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ZOOMLION CRAWLER CRANE ZCC1500V-1G3



ZOOMLION

VISION CREATES FUTURE

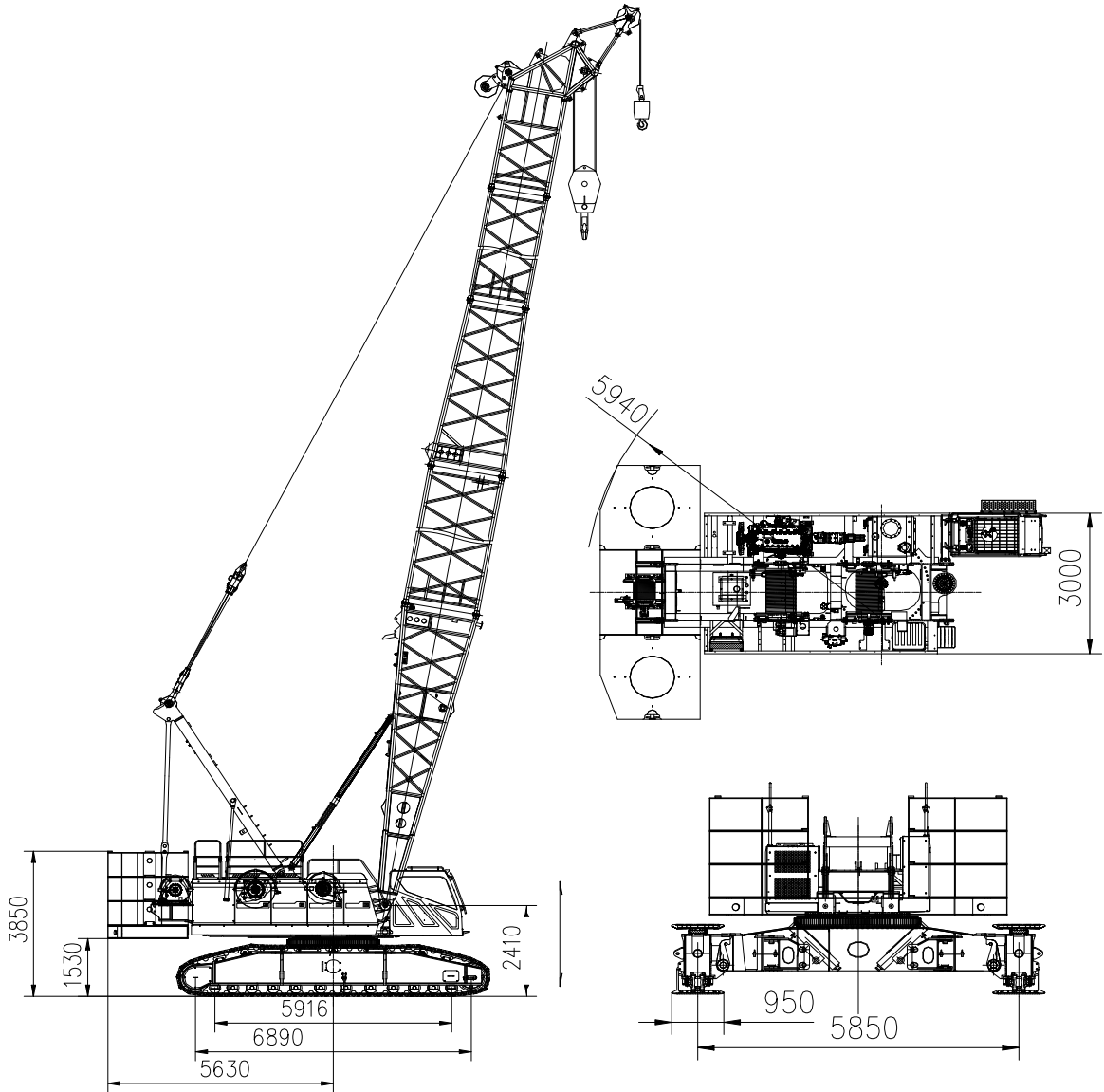
CONTENTS 目录

ZCC1500V-1G3	DEMENSIONS	01
ZCC1500V-1G3	TECHNICAL HIGHLIGHTS	01
ZCC1500V-1G3	DESCRIPTION ON BOOM COMBINATION	02
ZCC1500V-1G3	TECHNICAL PARAMETERS	03
ZCC1500V-1G3	TRANSPORT DIMENSIONS AND WEIGHTS	04/08
ZCC1500V-1G3	TECHNICAL DESCRIPTION	09/10
ZCC1500V-1G3	LIFTING PERFORMANCE	11/18



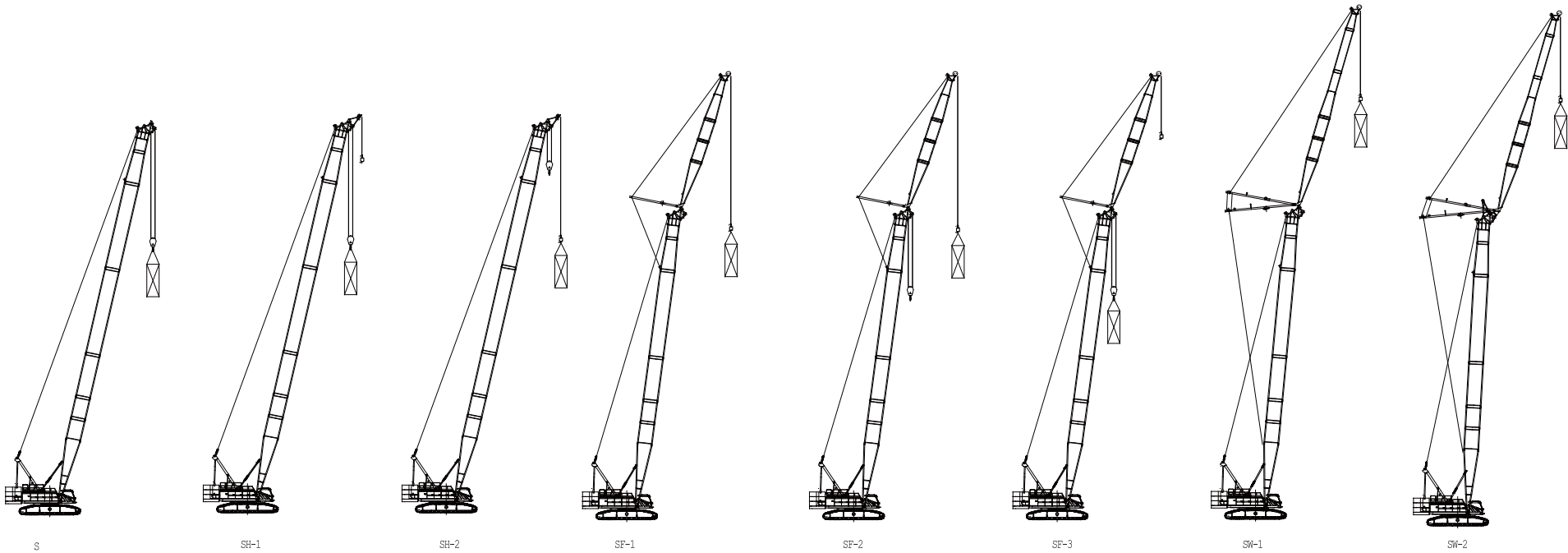
DEMENSIONS

Overall dimensions of the crane



DESCRIPTION ON BOOM COMBINATION

Code	Operating mode	Rear counterweight + central ballast	Parameters	Description
S	Main boom	30t+10t	16m~52m	Load on main boom
		46t+10t	16m~58m	
		62t+20t	16m~67m	
		72t+10t	25m~76m	
		72t+20t	22m~76m	
SH-1	Main boom + tip boom (main hook)	62t+20t	16m~67m	Main boom: loaded Tip boom: unloaded
		72t+10t	25m~67m	
		72t+20t	22m~67m	
SH-2	Main boom + tip boom (auxiliary hook)	62t+20t	16m~67m	Main boom: unloaded Tip boom: loaded
		72t+10t	25m~67m	
		72t+20t	22m~67m	
SF-1	Main boom + fixed jib (auxiliary hook, without main hook)	72t+20t	(28m~52m) + (13m~31m)	Fixed jib: loaded Main boom: unloaded, no hook
SF-2	Main boom + fixed jib (auxiliary hook, with main hook)	72t+20t	(28m~52m) + (13m~31m)	Fixed jib: loaded Main boom: unloaded, with hook
SF-3	Main boom + fixed jib (main hook)	72t+20t	(28m~52m) + (13m~31m)	Main boom: loaded Fixed jib: unloaded but with hook
SW-1	Main boom + luffing jib (auxiliary hook)	72t+20t	(28m~52m) + (25m~46m)	Luffing jib: loaded Main boom: unloaded, no hook
SW-2	Main boom + foldable luffing jib (auxiliary hook)	72t+20t	(28m~52m) + (25m~46m)	Foldable luffing jib: loaded Main boom: unloaded, no hook

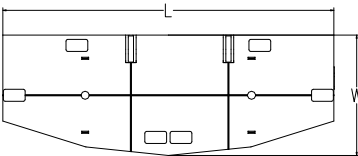
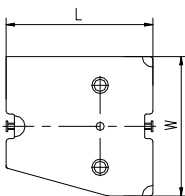
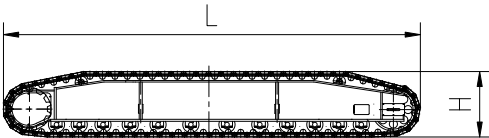
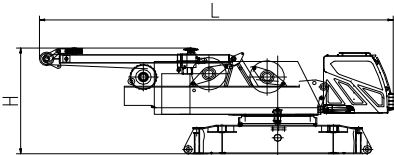
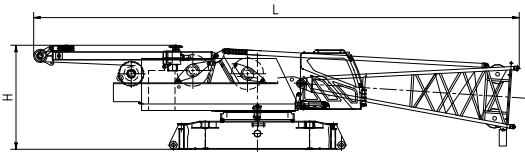


TECHNICAL PARAMETERS

Category	Item	Unit	Values	Notes
Main boom operating mode	Max.rated lifting moment	t·m	861	
	Max.rated lifting capacity×radius	t×m	150×5	
	Length of main boom	m	16 ~ 76	
Fixed jib operating mode	Max.rated lifting capacity×radius	t×m	46.1×12	
	Length of fixed jib	m	13 ~ 31	
	Max.length of main boom+jib	m	52+31	
Luffing jib operating mode	Max.rated lifting capacity	t	46.8×12	
	Length of luffing jib	m	25 ~ 46	
	Max.length of main boom+jib	m	52+46	
Foldable luffing jib operating mode	Max.rated lifting capacity	t	30×12	
	Length of luffing jib	m	25 ~ 46	
	Max.length of main boom+jib	m	52+46	
Mechanism speed	Ropes peed of main hoisting winch	m/min	140	
	Ropes peed of secondary hoisting winch	m/min	110	
	Ropes peed of main derricking winch	m/min	68.3	
	Slewing speed	rpm	1.23	
	Crawling speed	km/h	1.2	
Engine	Model/emission standard	L	WP10G336E344	CHINAIII for non-road mobile machinry
	Rated power/rotational speed	kW/rpm	247/1900	
	Max.output torque/rotational speed	kW/rpm	1550/1100-1400	
Transport parameters	Deadweight of crawler crane	t	145.83	Basic boom with main hook
	Transport dimension of basic machine (length×width×height)	m	16.3×3.0×3.2	With pivot section
Other parameters	Average ground pressure (withbasicboom)	MPa	0.11	
	Gradeability	%	30	
	Distance between two tracks×contactlength of track×width of track pad	m	5.85×6.9×0.95	
	Slewingradius	m	5.94	

Attention: The value of ground pressure is a mean value. The actual maximum ground pressure shall be determined by the actual operating mode.

TRANSPORT DIMENSIONS AND WEIGHTS



Basic machine 1	1 piece*
Length(L)	16300 mm
Width (W)	3000 mm
Height (H)	3200 mm
Weight	32500 kg

Note: with pivot section

Basic machine 1	1 pieces*
Length(L)	10100 mm
Width (W)	3000 mm
Height (H)	3200 mm
Weight	30000 kg

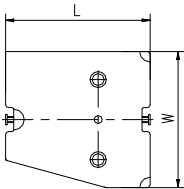
Without pivot section and tilting–back support

Crawler carrier assy	2 pieces
Length(L)	7830 mm
Width (W)	1180 mm
Height (H)	1385 mm
Weight	12500 kg

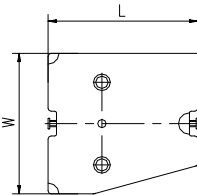
Central ballast	4 pieces
Length(L)	1790 mm
Width (W)	2000 mm
Height (H)	425 mm
Weight	5000 kg

Counterweight base	1 piece
Length(L)	6000 mm
Width (W)	2000 mm
Height (H)	1180 mm
Weight	14000 kg

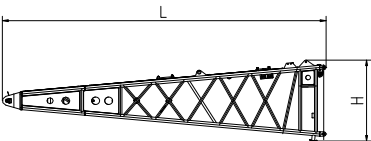
TRANSPORT DIMENSIONS AND WEIGHTS



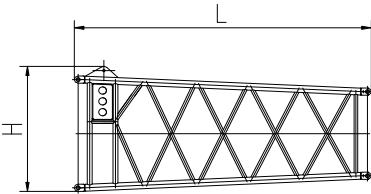
Counterweight slab 1	3 pieces
Length (L)	1790 mm
Width (W)	2000 mm
Height (H)	605 mm
Weight	8000 kg



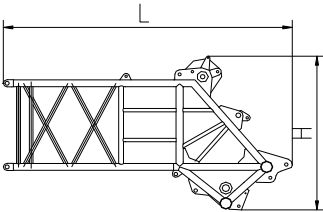
Counterweight slab 2	3 pieces
Length (L)	1790 mm
Width (W)	2000 mm
Height (H)	605 mm
Weight	8000 kg



Main boom pivot section	1 piece
Length (L)	8185 mm
Width (W)	2220 mm
Height (H)	2200 mm
Weight	2332 kg

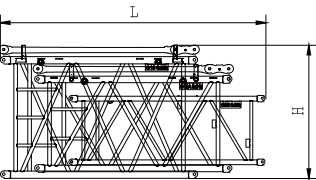


Main boom reducing section	1 piece
Length (L)	4620 mm
Width (W)	2220 mm
Height (H)	2080 mm
Weight	980 kg

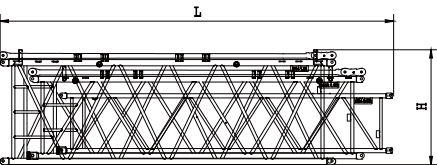


Main boom head section	1 piece
Length (L)	4570 mm
Width (W)	1840 mm
Height (H)	2700 mm
Weight	1940 kg

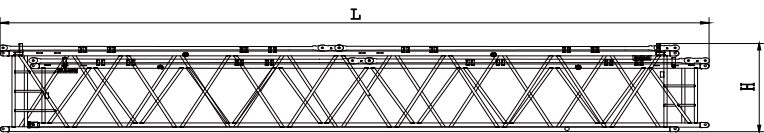
TRANSPORT DIMENSIONS AND WEIGHTS



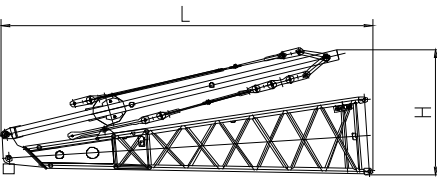
Package of 3m intermediate sections	2 pieces*
Length(L)	4180 mm
Width (W)	2220 mm
Height (H)	2100 mm
Weight	1413 kg



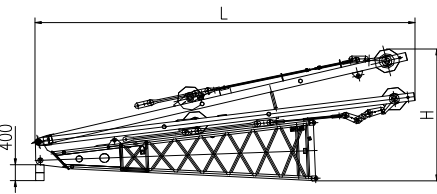
Package of 6m intermediate sections	1 piece*
Length(L)	7180 mm
Width (W)	2220 mm
Height (H)	2100 mm
Weight	2387 kg



Package of 12m intermediate sections	2 pieces*
Length(L)	12700 mm
Width (W)	2220 mm
Height (H)	2100 mm
Weight	3741 kg

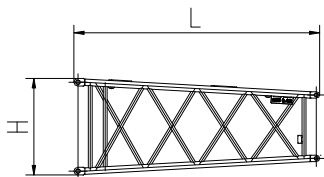


Fixed jib pivot section (with FA-frame and anchoring rods)	1 piece*
Length(L)	6740 mm
Width (W)	1820 mm
Height (H)	2340 mm
Weight	2126 kg

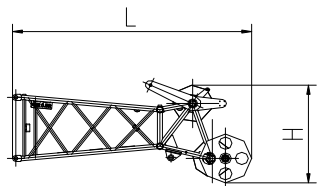


Luffing jib pivot section (with WA-frame and anchoring rods)	1 piece*
Length(L)	9000 mm
Width (W)	1820 mm
Height (H)	3320 mm
Weight	3687 kg

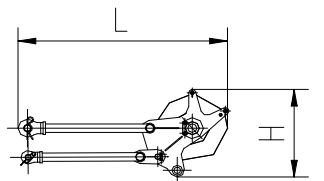
TRANSPORT DIMENSIONS AND WEIGHTS



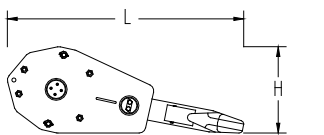
Jib reducing section	1 piece*
Length (L)	3610 mm
Width (W)	1840 mm
Height (H)	1250 mm
Weight	423 kg



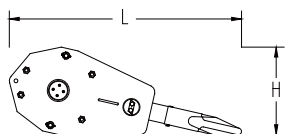
Jib head section	1 piece*
Length (L)	3650 mm
Width (W)	1330 mm
Height (H)	1600 mm
Weight	580 kg



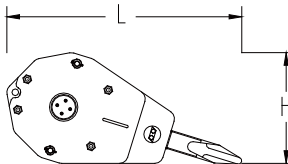
Tip boom	1 piece
Length (L)	1800 mm
Width (W)	1200 mm
Height (H)	800 mm
Weight	215 kg



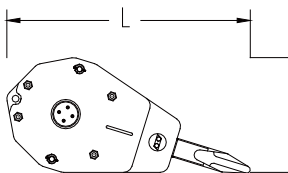
Hook (160t)	1 piece*
Length (L)	2000 mm
Width (W)	1070mm
Height (H)	780 mm
Weight	2221 kg



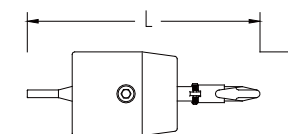
Hook (100t)	1 piece*
Length(L)	1810 mm
Width (W)	850 mm
Height (H)	780 mm
Weight	1656 kg



Hook (80t)	1 piece*
Length(L)	1800 mm
Width (W)	695 mm
Height (H)	790 mm
Weight	1414 kg



Hook (32t)	1 piece*
Length(L)	1630 mm
Width (W)	616 mm
Height (H)	780 mm
Weight	979 kg



Hook (13.5t)	1 piece*
Length(L)	1060 mm
Width (W)	390 mm
Height (H)	390 mm
Weight	420 kg

- Notes:
- 1. Figures in the above table are schematic diagrams that are not drawn in fixed proportions. Dimensions shown are general boundary dimensions.
 - 2. Packaging weight is not included. Weights might be different from what are listed in the above table due to manufacturing error.
 - 3. Dimensions of actual products shall prevail if dimensions and weights differ from what are listed above due to parts improvement.
 - 4. Number of parts marked with * are determined by actual needs.

TECHNICAL DESCRIPTION

Power unit

Weichai electronic-injection diesel engine: WP10G336E344 Rated power / rotational speed: 247kW/1900r/min Maximum output torque / rotational speed: 1550N•m/1100~1400r/min Emission standard: CHINA III for non-road mobile machinery Volume of fuel oil tank: 600L.

Hydraulic system

Hydraulic pump: two plunger pumps of famous brand; energy-saving, stable and reliable; it drives winches and the crawling mechanism; the triple gear pump is used for slewing, auxiliary operations and the dissipation of the hydraulic system.
Control system: a pilot proportional control hydraulic system with a load feedback system; two hydraulic joysticks and two foot-operated crawling control valves are used for controlling different executive components.
Actuators: The motor for hoisting winches is a variable plunger pump with large displacement, featuring high speed and high stability. Pin cylinders, cylinders for operator’s cab and outrigger cylinders are also equipped.
Volume of hydraulic oil tank: 620L.

Centralized display system

The large LCD touch screen of 10.4 inches displays in multiple languages. It displays all kinds of signals collected by the PLC controller.

GPS/GPRS remote monitoring system

GPS/GPRS remote monitoring system realizes such functions as global positioning of equipment, working information monitoring of equipment, fault diagnosis, remote maintenance, alarm, locking and theft prevention, etc.

Hoisting mechanism

Both the main hoisting winch and the secondary hoisting winch are driven by an axial hydraulic variable-displacement piston motor through a built-in planetary reducer. Braking of the spring on winch motor is controlled by the balancing valve. The reel with a double-rope groove guarantees that rope of multiple layers will not intertwine together.

	Main hoisting winch	Secondary hoisting winch
Rated single rope tension	13.5t	13.5t
Wire rope diameter	26mm	26mm
Wire rope length	340m	250m
Max. single rope speed	140m/min	110m/min

Derricking mechanism

The derricking winch is driven by an axial piston motor through a built-in planetary reducer and brakes through the spring on the motor end.
Cable drum lock: The winch is locked by ratchet wheel and ratchet pawl.

	Derricking winch
Rated single rope tension	10t
Wire rope diameter	20mm
Wire rope length	230m
Max. single rope speed	68.3m/min

Slewing mechanism

The slewing mechanism is composed of hydraulic motor, slewing reducer, control valve and slewing bearing. Small gear of the output shaft rotates around the slewing bearing ring fixed on the chassis so that the slewing platform makes slewing movement of 360°. Maximum slewing speed: 1.23rpm.

TECHNICAL DESCRIPTION

Counterweight

Counterweight slabs are piled on the pallet and securely locked by a locking device.
Refer to the table below for the combination of counterweight: rear counterweight is composed of a pallet and two types of counterweight slabs: the pallet weighs14t; one type of counterweight slab weighs 8t (3 pieces; 24t in total); the other type of counterweight slab weighs 8t (3 pieces; 24t in total). The total weight of the counterweight weighs 62t.
Central ballast is composed of a pallet and four counterweight slabs (5t for each; 20t in total), two of which can be installed together with the rear counterweight to form a combination of 72t+10t. A counterweight slab of 10t can be purchased additionally to form a combination of 72t+20t.
Refer to the table below for specific combinations of counterweight:

Weight of counterweight		Pallet (14t)	Counterweight slab (left, 8t)	Counterweight slab (right, 8t)	Counterweight slab (left, 5t)	Counterweight slab (right, 5t)
Rear counterweight	30t	1	1	1		
	46t	1	2	2		
	62t	1	3	3		
	72t	1	3	3	1	1
Central ballast	10t				1	1
	20t				2	2

Operator’s cab

Operator’s cab of exclusive use for crawler crane; switch-controlled cab-pitching mechanism (pitching range: 0°~15°).
The seat in the cab is upgraded to an air-suspension soft seat.
Main hoisting winch, secondary hoisting winch, slewing and boom derricking are controlled by the cross pilot hydraulic-control joysticks.
Radio; bluetooth speaker; USB charging port a color display of 10.4” and a monitoring screen; electric-drive cold/warm air conditioner.

Crawling mechanism

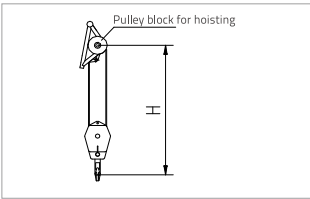
The crawling mechanism adopts dual motors and dual reducers. Crawling of the two tracks is controlled by the two levers respectively.
Crawling speed: 0~1.2km/h.
Gradeability: 30%.
Tensioning of track: The track is tensioned by a jack.

Hook

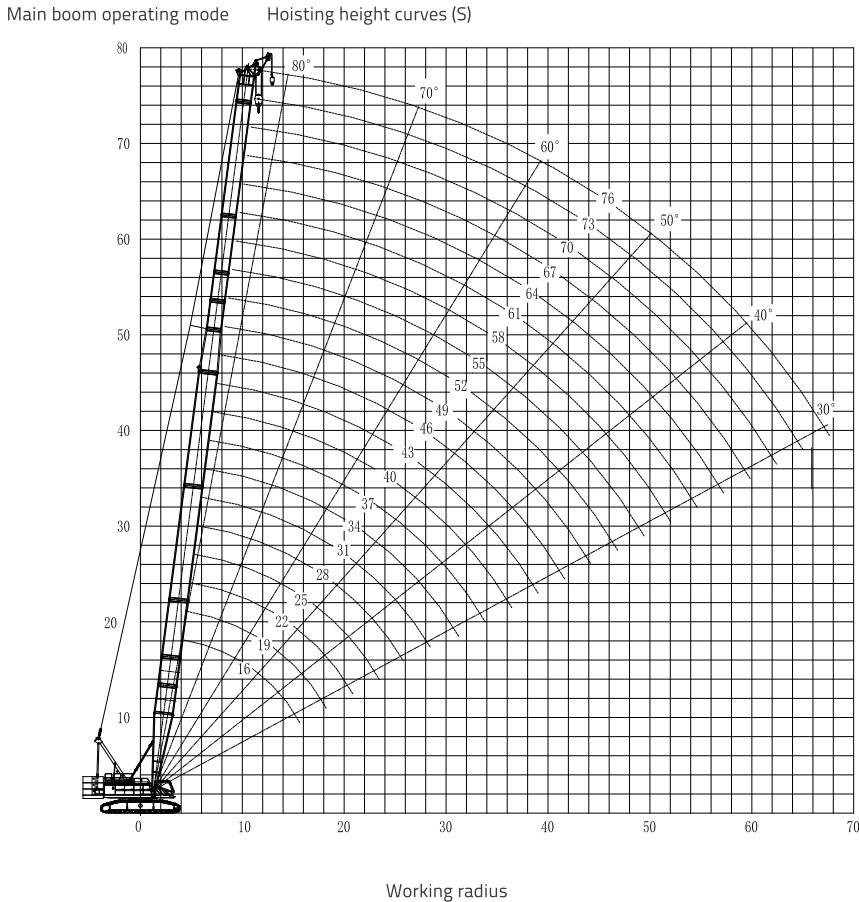
Four types of hooks are available. Each hook is equipped with an anti-unhooking device.

Specification of hook	Weight of hook (Kg)	Number of pulleys
160 t	2221	7
100 t	1656	5
80 t	1414	3
32 t	979	1
13.5 t	420	0

Hoisting limit height for different hooks:

	Hook	Height
	160t	5.1m
	100t	4.9m
	80t	4.9m
	32t	4.8m
	13.5t	4.3m

LIFTING PERFORMANCE



Unit: m

Lifting capacity chart (S) (rear counterweight of 62t + central ballast of 20t)

Unit: t

Hoisting height

Length of main boom (m)																				
Radius(m)	16	19	22	25	28	31	34	37	40	43	46	49	52	55	58	61	64	67		
5	150	150																		
6	141.6	141.6	141.6	138.9	133															
7	118	118	118	115	111	107	103.3	99.8												
8	101.1	101.1	101.1	97.9	94.7	91.9	89	86.5	83.9	81.6	79.4									
9	89.5	88.3	87.1	85.1	82.7	80.4	78.2	76.2	74.1	72.2	70.3	62.1	58.2							
10	77.1	76.3	75.4	74.4	73.2	71.5	69.6	67.9	66.2	64.6	63.1	59.6	55.7	52.1	48.4	45.2				
12	59.1	59.3	59.3	58.6	57.9	57.3	56.6	55.6	54.3	53.2	52.1	50.9	49.8	48.1	44.8	41.7	39.2	36.3		
14	47.6	47.8	47.9	47.9	47.5	47.1	46.6	46	45.5	45	44.1	43.2	42.3	41.4	40.6	39.1	36.6	33.6		
16		39.7	39.9	39.9	39.9	39.8	39.4	39	38.5	38.1	37.7	37.2	36.6	35.9	35.1	34.5	33.8	31.4		
18		33.8	34	34	33.9	34	33.9	33.6	33.2	32.9	32.5	32.1	31.7	31.2	30.8	30.3	29.7	28.6		
20			29.4	29.4	29.4	29.5	29.4	29.3	29.1	28.8	28.5	28.1	27.7	27.3	26.9	26.6	26.2	25.9		
22				25.8	25.8	25.9	25.8	25.7	25.6	25.5	25.2	24.9	24.6	24.2	23.8	23.5	23.1	22.9		
24					22.9	22.9	22.9	22.8	22.6	22.6	22.5	22.3	21.9	21.6	21.2	21	20.6	20.4		
26					20.4	20.5	20.5	20.4	20.2	20.2	20.1	19.9	19.7	19.4	19.1	18.8	18.5	18.3		
28						18.5	18.4	18.3	18.2	18.1	18	17.9	17.7	17.5	17.2	17	16.7	16.5		
30							16.7	16.6	16.4	16.4	16.3	16.1	16	15.8	15.6	15.4	15.1	15		
32								15.1	14.9	14.9	14.8	14.6	14.5	14.3	14.1	14	13.8	13.6		
34									13.6	13.6	13.5	13.3	13.2	13	12.8	12.7	12.5	12.4		
36									12.4	12.4	12.3	12.2	12	11.8	11.6	11.5	11.3	11.3		
38										11.4	11.3	11.1	11	10.8	10.6	10.5	10.3	10.3		
40											10.4	10.2	10	9.9	9.7	9.6	9.4	9.4		
42												9.4	9.2	9	8.8	8.8	8.6	8.5		
44													8.6	8.5	8.3	8.1	8	7.8	7.8	
46														7.8	7.6	7.4	7.3	7.1	7.1	
48															7	6.8	6.7	6.5	6.5	
50																6.2	6.1	6	5.9	
52																	5.7	5.6	5.4	5.4
54																		5.1	4.9	4.9
56																			4.5	4.5
58																				4
60																				
62																				
64																				
66																				
Reeving	13	12	12	11	10	9	8	7	7	6	6	5	5	5	4	4	4	4	4	

Attention:

1. For tip boom operating mode, the lifting capacity is the main boom lifting capacity of the same radius, which shall not exceed 13.5t.

2. The main boom and the tip boom cannot be used simultaneously if a tip boom is fixed on the main boom.

3. Intermediate tensioners are needed for main booms marked with '*'.

LIFTING PERFORMANCE

Lifting capacity chart (S) (rear counterweight of 72t + central ballast of 10t) Unit: t

Length of main boom (m)																						
Radius(m)	16	19	22	25	28	31	34	37	40	43	46	49	52	55	58	61	64	67	70*	73*	76*	
8									81.1	75.4	70.3											
9								81.3	77	71.5	67	62.1	58.2									
10					78.1	76.3	74.3	72.5	70.7	68.2	63.9	59.6	55.7	52.1	48.4	45.2						
12				62.6	61.8	61.2	60.5	59.4	58	56.9	55.7	54.5	51.3	48.1	44.8	41.7	39.2	36.3	38	36.5	34.5	
14				51.2	50.8	50.4	49.8	49.2	48.7	48.1	47.2	46.3	45.4	44.4	41.6	39.1	36.6	33.6	36.3	35	32	
16				42.7	42.6	42.6	42.2	41.7	41.2	40.8	40.3	39.8	39.3	38.5	37.7	36.5	34.2	31.4	35	33	30.9	
18				36.4	36.4	36.4	36.4	36	35.6	35.3	34.9	34.5	34	33.6	33.1	32.6	31.3	28.6	30.8	30.3	29.7	
20				31.6	31.5	31.6	31.5	31.4	31.2	31	30.6	30.2	29.8	29.4	29	28.7	28.3	26.2	27.4	26.9	26.4	
22				27.7	27.7	27.8	27.7	27.6	27.5	27.4	27.2	26.8	26.4	26.1	25.7	25.4	25	24.2	24.4	24	23.6	
24					24.6	24.7	24.6	24.5	24.4	24.3	24.2	24	23.6	23.3	23	22.7	22.3	22.1	21.7	21.4	21.1	
26					22	22.1	22	21.9	21.8	21.8	21.7	21.5	21.3	21	20.7	20.4	20.1	19.9	19.5	19.2	18.9	
28						19.9	19.9	19.8	19.6	19.6	19.5	19.3	19.2	19	18.7	18.5	18.2	18	17.6	17.3	17	
30							18	17.9	17.8	17.8	17.6	17.5	17.3	17.1	16.9	16.8	16.5	16.3	16	15.7	15.4	
32								16.3	16.2	16.2	16	15.9	15.7	15.5	15.3	15.3	15	14.9	14.6	14.3	14	
34									14.8	14.8	14.7	14.5	14.3	14.1	14	13.9	13.7	13.6	13.3	13.1	12.8	
36									13.5	13.5	13.4	13.3	13.1	12.9	12.7	12.6	12.4	12.4	12.2	12	11.7	
38										12.4	12.3	12.2	12	11.8	11.6	11.6	11.4	11.3	11.1	11	10.7	
40											11.3	11.2	11	10.8	10.7	10.6	10.4	10.4	10.1	10	9.8	
42												10.3	10.1	10	9.8	9.7	9.5	9.5	9.3	9.1	8.9	
44												9.5	9.3	9.2	9	8.9	8.7	8.7	8.4	8.3	8.1	
46													8.6	8.4	8.3	8.2	8	8	7.7	7.6	7.4	
48														7.8	7.6	7.5	7.3	7.3	7.1	7	6.8	
50															7	6.9	6.7	6.7	6.5	6.4	6.1	
52																6.4	6.4	6.2	6.1	5.9	5.8	5.6
54																	5.8	5.6	5.6	5.4	5.3	5.1
56																		5.2	5.1	4.9	4.8	4.6
58																			4.7	4.5	4.4	4.2
60																				4.1	4	3.7
62																						
64																						
66																						
Reeving				11	10	9	8	8	7	6	6	5	5	5	4	4	4	4	3	3	3	

Attention:

1. For tip boom operating mode, the lifting capacity is the main boom lifting capacity of the same radius, which shall not exceed 13.5t.

2. The main boom and the tip boom cannot be used simultaneously if a tip boom is fixed on the main boom.

3. Intermediate tensioners are needed for main booms marked with “*”.

Lifting capacity chart (S) (rear counterweight of 72t + central ballast of 20t)

Unit: t

Length of main boom (m)																								
Radius(m)	16	19	22	25	28	31	34	37	40	43	46	49	52	55	58	61	64	67	70*	73*	76*			
7								92.8																
8				106	104	101	94.1	86.5	81.1	75.4	70.3													
9			93.8	92.3	90.8	88.4	86	81.6	77	71.5	67	62.1	58.2											
10			81.3	80.1	79	77.9	76.6	74.6	72.8	68.2	63.9	59.6	55.7	52.1	48.4	45.2								
12			64.2	63.3	62.4	61.7	60.9	60.1	59.3	58.6	57.4	54.5	51.3	48.1	44.8	41.7	39.2	36.3	38	36.5	34.5			
14			52.1	52	51.4	50.9	50.3	49.7	49	48.5	47.9	47.3	46.6	44.6	41.6	39.1	36.6	33.6	36.3	35	32			
16			43.6	43.4	43.3	43.2	42.7	42.1	41.6	41.2	40.6	40.1	39.6	39.1	38.5	36.5	34.2	31.4	34.8	33	30.9			
18			37.3	37.2	37	37	36.8	36.5	36	35.6	35.2	34.7	34.3	33.8	33.3	33	31.3	28.6	30.9	30.3	29.7			
20			32.6	32.4	32.2	32.2	32	31.8	31.6	31.3	30.9	30.5	30.1	29.7	29.2	28.9	28.4	26.2	27.7	27.4	26.9			
22				28.6	28.4	28.4	28.2	28.1	27.9	27.8	27.5	27.1	26.7	26.3	25.9	25.6	25.2	24.2	24.5	24.2	23.8			
24					25.3	25.3	25.1	25	24.8	24.7	24.5	24.3	23.9	23.6	23.2	22.9	22.5	22.3	21.9	21.6	21.2			
26					22.8	22.7	22.6	22.4	22.2	22.1	22	21.8	21.6	21.2	20.9	20.6	20.3	20	19.7	19.4	19			
28						20.6	20.5	20.3	20.1	20	19.8	19.6	19.4	19.2	18.9	18.7	18.4	18.2	17.8	17.5	17.2			
30							18.6	18.4	18.2	18.2	18	17.8	17.6	17.4	17.2	17	16.7	16.5	16.2	15.9	15.6			
32								16.8	16.6	16.6	16.4	16.2	16	15.8	15.6	15.5	15.2	15.1	14.8	14.5	14.2			
34									15.3	15.2	15	14.8	14.6	14.4	14.2	14.1	13.9	13.8	13.5	13.3	13			
36										14.1	14	13.8	13.6	13.4	13.2	13	12.9	12.7	12.6	12.4	12.2	11.9		
38											12.9	12.7	12.5	12.3	12.1	11.9	11.8	11.6	11.5	11.3	11.2	10.9		
40												11.8	11.6	11.4	11.2	10.9	10.8	10.6	10.6	10.4	10.2	10		
42													10.7	10.5	10.3	10.1	10	9.7	9.7	9.5	9.3	9.1		
44													9.9	9.7	9.5	9.3	9.2	9	8.9	8.7	8.6	8.3		
46														9	8.8	8.6	8.5	8.2	8.2	8	7.8	7.6		
48															8.1	7.9	7.8	7.6	7.5	7.3	7.2	7		
50																7.3	7.2	7	6.9	6.7	6.6	6.4		
52																	6.8	6.7	6.4	6.4	6.2	6		
54																		6.2	5.9	5.9	5.7	5.5	5.3	
56																			5.5	5.4	5.2	5.1	4.8	
58																				4.8	4.8	4.6	4.4	
60																					4.4	4.2	4	
62																						4	3.8	3.6
64																							3.5	3.3
66																								2.9
Reeving			12	11	10	9	8	8	7	6	6	5	5	5	5	4	4	4	4	3	3	3	3	

Attention:

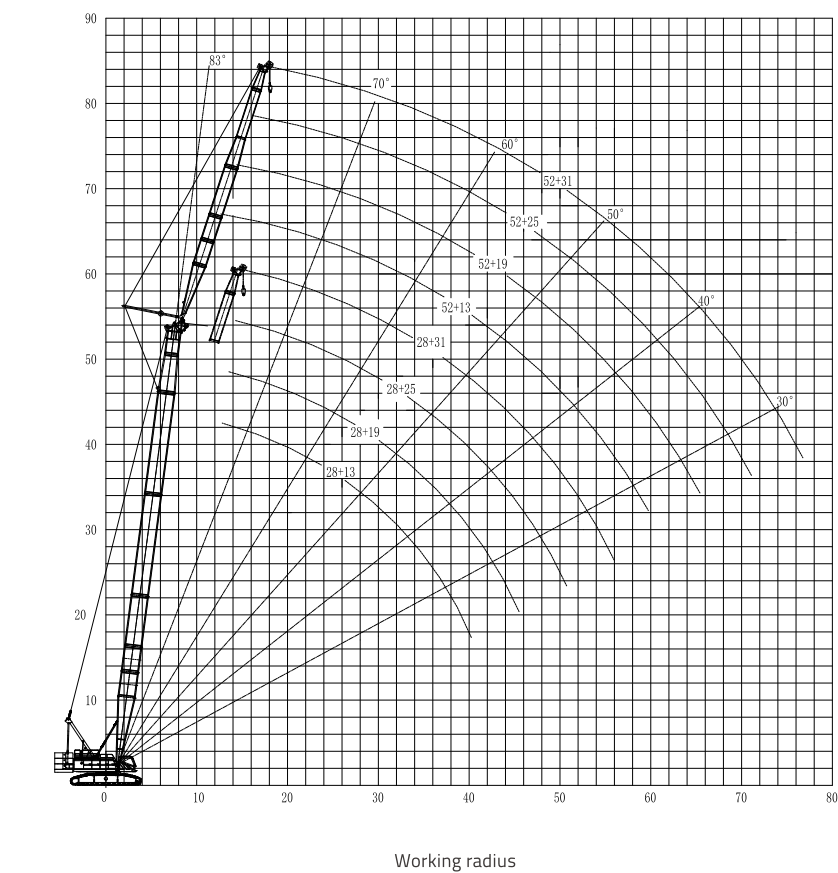
1. For tip boom operating mode, the lifting capacity is the main boom lifting capacity of the same radius, which shall not exceed 13.5t.

2. The main boom and the tip boom cannot be used simultaneously if a tip boom is fixed on the main boom.

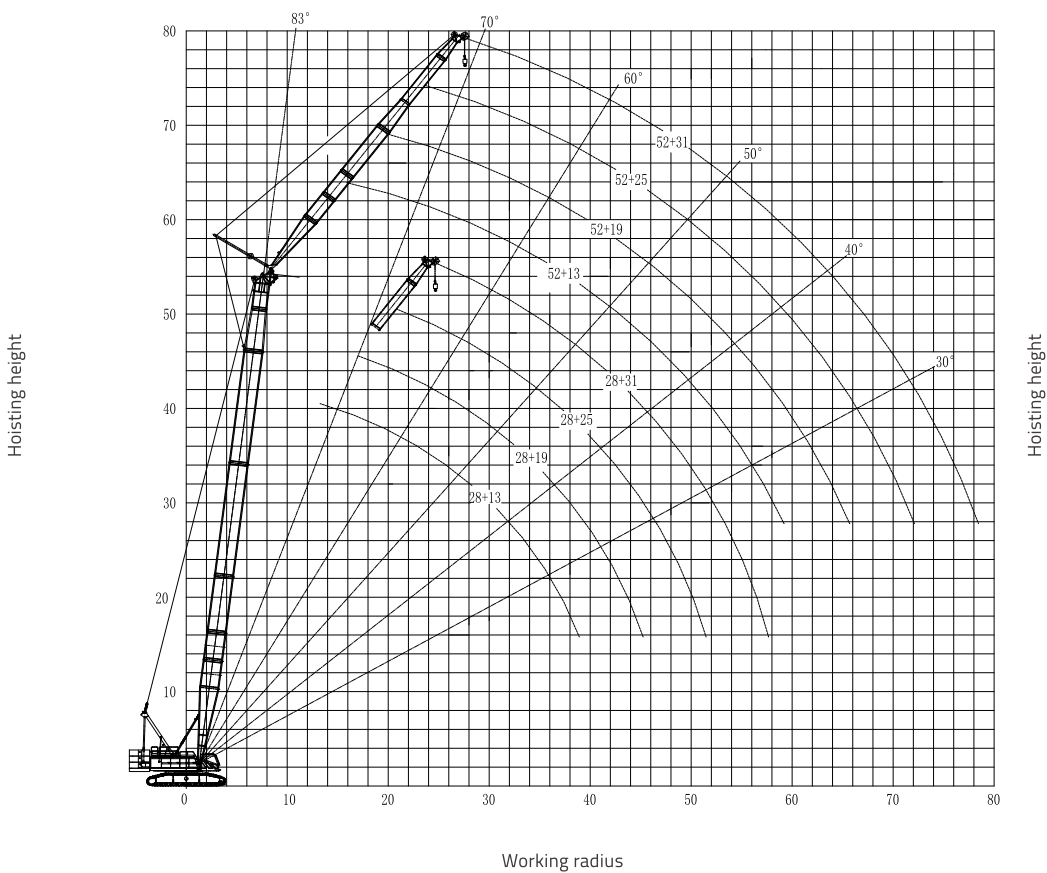
3. Intermediate tensioners are needed for main booms marked with '*'.

LIFTING PERFORMANCE

Operating mode of main boom + fixed jib Hoisting height curves (SF, 10°)



Unit: m Operating mode of main boom + fixed jib Hoisting height curves (SF, 30°)



LIFTING PERFORMANCE

Lifting capacity chart (SF-1) (rear counterweight of 72t + central ballast of 20t)

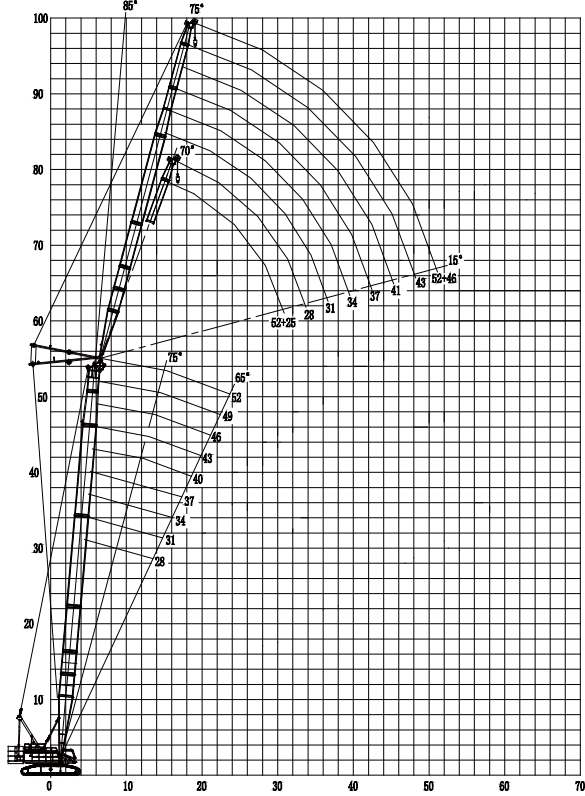
Radius (m)	Fixed jib length: 13m Included angle between main boom and jib: 10°								
Main boom (m)	28	31	34	37	40	43	46	49	52
12	46.1								
14	42.2	42.3	42.5	42.6					
16	39.1	39.2	39.4	39.8	39.9	39.7	39.2	38.5	
18	36.4	36	35.6	35.1	34.7	34.3	33.9	33.5	33
20	32	31.6	31.2	30.8	30.5	30.1	29.7	29.3	28.9
22	28.3	28.1	27.8	27.4	27	26.7	26.3	26	25.6
24	25.1	25	24.9	24.5	24.2	23.9	23.5	23.2	22.9
26	22.5	22.4	22.2	22.1	21.8	21.5	21.2	20.9	20.6
28	20.3	20.2	20.1	19.9	19.7	19.5	19.2	18.9	18.6
30	18.5	18.4	18.2	18	17.8	17.7	17.5	17.2	16.9
32	16.9	16.7	16.6	16.4	16.2	16	15.9	15.7	15.4
34	15.5	15.3	15.2	14.9	14.8	14.6	14.5	14.3	14.1
36	14.2	14.1	13.9	13.7	13.5	13.4	13.2	13	12.8
38	13.1	13	12.8	12.6	12.4	12.3	12.1	11.9	11.7
40		12	11.8	11.6	11.4	11.3	11.1	10.9	10.7
42			10.9	10.7	10.5	10.4	10.2	10	9.8
44			10.1	9.9	9.7	9.6	9.4	9.2	9
46				9.2	9	8.9	8.7	8.5	8.3
48					8.3	8.2	8	7.8	7.6
50						7.6	7.4	7.2	7
52						7	6.8	6.6	6.4
54							6.3	6.1	5.9
56								5.6	5.4
58									5
Reeving	4	4	4	4	3	3	3	3	3

Unit: t Lifting capacity chart (SF-1) (rear counterweight of 72t + central ballast of 20t)

Radius (m)	Fixed jib length: 31m Included angle between main boom and jib: 10°								
Main boom (m)	28	31	34	37	40	43	46	49	52
20	20.7	20.6	20.5	20.5					
22	19.2	19.1	19	19.1	19.2	19.3	18.8	18.5	
24	17.9	17.8	17.8	17.8	17.9	18.1	17.8	17.5	17.2
26	16.8	16.7	16.7	16.8	16.9	17	16.7	16.5	16.2
28	15.7	15.7	15.7	15.8	15.9	16	15.9	15.6	15.3
30	14.8	14.8	14.8	14.9	15	15.2	15	14.8	14.6
32	14	14	14	14.2	14.3	14.4	14.3	14.1	13.9
34	13.3	13.3	13.3	13.4	13.5	13.6	13.3	13	12.7
36	12.5	12.6	12.6	12.8	12.6	12.4	12.2	11.9	11.6
38	11.9	12	11.9	11.7	11.5	11.3	11.1	10.9	10.6
40	11.2	11.1	10.9	10.7	10.5	10.3	10.1	10	9.7
42	10.3	10.2	10	9.8	9.6	9.4	9.2	9	8.9
44	9.5	9.4	9.2	9	8.8	8.6	8.4	8.2	8
46	8.8	8.6	8.4	8.2	8	7.8	7.7	7.5	7.3
48	8.1	7.9	7.7	7.5	7.3	7.2	7	6.8	6.6
50	7.5	7.3	7.1	6.9	6.7	6.5	6.4	6.2	6
52	6.9	6.7	6.6	6.3	6.1	6	5.8	5.6	5.4
54	6.4	6.2	6	5.8	5.6	5.4	5.3	5	4.8
56	5.9	5.7	5.5	5.3	5.1	4.9	4.8	4.5	4.3
58		5.3	5.1	4.9	4.6	4.5	4.3	4.1	3.9
60			4.6	4.4	4.2	4.1	3.9	3.7	3.5
62				4	3.8	3.7	3.5	3.3	3
64					3.4	3.3	3.1	2.9	2.7
Reeving	2	2	2	2	2	2	2	2	2

LIFTING PERFORMANCE

Operating mode of main boom + luffing jib Hoisting height curves (SW-1)



Working radius

Hoisting height

Unit: m

Lifting capacity chart (SW-1) (rear counterweight of 72t + central ballast of 20t)

Radius (m)	Main boom length:28m Main boom angle:85°							
Luffing jib:	25	28	31	34	37	40	43	46
12	46.8							
14	46.5	41.6	36.3	31.6				
16	42	41	36.3	31.6	28.6	25.5		
18	36.7	36.4	35.9	31.6	28.6	25.5	23	20.1
20	32.7	32.3	31.9	31.2	28.6	25.5	23	20.1
22	29.4	29.1	28.7	28	27.7	25.5	23	20
24	26.4	26.4	26	25.4	25.1	24.6	22	18.8
26	22.7	23.9	23.8	23.3	22.9	22.5	19.6	16.6
28	17.8	20.8	21.7	21.4	21	20.6	17.6	14.8
30		17.9	19.2	19.7	19.5	19	16	13.1
32			16.8	17.5	17.8	17.3	14.5	11.8
34			13.9	15.6	16.1	16	13.1	10.5
36				13.6	14.4	14.8	12	9.4
38					12.8	13.3	10.9	8.3
40					10.8	12	9.9	7.4
42						10.5	9.1	6.6
44							8.3	5.9
46							7.5	5.2
48								4.5
Reeving	4	4	3	3	3	2	2	2

Unit: t

LIFTING PERFORMANCE

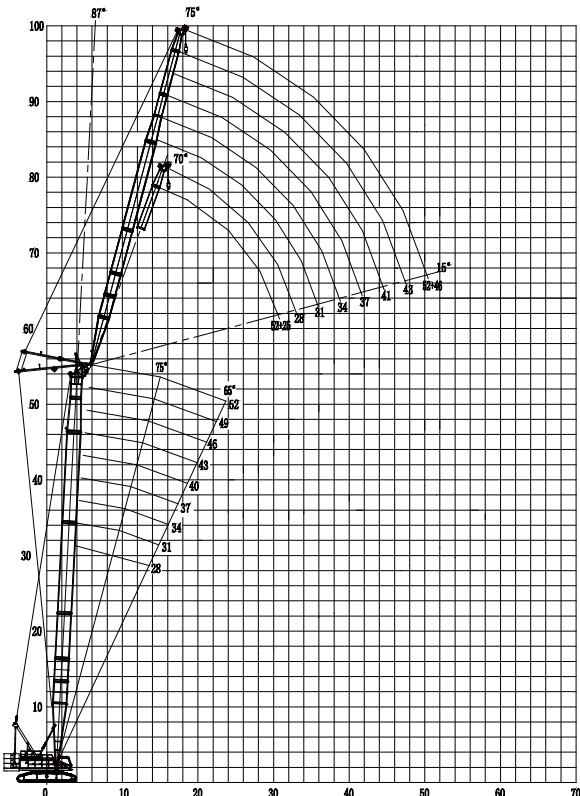
Lifting capacity chart (SW-1) (rear counterweight of 72t + central ballast of 20t)

Radius (m)	Main boom length:52m Main boom angle:85°							
Luffing jib:	25	28	31	34	37	40	43	46
18	26.8	24.9	22.7	20.8	18.5	16.9		
20	24.5	24.2	22.3	20.5	18.3	16.8	15.4	14.2
22	22.4	22.3	21.8	20.2	18.1	16.6	15.3	14.1
24	20.5	20.5	20.2	19.6	17.7	16.3	15.1	13.9
26	18.9	18.9	18.7	18.5	17.2	16	14.8	13.7
28	15.2	17.5	17.3	17.2	16.4	15.5	14.5	13.5
30	10.2	15.3	15.9	15.8	15.2	14.4	13.8	13.1
32		11	14.8	14.7	14.1	13.2	12.8	12
34			11.6	13.5	13	12.3	11.7	10.7
36			8.1	11.9	12	11.4	10.9	9.6
38				8.7	11.1	10.5	10.1	8.6
40					8.9	9.7	9.2	7.6
42					6.5	8.9	8.5	6.8
44						6.9	7.7	6.1
46							7.1	5.4
48							5.4	4.8
50								4.2
Reeving	3	2	2	2	2	2	2	2

Attention:
Lifting capacities of luffing jib in above tables are reference values. Refer to the Lifting Capacity Charts for specific data.

Unit: t

Operating mode of main boom + foldable luffing jib Hoisting height curves (SW-2)



Working radius

Hoisting height

Unit: m

LIFTING PERFORMANCE

Lifting capacity chart (SW-2) (rear counterweight of 72t + central ballast of 20t) Unit: t

Main boom (m)	28			31						34								
Jib (m)	25			25		28		25			28			31				
Radius(m)	Main boom angle (°)																	
	87°	75°	65°	87°	75°	65°	87°	75°	65°	87°	75°	65°	87°	75°	65°	87°	75°	65°
12																		
14	30			30			30										29.2	
16	30			30			30			30			29.2			29.2		
18	30			30			30			30			29.2			29.2		
20	30			30			30			30			29.2			29.2		
22	27.9	25.3		27.7	24.8		27.4			27.5			26.9			26.5		
24	25.4	22.9		25.2	22.4		24.9	22.1		25	21.9		24.4	21.4		24		
26	22.6	20.9		22.6	20.5		22.8	20.2		21.2	20		22.4	19.6		22	19.2	
28	17.9	19.2		18.9	18.9		21	18.6		19.8	18.5		20.2	18		20.3	17.6	
30		17.5	16		17.3		18.7	17.2			17		19.3	16.6		18.4	16.3	
32		16.1	14.7		15.9	14.3		15.8			15.7	14		15.5		15.9	15.2	
34		14.9	13.7		14.7	13.3		14.6	13.2		14.5	12.9		14.3	12.7	10.6	14	
36			12.7			12.3		13.6	12.2			12		13.2	11.7		13	11.4
38			11.8			11.5			11.4			11.1		12.4	10.9		12.2	10.6
40						10.7			10.6			10.4			10.2		11.3	9.9
42									9.9						9.5			9.2
44															8.9			8.7
46																		8.2
48																		
Reeving	3			3			3			3			3			3		

Lifting capacity chart (SW-2) (rear counterweight of 72t + central ballast of 20t) Unit: t

Main boom (m)	52																	
Jib (m)	25			28			31			34			37			41		
Radius(m)	Main boom angle (°)																	
	87°	75°	65°	87°	75°	65°	87°	75°	65°	87°	75°	65°	87°	75°	65°	87°	75°	65°
14							21											
16							21			19.3			17.1					
18	23.3			22.9			20.9			19.1			17			15.3		
20	21.2			21.1			20.6			18.9			16.7			15.3		
22	19.3			19.3			19			18.2			16.5			15.2		
24	17.7			17.7			17.5			17.3			15.8			14.9		
26	14.8			16.2			16			15.8			14.5			14.3		
28	12.3	15.3		14.6			14.7			14.6			13.4			13.1		
30		14.1		10.9	13.8		13.5	13.4		13.4			12.3			12		
32		13.1		9.4	12.9		11.2	12.5		12.3	12.2		11.3			11.1		
34		12.3			12		8.2	11.7		11.1	11.3		10.4	10.7		10.2	10.3	
36		11.5			11.2			10.9		8.5	10.7		9.6	10		9.3	9.6	
38		10.8			10.6			10.3		6.1	10		8.5	9.3		8.6	8.9	
40		10.1	7.8		10			9.7			9.4		6.4	8.8		7.8	8.4	
42			7.3		9.4	7.1		9.1			8.8			8.3		6.7	7.9	
44			6.8			6.6		8.5	6.3		8.3			7.8			7.5	
46			6.3			6.2		8	5.9		7.9	5.7		7.4			7	
48			5.9			5.9			5.6		7.4	5.3		7	4.8		6.6	
50						5.5			5.2			5		6.5	4.6		6.2	4.2
52									4.9			4.7			4.3		5.9	3.9
54									4.5			4.4			4		5.5	3.6
Reeving	3			2			2			2			2			2		

LIFTING PERFORMANCE

Lifting capacity chart (SW-2) (rear counterweight of 72t + central ballast of 20t) Unit: t

Main boom (m)	52																	
Jib (m)	31			34			37			40			43			46		
Radius(m)	Main boom angle (°)																	
	87°	75°	65°	87°	75°	65°	87°	75°	65°	87°	75°	65°	87°	75°	65°	87°	75°	65°
56												4.1			3.7			3.4
58															3.4			3.2
60															3.3			3
62																		
Reeving	2			2			2			2			2			2		

Main boom (m)	52																	
Jib (m)	43			46														
Radius(m)	Main boom angle (°)																	
	87°	75°	65°	87°	75°	65°	87°	75°	65°	87°	75°	65°	87°	75°	65°	87°	75°	65°
18	14.1			12.9														
20	14.1			12.9														
22	14			12.9														
24	13.8			12.7														
26	13.6			12.5														
28	12.7			12.3														
30	11.6			11.3														
32	10.6			10.3														
34	9.7			9.4														
36	8.9	8.9		8.6														
38	8.1	8.4		7.8	7.8													
40	7.4	7.8		7.1	7.4													
42	6.7	7.3		6.2	6.8													
44	6	6.9		5.6	6.4													
46	5.2	6.4		4.9	6													
48		6.1		4.3	5.6													
50		5.7	3.6		5.3													
52		5.3	3.4		4.9	2.9												
54		4.9	3.1		4.6	2.6												
56		4.7	2.8		4.3	2.4												
58			2.6		4	2.1												
60			2.4		3.6	2												
62																		
Reeving	2			2														

Attention:
Lifting capacities of luffing jib in above tables are reference values. Refer to the Lifting Capacity Charts for specific data