

100 ton CAPACITY ZCC1000V



ZOOMLION

VISION CREATES FUTURE

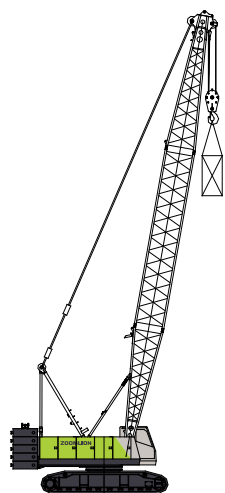
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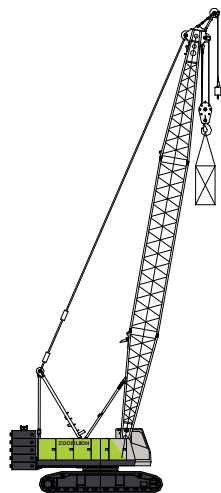


BOOM COMBINATION

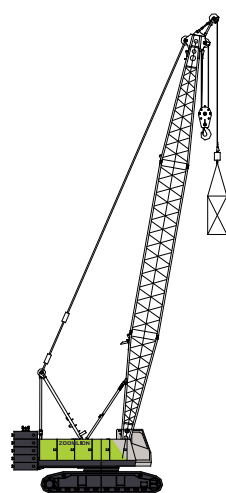
Code	Operating mode	Boom combination
S	Main boom	13m ~ 64m
SH-1	Main boom + tip boom (main hook)	13m ~ 61m
SH-2	Main boom + tip boom (auxiliary hook)	13m ~ 61m
SF-1	Main boom + fixed jib(auxiliary hook, without main hook)	(31m ~ 52m) + (7m ~ 19m)
SF-2	Main boom + fixed jib(auxiliary hook, with main hook)	(31m ~ 52m) + (7m ~ 19m)
SF-3	Main boom + fixed jib (main hook)	(31m ~ 52m) + (7m ~ 19m)



S



SH-1



SH-2



SF-1



SF-2

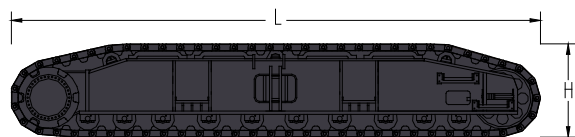
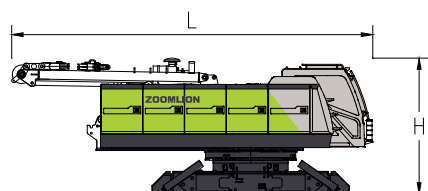
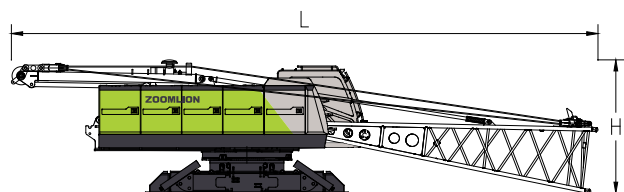
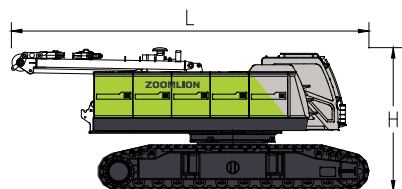
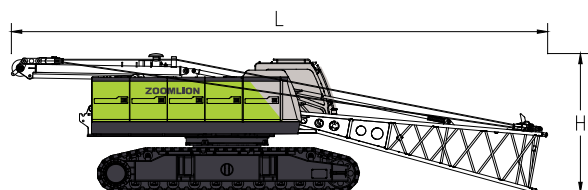


SF-3

MAJOR TECHNICAL PARAMETERS

Item	Unit	Values	Notes
Max. lifting moment	t×m	425	
Max. lifting capacity	t	100	
Max. lifting capacity of fixed jib	t	12	
Main boom length	m	13~64	
Fixed jib length	m	7~19	
Max. length of main boom + fixed jib	m	52+19	
Main boom angle	°	30~80	
Fixed jib angle	°	15, 30	
Main hoisting winch	m/min	0~142	
Derricking winch	m/min	0~76	
Slewing speed	rpm	0~2.4	
Traveling speed	km/h	0~1.1	
Gradeability	%	30	
Dead weight of the whole crane	t	86.9	Basic boom with hook on
Counterweight	t	34.5	
Overall dimensions L×W×H	mm	13300×5100(3400)×3400	With A-frame and pivot section
Model		WP7G270E301	
Engine	Rated power/rotational speed	kW/rpm	199/2000
	Max. output torque /rotational speed	Nm/rpm	1200/(1200~1500)
	Emission standard	/	CHINA III for non-road mobile machinery
Distance between two tracks × contact length of track × width of track pad	mm	2600×5440×800	Crawler carrier in
	mm	4300×5440×800	Crawler carrier out
Ground pressure	MPa	0.098	

TRANSPORTATION AND WEIGHTS



Basic machine (with pivot section and tracks)	1 piece
Length(L)	13000 mm
Width (W)	3400 mm
Height (H)	3400 mm
Weight	40400 kg

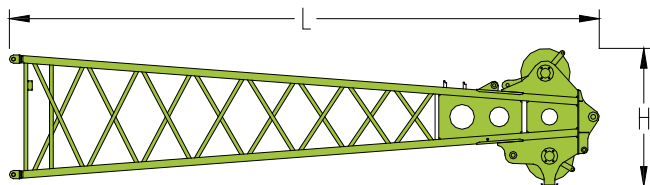
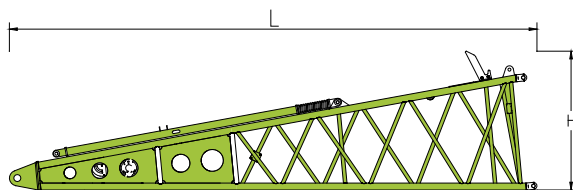
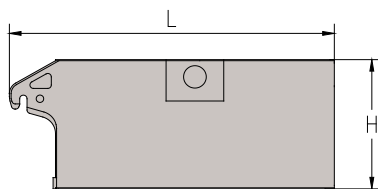
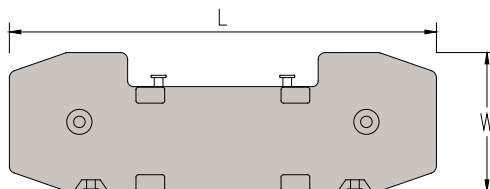
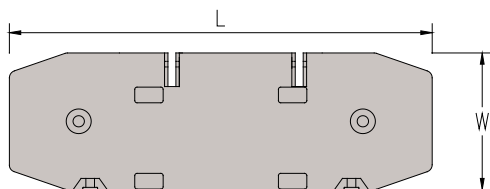
Basic machine (with tracks but without pivot section)	1 piece*
Length(L)	8430 mm
Width (W)	3400 mm
Height (H)	3400 mm
Weight	39250 kg

Basic machine (with pivot section but without tracks)	1 piece*
Length(L)	13000 mm
Width (W)	3000 mm
Height (H)	2980 mm
Weight	25070 kg

Basic machine (without pivot section and tracks)	1 piece*
Length(L)	7900 mm
Width (W)	3000 mm
Height (H)	2980 mm
Weight	23920 kg

Crawler carrier assy	2 pieces
Length(L)	6340 mm
Width (W)	1060 mm
Height (H)	1110 mm
Weight	8580 kg

TRANSPORTATION AND WEIGHTS



Counterweight base	1 piece
Length (L)	3720 mm
Width (W)	1220 mm
Height (H)	320 mm
Weight	4500 kg

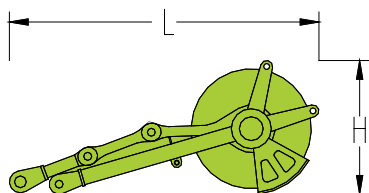
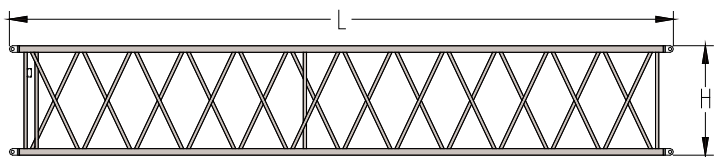
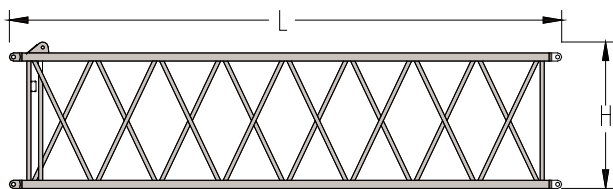
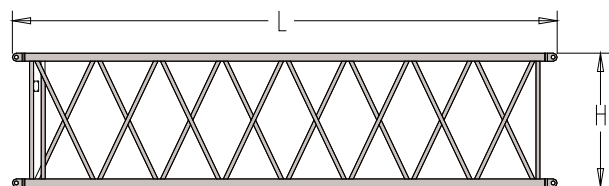
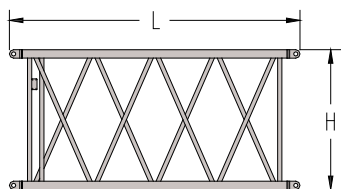
Counterweight plate	5 pieces
Length (L)	3720 mm
Width (W)	1220 mm
Height (H)	400 mm
Weight	6000 kg

Central ballast	2 pieces
Length (L)	1860 mm
Width (W)	730 mm
Height (H)	750 mm
Weight	4500 kg

Main boom pivot section	1 piece*
Length (L)	6685 mm
Width (W)	1690 mm
Height (H)	1790 mm
Weight	1150 kg

Main boom head	1 piece
Length (L)	7130 mm
Width (W)	1690 mm
Height (H)	1675 mm
Weight	1250 kg

TRANSPORTATION AND WEIGHTS



Main boom intermediate section of 3m	1 piece*
Length(L)	3090 mm
Width (W)	1690 mm
Height (H)	1500 mm
Weight	310 kg

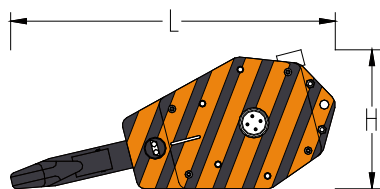
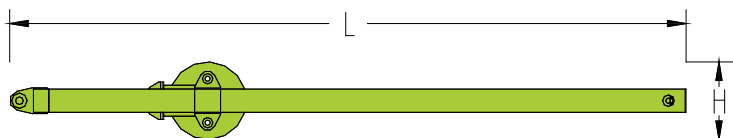
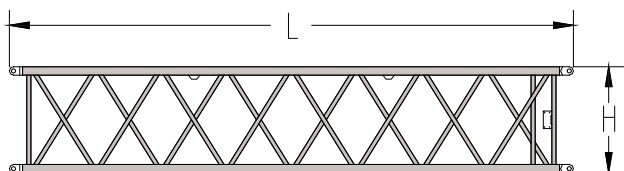
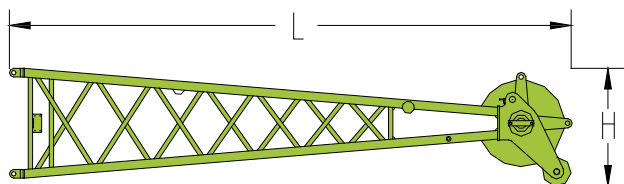
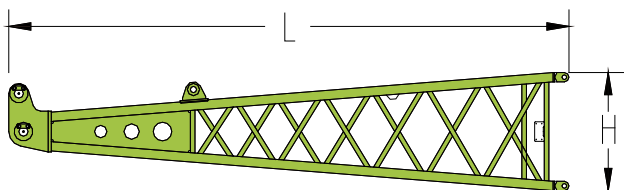
Main boom intermediate section of 6m	1 piece*
Length(L)	6090 mm
Width (W)	1690 mm
Height (H)	1500 mm
Weight	540 kg

Main boom intermediate section A of 6m	1 piece*
Length(L)	6090 mm
Width (W)	1690 mm
Height (H)	1610 mm
Weight	545 kg

Main boom intermediate section of 9m	4 pieces*
Length(L)	9090 mm
Width (W)	1690 mm
Height (H)	1500 mm
Weight	775 kg

Tip boom	1 piece
Length(L)	1550 mm
Width (W)	700 mm
Height (H)	670 mm
Weight	205 kg

TRANSPORTATION AND WEIGHTS



Fixed jib pivot section	1 piece*
Length (L)	3630 mm
Width (W)	960 mm
Height (H)	760 mm
Weight	190 kg

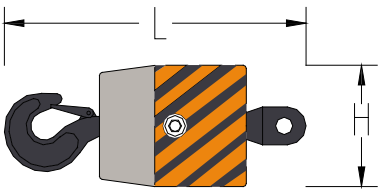
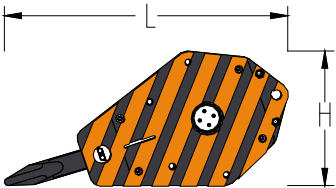
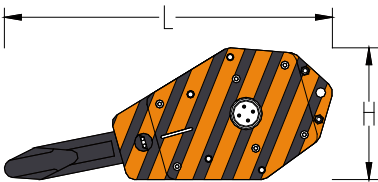
Fixed jib head	1 piece*
Length (L)	3875 mm
Width (W)	960 mm
Height (H)	760 mm
Weight	280 kg

Fixed jib intermediate section of 4m	3 pieces*
Length (L)	4060 mm
Width (W)	960 mm
Height (H)	760 mm
Weight	165 kg

FA-frame	1 piece*
Length (L)	5210 mm
Width (W)	640 mm
Height (H)	600 mm
Weight	445 kg

Load hook for 100t	1 piece*
Length (L)	1925 mm
Width (W)	845 mm
Height (H)	820 mm
Weight	1630 kg

TRANSPORTATION AND WEIGHTS



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.

Load hook for 80t	1 piece*
Length(L)	1905 mm
Width (W)	660 mm
Height (H)	730 mm
Weight	1153 kg

Load hook for 30t	1 piece*
Length(L)	1550 mm
Width (W)	550 mm
Height (H)	740 mm
Weight	763 kg

Load hook for 12t	1 piece*
Length(L)	965 mm
Width (W)	385 mm
Height (H)	385 mm
Weight	470 kg

TECHNICAL DESCRIPTION



Engine

model: Weichai WP7G270E301.
Type: in-line 6-cylinder, intercooled and supercharged diesel engine.
Displacement:7.47L.
Rated power: 199kW/2000r/min.
Maximum torque: 1200N.m/(1200~1500)r/min.
Emission standard: CHINA III for non-road mobile machinery.
Volume of fuel oil tank:400L.



Slewing mechanism

The slewing mechanism is driven by an axial constant plunger hydraulic motor through a planetary reducer. Small gears on the output shaft drive the rotation of the gear ring of the slewing ring, which then drive the full slewing of 360°. Lateral tension on the boom can be effectively reduced by free slewing.



Hydraulic system

Hydraulic-pilot and proportionally controlled series hydraulic system.
High-speed hydraulic motor drives planetary reducer to realize various operations.
The hydraulic system is highly efficient, energy-saving, safe and reliable, which provides smooth compound movements with no shock.
Heat dissipation power of oil cooler:40kW.
Volume of hydraulic oil tank:520L.



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 drum with a double-rope groove guarantees that rope of multiple layers will not intertwine together. Free-fall hook is optional for both H1 and H2. The single rope tension reaches 12t .

	H1	H2
Rated single rope tension	12t	12t
Wire rope diameter	26mm	26mm
Wire rope length	240m	180m
Single rope speed	142m/min	132m/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 mechanism
Rated single rope tension	6.5t
Wire rope diameter	20mm
Wire rope length	155m
Single rope speed	76m/min

TECHNICAL DESCRIPTION

Electrical system

DC of 24V, negative ground, two storage batteries of 200AH.
Components of electrical system: power, engine system, load moment limiter, illumination system, safety control system, etc. Data communication between controller and controlled elements is provided through CAN bus.
The crane is equipped with a global position system (GPS/GPRS).

Operator's cab

All-new operator's cab with artistic interior design; work light; rear-view mirrors; broad vision.
A cold/warm air conditioner; a radio; a color display of 10.4".
Control levers and buttons are designed according to the ergonomics.

Load hook

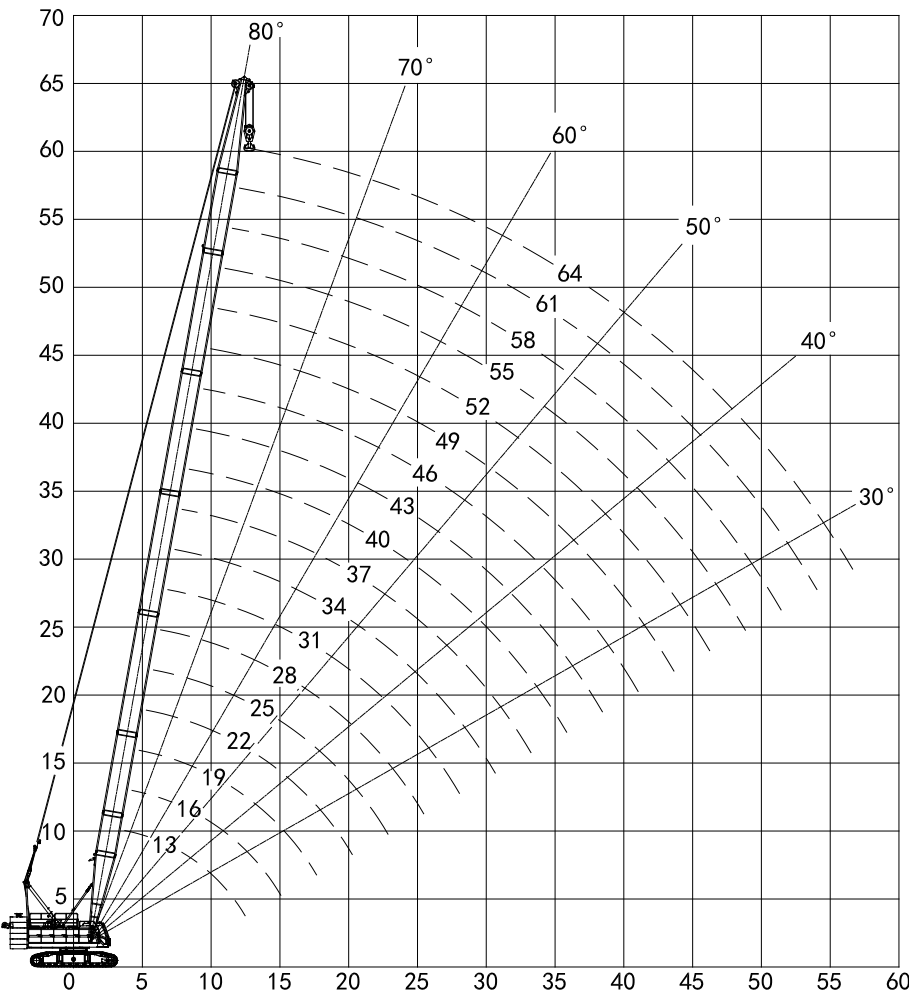
Four types of load hooks are available:

Specification of hook	Lifting capacity (Kg)	Number of pulleys
100 t	1630	5
80 t	1153	3
30 t	763	1
12 t	470	0

LIFTING PERFORMANCE

Main boom operating mode

Curves of hoisting height (S) Unit: m



LIFTING PERFORMANCE

Curves of hoisting height (S)

Counterweight: 34.5t Central ballast: 9t

Unit: t

Radius (m)	Main boom length: 13-64m																	
	13	16	19	22	25	28	31	34	37	40	43	46	49	52	55	58	61	64
4	100																	
5	85	85																
6	67.4	67.4	65.2	63.9														
7	53.6	53.6	52.8	52	50.7	49.3												
8	43.8	43.8	43.8	43.8	43	42.4	41.6	40.3										
9	37.4	37.4	37.4	37.4	36.9	36.1	36.1	34.7	34.4	33.9								
10	32.6	32.1	32.1	32.1	32.1	32.1	31.3	31	30.5	30	29.2	28.4						
12	25.4	25.4	25.4	24.9	24.9	24.9	24.9	24.9	24.4	24.1	23.6	23.1	22.8	22.3	22	20.3		
14		21	20.7	20.7	20.7	20.2	20.2	20.2	20.2	19.8	19.3	19.3	18.8	18.5	18	17.5	17.2	16.1
16			17.5	17.2	17.2	17.2	17	16.7	16.7	16.7	16.7	16.4	15.9	15.7	15.4	15.1	14.6	14.3
18				14.9	14.9	14.6	14.6	14.6	14.3	14.3	14.1	14.1	13.8	13.6	13.3	13	12.8	12.5
20				13	13	12.8	12.8	12.5	12.5	12.5	12.3	12	12	12	11.6	11.3	11.1	10.8
22					11.5	11.3	11.1	11.1	10.8	10.8	10.6	10.6	10.3	10.3	10.1	9.8	9.8	9.5
24						10.1	9.8	9.8	9.8	9.5	9.5	9.3	9.3	9	9	8.8	8.5	8.4
26							9	8.8	8.7	8.5	8.5	8.2	8.2	8	8	7.7	7.7	7.4
28							8	8	7.9	7.7	7.6	7.4	7.4	7.2	7.1	6.9	6.9	6.7
30								7.2	7.1	6.9	6.9	6.7	6.6	6.4	6.4	6.3	6.1	5.9
32									6.4	6.4	6.3	6.1	5.9	5.9	5.7	5.6	5.5	5.3
34										5.8	5.6	5.5	5.4	5.3	5.1	4.9	4.9	4.8
36											5.3	5.1	4.9	4.9	4.8	4.6	4.4	4.3
38												4.7	4.6	4.4	4.3	4.1	3.9	3.8
40													4.1	4.1	3.9	3.8	3.6	3.4
42														3.6	3.6	3.4	3.3	3.1
44															3.3	3.1	2.9	2.8
46															2.9	2.8	2.6	2.6
48																2.6	2.4	2.2
50																	2.1	2
52																		1.8
54																	1.6	1.4
56																		1.2

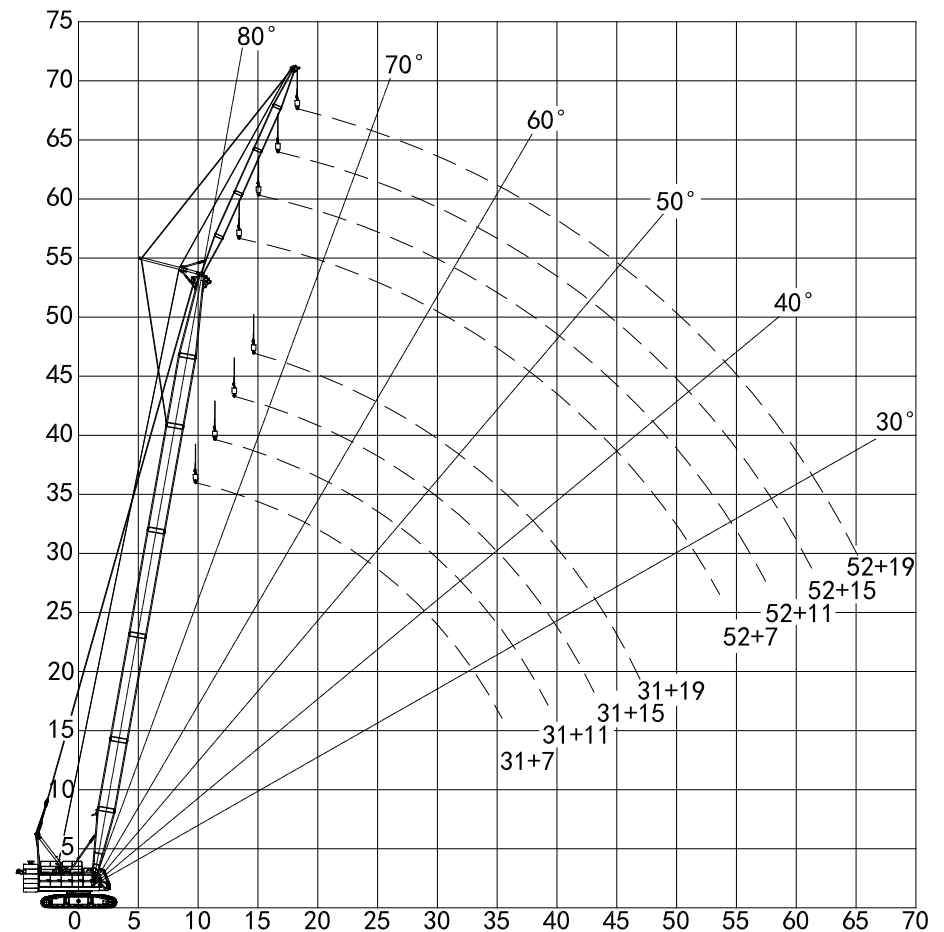
Attention:

- ① Values in lifting capacity charts include the weight of sling and wire rope. The actual weight of load should be less than the value.
- ② Values in lifting capacity charts are provided on the basis of the fact that the ground is solid and flat and the load is freely suspended.

Fixed jib operating mode

Curves of hoisting height (SF-1, SF-2), 15°

Unit: m

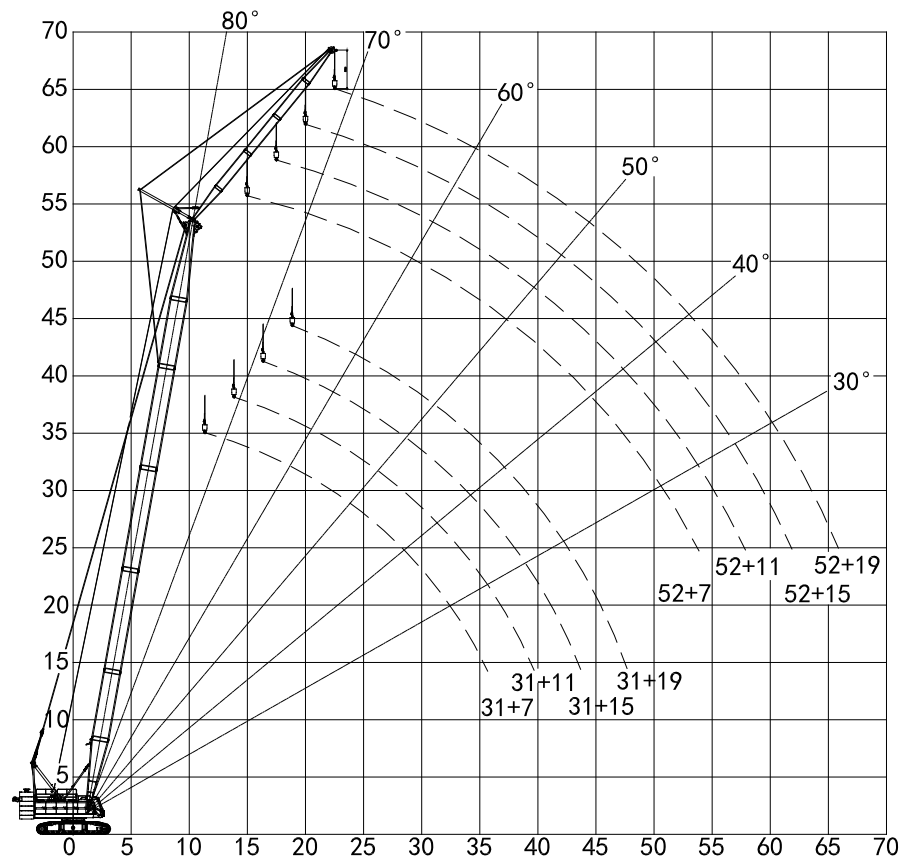


LIFTING PERFORMANCE

Fixed jib operating mode

Curves of hoisting height (SF-1, SF-2), 30°

Unit: m



Lifting capacity chart (SF-1, 1/2)

Counterweight: 34.5t Central ballast: 9t

Unit: t

Main boom	34								40							
Jib	7		11		15		19		7		11		15		19	
Angle	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°
11	12															
12	12	12	12						12							
14	12	12	12		12				12	12	12					
16	12	12	12	12	12		12		12	12	12	12	12			
18	12	12	12	11.9	12	9.1	11		12	12	12	12	12	9.3	11.6	
20	12	12	12	11.4	12	8.7	10.3	7	12	12	12	11.9	12	9	10.9	
22	10.7	10.9	10.9	10.9	11.2	8.3	9.7	6.7	10.5	10.7	10.7	10.9	10.9	8.6	10.2	6.9
24	9.6	9.6	9.6	9.8	9.8	8	9.1	6.4	9.2	9.4	9.4	9.6	9.6	8.3	9.6	6.6
26	8.5	8.5	8.7	8.8	8.8	7.7	8.6	6.1	8.2	8.3	8.3	8.5	8.5	8	8.7	6.4
28	7.7	7.7	7.8	7.8	7.8	7.4	8	5.9	7.4	7.4	7.4	7.7	7.7	7.7	7.7	6.1
30	6.7	6.9	7	7	7	7.2	7.3	5.7	6.6	6.6	6.7	6.9	6.7	7	7	5.9
32	6.1	6.2	6.3	6.3	6.3	6.6	6.5	5.5	5.9	5.9	6.1	6.2	6.1	6.3	6.3	5.7
34	5.5	5.7	5.7	5.8	5.8	5.9	5.9	5.3	5.3	5.4	5.5	5.5	5.5	5.8	5.7	5.6
36	5	5.2	5.3	5.3	5.3	5.4	5.4	5.2	4.8	4.8	5	5	5	5.3	5.2	5.4
38			4.7	4.8	4.8	5	4.9	5.1	4.3	4.3	4.5	4.6	4.6	4.7	4.7	4.8
40			4.3	4.3	4.5	4.5	4.5	4.6	3.9	3.9	4.1	4.2	4.2	4.3	4.3	4.5
42					4.1	4.1	4.2	4.2	3.6	3.6	3.8	3.8	3.8	3.9	3.9	4.1
44					3.8	3.8	3.8	3.9			3.4	3.4	3.5	3.5	3.5	3.7
46							3.5	3.5				3.1	3.1	3.2	3.2	3.3
48							3.2	3.2					2.8	2.9	2.9	3
50														2.6	2.7	2.8
52															2.4	2.5
54																2.3

LIFTING PERFORMANCE

Lifting capacity chart (SF-1, 2/2)

Counterweight: 34.5t Central ballast: 9t

Unit: t

Main boom	46								52							
Jib	7		11		15		19		7		11		15		19	
Angle	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°
14	12	12	12	12					12							
16	12	12	12	12		12			12	12	12					
18	12	12	12	12	12		11.6		12	12	12	12	12			
20	11.7	11.9	11.7	12	11.7	9.2	11.3		11.2	11.3	11.3	11.7	11.3		11.3	
22	10.2	10.5	10.2	10.7	10.2	8.8	10.5	7.1	9.8	10.1	9.8	10.2	9.8	9.1	9.8	
24	8.9	9.2	9.2	9.6	9.2	8.6	9.2	6.8	8.7	8.9	8.8	8.9	8.8	8.8	8.8	6.9
26	8	8.1	8.1	8.5	8.3	8.2	8.3	6.5	7.7	7.8	7.8	8.1	7.8	8.1	7.8	6.7
28	7	7.3	7.3	7.4	7.4	7.7	7.4	6.3	6.7	7	7	7.3	7	7.4	7	6.5
30	6.3	6.3	6.5	6.7	6.6	6.9	6.7	6.1	6.1	6.2	6.2	6.5	6.3	6.6	6.3	6.3
32	5.7	5.7	5.8	5.9	5.9	6.2	6.1	6	5.4	5.5	5.5	5.8	5.7	5.9	5.7	6.1
34	5	5.2	5.3	5.4	5.3	5.5	5.5	5.7	4.8	5	5	5.2	5.2	5.4	5.2	5.5
36	4.6	4.6	4.7	4.8	4.8	5	4.8	5.2	4.3	4.3	4.5	4.6	4.6	4.8	4.6	5
38	4.2	4.2	4.2	4.3	4.3	4.6	4.5	4.7	3.9	3.9	4	4.2	4.2	4.3	4.2	4.5
40	3.8	3.8	3.8	3.9	3.9	4.1	4.1	4.2	3.5	3.5	3.6	3.8	3.7	3.9	3.8	4.1
42	3.3	3.4	3.5	3.5	3.5	3.7	3.7	3.9	3.1	3.1	3.2	3.3	3.2	3.5	3.4	3.7
44	3	3	3.1	3.2	3.2	3.3	3.2	3.5	2.8	2.8	2.8	3	3	3.1	3.1	3.2
46	2.7	2.7	2.8	2.8	2.9	3	3	3.1	2.4	2.4	2.6	2.7	2.7	2.8	2.8	2.9
48			2.5	2.6	2.6	2.7	2.7	2.8	2.2	2.2	2.3	2.3	2.4	2.5	2.4	2.7
50			2.3	2.3	2.3	2.4	2.4	2.6	1.9	1.9	2	2.1	2.1	2.2	2.2	2.3
52					2.1	2.2	2.2	2.3	1.7	1.7	1.8	1.8	1.9	1.9	1.9	2.1
54					1.9	1.9	1.9	2			1.6	1.6	1.7	1.8	1.8	1.8
56							1.8	1.8			1.3	1.3	1.4	1.5	1.5	1.6
58							1.5	1.6					1.2	1.2	1.3	1.4
60													1.1	1.1	1.1	1.2

Attention:

- ① Values in lifting capacity charts include the weight of sling and wire rope. The actual weight of load should be less than the value.
- ② Values in lifting capacity charts are provided on the basis of the fact that the ground is solid and flat and the load is freely suspended.

Lifting capacity chart (SF-2, 1/2)

Counterweight: 34.5t Central ballast: 9t

Unit: t

Main boom	34								40							
Jib	7		11		15		19		7		11		15		19	
Angle	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°
11	12															
12	12	12	12						12							
14	12	12	12		12				12	12	12					
16	12	12	12	12	12		12		12	12	12	12	12			
18	12	12	12	11.9	12	9.1	11		12	12	12	12	12	9.3	11.6	
20	11.3	11.3	11.6	11.4	11.7	8.7	10.3	7	10.9	11.3	11.3	11.7	11.6	9	10.9	
22	9.6	9.8	10.1	10.2	10.2	8.3	9.7	6.7	9.4	9.6	9.8	10.2	10.1	8.6	10.2	6.9
24	8.5	8.5	8.8	8.9	8.9	8	9.1	6.4	8.1	8.3	8.5	8.8	8.8	8.3	8.9	6.6
26	7.4	7.4	7.7	7.8	7.8	7.7	8.1	6.1	7	7.3	7.4	7.7	7.7	8	7.8	6.4
28	6.5	6.6	6.7	7	7	7.3	7.3	5.9	6.1	6.3	6.5	6.7	6.7	7	7	6.1
30	5.7	5.8	5.9	6.1	6.2	6.5	6.3	5.7	5.4	5.5	5.7	5.9	5.9	6.3	6.1	5.9
32	5	5.2	5.3	5.5	5.5	5.8	5.7	5.5	4.7	4.8	5	5.3	5.3	5.5	5.4	5.7
34	4.5	4.5	4.7	4.8	5	5.2	5.3	4.2	4.2	4.2	4.5	4.6	4.6	4.8	4.8	5.3
36	3.9	3.9	4.2	4.3	4.3	4.6	4.6	4.8	3.7	3.8	3.9	4.1	4.2	4.3	4.3	4.6
38			3.8	3.8	3.9	4.1	4.1	4.3	3.2	3.2	3.4	3.5	3.7	3.8	3.8	4.1
40			3.2	3.3	3.5	3.7	3.7	3.9	2.8	2.8	3	3.1	3.2	3.4	3.4	3.7
42					3.1	3.2	3.2	3.5	2.4	2.4	2.7	2.7	2.8	3	3	3.2
44					2.8	2.8	2.9	3.1			2.3	2.3	2.4	2.6	2.7	2.8
46							2.6	2.7				2	2.2	2.3	2.3	2.5
48							2.3	2.4					1.9	1.9	2	2.2
50														1.7	1.8	1.9
52															1.5	1.6
54																1.3

LIFTING PERFORMANCE

Lifting capacity chart (SF-2, 2/2)

Counterweight: 34.5t Central ballast: 9t

Unit: t

Main boom	34								40							
Jib	7		11		15		19		7		11		15		19	
Angle	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°
14	12	12	12						12							
16	12	12	12		12				12	12	12					
18	12	12	12	12	12		11.6		11.7	12	11.9	12	12			
20	10.7	10.9	10.9	11.3	10.9	9.2	11.2		10.1	10.2	10.2	10.9	10.2		10.7	
22	9.2	9.4	9.4	9.8	9.6	8.8	9.6	7.1	8.8	8.9	8.9	9.4	8.9	9.1	9.2	
24	7.8	8.1	8.1	8.5	8.3	8.6	8.5	6.8	7.4	7.8	7.7	8.1	7.8	8.5	8.1	6.9
26	6.7	7	7	7.4	7.4	7.8	7.4	6.5	6.6	6.7	6.7	7.2	6.9	7.4	7	6.7
28	5.9	6.1	6.1	6.6	6.3	6.9	6.6	6.3	5.7	5.9	5.9	6.3	6.1	6.6	6.1	6.5
30	5.2	5.3	5.4	5.7	5.7	6.1	5.9	6.1	4.8	5	5.2	5.5	5.3	5.7	5.5	6.1
32	4.5	4.6	4.7	5	5	5.3	5.2	5.7	4.2	4.3	4.5	4.7	4.7	5.2	4.8	5.3
34	3.9	3.9	4.2	4.3	4.3	4.6	4.6	5	3.7	3.8	3.9	4.2	4.2	4.5	4.3	4.7
36	3.4	3.5	3.7	3.8	3.8	4.2	4.1	4.3	3.1	3.2	3.4	3.5	3.5	3.9	3.8	4.2
38	2.8	3	3.1	3.2	3.4	3.7	3.5	3.9	2.7	2.8	2.8	3.1	3.1	3.4	3.2	3.7
40	2.4	2.6	2.7	2.8	2.9	3.1	3.1	3.4	2.2	2.3	2.4	2.7	2.7	3	2.8	3.2
42	2.2	2.2	2.3	2.4	2.6	2.7	2.7	3	1.9	1.9	2.1	2.3	2.3	2.5	2.4	2.8
44	1.8	1.8	2	2.1	2.2	2.4	2.3	2.6	1.5	1.6	1.8	1.9	1.9	2.2	2.1	2.4
46	1.5	1.5	1.7	1.8	1.9	2	2	2.3	1.2	1.3	1.4	1.5	1.7	1.8	1.8	2
48			1.4	1.5	1.6	1.8	1.8	1.9	1.1	1.1	1.2	1.2	1.3	1.5	1.5	1.8
50			1.2	1.2	1.3	1.4	1.5	1.7			1	1.1	1.1	1.2	1.2	1.4
52					1.1	1.2	1.2	1.3						1	1.1	1.2
54						1	1.1	1.2								1

Attention:

- ① Values in lifting capacity charts include the weight of sling and wire rope. The actual weight of load should be less than the value.
- ② Values in lifting capacity charts are provided on the basis of the fact that the ground is solid and flat and the load is freely suspended.

ZOOMLION

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