



SCC3500A-6

Crawler Crane 350 Tons Lifting Capacity

Quality Changes the World



Max. lifting capacity: 350t
Max. lifting moment: 2380t·m
Max. boom length: 84m
Max. luffing jib combination: 60m+60m
FJh configuration:24m+9m

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-6

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SCC3500A-6
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 European Non-road Tier III Emission Standard and Chinese Non-road 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: Replaceable paper element;
- Batteries: Two 12V×180Ah capacity batteries, connected in series;
- Fuel tank capacity: 550L.

Electrical Control System

- Self-developed SYIC-II integrated control system is adopted with higher integration, precise operation and reliable quality;
- Control system consists of power system, engine system, main control system, LMI system, auxiliary system and safety monitoring system. J1939 CAN2.0B system is used to connect systems;
- Hard software system: controller are adopted by flexible functions setup which can definite controller function and adjust its speed 100 percent, more accurate and fluent operation; The wire harness uses an injection mold to resist the 5G shock impact;
- Waterproof level satisfies IP67;
- Remote wireless control system: optional offer, integrates main functions of the whole machine, enables fast disassembly, with a display real-time monitoring equipment.
- Intelligent technology: integrates four control technologies: intelligent interaction, intelligent assistance, intelligent safety, intelligent operation, makes operation easier and more convenient.
 - ① Intelligent interaction: Bluetooth to music.
 - ② Intelligent assistance: One-button outrigger leg, wire rope, mast up and down, straight forward and automatic forward.
 - ③ Intelligent safety: Boom area restriction, flexible parking, configuration intelligent identified, main & aux. hook intelligently switched, ground pressure detected, winch rope identified;
 - ④ Intelligent operation: Monitoring system, predictive maintenance, overload management.

Hydraulic System

- Main pumps: electrically proportionate controlled 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. The operating components are electrical control handle, one dual-travel electrically-controlled pedal to control various actuators proportionally;
- Way of cooling: air-cooled heat exchanger, fan core and multi-stage cooling;
- Filter: large flow, high precision filter, with bypass valve and transmitter, which can remind the user to replace the filter element in time;
- Max. pressure of system:
 - Main/aux. load hoist, boom/jib hoist, swing and travel system: 35Mpa;
 - Servo pressure: 3.5 MPa;
 - 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 hoist mechanisms, jib hoist 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 Hoist Mechanism	Rope speed on the outer work layer	130m/min
	Wire rope diameter	26mm
	Boom luffing wire rope diameter	400m
Jib Hoist Mechanism	Rope speed on the outer work layer	136m/min
	Wire rope diameter	20mm
	Boom luffing wire rope diameter	410m

Swing Mechanism

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

Product Specification



Cab and Control

- Novel operator's cab with fashionable profile, nice interior and large window glass, which can tilt up by 20° to provide panorama view. There are low and high-beam lights, back-view mirror, heater and A/C, radio and other functions. The layout of seat, handles, control buttons are designed with ergonomic principles to make operation more comfortable;
- Cab layout: Integrated 10.4-inch touch screen, programmable smart buttons and optional vibration handle, and man-machine interaction interface are more improved;
- Armrest box: on the left and right armrest box are control handles, electrical switches, emergent stop and ignition switch. The armrest box can be adjusted along with the seat;
- Seat: multi-way and multi-level floating adjustable seat with unload switch;
- A/C: cool and heat air; optimized air channels and vents;
- Multiple cameras can present on the monitor at the same time to realize backing video, real-time monitoring of hook working, travel area, winch and wire rope reeving conditions.

Counterweight

- It adopts general 10t counterweight of large tons' SANY crawler crane, which decreases the cost of customers' purchase and usage; the counterweights of whole machine are 10t per pack equal and one small aux. crawler crane assisted will be good on the spot;
- The stacking mode of boom inserts and blocks is used for easy assembly, disassembly and transportation, legal and cost-saving.

Name	Quantity	Length	Width	Height	Unit weight
Carbody counterweight	4	5.89	1.70	0.37	10
Rear counterweight	12	2.80	2.40	0.39	10
Rear counterweight tray	2	3.20	2.67	1.78	10

Upperworks

- High-strength steel weld framework, several cross beams supported. 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 81pads x 2.

Track roller

- Maintenance-free track rollers are used.

Outrigger

- It is used by one-button flat function, real-time calculates the whole machine's gravity position; one-button outrigger action control. quick to flat, easy for track disassembly transportation, installment time decreased and efficiency increased.



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 24m base boom to the maximum length 84m;
- Composition: boom base 12m×1, transitional insert 10.5m×1, boom top 1.5m×1, boom insert 6m×2, boom insert 12m×4;
- Boom length varies from basic boom of 24m to max. length of 84m, increasing every 6m. The extension jib is mounted on the boom top.

Extension jib

- It adopts weld structure, connected by pin and boom tip.

Luffing 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 21m to 60m, increasing by every 3m;
- Composition: jib top 4.5m, jib base 4.5m, inert 3m×1, 6m×2, 12m×3; it can be installed on the boom(36~60m);
- 9m shield jib consists luffing jib top and base, meets more demands.

Boom tip sheave block

- Weld structure, connected to the boom through pin, used for aux. hook.

Hook

- There are seven types of hook blocks are available:

Name of Hook Block	Max. load weight	QTY	No. of sheaves	Unit weight (t)
350t hook block	350	1	13	6.64
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 ball hook	100	1	3	2.13
50t ball hook	50	1	1	1.7
16t ball hook	16	1	-	0.9

Note: The above configuration are complete configuration(except hook). Concrete configuration shall be subject to contract order.

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.

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.

Boom Hoist Drum Lock

- Pawl lock is used on boom hoist winch, which needs to unlock by switch before operation, in order to prevent mis-operation of handles and ensure safety during nonwork time.

Swing Lock Device

- The electronic lock, normally locked, shall be unlocked before operation, to avoid mis-operation.
- The cylinder locking device can lock the lowerworks and upperworks together, at for positions, front, rear, left and right.

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. The maximum back-stop cylinder is 38t;
- 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 maximum back-stop force is 50t.

Boom Angle Indicator

- Pendulum angle indicator is fixed on the side of boom base close to the cab, so as to provide convenience to the operator.

Hook Latch

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



Safety Devices

Tri-color Load Indicator

- 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.

Audio-visual Alarm

- When the engine is working, the light flashes; when the machine is traveling or swinging, it sends out sirens.

Swing Indicator Light

- The swing indicator light flashes during traveling or swing.

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.

Pharos

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

Anemometer

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

Electronic Level 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

- Standard remote monitoring system provides functions such as GPS location, GPRS data transfer, machine operation status inquiry and statistics, operation data monitoring and analysis, remote diagnosis of failures.



SCC3500A-6
SANY CRAWLER CRANE
350 TONS LIFTING CAPACITY

QUALITY CHANGES THE WORLD

Technical Parameters

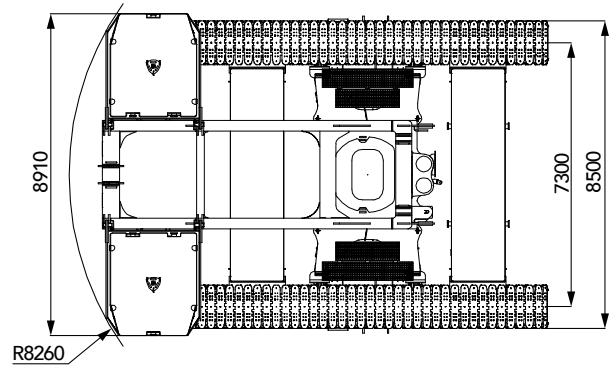
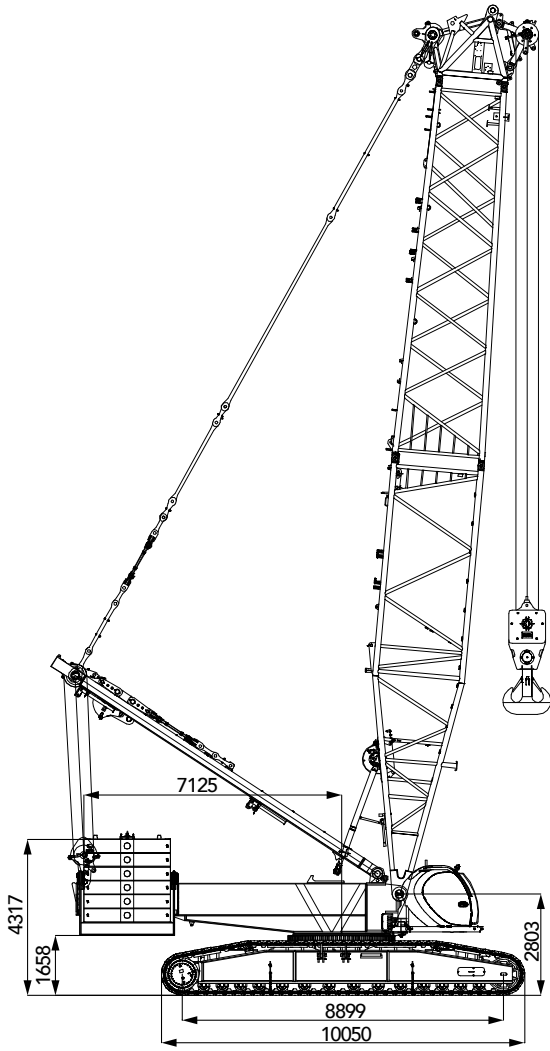
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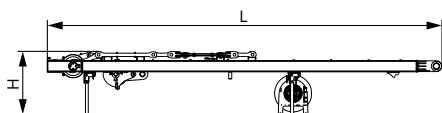
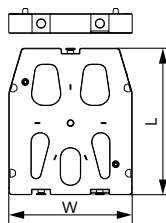
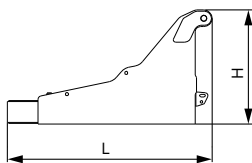
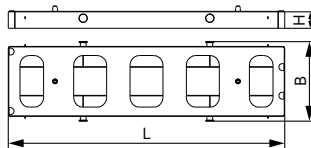
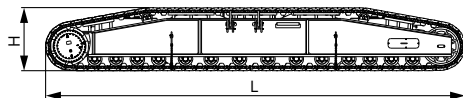
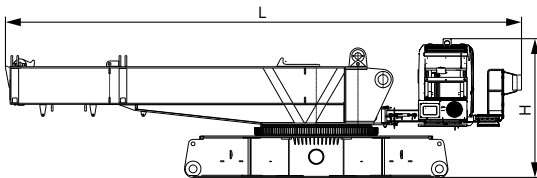
Major Performance Specifications

Major Performance & Specifications of SCC3500A-6			
Performance Indicators		Unit	Parameter
H Configuration	Max. rated lifting capacity	t	350
	Max. rated lifting capacity	t·m	2380
	Boom length	m	24~84
	Boom angle	°	30~85
Heavy Fixed Jib	Boom + fixed jib (Shield Application)	m	24+9
	Boom to jib angle	°	20
Luffing Jib	Longest boom + longest luffing jib	m	60+60
	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	44
	Transport dimension (L × W × H)	mm	12000×3000×3400
	Average ground pressure	MPa	0.14

Outline Dimension



Transport Dimension



Basic machine ×1

Length(L)	12.40m
Width(W)	3.00m
Height(H)	3.40m
Weight	44.0t

Crawler ×2

Length(L)	10.00m
Width(W)	1.57m
Height(H)	1.50m
Weight	25.2t

Carbody counterweight ×4

Length(L)	5.89m
Width(W)	1.70m
Height(H)	0.37m
Weight	10.0t

Rear counterweight tray ×2

Length(L)	3.20m
Width(W)	2.67m
Height(H)	1.78m
Weight	10.0t

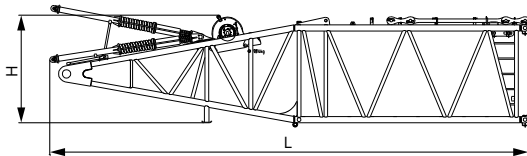
10t counterweight block ×12

Length(L)	2.80m
Width(W)	2.40m
Height(H)	0.39m
Weight	10.0t

Main mast(with boom hoist winch) ×1

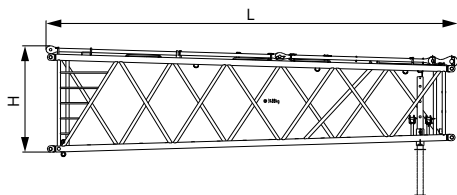
Length(L)	10.80m
Width(W)	2.25m
Height(H)	1.70m
Weight	8.75t

Transport Dimension



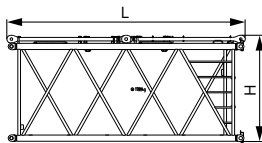
Boom base(with jib hoist winch) ×1

Length(L)	12.50m
Width(W)	2.97m
Height(H)	2.80m
Weight	10.23t



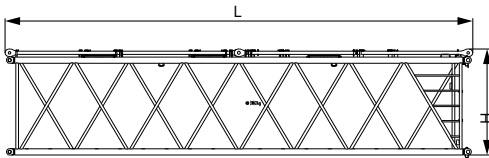
Tapered boom insert ×1

Length(L)	10.80m
Width(W)	2.97m
Height(H)	2.78m
Weight	4.15t



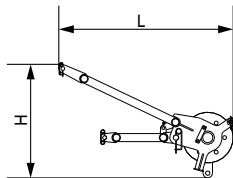
6m boom insert ×2

Length(L)	6.23m
Width(W)	2.97m
Height(H)	2.77m
Weight	2.31t



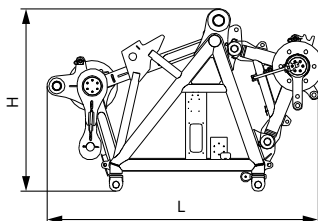
12m boom insert ×4

Length(L)	12.24m
Width(W)	2.97m
Height(H)	2.77m
Weight	3.695t



Extension jib ×1

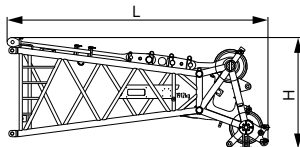
Length(L)	2.20m
Width(W)	0.90m
Height(H)	1.44m
Weight	0.35t



Boom tip(with pulley block) ×1

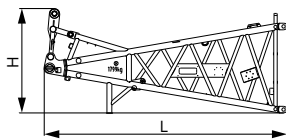
Length(L)	3.45m
Width(W)	2.28m
Height(H)	2.30m
Weight	4.4t

Transport Dimension



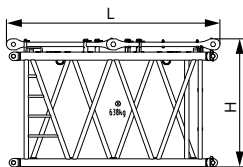
Jib top ×1

Length(L)	5.02m
Width(W)	2.25m
Height(H)	2.14m
Weight	2.3t



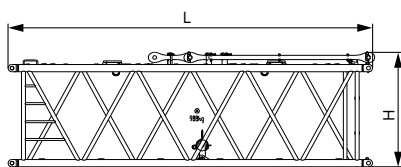
Jib base ×1

Length(L)	4.67m
Width(W)	2.25m
Height(H)	2.00m
Weight	1.8t



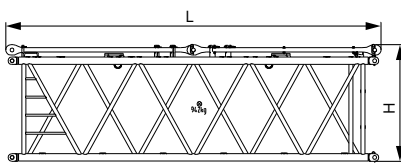
3m jib insert ×1

Length(L)	3.20m
Width(W)	2.25m
Height(H)	1.93m
Weight	0.76t



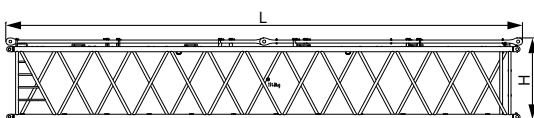
6m jib insert A ×1

Length(L)	6.20m
Width(W)	2.25m
Height(H)	1.93m
Weight	1.17t



6m jib insert B ×1

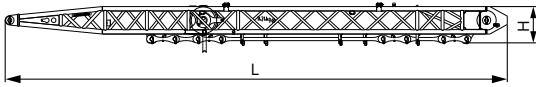
Length(L)	6.20m
Width(W)	2.25m
Height(H)	1.93m
Weight	1.2t



12m jib insert ×3

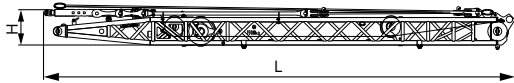
Length(L)	12.20m
Width(W)	2.25m
Height(H)	1.93m
Weight	2.2t

Transport Dimension



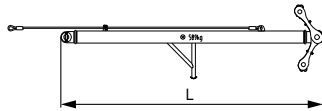
Front mast ×1

Length(L)	10.85m
Width(W)	1.50m
Height(H)	0.79m
Weight	1.9t



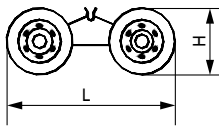
Rear mast ×1

Length(L)	10.20m
Width(W)	2.10m
Height(H)	0.76m
Weight	2.52t



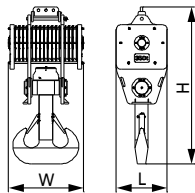
Shield mast ×1

Length(L)	4.70m
Width(W)	2.10m
Height(H)	0.25m
Weight	0.9t



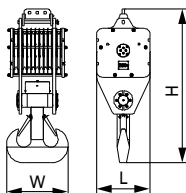
Trolley ×1

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



350t hook ×1

Length(L)	1.02m
Width(W)	1.51m
Height(H)	3.26m
Weight	6.64t

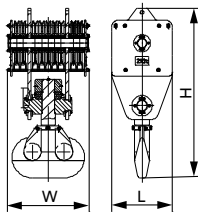


260t hook ×1

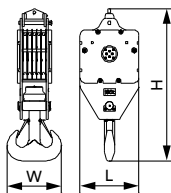
Length(L)	1.02m
Width(W)	1.18m
Height(H)	2.93m
Weight	4.8t

Transport Dimension

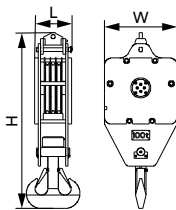
- 1.The transport dimensions of each part in the table are schematic, not proportional to the real parts. The dimensions are designed value without package considered.
- 2.Weight is designed value that the actual manufactured part may deviate a little. The total weight of counterweight is 180t.
- 3.The dimensions and weight of each part may change due to product upgrading. The final values are subject to the new product



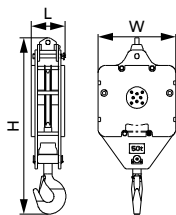
200t hook ×1	
Length(L)	0.89m
Width(W)	1.20m
Height(H)	2.49m
Weight	3.7t



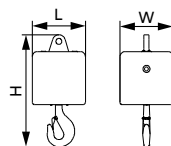
160t hook ×1	
Length(L)	1.02m
Width(W)	0.94m
Height(H)	2.64m
Weight	3.02t



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



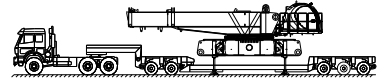
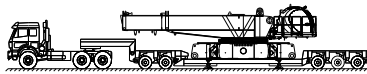
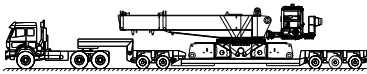
50t hook ×1	
Length(L)	0.45m
Width(W)	1.00m
Height(H)	2.30m
Weight	1.7t



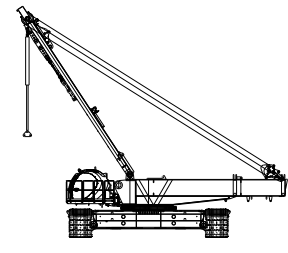
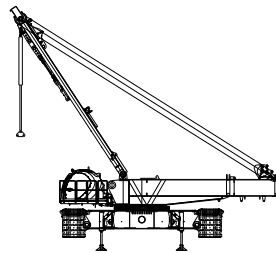
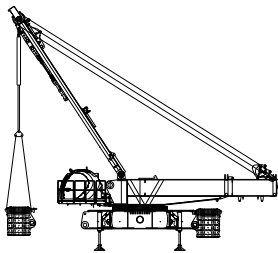
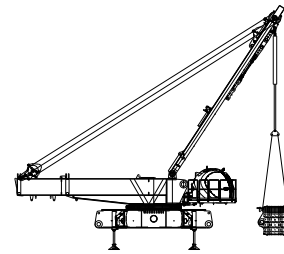
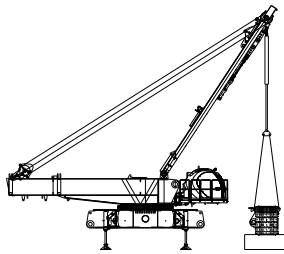
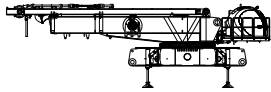
16t hook ×1	
Length(L)	0.53m
Width(W)	0.53m
Height(H)	1.10m
Weight	0.9t

Self-assembly Plan

1) Self-assembly of basic machine

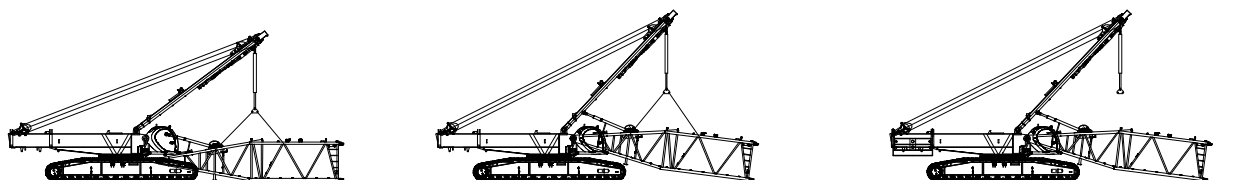


2) Self-assembly of track frame

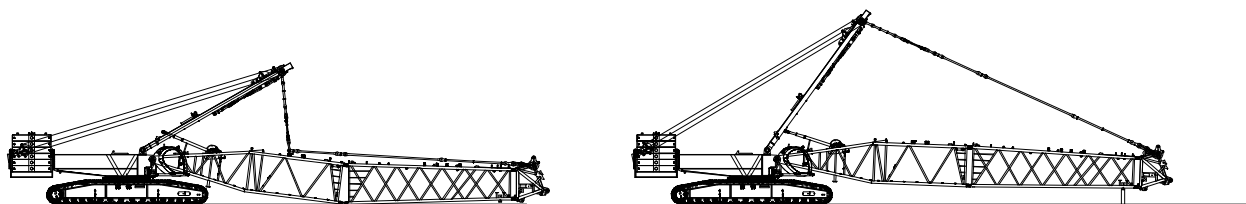


Self-assembly Plan

3) Self-assembly of boom base

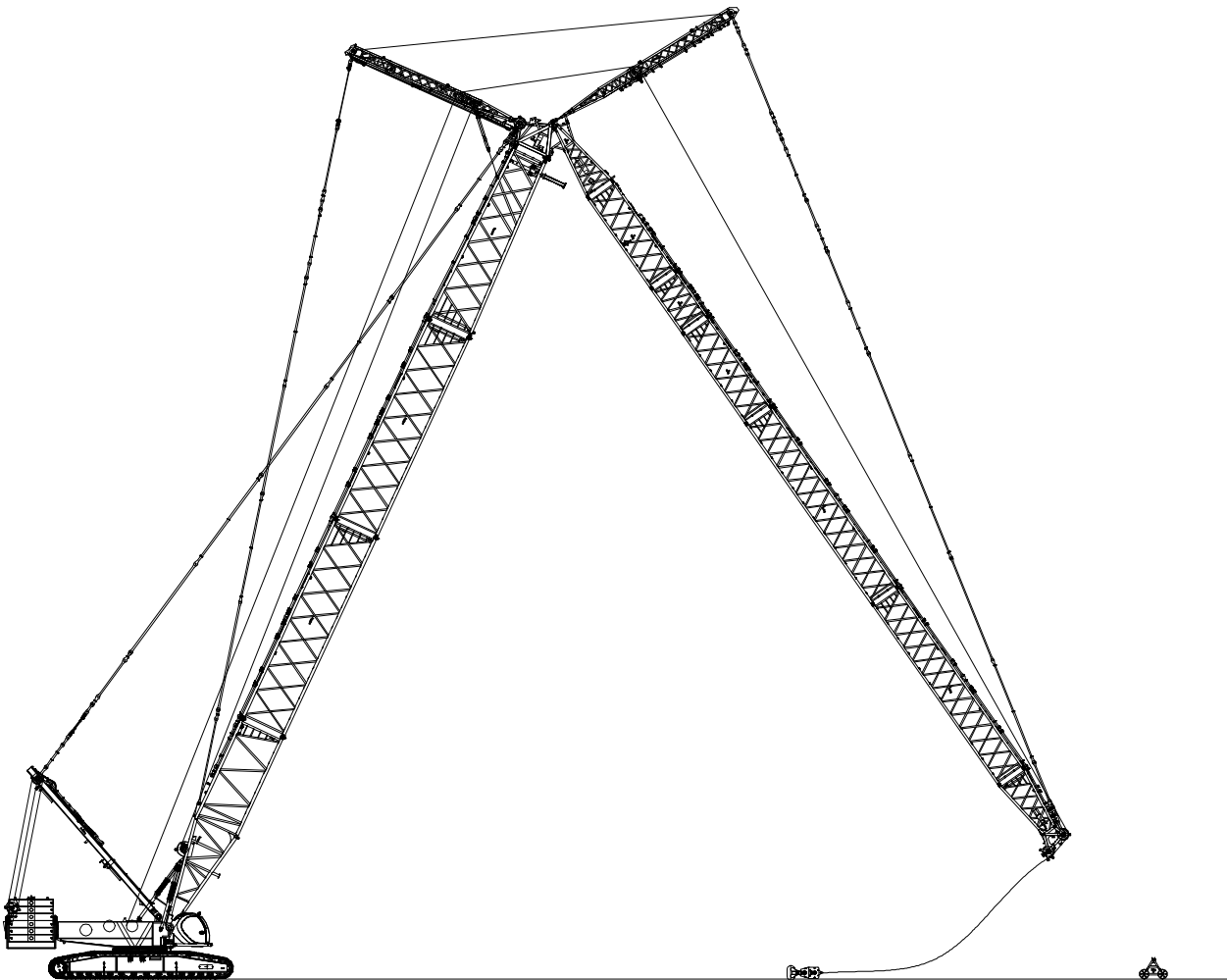
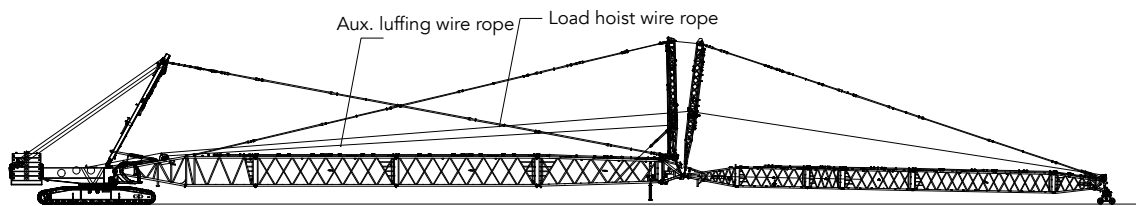


4) Schematics of boom assembly



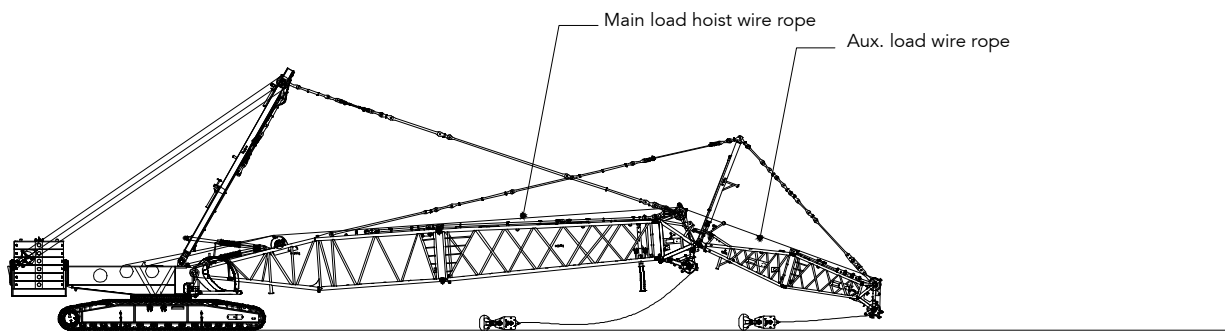
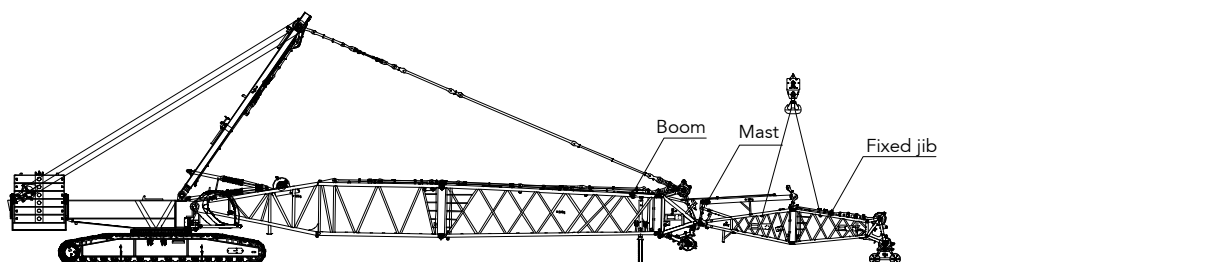
Self-assembly Plan

5) Luffing jib assembly



Self-assembly Plan

6) Shield configuration assembly





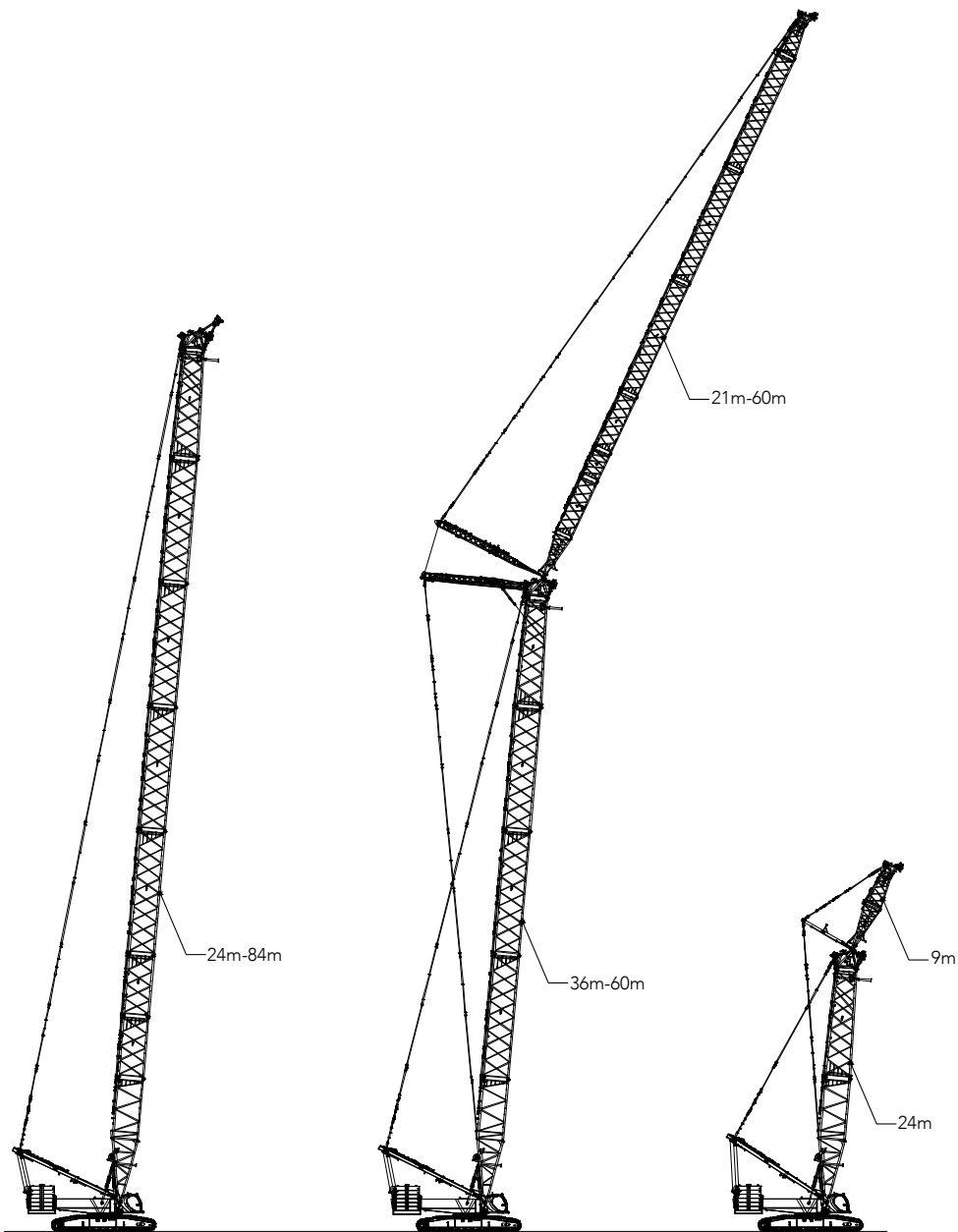
SCC3500A-6
SANY CRAWLER CRANE
350 TONS LIFTING CAPACITY

QUALITY CHANGES THE WORLD

Configurations

- Page 23 Configurations
- Page 24 H Configuration
- Page 27 LJ Configuration
- Page 32 FJh Configuration

Boom Combination



H Configuration
Max. lifting capacity: 350t×6m
Max. boom: 84m

LJ Configuration
Max. lifting capacity: 135t×14m
Max. boom: 60m+60m

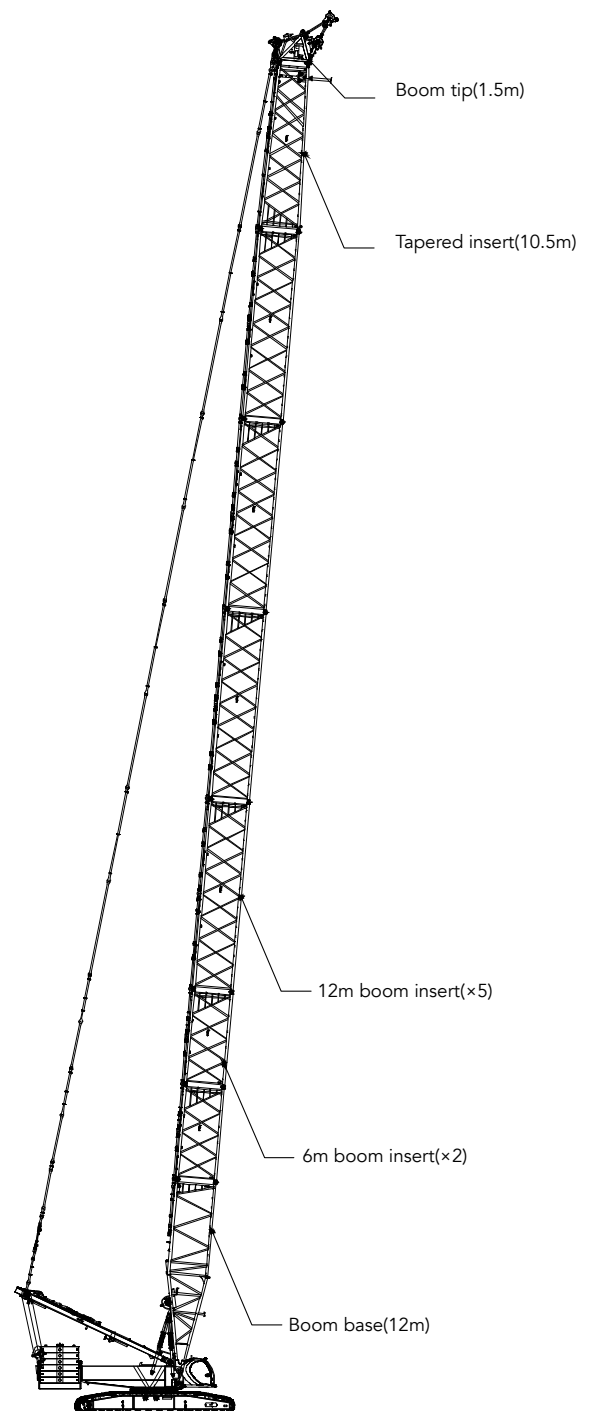
Jh Configuration
Lifting capacity(main hook): 228t×10m
Lifting capacity(aux. hook): 125t×10m

Configuration	Boom Combination	Boom Length
H	Boom	84m
LJ	Boom+Luffing jib	60m+60m
FJh(Shield)	Boom+Heavy fixed jib	24m+9m

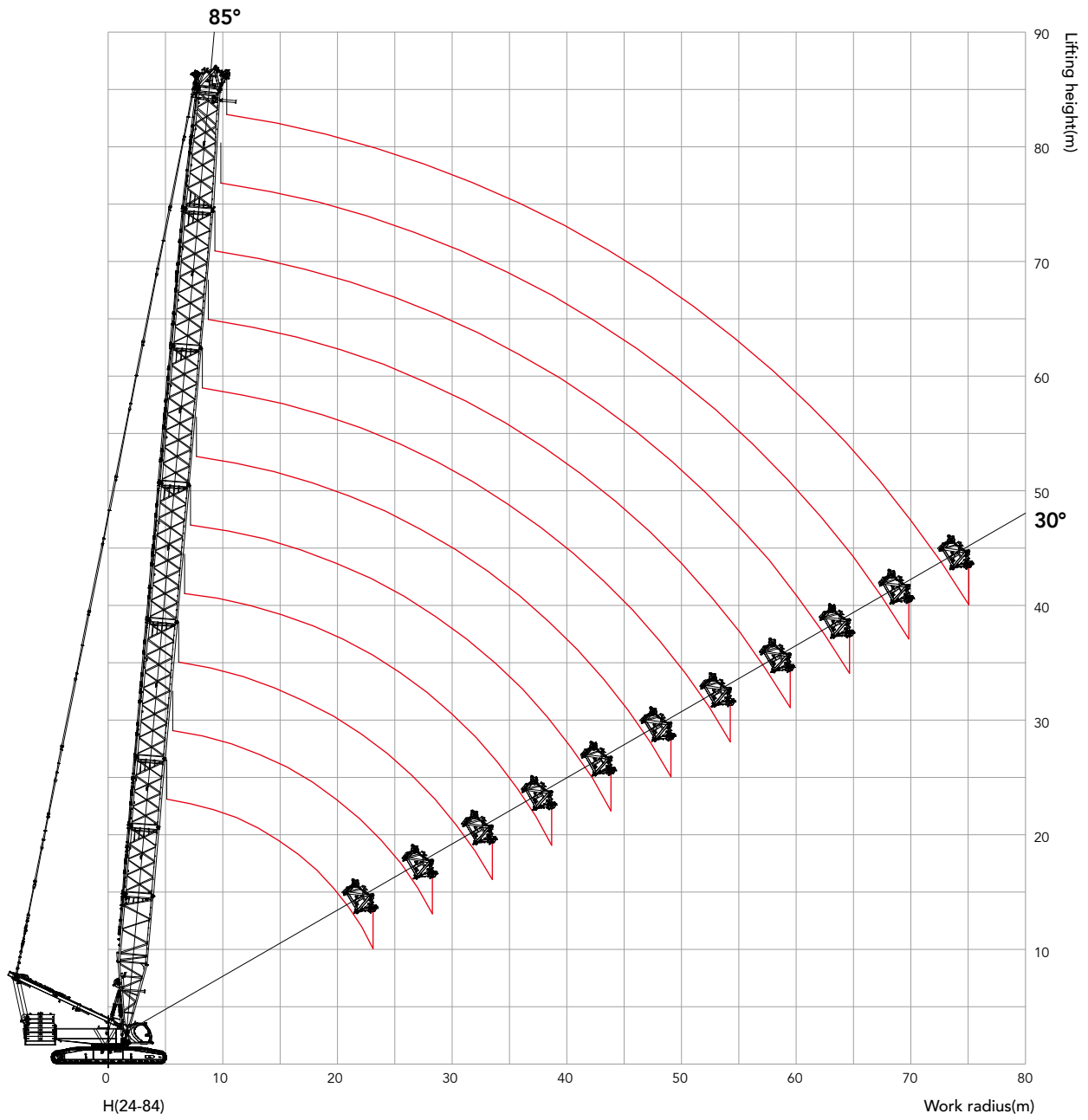
Note: The schematics above are just reference for loading only.

H Boom Combination

H Boom Combination		
Boom length(m)	Boom insert	
	6 m	12m
24	-	-
30	1	-
36	-	1
42	1	1
48	-	2
54	1	2
60	-	3
66	1	3
72	2	3
78	1	4
84	2	4



H Working Radius



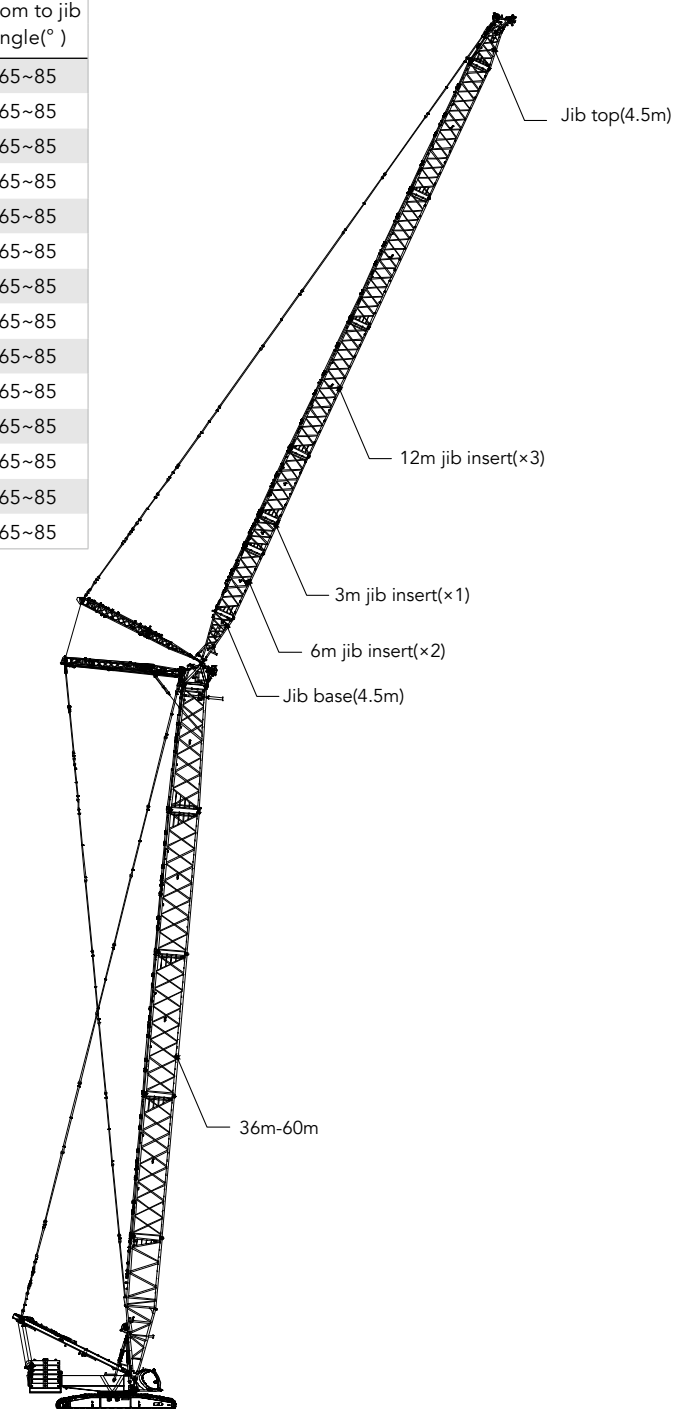
H Load Chart

- 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

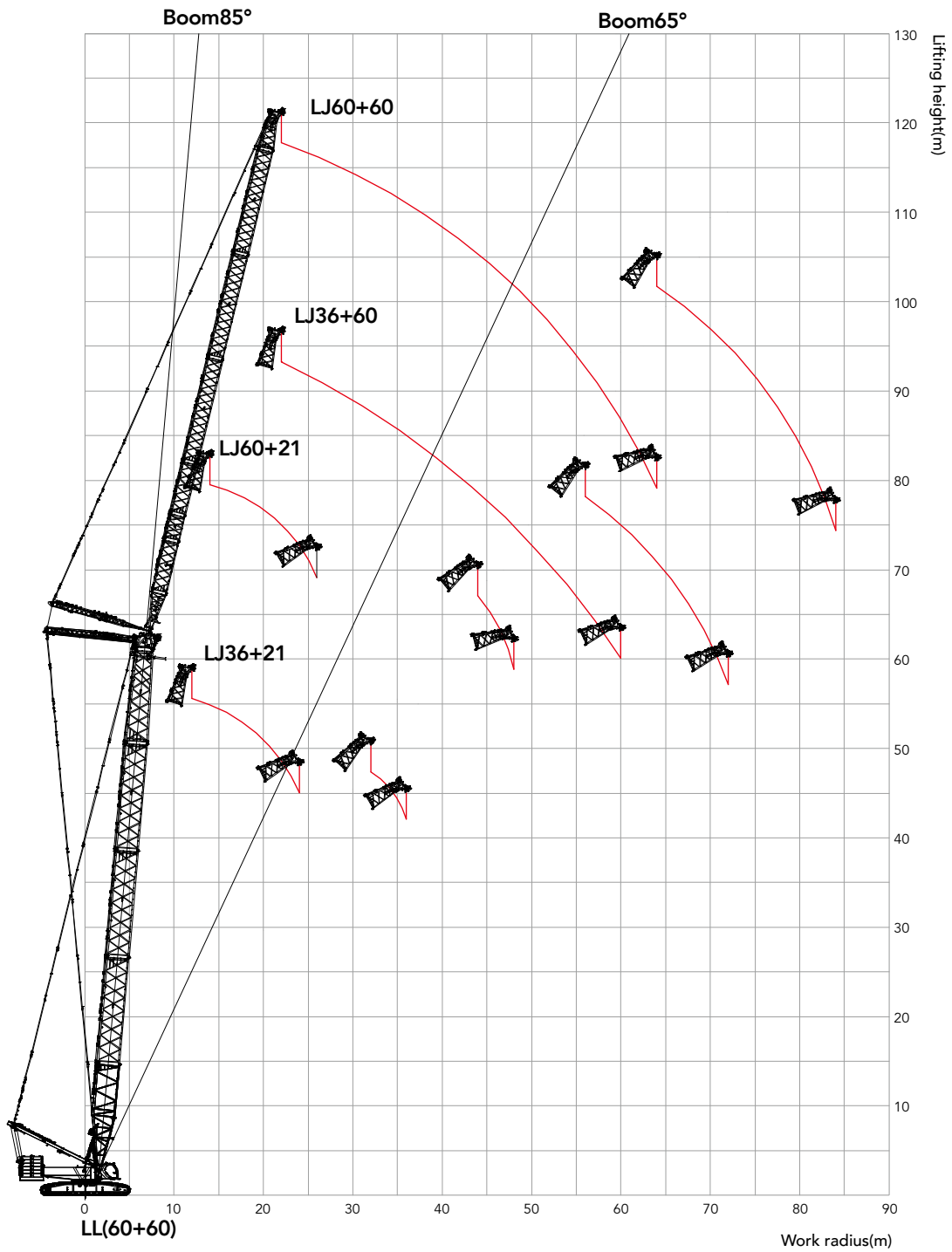
Load chart-H(Boom 24~84m, Rear counterweight 140t, Carbody counterweight 40t)												
Radius(m)	24	30	36	42	48	54	60	66	72	78	84	Radius(m)
6	350											6
7	334	333	333	276								7
8	294	293	293	272	260	230						8
9	262	262	257	243	231	219	208	190				9
10	238	234	227	216	206	196	187	179	165	144		10
11	214	213	203	194	185	177	170	163	156	142	109	11
12	194	192	184	176	168	161	155	149	143	138	109	12
14	148	160	154	148	142	137	132	127	123	118	109	14
16	122	122	131	127	122	118	114	110	107	103	100	16
18	103	103	103	111	107	103	100	97.4	94.3	91.2	88.5	18
20	89.7	89.7	89.7	89.3	95.4	92.3	89.5	86.7	84	81.3	78.9	20
22	78.5	78.5	78.5	78.1	77.8	82.7	80.3	77.8	75.4	73	70.9	22
24		69.6	69.6	69.2	68.9	68.2	72.6	70.3	68.2	66	64.1	24
26		62.2	62.3	61.8	61.5	60.9	65.8	64	62	60	58.3	26
28		56	56.1	55.7	55.4	54.7	54.3	58.5	56.7	54.8	53.2	28
30			50.9	50.5	50.2	49.5	49.1	48.5	52	50.3	48.8	30
32			46.4	46	45.7	45.1	44.6	44	47.7	46.3	44.9	32
34				42.1	41.8	41.2	40.7	40.1	39.6	42.7	41.4	34
36				38.7	38.4	37.7	37.3	36.7	36.1	35.5	38.3	36
38				35.6	35.4	34.7	34.3	33.7	33.1	32.5	35.5	38
40					32.7	32	31.6	31	30.4	29.8	29.3	40
44						27.4	27	26.4	25.8	25.2	24.7	44
48						23.6	23.2	22.6	22.1	21.4	20.9	48
52							20.1	19.5	18.9	18.2	17.8	52
56								16.8	16.2	15.5	15.1	56
60									13.9	13.2	12.8	60
64									11.9	11.2	10.8	64
68										9.4	9	68
72											7.4	72

LJ Combination

LJ Configuration					
Jib length (m)	Boom insert			Boom length(m)	Boom to jib angle(°)
	3 m	6m	12m		
21	-	2	-	36~60	65~85
24	1	2	-	36~60	65~85
27	-	1	1	36~60	65~85
30	1	1	1	36~60	65~85
33	-	2	2	36~60	65~85
36	1	2	1	36~60	65~85
39	-	1	2	36~60	65~85
42	1	1	2	36~60	65~85
45	-	2	2	36~60	65~85
48	1	2	2	36~60	65~85
51	-	1	3	36~60	65~85
54	1	1	3	36~60	65~85
57	-	2	3	36~60	65~85
60	1	2	3	36~60	65~85



LJ Working radius



Unit: t

Load chart-LJ

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 angle 85°, Jib 21~60m, Rear counterweight 140t, Carbody counterweight 40t) 1/3															
Boom 36m															
Radius(m)	21	24	27	30	33	36	39	42	45	48	51	54	57	60	Radius(m)
14	135	135	125	119											14
16	122	122	118	115	100	99.0	91.6								16
18	105	107	107	105	95.0	95.0	88.0	81.9	76.7						18
20	92.7	94.4	95.0	95.2	90.2	91.4	84.8	79.1	74.1	69.1	64.3	58.0			20
22	82.8	83.9	84.3	85.2	85.3	84.3	81.7	75.7	71.0	66.7	62.1	57.2	51.4	46.2	22
24	71.0	75.3	76.0	76.9	77.5	77.4	76.5	72.9	68.5	64.3	59.9	56.4	50.6	45.5	24
26		65.6	69.1	69.5	69.8	70.5	70.7	69.7	65.9	61.9	57.7	54.4	49.9	44.7	26
28		54.7	60.7	63.4	63.7	64.4	65.0	64.7	63.3	59.6	55.6	52.5	49.1	44.0	28
30			52.3	55.9	56.7	58.1	59.2	59.6	59.7	57.3	53.8	50.5	47.6	43.3	30
32				49.2	50.5	52.2	53.4	54.1	54.7	55.0	51.7	48.6	45.8	42.5	32
34				42.1	44.8	46.9	48.3	49.2	49.8	50.2	49.7	46.8	44.0	40.7	34
36					39.1	42.0	43.8	44.7	45.5	45.9	46.4	44.9	41.8	38.2	36
38						37.2	39.5	40.7	41.6	42.1	42.7	42.9	39.7	36.2	38
40						32.1	35.5	37.0	38.1	38.7	39.3	39.5	37.4	34.0	40
44								30.0	31.8	32.7	33.5	33.8	33.4	30.5	44
48									25.6	27.3	28.4	29.0	28.9	27.3	48
52											23.6	24.6	25.2	24.3	52
56												20.3	21.5	21.7	56
60													17.5	18.6	60

Load chart-LJ

Load chart-LJ
(Boom angle 85°, Jib 21~60m, Rear counterweight 140t, Carbody counterweight 40t) 2/3

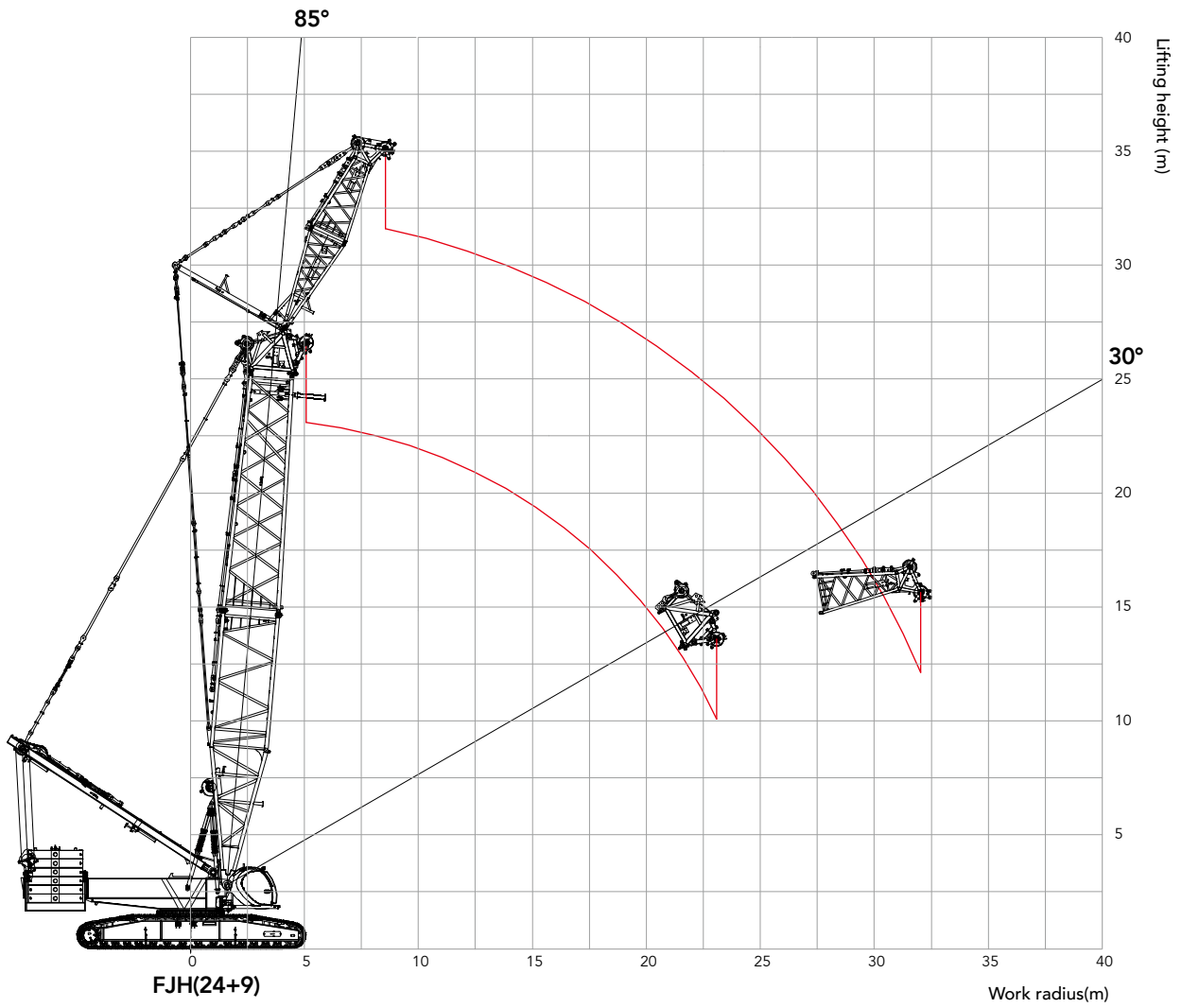
Boom 48m															
Radius(m)	21	24	27	30	33	36	39	42	45	48	51	54	57	60	Radius(m)
14	126	123	122												14
16	115	113	112	110	98.0										16
18	100	101	100	98.7	93.1	91.9	85.0	78.9							18
20	89.1	89.7	90.0	89.4	88.3	86.9	82.3	76.5	71.0	64.1					20
22	80.1	80.3	80.8	80.6	80.7	79.4	78.5	74.0	68.7	63.5	57.1	51.6	46.5		22
24	72.3	72.7	73.1	73.4	73.2	73.1	72.3	71.2	66.5	62.5	56.5	51.0	46.0	41.5	24
26	65.2	66.0	66.3	66.3	66.5	66.9	67.0	66.0	64.2	60.5	55.9	50.4	45.4	41.0	26
28		60.5	60.7	60.8	61.0	61.1	61.4	61.3	60.6	58.4	54.6	49.8	44.8	40.4	28
30			56.2	56.3	56.1	56.3	56.3	56.3	56.7	55.8	52.8	49.2	44.3	39.9	30
32			48.8	52.2	52.1	52.1	52.1	52.2	52.3	52.4	50.9	47.8	43.7	39.3	32
34				46.6	48.4	48.7	48.5	48.6	48.7	48.6	48.5	46.1	43.1	38.8	34
36					42.7	45.0	45.4	45.1	45.2	45.4	45.3	44.5	41.8	38.2	36
38					36.8	40.3	42.2	42.4	42.4	42.2	42.2	42.1	39.9	36.6	38
40						35.5	38.1	39.4	39.7	39.8	39.7	39.3	38.0	34.5	40
44							29.7	32.4	33.8	34.6	35.1	34.8	33.9	31.0	44
48									27.7	29.1	30.0	30.3	30.1	27.7	48
52										23.6	25.3	26.1	26.0	24.9	52
56												21.8	22.8	22.2	56
60													19.0	19.6	60
64														16.2	64

Unit: t

Load chart-LJ

Load chart-LJ (Boom angle 85°, Jib 21~60m, Rear counterweight 140t, Carbody counterweight 40t) 3/3															
Boom 60m															
Radius(m)	21	24	27	30	33	36	39	42	45	48	51	54	57	60	Radius(m)
14	109														14
16	107	105	103	96.2											16
18	95.6	94.9	93.7	92.1	87.7	80.3									18
20	84.8	84.9	84.7	83.7	82.7	78.8	72.2	66.0	60.2						20
22	76.6	76.2	76.3	76.3	75.8	74.6	71.0	65.1	59.5	54.2	49.3	44.9			22
24	69.7	69.7	69.3	69.0	68.8	68.6	68.1	64.0	58.7	53.6	48.7	44.4	40.4	36.7	24
26	63.9	63.7	63.2	63.4	62.9	62.9	62.6	62.2	57.8	52.8	48.1	43.9	40.0	36.4	26
28		58.6	58.5	58.5	58.1	57.6	57.6	57.4	56.8	52.1	47.5	43.4	39.5	36.0	28
30		54.8	54.0	53.8	53.9	53.4	53.4	52.9	52.8	51.3	46.8	42.8	39.0	35.5	30
32			50.4	50.3	50.2	49.6	49.3	49.2	49.2	48.8	46.1	42.2	38.5	35.0	32
34				47.2	46.8	46.4	46.3	45.9	45.9	45.6	45.2	41.6	37.9	34.6	34
36				43.5	43.9	43.7	43.5	43.0	42.6	42.6	42.3	41.0	37.4	34.1	36
38					40.4	41.1	40.8	40.5	40.1	39.8	39.5	39.3	36.9	33.6	38
40						38.3	38.5	38.1	37.9	37.5	37.4	37.0	36.4	33.1	40
44							32.4	34.1	34.0	33.7	33.4	32.9	32.9	32.2	44
48								27.2	29.5	30.3	30.1	29.7	29.3	29.8	48
52										25.3	26.7	26.9	26.7	26.3	52
56											21.9	23.1	23.5	23.3	56
60													20.2	20.5	60
64														17.5	64

Load chart -FJh



Unit: t

Load chart -FJh

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 rated capacity.
2. Rated capacity in the load chart is calculated when the crane is on firm and level ground, and the load lifting is slowly and steadily.

Load chart -FJh (Boom 24m, Jib 9m, Boom to jib angle 20°, Rear counterweight 140t, Carbody counterweight 40t)			
Radius(m)	Main hook with load(Aux. hook without load)	Aux. hook with load(Main hook without load)	Radius(m)
6	350		6
7	325		7
8	285		8
9	253	125	9
10	228	125	10
11	205	125	11
12	185	123	12
14	139	121	14
16	113	119	16
18	94.5	105	18
20	80.3	90.6	20
22	69.1	79.2	22
24		70.1	24
26		62.5	26
28		56.2	28
30		50.8	30
32		46	32
34		41.7	34



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Consulting sanycrane@sanygroup.com (Crane BU) / crd@sany.com.cn (IHQ)
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