



SCC4000A

SANY Crawler Crane
400 Tons Lifting Capacity

Quality Changes the World





Crawler Crane Series
SCC4000A

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Main Characteristics

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Driver's cab



Comfortability

- Fully-enclosed steel frame structure is adopted, and the front, side, and the top of the cab are installed with large-range high-strength tempered glass, which provides good light permeability. The driver's cab is featured with bright and capacious interior and wider vision. Multimode and multilevel adjustable seat (including damping, noise reduction, and suspension type) is available, providing the most comfortable driving experiences for the operator. Air conditioning is provided to adjust the indoor temperature to a proper figure. The right and left armrests as well as the auxiliary operating box are installed with operating handles, control buttons, ignition lock and other components. The distribution of the seat, operating handle, and various control buttons shall be designed based on ergonomics, where the seat can be adjusted to the most favorable position to make the operation more comfortable. The driver's cab can be adjusted according to work demands so as to realize 0~25° tilting, or rotate to the dead ahead of the rotating bed to facilitate the transportation.

Control System

- SYIC-1 integrated control system independently researched and developed by Sany is adopted, with high system integration, accurate operation, and reliable quality. The control system mainly includes power system, engine system, master control system, moment limiter system, auxiliary system, and security monitoring system.
- Main electric components are from internationally or industrially well-known brands with reliable quality, which can steadily operate in such bad environment as severe cold, high temperature, plateau, and sandstorms. Electrical design fully comply with CE standards, with multiple safety limit control and comprehensive safety indicators.
- Load Moment Limiter, integrated control panel display and CCTV are located in the direct vision of operator. LML is used to monitor the load moment and other parameters of machine; integrated control panel displays the operation of crane, control parameters and alarm of each monitored points; CCTV is used to monitor winch movement and tail of rotating bed in real time. There are three control handles on the left and right armrest box. Their functions are switched by handle buttons. Selected function and handle opening are shown on the display.

CCTV Monitoring System

- CCTV monitoring system with double display screens and multiple cameras of which each screen can simultaneously display four monitoring pictures at most. Real-time monitoring of the winding conditions of steel wire ropes of each hoisting mechanism, the conditions of superlift weight, and conditions around the equipment can be realized.
- Video recorder which can store video surveillance images for a maximum duration of 76h. Configurations of vehicles can be also recorded, and replay of accident serving as evidence for accident appraisal.

Upperworks



Engine

- Cummins (Euro Tier-III emission standard)
- Rated power: 298Kw;
- Rated speed: 1,800rpm;
- Max. output torque: 1898N·m;
- Speed at maximum output torque: 1,400rpm.

Hoisting 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

Luffing Hoisting 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

Slewing Gear

- Dual-motor is adopted for the swing hydraulic system to drive the spur gear drive through a planetary gear reducer and enables 360° rotation. The swing speed is 0~1rpm, which is infinitely variable. The swing, free of starting and stopping impact, operates steadily and is equipped with neutral free slipping function. Slewing bearing is three-cylindrical roller bearing with external engagement.

Lower Structure



Base

- 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. The self-assembled center counterweight is 40t, with 20t at both front and the rear.

Track 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.

Weight



- 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)
Center counterweight	2	6.34	1.72	0.6	20
Rear Counterweight Tray	2	2.7	2.9	1.8	5
Rear Counterweight	14	2.49	2.35	0.534	10
Superlift Counterweight Tray	1	8.5	2.5	4.4	10
Superlift counterweight	20	2.49	2.35	0.555	10



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.
- 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 shall be installed 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.

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 96m.
- Composition: jib base 10.5m×1, jib insert 6m×3, jib insert 12m×4, and jib top 7.5m×1.
- The extension jib shall be installed on the luffing 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	1.9
50t hook	50t	1	2	2.4
16t ball hook	16t	1	-	0.9

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

Hydraulic System



- The whole hydraulic system includes that of hoisting, traveling, slewing, luffing, servo, back-stop, cooling system, and auxiliary hydraulic system. Major hydraulic components are original imports.
- Features: lifting, traveling, luffing, and slewing hydraulic systems are applied with closed circuits, which has advantages such as energy saving, high efficiency, instant responsiveness, low heat generation and long service life.
- Electrically-controlled proportional control components are adopted for the servo system to realize precise and intelligent control.
- External controlled and outflow balance valve is adopted for the back-stop system, which ensures the safety and reliability.
- The cooling hydraulic system is featured with large heat exchange power and good cooling effect.

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 Pressure



- The average ground pressure of machine with basic boom is 0.173MPa.

Gradeability



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

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 elevation angle of the boom exceeds 85° or jib angle exceeds 75° , 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 down angle is less than 30° or jib down angle is less than 15°, 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.

Safety Devices



Pharos

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

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.

Main Performance Parameters



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400 TONS LIFTING CAPACITY**

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Technical Parameters

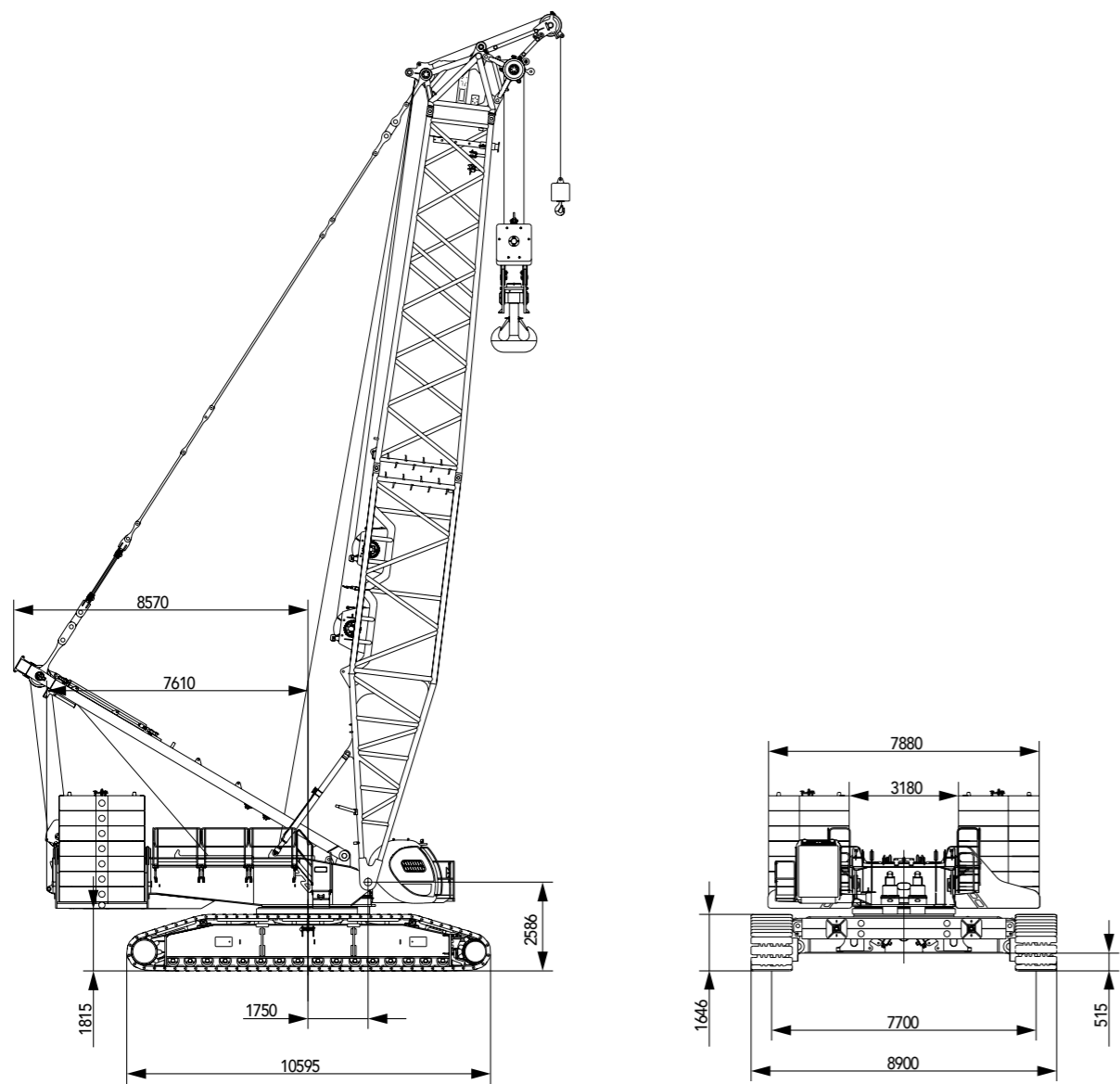
- Page 11 Main Performance Parameters
- Page 12 Basic Dimensions of Crane
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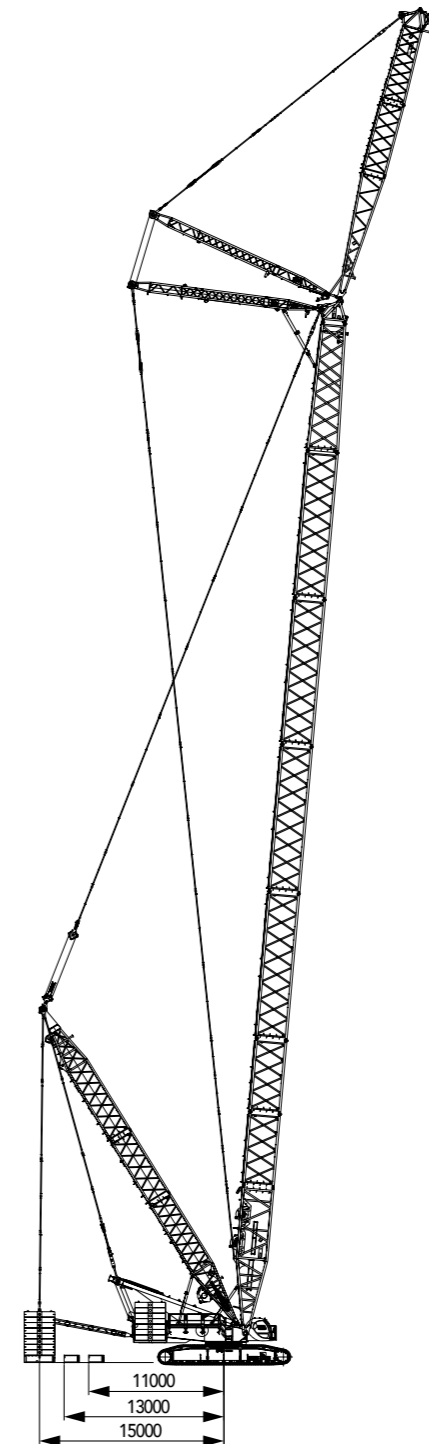
SCC4000A Major Performance Specifications

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	5250
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	90+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
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	0.173
Rear weight of the main body	t	150 (without superlift)/130 (with superlift)
Superlift weight (including pallet)	t	230
Center weight	t	40
Max. unit transportation dimensions (L × W × H)	mm	12100×3000×3200
Max. unit transportation weight	t	45t

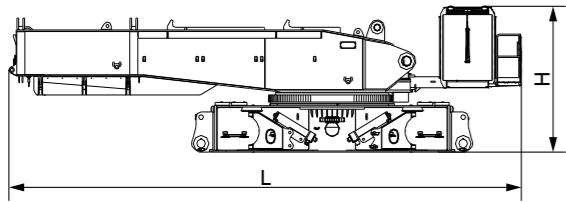
Basic Dimensions of Crane



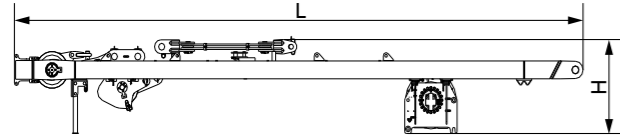
Basic Dimensions of Crane



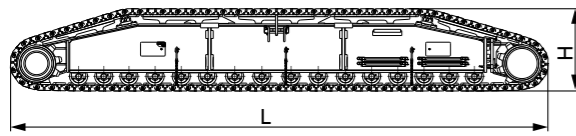
Transportation Dimensions



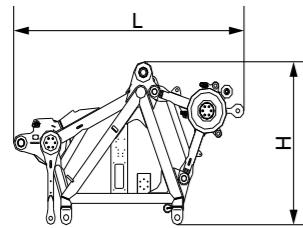
Basic crane	×1
Length(L)	12.1m
Width(W)	3.0m
Height(H)	3.2m
Weight	45t



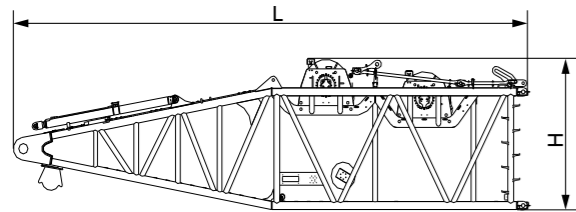
Boom luffing mast (with winch)	×1
Length (L)	11.19m
Width (W)	2.635m
Height (H)	1.632m
Weight	12.11t



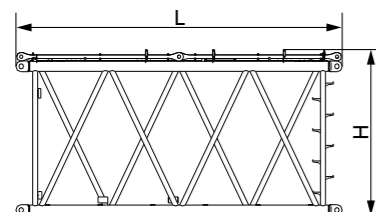
Track frame assembly	×2
Length (L)	10.83m
Width (W)	1.94m
Height (H)	1.65m
Weight (including two main hoisting winches)	36t



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

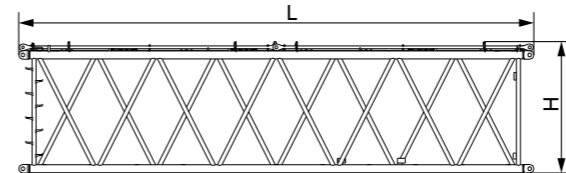


Boom base (with two main hoist winches)	×1
Length(L)	12.34m
Width(W)	3.00m
Height(H)	3.198m
Weight	18.78t

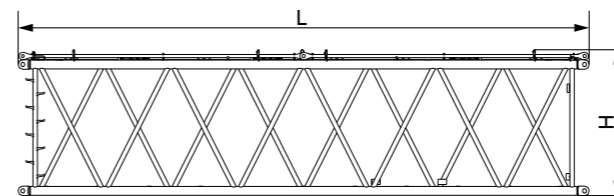


6m boom insert	×2
Length(L)	6.20m
Width(W)	3.00m
Height(H)	2.77m
Weight	3.24t

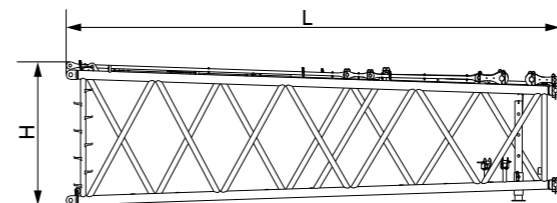
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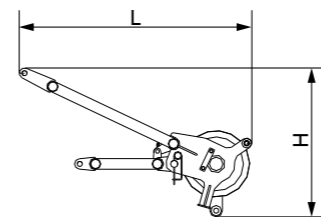
12m boom insert A	×2
Length(L)	12.2m
Width(W)	3.0m
Height(H)	2.77m
Weight	5.75t



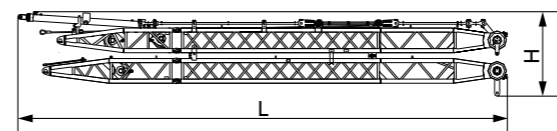
12m insert B	×2
Length(L)	12.2m
Width(W)	3.0m
Height(H)	2.77m
Weight	5.26t



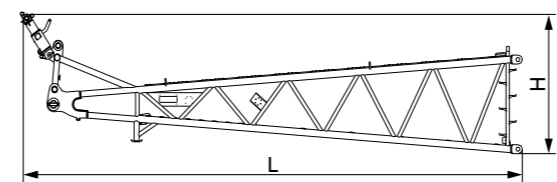
Boom tapered insert	×1
Length(L)	10.7m
Width(W)	2.98m
Height(H)	2.74m
Weight	5.86t



Extension jib	×1
Length(L)	2.32m
Width(W)	1.00m
Height(H)	0.818m
Weight	0.37t

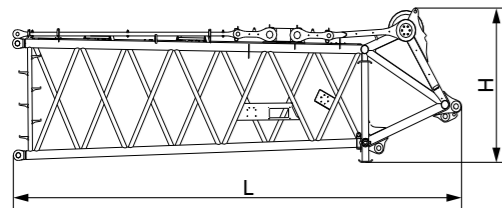


Front and rear masts of the luffing jib	×1
Length (L)	16.8m
Width (W)	3.1m
Height (H)	2.87m
Weight (with auxiliary luffing hoist)	10.8t

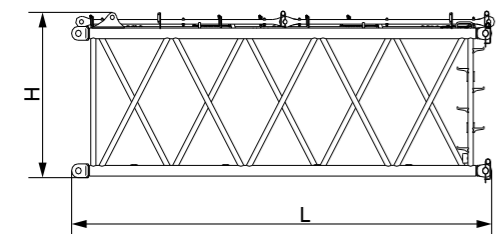


Luffing jib base	×1
Length(L)	11.28m
Width(W)	2.62m
Height(H)	2.78m
Weight	3.9t

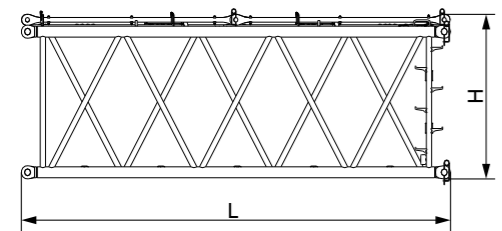
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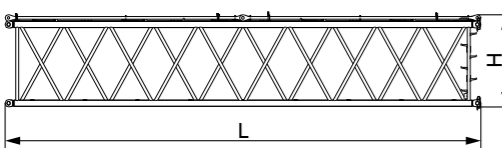
Luffing jib tip	×1
Length(L)	8.13m
Width(W)	2.54m
Height(H)	2.48m
Weight	4.34t



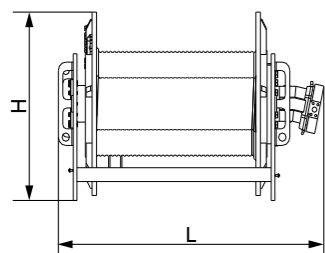
6m luffing jib insert A	×1
Length(L)	6.19m
Width(W)	2.82m
Height(H)	2.165m
Weight	1.97t



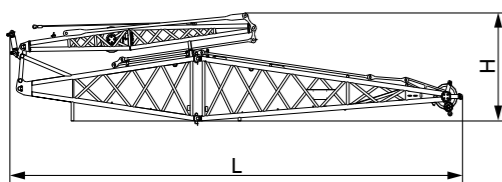
6m luffing jib insert B	×2
Length(L)	6.18m
Width(W)	2.82m
Height(H)	2.11m
Weight	1.91t



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

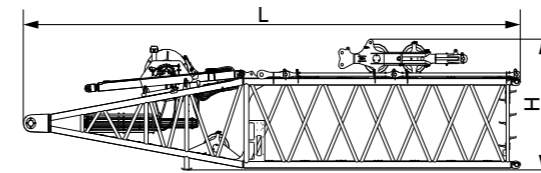


Jib luffing winch	×1
Length(L)	1.79m
Width(W)	1.22m
Height(H)	1.13m
Weight	4.55t

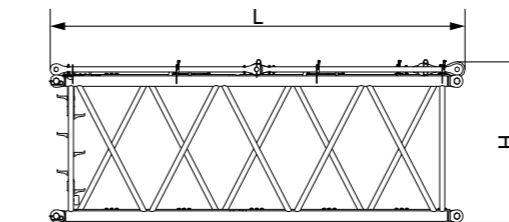


Fixed jib base	×1
Length(L)	12.72m
Width(W)	2.43m
Height(H)	2.71m
Weight	4.24t

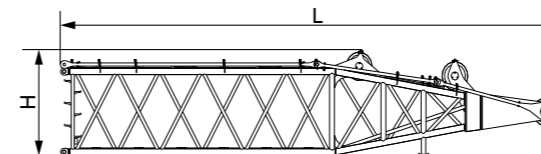
Transportation Dimensions



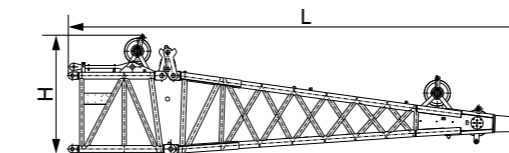
Superlift mast base (with winch)	×1
Length (L)	12.27m
Width (W)	2.955m
Height (H)	2.84m
Weight	13.5t



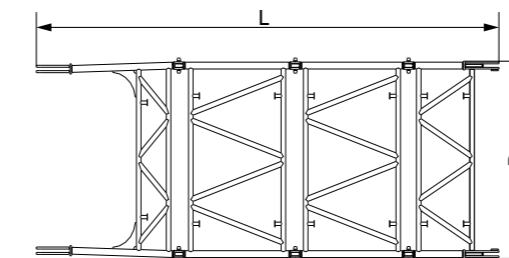
Superlift mast insert	×1
Length(L)	6.21m
Width(W)	2.96m
Height(H)	2.14m
Weight	2.8t



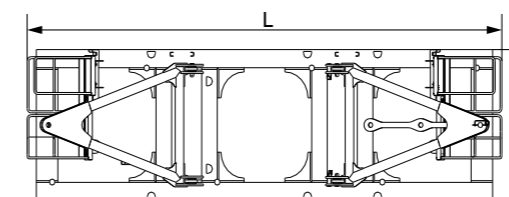
Superlift mast tip	×1
Length(L)	12.5m
Width(W)	2.94m
Height(H)	2.375m
Weight	8.5t



Eagle tip	×1
Length(L)	11.67m
Width(W)	2.67m
Height(H)	2.914m
Weight	7.26t

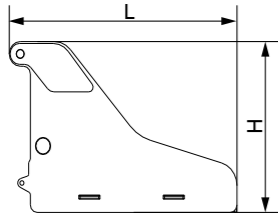


Superlift strut	×1
Length(L)	7.756m
Width(W)	2.93m
Height(H)	0.43m
Weight	1.9t

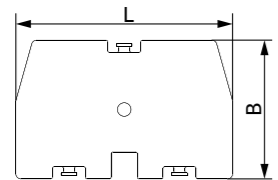


Superlift counterweight tray	×1
Length (L)	8.84m
Width (W)	2.5m
Height (H)	2.9m
Weight	10.3t

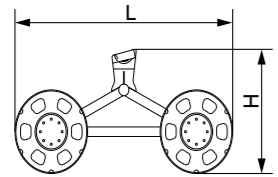
Transportation Dimensions



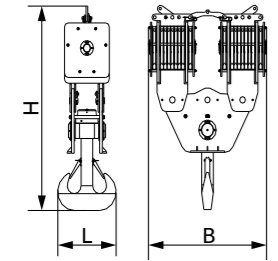
Rear counterweight tray	×2
Length(L)	2.7m
Width(W)	2.9m
Height(H)	1.8m
Weight	5t



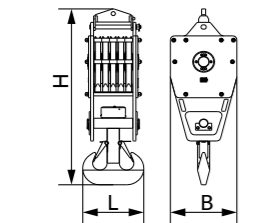
10t counterweight block	×34
Length(L)	2.94m
Width(W)	2.35m
Height(H)	0.555m
Weight	10t



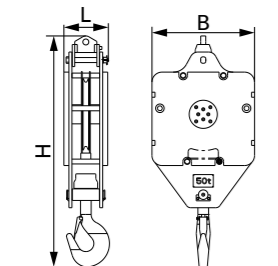
Trolley	×1
Length(L)	3.3m
Width(W)	2.0m
Height(H)	1.61m
Weight	1.9t



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

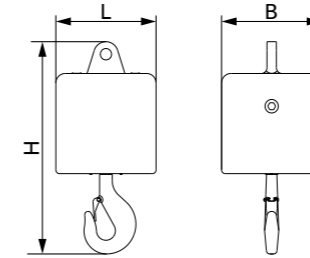


130T hook	×1
Length(L)	0.75m
Width(W)	0.82m
Height(H)	2.28m
Weight	1.92t

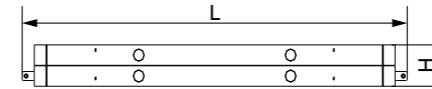


50T hook	×1
Length(L)	0.45m
Width(W)	1.02m
Height(H)	2.30m
Weight	1.7t

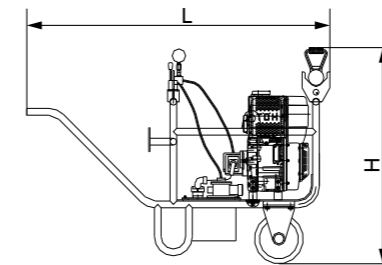
Transportation Dimensions



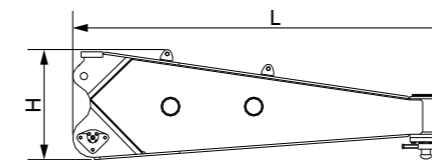
16T ball hook	×1
Length(L)	0.53m
Width(W)	0.53m
Height(H)	1.10m
Weight	0.9t



Center counterweight	×1
Length(L)	6.34m
Width(W)	1.716m
Height(H)	5.98m
Weight	20t



Portable power plant	×1
Length(L)	1.55m
Width(W)	0.7m
Height(H)	1.09m
Weight	0.2t

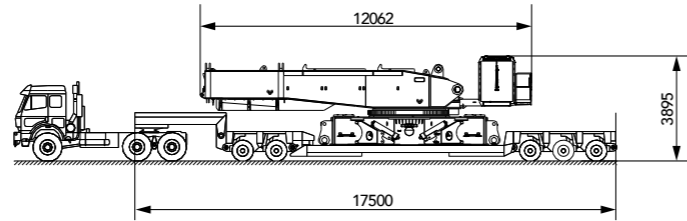


Side outrigger	×2
Length(L)	3.42m
Width(W)	0.99m
Height(H)	0.78m
Weight	1.1t

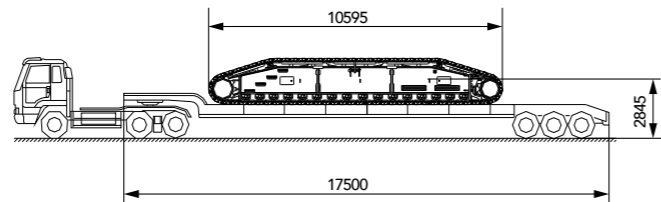
Note:
1.The dimension listed is schematic, which is not proportional. All the dimensions are designed values without packing.
2.The dimensions are subject to deviation due to manufacturing tolerances.

Transport Plan

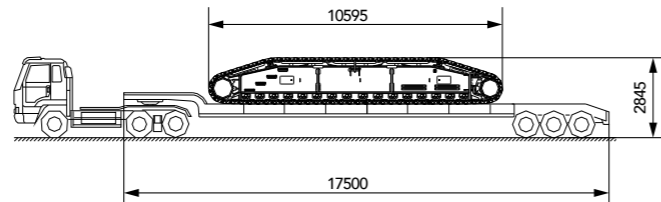
Trailer	<ul style="list-style-type: none"> Length 17.5m, Width 2.5m, Height 0.576m, Rated load 60t
Transport weight	45t
Part	Base machine
Truckload	1



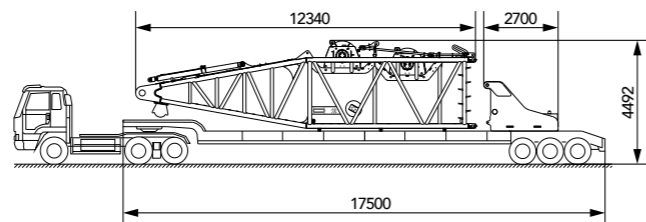
Trailer	<ul style="list-style-type: none"> Length 17.5m, Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	36t
Part	Track frame assembly
Truckload	1



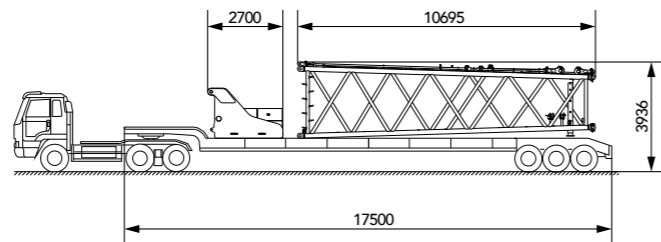
Trailer	<ul style="list-style-type: none"> Length 17.5m, Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	36t
Part	Track frame assembly
Truckload	1



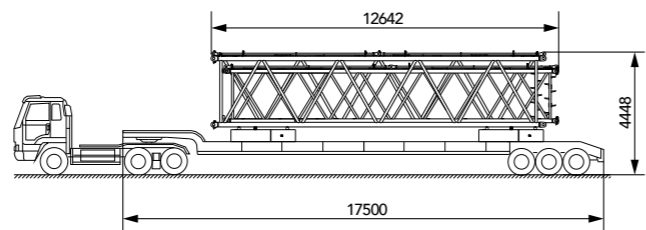
Trailer	<ul style="list-style-type: none"> Length 17.5m, Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	33.78t
Part	<ul style="list-style-type: none"> Boom base, 10t counterweight block x1, rear counterweight tray
Truckload	1+1+1



Trailer	<ul style="list-style-type: none"> Length 17.5m, Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	30.86t
Part	<ul style="list-style-type: none"> Boom top, 10t counterweight block, rear counterweight tray
Truckload	1+2+1

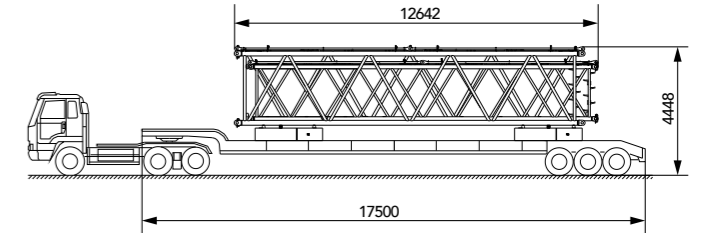


Trailer	<ul style="list-style-type: none"> Length 17.5m, Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	29.16t
Part	<ul style="list-style-type: none"> Boom insert A 12m, 12m luffing jib insert, 10t counterweight block
Truckload	1+1+2

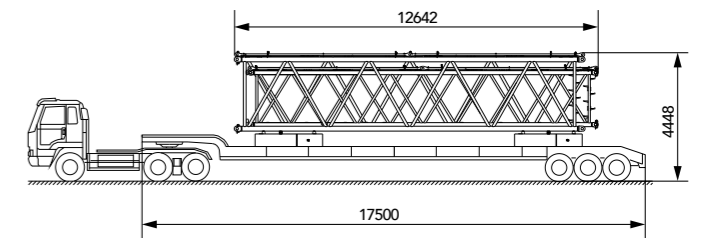


Transport Plan

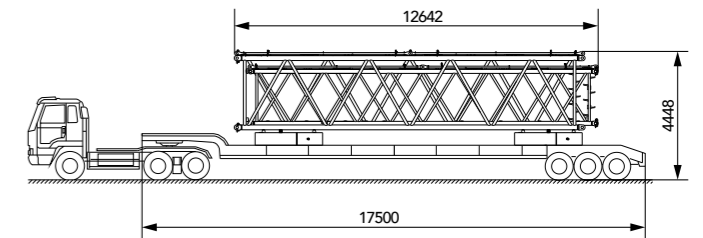
Trailer	<ul style="list-style-type: none"> Length 17.5m, Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	29.16t
Part	<ul style="list-style-type: none"> Boom insert A 12m, 12m luffing jib insert, 10t counterweight block
Truckload	1+1+2



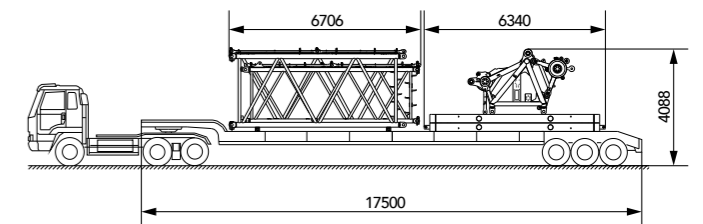
Trailer	<ul style="list-style-type: none"> Length 17.5m, Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	35.93t
Part	<ul style="list-style-type: none"> Boom insert B 12m, 12m luffing jib insert, Eagle tip, 10t counterweight block
Truckload	1+1+1+2



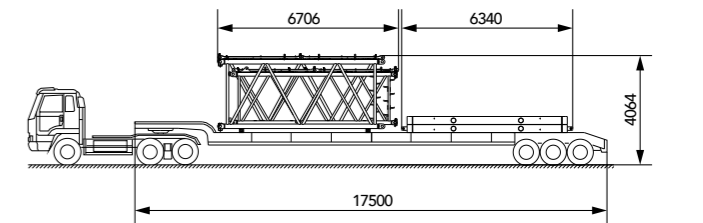
Trailer	<ul style="list-style-type: none"> Length 17.5m, Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	30.89t
Part	<ul style="list-style-type: none"> Boom insert B 12m, 12m luffing jib insert, Eagle tip, 10t counterweight block
Truckload	1+1+2+2



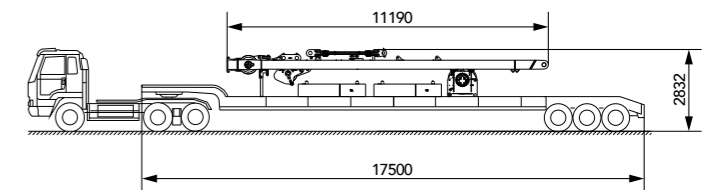
Trailer	<ul style="list-style-type: none"> Length 17.5m, Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	29t
Part	<ul style="list-style-type: none"> 6m main boom, 6m jib B, center counterweight block, connecting tip and sheave block
Truckload	1+1+2+1



Trailer	<ul style="list-style-type: none"> Length 17.5m, Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	36.05t
Part	<ul style="list-style-type: none"> 6m main boom, 6m jib B, center counterweight block, 400t hook block
Truckload	1+1+2+1

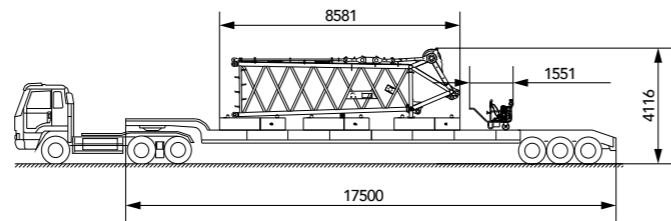


Trailer	<ul style="list-style-type: none"> Length 17.5m, Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	32.11t
Part	<ul style="list-style-type: none"> Boom luffing mast and boom luffing winch, 10t counterweight block
Truckload	1+2

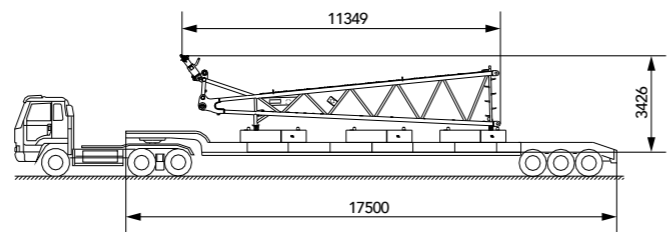


Transport Plan

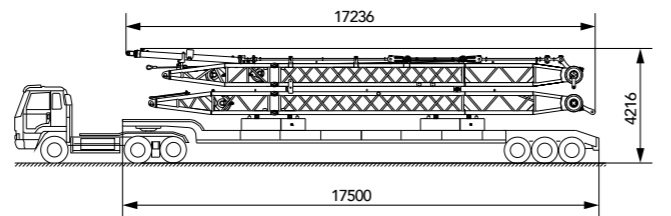
Trailer	<ul style="list-style-type: none"> Length 17.5m,Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	<ul style="list-style-type: none"> 34.54t
Part	<ul style="list-style-type: none"> Jib top, 10t counterweight block, portable power plant
Truckload	<ul style="list-style-type: none"> 1+3+1



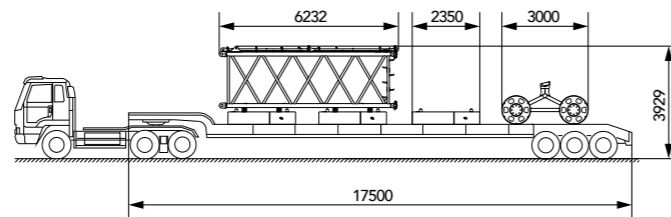
Trailer	<ul style="list-style-type: none"> Length 17.5m,Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	<ul style="list-style-type: none"> 33.9t
Part	<ul style="list-style-type: none"> Jib base, 10t counterweight block
Truckload	<ul style="list-style-type: none"> 1+3



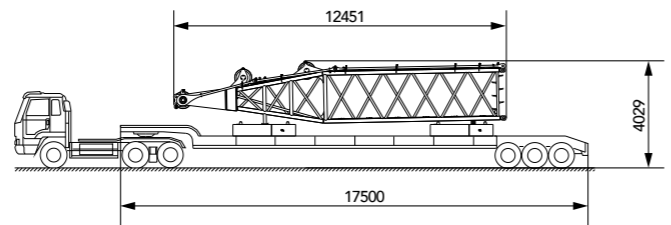
Trailer	<ul style="list-style-type: none"> Length 17.5m,Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	<ul style="list-style-type: none"> 30.8t
Part	<ul style="list-style-type: none"> Front and rear strut of luffing jib, 10t counterweight block
Truckload	<ul style="list-style-type: none"> 1+2



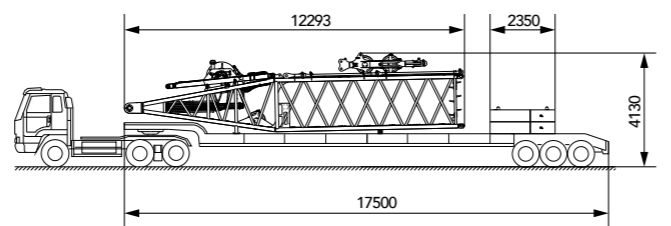
Trailer	<ul style="list-style-type: none"> Length 17.5m,Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	<ul style="list-style-type: none"> 33.87t
Part	<ul style="list-style-type: none"> 6m jib A, 10t counterweight block, trolley
Truckload	<ul style="list-style-type: none"> 1+3+1



Trailer	<ul style="list-style-type: none"> Length 17.5m,Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	<ul style="list-style-type: none"> 35.76t
Part	<ul style="list-style-type: none"> Superlift mast top, 10t counterweight blocks, eagle tip
Truckload	<ul style="list-style-type: none"> 1+2+1

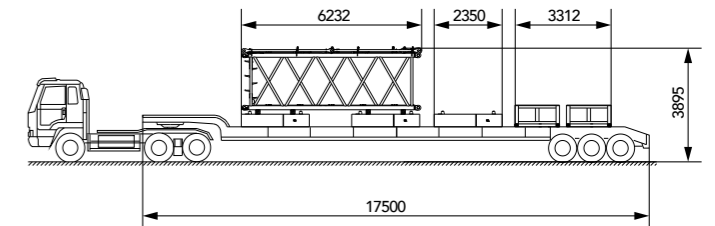


Trailer	<ul style="list-style-type: none"> Length 17.5m,Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	<ul style="list-style-type: none"> 33.5t
Part	<ul style="list-style-type: none"> Superlift mast base, 10t counterweight blocks
Truckload	<ul style="list-style-type: none"> 1+2

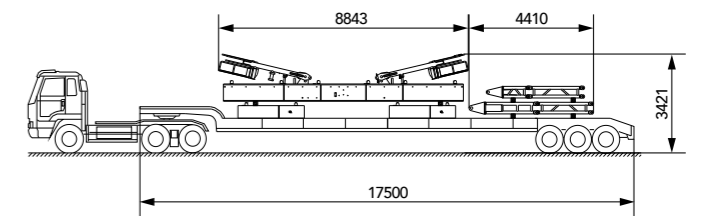


Transport Plan

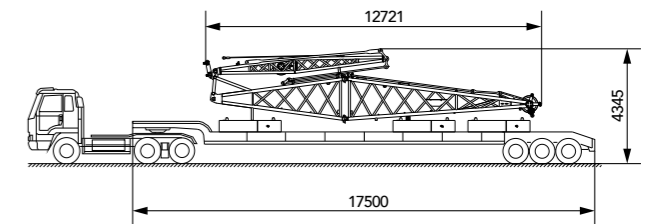
Trailer	<ul style="list-style-type: none"> Length 17.5m,Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	<ul style="list-style-type: none"> 33.8t
Part	<ul style="list-style-type: none"> Superlift mast insert, 10t counterweight block, packing cases
Truckload	<ul style="list-style-type: none"> 1+2+2

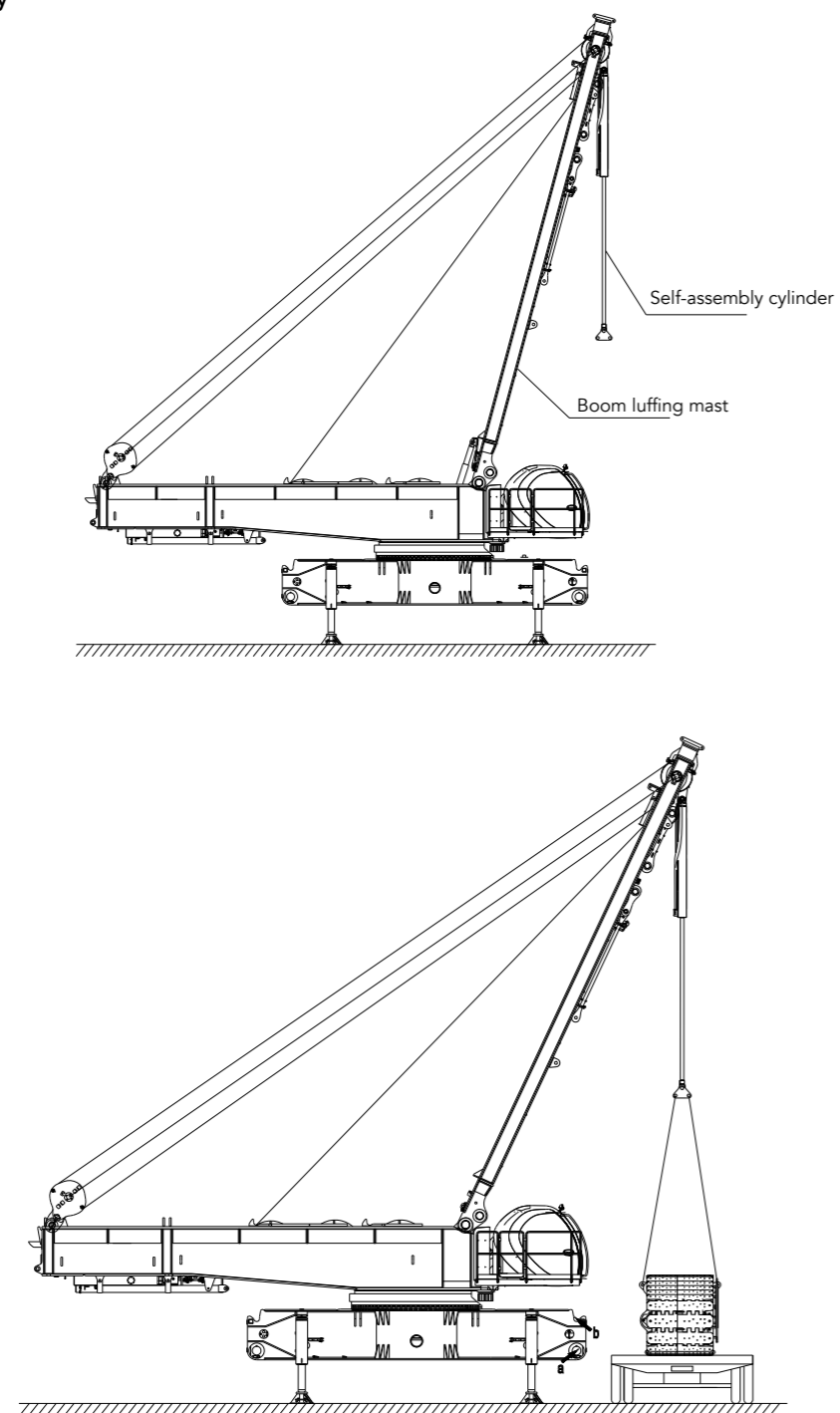


Trailer	<ul style="list-style-type: none"> Length 17.5m,Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	<ul style="list-style-type: none"> 32.2t
Part	<ul style="list-style-type: none"> Superlift counterweight tray, 10t counterweight block, superlift strut
Truckload	<ul style="list-style-type: none"> 1+1+2



Trailer	<ul style="list-style-type: none"> Length 17.5m,Width 2.5m, Height 1.2m, Rated load 35t
Transport weight	<ul style="list-style-type: none"> 34.24t
Part	<ul style="list-style-type: none"> Fixed jib base, 10t counterweight block
Truckload	<ul style="list-style-type: none"> 1+3



Self-Assembly Plan**Track frame self-assembly**

C

SCC4000A SANY CRAWLER CRANE 400 TONS LIFTING CAPACITY

QUALITY CHANGES THE WORLD

Configurations

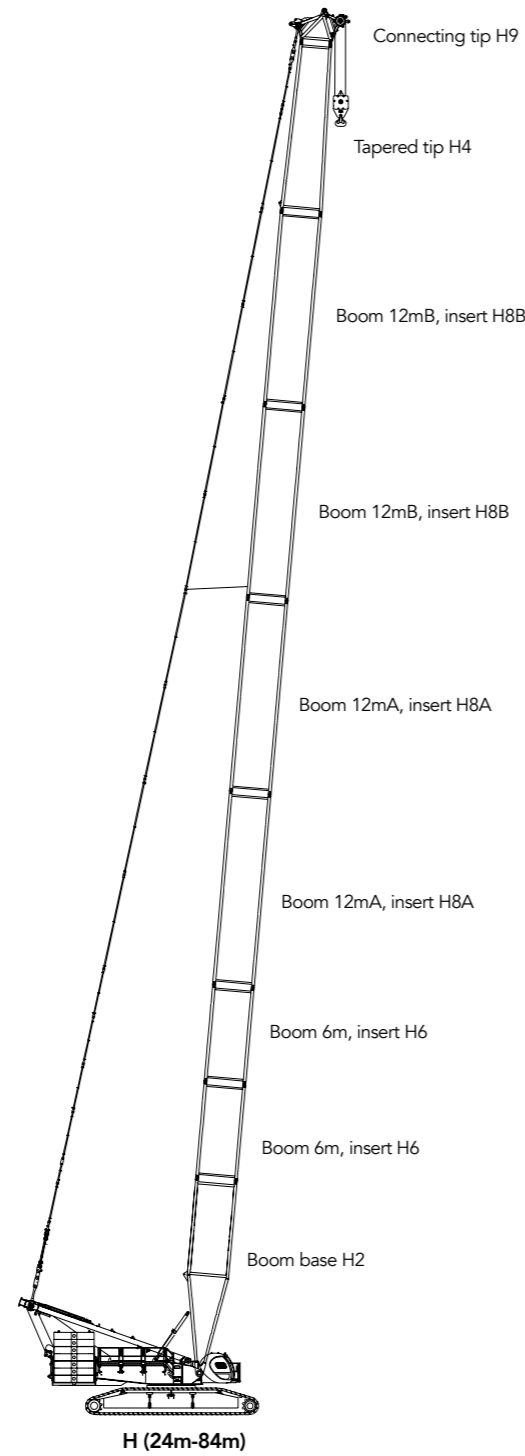
- Page 26 H Configuration
- Page 29 HDB Configuration
- Page 32 HJ Configuration
- Page 35 HJDB Configuration
- Page 38 FJ Configuration
- Page 43 HJFJ Configuration
- Page 48 LJ(DB) Configuration
- Page 66 FJh Configuration
- Page 68 HE Configuration

> 25

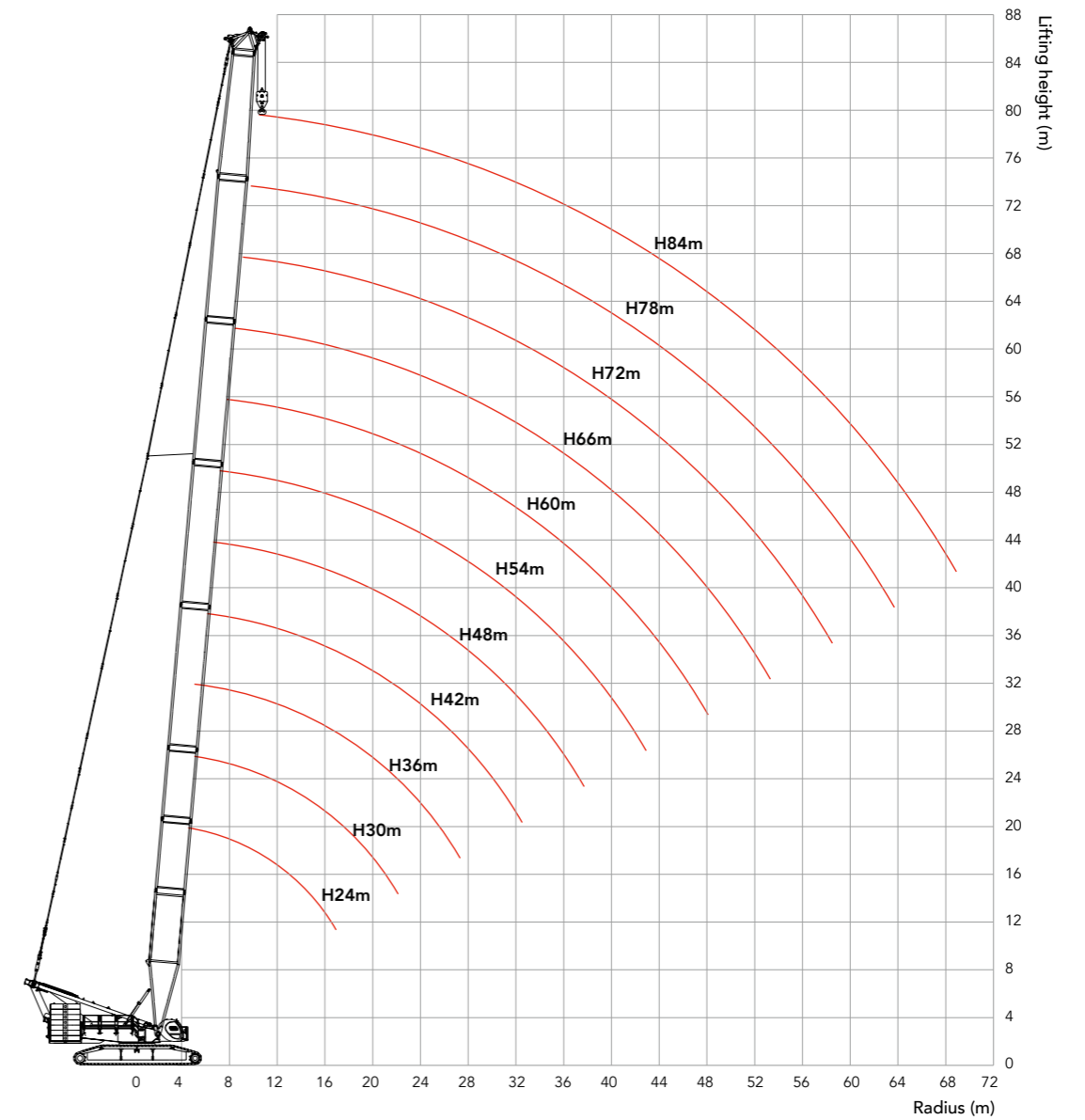
H Boom Combination

Boom Combination in H			
Boom length (m)	6 m	Insert 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 Work Radius



Load Chart of H Configuration

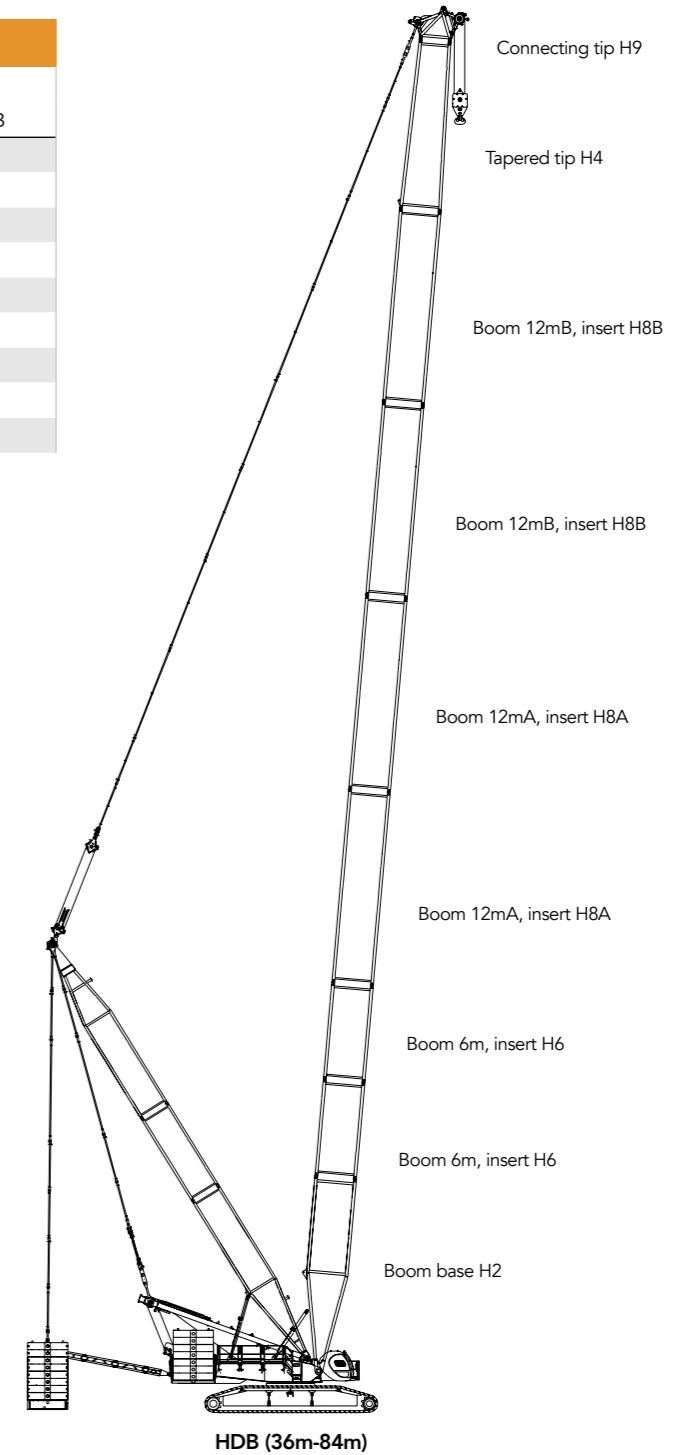
SCC4000A-H Configuration												
Boom length 24-84m, rear counterweight 150t, central counterweight 40t												
Radius (m)	24	30	36	42	48	54	60	66	72	78	84	Radius (m)
7	400	373	343									7
8	340	315	293	273								8
9	291	272	255	240	226	213						9
10	254	239	225	213	202	191	181					10
11	220	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:

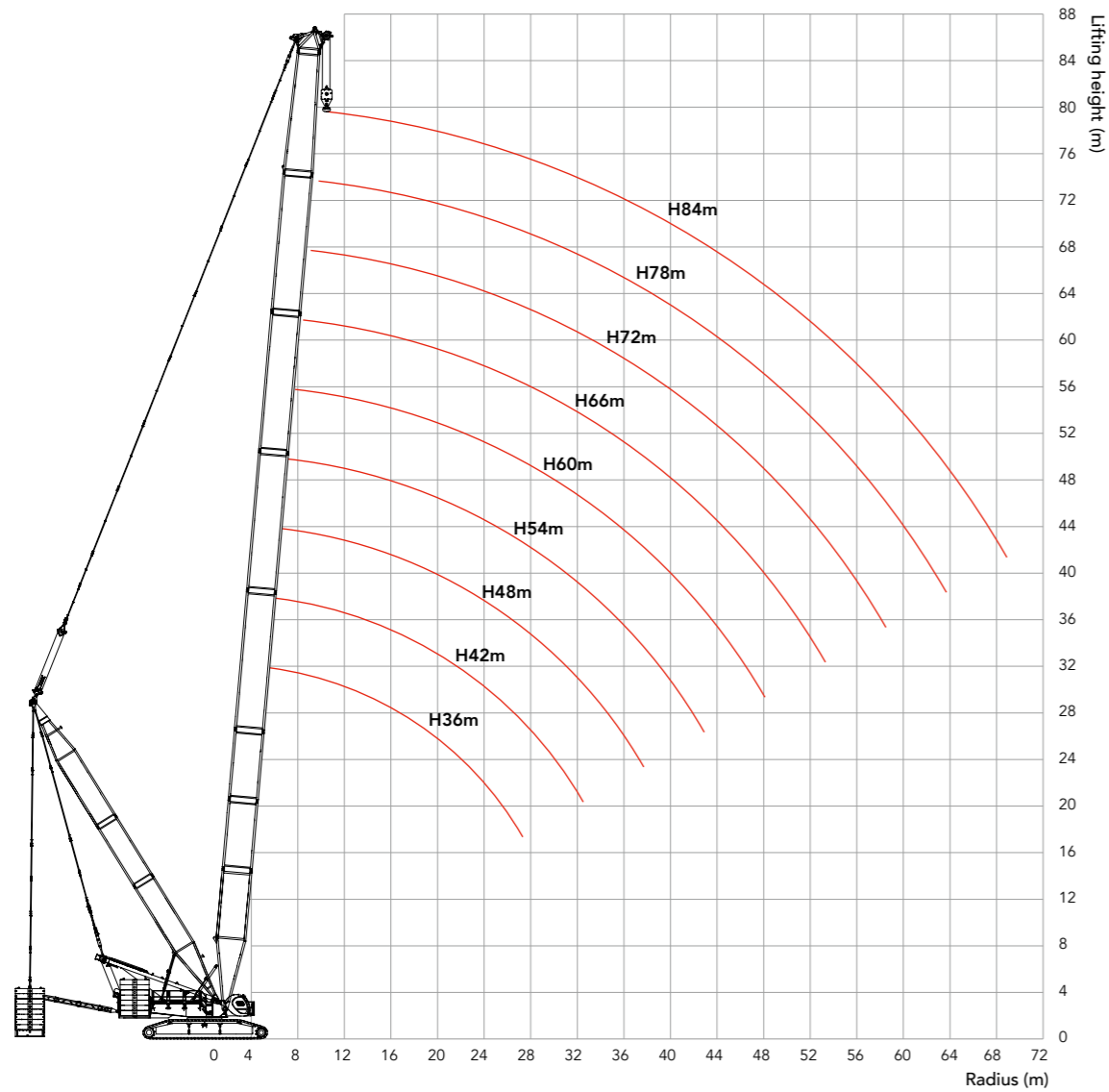
1. Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
2. Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and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

HDB Configuration

HDB Boom Combination			
Boom length (m)	6 m	Insert	
		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



Working Radius in HDB



Load Chart of HDB

Unit: t

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

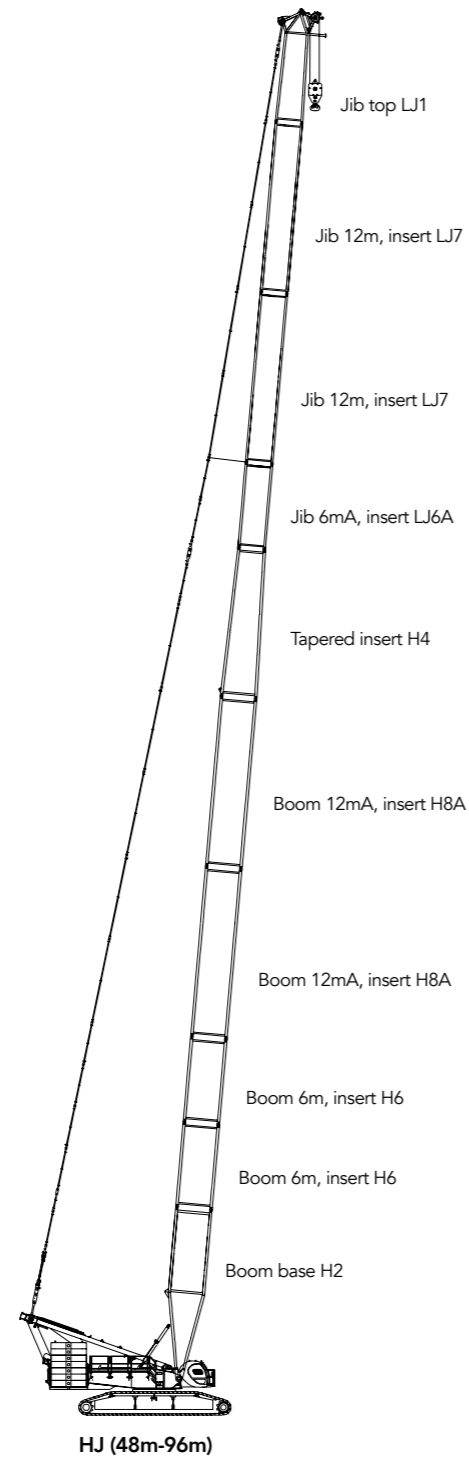
Notes:

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.

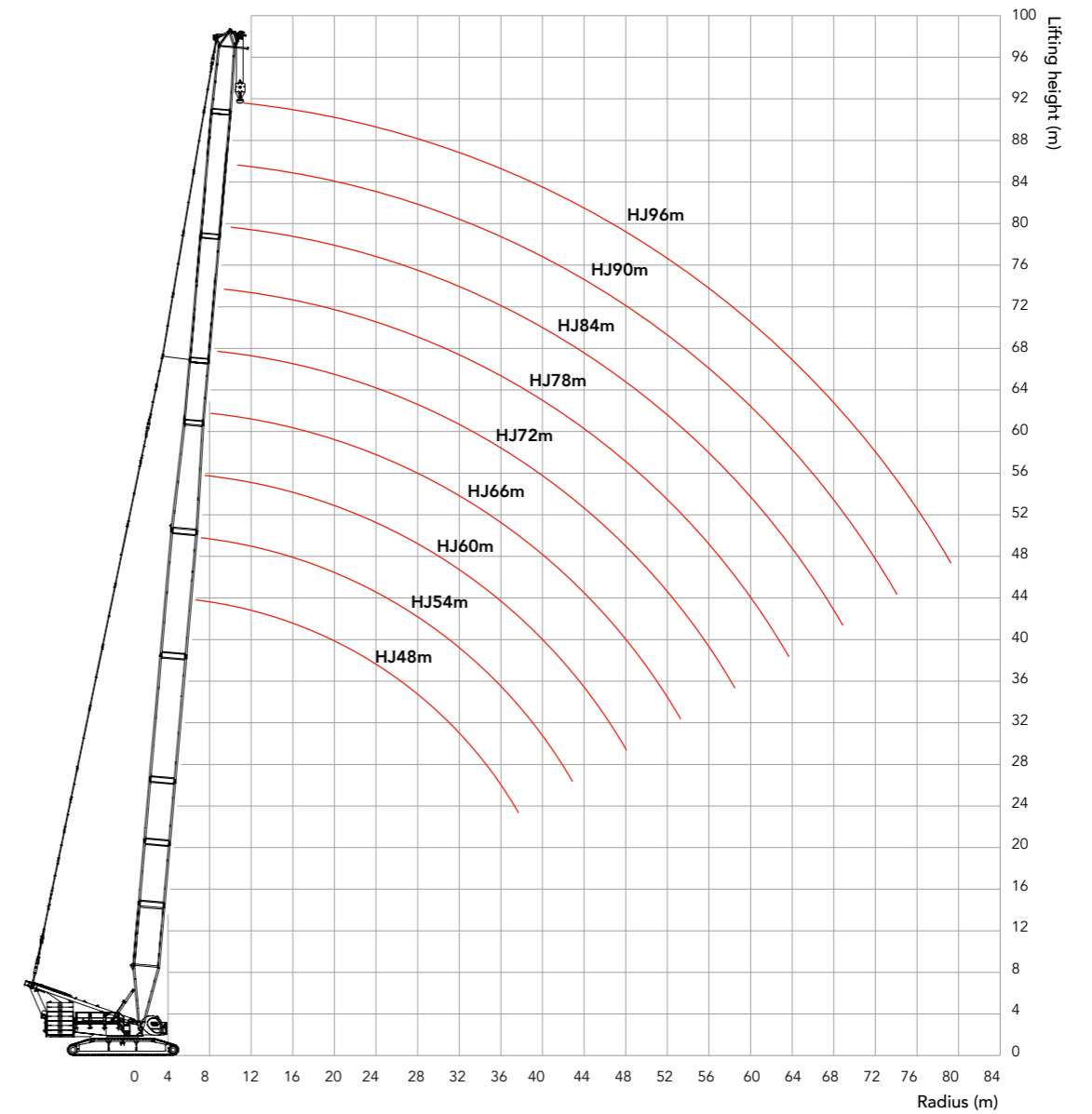
HJ Configuration

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.



Working Radius in HJ



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

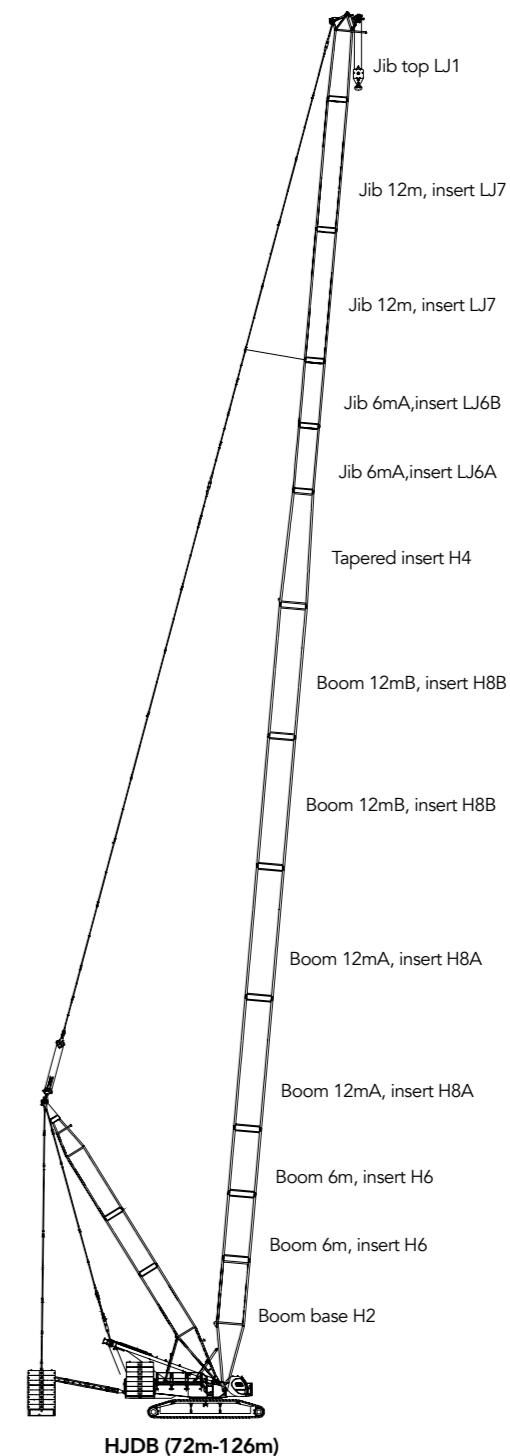
Notes:

- 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

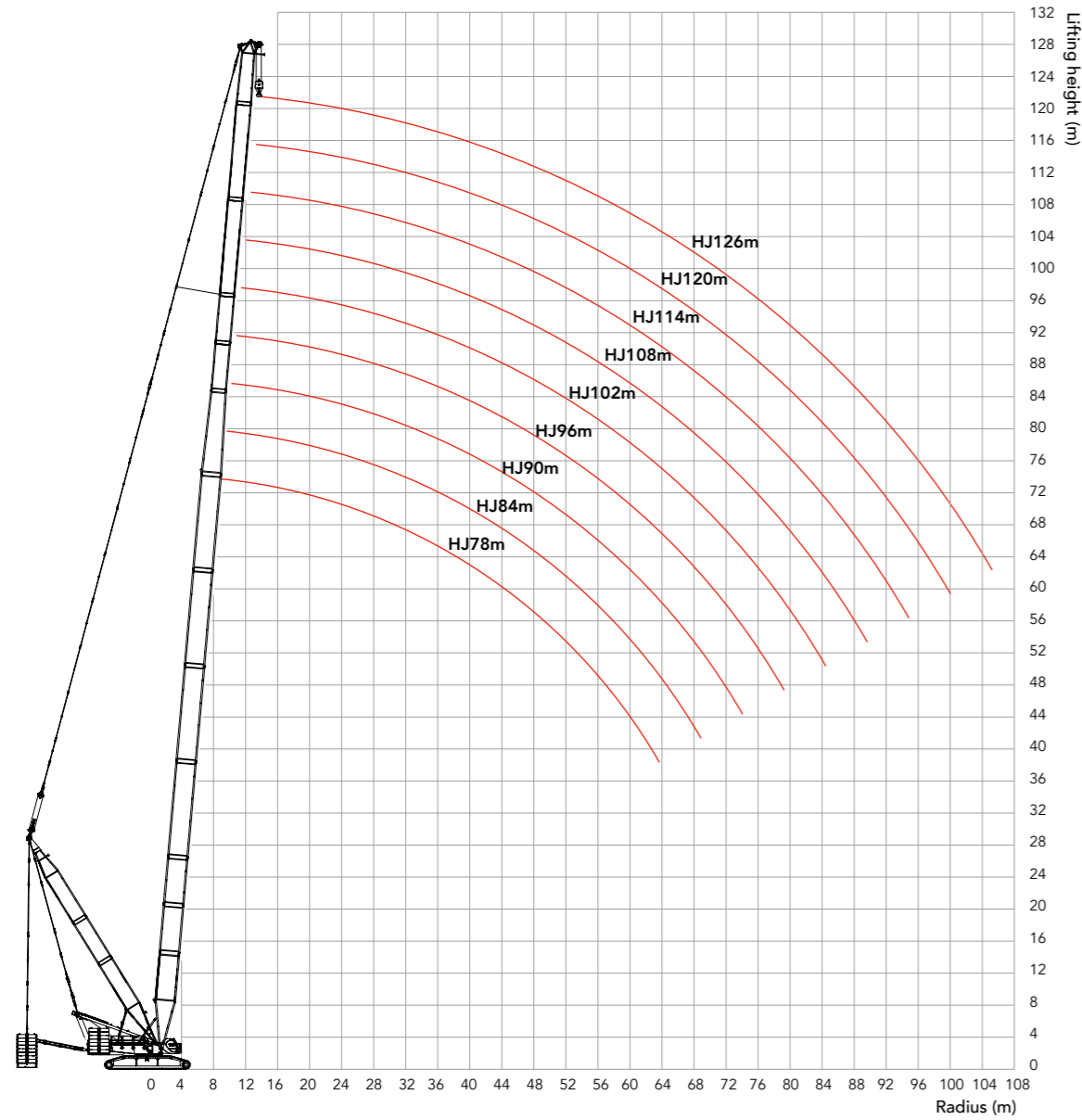
Boom Combination in HJDB						
Boom length (m)	Boom Insert			Jib insert		
	6m	12mA	12mB	6mA	6mB	12m
78	1	2	1	1	-	-
84	2	2	1	1	-	-
90*	1	2	2	1	-	-
96*	2	2	2	1	-	-
102*	2	2	2	1	1	-
108*	2	2	2	1	-	1
114*	2	2	2	1	1	1
120*	2	2	2	1	2	1
126*	2	2	2	1	1	2

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 Radius of HJDB



Load Chart of HJDB

Unit: t

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

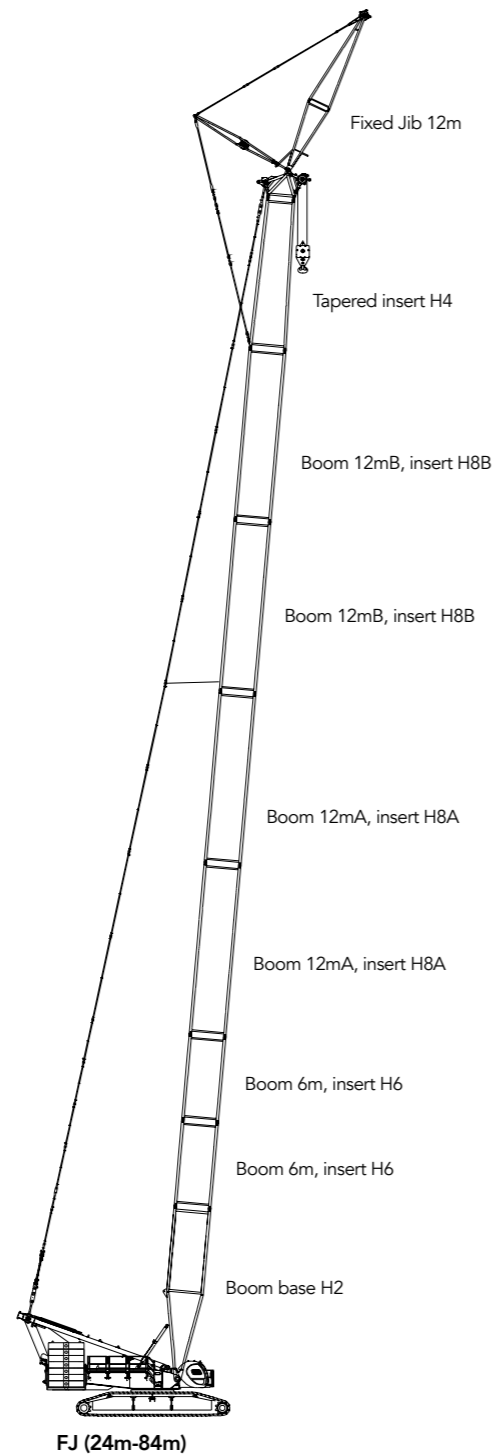
Notes:

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.

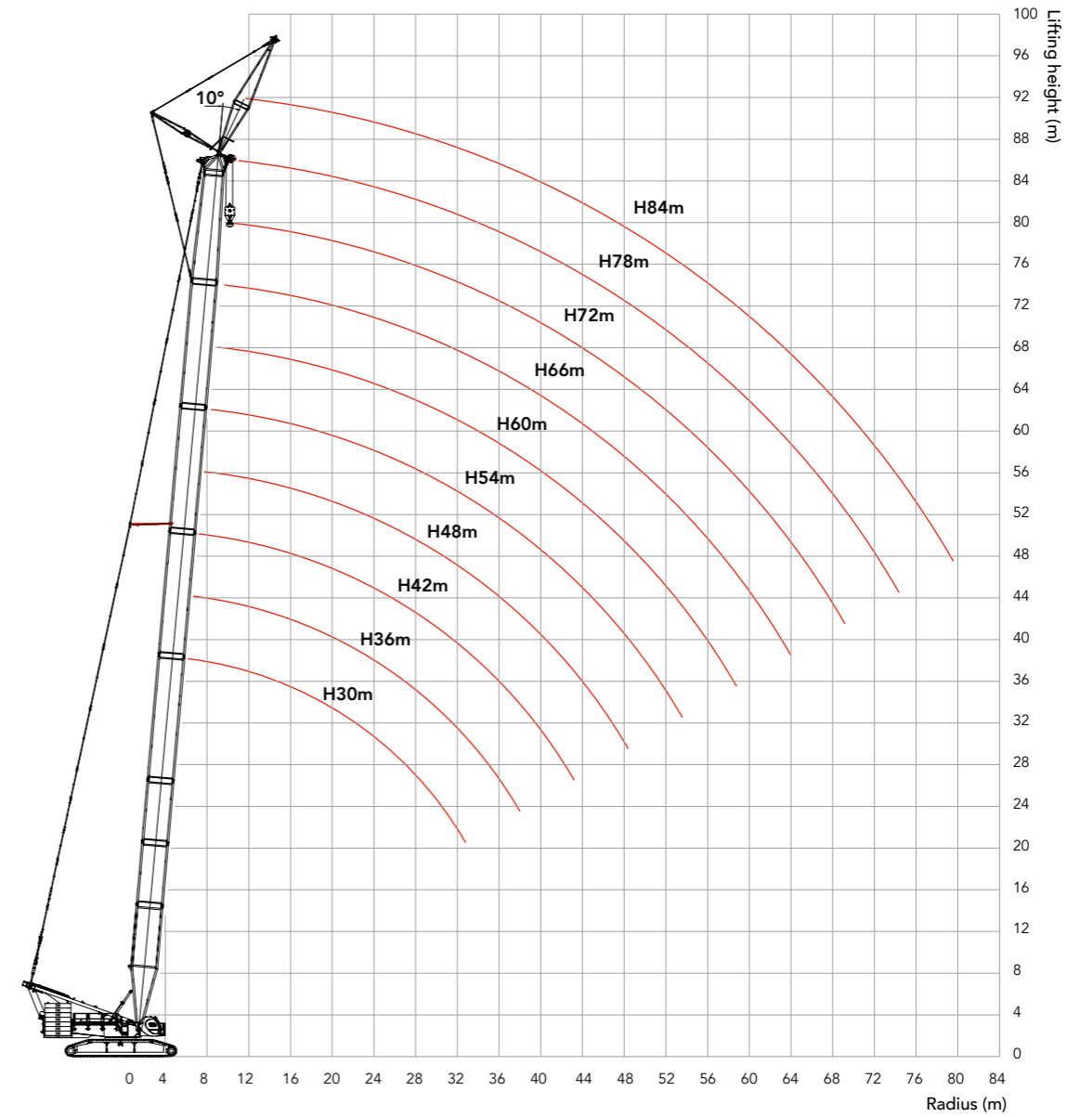
FJ Configuration

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

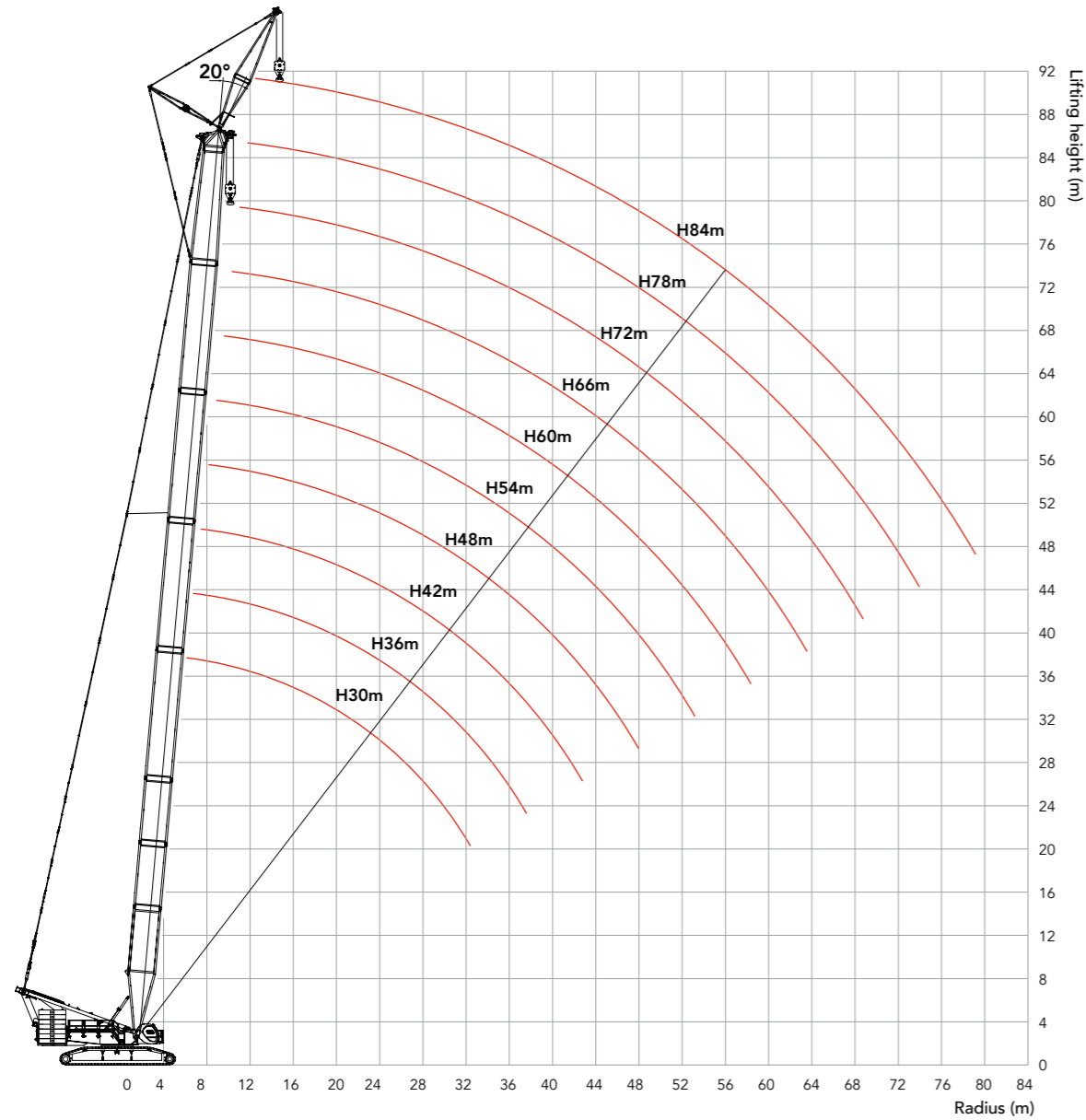
Mid-suspension cable must be used for configurations of 78m and 84m, otherwise there is danger of boom breaking.
Note: Boom at 78m and above must erect from side with side outriggers, otherwise there will be danger of tipping over.



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	60		
64								11.7	11.2	10.3	9.6	64		
68									9.2	8.3	7.7	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.

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	60
64								11.9	11.5	10.6	10	64
68									9.4	8.6	8	68
72										6.7	6.2	72
76											5.1	76
80												80

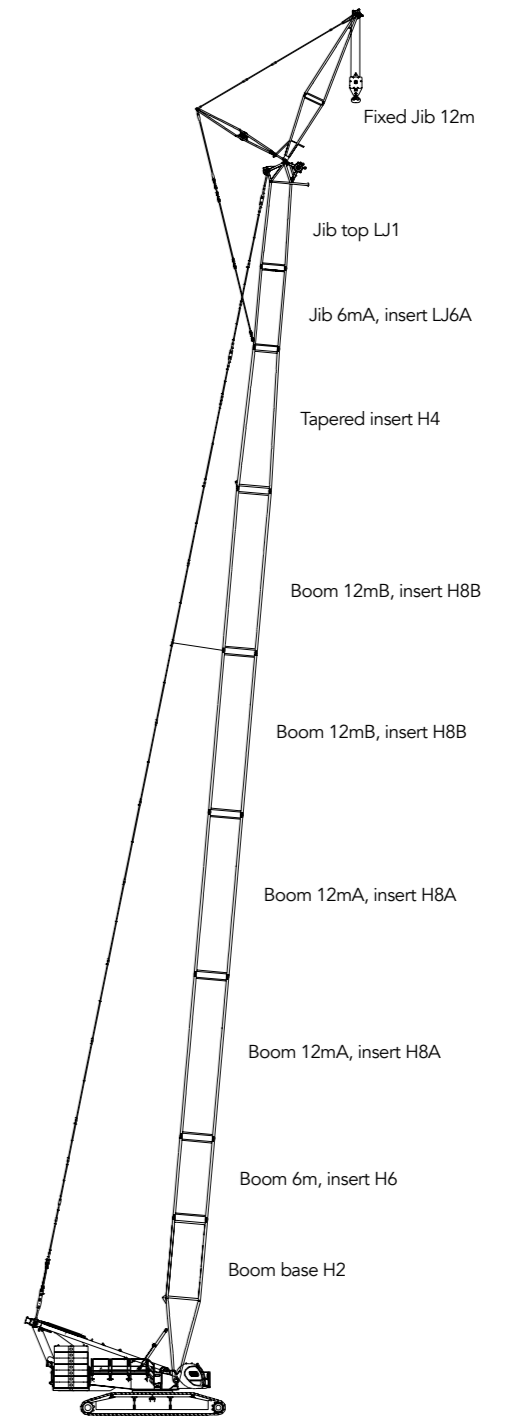
Notes:

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

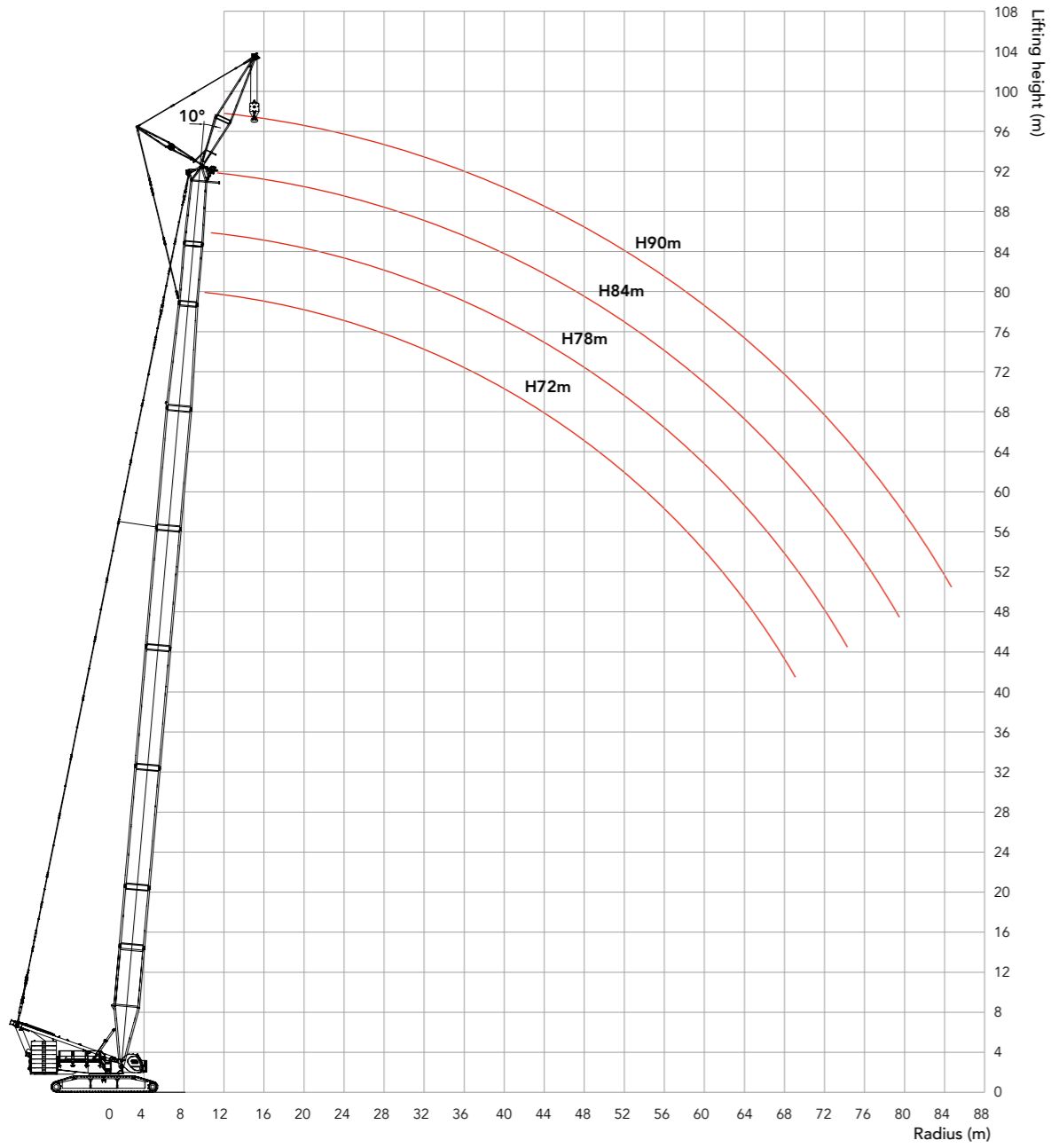
HJFJ 12m fixed jib						
Boom length (m)	Boom Insert			Jib insert		
	6m	12mA	12mB	6mA	6mB	12m
72*	2	2	-	1	-	-
78*	1	2	1	1	-	-
84*	2	2	1	1	-	-
90*	1	2	2	1	-	-

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.

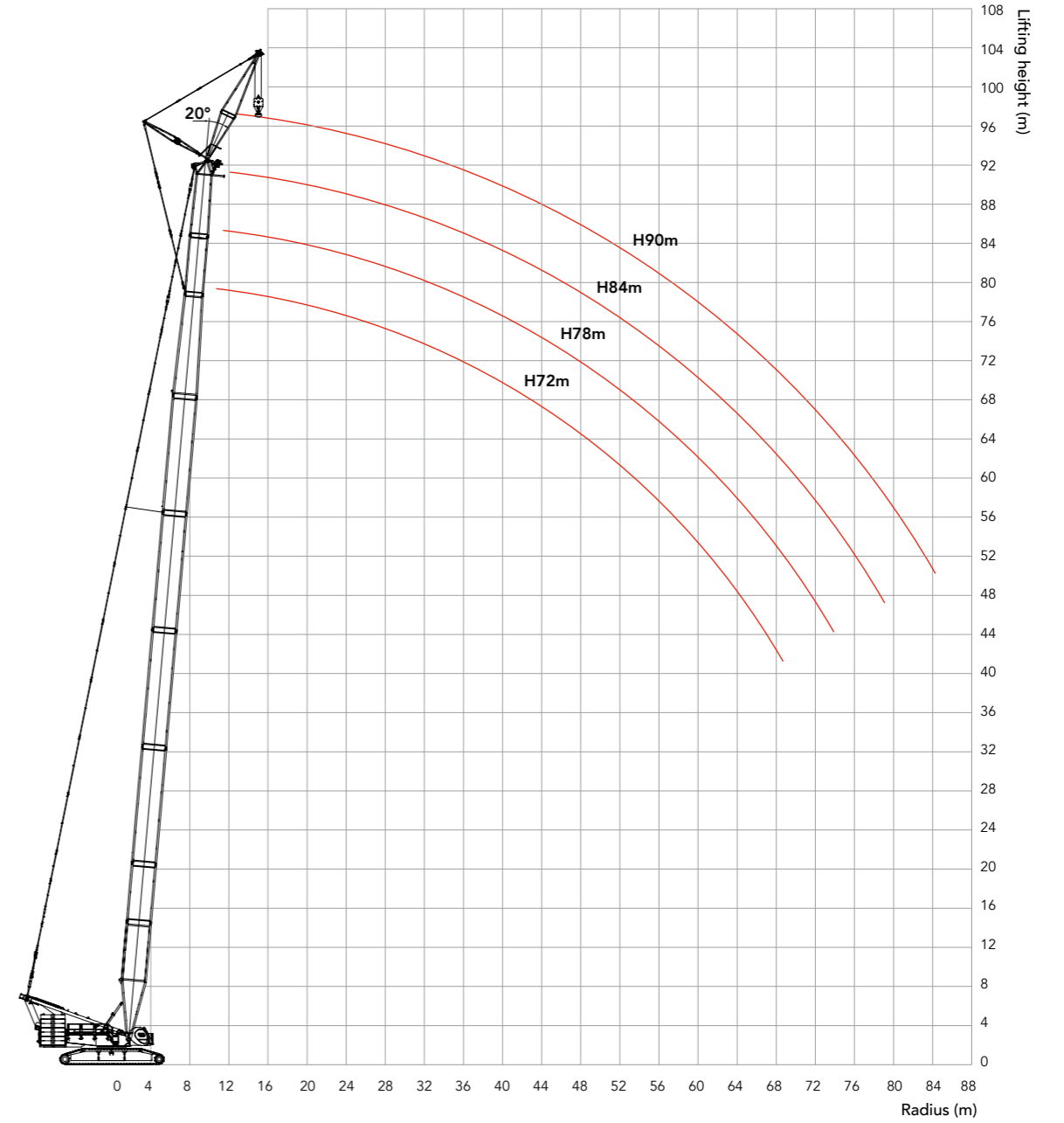


HJFJ (72m-90m)

Working Radius of HJFJ



Working Radius of HJFJ



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

SCC4000A - HJFJ					
Boom length 72-90, boom to jib angle 10°, jib 12m, rear counterweight 150t, center counterweight 40t					
Radius (m)	72	78	84	90	Radius (m)
16	112	109	106		16
18	98.8	95.8	92.8	89.9	18
20	87.7	85	82.3	79.7	20
22	78.4	76	73.6	71.2	22
24	69.9	68.4	66.2	64	24
26	62.4	61.6	59.8	57.7	26
28	56	55.3	54.3	52.3	28
30	50.7	49.9	49.1	47.5	30
32	46	45.3	44.5	43.3	32
34	42	41.2	40.4	39.5	34
36	38.4	37.7	36.9	36	36
38	35.3	34.5	33.7	32.8	38
40	32.5	31.7	30.9	30	40
44	27.7	26.9	26.1	25.1	44
48	23.7	23	22	20.9	48
52	20.3	19.4	18.5	17.3	52
56	17.3	16.4	15.4	14.3	56
60	14.7	13.8	12.8	11.7	60
64	12.4	11.5	10.6	9.4	64
68	10.4	9.5	8.6	7.4	68
72	8.6	7.7	6.8	5.6	72
76	6.9	6.1	5.2	4	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.

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

SCC4000A - HJFJ					
Boom length 72-90m, boom to jib angle 20°, jib 12m, rear counterweight 150t, center counterweight 40t.					
Radius (m)	72	78	84	90	Radius (m)
18	99.4	97.1	95	91.5	18
20	89.5	86.9	84.3	81.8	20
22	80.1	77.7	75.4	73.1	22
24	71.1	70	67.8	65.7	24
26	63.5	62.8	61.3	59.3	26
28	57.1	56.4	55.6	53.7	28
30	51.6	50.9	50.2	48.9	30
32	46.9	46.2	45.4	44.6	32
34	42.8	42.1	41.3	40.5	34
36	39.2	38.5	37.7	36.9	36
38	36	35.3	34.5	33.6	38
40	33.1	32.4	31.6	30.8	40
44	28.2	27.5	26.7	25.8	44
48	24.2	23.5	22.6	21.6	48
52	20.8	19.9	19	18	52
56	17.7	16.8	15.9	14.8	56
60	15	14.2	13.2	12.2	60
64	12.7	11.8	10.9	9.8	64
68	10.6	9.8	8.9	7.8	68
72	8.7	7.9	7	5.9	72
76	7	6.3	5.4	4.3	76
80	2.7	4.8	3.9	2.4	80

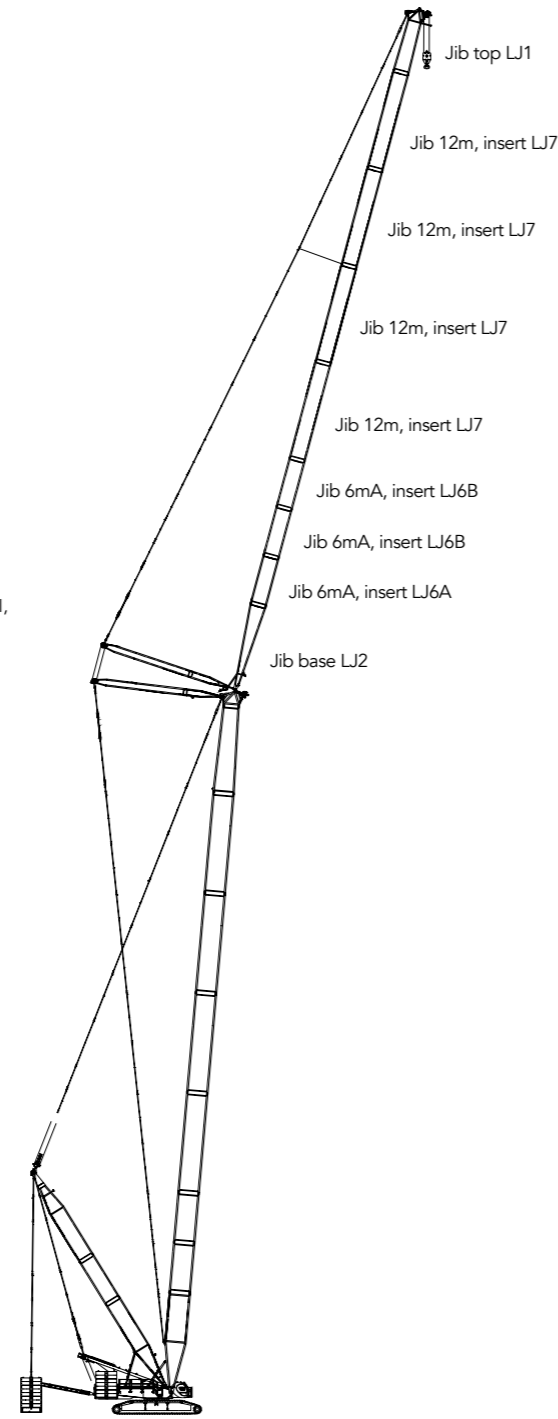
Notes:

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

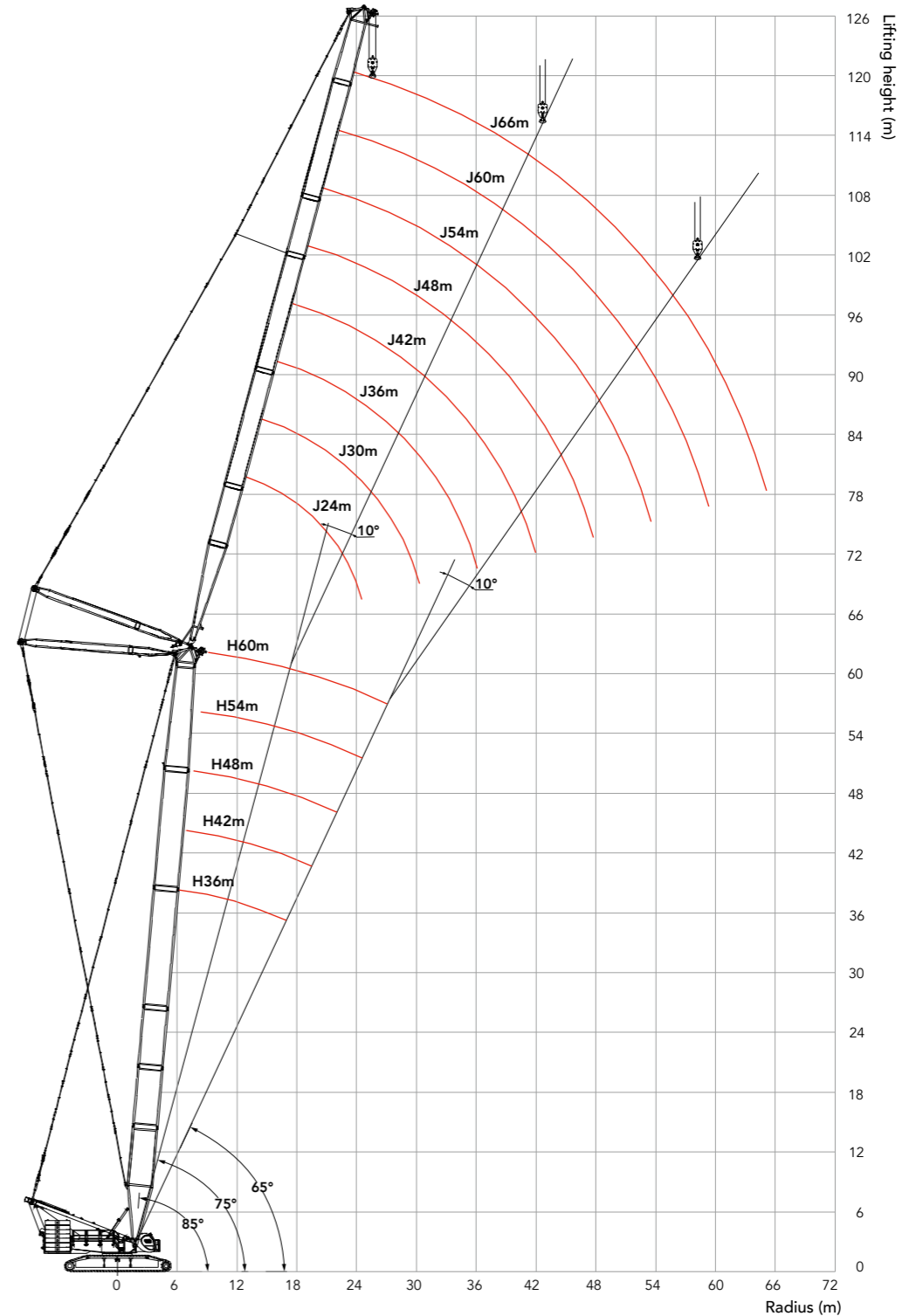
Jib combination of LJ(DB)				
Jib length(m)	Jib insert			Boom length (m)
	6 mA	6mB	12m	
24	1	—	—	36~66(LJ) 36~84(LJDB) 54m+72/60+66(LJ) longest boom + longest jib) 85° 75° 65°
30	1	1	—	
36	1	2	—	
42	1	1	1	
48	1	2	1	
54	1	1	2	
60	1	2	2	
66*	1	1	3	
72*	1	2	3	
78*	1	1	4	
84*	1	2	4	

Jib length of LJ is 24m-72m;
Jib length of LJDB is 24m-84m;
Jib of 66m-84m, which are marked with stars, 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



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.

Working Radius in LJ

LJ工况载荷表

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.

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.

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	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.

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.

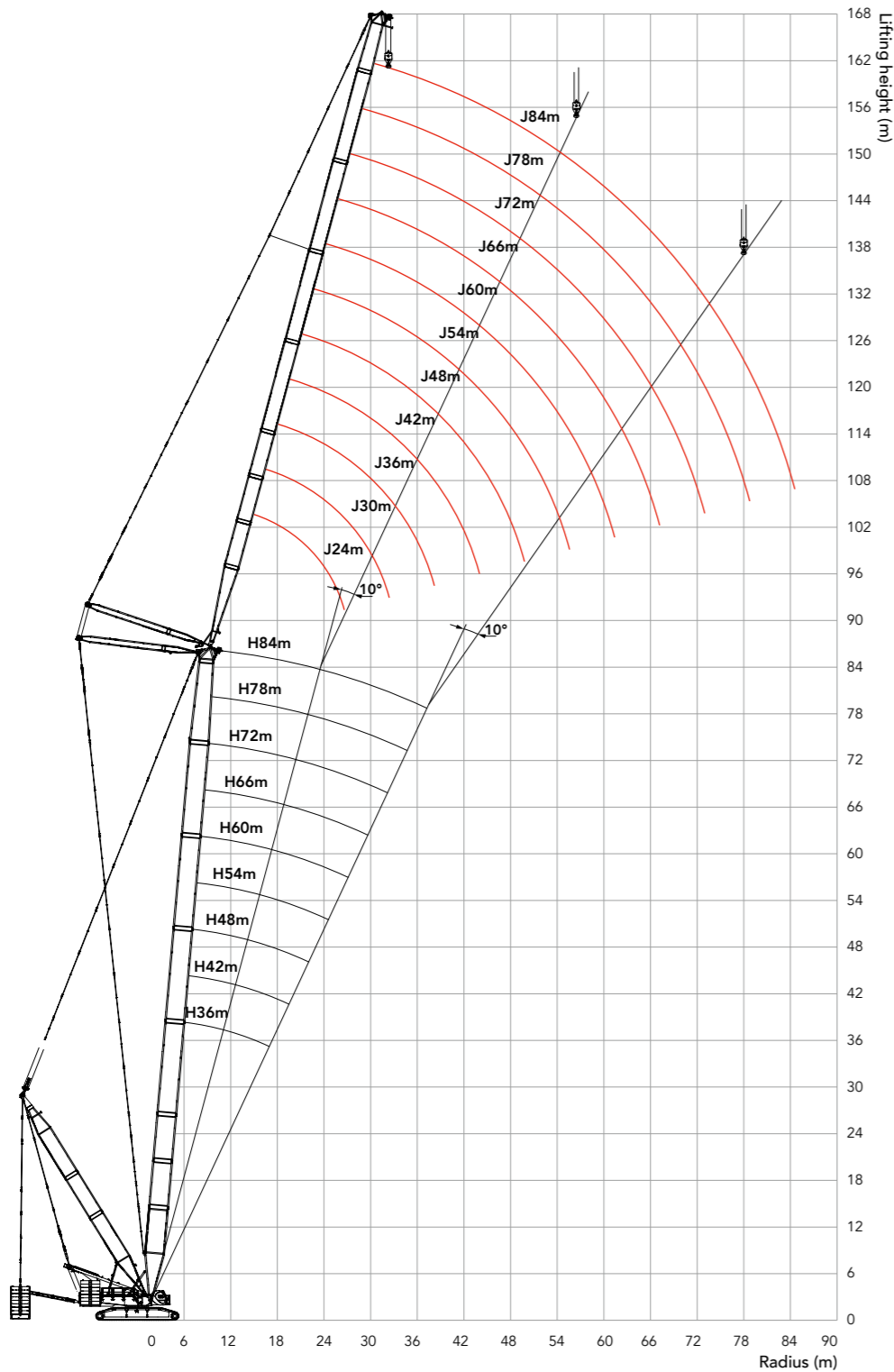
Working Radius in LJ

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



Load Chart of LJDB

Unit: t

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	60
64									39.7	32.5	26.5	64
68										29.3	23.3	68
72											20.8	72
76												76
80												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.

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.

Load Chart of LJDB

SCC4000A -- LJDB 3/9												
Boom 48m, 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	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.

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.

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.

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.

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.

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.

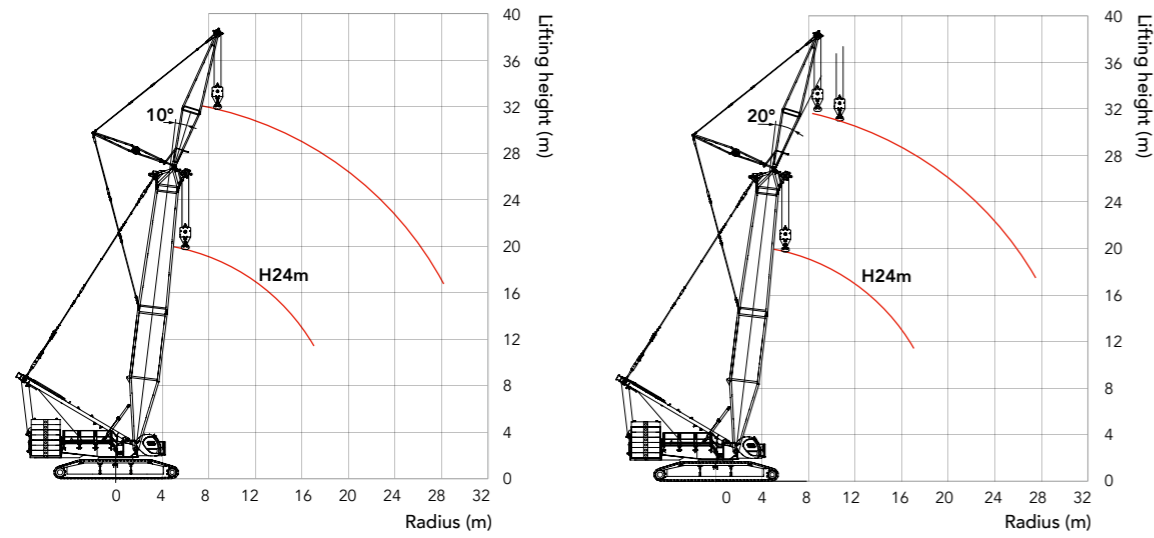
Load Chart of LJDB

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)	24		Boom Length (m)
jib length/m	12		jib length/m
radius/m	Main hook capacity (empty aux. hook)	Aux. hook capacity (empty main hook)	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)	24		Boom Length (m)
jib length/m	12		jib length/m
radius/m	Main hook capacity (empty aux. hook)	Aux. hook capacity (empty main hook)	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:

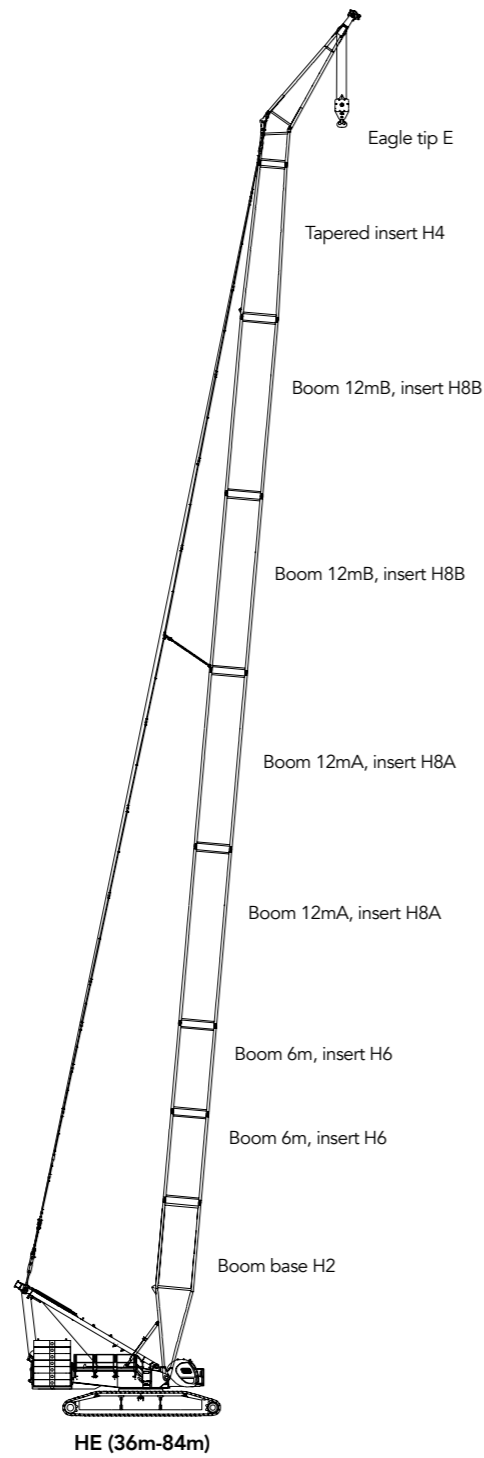
- Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom head from the rate capacity.
- Rated capacity in the load charts is valid when the crane is on firm, level and evenly-supported ground when load is lifted slowly and steadily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

HE Configuration

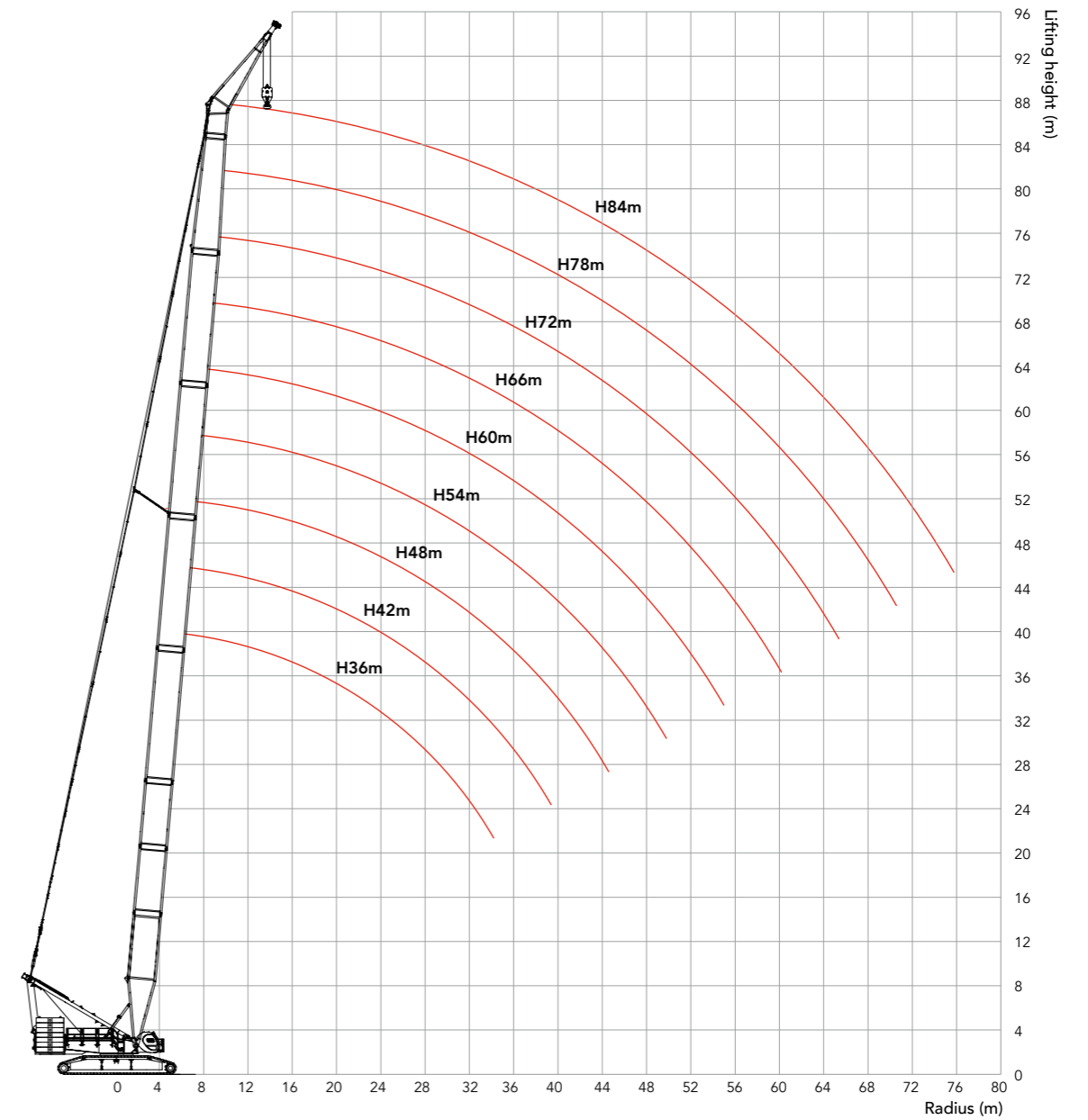
HE Boom Combination			
Boom length (m)	Insert		
	6 m	12mA	12mB
36	2	—	—
42	1	1	—
48	2	1	—
54	1	2	—
60	2	2	—
66	1	2	1
72	2	2	1
78*	1	2	2
84*	2	2	2

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.



Working radius of HE



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.



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— 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.

Any change in the technical parameters and configuration due to advancement in technology may occur without prior notice. The machine in the figures may include auxiliary equipment. This brochure is for reference only, and goods in kind shall prevail.

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