SCC3500A-8

Crawler Crane
350 Tons Lifting Capacity

Quality Changes the World

Max. lifting capacity: 350t
Max. lifting moment: 2000t·m
Max. boom length: 86m
Max. luffing jib combination: 62m+61m
Shield combination: 20m+7m

The parameters, pictures and standard/optional equipment are only for reference in this brochure, the actual machine is based on the effective price list and contract.

Crawler Crane Series
SCC3500A-8

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SANY CRAWLER CRANE
350 TONS LIFTING CAPACITY

QUALITY CHANGES THE WORLD

Main Characteristics

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Product Specification

Engine

- Model: Weichai WP10G336E344 diesel engine.
- Type: 4-stroke, water-cooled, vertical in-line 6 cylinders, direct injection, turbo-charger, intercooler, complied with Chinese Off-way Tier III Emission Standard.
- Displacement: 9.726L.
- Rated power: 247kW/1900rpm.
- Max. torque: 1550N·m/1100~1400rpm.
- Cooling system: temperature-regulated, pressure water circulation system.
- Starter: 24V-8.5kW.
- 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.
- Fuel filter: With electric pumping oil, fuel heating, water removal filter functions.
- Batteries: Two 12V×180Ah capacity batteries, connected in series.
- Fuel tank capacity: 550L.

Electrical control system

- Self-developed SYIC-III 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 2.0B BUS is used for data communication between controller, monitor and the engine.
- Hardware system: The handle has the flexible function setting and the percentage speed control function, which can be customized, making the operation more accurate and smooth; Using injection molded cable, which can resist 5G shock and meet IP67 waterproof grade.
- Intelligence:
  Intelligent assistance: one-key assembly / disassembly series (one-key mast retracting, one-key reeving, one-key luffing jib lowering, hook fixing height technology, etc.) make the operation more simple and efficient.
  Intelligent safety: Center of gravity control, wind speed early warning, ground pressure early warning, all-round safety protection, reduce the probability of operation error.
  Intelligent operation: high risk alarm push (over wind speed, overload, etc.), so that equipment management personnel grasp the information in the first time; Sky eye system allows customers to master the running state of equipment anytime and anywhere.
  Intelligent fault diagnosis: line fault detection, sensor multi-parameter alarm prompt, fault analysis based on action, making troubleshooting more simple and fast.

Hydraulic system

- Main pumps: Electric proportional control open variable displacement piston pumps are adopted to provide oil supply for main actuators of main machine.
- Gear pump: One dual-gear pump for oil radiator motor and A/C motor control circuit.
- Control: Main pump adopts load sensitive control, winch motor adopts limitless adjustable piston motor of variable displacement.
- 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, slewing and travel system: 35MPa.
- Servo pressure: 3.5MPa.
- Hydraulic tank capacity: 500L .

Product Specification

Main and aux. load hoist mechanism

- Pump and motor: Speed regulation through dual displacement pump. Winch counterbalance valve and anti-sliding technology on hook make sure the load lifting and lowering steadily.
- Winch brake: Normally-closed, embedded, wet, spring-loaded disc brake is adopted to brake with spring force and release with oil pressure.
- A variable hydraulic motor drives the planetary gear reducer to control the load lifting and lowering of main hoist winches. A good inching performance is provided. The high-speed mode can realize main and aux. load lifting faster.
- Variable hydraulic motor can realize max. winch speed through automatic adjustment based on electricity flow.
- Choose high-quality spin-resistance wire rope to make sure high safety and longer service life.
- Fold-line machined drum provides high precision and good reliability, making sure the wire rope won't get messy.
- Choose the wire rope lug to make wire rope assembly easier and faster.

Main load hoist mechanism	Rope speed on the outermost work layer	0~132m/min
	Wire rope diameter	26mm
	Wire rope length for main load hoist winch	800m
	Rated single line pull	15t
Auxiliary load hoist mechanism	Rope speed on the outermost work layer	0~132m/min
	Wire rope diameter	26mm
	Wire rope length for aux. load hoist winch	390m
	Rated single line pull	15t

Luffing mechanism

- Including: Boom luffing mechanisms, jib luffing mechanism.
- Drums with folded-line grooves are adopted for all luffing devices. Hydraulic motor drives the planetary gear reducer to realize multiple composite actions and it is equipped with good inching performance.

Boom luffing mechanism	Rope speed on the outermost work layer	0~130m/min
	Wire rope diameter	26mm
	Wire rope length of main luffing winch	355m
Jib luffing mechanism	Rope speed on the outermost work layer	0~136m/min
	Wire rope diameter	20mm
	Wire rope length of auxiliary luffing winch	410m

Slewing mechanism

- Slewing brake adopts wet, spring loaded, normally-closed brake, and braking through spring force.
- Slewing system adopts integrated slewing buffer valve and free slipping function, making sure the start and control is steady, and providing excellent inching function.
- Unique slewing buffer design makes the braking more stable.
- Slewing drive: External engaged slewing drive with 360° slewing range, and the max. slewing speed is 1.0r/min. The max. drive pressure can reach 27MPa.
- Slewing ring: Three-row roller bearing.

Product Specification

Cab and control

- Cab configuration: Porsche helmet type classic cab, equipped with front camera and large area window, integrated three-color lights and front lighting LED headlights, two gear front wiper, top wiper. Beautiful and unique. It can tilt up 25° to make the field of vision wider and the operation more comfortable.
- Control configuration: It adopts three 12.8-inch touchable large screen, new minimalist UI interface, 18-key EPAD control, one-key start-stop, mobile phone interconnection, voice control, integrated radio, USB charging/wireless charging and other keyless design and new layout of integrated electrical parts, more ergonomic. Programmable intelligent key switch and vibration handle, face recognition, voice assistance, to bring drivers a new passenger-class driving experience.
- 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: Air suspension adjustable seat with seat interlocking switch.
- A/C: Cool and heat air, 4 channels, optimized air channels and vents.
- Monitoring system can display multiple pictures at the same time. It can realize the real-time monitoring of hoisting situation, the front of the cab, the situation of the rope of the winch, the state behind the counterweight and the surrounding situation of the equipment.

Counterweight

- Adopt Sany large tonnage crawler crane general 5t/10t counterweight block, reduce the cost of customer purchase and use. The counterweight of the whole vehicle ≤10t/ piece, and only a small tonnage auxiliary crane is needed on site
- The superposition combination of boom insert and counterweight block can prevent overheight and reduce the use cost.

Name	Quantity	Length (m)	Width (m)	Height (m)	Unit weight (t)
Center counterweight	4	5.75	1.70	0.47	10
10t rear counterweight	10	2.85	2.40	0.45	10
5t rear counterweight	2	2.85	2.40	0.45	5
Rear counterweight tray	2	3.2	2.67	1.78	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.

Travel drive

- Independent travel drive device is used for each side of crawler. Straight line traveling and steering is driven by travel motor.
- Through reducer and drive wheel. Automatic machine direction switch is available.
- The travel system is configured with low and high speed options, which can travel as fast as 1.0km/h.
- Gradeability: 30%.

Travel brake

- Wet, spring loaded, normally-closed brake, braking through spring force and releasing through oil pressure.

Crawler tightening

- The jack is used to push the guide wheel and insert the shim to adjust crawler tension.

Steering system

- The machine is capable of turning with one crawler or in pivot.

Track pad

- High strength alloy cast steel track pad ensure long service life. They are 1200mm wide with a total of 79 pads×2.

Track roller

- Maintenance-free track rollers are used.

Product Specification

Boom

- The boom is a spatial lattice structure with equal section areas for inserts and tapered section areas for both ends. With tubes welded together, and boom tip and root strengthened with steel plates, it can better transfer the load.
- The length of the boom ranges from 20m base boom to the maximum length 86m increasing by every 6m.
- Composition: Boom base 12m×1, transitional insert 7m×1, boom top 1m×1, boom insert 6m×1,boom A 12m×3, boom B 12m× 2.
  (Note: 12m boom B and SCC3200A-1 boom insert are interchangeable)

Luffing jib and heavy fixed jib

- The luffing jib is a spatial lattice structure with equal section areas for inserts and tapered section areas for both ends. With tubes welded together, and jib tip and root strengthened with steel plates, it can better transfer the load.
- Luffing jib length varies from 19m to 61m, increasing by every 6m.
  Composition: Jib base 3.5m×1, jib base 3.5m×1, jib A 6m×1, jib B 6m×2, jib insert 12m×3, winch can be mounted on boom length from 26m~62m. (Note: 6m jib B, 12m jib insert and SCC3200A-1 boom insert are interchangeable)
- 7m heavy fixed jib is composed of jib base and jib top, which can meet the multi-purpose of only one type jib and improve the cost performance of the product.

Runner

- Weld structure, connected to the boom through pin.
- Can be installed in the boom head and ajib head for auxiliary hook work.

Hook

- There are 7 optional hooks and the actual configurations are based on the order.

Name of Hook Block	Max. load weight	QTY	No. of sheaves	Unit weight (t)
300t hook block	300	1	11	5.7
260t hook block	260	1	9	4.8
200t hook block	200	1	9	3.69
160t hook block	160	1	5	3.02
100t hook hook	100	1	3	2.13
50t hook hook	50	1	1	1.7
16t ball hook	16	1	-	0.9

Note:
1. The above-mentioned is full up configurations, and the actual configurations are based on the order.
2. The lifting capacity indicated on the hook represents only the rated lifting capacity. The actual lifting capacity of the hook should be calculated based on the single line pull of wire rope and the safety factor of the rope.

Safety Devices

Assembly/work mode control switch

- Under the assembly mode, over-hoist limit switch, crane boom limit device and load moment limiter do not work, so as to facilitate the installation of crane.
- All safety limit devices work in the work mode.

Emergency stop

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

Load moment limiter (LMI)

- It is an independent computerized safety control system. LMI can automatically detect the load weight, work radius and boom angle, and present on the display the rated load, actual load, work radius and boom angle. In normal operation, the LMI can make a judgment and cut off automatically if the crane moves towards dangerous direction. It can also perform as a black box to record the lifting information.
- It is composed of monitor, angle sensor and force sensor and other parts.

Over-hoist limit switch of main/auxiliary hooks

- Over-hoist protection device comprises of limit switch and weight on boom top, which prevents the hook lifting up too much.
- When the hook lifts up to the limit height, the limit switch activates, buzzer sends alarm, failure indicator light starts to flash, and the hook hoisting action is cut off automatically, cut off automatically.

Over-release limit switch of main/auxiliary hooks

- It is comprised of activator in the drum and proximity switch to prevent over release of wire rope. When the rope is paid out close to the last three wraps, the limit switch acts, and the system sends alarm through buzzer and show the alarm on the instrument panel, automatically cutting off the winch action.

Function lock lever

- If the function lock level is not in work position, all the other handles won't work, which prevents any mis-operation caused by accidental collision.

Luffing drum lock

- It is equipped with a luffing locking switch, which can be locked when the luffing winch action is not needed to avoid the wrong operation of the handle.
- Luffing winch pawl lock can automatically open and close with the handle. When the handle returns to the middle position, the pawl lock will automatically lock the reel to ensure safety during nonwork time.

Lightning protection device

- It is offered as an optional feature, which includes the grounding device that can effectively protect the electric system elements and workers from lightning.

Boom limit device

- When the boom elevation angle reaches the max. set limit, the buzzer sounds and boom action cut off. This protection is two-stage control ensured by both LML system and travel switch.

Back-stop device

- The boom adopts back stop oil cylinder structure, the larger the compression is, the larger the back stop force.
- There is a pair of mechanical back-stop device for luffing jib rear strut to prevent mast backing and tension rear strut pendant.
- When the boom to jib angle approaches the smallest angle, there is pneumatic back-stop device to prevent back tipping. The rated pressure is 31.5MPa.

Hook latch

- The hook is provided with a baffle to prevent wire rope from falling off.

Safety Devices

Tri-color warning light

- The load indication light has three colors, green, yellow and red, and the real time load status is presented on the display. When the actual load is smaller than 90% of rated load, the green light is on.
- When the actual load is larger than 90% and smaller than 100%, the yellow light is on, the alarm light flashes and sends out intermittent sirens.
- When the actual load reaches 100% of rated load, the red light is on, the alarm light flashes and sends out continuous sirens;
- When the actual load reaches 102% of rated load, the system will automatically cut off the crane operation in dangerous trend.

Working warning light

- When the engine is working, the light flashes.

Slewing and travel warning light

- When the machine is traveling and slewing, the warning horn sounds at a certain frequency to warn and remind the personnel around the crane, which can be closed by the display.

Illuminating light

- The machine is equipped with the low beam light and high beam light at the front of the cab, illumination light at cab, and other night lights, boom lights to improve the visibility during construction.

Rearview mirror

- Set on the right front of the cab, turntable tail so as to monitor the rear part of machine.

Airplane warning light

- It is mounted on the top of boom/jib to indicate the height.

Active safety control technology

- Automatic reduction of slewing speed according to the length of the boom, more safer.
- Flexible safety protection, flexible to reduce the speed of operation when approaching the safety limit conditions, more stable and reliable.
- Real-time monitoring of hydraulic oil temperature, realize speed limit according to hydraulic oil temperature, effectively protect hydraulic components.
- Can use the man-machine interface option to enable this protection function, more user-friendly.

Anemometer

- It is mounted on the top of boom/jib, and displayed on the monitor in the cab.

Electronic level indicator

- It displays the tipping angle of crane on the monitor in real time, protecting the machine from dangerous situation.

Seat interlock

- Put down the function lock lever on the left side of cab seat or if the operator leaves the seat, all control levers will be de-activated to prevent any mis-operation due to accidental collision.

Engine power limit load adjustment and stalling protection

- The controller monitors the engine power to prevent engine getting stuck and stalling.

Engine status monitoring

- The engine status will be presented, such as engine coolant temperature, fuel volume, total work hours, engine oil pressure, engine speed, battery charging, voltage.

Monitor system

- The triple screen can be connected to eight external cameras. Can realize the real-time monitoring of various institutions. Store video recordings from all cameras for 72 hours.
- A self-diagnosis system for troubleshooting based on a fault code.
- The black box records the driver's movements and the operation of the equipment. In addition, according to the actual operation of the equipment, the remaining service and service life of the equipment can be analyzed.

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SCC3500A-8
SANY CRAWLER CRANE
350 TONS LIFTING CAPACITY

QUALITY CHANGES THE WORLD

Technical Parameters

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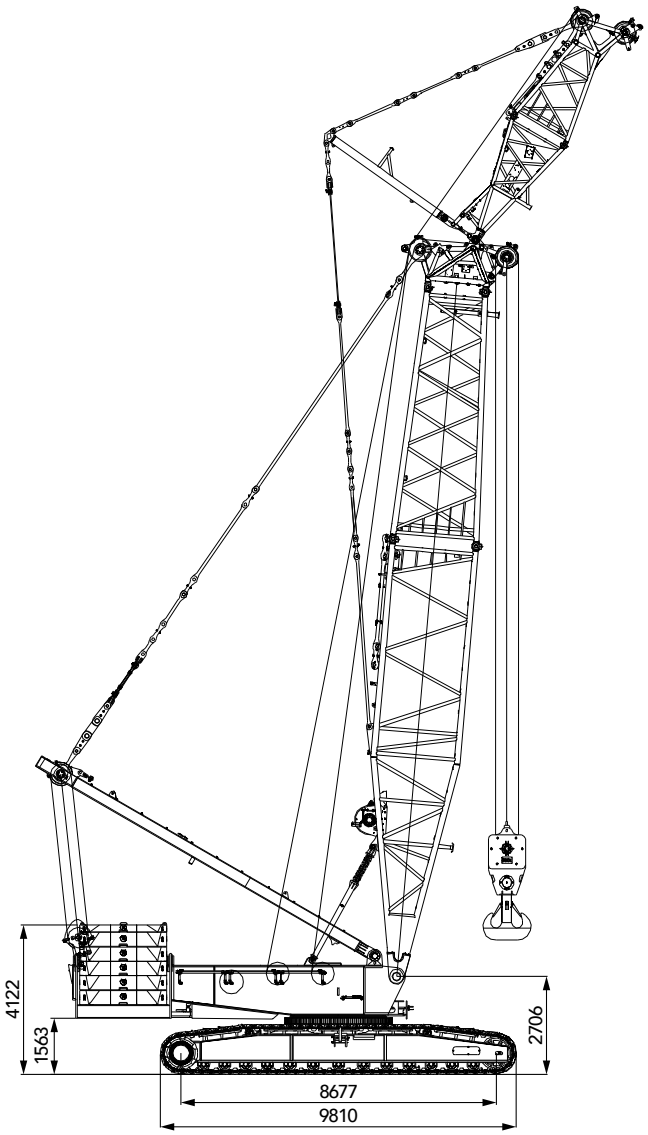
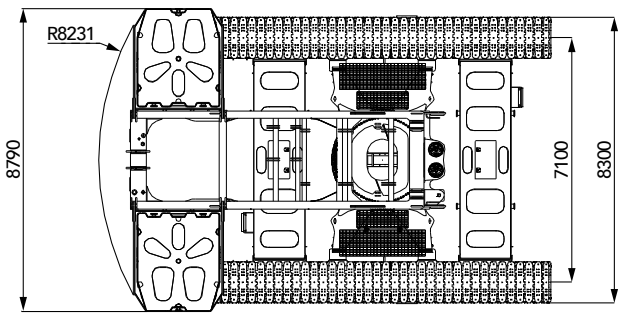
Main Performance Parameters

Major Performance & Specifications of SCC3500A-8			
Performance Indicators		Unit	Parameter
H Configuration	Max. rated lifting capacity	t	350
	Max. rated lifting capacity	t·m	2000
	Boom length	m	20~86
	Boom angle	°	30~85
Heavy Fixed Jib	Boom + fixed jib (Shield Application)	m	20+7
	Boom to jib angle	°	25
Luffing jib	Longest boom + longest luffing jib	m	62+61
	Boom luffing angle	°	65~85
Speed	Speed of single rope of the main/aux. load hoist (outermost work layer)	m/min	0~132
	Boom hoist winch speed (outermost layer)	m/min	0~130
	Jib hoist winch speed (outermost layer)	m/min	0~136
	Slewing speed	rpm	0~1.0
	Travel speed	km/h	0~1.0
	Gradeability	%	30
Engine	Output power	kW	247
	Rated speed	rpm	1900
Transport	Max. transport weight of single part (with main and aux. hoist winches)	t	50
	Transport dimension (L × W × H)	mm	14600 x 3000 x 3400
	Average ground pressure	MPa	0.14

Unit: mm

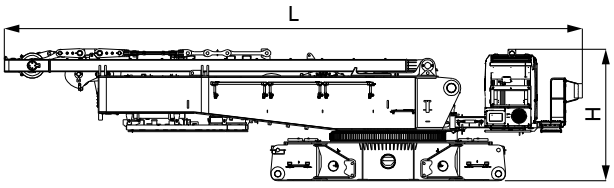
Outline Dimension



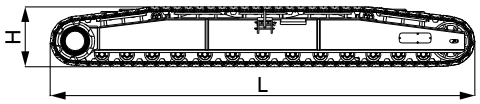


Transport Dimension

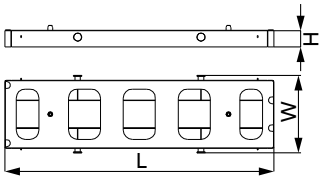
Note:
1.The transport dimensions of each part in the table are schematic, not proportional to the real parts. The dimensions are designed value without package considered.
2.Weight is designed value that the actual manufactured part may deviate a little.
3.The dimensions and weight of each part may change due to product upgrading. The final values are subject to the new product.



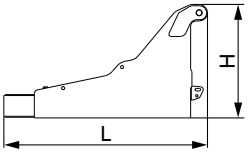
Basic machine	×1
Length (L)	14.60m
Width (W)	3.00m
Height (H)	3.40m
Weight	50.0t



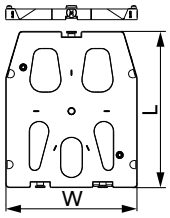
Crawler	×2
Length (L)	9.80m
Width (W)	1.57m
Height (H)	1.37m
Weight	22.0t



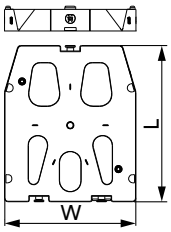
Carbody counterweight	×4
Length (L)	5.75m
Width (W)	1.70m
Height (H)	0.47m
Weight	10.0t



Rear counterweight tray	×2
Length (L)	3.20m
Width (W)	2.67m
Height (H)	1.78m
Weight	10.0t

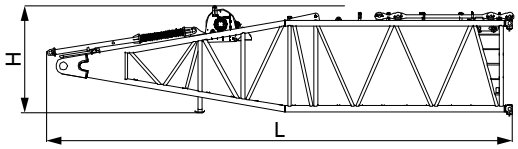


5t counterweight block	×2
Length (L)	2.85m
Width (W)	2.40m
Height (H)	0.26m
Weight	5.0t

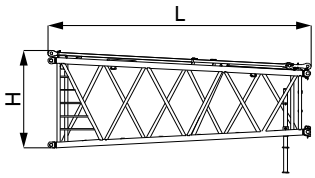


10t counterweight block	×10
Length (L)	2.85m
Width (W)	2.40m
Height (H)	0.45m
Weight	10.0t

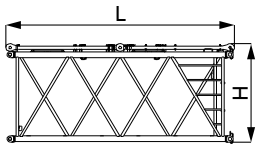
Transport Dimension



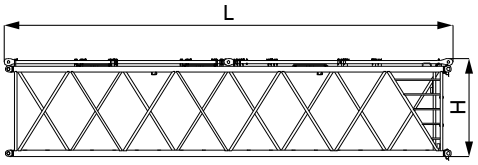
Boom base (with luffing jib)	×1
Length (L)	12.50m
Width (W)	2.86m
Height (H)	3.00m
Weight	8.9t



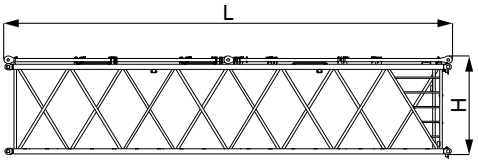
Boom tapertapered inwert	×1
Length (L)	7.17m
Width (W)	2.86m
Height (H)	2.67m
Weight	3.4t



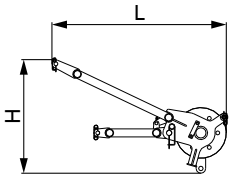
6m boom insert	×1
Length (L)	6.23m
Width (W)	2.86m
Height (H)	2.67m
Weight	2.1t



12m boom A	×3
Length (L)	12.24m
Width (W)	2.86m
Height (H)	2.67m
Weight	3.7t

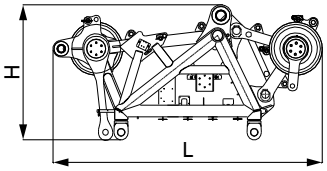


12m boom B	×2
Length (L)	12.24m
Width (W)	2.86m
Height (H)	2.67m
Weight	3.4t

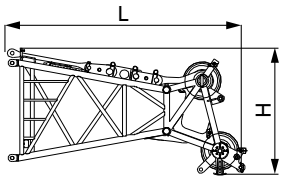


Runner	×1
Length (L)	2.20m
Width (W)	0.90m
Height (H)	1.44m
Weight	0.35t

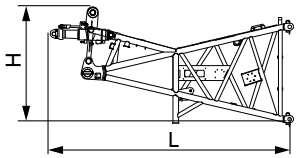
Transport Dimension



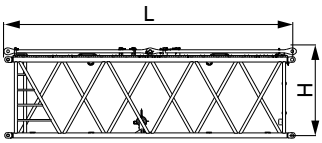
Boom tip (with pulley block)	×1
Length (L)	3.24m
Width (W)	2.14m
Height (H)	1.60m
Weight	4.0t



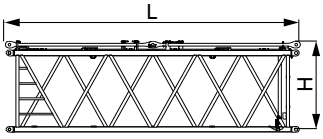
Jib top	×1
Length (L)	3.96m
Width (W)	2.25m
Height (H)	2.14m
Weight	2.0t



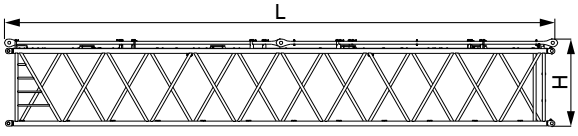
Jib base	×1
Length (L)	4.20m
Width (W)	2.25m
Height (H)	2.07m
Weight	1.7t



6m jib A	×1
Length (L)	6.20m
Width (W)	2.25m
Height (H)	1.93m
Weight	1.2t

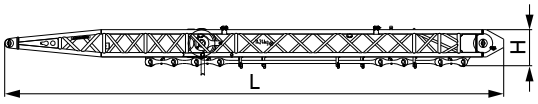


6m jib B	×2
Length (L)	6.20m
Width (W)	2.25m
Height (H)	1.93m
Weight	1.2t

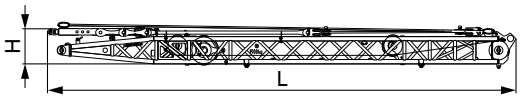


12m jib A	×3
Length (L)	12.20m
Width (W)	2.25m
Height (H)	1.93m
Weight	2.0t

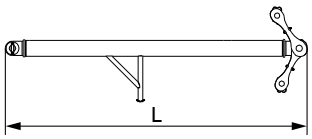
Transport Dimension



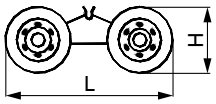
Front mast	×1
Length (L)	10.85m
Width (W)	1.50m
Height (H)	0.79m
Weight	1.9t



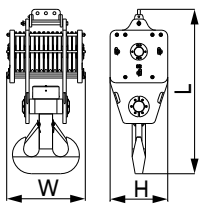
Rear mast	×1
Length (L)	10.20m
Width (W)	2.10m
Height (H)	0.76m
Weight	2.52t



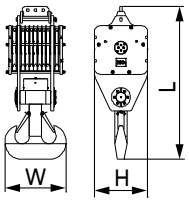
Heavy fixed jib mast	×1
Length (L)	4.13m
Width (W)	2.10m
Height (H)	0.25m
Weight	0.9t



Trolly	×1
Length (L)	2.56m
Width (W)	1.74m
Height (H)	1.00m
Weight	1.0t

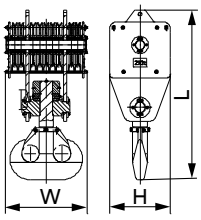


300t hook	×1
Length (L)	2.90m
Width (W)	1.39m
Height (H)	1.02m
Weight	5.7t

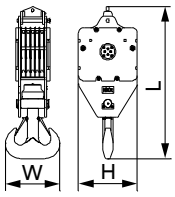


260t hook	×1
Length (L)	2.93m
Width (W)	1.18m
Height (H)	1.02m
Weight	4.8t

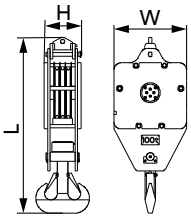
Transport Dimension



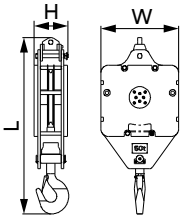
200t hook	×1
Length (L)	2.49m
Width (W)	1.20m
Height (H)	0.89m
Weight	3.69t



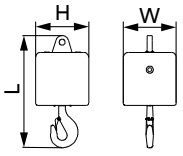
160t hook	×1
Length (L)	2.64m
Width (W)	0.94m
Height (H)	1.02m
Weight	3.02t



100t hook	×1
Length (L)	2.48m
Width (W)	1.02m
Height (H)	0.51m
Weight	2.13t



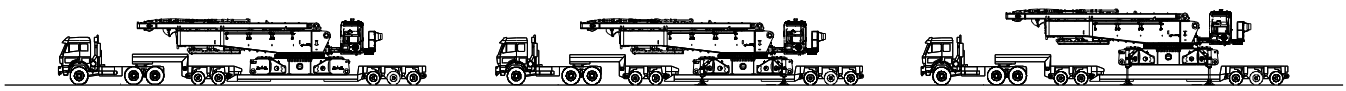
50t hook	×1
Length (L)	2.30m
Width (W)	1.00m
Height (H)	0.45m
Weight	1.7t



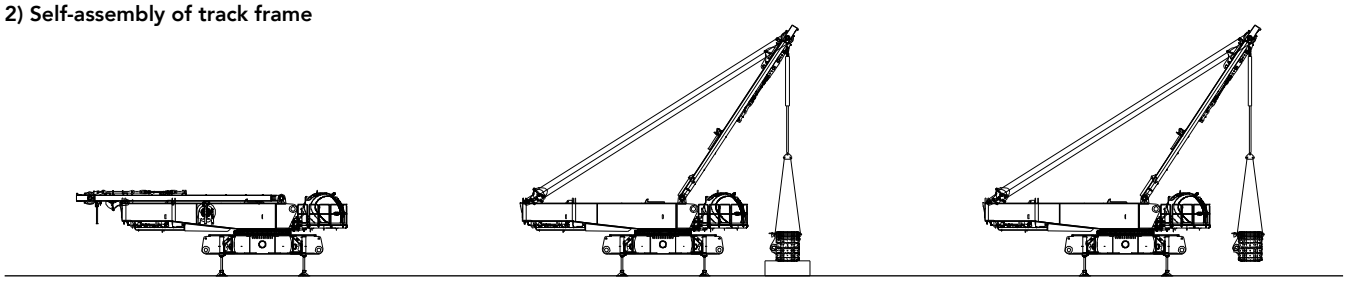
16t hook	×1
Length (L)	1.10m
Width (W)	0.53m
Height (H)	0.53m
Weight	0.9t

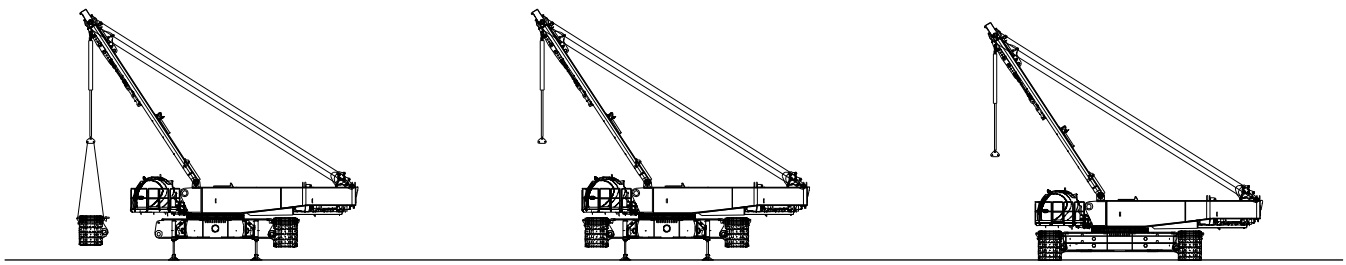
Self-assembly Plan

1) Self-assembly of basic machine



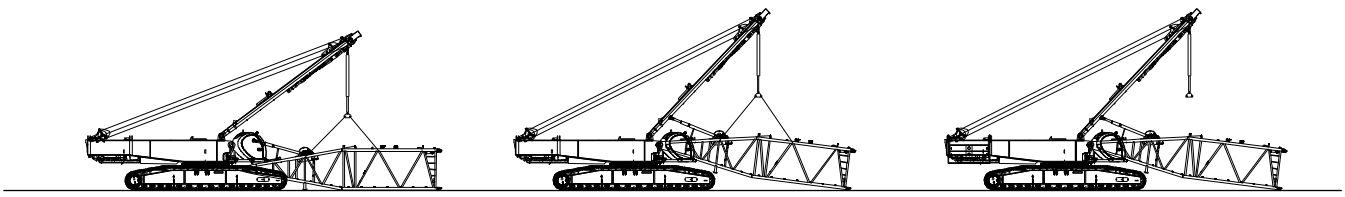
2) Self-assembly of track frame



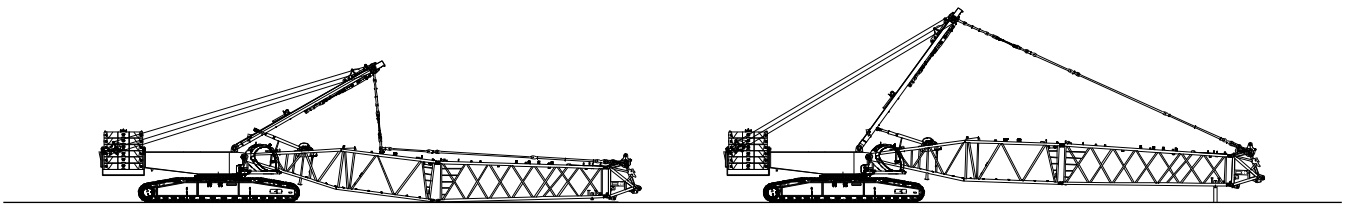


Self-assembly Plan

3) Self-assembly of boom base



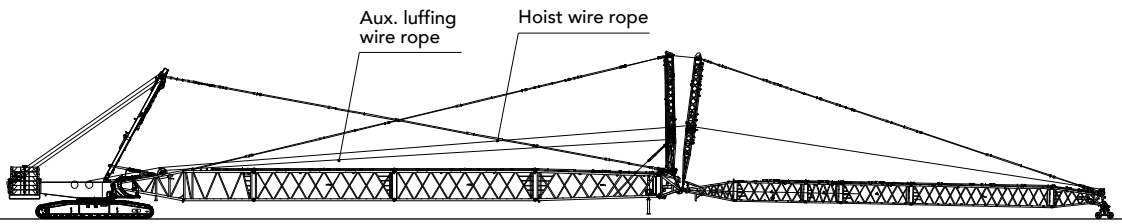
4) Schematics of boom assembly

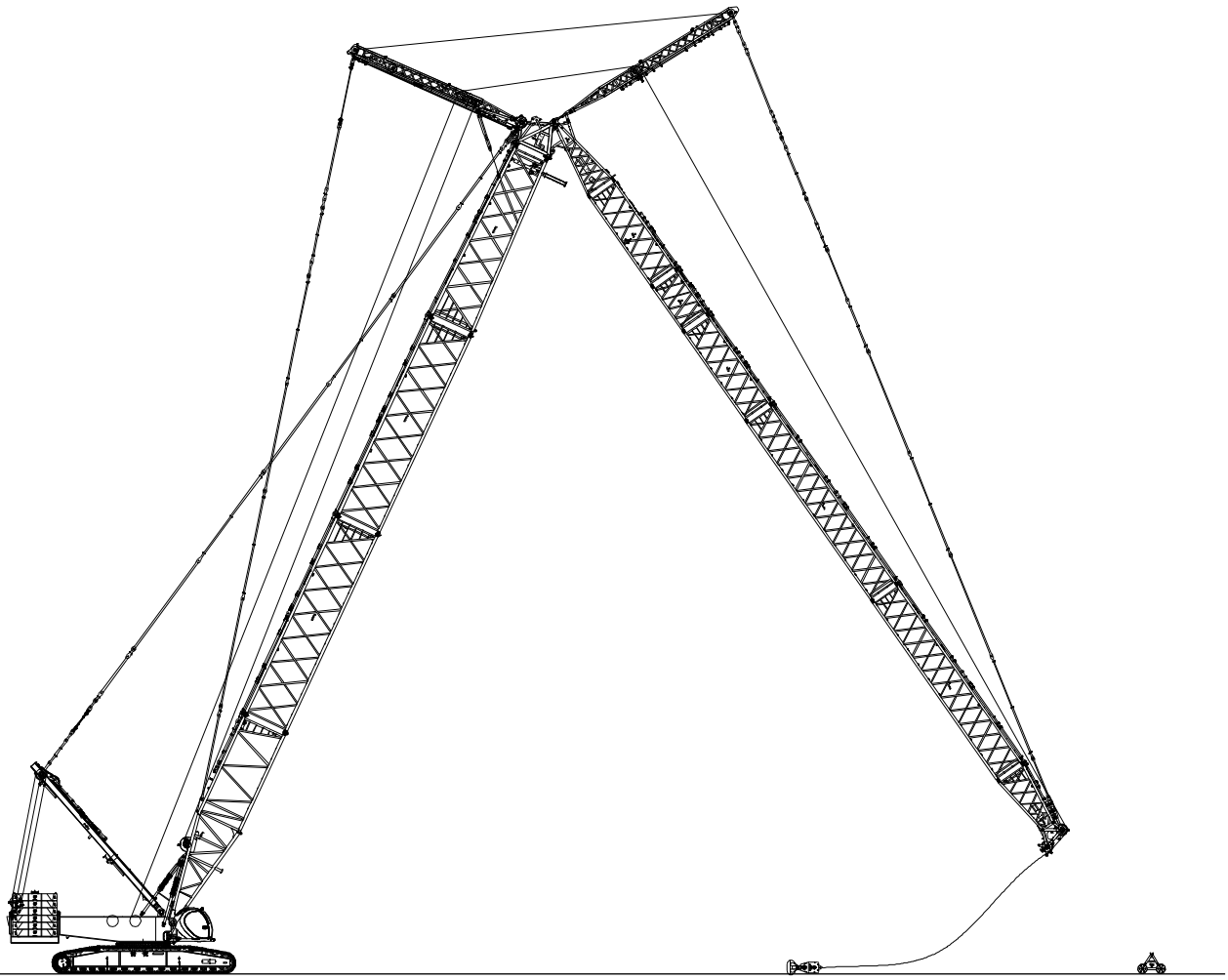


Note: optional self-assembly cylinder.

Self-assembly Plan

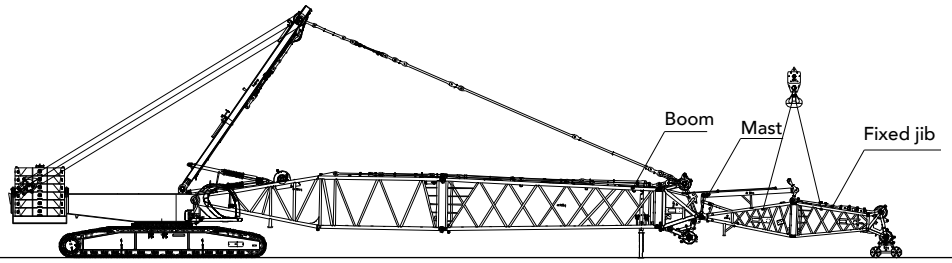
5) Luffing jib assembly

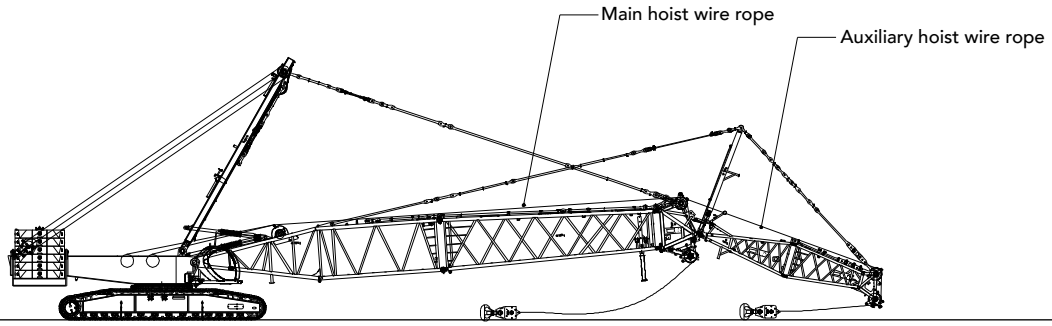




Self-assembly Plan

6) Shield Application





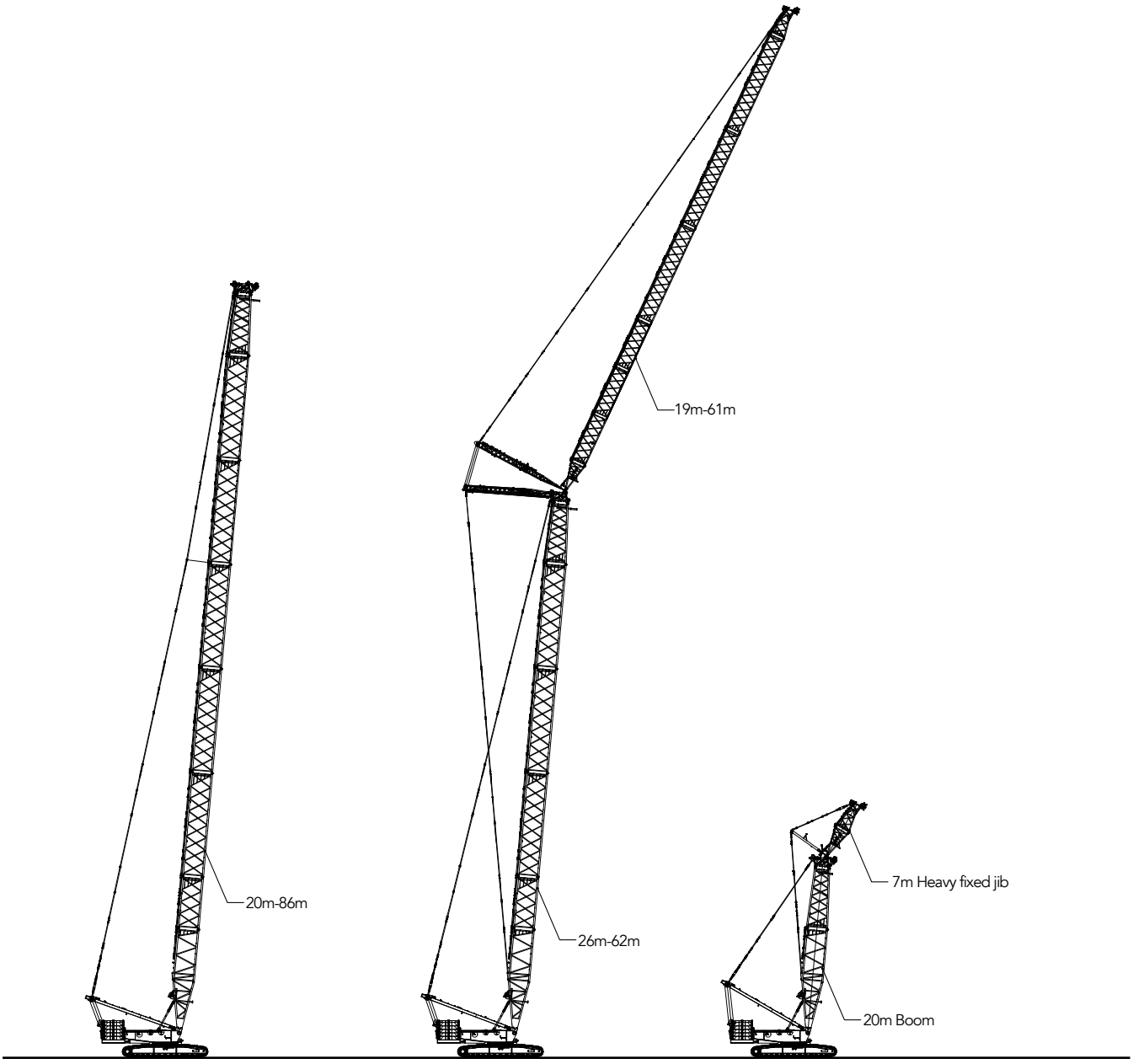
C

SCC3500A-8
SANY CRAWLER CRANE
350 TONS LIFTING CAPACITY

QUALITY CHANGES THE WORLD

Configurations

Combination



H
Max. lifting capacity：350t×4.8m
Longest boom：86m

LJ
Max. lifting capacity：118t×15m
Longest boom：62m+61m

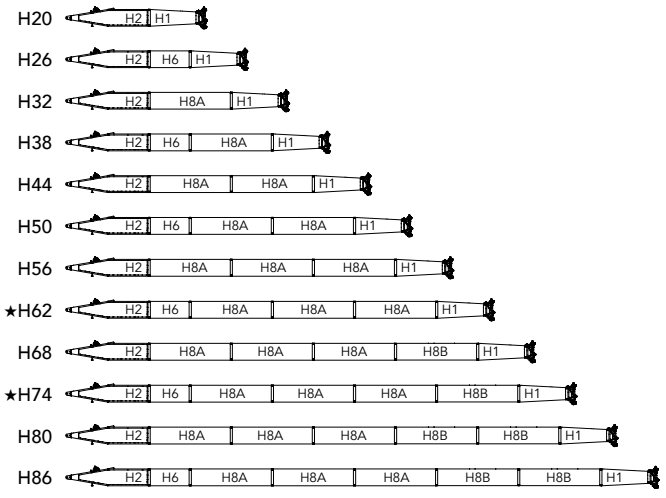
FJh (Shield application)
Main hook capacity：190t×10m
Aux. hook capacity：109t×10m

Configuration	Combination	Boom length
H	Boom	86m
LJ	Boom + luffing jib	62m+61m
FJh（Shield application）	Boom + heavy fixed jib	20m+7m

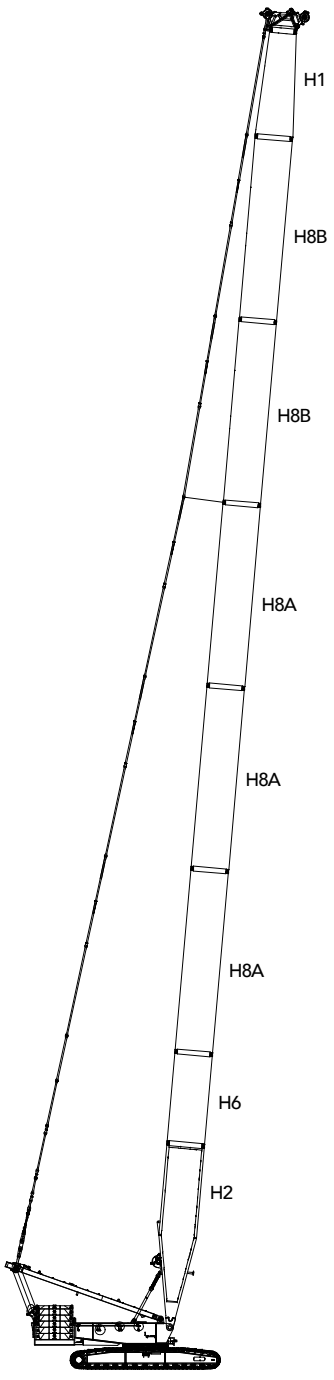
Note: The schematics above are reference for loading only.

Boom Combination in H

H Boom Combination			
Boom length (m)	Inserts		
	6m-H6	12m-H8A	12m-H8B
20	-	-	-
26	1	-	-
32	-	1	-
38	1	1	-
44	-	2	-
50	1	2	-
56	-	3	-
62	1	3	-
68	-	3	1
74	1	3	1
80	-	3	2
86	1	3	2

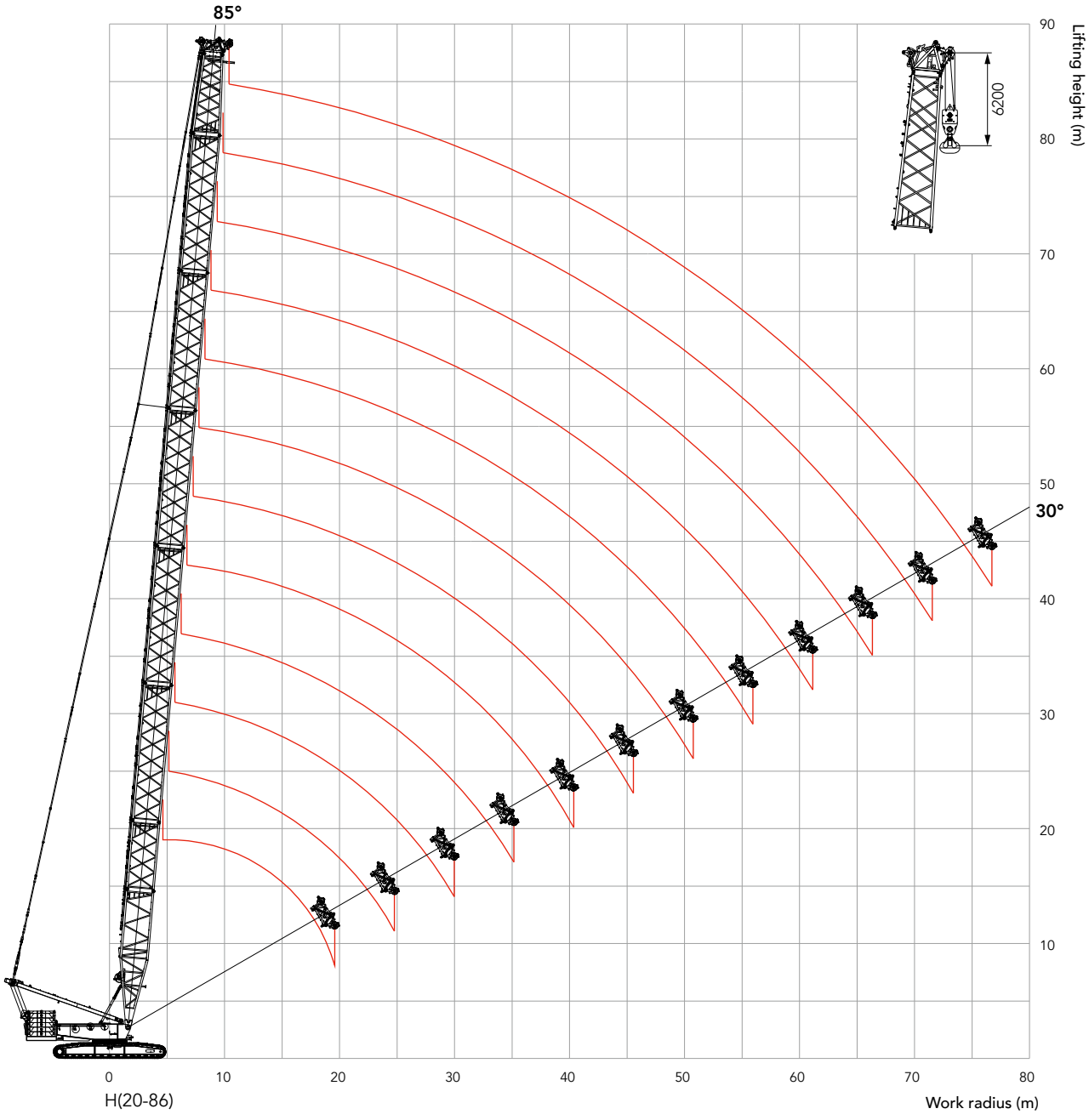


Note: The boom combinations with " ★ " are recommended for purchasing. H8B is interchangeable with 320A-1



H
(20m~86m)

Working Range of H



Unit: t

Load Chart of H Configuration

Note:
1. The actual lifting capacity must subtract the weight of hooks and other riggings from the rated capacity in the load chart.
2. Rated capacity in the load charts is calculated when the crane is on firm and level ground, and the load lifting is slowly and steadily.
3. When the lifting capacity ≥ 315t, it is necessary to customize specialized lifting equipment.

Load chart - H

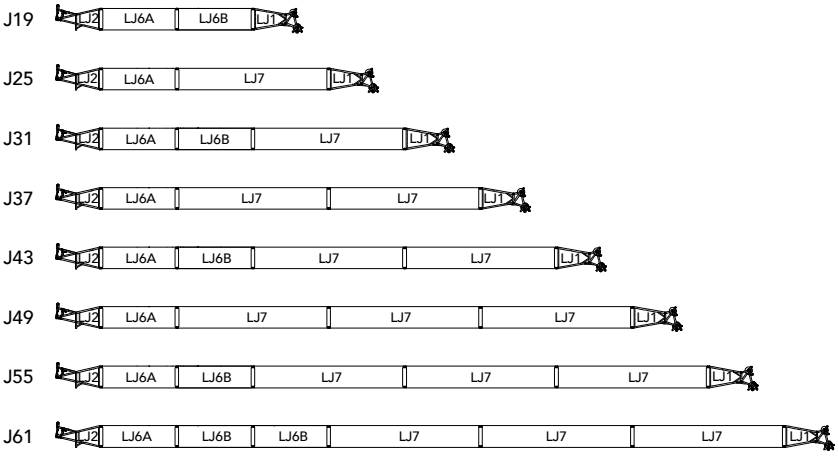
Rear counterweight 130t, carbody counterweight 40t

BL (m) / R (m)	20	26	32	38	44	50	56	62	68	74	80	86	BL (m) / R (m)
4.8	350												4.8
5	320												5
6	315	310	305										6
7	285	283	281	278	254								7
8	246	244	243	241	231	218	205						8
9	216	215	214	212	203	192	183	174	160				9
10	192	191	191	189	180	172	164	157	150	134	111		10
11	173	172	172	170	162	155	148	142	136	131	108	100	11
12	157	157	156	154	147	141	135	132	130	120	105	99.9	12
13	144	143	143	140	135	129	124	120	115	111	102	99.7	13
14	133	132	132	129	124	119	115	111	107	103	99.7	96.1	14
15	123	122	122	119	115	110	107	103	99.7	96.1	92.9	89.6	15
16	112	112	112	110	107	103	99.7	96.2	93.1	89.8	86.9	83.9	16
17	102	103	103	103	99.9	96.4	93.2	90	87.2	84.2	81.5	78.7	17
18	94.7	95.3	95.6	95.4	93.6	90.4	87.5	84.5	81.9	79.1	76.7	74	18
19	87.7	88.4	88.7	88.5	87.9	85	82.3	79.5	77.2	74.5	72.3	69.8	19
20	81.5	82.3	82.6	82.4	82.2	80.1	77.6	75.1	72.8	70.4	68.3	65.9	20
22		72	72.4	72.1	72	71.5	69.6	67.3	65.3	63.1	61.2	59.2	22
24		63.7	64.2	63.9	63.8	63.3	62.8	60.7	59	57	55.3	53.4	24
26			57.4	57.2	57	56.5	56.2	55.2	53.6	51.8	50.2	48.4	26
28			51.7	51.5	51.4	50.9	50.5	49.9	48.9	47.2	45.8	44.1	28
30			46.9	46.7	46.6	46.1	45.7	45.1	44.8	43.3	41.9	40.4	30
32				42.6	42.4	41.9	41.6	41	40.6	39.8	38.5	37	32
34				38.9	38.8	38.3	38	37.4	37	36.4	35.5	34.1	34
36					35.7	35.2	34.8	34.2	33.9	33.2	32.8	31.4	36
38					32.9	32.4	32	31.4	31.1	30.4	30	29	38
40					30.4	29.9	29.6	29	28.6	28	27.5	26.8	40
42						27.7	27.3	26.7	26.4	25.7	25.3	24.6	42
44						25.6	25.3	24.7	24.4	23.7	23.3	22.6	44
46							23.5	22.9	22.6	21.9	21.5	20.8	46
48							21.8	21.2	20.9	20.2	19.8	19.1	48
50							20.3	19.7	19.4	18.7	18.3	17.6	50
52								18.3	18	17.3	16.9	16.2	52
54								17	16.7	16	15.6	14.9	54
56								15.8	15.5	14.8	14.4	13.7	56
58									14.4	13.7	13.3	12.6	58
60									13.4	12.7	12.3	11.6	60
62										11.7	11.3	10.6	62
64										10.8	10.4	9.7	64
66										10	9.6	8.9	66
68											8.8	8.1	68
70											8.1	7.4	70
72												6.7	72
74												6	74
76												5.4	76

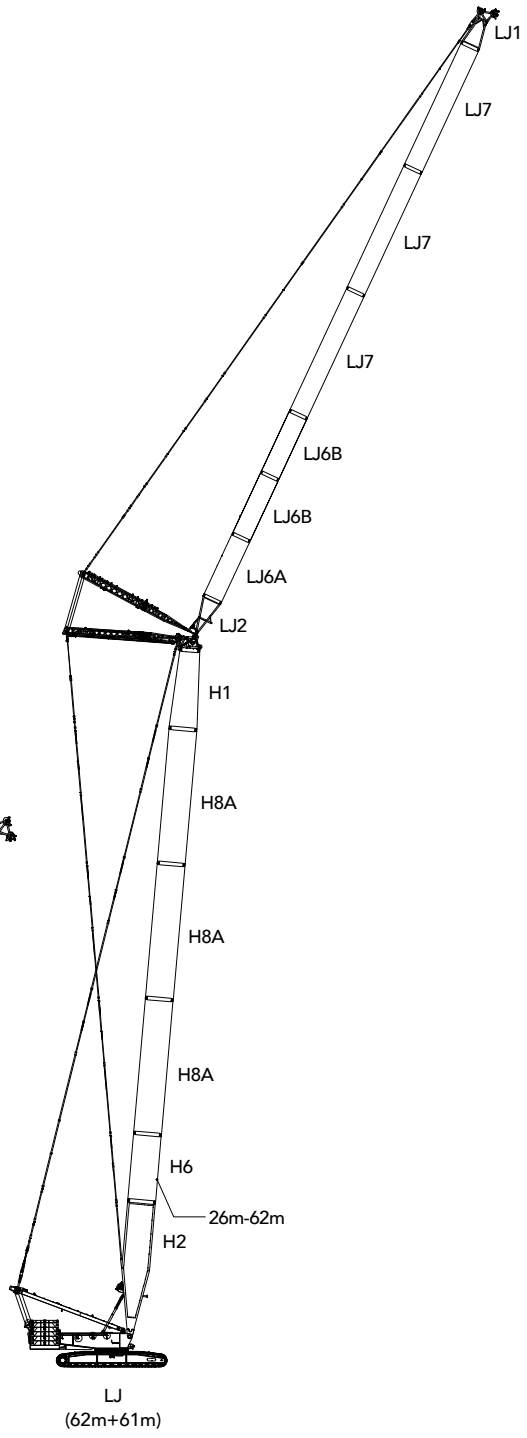
Boom Combination in LJ

LJ Boom Combination

Jib length (m)	6m-LJ6A	6m-LJ6B	12m-LJ7	Boom length (m)	Boom angle (°)
19	1	1	-	26~62	65~85
25	1	-	1		
31	1	1	1		
37	1	-	2		
43	1	1	2		
49	1	-	3		
55	1	1	3		
61	1	2	3		

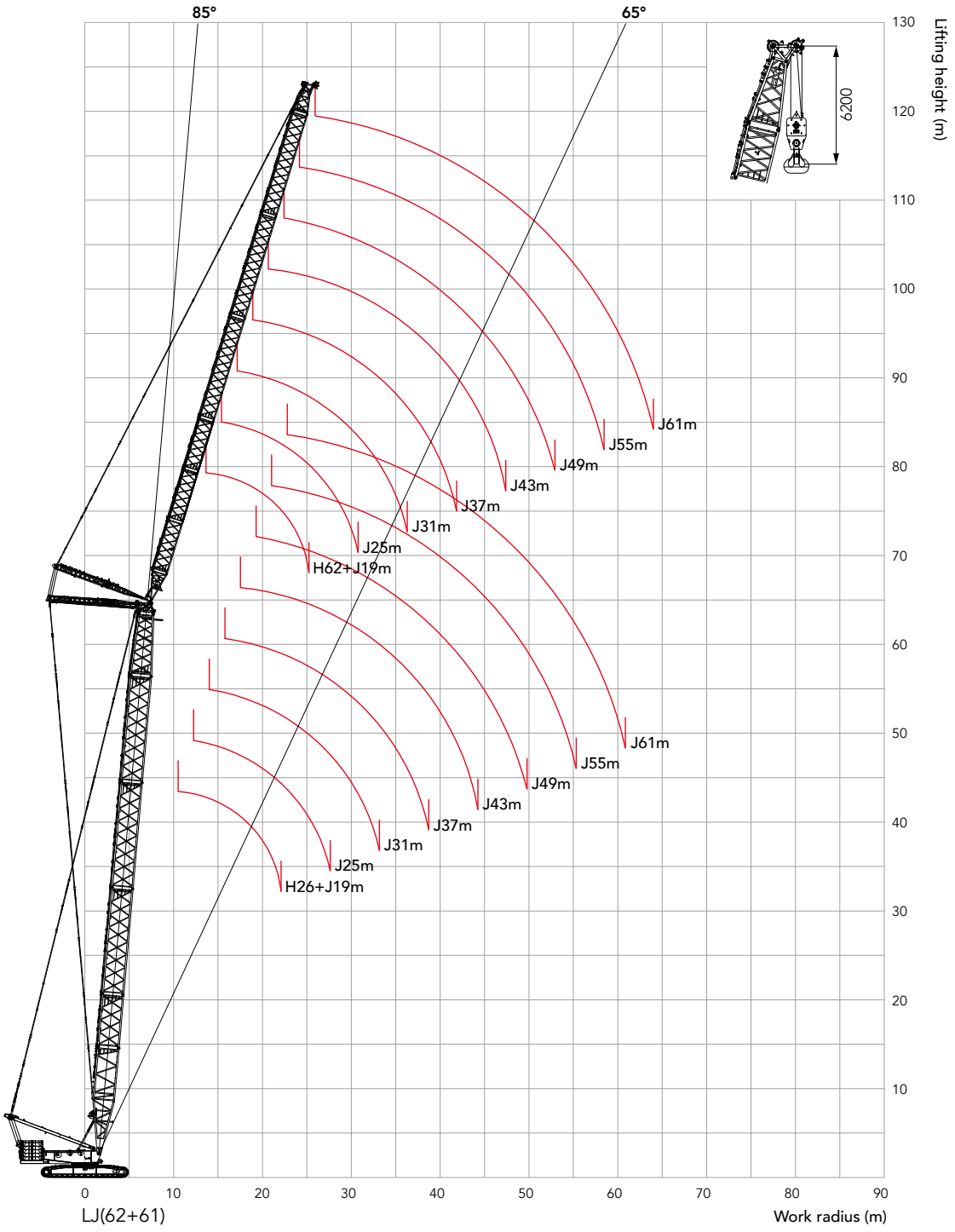


Note: LJ6B and LJ7 are interchangeable with 320A-1



LJ
(62m+61m)

Working Range of LJ



Unit: t

Load Chart of LJ Configuration

Note:
1.Actual Lifting Capacity shall deduct the weight of hook blocks, lifting devices, and wire ropes reeving between the hooks and boom top from the rate capacity.
2. Rated capacity in the load charts is calculated when the crane is on firm and level ground, and the load lifting is slowly and steadily.

Load chart - LJ (Boom length 26m)									
Boom angle 85°, Rear counterweight 130t, carbody counterweight 40t									
R (m) \ BL (m)	19	25	31	37	43	49	55	61	BL (m) \ R (m)
11	101								11
12	104								12
13	108	108							13
14	112	112	112						14
15	118	116	112						15
16	107	110	106	96.7					16
17	99.1	101	100	94.3					17
18	91.6	94	94.9	92	81.1				18
19	85.1	87.3	88.2	87.2	79.6				19
20	79.4	81.5	82.3	82.9	78.1	64.4			20
22	70	71.8	72.5	74.3	73.3	62.2	50.7		22
24		64.1	64.7	66.2	66.1	59.5	50.1	40.2	24
26		57.8	58.3	59.7	59.5	56.8	49.5	39.7	26
28		51.7	53	54.2	54	53.7	47.3	39.1	28
30			48.5	49.5	49.3	49	44.8	38.3	30
32			44.6	45.5	45.2	45	42.4	36	32
34			40	41.9	41.7	41.5	40.3	34	34
36				38.8	38.7	38.5	38.1	32.1	36
38				35.4	36	35.8	35.4	30.3	38
40				30.8	33.5	33.4	33	28.5	40
44					28.7	29.3	29	25.4	44
48						25.9	25.6	22.4	48
52							22.4	20.2	52
56							19.6	18	56
60								16.1	60

Unit: t

Load Chart of LJ Configuration

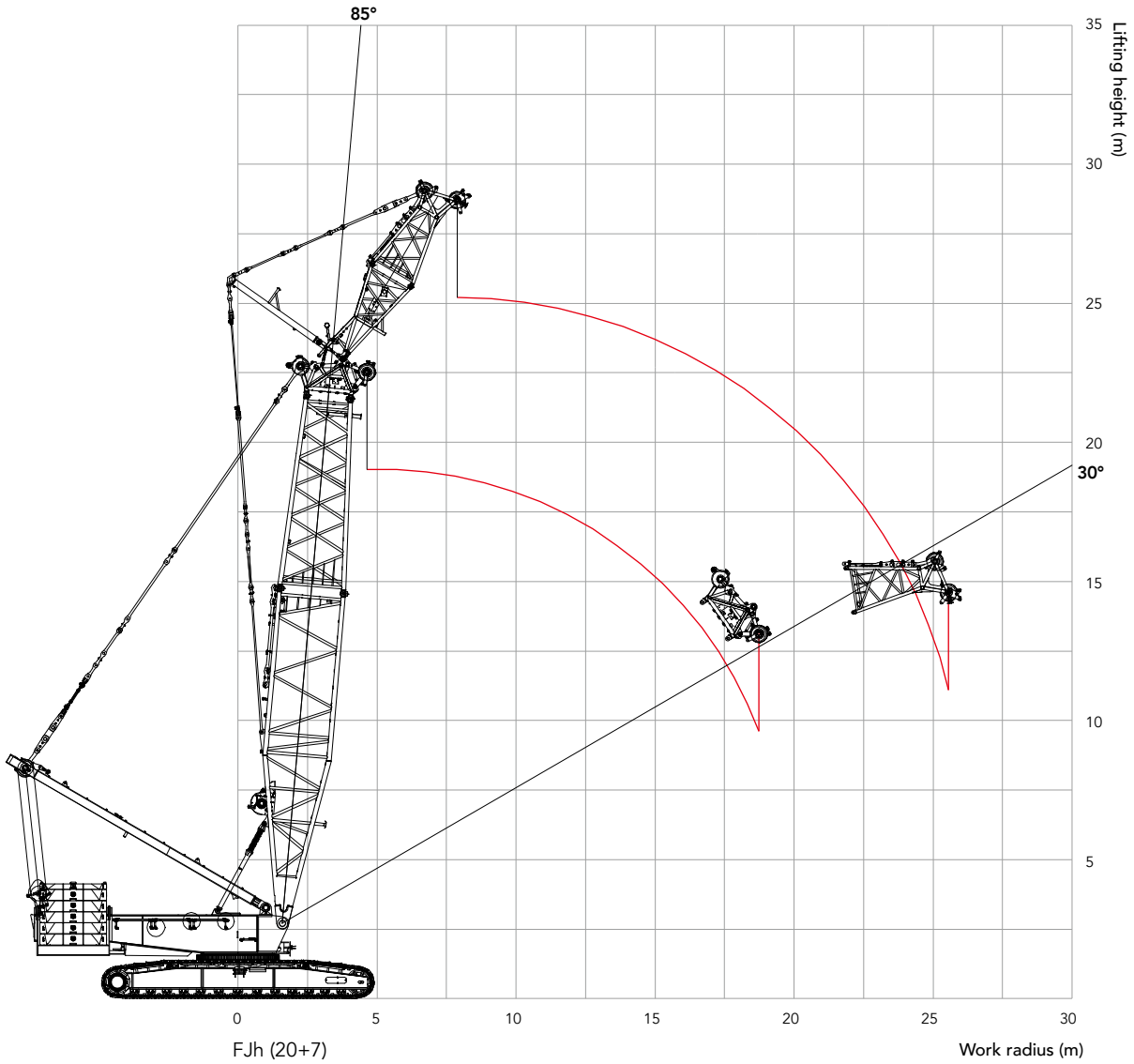
Load chart - LJ (Boom length 44m)									
Boom angle 85°, Rear counterweight 130t, carbody counterweight 40t									
R (m) \ BL (m)	19	25	31	37	43	49	55	61	BL (m) \ R (m)
13	103								13
14	106	107							14
15	108	105							15
16	102	99.1	95.9						16
17	96.7	93.6	90.6						17
18	90.5	88.7	85.9	83.4					18
19	85.3	84.2	81.6	79.3					19
20	80.1	80.2	77.7	75.6	67.7				20
22	71.9	72.6	71	69	67	54.3			22
24	64.6	65.6	65.3	63.5	61.7	54	43.8		24
26		59.7	59.8	58.8	57.1	53.5	43.4	35.3	26
28		55.1	55.1	54.6	53.1	51.7	43	34.9	28
30		49.6	50.8	50.9	49.6	48.3	42.6	34.5	30
32			47.1	47.1	46.5	45.3	42.1	34.1	32
34			43.9	44.1	43.7	42.6	40.5	33.7	34
36				40.9	40.9	40.2	38.6	32.5	36
38				38.4	38.4	38	36.7	30.8	38
40				34.6	35.8	35.6	34.8	29	40
44					31.3	31.2	30.8	26.1	44
48						27.7	27	23.2	48
52						23.2	23.8	20.8	52
56							20.8	18.5	56
60								16.8	60
64								15.1	64

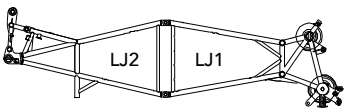
Unit: t

Load Chart of LJ Configuration

Load chart - LJ (Boom length 62m)									
Boom angle 85°, Rear counterweight 130t, carbody counterweight 40t									
R (m) \ BL (m)	19	25	31	37	43	49	55	61	BL (m) \ R (m)
14	101								14
15	96.7								15
16	91.3	87.5							16
17	86.5	83.9							17
18	82.2	79.7	72.8						18
19	78.2	75.9	71.6	61.5					19
20	74.7	72.5	70.2	61					20
22	67.4	66.4	64.4	59.6	50.9				22
24	61.5	60.8	59.4	57.8	50	42.4			24
26		55.8	55.1	53.6	49	41.9	35.2	29.4	26
28		51.5	50.8	50	47.8	41.2	34.8	29.1	28
30		47.9	47.1	46.7	45.4	40.4	34.3	28.8	30
32			44.2	43.5	42.6	39.6	33.8	28.5	32
34			41.3	40.9	40.1	38.7	33.3	28.1	34
36			39	38.1	37.6	36.9	32.7	27.7	36
38				35.9	35.4	34.8	32.1	27.3	38
40				34.1	33.4	32.8	31.4	26.8	40
44					30	29.4	28.7	25.9	44
48					26.6	26.5	25.9	23.4	48
52						23.1	23	21.1	52
56							20.2	19	56
60							17.6	17.1	60
64								15.6	64

Working Range of Shield application FJh



7m fixed jib 

Note: 7m fixed jib consists of jib base LJ2 and jib top LJ1

Unit: t

Load Chart of Shield application FJh

Load chart - Shield application FJh			
Boom 20m, Jib 7m, boom to jib angle 25°, Rear counterweight 130t, carbody counterweight 40t			
Main hook radius	Main hook capacity (empty load on aux. hook)	Aux. hook capacity (empty load on main hook)	Auxiliary hook radius
5	310		5
6	305		6
7	269		7
8	230		8
9	200	114	9
10	190	109	10
11	157	105	11
12	140	101	12
13	127	97.8	13
14	115	94.6	14
15	105	91.8	15
16	95	89.2	16
17	85.6	86.9	17
18	77.4	84.8	18
19	70.2	82.9	19
20	63.8	79.1	20
22		68.4	22
24		59.7	24
26		52.3	26

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