SANY®

SCC3200T

SANY CRAWLER CRANE



www.sanygroup.com

QUALITY CHANGES THE WORLD

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.

V1.0

01
04 / INTRODUCE

02
06 / OUTLINE DIMENSION

03
07 / MAJOR PERFORMANCE SPECIFICATIONS

04
08 / TRANSPORT DIMENSION

05
10 / TRANSPORT PLAN

06
12 / SELF-ASSEMBLY PLAN

07
15 / MAIN CHARACTERISTICS
Product Specification
Safety Device

08
18 / CONFIGURATIONS
H configuration
HJ configuration
LJ configuration
FJ configuration

09
34 / TRANSPORTATION OF THREE-TIERED BOOM SET

01 | Introduce



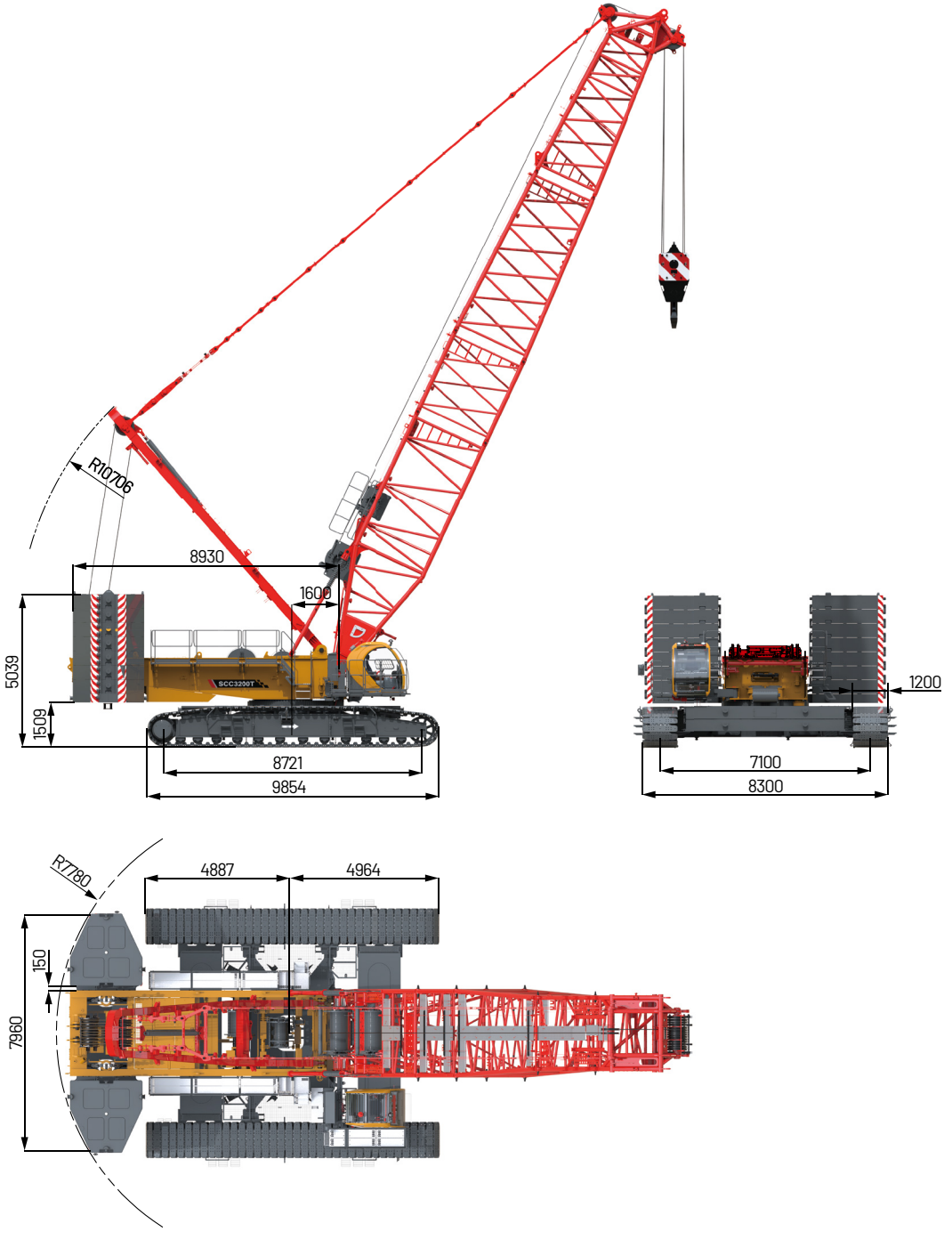
SCC3200T
SANY CRAWLER CRANE



02 Outline Dimension

Overall length	Overall width	Overall height
13600mm	8300mm	5040mm

Max. transportation dimensions (L × W × H)	12150mm × 3000mm × 3180mm
Min. slewing radius	7780mm
Center distance between the main and driven wheels	8720mm
Track pad width	1200mm

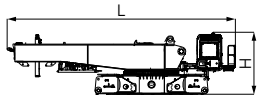
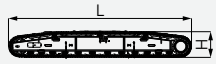
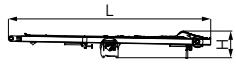
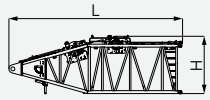
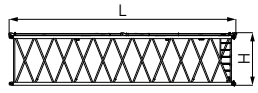
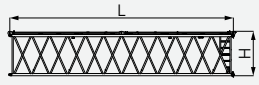
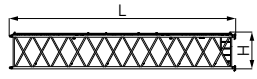
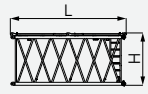
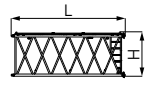
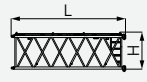
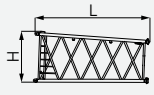
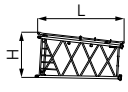


03 | Major Performance Specifications

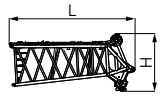
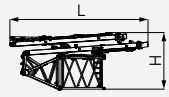
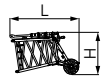
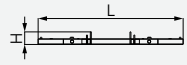
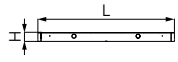
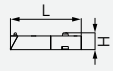
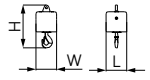
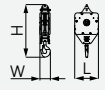
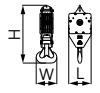
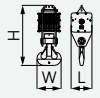
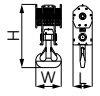
Performance Indicators	Unit	Parameter
Performance		
Max. rated lifting capacity	t	320
Max. rated lifting moment	t·m	2000
Boom length	m	87
Boom luffing angle	°	20~85
Max. luffing jib configuration	m	60+70
Luffing jib configuration boom angle	°	65~85
Operation		
Max. speed of single rope of the main winch (outermost working layer)	m/min	130
Max. speed of single rope of the main luffing (outermost working layer)	m/min	130
Slewing speed (empty load)	r/min	1.0
Power		
Engine model	-	Cummins (Europe Stage V)
Engine maximum power	kW/rpm	298/2100
Engine maximum output torque	N·m/rpm	2169/1400
Travel		
Travel speed	km/h	0~1
Gradeability (with basic boom, the driver's cab is on the right side of the crane)	%	30
Weight		
Gross weight (Basic boom, 128t rear counterweight, 40t carbody counterweight, 200t hook)	t	290
Max. Transportation weight of single part	t	42
Rear counterweight (with tray)	t	128
Carbody counterweight	t	40
Average ground pressure (Basic boom, 128t rear counterweight, 40t carbody counterweight, 200t hook)	MPa	0.156

Note: Any change in the technical parameters and configuration due to advancement in technology may occur without prior notice.

04 | Transport Dimension

No.	Parts	Shape	Length (m)	Width (m)	Height (m)	Weight(t)	QTY.
1	Basic machine		12.15	3.00	3.28	42.0	1
2	Crawler assembly		9.97	1.91	1.38	24.0	2
3	Boom hoisting mast		10.85	2.50	1.50	9.2	1
4	Boom base (with main/ aux. hoist winch)		9.30	2.96	3.13	16	1
5	12m Boom insert (2825)		12.17	2.96	2.81	3.9	2
6	12m Boom insert (2421)		12.13	2.50	2.38	2.6	2
7	12m Boom insert (2017)		12.13	2.13	1.98	2.2	2
8	6m Boom insert (2825)		6.17	2.96	2.81	2.2	1
9	6m Boom insert (2421)		6.14	2.50	2.38	1.8	1
10	6m Boom insert (2017)		6.14	2.13	1.98	1.24	1
11	3m Boom insert (2825)		3.17	2.96	2.81	1.4	1
12	3m Boom insert (2421)		3.13	2.50	2.38	1.1	1
13	3m Boom insert(2017)		3.13	2.16	1.80	0.8	1
14	6m tapered boom insert		6.14	2.96	2.81	2.4	1
15	4.5m tapered boom insert		4.62	2.50	2.79	1.7	1

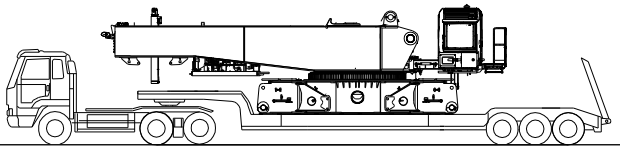
04 | Transport Dimension

No.	Parts	Shape	Length (m)	Width (m)	Height (m)	Weight(t)	QTY.
16	Boom top		6.78	2.61	3.19	6.4	1
17	Luffing jib base		9.47	2.57	3.88	7.9	1
18	Luffing jib top		3.61	2.22	1.98	3.0	1
19	Rear counterweight tray		8.14	2.59	0.68	16.0	1
20	Carbody counterweight		5.64	1.60	0.42	10.0	4
21	8t counterweight block		2.40	2.40	0.57	8.0	14
22	16t Hook		1.10	0.53	0.53	0.92	1
23	50t Hook		2.11	1.00	0.58	1.57	1
24	100t Hook		2.17	1.00	0.74	1.89	1
25	200t Hook		2.47	1.00	0.88	3.92	1
26	350t Hook		3.30	1.00	1.34	6.63	1

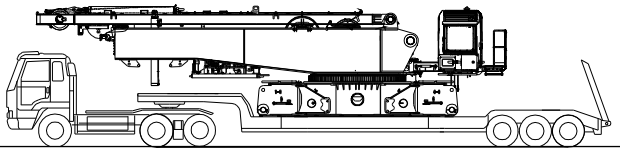
Note:
1. The transport dimensions of each part in the table are schematic, not proportional to the real parts. The dimensions are designed value without package considered.
2. Weight is designed value that the actual manufactured part may deviate a little.
3. The dimensions and weight of each part may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

05 | Transport Plan

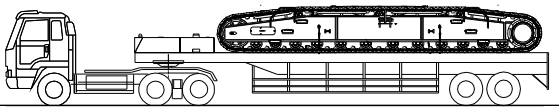
Quantity	▪ 1 (Transportation plan one)
Part (s)	▪ Body × 1
Weight	▪ 42.0t



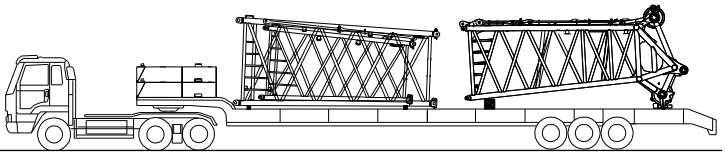
Quantity	▪ 1 (Transportation plan two)
Part (s)	▪ Body × 1 ▪ Mast luffing boom × 1
Weight	▪ 51.2t



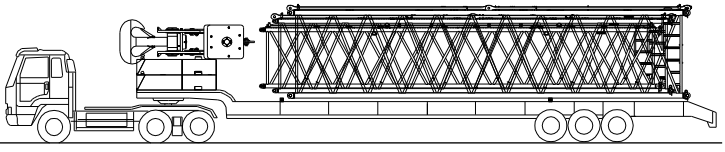
Quantity	▪ 2
Part (s)	▪ Crawler frame × 1 ▪ Rear counterweight × 1
Weight	▪ 31.98t



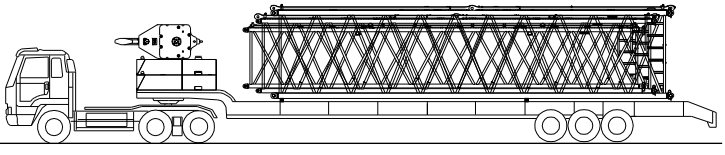
Quantity	▪ 1
Part (s)	▪ Rear counterweight × 2 ▪ Top boom × 1 ▪ Insert transition boom × 1
Weight	▪ 26.25t



Quantity	▪ 1
Part (s)	▪ Rear counterweight × 2 ▪ Intermediate boom 12m(2825) × 1/12m(2421) × 1/ 12m(2017) × 1 ▪ 350t hook × 1
Weight	▪ 31.33t

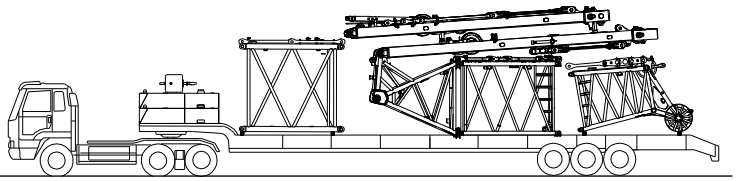


Quantity	▪ 1
Part (s)	▪ Rear counterweight × 2 ▪ Intermediate boom 12m(2825) × 1/12m(2421) × 1/ 12m(2017) × 1 ▪ 100t hook × 1
Weight	▪ 26.59t

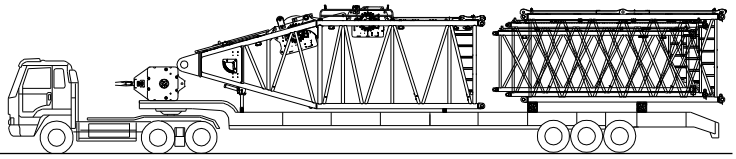


05 | Transport Plan

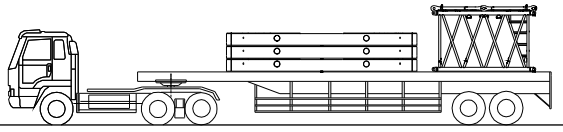
Quantity	▪ 1
Part (s)	▪ Rear counterweight × 2 ▪ Base jib luffing × 1 ▪ Top jib luffing × 1 ▪ Intermediate boom 3m(2825) × 1/ 3m(2421) × 1 ▪ 16t hook × 1
Weight	▪ 27.95t



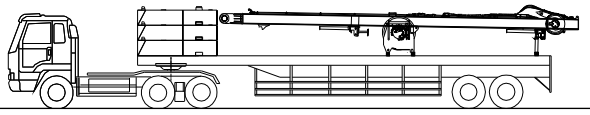
Quantity	▪ 1
Part (s)	▪ Rear counterweight × 2 ▪ Base boom × 1 ▪ Intermediate boom 6m(2825) × 1/ 6m(2421) × 1/6m(2017) × 1 ▪ 50t hook × 1
Weight	▪ 30.62t



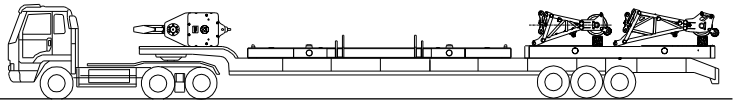
Quantity	▪ 1
Part (s)	▪ Central counterweight × 3 ▪ Intermediate boom 3m(2017) × 1
Weight	▪ 31.1t



Quantity	▪ 1
Part (s)	▪ Mast luffing boom × 1 ▪ Rear counterweight × 3
Weight	▪ 33.2t

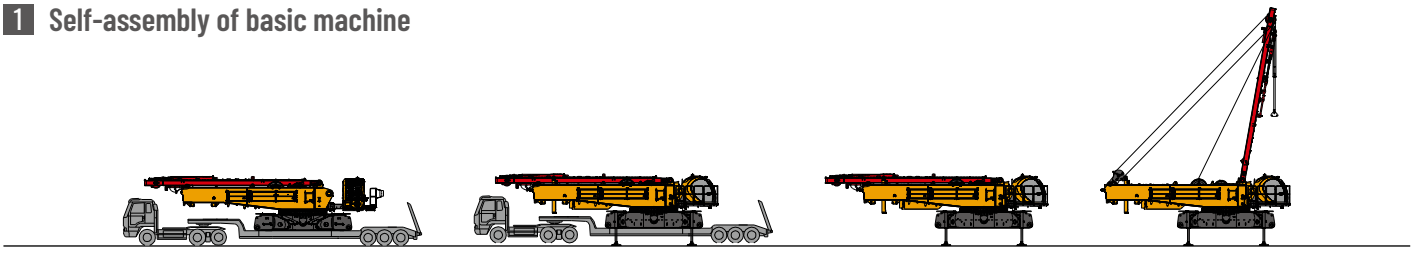


Quantity	▪ 1
Part (s)	▪ Central counterweight × 1 ▪ Rear counterweight body × 1 ▪ Extension boom × 1 ▪ Extension boom for LJ × 1 ▪ 200t hook × 1
Weight	▪ 30.81t

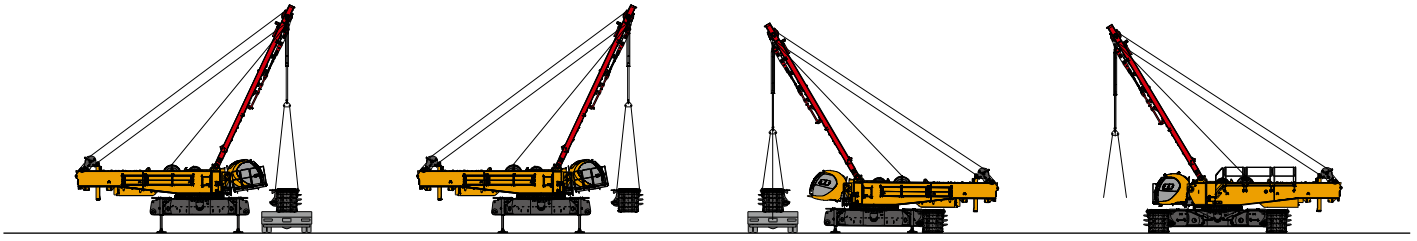


06 | Self-assembly Plan

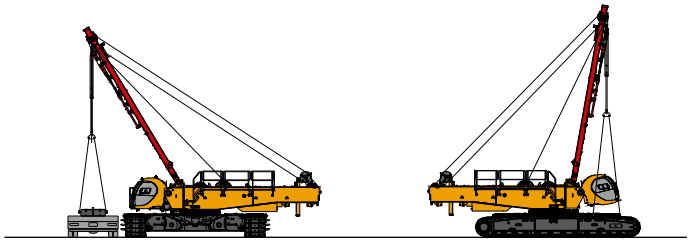
1 Self-assembly of basic machine



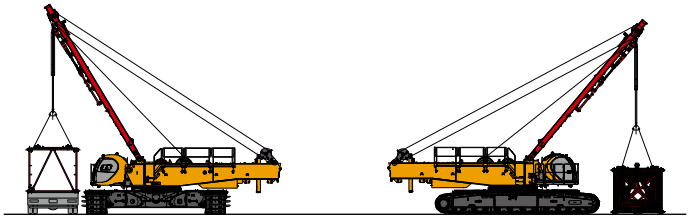
2 Self-assembly of track frame



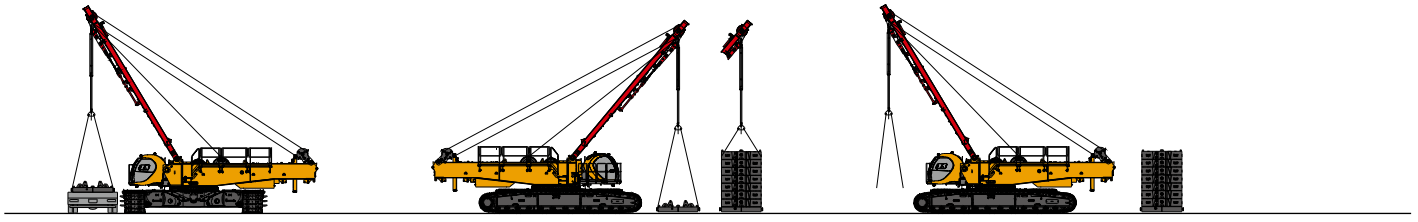
3 Self-assembly of carbody counterweight



4 Self-assembly of boom/jib

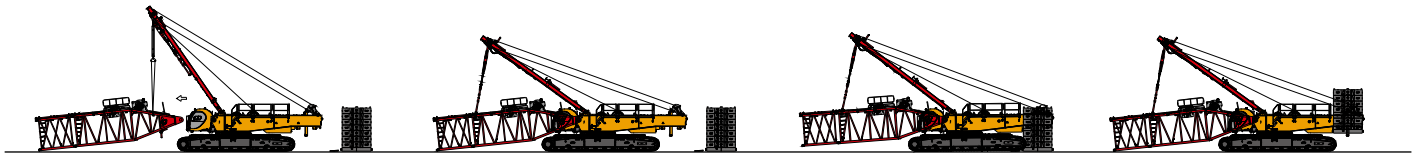


5 Self-assembly of rear counterweight



06 | Self-assembly Plan

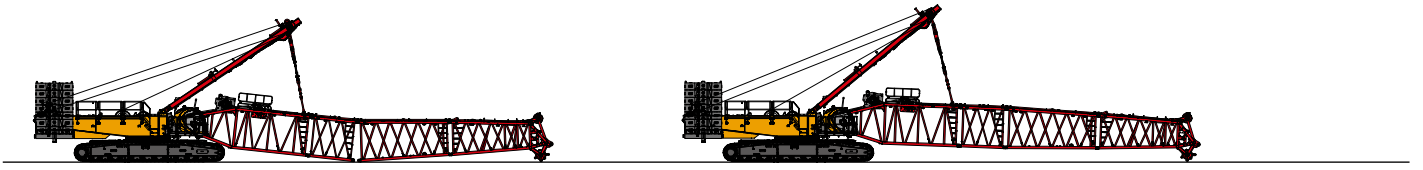
6 Self-assembly of boom base



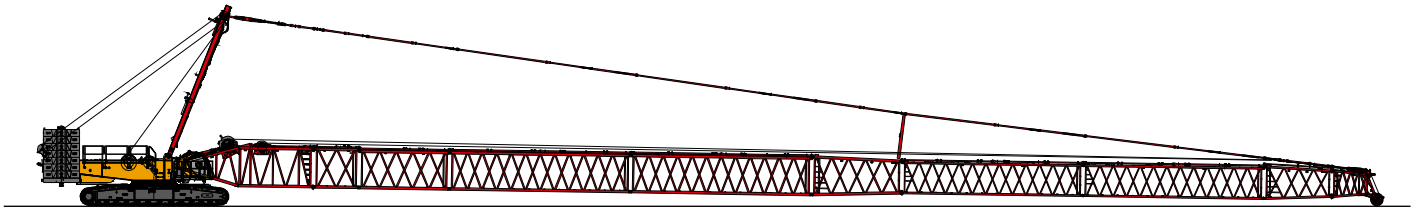
Self-assembly of boom base and 3m boom insert

The force of single side pendant bar >5t, for lifting rear counterweight

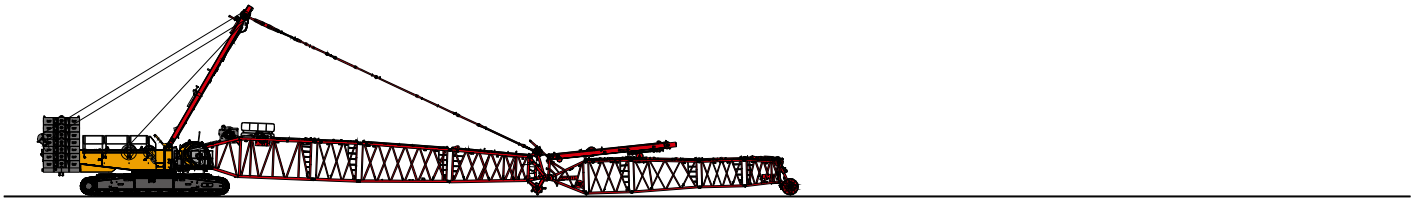
7 Boom assembly

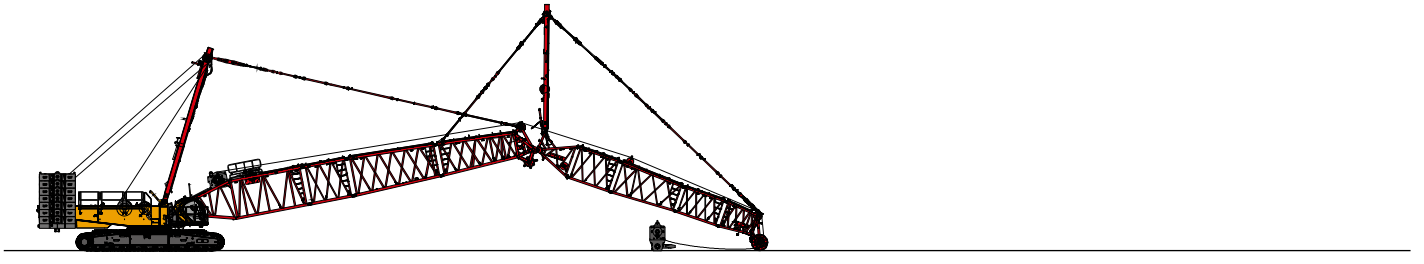


8 Assembly of HJ configuration



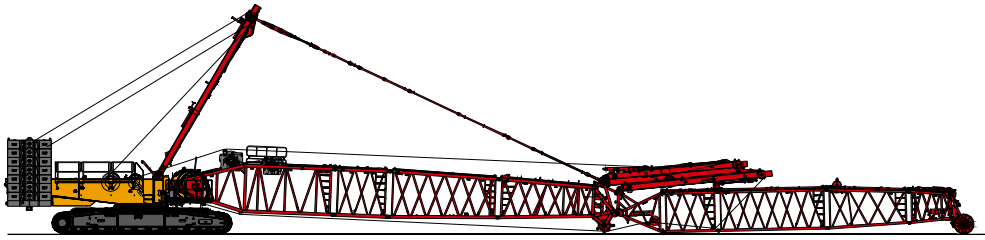
9 Assembly of FJ configuration

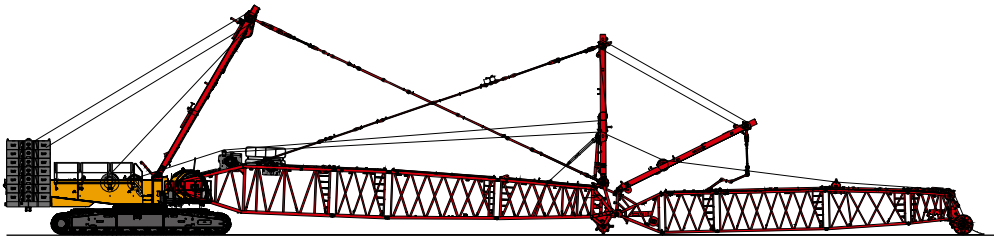


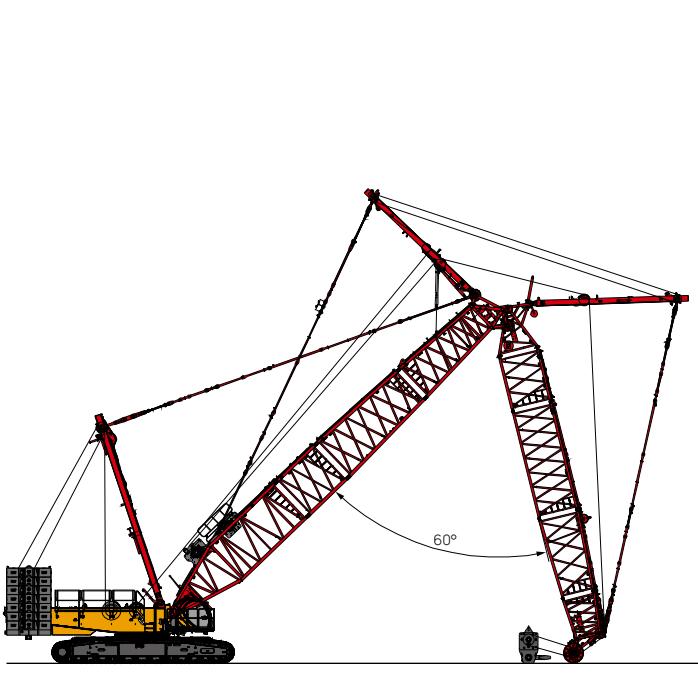


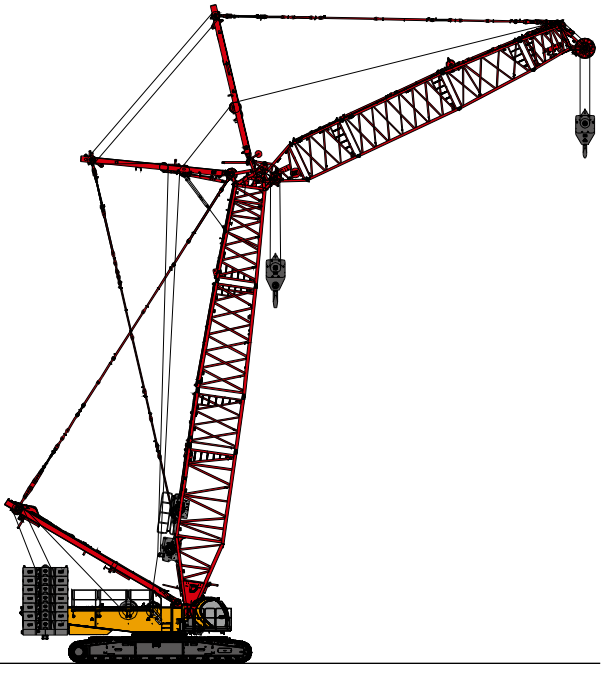
06 | Self-assembly Plan

10 Assembly of LJ configuration









07 | Main Characteristics

1 Product Specification

Engine

- Cummins (Europe Stage V).
- Rated power: 298kW.
- Rated speed: 2100rpm.
- Max. output torque: 2169N·m.
- Speed at maximum output torque: 1,400rpm.

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: the main system is open circuit and load-sensitive system, which can realize flow distribution irrelevant from load. The hydraulic proportional pilot control is used for agile operation and excellent inching performance. System pressure is 32MPa.
- Electrically-controlled proportional control components are adopted for the servo system to realize precise and intelligent control.
- The cooling hydraulic system consists with large independent power radiator and three-in-one radiator, featured with large heat exchange power and good cooling effect.

Car-body

- 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.

Crawler Assembly

- Track frame: each track frame is equipped with an independent travel driving device. A hydraulic travel motor drives the planetary gear reducer and realizes independent traveling through the transmission of driving wheel. The travel system is configured with four speed options to meet various requirements: 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.

Counterweight

- Include Carbody Counterweight, Rear Counterweight

Name	Quantity	Length (m)	Width (m)	Height (m)	Unit weight (t)
Carbody counterweight	4	5.64	1.6	0.42	10
Rear counterweight tray	1	8.16	2.59	0.68	16
Rear counterweight	14	2.4	2.4	0.57	8

Hoisting Mechanism

- The main and aux. winch mechanism are driven independently, which is featured in compact structure, easy assembly. The hardly-worn and maintenance-free embedded wet brake ensures the winch safety.
- The hydraulic motor with variable displacement can match the load with automatic adjustment of displacement to achieve highest winch speed.
- Quality anti-twisting wire rope is selected to ensure the safety of load lifting and longer service life.
- Wire rope lug is adopted for easier and convenient rope assembly and disassembly.

Main Hoisting Mechanism	Rope speed on the outermost work layer	0~130m/min
	Wire rope diameter	ϕ26mm
	Wire rope length for main hoisting winch	800m
	Rated single line pull	15t
Auxiliary Hoisting Mechanism	Rope speed on the outermost work layer	0~110m/min
	Wire rope diameter	ϕ26mm
	Wire rope length for aux. hoisting winch	390m
	Rated single line pull	14.8t

Luffing Winch Mechanism

- Including: luffing mechanisms of the boom and jib.
- 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	Wire rope diameter	ϕ26mm
	Wire rope length of boom luffing winch	355m
Jib Luffing Mechanism	Wire rope diameter	ϕ20mm
	Wire rope length of jib luffing winch	385m

Slewing Mechanism

- Large motor is adopted for the slewing hydraulic system to drive through a planetary gear reducer and enables 360° rotation. The slewing speed is 0~1.0rpm, which can realize infinitely variable speed. The slewing, free of starting and stopping impact, operates steadily and is equipped with neutral free slipping function. When the control handle is in neutral position and no slewing speed is pick up, slewing mechanism is locked to prevent backlash during crane walking or transport. Slewing bearing device: three-row roller external gear slewing bearing is adopted.

07 | Main Characteristics

2 Safety equipment

Load Moment Indicator

- The proprietary load moment indicator is independently-developed by SANY, with performance structural parameters of all series of crawler cranes directly stored inside, such as bearing curve, boom and jib weight, center of gravity, and other geometrical parameters. Moment calculation adopts the targeted optimization model and combines SANY technology accumulated in crawler crane industry for many years. Having the customized advantage, this system maximizes the utilization efficiency of the crane while guaranteeing the lifting safety so as to avoid the technology disconnection and different after-sales service due to the separation between the crane and LMI, thus improving the overall quality of the crane.
- As independent safety control system fully controlled by computer, the LMI can automatically detect the load weight, work radius, and boom angle, compare rated capacity with actual load, actual radius and actual boom angle. In normal operation, the LMI can intelligently determine and cut off the crane from the dangerous direction. It also has black box function and record overload information.
- LMI consists of large colorful display, main machine, angle sensor, load sensor and pressure sensor.

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 Switch

- In assembly mode, some of the safety devices are ineffective for helping crane assembly, for example, jib lower limit, LMI boom angle limit and overload.
- In work mode, all safety devices can work.

Crane Boom/Jib Limit Device

- When the elevation angle of the boom exceeds 85° (LJ configuration) jib angle exceeds 73°, 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 20° 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.

Hoisting Mechanism Brake

- 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.

Hook Latch

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

Closed Circuit Monitoring System (zoom camera)

- High-definition camera on boom tip, on each winch, at the rear of rotating bed and display consist the CCTV monitoring system. Real-time monitoring of each winch mechanism wire rope reeving and circumstances around the equipment is provided to make sure the operator can understand clearly and make sure the load safety. The camera can zoom in/out as needed.
- Components of the camera: wireless remote transmitter, wireless remote receiver, zoom camera.
- The video recorder can store the monitoring video for as long as 76hs.
- Crane operation can be stored.

07 | Main Characteristics

2 Safety equipment

Fault Auto-Diagnosis System

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

Black Box

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

Pharos

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

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.

Swing and Traveling Alarm

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

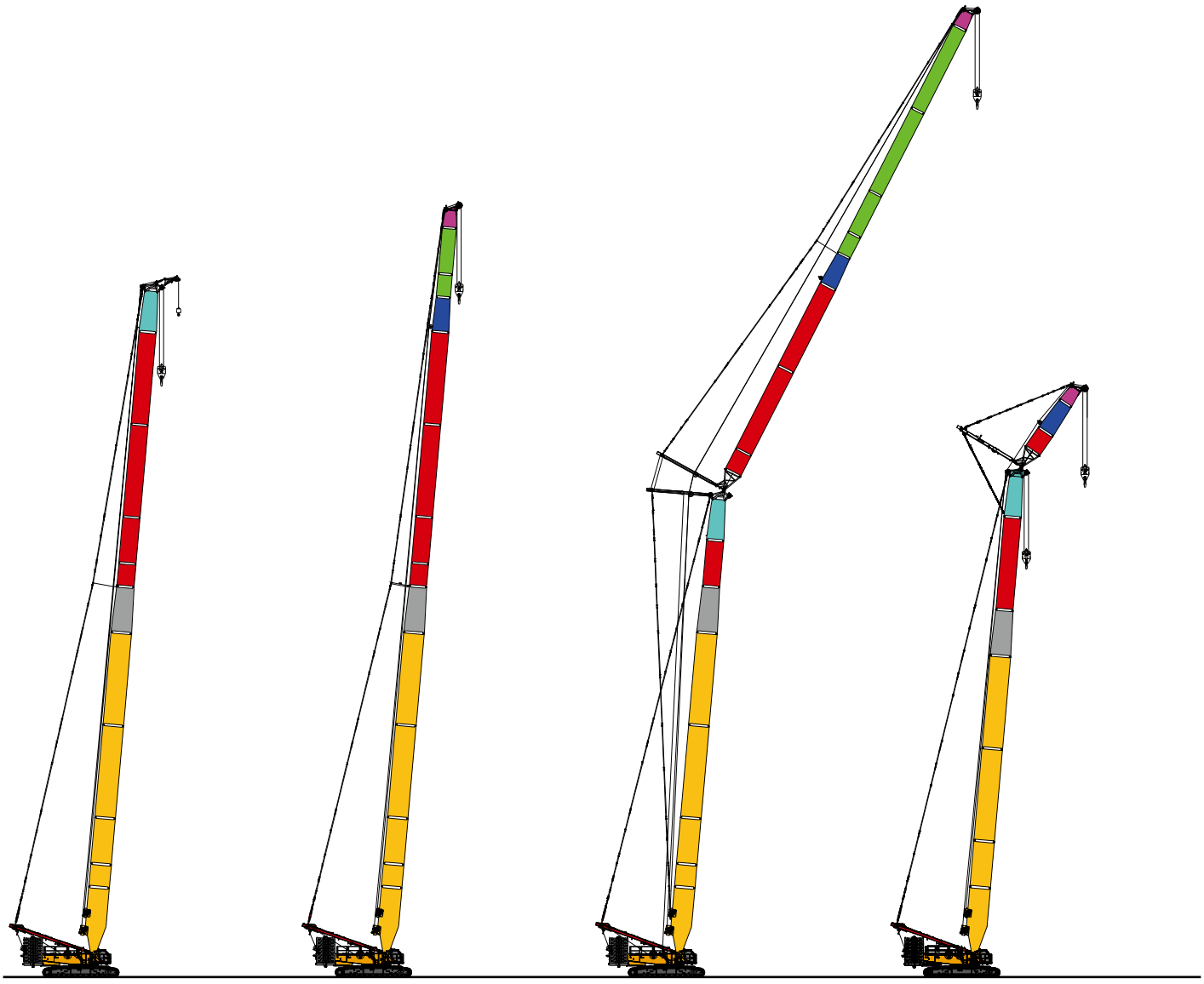
Function Lock

- 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.

Proactive Safety Control Technology

- Reduce the slewing speed automaticlly based on boom length and make it safer.
- Flexible safety protection: reduce the action speed when approaching safety limit, making it stable and reliable.
- Real-time monitor of hydraulic oil temperature. Limit the activity according to hydraulic temperature and protect the hydraulic components effectively.
- In man-machine interface, this protection can be set valid or invalid, and provide more human-friendly design.

08 | Combination



H
(24m~87m)

HJ
(58.5m~97.5m)

LJ
(60m+70m)

FJ
(63m+13m)

Configuration	Boom Combination	Boom Length
H	Main Boom	24m~87m
HJ	Mixed Boom	58.5m~97.5m
LJ	Boom + Luffing Jib	60m+70m
FJ	Boom + Fied Jib	63m+13m/45m+37m

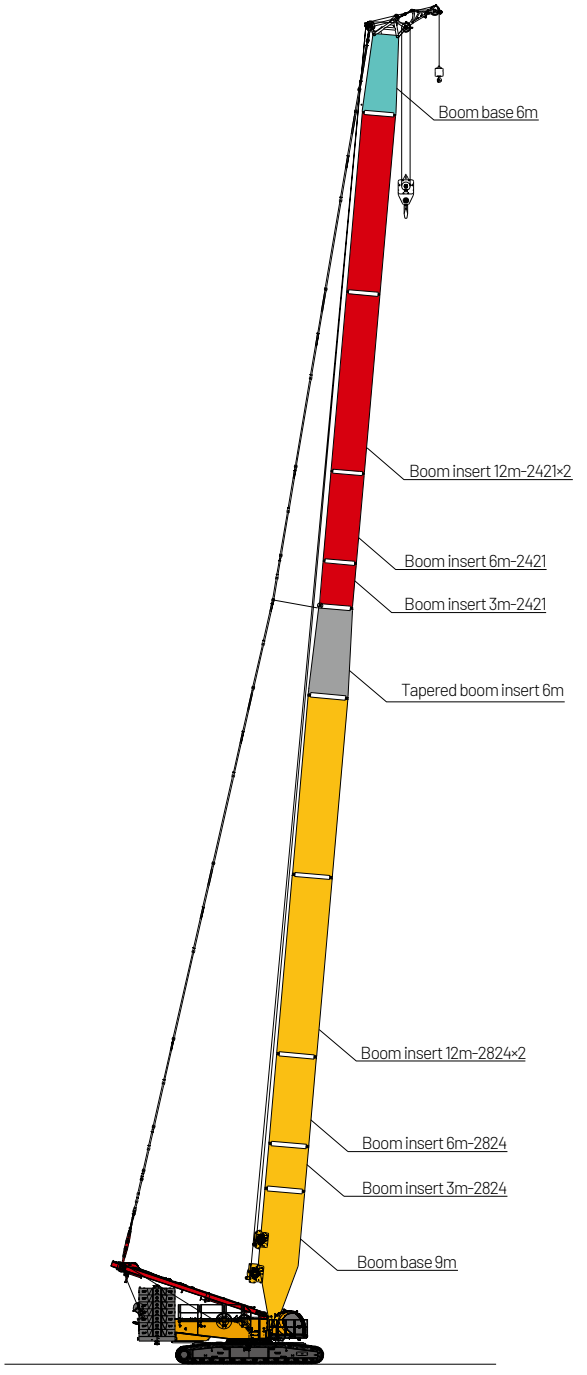
Note:
1. The boom is common in different configuration.
2. The schematics above are reference for loading only.

08 Boom Combination

H configuration

Boom length (m)	Inserts					
	3m(2825)	6m(2825)	12m(2825)	3m(2421)	6m(2421)	12m(2421)
24	1	-	-	-	-	-
27	-	1	-	-	-	-
30	1	1	-	-	-	-
33	-	-	1	-	-	-
36	1	-	1	-	-	-
39	-	1	1	-	-	-
42	1	1	1	-	-	-
45	-	-	2	-	-	-
48	1	-	2	-	-	-
51	-	1	2	-	-	-
54	1	1	2	-	-	-
57	1	1	2	1	-	-
60	1	1	2	-	1	-
63	1	1	2	1	1	-
66	1	1	2	-	-	1
69	1	1	2	1	-	1
72	1	1	2	-	1	1
75	1	1	2	1	1	1
78	1	1	2	-	-	2
81	1	1	2	1	-	2
84	1	1	2	-	1	2
87	1	1	2	1	1	2

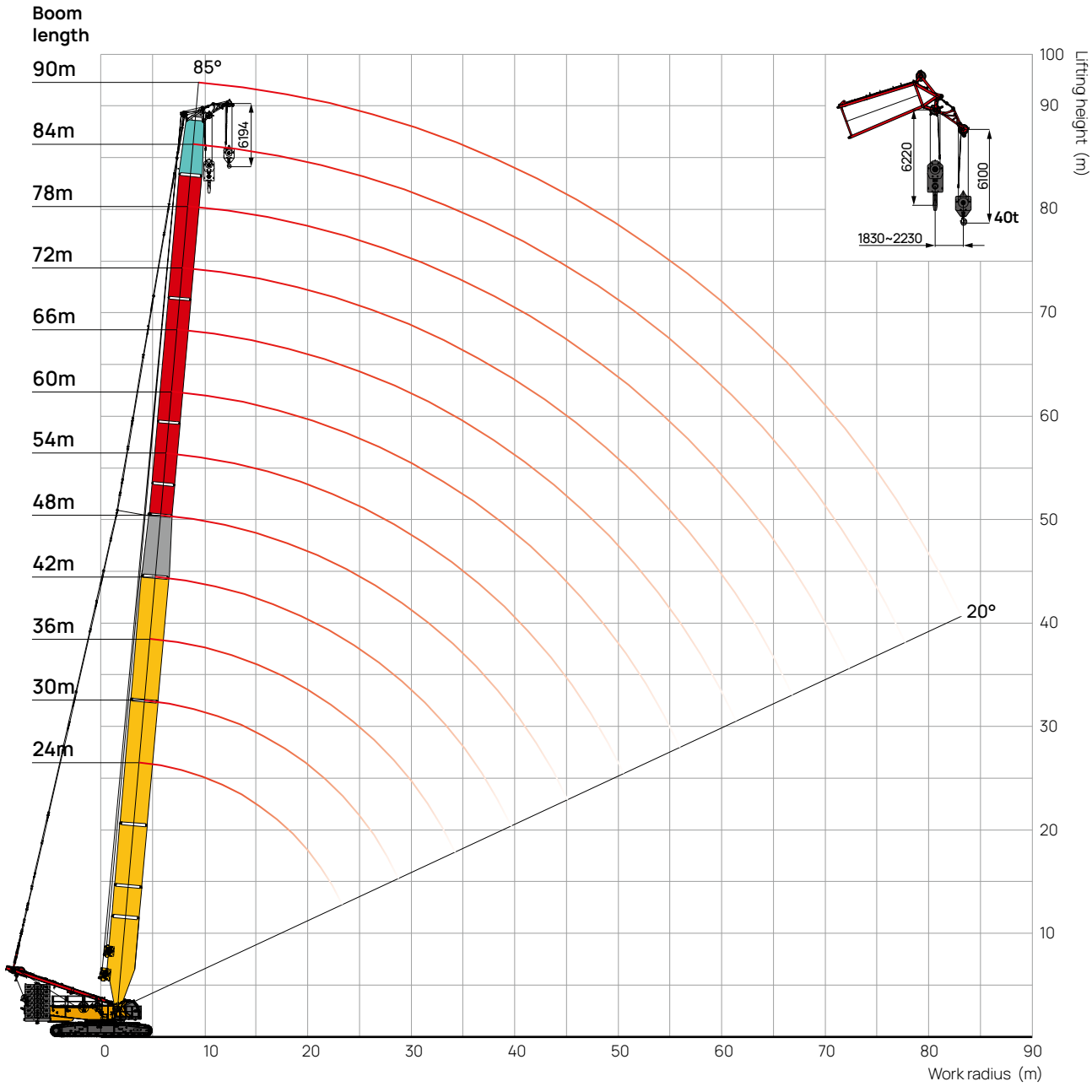
Note: 24m basic boom consists of 9m boom base, 6m transition section and 6m boom top.



H
(24m~87m)

08 Working Radius-H

H configuration



08 Load Chart

H configuration

Unit: t

m	Boom length 24~87m, Rear counterweight 128t, Carbody counterweight 40t																						m
	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	75	78	81	84	87	
5	320																						5
5.5	320	320	309																				5.5
6	311	309	307	287																			6
7	286	262	260	259	257	253	221	210															7
8	228	227	238	237	236	234	221	210	198	186	174	162											8
9	200	211	210	209	208	207	205	201	196	186	174	162	162	149	137	134							9
10	189	188	187	186	185	184	183	179	175	170	166	162	159	149	137	134	124	121	99.9	96.2			10
11	170	169	169	168	167	166	165	161	157	154	150	147	144	141	137	135	124	120	98.6	95	90.1	86.4	11
12	155	154	153	153	152	151	149	146	143	140	137	134	131	129	127	124	122	119	96.6	93.7	88.9	84.7	12
14	130	130	129	129	128	127	125	122	120	118	115	113	111	109	108	106	104	102	94.2	91.2	85.9	81.9	14
16	110	111	111	111	110	109	107	105	103	101	99.6	97.8	96.3	94.6	93.7	92	90.6	88.9	88	86.5	83	79.1	16
18	93.6	93.8	93.7	93.9	93.7	93.6	93.3	91.9	90.2	88.7	87.1	85.6	84.3	82.8	82.2	80.8	79.6	78.2	77.5	76.2	75	73.7	18
20	80.4	80.7	80.6	80.8	80.6	80.5	80.2	80.2	79.7	78.4	77	75.7	74.6	73.3	72.9	71.7	70.6	69.4	68.9	67.8	66.8	65.6	20
22	70.1	70.4	70.3	70.5	70.3	70.2	69.9	69.9	69.6	69.4	68.7	67.6	66.7	65.5	65.2	64.1	63.2	62.1	61.8	60.7	59.8	58.8	22
24	61.7	62.1	62.1	62.3	62.1	62	61.7	61.6	61.3	61.1	60.8	60.5	60	58.9	58.8	57.8	57	56	55.7	54.8	54	53	24
26		55.2	55.2	55.5	55.3	55.2	54.9	54.9	54.5	54.3	54	53.7	53.6	53.3	53.3	52.3	51.6	50.7	50.5	49.6	48.9	48.1	26
28			49.5	49.8	49.6	49.5	49.2	49.2	48.9	48.6	48.3	48	47.9	47.6	48.1	47.7	47	46.2	46	45.2	44.6	43.7	28
30			44.5	44.9	44.8	44.7	44.4	44.4	44	43.8	43.4	43.2	43.1	42.8	43.3	43	42.8	42.2	42.1	41.3	40.7	39.9	30
32				40.7	40.6	40.5	40.2	40.2	39.9	39.6	39.3	39	38.9	38.6	39.1	38.8	38.7	38.3	38.6	37.9	37.3	36.6	32
34					36.9	36.9	36.6	36.6	36.3	36	35.7	35.4	35.3	35	35.5	35.2	35	34.7	35.1	34.7	34.3	33.6	34
36						33.7	33.4	33.4	33.1	32.9	32.5	32.2	32.2	31.8	32.3	32	31.9	31.5	31.9	31.5	31.4	30.9	36
38						30.8	30.6	30.6	30.3	30.1	29.7	29.4	29.4	29	29.5	29.2	29.1	28.7	29.1	28.7	28.6	28.2	38
42								25.8	25.5	25.3	25	24.7	24.6	24.3	24.3	24.5	24.3	24	24.3	24	23.8	23.4	42
46									21.6	21.4	21.1	20.8	20.8	20.4	19.8	20.6	20.5	20.1	20.5	20.1	19.9	19.6	46
50											17.8	17.6	17.5	17.2	15.9	17.4	17.1	16.9	17.3	16.9	16.7	16.4	50
54												14.8	14.8	14.5	12.7	14.5	13.6	14.2	14.6	14.2	14.1	13.7	54
58													12.4	12.2	11.4	11.7	10.5	11.9	12.3	11.9	11.7	11.4	58
62															10.7	10.3	7.8	9.9	10.3	9.9	9.7	9.4	62
66																8.6	6.6	8.1	8.5	8.2	8	7.6	66
70																		6.6	7	6.6	6.5	6.1	70
74																			5.6	5.2	5.1	4.7	74
78																				3.9	3.8	3.5	78
82																						2.3	82

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.

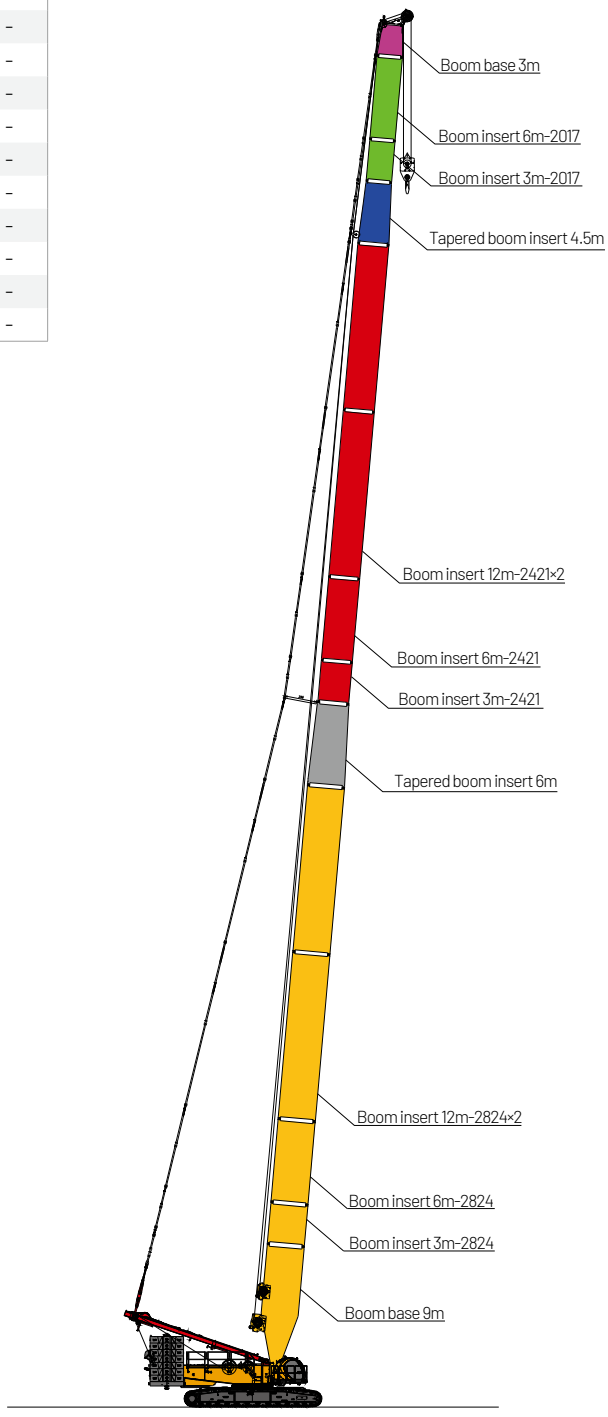
3.The dimensions and weight of each part may change due to product upgrading. The final values are subject to the new product.

Rear counterweight 112t

08 Boom Combination

HJ configuration

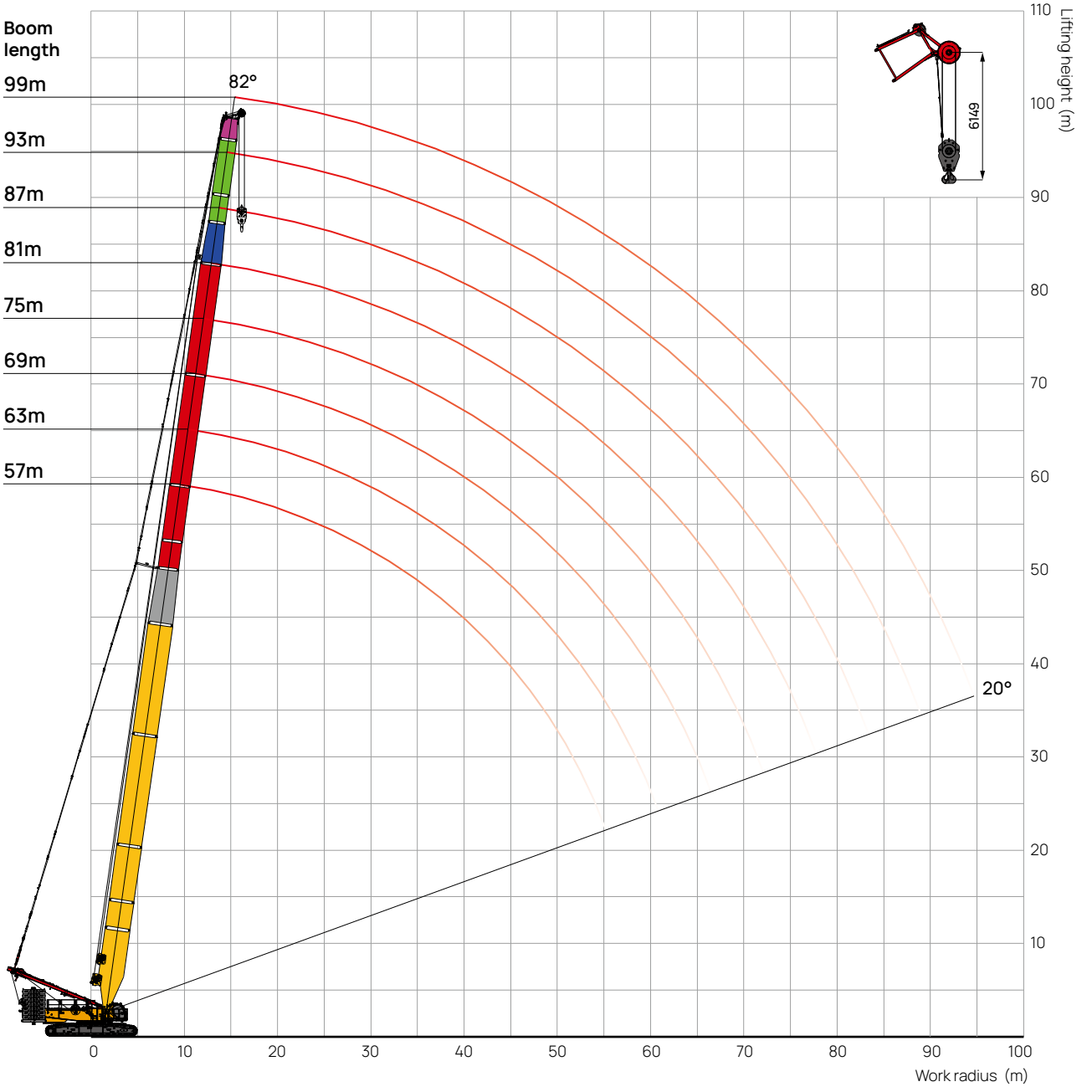
Boom length (m)	Inserts								
	3m (2825)	6m (2825)	12m (2825)	3m (2421)	6m (2421)	12m (2421)	3m (2017)	6m (2017)	12m (2017)
58.5	1	1	2	1	-	-	-	-	-
61.5	1	1	2	-	1	-	-	-	-
64.5	1	1	2	1	1	-	-	-	-
67.5	1	1	2	-	-	1	-	-	-
70.5	1	1	2	1	-	1	-	-	-
73.5	1	1	2	-	1	1	-	-	-
76.5	1	1	2	1	1	1	-	-	-
79.5	1	1	2	-	-	2	-	-	-
82.5	1	1	2	1	-	2	-	-	-
85.5	1	1	2	-	1	2	-	-	-
88.5	1	1	2	1	1	2	-	-	-
91.5	1	1	2	1	1	2	1	-	-
94.5	1	1	2	1	1	2	-	1	-
97.5	1	1	2	1	1	2	1	1	-



HJ
(58.5m~97.5m)

08 Working Radius

HJ configuration



08 Load Chart

HJ configuration

Unit: t

m	Boom length 58.5~97.5m, Rear counterweight128t, Carbody counterweight 40t														m
	58.5	61.5	64.5	67.5	70.5	73.5	76.5	79.5	82.5	85.5	88.5	91.5	94.5	97.5	
11	145														11
12	135	132	129	128											12
14	114	112	110	109	107	105	103	92.8							14
16	99.3	97.8	96	95.1	93.5	92	90.4	89.5	87.6	82.3	78.2	72.1	67.5		16
18	87.2	85.9	84.4	83.8	82.4	81.2	79.8	79.2	77.8	76.7	75.2	69.1	64.2	52.8	18
20	77.4	76.3	75.1	74.6	73.4	72.4	71.2	70.7	69.5	68.5	67.3	66.4	61.4	50.2	20
22	69.4	68.5	67.3	67	65.9	65	64	63.6	62.5	61.7	60.6	59.7	59	47.6	22
24	62.5	61.8	60.8	60.6	59.6	58.8	57.9	57.6	56.6	55.8	54.9	54.1	53.5	45.1	24
26	55.7	55.7	55.3	55.2	54.3	53.5	52.6	52.4	51.6	50.9	50	49.2	48.7	43	26
28	50.1	50	49.7	50.1	49.6	49	48.1	48	47.2	46.5	45.7	45	44.5	41	28
30	45.2	45.2	44.8	45.3	45	44.9	44.2	44.1	43.3	42.7	41.9	41.3	40.9	39.1	30
32	41.1	41	40.7	41.2	40.8	40.7	40.4	40.7	39.9	39.3	38.6	38	37.6	37	32
34	37.5	37.4	37.1	37.5	37.2	37.1	36.7	37.1	36.7	36.3	35.6	35.1	34.7	34.1	34
36	34.3	34.2	33.9	34.4	34	33.9	33.6	33.9	33.6	33.4	33	32.4	32.1	31.6	36
38	31.5	31.4	31.1	31.6	31.2	31.1	30.8	31.1	30.7	30.6	30.2	30	29.8	29.2	38
40	29	28.9	28.6	29.1	28.8	28.6	28.3	28.6	28.2	28.1	27.7	27.5	27.5	27.1	40
42	26.8	26.7	26.4	26.9	26.5	26.4	26	26.4	26	25.8	25.5	25.2	25.2	25	42
44	24.8	24.7	24.4	24.8	24.5	24.4	24	24.3	24	23.8	23.4	23.2	23.2	22.9	44
46	22.9	22.9	22.5	23	22.7	22.5	22.2	22.5	22.2	22	21.6	21.4	21.3	21.1	46
48	21.3	21.2	20.9	21.4	21	20.9	20.5	20.9	20.5	20.3	19.9	19.7	19.7	19.4	48
50	19.7	19.7	19.3	19.8	19.5	19.3	19	19.3	19	18.8	18.4	18.2	18.2	17.9	50
52	18.3	18.3	17.9	18.4	18.1	17.9	17.6	17.9	17.6	17.4	17	16.8	16.7	16.5	52
54	17	16.9	16.6	17.1	16.8	16.7	16.3	16.6	16.3	16.1	15.7	15.5	15.5	15.2	54
56	15.7	15.7	15.4	15.9	15.6	15.5	15.1	15.5	15.1	14.9	14.5	14.3	14.3	14	56
58		14.6	14.3	14.8	14.5	14.3	13.9	14.3	14	13.8	13.4	13.2	13.2	12.9	58
60			13.2	13.4	13.4	13.3	12.4	13.3	13	12.8	12.4	12.2	12.1	11.9	60
62			12.2	12.8	12.5	12.3	11.3	12.4	12	11.8	11.4	11.2	11.2	10.9	62
64				11.9	11.6	11.4	10.3	11.5	11.1	10.9	10.5	10.3	10.3	10	64
66					10.7	10.6	9	10.6	10.2	10.1	9.7	9.5	9.4	9.2	66
68					9.9	9.8	7.7	9.8	9.5	9.3	8.9	8.7	8.5	8.4	68
70						9	7.7	9.1	8.7	8.5	8.2	7.9	7.6	7.6	70
72							7.7	8.3	8	7.8	7.5	7.2	6.7	6.9	72
74								7.7	7.3	7.2	6.8	6.6	5.9	6	74
76								7	6.7	6.5	6.2	5.9	5.1	5	76
78									6.1	5.9	5.6	5.3	4.3	3.9	78
80										5.3	5	4.8	3.4	2.9	80
82										4.8	4.4	4.2	2.7	2.1	82
84											3.9	3.7			84
86												3.2			86

08 Boom Combination

LJ configuration

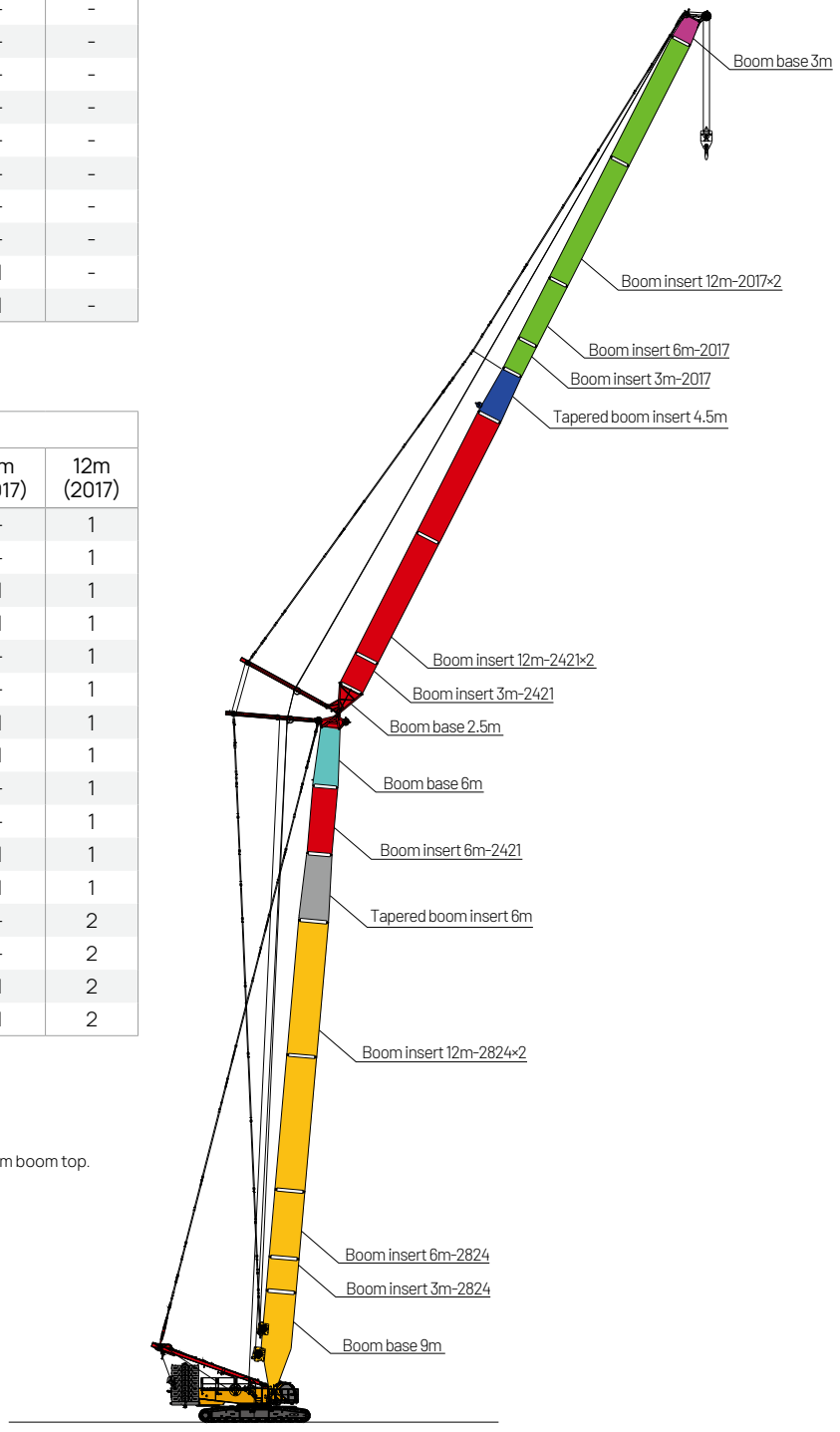
1 Boom Comfiguration (LJH)

Boom length (m)	Inserts					
	3m (2825)	6m (2825)	12m (2825)	3m (2421)	6m (2421)	12m (2421)
24	1	-	-	-	-	-
27	-	1	-	-	-	-
30	1	1	-	-	-	-
33	-	-	1	-	-	-
36	1	-	1	-	-	-
39	-	1	1	-	-	-
42	1	1	1	-	-	-
45	-	-	2	-	-	-
48	1	-	2	-	-	-
51	-	1	2	-	-	-
54	1	1	2	-	-	-
57	-	1	2	-	1	-
60	1	1	2	-	1	-

2 Boom Comfiguration (LJL)

Boom length (m)	Inserts					
	3m (2421)	6m (2421)	12m (2421)	3m (2017)	6m (2017)	12m (2017)
25	1	-	-	-	-	1
28	1	-	-	1	-	1
31	1	-	-	-	1	1
34	1	-	-	1	1	1
37	1	-	1	-	-	1
40	1	-	1	1	-	1
43	1	-	1	-	1	1
46	1	-	1	1	1	1
49	1	-	2	-	-	1
52	1	-	2	1	-	1
55	1	-	2	-	1	1
58	1	-	2	1	1	1
61	1	-	2	-	-	2
64	1	-	2	1	-	2
67	1	-	2	-	1	2
70	1	-	2	1	1	2

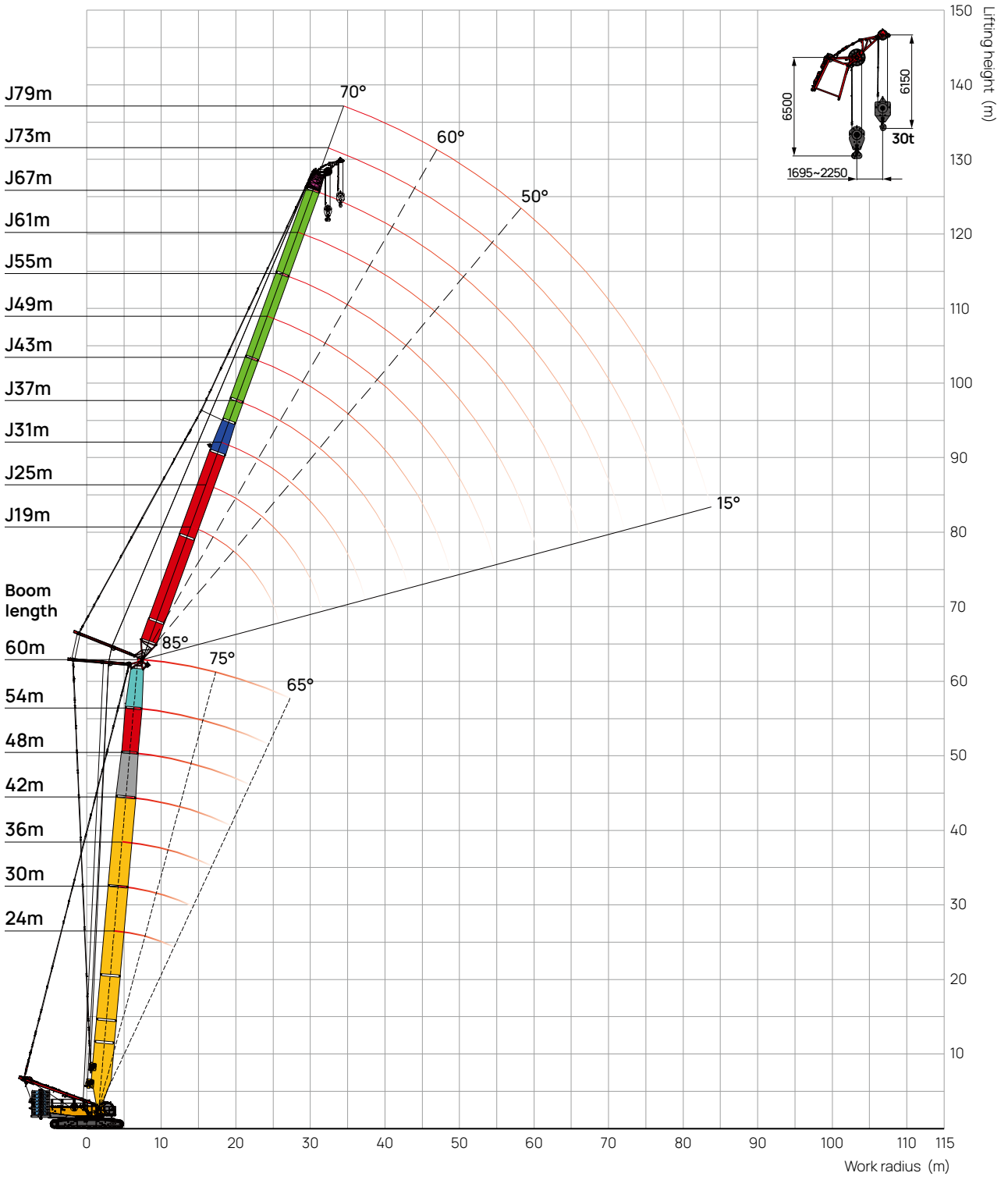
Note: 19m basic jib consists of 2.5m boom base, 4.5m transition section and 3m boom top.



LJ
(60m+70m)

08 Working Radius

LJ configuration



08 Load Chart

LJ configuration

Unit: t

m	Boom length 24m, Boom angle 85°, Jib length 25~70m, Rear counterweight 128t, Carbody counterweight 40t																m
	25	28	31	34	37	40	43	46	49	52	55	58	61	64	67	70	
14	127																14
16	105	105	105														16
18	87.6	88.6	88.5	88.9	89.1												18
20	78.8	75.5	75.5	76.1	76.3	76.5	74.8										20
22	67.6	69.1	69.3	66	66.3	66.6	66.8	62.9									22
24	58.2	60.2	60.6	61.4	58.3	58.6	58.9	57.2	58.9	58.8							24
26	53.3	52.6	53.3	54.3	54.9	52	52.3	52.2	52.4	52.4	52.5	52.3					26
28	42.4	49	47.1	48.3	48.9	49.4	46.9	47	47	47	47.1	47	47.2	47			28
30		42.3	44.3	43	43.8	44.4	44.9	43.5	42.4	42.4	42.5	42.4	42.6	42.5	42.4	38.4	30
36				30	33.7	32.6	33.4	33.8	34	34.1	34.3	32.1	32.3	32.2	32.2	32.1	36
40					22.9	28.2	29.5	28.1	28.4	28.7	28.9	29	29.3	27.2	27.3	27.1	40
44							22.9	24.9	25.6	24.1	24.5	24.6	24.9	24.9	25	23.1	44
48								18.2	21.1	21.8	20.7	20.9	21.3	21.3	21.4	21.4	48
52										17.5	18.8	19.2	18.2	18.3	18.4	18.4	52
56											14.1	16	16.7	15.5	15.8	15.8	56
60												11	13.7	14.3	14.7	13.5	60
64														11	12.3	12.5	64
68															8.7	10.3	68
72																6.5	72

m	Boom length 33m, Boom angle 85°, Jib length 25~70m, Rear counterweight 128t, Carbody counterweight 40t																m
	25	28	31	34	37	40	43	46	49	52	55	58	61	64	67	70	
16	104	102															16
18	92.8	91.2	89.8	88.3													18
20	83.5	82.1	80.9	79.6	78.2	77											20
22	71.4	72.8	72.9	72.3	69.7	69.9	69	64									22
24	61.4	63.2	63.5	64.3	64.7	61.3	61.6	58.5	60.9	60.2							24
26	56.2	55.2	55.8	56.7	57.2	57.6	54.6	53	54.6	54.6	54.7	53.7					26
28	47.8	51.4	52.4	50.3	50.9	51.4	51.8	48.6	48.8	48.8	48.9	48.8	49	48.5			28
30		44.6	46.2	44.7	45.5	46	46.5	44.8	46	44	44.1	44	44.2	44	42.7	38.4	30
36		40	40.6	42.5	40.8	41.4	42	41	42.3	42.4	39.9	39.8	40	39.9	39.9	37	36
40				33.2	35	36.1	34.5	34.9	35.1	35.2	35.4	35.4	35.6	33.2	33.2	33	40
44					29.3	29.2	30.4	30.4	29.3	29.5	29.7	29.8	30.1	30	30	27.9	44
48						22.3	24.6	25.7	26.3	24.8	25.1	25.2	25.6	25.6	25.6	25.5	48
52								20.7	21.8	22.4	22.9	21.4	21.8	21.8	21.9	21.9	52
56									18.3	18.5	19.3	19.6	20.2	18.7	18.8	18.8	56
60											15.8	16.4	17.1	17.3	16.1	16.1	60
64												14.6	14.3	14.7	15	15.1	64
68													11.8	12.1	12.6	12.8	68
72															10.2	10.6	72
76																9.3	76

08 Load Chart

LJ configuration

Unit: t

m	Boom length 42m, Boom angle 85°, Jib length 25~70m, Rear counterweight 128t, Carbody counterweight 40t																m
	25	28	31	34	37	40	43	46	49	52	55	58	61	64	67	70	
16	98.5																16
18	87.9	86.4	85.1														18
20	79.3	77.9	76.8	75.5	74.2												20
22	72.1	70.9	69.9	68.8	67.6	66.5	65.6										22
24	65.3	65	64.1	63.1	62	61	60.2	59	58.2								24
26	60	58.4	58.8	58.2	57.2	56.3	55.5	54.1	53.7	52.8	52.1						26
28	51.4	54.4	54.9	52.8	53	52.1	51.4	49.4	49.7	48.9	48.3	47.4	47				28
30	45.7	47.5	48.8	47	47.7	48.2	47.9	45.5	46.3	45.5	44.9	44.1	43.8	43	40.4		30
36			33.5	35.2	36.8	37.7	36	35.8	36.5	36.6	36.7	36.2	35.9	34.4	34.4	34.1	36
40					31.2	30.7	31.8	31.1	30.4	30.6	30.8	30.9	31.1	31	30.8	30.2	40
44						25.9	25.9	26.9	27.2	25.8	26.1	26.1	26.5	26.4	26.5	26.4	44
48								21.9	22.8	23.3	23.8	22.2	22.6	22.6	22.7	22.6	48
52									20	19.4	20.1	20.4	20.9	19.4	19.5	19.4	52
56										16.8	16.6	17.2	17.8	18	18.2	16.7	56
60												15.4	14.9	15.3	15.6	15.7	60
64													13.3	12.7	13.2	13.3	64
68															10.8	11.2	68
73																9.5	73

m	Boom length 51m, Boom angle 85°, Jib length 25~70m, Rear counterweight 128t, Carbody counterweight 40t																m
	25	28	31	34	37	40	43	46	49	52	55	58	61	64	67	70	
18	83	81.6															18
20	75	73.8	72.7	71.5													20
22	68.4	67.3	66.3	65.2	64.1	63.1											22
24	62.9	61.8	60.9	59.9	58.9	57.9	57.1	56.2									24
26	58.1	57.1	56.3	55.4	54.4	53.5	52.8	51.9	51	50.1							26
28	54.1	53	52.3	51.4	50.5	49.6	49	48.1	47.3	46.5	45.9	45					28
30	49.8	49.5	48.8	47.9	47.1	46.3	45.6	44.8	44.1	43.3	42.7	41.9	41.6	39.8			30
36			36.8	37.1	38.5	38.2	37.4	36.7	36.3	35.6	35.1	34.4	34.1	33.5	33	32	36
40					33	32.1	33.1	31.5	31.6	31.6	31.2	30.5	30.3	29.7	29.2	28.6	40
44						27.5	27.1	27.5	28	28.3	27	27	27.1	26.5	26.1	25.5	44
48							23	22.9	23.7	24.2	24.7	24.4	23.3	23.3	23.4	22.9	48
52									21	20.2	20.8	21.1	21.6	20	20.1	20	52
56										17.8	17.3	17.8	18.4	18.6	18.5	17.2	56
60											15	16.2	15.6	15.8	16.1	16.1	60
64													14	13.2	13.7	13.8	64
68														11.8	12.6	11.6	68
72																10.6	72
74																9.4	74

08 Load Chart

LJ configuration

Unit: t

m	Boom length 60m, Boom angle 85°, Jib length 37~70m, Rear counterweight 128t, Carbody counterweight 40t												m
	37	40	43	46	49	52	55	58	61	64	67	70	
22	55.8												22
24	49.4	49.4	49.7										24
26	44.3	44.4	44.5	44.4	44.6								26
28	40.1	40.2	40.2	40.1	40	40.1	39.2						28
30	36.8	36.5	36.5	36.4	36.3	36.2	36.3	35.4	34.7				30
36	28.8	28.5	28.4	28.2	28	27.7	27.8	27.5	27.5	27.4	27.2	26.3	36
40	25.1	24.7	24.5	24.3	24.1	23.8	23.7	23.4	23.4	23.1	22.8	22.7	40
44		21.6	21.5	21	20.9	20.6	20.5	20.2	20.2	19.9	19.7	19.2	44
48			18.9	18.5	18.5	18	17.9	17.6	17.5	17.3	17	16.6	48
52				16.3	16.2	15.9	15.7	15.3	15.2	15	14.7	14.3	52
56						13.9	13.8	13.5	13.4	13.1	12.8	12.4	56
60							12.1	11.9	11.8	11.5	11.2	10.7	60
64									10.4	10	9.7	9.4	64
68										8.8	8.5	8.1	68
72											7.3	7	72
75												7	75

08 Boom Combination

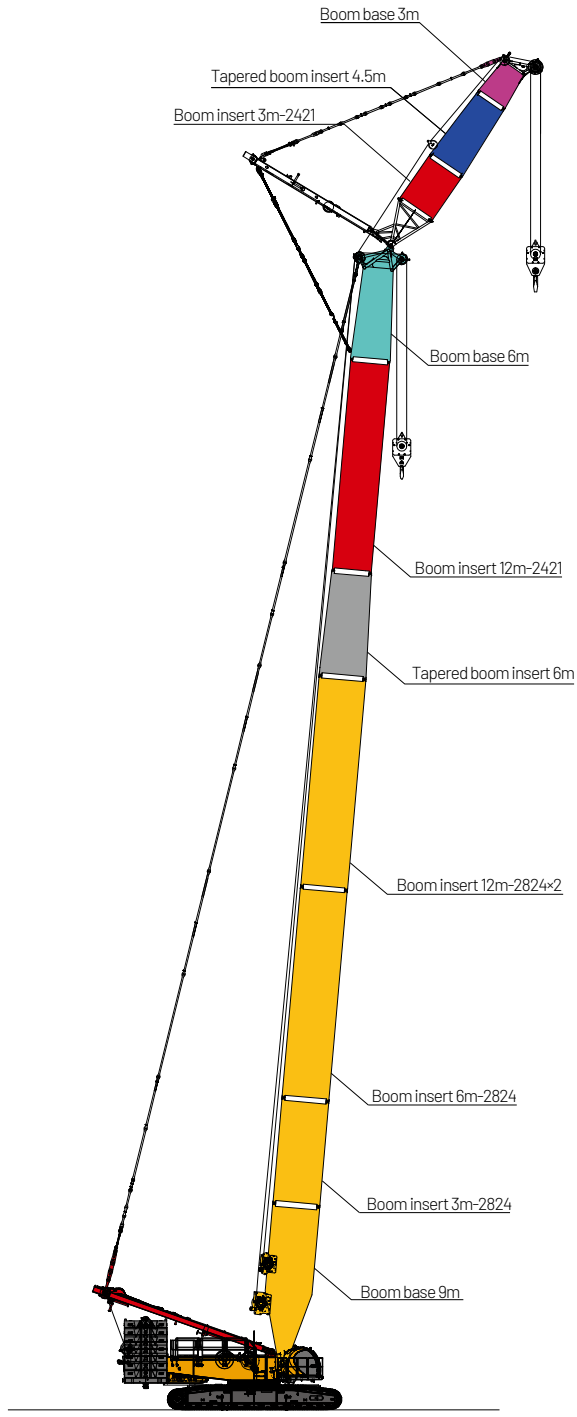
FJ configuration

1 Boom Comfiguration (FJH)

Boom length (m)	Inserts					
	3m(2825)	6m(2825)	12m(2825)	3m(2421)	6m(2421)	12m(2421)
24	1	-	-	-	-	-
27	-	1	-	-	-	-
30	1	1	-	-	-	-
33	-	-	1	-	-	-
36	1	-	1	-	-	-
39	-	1	1	-	-	-
42	1	1	1	-	-	-
45	-	-	2	-	-	-
48	1	-	2	-	-	-
51	-	1	2	-	-	-
54	1	1	2	-	-	-
57	-	-	2	-	-	1
60	1	-	2	-	-	1
63	-	1	2	-	-	1

2 Boom Comfiguration (FJF)

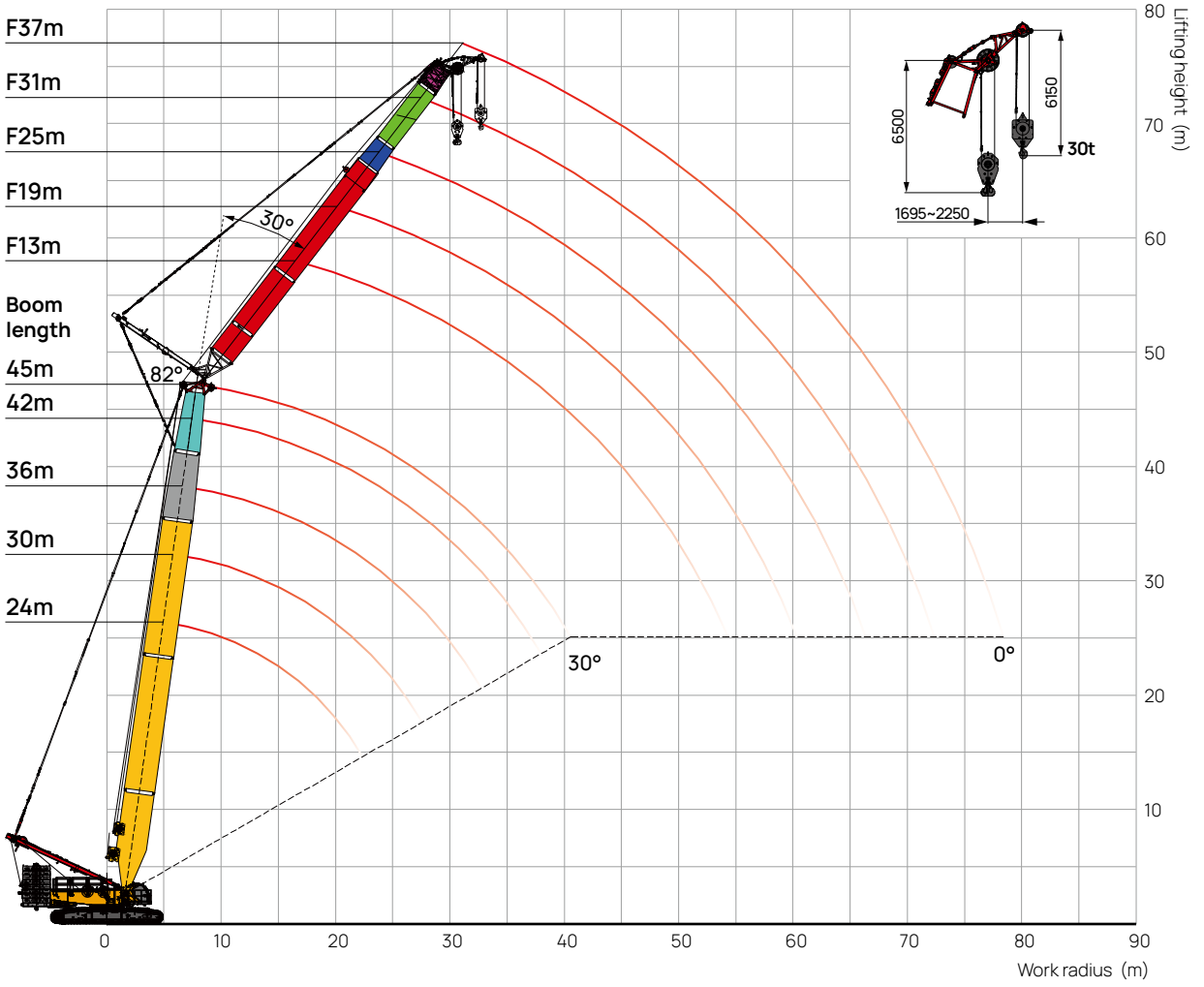
Boom length (m)	Inserts					
	3m(2421)	6m(2421)	12m(2421)	3m(2017)	6m(2017)	12m(2017)
13	1	-	-	-	-	-
16	1	-	-	1	-	-
19	1	1	-	-	-	-
22	1	1	-	1	-	-
25	1	-	1	-	-	-
28	1	-	1	1	-	-
31	1	1	1	-	-	-
34	1	1	1	1	-	-
37	1	1	1	-	1	-



FJ
(63m+13m)/(45m+37m)

08 Working Radius

FJ configuration



08 Load Chart

FJ configuration

Unit: t

m	Boom to jib angle 30°, Boom 24~63m, Fixed jib 13m, Rear counterweight 128t, Carbody counterweight 40t														m
	24	27	30	33	36	39	42	45	48	51	54	57	60	63	
15	53.8	52.4													15
16	52.6	51.2	55.8	69.4	70.4										16
18	50.5	49.3	54.1	66.2	67.3	68.1	67.9	68.5	68.6						18
20	48.6	47.7	52.4	63.3	64.4	65.2	66.1	66.8	66.5	66.8	67.2	37.6	37.3	37	20
22	46.9	46.2	51	60.7	61.7	62.7	63.6	64.3	64.2	64.6	65.2	36.8	36.5	36.1	22
24	45.5	45	49.3	58.3	59.4	60.4	61.3	61.4	60.4	59.4	58.4	35.6	35.6	35.6	24
26	44	43.8	48.2	55.6	55.3	55.1	54.9	54.7	54.3	53.3	52.4	34.7	34.8	34.8	26
28	43	42.9	47.2	49.4	49.2	49	48.7	48.6	48.3	48.1	47.2	33.9	34	34.1	28
30	42.2	41.8	44.3	44.2	44	43.8	43.5	43.3	43.1	42.8	42.5	33.2	33.3	33.4	30
32	40	40	39.8	39.7	39.5	39.3	39	38.8	38.6	38.3	38	32.5	32.6	32.7	32
34	36	36	35.8	35.8	35.6	35.4	35.1	34.9	34.6	34.4	34.1	32.7	32	32.1	34
36		32.4	32.3	32.3	32.1	31.9	31.6	31.5	31.2	30.9	30.6	31.1	30.8	30.5	36
38		29.2	29.2	29.2	29	28.8	28.6	28.4	28.1	27.9	27.5	28	27.7	27.4	38
40			26.3	26.4	26.2	26.1	25.8	25.7	25.4	25.1	24.8	25.3	25	24.7	40
44					21.4	21.3	21.1	21	20.7	20.4	20.1	20.6	20.3	20	44
48						17.3	17.1	17.1	16.8	16.5	16.2	16.8	16.4	16.2	48
52								13.7	13.5	13.2	12.9	13.5	13.2	12.9	52
56									10.5	10.4	10.1	10.7	10.4	10.1	56
60											7.6	8.3	8	7.7	60
64													5.8	5.6	64
68														3.7	68

Unit: t

m	Boom to jib angle 30°, Boom 24~63m, Fixed jib 25m, Rear counterweight 128t, Carbody counterweight 40t										m
	24	27	30	33	36	39	42	45	48	51	
22	27.8										22
24	26.4	25.7	28.1	39.4	39.6	37.4					24
26	25.4	24.6	27.2	38.2	38.5	36.5	38.6	39.8	40	40	26
28	24.2	23.8	26.2	37.1	37.5	35.6	37.7	38.5	38.6	38.7	28
30	23.2	23	25.4	35.6	36.4	35.1	36.9	37.2	37.3	37.2	30
32	22.4	22.1	24.4	34.2	34.9	34.3	36.1	36.6	36.1	35.7	32
34	21.7	21.3	23.6	32.9	33.5	33.6	34.8	35.3	35	34.7	34
36	20.9	20.7	23	31.6	32.3	33	33.6	34.1	34	33.7	36
38	20.1	20	22.4	30.5	31.2	31.6	31.4	31.2	30.9	30.6	38
40	19.6	19.5	21.7	29.3	29	28.8	28.5	28.3	28	27.8	40
42	19.1	19	21.2	26.8	26.5	26.3	26	25.8	25.5	25.2	42
44	18.7	18.6	20.7	24.5	24.2	23.9	23.6	23.5	23.2	22.9	44
46	18.5	18.2	20.2	22.4	22.1	21.8	21.5	21.4	21	20.8	46
48		17.9	19.9	20.4	20.2	19.9	19.6	19.4	19.1	18.9	48
50		17.9	18.6	18.6	18.4	18.1	17.8	17.7	17.3	17.1	50
52			16.9	16.9	16.7	16.5	16.2	16	15.7	15.4	52
54				15.3	15.1	14.9	14.7	14.5	14.2	13.9	54
56					13.6	13.5	13.2	13.1	12.8	12.5	56
58						12.1	11.9	11.7	11.5	11.2	58
60						10.8	10.6	10.5	10.2	10	60
62							9.3	9.3	9	8.8	62
64								8.1	7.9	7.7	64
66									6.8	6.6	66
68									5.8	5.6	68
70										4.6	70

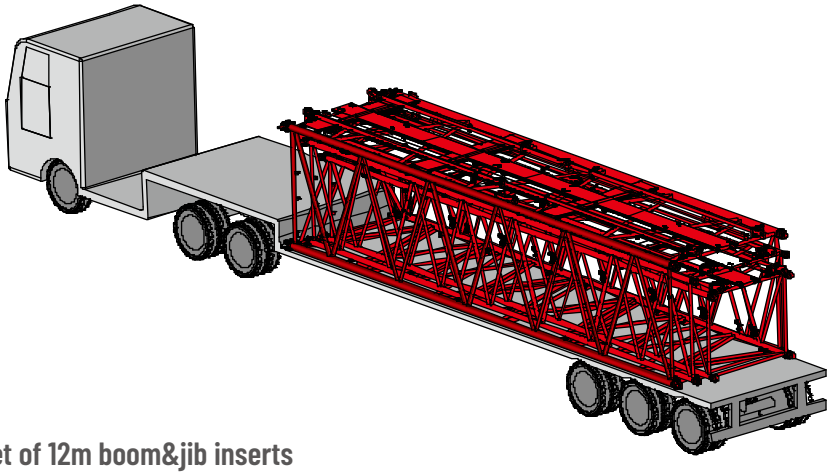
08 Load Chart

FJ configuration

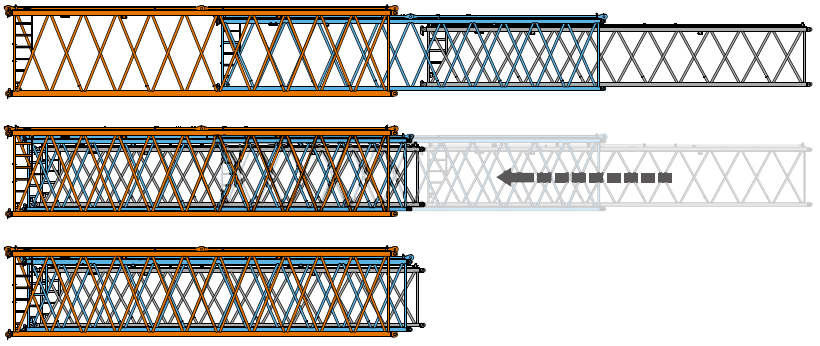
Unit: t

m	Boom to jib angle 30°, Boom 24~63m, Fixed jib 37m, Rear counterweight 128t, Carbody counterweight 40t								m
	24	27	30	33	36	39	42	45	
32	15.4	14.8	16.5	23.9					32
34	14.6	14.3	15.9	23	22.9	22.3	23	23.1	34
36	14	13.5	15.2	22	22.2	21.9	22.2	22.3	36
38	13.3	13.1	14.6	20.9	21.4	21.4	21.3	21.4	38
40	12.8	12.4	14.1	20	20.6	20.9	20.8	20.7	40
42	12.3	11.9	13.6	19.2	19.8	20.1	20.2	20.3	42
44	11.8	11.5	13.1	18.5	19	19.4	19.7	20	44
46	11.3	11.1	12.6	17.8	18.3	18.7	19.1	19.4	46
48	10.8	10.7	12.2	17.2	17.7	18.1	18.5	18.9	48
50	10.4	10.3	11.8	16.6	17.1	17.5	17.9	18.2	50
52	10.1	10	11.5	16.1	16.5	17	17.4	17.7	52
54	9.8	9.7	11.1	15.6	16.1	16.5	16.4	16.2	54
56	9.6	9.4	10.8	15.2	15.5	15.2	14.9	14.7	56
58	9.5	9.1	10.6	14.4	14.1	13.8	13.6	13.4	58
60		8.9	10.4	13.1	12.8	12.6	12.3	12.1	60
62		8.9	10.2	11.8	11.6	11.3	11.1	10.9	62
64			10.1	10.6	10.4	10.2	9.9	9.7	64
66				9.4	9.3	9.1	8.8	8.7	66
68					8.1	8	7.8	7.6	68
70						7	6.8	6.6	70
72						5.9	5.8	5.7	72
74							4.8	4.8	74
76								3.8	76

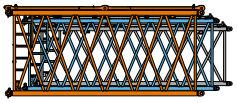
09 | Transportation of Three-tiered Boom Set



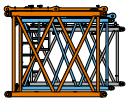
1 Three-tiered boom set of 12m boom&jib inserts



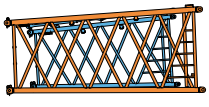
2 Three-tiered boom set of 6m boom&jib inserts



3 Three-tiered boom set of 3m boom&jib inserts



4 Three-tiered boom set of tapered inserts



Zhejiang Sany Equipment Co.,LTD

SANY Crawler Crane Industrial Park, No. 2188 Daishan Road, Wuxing District, Huzhou City, Zhejiang Province, P. R. China Zip 313028
Consulting sanycrane@sanygroup.com (Crane BU) / crd@sany.com.cn (IHQ)
After-sales Service 0086-400 6098 318

Reminder:
Any change in the technical parameters and configuration due to product modification or upgrade may occur without prior notice.
The machine in the picture may include additional equipment. This brochure is for reference only, and goods in kind shall prevail.
Copyright at SANY. No part of this brochure may be copied or used for any purpose without written approval from SANY.

© Edited in May 2024

SANY CRANE | www.sanygroup.com