8	50.8	49.1	47.2	28
30		56.5	54.5	52.7	50.8	49.1	47.3	45.7	43.9	30
32		52.9	51	49.3	47.5	45.9	44.1	42.6	40.9	32
34		49.7	47.8	46.2	44.5	43	41.3	39.8	38.2	34
36			45	43.4	41.8	40.4	38.7	37.3	35.7	36
38			42.4	40.9	39.3	38	36.4	35.1	33.5	38
40				38.7	37.1	35.8	34.3	33	31.4	40
44				34.7	33.2	32	30.5	29.3	27.9	44
48					29.9	28.7	27.3	26.2	24.8	48
52						25.9	24.6	23.5	22.1	52
56						23.5	22.2	21.1	19.8	56
60							20.1	19.1	17.8	60
64								17.2	16	64
68									14.4	68
72									12.9	72

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

Unit: t

Working Radius in LJ

SCC4000A - LJ 5/6									
Boom 60m, boom angle 85°, jib length 24-66m, rear counterweight 150t, center counterweight 40t									
Radius (m)	24	30	36	42	48	54	60	66	Radius (m)
16	102								16
18	92	88.7	85.4						18
20	83.5	80.5	77.6	75					20
22	76.3	73.6	71	68.7	66.2				22
24	70.2	67.8	65.4	63.2	60.9	58.9			24
26	65	62.7	60.5	58.5	56.4	54.5	52.5	50.7	26
28	60.4	58.3	56.2	54.3	52.3	50.6	48.7	47	28
30		54.4	52.4	50.6	48.7	47.1	45.3	43.7	30
32		50.9	49	47.4	45.6	44	42.3	40.8	32
34		47.8	46	44.4	42.7	41.2	39.6	38.1	34
36			43.3	41.8	40.1	38.7	37.1	35.7	36
38			40.8	39.4	37.8	36.4	34.9	33.5	38
40			38.6	37.2	35.6	34.3	32.8	31.5	40
44				33.4	31.9	30.7	29.2	28	44
48					28.7	27.5	26.2	25	48
52						24.8	23.5	22.4	52
56						22.5	21.2	20.1	56
60							19.2	18.1	60
64								16.4	64

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

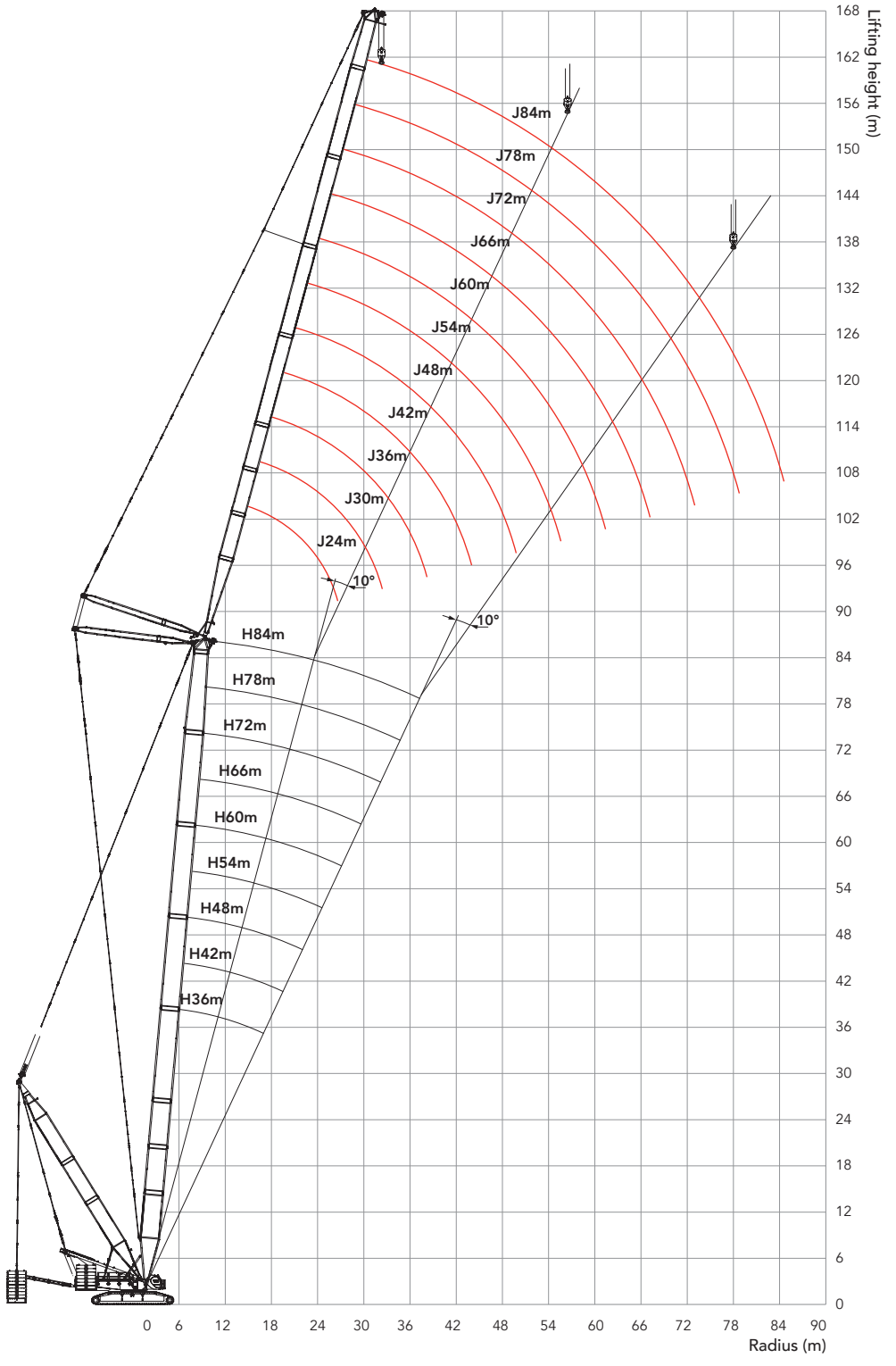
Unit: t

Working Radius in LJ

SCC4000A - LJ 6/6					
Boom 66m, boom angle 85°, jib length 24-42m, rear counterweight 150t, center counterweight 40t					
Radius (m)	24	30	36	42	Radius (m)
16	97.5				16
18	87.9	84.7			18
20	79.9	77	74.2	71.7	20
22	73.1	70.5	67.9	65.7	22
24	67.3	65	62.6	60.5	24
26	62.4	60.1	57.9	56	26
28	58	55.9	53.9	52.1	28
30	54.2	52.2	50.3	48.5	30
32		48.9	47	45.4	32
34		45.9	44.2	42.6	34
36			41.6	40.1	36
38			39.2	37.8	38
40			37.1	35.7	40
44				32	44

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

Working radius of LJDB



Unit: t

Load Chart of LJDB

SCC4000A -- LJDB 1/9												
Boom 36m, boom angle 85, jib length 24-84, superlift mast 30m, superlift radius 15m, superlift counterweight 0-230t, rear counterweight 130t, center counterweight 40t.												
Radius (m)	24	30	36	42	48	54	60	66	72	78	84	Radius (m)
14	233											14
16	229	212	189									16
18	224	210	189	156								18
20	210	200	188	156	127							20
22	194	187	177	156	127	105	86.2					22
24	182	175	167	156	127	105	86.2	71.2				24
26	161	165	158	151	127	104	85.8	71.1	59			26
28		155	149	143	126	104	85.3	70.7	58.8	48.9		28
30		138	138	136	125	103	84.7	70.1	58.3	48.6	40.8	30
32		122	132	125	124	102	84.2	69.6	57.7	48.1	40.4	32
34			119	121	117	101	83.6	69.1	57.3	47.7	40	34
36			108	111	107	101	83	68.6	56.8	47.2	39.5	36
38			96.8	101	105	96.9	82.3	68	56.3	46.7	39	38
40				92.3	96.7	92.4	81.1	67.4	55.7	46.2	38.6	40
44					82.3	84.8	73.8	63.8	54.6	45.5	37.7	44
48					69.5	73.9	67.2	57.8	49.1	41.8	35	48
52						63.6	61.3	52.4	44.4	37.4	30.8	52
56							55.9	47.6	40.1	33.3	27	56
60							51.7	43.3	36.1	29.5	23.6	60
64								39.7	32.5	26.5	20.4	64
68									29.3	23.3	17.9	68
72										20.8	15.5	72
76										18.3	13	76
80											11.1	80

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

Unit: t

Load Chart of LJDB

SCC4000A -- LJDB 2/9												
Boom 42m, boom angle 85, jib length 24-84, superlift mast 30m, superlift radius 15m, superlift counterweight 0-230, rear counterweight 130t, center counterweight 40t.												
Radius (m)	24	30	36	42	48	54	60	66	72	78	84	Radius (m)
14	229											14
16	227	205										16
18	222	205	174	143								18
20	208	197	174	143	117							20
22	194	185	173	143	117	96.9						22
24	183	175	167	143	117	96.9	80.5					24
26	169	165	157	142	117	96.9	80.5	67.1	55.7			26
28	153	156	150	140	116	96.6	80.2	66.8	55.7	46.6		28
30		143	142	137	116	96	79.8	66.4	55.4	46.5	38.8	30
32		127	129	129	115	95.5	79.3	65.9	54.9	46.2	38.6	32
34			123	122	113	94.8	78.7	65.5	54.5	45.8	38.2	34
36			112	114	108	94	78.3	65.1	54.1	45.4	37.8	36
38			101	104	102	93.3	77.7	64.6	53.7	44.9	37.4	38
40				95.4	96.9	90.8	77.1	64.1	53.2	44.5	37	40
44				84.1	84.8	82.4	74.4	63.1	52.3	43.7	36.3	44
48					71.9	74.7	67.6	58.1	49.6	42.2	35.3	48
52						65.6	61.9	52.5	44.5	37.8	31.2	52
56							56.3	47.9	40.1	33.8	27.5	56
60							51.5	43.8	36.3	29.8	24.1	60
64								40	32.7	26.7	21	64
68									29.5	23.7	18	68
72										21	15.6	72
76										18.8	13.5	76
80											11.5	80

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

Unit: t

Load Chart of LJDB

SCC4000A -- LJDB 3/9												
Boom 48m, boom angle 85, jib lenth 24-84, superlift mast 30m, superlift radius 15m, superlift counterweight 0-230t, rear counterweight 130t, center counterweight 40t.												
Radius (m)	24	30	36	42	48	54	60	66	72	78	84	Radius (m)
14	224											14
16	221	190										16
18	216	190	156									18
20	202	190	156	130	107							20
22	190	181	156	130	107	89.6						22
24	179	171	154	130	107	89.6	74.7					24
26	169	161	152	129	107	89.6	74.7	62.4				26
28	155	153	143	127	107	89.6	74.7	62.4	52.3	44.1		28
30		144	134	125	106	89.2	74.6	62.4	52.2	44.1	36.7	30
32		128	126	118	105	88.5	74.2	62	51.9	43.8	36.7	32
34		119	118	111	103	87.9	73.7	61.6	51.6	43.4	36.4	34
36			109	105	98.2	87.2	73.2	61.3	51.2	43.1	36	36
38			101	98.1	93.3	86.3	72.7	60.9	50.8	42.7	35.7	38
40				92.1	88.4	82.9	72.1	60.4	50.4	42.4	35.3	40
44				81.1	78.7	75	70.4	59.5	49.7	41.7	34.7	44
48					70	67.8	64.4	58.3	48.9	40.9	34	48
52						60.8	58.5	52.9	44.8	38	31.4	52
56							53.2	48.4	40.7	33.9	27.5	56
60							48.1	44.1	36.7	30.2	24.2	60
64								40.1	33.1	26.8	21.1	64
68									29.9	24	18.5	68
72									27	21.3	15.9	72
76										18.8	13.5	76
80											11.6	80

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

Unit: t

Load Chart of LJDB

SCC4000A -- LJDB 4/9

Boom 54m, boom angle 85°, jib length 24-84, superlift mast 30m, superlift radius 15m, superlift counterweight 0-230, rear counterweight 130t, center counterweight 40t.

Radius (m)	24	30	36	42	48	54	60	66	72	78	84	Radius (m)
16	204	168										16
18	201	168	139									18
20	195	168	139	117								20
22	184	164	139	117	98.2	82.4						22
24	174	159	138	117	98.2	82.4	69.2					24
26	162	151	135	116	98.2	82.4	69.2	58.1				26
28	150	141	131	115	97.7	82.4	69.2	58.1	49.1			28
30		130	123	113	96.8	82.2	69.2	58.1	49.1	41.5	34.7	30
32		122	115	108	95.6	81.6	69	58.1	49.1	41.3	34.7	32
34		112	108	102	94.4	80.8	68.5	57.7	48.8	41.1	34.5	34
36			100	95.7	90.2	80.1	68	57.4	48.5	40.8	34.2	36
38			93.6	90.1	85.6	79.2	67.4	57	48.1	40.5	33.9	38
40				84.5	80.9	76	66.9	56.6	47.9	40.2	33.6	40
44				74.6	72	69	64.9	55.7	47.1	39.6	32.9	44
48					64.4	62.2	59.1	54.7	46.3	38.9	32.4	48
52						55.6	54	51.2	45.1	38.3	31.6	52
56						50.2	48.9	46.9	40.8	34.1	27.9	56
60							44.1	42.6	36.9	30.5	24.6	60
64								39	33.2	27.2	21.3	64
68									30.2	24.2	18.7	68
72									27.4	21.7	16.2	72
76										19	14	76
80											11.8	80

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

Unit: t

Load Chart of LJDB

SCC4000A -- LJDB 5/9												
Boom 60m, boom angle 85°, jib length 24-84, superlift mast 30m, superlift radius 15m, superlift counterweight 0-230, rear counterweight 130t, center counterweight 40t.												
Radius (m)	24	30	36	42	48	54	60	66	72	78	84	Radius (m)
16	174											16
18	174	149	125									18
20	170	148	125	105								20
22	164	144	125	105	88.8							22
24	158	140	122	105	88.8	75.2						24
26	146	136	120	104	88.8	75.2	63.8	54.2				26
28	135	127	117	103	88.6	75.2	63.8	54.2	45.8			28
30		119	111	101	87.5	75.2	63.8	54.2	45.8	38.6		30
32		110	104	97.7	86.3	74.6	63.6	53.9	45.8	38.6	32.6	32
34		102	97.5	92.2	85	73.7	63.2	53.9	45.7	38.6	32.5	34
36			91.2	86.8	81.7	72.8	62.6	53.6	45.4	38.4	32.2	36
38			85.2	82.1	77.8	71.9	62	53.2	45.1	38.1	32	38
40			79.6	77	73.5	69.5	61.4	52.7	44.7	37.8	31.7	40
44				67.9	65.6	62.8	59.1	51.8	44.1	37.2	31.1	44
48					58.1	56.4	54	50.8	43.3	36.6	30.6	48
52						50.6	48.7	46.6	42.5	36	30	52
56						45.6	44.3	42.5	40.4	34.4	28	56
60							40	38.5	36.9	31	24.6	60
64								35.3	33.6	27.6	21.7	64
68									30.4	24.4	18.8	68
72									27.6	21.8	16.3	72
76										19.3	14.1	76
80											12.1	80
84											10.2	84

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

Unit: t

Load Chart of LJDB

SCC4000A -- LJDB 6/9

Boom 66m, boom angle 85°, jib length 24-84, superlift mast 30m, superlift radius 15m, superlift counterweight 0-230, rear counterweight 130t, center counterweight 40t.

Radius (m)	24	30	36	42	48	54	60	66	72	78	84	Radius (m)
16	148											16
18	148	125										18
20	145	125	108	91.8								20
22	140	124	108	91.8	78							22
24	135	120	106	91.8	78	66.5						24
26	130	116	103	90.6	78	66.5	56.9					26
28	123	113	101	89	77.6	66.5	56.9	48.6	41.3			28
30	115	107	98	87.2	76.5	66.4	56.9	48.6	41.3	34.9		30
32		100	94	85.3	75.2	65.6	56.9	48.6	41.3	34.9	29.3	32
34		93.6	88.7	83.4	74	64.8	56.4	48.4	41.3	34.9	29.3	34
36			83.1	78.8	72.7	63.9	55.8	48.1	41	34.8	29.3	36
38			77.8	74.6	70.2	63	55.2	47.7	40.7	34.7	29.1	38
40			73.4	70	66.7	62	54.5	47.2	40.4	34.4	29	40
44				62	59.6	57.1	53.2	46.2	39.7	33.8	28.5	44
48					53.3	51.5	48.8	45.2	38.9	33.2	27.9	48
52						46.2	44.6	42.3	38.2	32.6	27.4	52
56						41.7	40.2	38.5	36.5	31.9	26.9	56
60							36.3	35.1	33.6	30.8	24.9	60
64								32.1	30.7	27.6	21.9	64
68								29.3	28.2	24.6	19.3	68
72									25.8	22	16.7	72
76										19.6	14.3	76
80											12.1	80
84											10.3	84

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

Unit: t

Load Chart of LJDB

SCC4000A -- LJDB 7/9												
Boom 72m, boom angle 85°, jib length 24-84, superlift mast 30m, superlift radius 15m, superlift counterweight 0-230, rear counterweight 130t, center counterweight 40t.												
Radius (m)	24	30	36	42	48	54	60	66	72	78	84	Radius (m)
16	131											16
18	131	111										18
20	128	111	94.9									20
22	123	109	94.9	82.5	70.9							22
24	118	106	94	82.5	70.9	60.8						24
26	114	103	91.7	81.1	70.9	60.8	52					26
28	110	99.2	89.2	79.4	69.8	60.8	52	44.4				28
30	104	95.9	86.7	77.7	68.7	60.5	52	44.4	38.1	32.3		30
32		91.7	84.2	75.8	67.4	59.6	51.9	44.4	38.1	32.3	27.3	32
34		85.7	81.1	74	66.1	58.8	51.4	44.4	38.1	32.3	27.3	34
36		80.3	75.9	72.1	64.7	57.8	50.7	44.1	37.8	32.3	27.3	36
38			71.6	68	63.6	56.9	50	43.6	37.5	32	27.2	38
40			67	64.2	61.1	55.8	49.4	43.1	37.1	31.7	27	40
44				57.2	54.8	52.3	47.9	42.1	36.4	31.1	26.6	44
48					49	47.1	44.7	40.9	35.6	30.6	26	48
52					44	42.5	40.7	38.7	34.8	29.9	25.5	52
56						38.3	36.8	35.4	33.5	29.2	25	56
60							33.2	32.1	30.6	28.6	24.4	60
64								29.3	28.1	26.8	22	64
68								26.7	25.7	24.4	19.3	68
72									23.5	22	16.7	72
76										19.7	14.5	76
80											12.4	80
84											10.7	84

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

Unit: t

Load Chart of LJDB

SCC4000A -- LJDB 8/9

Boom 78m, boom angle 85°, jib length 24-84, superlift mast 30m, superlift radius 15m, superlift counterweight 0-230, rear counterweight 130t, center counterweight 40t.

Radius (m)	24	30	36	42	48	54	60	66	72	78	84	Radius (m)
18	112	95.5										18
20	109	95.5	82.3									20
22	105	93.7	82.3	70.9								22
24	101	90.8	80.8	70.9	61.1							24
26	97.3	87.9	78.7	70.4	61.1	53.3	45.8					26
28	93.7	84.9	76.5	68.9	61	53.3	45.8	39.2				28
30	90.6	82.1	74.3	67.2	59.8	52.8	45.8	39.2	33.5			30
32		79.3	72	65.5	58.6	51.9	45.6	39.2	33.5	28.9	24.3	32
34		76.8	69.9	63.8	57.4	51.1	44.9	39.1	33.5	28.9	24.3	34
36		73.8	67.8	62.1	56.1	50.1	44.3	38.7	33.4	28.9	24.3	36
38			65.5	60.4	54.8	49.2	43.6	38.3	33.1	28.6	24.3	38
40			61.4	58.5	53.5	48.2	42.9	37.7	32.8	28.3	24.1	40
44				52.2	49.9	46.2	41.4	36.7	31.9	27.7	23.6	44
48					44.9	43	39.9	35.4	31	27.1	23.1	48
52					40.5	38.8	37	34.3	30.4	26.4	22.6	52
56						35	33.5	32.1	29.4	25.7	22	56
60							30.5	29.2	27.7	25	21.5	60
64								26.6	25.4	24.1	20.9	64
68								24.3	23.2	22.2	19.5	68
72									21.3	20.3	16.9	72
76										18.6	14.7	76
80										17.1	12.6	80
84											10.6	84

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

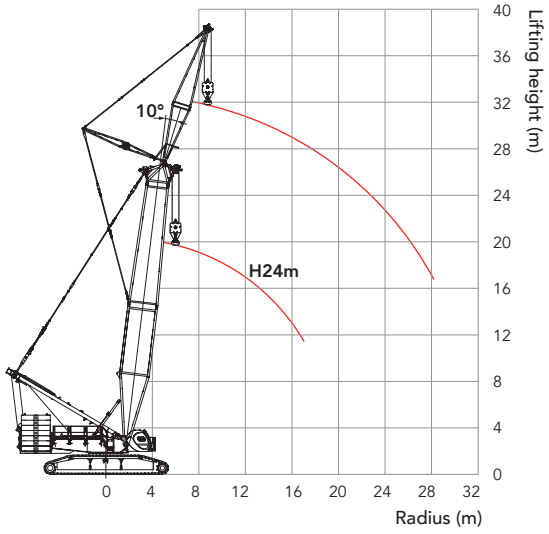
Unit: t

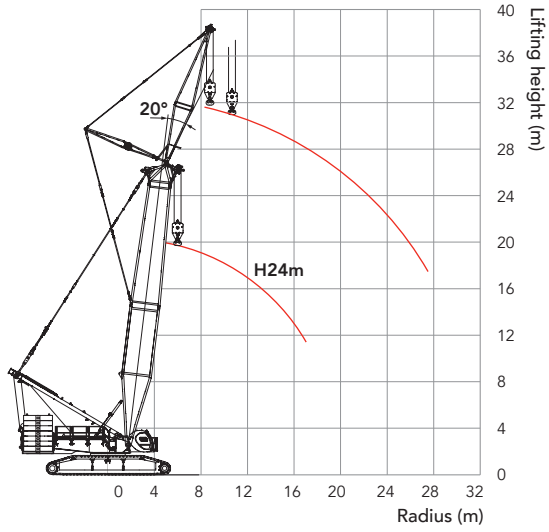
Load Chart of LJDB

SCC4000A -- LJDB 9/9												
Boom 84m, boom angle 85°, jib length 24-84, superlift mast 30m, superlift radius 15m, superlift counterweight 0-230, rear counterweight 130t, center counterweight 40t.												
Radius (m)	24	30	36	42	48	54	60	66	72	78	84	Radius (m)
18	96.8											18
20	96.3	85.6	73.7									20
22	92.9	83.7	73.7	63.6								22
24	89.4	81	72.5	63.6	55							24
26	86	78.3	70.5	63.1	55	47.6						26
28	82.7	75.5	68.4	61.5	54.7	47.6	41.5	35.6				28
30	79.8	72.9	66.3	59.9	53.6	47.5	41.5	35.6	30.7			30
32		70.4	64.2	58.3	52.4	46.7	41.1	35.6	30.7	26.1		32
34		68.1	62.2	56.7	51.2	45.8	40.5	35.4	30.7	26.1	22.1	34
36		66.1	60.3	55.1	50	44.8	39.8	34.9	30.5	26.1	22.1	36
38			58.5	53.6	48.6	43.9	39.1	34.4	30.1	26	22.1	38
40			56.7	52	47.4	42.9	38.4	33.9	29.7	25.7	21.9	40
44				48.4	45	40.9	36.8	32.8	28.9	25.1	21.5	44
48				43.6	41.5	39	35.2	31.7	28	24.4	20.9	48
52					37.3	35.7	33.7	30.5	27.1	23.6	20.3	52
56						32.4	30.8	29.3	26.1	22.9	19.7	56
60							28	26.8	25.2	22.1	19.1	60
64							25.6	24.4	23.2	21.4	18.5	64
68								22.3	21.3	20.1	17.8	68
72									19.5	18.5	17	72
76										16.9	14.9	76
80										15.5	12.9	80
84											11	84

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

Working radius of FJh





Load Chart of FJh (boom to jib angle 10°/20°)

SCC4000A Shield (FJh) Configuration

Boom to jib angle 10°, rear counterweight 150t, center counterweight 40t

Boom Length (m) / jib length/m / radius/m	24 / 12 Main hook capacity (empty aux. hook)	24 / 12 Aux. hook capacity (empty main hook)	Boom Length (m) / jib length/m / radius/m
6	392		6
7	352		7
8	312.4	159	8
9	272.3	157	9
10	240.6	154	10
11	210.5	151	11
12	177.7	149	12
14	144.2	145	14
16	117.4	121	16
18	98.1	102	18
20	83.5	87.6	20
22	71.6	76.1	22
24		66.9	24
26		59.3	26
28		52.9	28
30		47.5	30
32		42.8	32
34		38.7	34

SCC4000A Shield (FJh) Configuration

Boom to jib angle 20°, rear counterweight 150t, center counterweight 40t

Boom Length (m) / jib length/m / radius/m	24 / 12 Main hook capacity (empty aux. hook)	24 / 12 Aux. hook capacity (empty main hook)	Boom Length (m) / jib length/m / radius/m
6	390.5		6
7	350.5		7
8	310.9		8
9	270.8		9
10	239.6	144	10
11	209.5	143	11
12	176.7	142	12
14	143.2	139	14
16	116.4	123	16
18	97.1	103	18
20	82.5	88.5	20
22	70.6	77	22
24		67.6	24
26		59.9	26
28		53.5	28
30		47.9	30
32		43.1	32
34		38.9	34

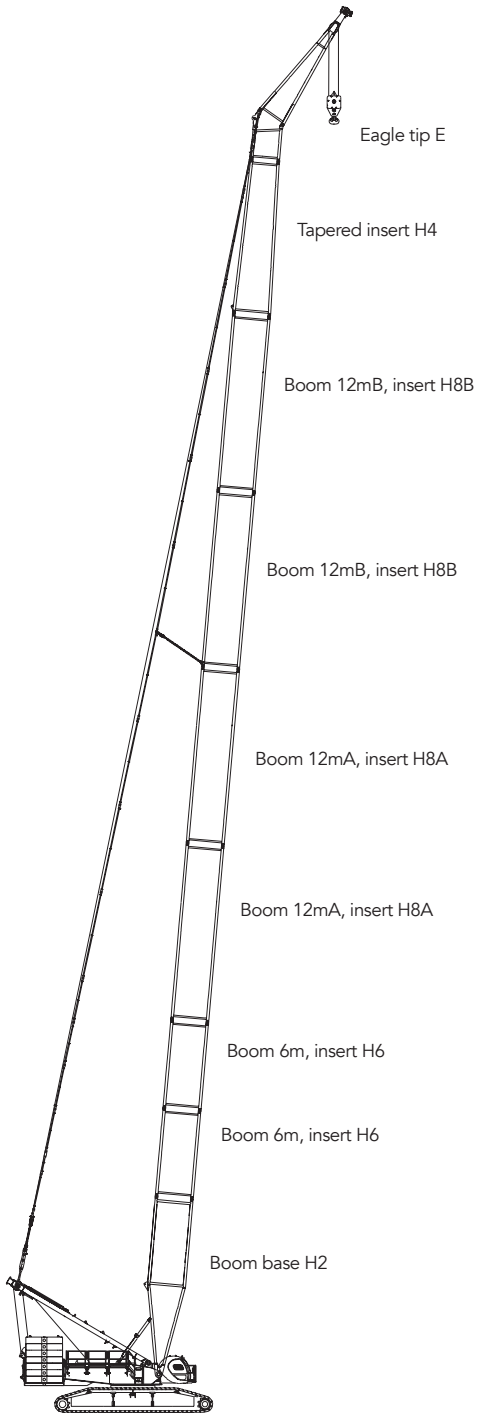
Notes:
1. Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

HE Configuration

HE Boom Combination

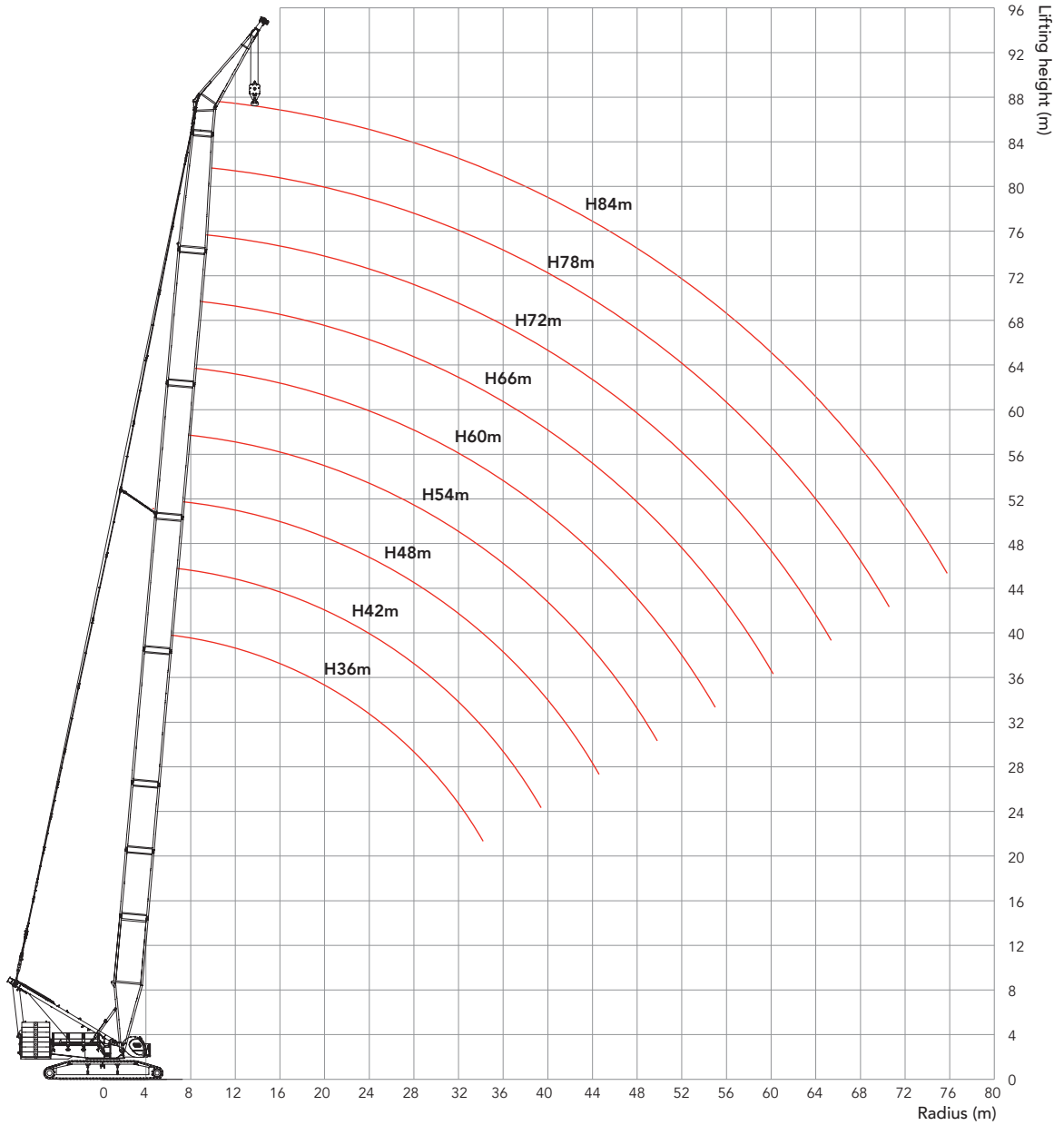
Boom length (m)	Insert		
	6 m	12mA	12mB
36	2	—	—
42	1	1	—
48	2	1	—
54	1	2	—
60	2	2	
66	1	2	1
72	2	2	1
78*	1	2	2
84*	2	2	2

Mid-suspension cable must be used for boom of 78 and 84m, otherwise, there is danger of boom breaking.
Note: the configurations with 78m boom and above must erect from side with side outriggers, otherwise the crane may tip over.



HE (36m-84m)

Working radius of HE



Unit: t

Load Chart of HE

SCC4000A -HE										
Boom 36-84m, eagle tip 9m (30°), rear counterweight 150t, center counterweight 40t										
Radius (m)	36	42	48	54	60	66	72	78	84	Radius (m)
15	136	131	125	121	116	112	107	103		15
16	126	121	117	112	108	104	100	96.6	92.9	16
17	118	113	109	105	101	97.7	94	90.7	87.2	17
18	110	106	102	98.7	95	91.8	88.3	85.2	82	18
19	104	99.9	96.3	92.8	89.4	86.4	83.2	80.3	77.3	19
20	97.5	94.2	90.8	87.6	84.3	81.5	78.5	75.8	72.9	20
22	85.4	84.2	81.2	78.3	75.5	73	70.3	67.9	65.3	22
24	75.5	74.9	73.1	70.6	68	65.8	63.3	61.1	58.7	24
26	67.4	66.8	66	63.9	61.5	59.5	57.2	55.3	53	26
28	60.6	60	59.2	58.2	56	54.2	52	50.2	48.1	28
30	54.8	54.3	53.5	52.8	51.1	49.4	47.4	45.7	43.7	30
32	49.8	49.3	48.5	47.8	46.8	45.3	43.3	41.7	39.8	32
34	45.4	44.9	44.2	43.5	42.6	41.5	39.7	38.2	36.4	34
36	41.6	41.1	40.4	39.7	38.8	38.2	36.4	35	33.2	36
38	38.1	37.7	37	36.3	35.4	34.9	33.5	32.1	30.4	38
40	35.1	34.7	34	33.3	32.4	31.9	30.8	29.5	27.8	40
44		29.5	28.8	28.2	27.3	26.8	25.9	24.9	23.3	44
48			24.5	23.9	23.1	22.6	21.7	21.1	19.5	48
52			20.8	20.3	19.5	19	18.1	17.5	16.3	52
56				17.2	16.4	16	15.1	14.5	13.4	56
60					13.8	13.4	12.5	11.9	11	60
64						11.1	10.2	9.6	8.7	64
68							8.2	7.6	6.7	68
72							6.4	5.8	4.9	72
76								4.2	3.3	76

Notes:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily without traveling.

Zhejiang Sany Equipment Co.,LTD

Sany Industrial Park, No.2087 Daishan Road, Wuxing District, Huzhou, Zhejiang Province, China Zip 313028
Service hotline 400 887 8318
Complaints hotline 400 887 9318

— Gent information —

Reminder:
For safe and reliable operation of the diesel engines, please fill Grade IV machines with Grade IV diesel and urea solution conforming to related national standards. Please refer to the operating instructions and related standards for details.

© Printed in November 2018 in China

www.sany.com.cn

Instantly scanning for reading more