



250t



88m



78m



115.5m

# ZOOMLION

# TECHNICAL SPECIFICATIONS

## ZAT2500V8

All terrain crane

Edition 1 August 2024



ZOOMLION

PROD  
4.0



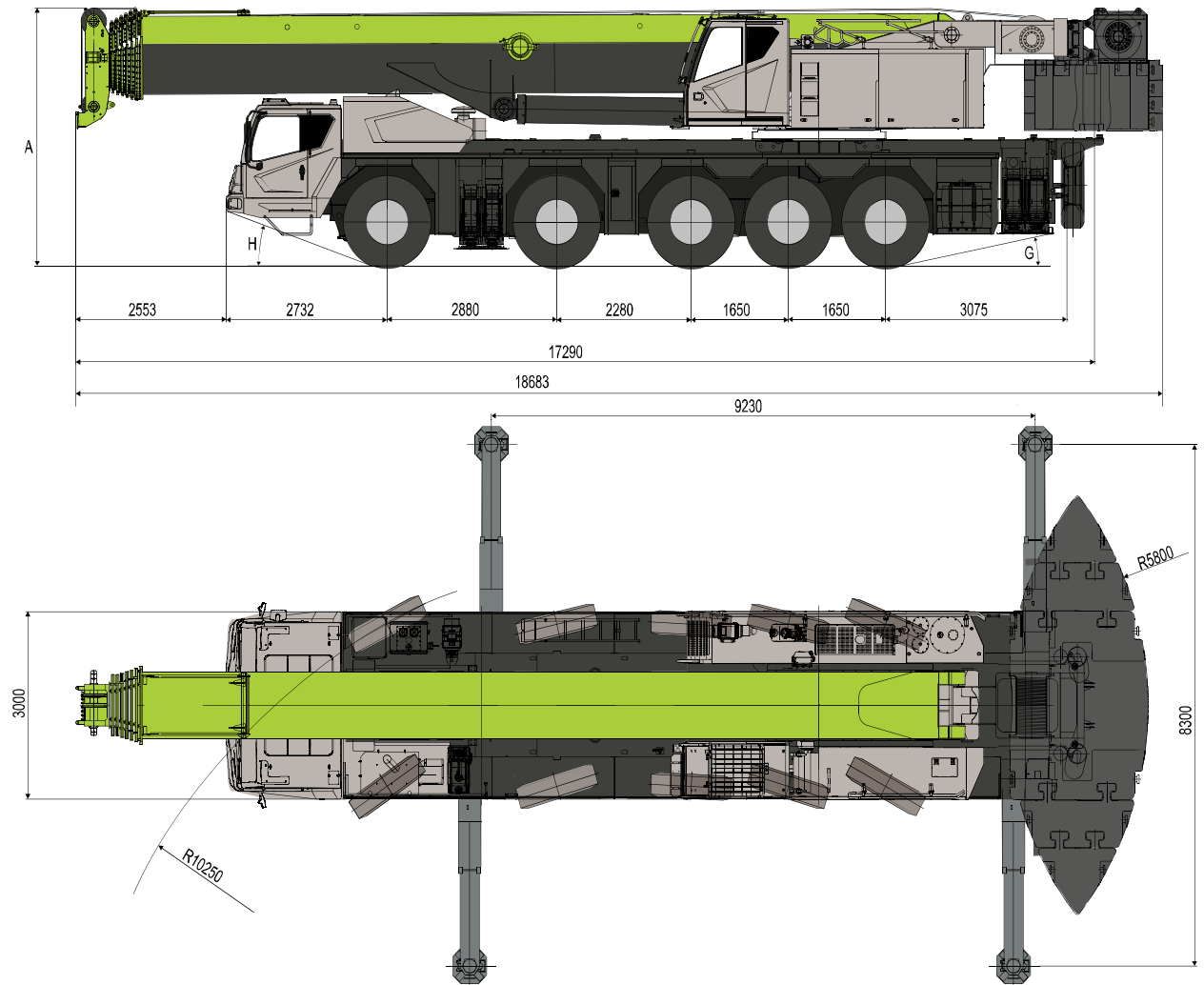
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# Dimensions

Operation condition (unit: mm)



	A	G	H
445/95 R25	4000	12°	19°

## ZAT2500V853 introduction





88m



33.5m



72t



338kw



199kw

## Technical data

Item		Value	Remarks	
Work performance	Max. rated lifting capacity	t	250	
	Max. load moment of basic boom	t.m	704	
	Max. load moment of main boom (fully extended)	t.m	252	
	Max. lifting height of basic boom	m	14.6	
	Max. lifting height of main boom	m	88	
	Max. lifting height of jib	m	115.5	These parameters do not include deflection of boom and jib.
Work speeds	Max. hoist rope speed (main winch)	m/min	135	
	Boom derricking up time	s	70	
	Boom extending time	s	750	
	Slewing speed	r/min	0 - 1.5	
Driving	Max. operation altitude	m	2000	
	Max. driving speed	km/h	80	
	Max. gradeability	%	48	
	Min. turning diameter	m	≤ 20.5	
	Min. ground clearance	mm	334	
	Limits for exhaust pollutants and smoke		Europe V	
	Front overhang angle	°	19	
	Rear overhang angle	°	12	
Mass	Deadweight in driving condition (total mass)	kg	54900	Single axle not exceeding 12t state: without the hook, the counterweight, the jib, the auxiliary winch & the auxiliary hoist rope, the rear sliding beams (including the cylinders), the outrigger pads, 4-8 sections of main boom and the spare tire.
	Complete vehicle kerb mass	kg	54705	
	Single axle load	kg	10050/10050/11600 /11600/11600	
Dimensions	Overall dimensions (L×W×H)	mm	17290×3000×4000	
	Outrigger spread (W)	m	Completely extended: 8.3 m; intermediate extended: 5.5 m	
	Outrigger spread (L)	m	9.23	
	Slewing radius of counterweight tail	mm	5300 (counterweight front position) 5800(counterweight rear position)	
	Main boom length	m	14.6 - 88	
	Boom angle	°	-0.5 - 82	

	Jib length	m	10.4, 17.5	Option: 25.5m, 33.5m
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## Table of options






No.	Description	Remarks
1	Base plate of outrigger	Overall dimensions: 1800mm*1800mm*210, 4 pieces
2	Extension	Including 2 pieces of 8m extensions
3	Hook	Stand configuration: 70t (single hook), 9t Options: 130t, 110t, 70t (ramshorn hook), 25t

## Hook

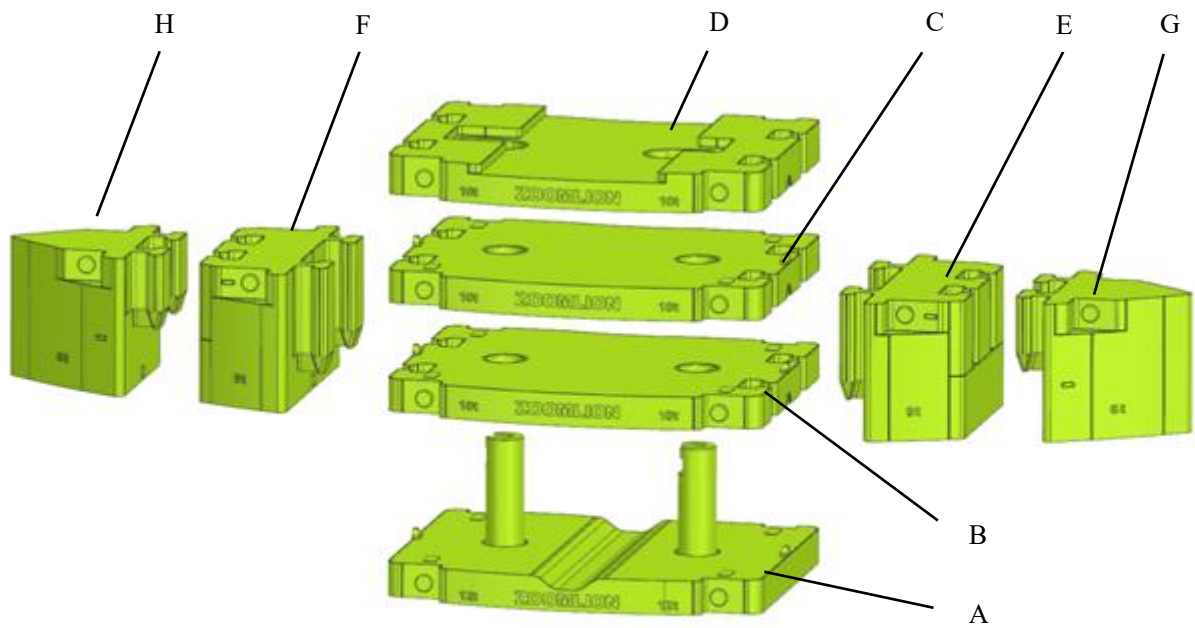


Specification	Weight (t)	Transport dimensions (mm)	Fall	Single hook	Double hook	Standard/ optional configuration
130t	1.48	1865×900×650	16	-	Double	○
110t	1.28	1835×805×650	14	-	Double	○
70t	0.92	1580×650×650	10	-	Double	○
70t	0.9	1675×650×650	10	Single	-	●
25t	0.59	1410×390×650	3	Single	-	○
9t	0.38	φ405×845	1	Auxiliary	-	●

## Wire rope

	 Diameter (mm)	 Length (m)	 Max. pulling force for single rope (t)
 Main hoist rope	φ20	425	9
 Auxiliary hoist rope	φ20	245	8.6

## Counterweight (transported individually)



T

he counterweight needs to be transported individually.

	Description	Mass (t)	Transport dimensions (mm)	Quantity (piece)
A	Lower counterweight	12	3000×2350×1130	1
B	Intermediate counterweight	10	3000×2350×315	1
C	Intermediate counterweight	10	3000×2350×315	1
D	Upper counterweight	10	3000×2355×320	1
E	Side counterweight 1	9	1015×1960×1100	1
F	Side counterweight 1	9	1015×1960×1100	1
G	Side counterweight 2	6	1315×1375×1100	1
H	Side counterweight 2	6	1315×1375×1100	1

Unit: piece

Combin	A	B	C	D	E	F	G	H
0t	0	0	0	0	0	0	0	0
12t	1	0	0	0	0	0	0	0
22t	1	1	0	0	0	0	0	0
32t	1	1	1	0	0	0	0	0
42t	1	1	1	1	0	0	0	0
60t	1	1	1	1	1	1	0	0
72t	1	1	1	1	1	1	1	1

## Equipment

The parts and components of this product are as shown below. As for the details, refer to the product configuration list.

● ——— standard configuration      ○ ——— optional configuration



### Superstructure

<ul style="list-style-type: none"> <li>● <b>Structure</b></li> </ul>	<ul style="list-style-type: none"> <li>• Designed and manufactured by Zoomlion</li> <li>• Made of high-tensile structure steel.</li> </ul>
<ul style="list-style-type: none"> <li>● <b>Main boom</b></li> </ul>	<ul style="list-style-type: none"> <li>• 8 boom sections made of 1100MPa high-tensile steel</li> <li>• Optimal oviform boom profile of particular tensional rigidity, outstanding local stability and for the super lifting capacities</li> <li>• Main boom length: 14.6 m - 88 m</li> </ul>
<ul style="list-style-type: none"> <li>● <b>Jib</b></li> </ul>	<ul style="list-style-type: none"> <li>• Jib variants: 10.4 m, 17.5 m, 25.5 m (One section of 8 m jib extension is available for options.), 33.5 m (Two sections of 8 m jib extension are available for options.)</li> <li>• The adaptor of the jib can be used as the tip boom independently.</li> </ul>
<ul style="list-style-type: none"> <li>● <b>Telescoping system</b></li> </ul>	<ul style="list-style-type: none"> <li>• The telescopic boom is telescoped by the single-stage telescoping cylinder with hydraulic interlocking device.</li> <li>• Rapid-cycle telescoping system with “automatic mode”, i.e. all-automatic telescoping to the desired boom length in sequence.</li> </ul>
<ul style="list-style-type: none"> <li>● <b>Hoist gear</b></li> </ul>	<ul style="list-style-type: none"> <li>• Hydraulic motor + planetary reducer</li> <li>• The main and auxiliary winches can be operated independently or simultaneously.</li> <li>• High-performance rotation-resistant ropes can be used without swivel under load and can be arranged orderly on the drum; the press nipple can be used for rapid reeving change.</li> </ul>
<ul style="list-style-type: none"> <li>● <b>Luffing gear</b></li> </ul>	<ul style="list-style-type: none"> <li>• One hydraulic cylinder, providing the boom with smooth luffing movements from -0.5° to 82°</li> </ul>
<ul style="list-style-type: none"> <li>● <b>Slewing gear</b></li> </ul>	<ul style="list-style-type: none"> <li>• Two slewing gears, consisting of hydraulic motor and planetary</li> </ul>

	<p>reducer</p> <ul style="list-style-type: none"> <li>• Slewing speed: 0 – 1.5 rpm</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Slewing table</b></li> </ul>	<ul style="list-style-type: none"> <li>• Box-type, torsion resistant design of high-tensile steel, providing super load bearing capacity</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Operator's cab</b></li> </ul>	<ul style="list-style-type: none"> <li>• 4.0 series spacious panoramic cab with sliding door, outward pushing windshield, front foot pedal, safe guard rail around the roof of the cab</li> <li>• No instrument console and electric elements are in the front of the cab. And thus, you can have a good riding experience due to spacious room and comfortable feeling.</li> <li>• Integrated bus key panel is compact, simple and reliable. Night vision background light is clear and makes night work safe.</li> <li>• Vertical 10.4 inch two-in-one LCD (touch screen) integrates all of functions and has good observation angle. And thus, you can have good operation experience.</li> <li>• It is with USB plug. And thus, it is chargeable.</li> <li>• The cab can be tilted for 0-20° to improve operator's field of vision and reduce the operation intensity.</li> <li>• Cab heater and air conditioning.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Counterweight</b></li> </ul>	<ul style="list-style-type: none"> <li>• 72t total counterweight among which 42t main body counterweights (4 pieces), 9t side counterweights (2 pieces) and 6t side counterweights (2 pieces)</li> <li>• Counterweight combinations include 0t, 12t, 22t, 32t, 42t, 60t and 72t.</li> <li>• Each counterweight combination can be moved backwards for 0.5m.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Hook</b></li> </ul>	<ul style="list-style-type: none"> <li>• Hook: 130t, 110t, 70t (ramshorn hook), 70t (single hook), 25t, 9t.</li> <li>• Among which, 70t (single hook) and 9t hooks are standard configurations. The rest ones are available for options.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Hood</b></li> </ul>	<ul style="list-style-type: none"> <li>• In frame-type structure, beautiful appearance</li> <li>• It is made of aluminium alloy. And thus, it is reliable and durable.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Central lubricating system</b></li> </ul>	<ul style="list-style-type: none"> <li>• Both the superstructure and the chassis adopt the central lubricating system.</li> <li>• All the lubricating points are automatically supplied with the correct grease quantity for prolonged crane service life and easy maintenance.</li> </ul>

<ul style="list-style-type: none"> <li>● <b>Control system</b></li> </ul>	<ul style="list-style-type: none"> <li>• Superstructure operating mode consists of the electro-hydraulic proportional operation and the computer integrated control. Superstructure hydraulic system adopts open and closed combined system.</li> <li>• It is of these functions such as the counterweight self-assembly and dismantling function, the operator's cab tilting angle adjustment function, which have good starting and braking stability as well as the higher system reliability.</li> </ul>
<ul style="list-style-type: none"> <li>● <b>Monitoring system</b></li> </ul>	<ul style="list-style-type: none"> <li>• Applying the bus technology, the superstructure and the chassis can monitor the outrigger pressures and the tilting angle of the chassis frame in real time. And thus, prevent the dangerous situations from happening.</li> <li>• The complete vehicle is equipped with several encoders and sensors which can monitor each system state of the vehicle in real time. Combining with the upgraded safety strategy, prevent the dangerous situations from happening. And thus, realize the high efficient safety operation.</li> </ul>
<ul style="list-style-type: none"> <li>● <b>Superstructure engine</b></li> </ul>	<ul style="list-style-type: none"> <li>• Model: Weichai WP7G270E301</li> <li>• Type: 6-cylinder in line, turbo-charged, intercooled (air-air)</li> <li>• Exhaust emission standard: Off-road emission China III (GB 20891-2014)</li> <li>• Rated maximum power / RPM: 199 kW at 2000 r/min</li> <li>• Max. output torque / RPM: 1200 N.m at 1200 -1500r/min</li> </ul>

# Equipment



## Chassis

<ul style="list-style-type: none"> <li>● <b>Engine</b></li> </ul>	<ul style="list-style-type: none"> <li>• Model: WP12.460E50</li> <li>• Type: 6-cylinder in line, turbo-charged, intercooled</li> <li>• Displacement: 11.596 L</li> <li>• Rated power / RPM: 338 kW at 1900 r/min</li> <li>• Max. output torque / RPM: 2110 N.m at 1000 -1400r/min</li> <li>• Exhaust emission standard: Europe V emission standard</li> <li>• Capacity of diesel oil tank: 500 L.</li> </ul>
<ul style="list-style-type: none"> <li>● <b>Transmission</b></li> </ul>	<ul style="list-style-type: none"> <li>• F12JZ22A automatic transmission manufactured by Shaanxi FAST Auto Drive Co., Ltd.</li> <li>• The hydraulic retarder is available for options.</li> <li>• 12 forward and 2 reverse speeds</li> </ul>
<ul style="list-style-type: none"> <li>● <b>Transfer case</b></li> </ul>	<ul style="list-style-type: none"> <li>• 2-gear transfer case (speed ratio: 1/1.75)</li> </ul>
<ul style="list-style-type: none"> <li>● <b>Propeller shaft</b></li> </ul>	<ul style="list-style-type: none"> <li>• The vehicle adopts an open propeller shaft arrangement with the contrate gear flange which complies with the international standard. It is convenient to assemble and properly fixed. The included angle of the propeller shaft is small. Moreover, it is durable and reliable.</li> </ul>
<ul style="list-style-type: none"> <li>● <b>Axles</b></li> </ul>	<ul style="list-style-type: none"> <li>• Manufacturer: Luzhou Kishiler Engineering Technology Co., Ltd.</li> <li>• Axle load: 13 tons</li> <li>• 3 axles are mechanically drive.</li> <li>• All axles steer. 3 axles are mechanical drive. Axles 2, 4 and 5 are steer and drive axles. Axles 1 and 3 are steer and driven axles.</li> <li>• Axles 1 and 5 adopt disc brakes, while axles 2, 3 and 4 adopt drum brakes.</li> </ul>
<ul style="list-style-type: none"> <li>● <b>Outrigger</b></li> </ul>	<ul style="list-style-type: none"> <li>• H type two sectional outrigger, box-shaped section, made of high-tensile steel (<math>\delta_s=960\text{MPa}</math>)</li> </ul>

<p><b>•Tires</b></p>	<ul style="list-style-type: none"> <li>• Tubeless tire</li> <li>• Tire size: 445/95R25 radial tires</li> <li>• Tire pressure: 1 MPa</li> <li>• Rim type: 25-10.00/1.5 (optional: 25-11.00/1.7)</li> <li>• Tightening torque of tire bolt: 650 – 700 N.m</li> </ul>
<p><b>•Steering system</b></p>	<ul style="list-style-type: none"> <li>• All-wheel variable steering system with 6 steering programs</li> <li>• The steering system consists of a double-channel steering gear and a single axle double cylinder booster. A neutral locking cylinder set in each electrical control steer axle can make sure that each electrical control axle can move back to neutral position timely, and thus make sure that the vehicle has good travel stability. The system is equipped with an emergency steering device. When the main steering oil pump cannot work during travelling, the emergency pump installed on the front end of the transfer case supplies the power to the steering hydraulic system.</li> <li>• Axles 1 and 2 are mechanically steered by the steering wheel. Axles 3, 4 and 5 are steered by the electric proportional valve.</li> <li>• Drive the electric proportional steer valve to control the movements of the steering booster cylinder and the neutral locking cylinder via PLC.</li> </ul>
<p><b>•Suspension</b></p>	<ul style="list-style-type: none"> <li>• All axles with hydro-pneumatic suspension and automatic leveling system</li> <li>• Load equalization between the axle pairs</li> <li>• The axles are hydro-pneumatically sprung via hydraulic cylinders and are hydraulically lockable. Entire vehicle can be raised or lowered and its left / right side can also be raised or lowered independently. All tires can be raised or lowered after the crane is supported on outriggers.</li> <li>• The synchronized extension and retraction movements of suspension cylinders can be realized by the speed control valve fitted in the oil line of suspension control valve.</li> </ul>
<p><b>•Brake system</b></p>	<ul style="list-style-type: none"> <li>• It consists of service brake, parking brake (emergency brake) and auxiliary brake.</li> <li>• Service brake: dual-circuit air brake system, acting on 4 disc brakes and 6 drum brakes</li> <li>• Parking brake (Emergency brake): spring-loaded brake, acting on 2 disc brakes and 4 drum brakes</li> <li>• Auxiliary brake: in-cylinder engine brake, transmission hydraulic retarder brake (optional)</li> </ul>

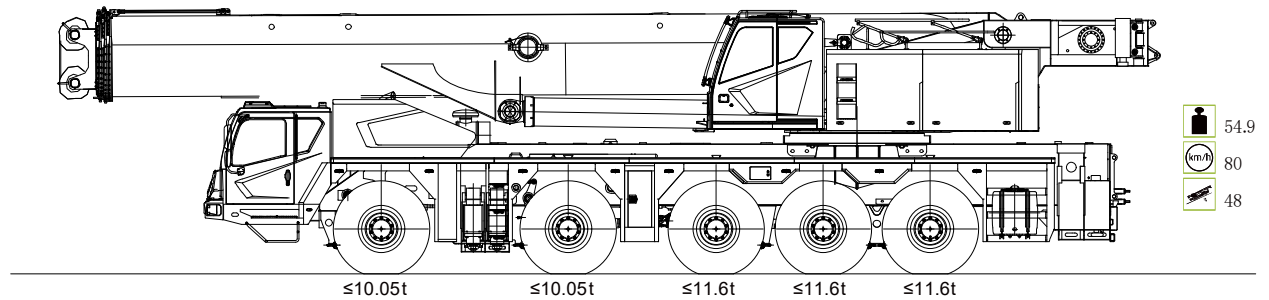
	<ul style="list-style-type: none"> <li>• Double circuit brake system. Axles 1 and 5 adopt the disc brakes and axles 2, 3 and 4 adopt the drum brakes.</li> <li>• The auxiliary brake is used for long descending gradients to minimize wear of the brake.</li> <li>• The brake system is with ABS.</li> </ul>
<p><b>●Electrical system</b></p>	<ul style="list-style-type: none"> <li>• CAN data bus technology</li> <li>• The driver's cab is equipped with a large multifunctional electronic display screen (touch screen) in multiple interfaces with convenient interactive functions.</li> <li>• Generator: 28 V, 80 A</li> <li>• With visible reversing device and acoustic warning system</li> <li>• It can perform a vehicle fault diagnosis, display and storage.</li> </ul>
<p><b>●Driver's cab</b></p>	<ul style="list-style-type: none"> <li>• 4.0 series full-width and all-metal welded spacious cab with flexible lining is of convincing design and outstanding functionality</li> <li>• The control elements and displays are arranged according to ergonomic factors, thus for safe and convenient handling at permanent operation</li> <li>• The cab is with the following features: <ul style="list-style-type: none"> <li>➤ Height and inclination adjustable steering wheel, power windows, windshield wiper &amp; washing device and large reflectors</li> <li>➤ The instrument console equipped with all kinds of instruments, control lights, control switches, cigarette lighter, USB interface and MP3 player and so on</li> <li>➤ Adjustable cab heater / defroster and single-cooling air conditioning</li> <li>➤ Rearview camera</li> <li>➤ The comfortable seats with armrests and high backrest. (The pneumatically suspended driver's seat can be adjusted automatically to suit any driver height and size.)</li> </ul> </li> </ul>

## Travel modes

### ① Road travel mode (single axle not exceeding 12t):

These components such as the hook, the jib, the counterweight, the auxiliary winch and the auxiliary hoist rope, the rear sliding beams (including the cylinders), the outrigger pads, 4-8 sections of main boom, the spare tire are removed from the crane.

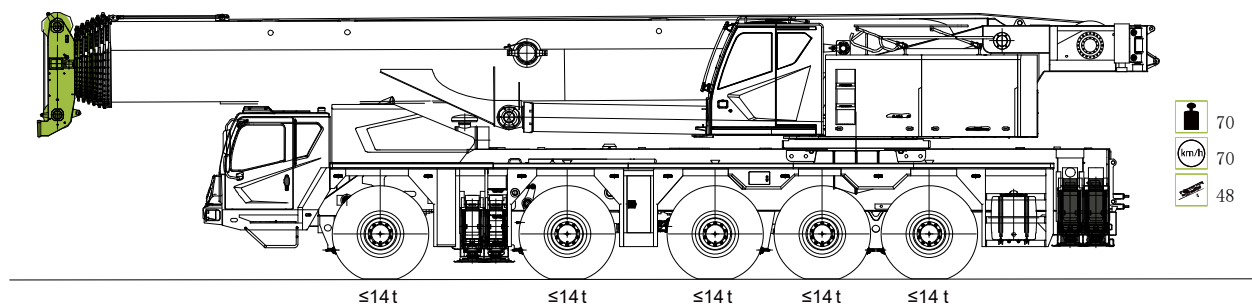
Under the single axle not exceeding 12t state.



### ② Road travel mode (70t):

These components such as the hook, the jib, the auxiliary winch and the auxiliary hoist rope, the counterweight and the spare tires are removed from the crane.

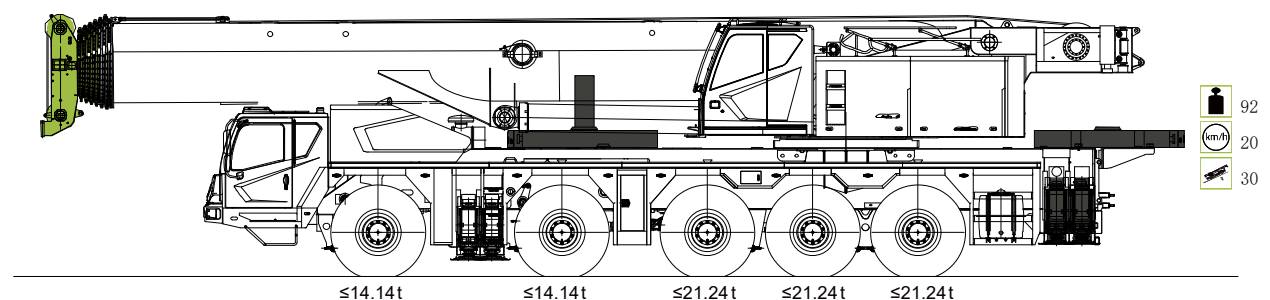
For regular traveling



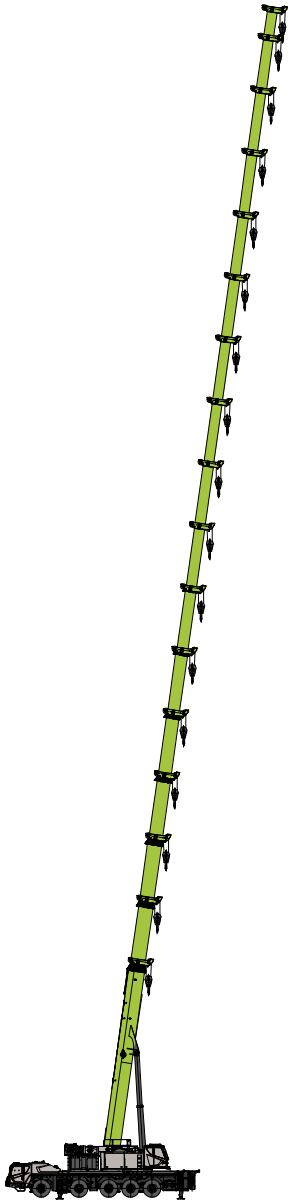
### ③ Off-road transit mode (92t):

These components such as the hook, the jib, the auxiliary winch and the auxiliary hoist rope and the spare tire are removed from the crane. And the vehicle is with 22t counterweight.

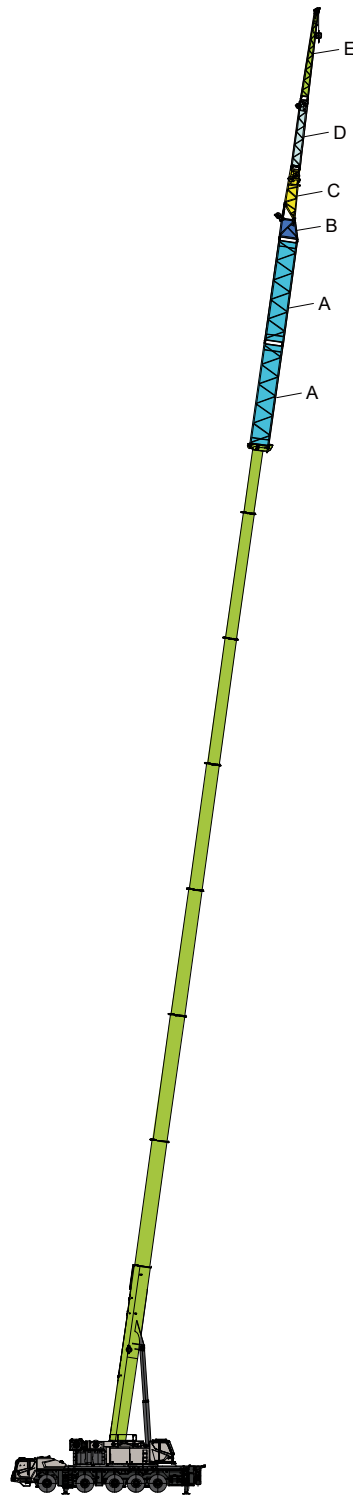
For short distance and off-road transit travelling.



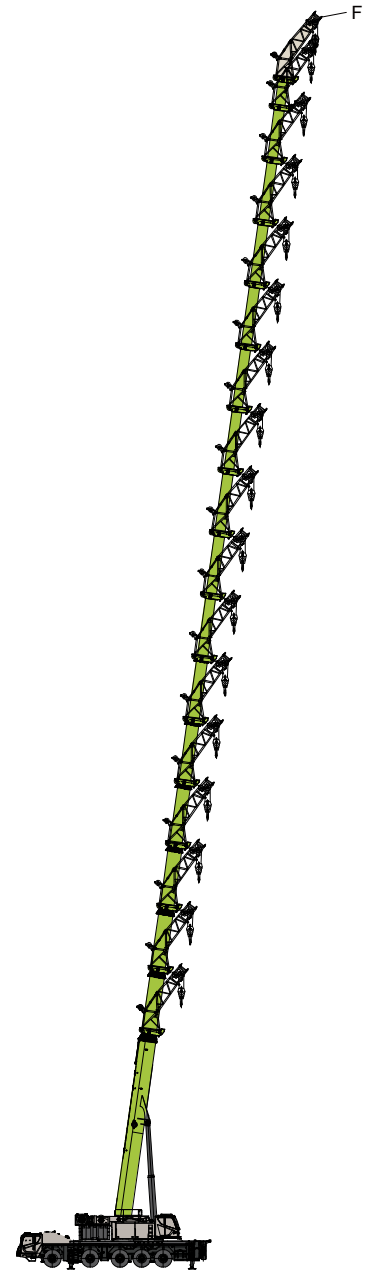
## Boom / jib combinations



Main boom

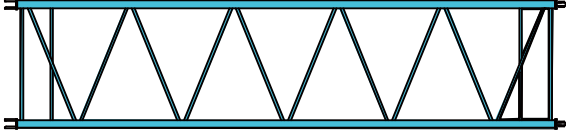
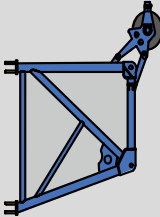
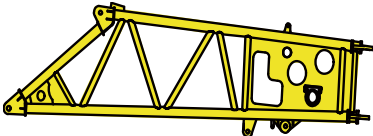
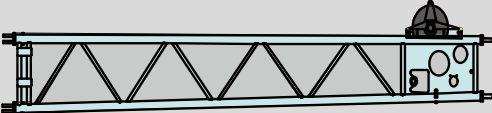
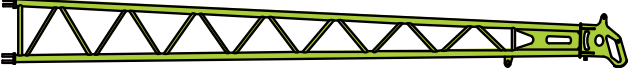
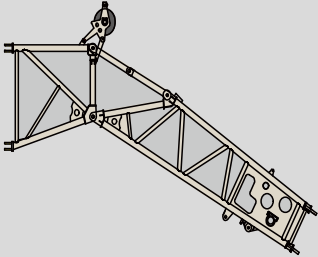


Main boom + Jib

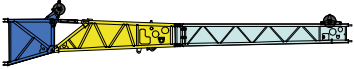
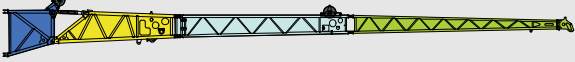
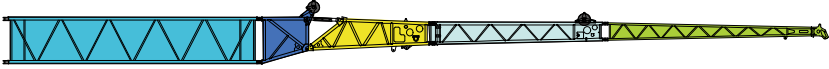
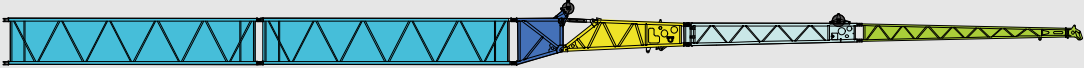


Main boom + Tip boom

## Boom / jib combinations

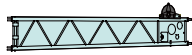
Pos.	Components	Structure type	Dimensions (L*W*H) mm	Weight kg
A	8m extension		8000×950×1460	580
B	Adaptor I		1500×850×620	231
C	Adaptor II		4000×620×620	468
D	Jib section I		5500×800×800	400
E	Jib section II		7100×520×600	270
F	Tip boom		5500×850×620	700

# Jib

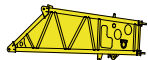
10.4m	
17.5m	
25.5m	
33.5m	



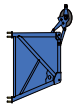
Jib section II



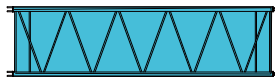
Jib section I



Adaptor II








Adaptor I







8m extension

## Lifting heights + Lifting capacities

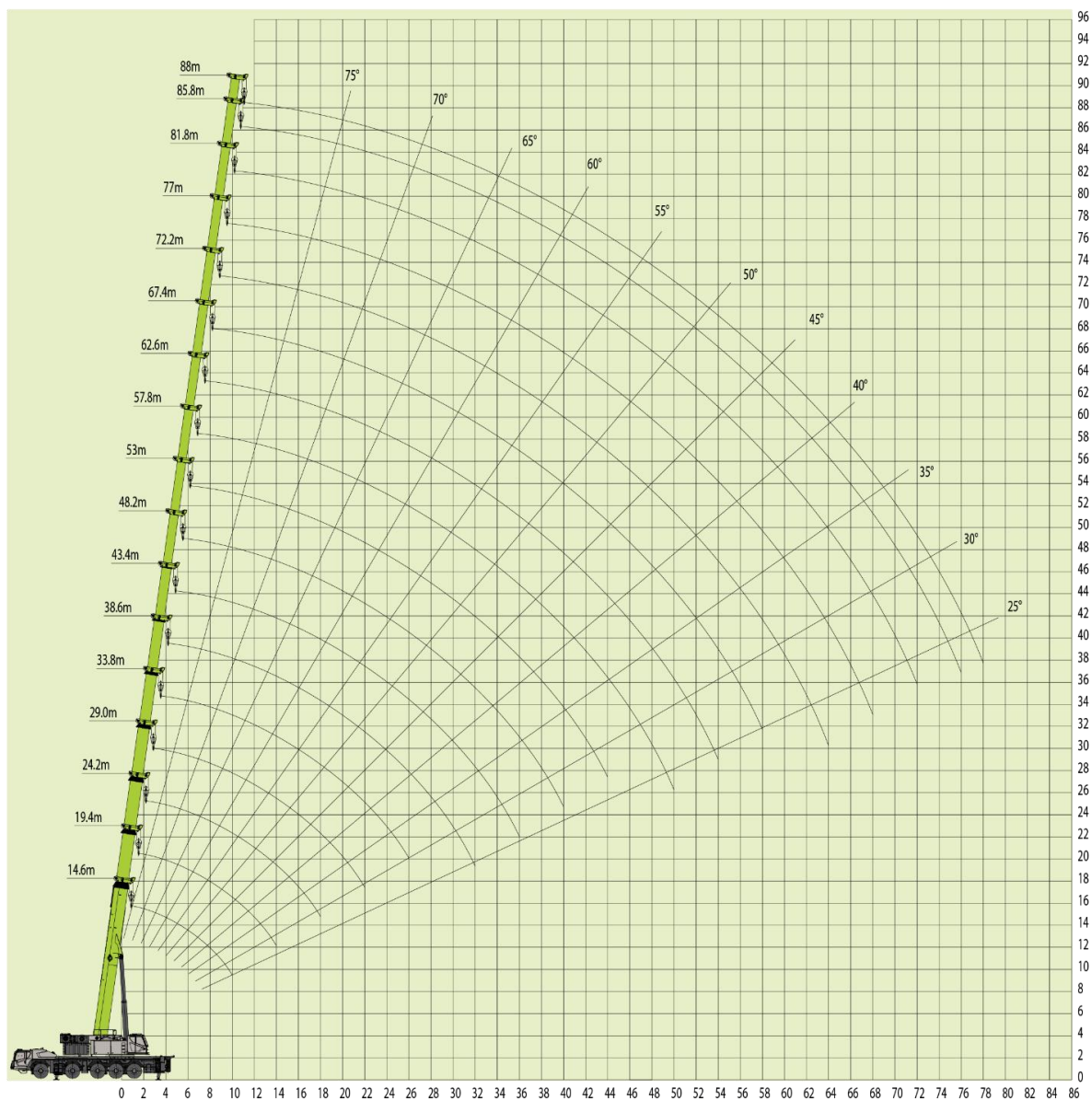
The graphic description is as follows.

Graphical representation	Description
	Main Boom OM
	Superlift OM
	Jib OM
	Rear position
	Max. number of fall

Graphical representation	Description
	Outriggers completely extended
	Counterweight
	Over full range
	Standard

## Lifting heights + Lifting capacities

Main boom OM: 14.6 m – 88 m



### Note:

1. OM marked with the asterisks (\*) is nominal one;
2. As for the OM of which the lifting capacity is more than 115t, the hook and the boom frame pulley should be modified. If necessary, contact the manufacturer in advance;
3. The telescoping modes marked with ★ are optimal ones.

Table 8-1 Main boom



14.6- 88m

9.23×8.3m

72t

	14.6 ★	19.4	19.4	19.4	19.4	19.4	19.4 ★	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2 ★	
2.5	250*															2.5
3.0	145	55	70	90	100	110	135	30	58	80	85	100	110	130*		3.0
3.5	145	53	68	90	100	110	135	28.5	57	78	85	100	110	130*		3.5
4.0	136	50	65	90	100	110	130	26.8	55	75	85	100	110	130*		4.0
4.5	129	48	62	85	100	110	128	25.2	50	71	80	100	110	126		4.5
5.0	122	46	59	82	100	110	121	23.8	49	69	75	98	110	117		5.0
6.0	109	42	56	79	90	104	108	21.6	44	62	66	91	101	104		6.0
7.0	95	39	53	75	85	93	94	19.5	40	56	59	84	91	92		7.0
8.0	88	36	49	70	77	84	87	18	36.5	51	55	76	83	85		8.0
9.0	77	34	46	64	70	76	76	16.5	34	47	50	68	75	75		9.0
10.0	67	32	42	59	65	69	68	15.2	31	45	47	63	67	67		10.0
12.0		28.5	36	51	55	57	56	13.3	26.5	38	41	54	56	56		12.0
14.0		26	32	46	47	48	47	11.8	23.5	34	36.2	46.5	48	46.8		14.0
16.0								10.5	21	30.5	32	40.5	40	39		16.0
18.0								9.6	19	28	29	34	33.5	32.5		18.0
20.0																20.0
22.0																22.0
24.0																24.0
26.0																26.0
28.0																28.0
30.0																30.0
32.0																32.0
34.0																34.0
36.0																36.0
38.0																38.0
40.0																40.0
42.0																42.0
44.0																44.0
46.0																46.0
48.0																48.0
50.0																50.0
52.0																52.0
54.0																54.0
56.0																56.0
58.0																58.0
60.0																60.0
62.0																62.0
64.0																64.0
66.0																66.0
68.0																68.0
70.0																70.0
72.0																72.0
<b>N<sub>max</sub></b>	14	14						14						<b>N<sub>max</sub></b>		
<b>Hook</b>	130t															<b>Hook</b>
<b>Telescoping mode</b>	I	1	1	1	1	1	1	1	1	1	1	1	1	1	2	I
	II	1	1	1	1	1	1	2	1	1	1	1	1	2	2	II
	III	1	1	1	1	1	2	1	1	1	1	1	2	2	1	III
	IV	1	1	1	1	2	1	1	1	1	1	2	2	1	1	IV
	V	1	1	1	2	1	1	1	1	1	2	2	1	1	1	V
	VI	1	1	2	1	1	1	1	1	2	2	1	1	1	1	VI
	VII	1	2	1	1	1	1	1	3	2	1	1	1	1	1	VII

Table 8-2 Main boom



14.6- 88m

9.23×8.3m

72t



	29	29	29	29	29	29	29 ★	33.8	33.8	33.8	33.8	33.8	33.8	33.8 ★		
3.0															3.0	
3.5	31	39	60	75	85	100	115								3.5	
4.0	29	37	58	73	85	100	115								4.0	
4.5	28	35	56	70	82	100	115								4.5	
5.0	26.6	33	54	67	79	97	110	27	31	38	57	72	90	95	5.0	
6.0	24	29	50	60	73	89	97	24	27.5	35	53.5	65	85	90	6.0	
7.0	22	26.3	45.5	54	66	80	91	21.8	25.5	32	49	60	80	85	7.0	
8.0	20.4	24	42	49	60	73	82	20	23	29	45	55	74	79	8.0	
9.0	19	22	39	45	56	67	75	18.3	21.1	26.8	41	50	69	72	9.0	
10.0	17.5	20.2	36.5	40.5	52	62	67	16.5	19.5	24.6	37.5	47	64	64	10.0	
12.0	15.5	17.5	32	35.8	45	53	55	14.5	17	21.3	32.5	39.5	55	56	12.0	
14.0	13.7	15.2	28	31.5	40	46	47	12.9	15	18.3	29	34.5	47	47	14.0	
16.0	12.5	13.6	25	28	36		39	11.3	13.2	16.3	25.5	33	40	39	16.0	
18.0	11.4	12.2	23	25	32.5		33.5	10.2	12	14.8	23	29	34.5	34	18.0	
20.0	10.5	11.1	21	23	30	29	28.1	9.3	10.8	13.3	21	26.5	30	29	20.0	
22.0	9.6	10.2	19.5	21	25.5	25.3	23.9	8.4	9.9	12.1	19.2	24	24.7	24.7	22.0	
24.0								7.8	9	11.2	17.5	22.3	22	21.3	24.0	
26.0								7.2	8.3	10.4	15.3	21	19.5	18.4	26.0	
28.0															28.0	
30.0															30.0	
32.0															32.0	
34.0															34.0	
36.0															36.0	
38.0															38.0	
40.0															40.0	
42.0															42.0	
44.0															44.0	
46.0															46.0	
48.0															48.0	
50.0															50.0	
52.0															52.0	
54.0															54.0	
56.0															56.0	
58.0															58.0	
60.0															60.0	
62.0															62.0	
64.0															64.0	
66.0															66.0	
68.0															68.0	
70.0															70.0	
72.0															72.0	
74.0															74.0	
76.0															76.0	
<b>N<sub>max</sub></b>	13							11							<b>N<sub>max</sub></b>	
<b>Hook</b>	130t							110t							<b>Hook</b>	
<b>Telescoping mode</b>	I	1	1	1	1	1	1	2	1	1	1	1	1	1	2	I
	II	1	1	1	1	1	2	2	1	1	1	1	1	2	2	II
	III	1	1	1	1	2	2	2	1	1	1	1	2	2	2	III
	IV	1	1	1	2	2	2	1	1	1	1	2	2	2	2	IV
	V	1	1	2	2	2	1	1	1	2	3	2	2	2	1	V
	VI	2	3	2	2	1	1	1	3	3	2	2	2	1	1	VI
	VII	3	2	2	1	1	1	1	3	2	2	2	2	1	1	VII

Table 8-3 Main boom



14.6- 88m

9.23×8.3m

72t

	38.6	38.6	38.6	38.6	38.6	38.6	38.6 ★	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4 ★	
3.0																3.0
3.5																3.5
4.0																4.0
4.5																4.5
5.0																5.0
6.0	25	30	27	35	56	67	76									6.0
7.0	23	27	25	32	53	62	75	24	22.5	26.2	32	39	57	64		7.0
8.0	21	25	22.5	29	49	62	72	22.2	20.6	24	29	36	53.8	64		8.0
9.0	19.2	23	20.5	26.5	45	57	68	20.6	19	22.3	27	33	50	62.1		9.0
10.0	17.9	22	19	24.5	42	54	63	19.3	17.5	20.6	25	30.5	47	58.3		10.0
12.0	16.6	19	16.5	21	37	47	56	17	15	18	21.2	26.5	41	51.9		12.0
14.0	15.5	17	14.3	18.6	32	42	46	15	13.1	15.8	18.7	23.5	36.7	46		14.0
16.0	13.6	15	12.6	16.5	29	37	40	13.4	11.6	14	16.5	20.7	33.2	39		16.0
18.0	12	13.5	11.2	14.5	26	34	34	12	10.4	12.6	15	18.7	30	34		18.0
20.0	10.9	12.2	10.1	13	24	30.5	30	11	9.2	11.4	13.2	16.8	27.5	30		20.0
22.0	9	11.2	9.1	12	22	27	26	10	8.3	10.5	12	15.4	25.3	27		22.0
24.0	8.2	10.1	8.4	11	20	23.5	22.5	9.3	7.6	9.6	11	14.1	23.4	23		24.0
26.0	7.5	9.5	7.7	9.8	19	20.5	19.5	8.6	6.9	8.8	10	12.6	21.5	20		26.0
28.0	7	8.7	7	9.2	17.5	18.5	17.2	8	6.3	8	9.2	11.8	18.5	17.4		28.0
30.0	6.5	8	6.5	8.5	16.5	16.5	15	7.5	5.8	7.4	8.5	11	16.9	15.3		30.0
32.0	6	7.5	6	7.7	15.5	14.5	12.6	7	5.3	6.9	7.9	10.2	15	13.6		32.0
34.0								6.5	4.9	6.4	7.2	9.4	13.6	12.1		34.0
36.0								6	4.5	5.8	6.6	8.8	12.3	10.8		36.0
38.0																38.0
40.0																40.0
42.0																42.0
44.0																44.0
46.0																46.0
48.0																48.0
50.0																50.0
52.0																52.0
54.0																54.0
56.0																56.0
58.0																58.0
60.0																60.0
62.0																62.0
64.0																64.0
66.0																66.0
68.0																68.0
70.0																70.0
72.0																72.0
<b>N<sub>max</sub></b>	9							8							<b>N<sub>max</sub></b>	
<b>Hook</b>	110t							70t							<b>Hook</b>	
<b>Telescoping mode</b>	I	1	1	1	1	1	1	2	1	1	1	1	1	1	2	I
	II	1	1	1	1	1	2	2	1	1	1	1	1	2	2	II
	III	1	1	1	1	2	2	2	1	1	1	2	3	2	2	III
	IV	1	1	2	3	2	2	2	1	2	3	3	2	2	2	IV
	V	2	3	3	2	2	2	2	3	3	3	2	2	2	2	V
	VI	3	3	2	2	2	2	1	3	3	2	2	2	2	2	VI
	VII	3	2	2	2	2	1	1	3	2	2	2	2	2	1	VII
																<b>Telescoping mode</b>

Table 8-4 Main boom



14.6- 88m

9.23×8.3m

72t

	48.2	48.2	48.2	48.2	48.2	48.2	48.2 ★	53	53	53	53	53	53	53	53 ★	
3.0																3.0
3.5																3.5
4.0																4.0
4.5																4.5
5.0																5.0
6.0																6.0
7.0																7.0
8.0	19	21.5	25	30	38	45	56									8.0
9.0	17.5	20	23	28	36	42	52.5	18.5	21.2	24.5	29	36.5	41	43		9.0
10.0	16	18.5	22	26	33.5	39.5	49.5	17.5	20	23.1	27.8	34.2	39	42		10.0
12.0	14	16	19.2	23	29.5	35	44.3	15.2	17.5	20.5	24.5	30	34.5	37.4		12.0
14.0	12.1	14.2	17	20.3	26	31	40	13.4	15.5	18.3	22	27	31	33.5		14.0
16.0	10.8	12.6	15.2	18	23.2	27.6	36	12	13.9	16.5	19.8	24	28	30.2		16.0
18.0	9.6	11.2	13.7	16.2	21	25	33.2	10.8	12.5	14.6	18	21.5	25.2	27.2		18.0
20.0	8.6	10.2	12.2	14.7	19	22.5	30	9.8	11.4	13.2	16.3	19.5	23	24.5		20.0
22.0	7.8	9.3	11	13.4	17.5	20.5	27	8.9	10.4	12	15	17.7	21	22.2		22.0
24.0	7.1	8.5	10.2	12.2	16	18.6	23.5	8.1	9.5	11	13.6	16.2	19.2	20.1		24.0
26.0	6.5	7.7	9.2	11.3	14.8	17.2	20	7.4	8.8	10	12.7	14.5	17.8	18.3		26.0
28.0	6	7.1	8.5	10.4	13.6	15.9	18	6.8	8.1	9.2	11.6	13.5	16.3	16.8		28.0
30.0	5.4	6.6	7.8	9.6	12.6	14.7	16	6.3	7.5	8.5	10.7	12.5	15.1	15.4		30.0
32.0	5	6.1	7.2	8.8	11.8	13.5	14.3	5.8	6.9	7.8	10	11.6	14.1	14.2		32.0
34.0	4.7	5.6	6.6	8.2	11	12.6	12.8	5.4	6.4	7.3	9.3	10.6	13	12.8		34.0
36.0	4.3	5.2	6	7.7	10.3	11.6	11.6	5.1	5.9	6.8	8.8	9.8	11.7	11.4		36.0
38.0	4	4.9	5.6	7.2	9.6	10	10.3	4.7	5.5	6.2	8.2	9.1	10.5	10.3		38.0
40.0	3.6	4.6	5.2	6.6	9	9.5	9.2	4.4	5.1	5.8	7.8	8.5	9.5	9.2		40.0
42.0								4.1	4.7	5.3	7.3	8	8.6	8.3		42.0
44.0								3.8	4.4	5.1	6.9	7.3	7.6	7.4		44.0
46.0																46.0
48.0																48.0
50.0																50.0
52.0																52.0
54.0																54.0
56.0																56.0
58.0																58.0
60.0																60.0
62.0																62.0
64.0																64.0
66.0																66.0
68.0																68.0
70.0																70.0
72.0																72.0
74.0																74.0
76.0																76.0
<b>N<sub>max</sub></b>	7							6							<b>N<sub>max</sub></b>	
<b>Hook</b>	70t															<b>Hook</b>
<b>Telescoping mode</b>	I	1	1	1	1	1	1	2	1	1	1	1	1	2	3	I
	II	1	1	1	1	2	3	2	1	1	1	2	3	3	2	II
	III	1	1	2	3	3	2	2	1	2	3	3	3	2	2	III
	IV	2	3	3	3	2	2	2	3	3	3	3	2	2	2	IV
	V	3	3	3	2	2	2	2	3	3	3	2	2	2	2	V
	VI	3	3	2	2	2	2	2	3	3	2	2	2	2	2	VI
	VII	3	2	2	2	2	2	2	3	2	2	2	2	2	2	VII

Table 8-5 Main boom



14.6- 88m

9.23×8.3m

72t

	57.8	57.8	57.8	57.8	57.8	57.8	★				62.6	62.6	62.6	62.6	62.6	★	
3.0																	3.0
3.5																	3.5
4.0																	4.0
4.5																	4.5
5.0																	5.0
6.0																	6.0
7.0																	7.0
8.0																	8.0
9.0																	9.0
10.0	18	20.5	23.5	28.5	32.5	35											10.0
12.0	16	17.8	21	25.5	29	32				16.5	19.3	21	24	26			12.0
14.0	14.2	16	19.3	23	26.5	29.5				14.8	17.4	20	22.5	25.5			14.0
16.0	12.8	14.3	17.4	21	24	27				13.4	15.9	18	21	24.5			16.0
18.0	11.6	12.8	15.6	19	22	24.5				12.2	14.5	16.5	19.5	22.5			18.0
20.0	10.5	11.7	14.5	17	20.2	22				11.2	13.3	15	18	20.5			20.0
22.0	9.6	10.6	13.5	16	18	20.2				10.3	12.3	14.3	17.3	18.5			22.0
24.0	8.8	9.8	12.3	14.2	16.8	18.2				9.5	11.3	13.2	15.8	17			24.0
26.0	8.1	9	11.3	13.3	15.3	16				8.7	10.5	12.2	14.5	15.8			26.0
28.0	7.5	8.4	10.3	12	14.2	15				8.1	9.7	11.3	13.4	14.3			28.0
30.0	7	7.8	9.5	11.2	13.1	13.8				7.5	9.2	10.2	12.4	13.1			30.0
32.0	6.5	7.2	8.9	10.2	12.1	12.5				7	8.6	9.5	11.5	12.1			32.0
34.0	6	6.6	8.4	9.5	11.3	11.5				6.6	8	8.7	10.6	11			34.0
36.0	5.6	6.3	7.7	8.7	10.5	10.5				6.2	7.5	8.2	9.9	10.2			36.0
38.0	5.3	6	7.2	8.1	9.6	9.6				5.8	7	7.6	9.2	9.3			38.0
40.0	4.9	5.5	6.8	7.5	9.1	8.8				5.5	6.5	7.2	8.2	8.6			40.0
42.0	4.6	5.3	6.3	7	8.5	7.9				5.1	6.2	6.5	7.7	7.7			42.0
44.0	4.3	5	6	6.5	7.5	7				4.8	5.8	6	7.4	7.2			44.0
46.0	4	4.7	5.5	6	6.8	6.3				4.6	5.5	5.7	7	6.6			46.0
48.0	3.8	4.4	5.2	5.5	6	5.6				4.3	5.2	5.5	6.8	5.8			48.0
50.0	3.5	3.9	4.9	5.1	5.5	4.8				4	4.8	5	6.2	5.2			50.0
52.0										3.8	4.5	4.7	5.4	4.6			52.0
54.0										3.6	4.2	4.2	4.6	4			54.0
56.0																	56.0
58.0																	58.0
60.0																	60.0
62.0																	62.0
64.0																	64.0
66.0																	66.0
68.0																	68.0
70.0																	70.0
72.0																	72.0
<b>N<sub>max</sub></b>	5										4					<b>N<sub>max</sub></b>	
<b>Hook</b>	70t										25t					<b>Hook</b>	
<b>Telescoping mode</b>	I	1	1	1	1	2	3			1	1	1	2	3	I	<b>Telescoping mode</b>	
	II	1	1	2	3	3	3			1	2	3	3	3	II		
	III	2	3	3	3	3	2			3	3	3	3	3	III		
	IV	3	3	3	3	2	2			3	3	3	3	2	IV		
	V	3	3	3	2	2	2			3	3	3	2	2	V		
	VI	3	3	2	2	2	2			3	3	2	2	2	VI		
	VII	3	2	2	2	2	2			3	2	2	2	2	VII		

Table 8-6 Main boom



14.6- 88m

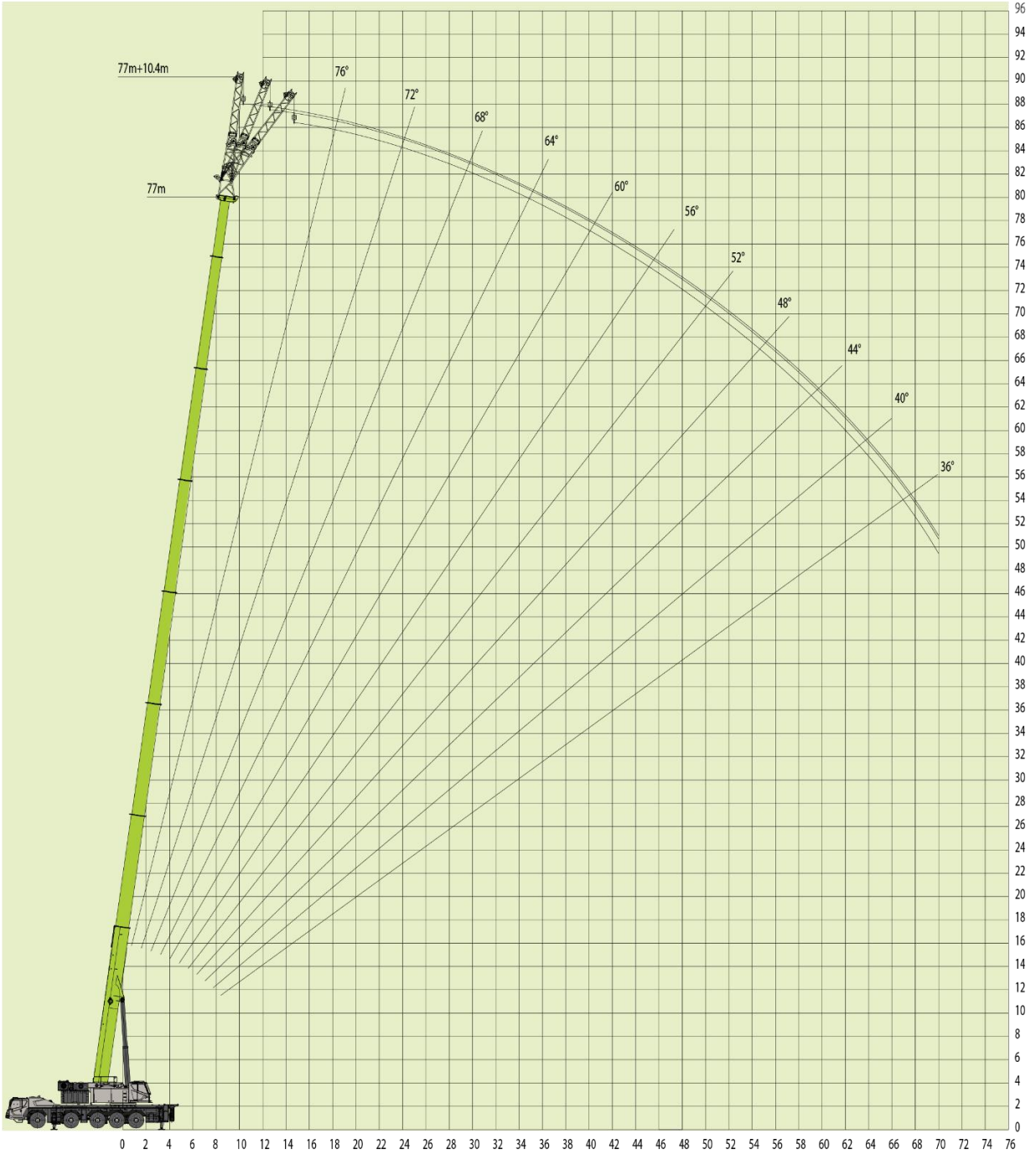
9.23×8.3m

72t

	67.4	67.4	67.4	67.4		72.2	72.2	72.2		77	77	81.8	85.8	88		
				★				★			★	★	★	★		
3.0															3.0	
3.5															3.5	
4.0															4.0	
4.5															4.5	
5.0															5.0	
6.0															6.0	
7.0															7.0	
8.0															8.0	
9.0															9.0	
10.0															10.0	
12.0															12.0	
14.0	15.5	17	19.5	20		14.5	15	15.5							14.0	
16.0	14.3	15.8	19.2	20		14	15	15.5		11.7	12.5				16.0	
18.0	13.1	14.5	18.1	20		13.5	15	15.5		11.7	12.5	9.5			18.0	
20.0	12.1	13.5	16.7	19.5		12.5	14.5	15.5		11.7	12.5	9.5	7.7	7.2	20.0	
22.0	11.1	12.5	15.3	18.2		11.6	13.5	15.3		11.5	12.5	9.5	7.7	7.1	22.0	
24.0	10.3	11.4	14.3	16		10.9	12.6	14		11	12.4	9.5	7.7	7	24.0	
26.0	9.6	10.6	13.1	14.7		10.2	11.8	13		10.5	12.2	9.5	7.7	6.9	26.0	
28.0	8.9	10	12.2	13.6		9.5	11	12		9.8	11.3	9.5	7.7	6.8	28.0	
30.0	8.4	9.4	11.2	12.6		9	10.2	11		9.5	10.5	9.5	7.6	6.6	30.0	
32.0	7.8	8.9	10.5	11.6		8.4	9.6	10.1		9	9.8	9	7.5	6.5	32.0	
34.0	7.3	8.3	9.7	10.7		8	8.9	9.4		8.5	9.2	8.5	7.3	6.4	34.0	
36.0	6.9	7.8	9	9.8		7.5	8.4	8.7		8	8.6	8	7	6.3	36.0	
38.0	6.5	7.3	8.5	9		7.1	7.9	8		7.6	8	7.6	6.8	6.2	38.0	
40.0	6.1	6.8	7.9	8.2		6.7	7.3	7.4		7.1	7.5	7.1	6.4	6.1	40.0	
42.0	5.8	6.3	7.4	7.6		6.4	6.9	7.1		6.8	6.9	6.7	6.2	6	42.0	
44.0	5.5	5.9	6.9	6.8		6	6.5	6.6		6.3	6.5	6.4	5.9	5.7	44.0	
46.0	5.2	5.5	6.4	6.1		5.6	6	5.8		5.9	6	6.1	5.7	5.6	46.0	
48.0	4.9	5.1	6	5.4		5.2	5.7	5.4		5.5	5.5	5.6	5.3	5.2	48.0	
50.0	4.7	4.7	5.5	5		4.9	5.3	5.1		5.2	5.2	5.3	5.1	4.9	50.0	
52.0	4.3	4.3	5.2	4.5		4.5	5	4.5		4.9	4.8	4.9	4.9	4.7	52.0	
54.0	4	4	4.7	4		4.2	4.5	4		4.6	4.5	4.6	4.5	4.3	54.0	
56.0	3.7	3.7	4.2	3.5		3.9	4.2	3.5		4.3	4.1	4.3	4.1	3.9	56.0	
58.0	3.4	3.4	4	3		3.6	3.8	3.1		4	3.7	3.8	3.7	3.5	58.0	
60.0						3.4	3.5	2.7		3.6	3.3	3.5	3.4	3.2	60.0	
62.0						3.2	3.3	2.4		3.4	3	3.1	3.2	3	62.0	
64.0						2.9	3	2.1		3.2	2.6	2.8	2.8	2.6	64.0	
66.0										2.9	2.3	2.5	2.5	2.4	66.0	
68.0										2.7	2	2.1	2.2	2.1	68.0	
70.0												1.8	2	1.8	70.0	
72.0												1.6	1.7	1.6	72.0	
74.0													1.5	1.4	74.0	
76.0													1.3	1.2	76.0	
78.0														1	78.0	
80.0															80.0	
<b>N<sub>max</sub></b>	4					3				3			3	2	2	<b>N<sub>max</sub></b>
<b>Hook</b>	25t															<b>Hook</b>
<b>Telescoping mode</b>	I	1	1	2	3		1	2	3		2	3	3	3	4	I
	II	2	3	3	3		3	3	3		3	3	3	3	4	II
	III	3	3	3	3		3	3	3		3	3	3	4	4	III
	IV	3	3	3	3		3	3	3		3	3	3	4	4	IV
	V	3	3	3	2		3	3	3		3	3	3	4	4	V
	VI	3	3	2	2		3	3	2		3	3	3	4	4	VI
	VII	3	2	2	2		3	2	2		3	2	3	4	4	VII

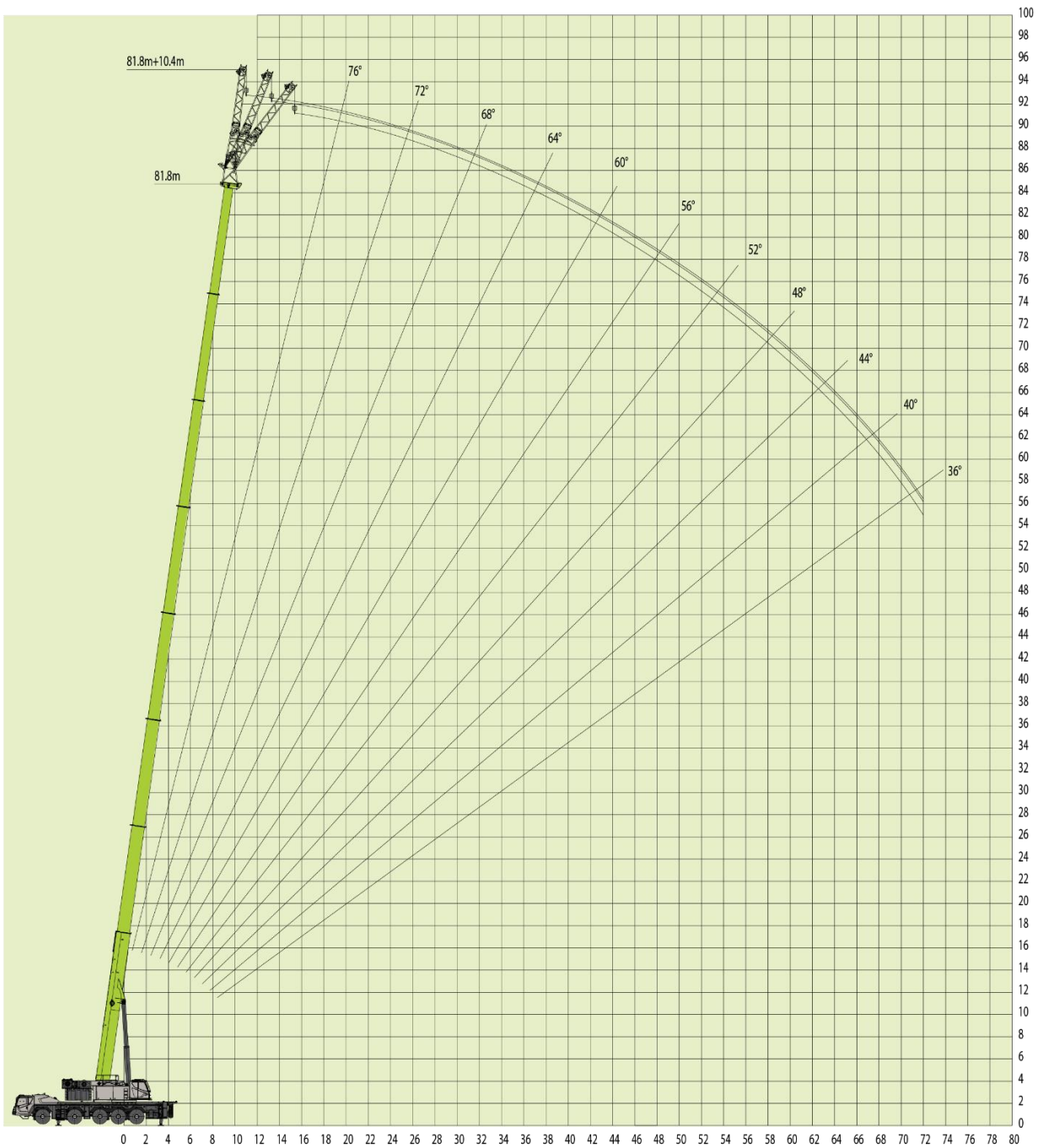
# Lifting heights + Lifting capacities

## 77m main boom + 10.4m jib OM



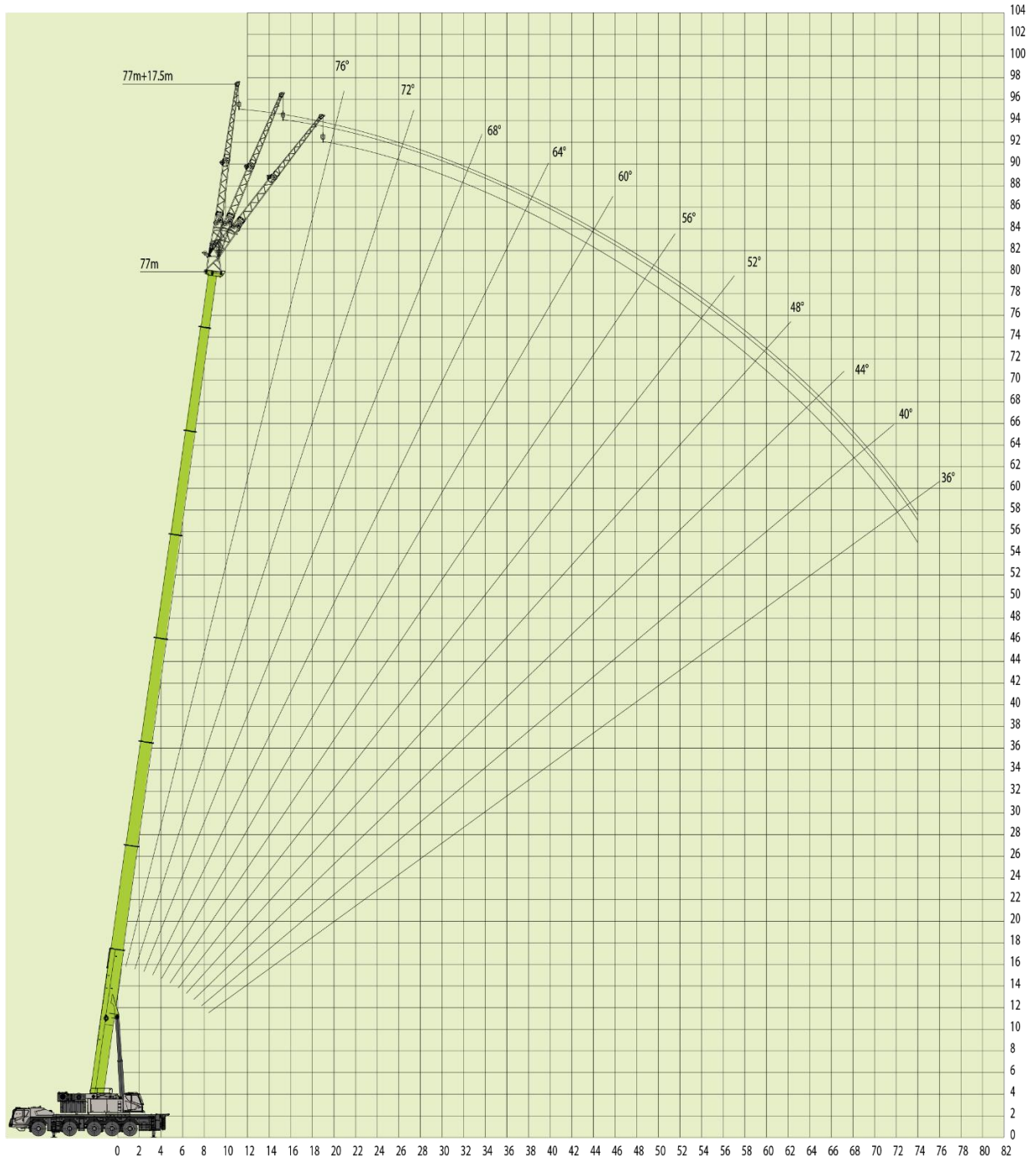
# Lifting heights + Lifting capacities

81.8m main boom + 10.4m jib OM



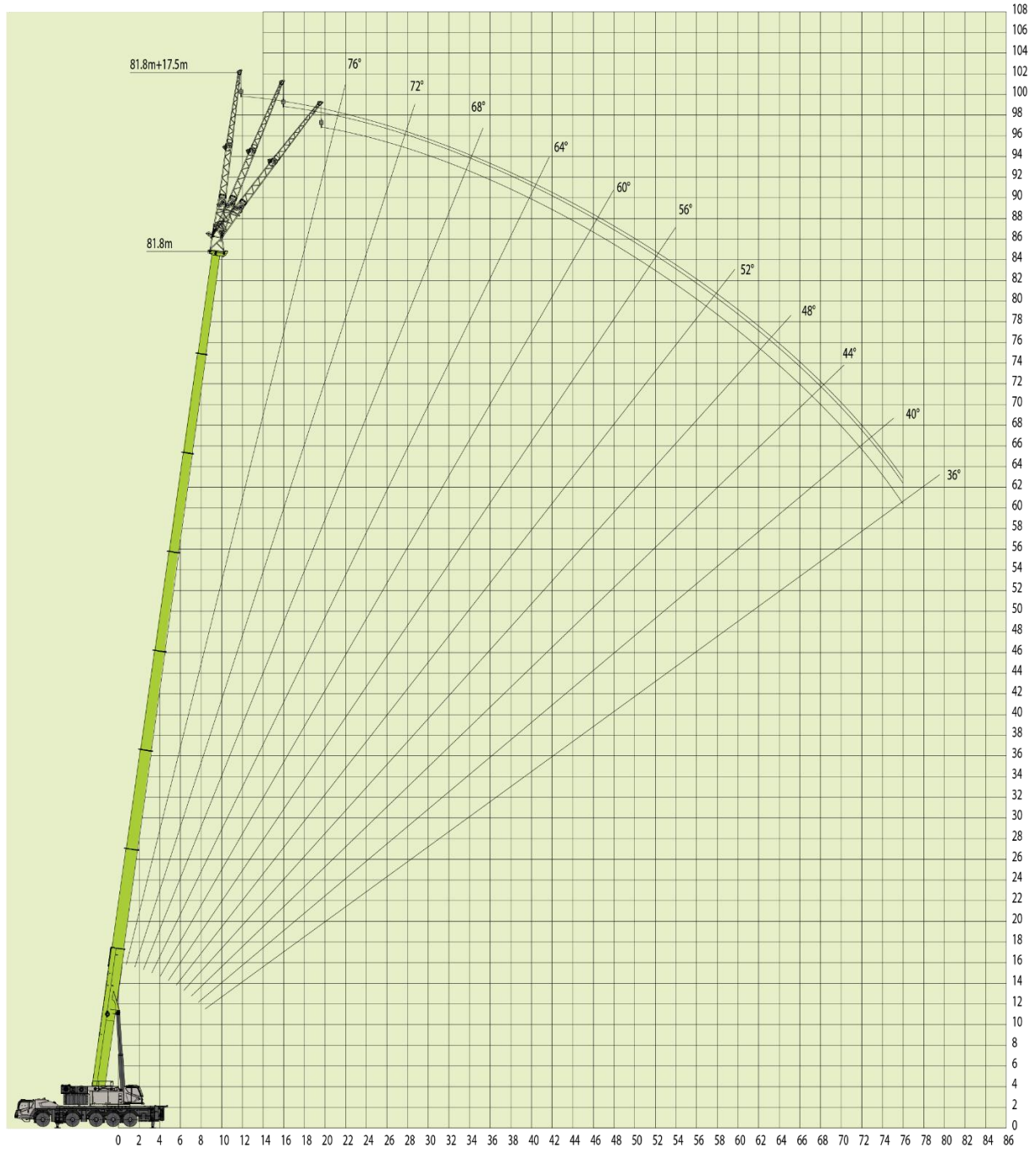
# Lifting heights + Lifting capacities

77m main boom + 17.5m jib OM



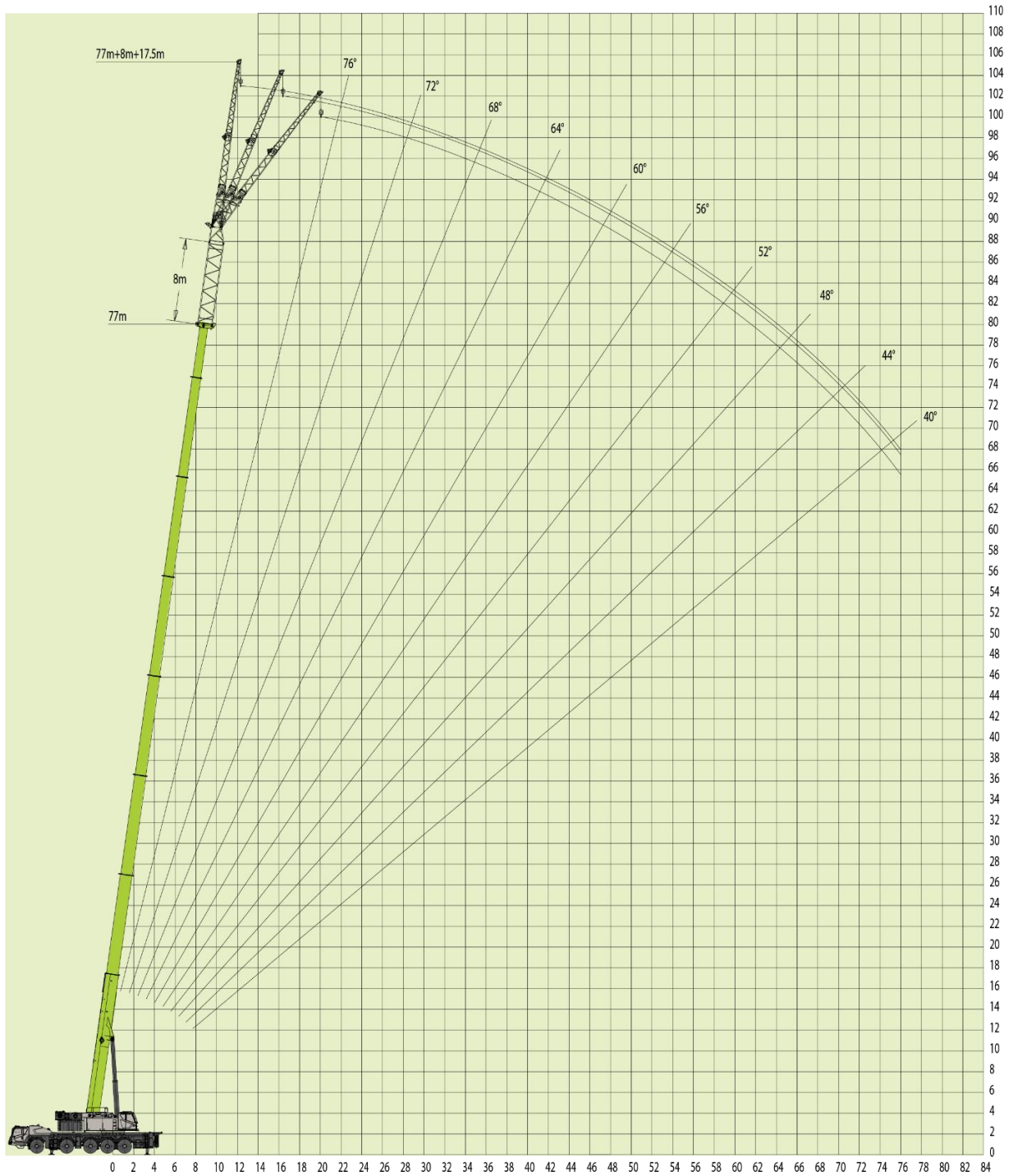
# Lifting heights + Lifting capacities

81.8m main boom + 17.5m jib OM



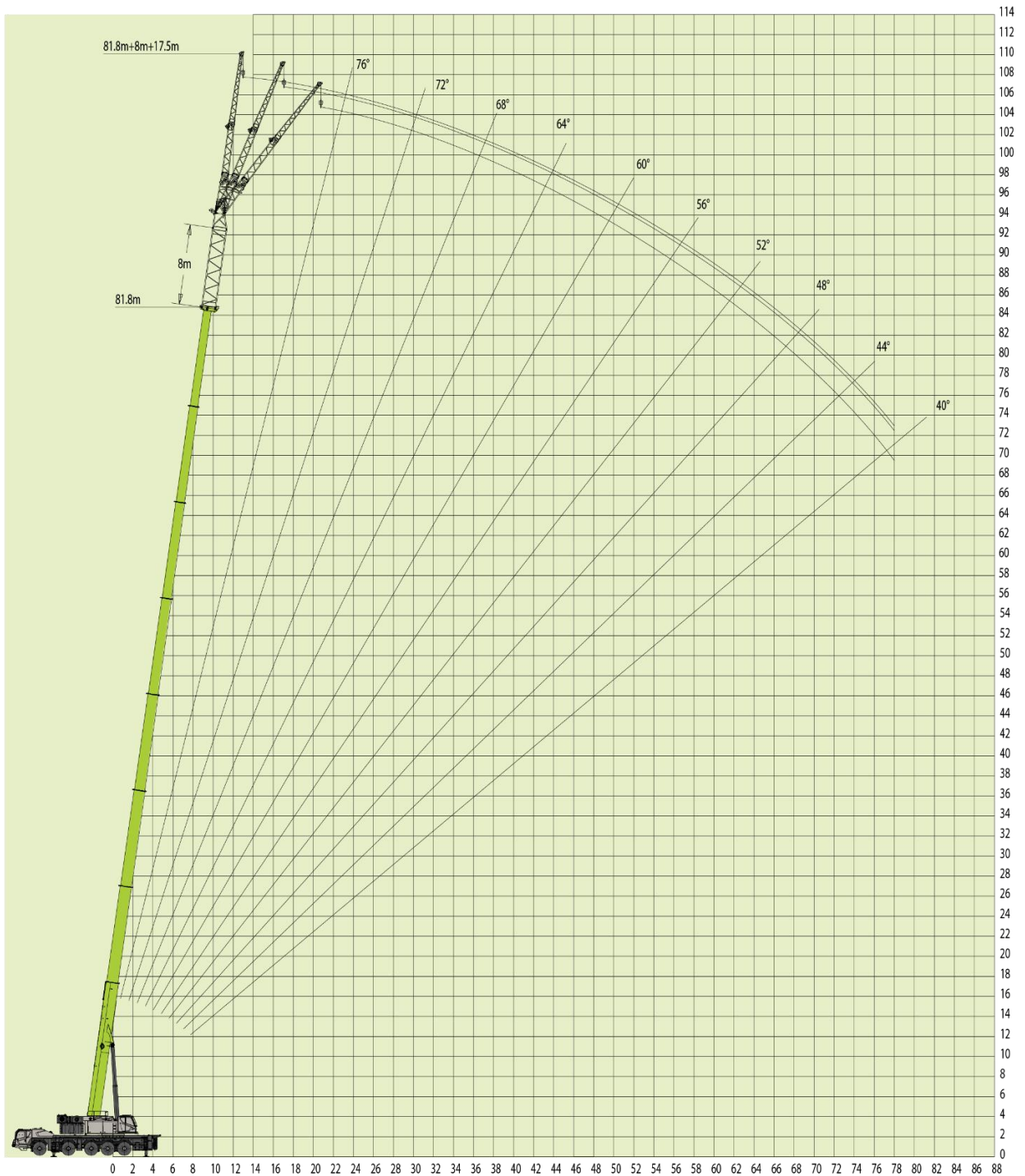
# Lifting heights + Lifting capacities

## 77m main boom + 25.5m jib OM



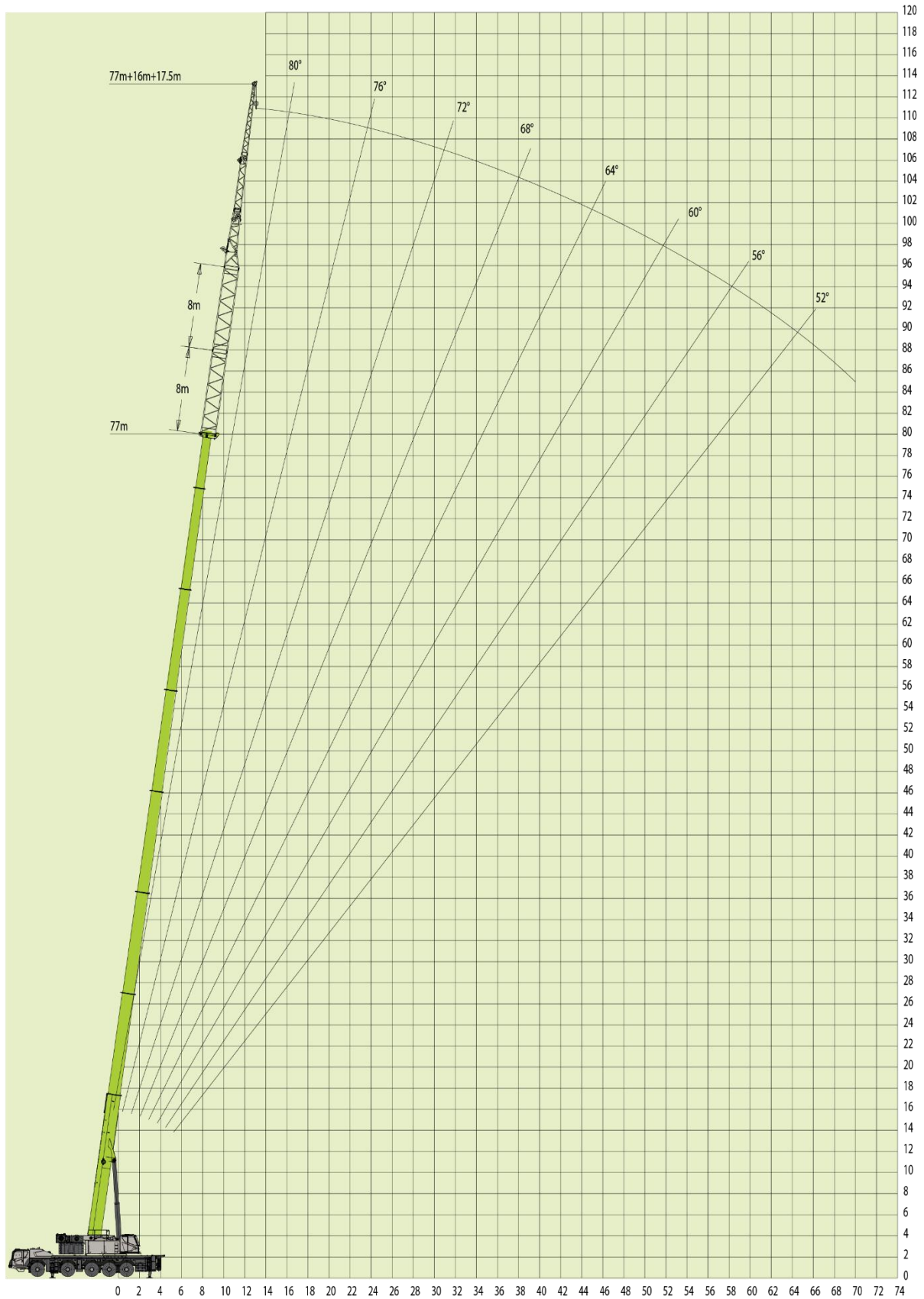
# Lifting heights + Lifting capacities

81.8m main boom + 25.5m jib OM



# Lifting heights + Lifting capacities

77m main boom + 33.5m jib OM



# Lifting heights + Lifting capacities

81.8m main boom + 33.5m jib OM

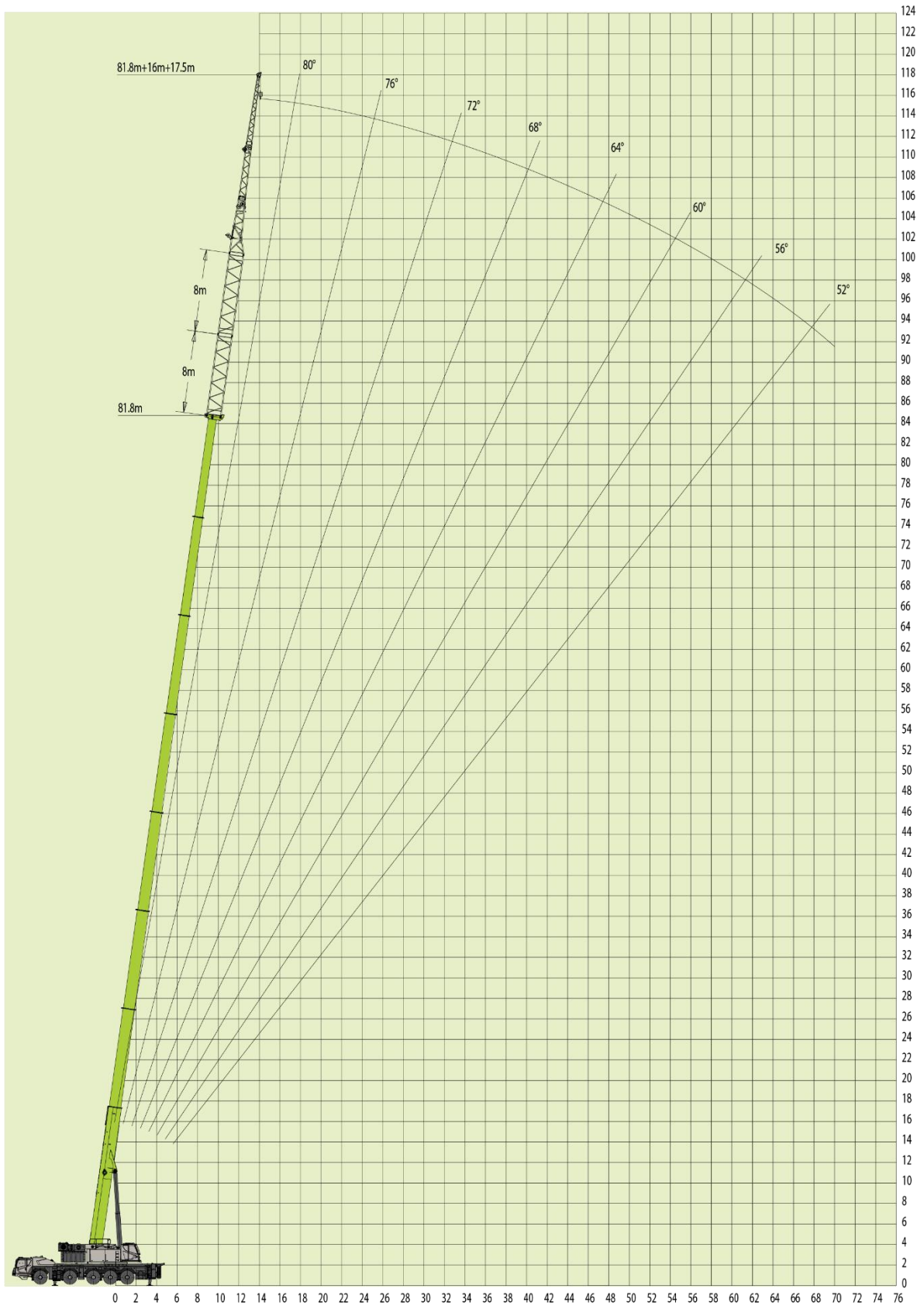
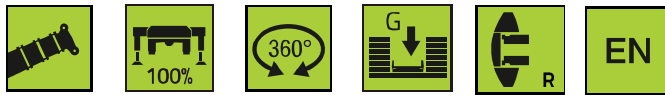


Table 9 main boom + jib



77- 81.8m

9.23\*8.3m

72t

	Main boom (m) + Jib (m) + Offset (°)																				
	77			81.8			77			81.8			77			81.8			77	81.8	
	10.4			10.4			17.5			17.5			25.5			25.5			33.5	33.5	
	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	0°	
22.0	7.2	6.8					4														22.0
24.0	7.1	6.8	6.3	5.7			3.8	3		3.5											24.0
26.0	7	6.8	6.3	5.5	5.6		3.7	3	2.7	3.4	2.9		2.6								26.0
28.0	6.8	6.6	6.2	5.4	5.4	5.4	3.6	2.9	2.7	3.3	2.8	2.5	2.6	2.2							28.0
30.0	6.7	6.4	6.1	5.3	5.2	5.3	3.5	2.9	2.5	3.2	2.7	2.5	2.5	2.2	2	2.1			1.5		30.0
32.0	6.4	6.2	5.9	5.2	5.1	5.1	3.4	2.9	2.5	3	2.7	2.4	2.5	2.2	2	2.1	1.9		1.5	1.3	32.0
34.0	6.2	6	5.7	5	5	5	3.3	2.8	2.4	2.9	2.6	2.4	2.4	2.1	2	2.1	1.9	1.8	1.5	1.3	34.0
36.0	5.9	5.6	5.4	4.9	4.8	4.8	3.2	2.8	2.4	2.9	2.6	2.3	2.4	2.1	1.9	2.1	1.8	1.8	1.4	1.3	36.0
38.0	5.7	5.4	5.3	4.8	4.8	4.7	3.2	2.8	2.4	2.7	2.5	2.3	2.3	2.1	1.9	2.1	1.7	1.7	1.4	1.3	38.0
40.0	5.5	5.2	5.2	4.6	4.6	4.6	3	2.6	2.4	2.7	2.5	2.2	2.3	2	1.9	2.1	1.7	1.6	1.4	1.3	40.0
42.0	5.2	5.1	5	4.5	4.4	4.4	2.9	2.6	2.4	2.6	2.4	2.2	2.3	2	1.8	2	1.7	1.6	1.3	1.3	42.0
44.0	4.7	4.9	4.9	4.4	4.3	4.2	2.8	2.6	2.3	2.6	2.4	2.2	2.3	2	1.8	2	1.7	1.6	1.3	1.3	44.0
46.0	4.6	4.6	4.7	4.2	4.1	4.1	2.8	2.6	2.3	2.5	2.3	2.2	2.2	1.9	1.8	2	1.7	1.6	1.3	1.3	46.0
48.0	4.2	4.4	4.3	4	4	4	2.7	2.5	2.3	2.5	2.3	2.1	2.2	1.9	1.7	2	1.7	1.6	1.3	1.2	48.0
50.0	4.1	4.1	4.1	3.9	3.8	3.9	2.7	2.5	2.3	2.4	2.2	2.1	2.2	1.9	1.7	2	1.6	1.5	1.3	1.2	50.0
52.0	3.8	3.8	3.9	3.7	3.6	3.7	2.6	2.5	2.2	2.4	2.2	2.1	2.2	1.8	1.7	1.9	1.6	1.5	1.2	1.2	52.0
54.0	3.5	3.5	3.6	3.4	3.4	3.4	2.6	2.4	2.2	2.3	2.2	2.1	2.2	1.8	1.6	1.9	1.6	1.5	1.2	1.2	54.0
56.0	3.2	3.2	3.2	3.1	3.1	3.1	2.6	2.3	2.2	2.3	2.2	2	2.1	1.8	1.6	1.9	1.6	1.5	1.2	1.2	56.0
58.0	2.8	2.9	2.9	2.8	2.8	2.8	2.5	2.3	2.1	2.3	2.1	2	2.1	1.8	1.6	1.9	1.6	1.5	1.2	1.2	58.0
60.0	2.5	2.6	2.5	2.6	2.6	2.6	2.4	2.2	2.1	2.2	2.1	2	2	1.8	1.6	1.8	1.6	1.5	1.1	1.2	60.0
62.0	2.2	2.3	2.3	2.4	2.4	2.4	2.3	2.2	2.1	2.2	2.1	2	2	1.8	1.6	1.8	1.6	1.5	1.1	1.2	62.0
64.0	2	2.1	2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.9	1.9	1.8	1.6	1.7	1.5	1.4	1.1	1.1	64.0
66.0	1.8	1.8	1.8	1.9	1.9	1.9	2	2	1.9	2.1	2	1.9	1.8	1.8	1.5	1.6	1.5	1.4	1.1	1.1	66.0
68.0	1.5	1.6	1.5	1.7	1.8	1.7	1.8	1.8	1.8	1.8	2	1.9	1.7	1.7	1.5	1.5	1.4	1.4	1.1	1.1	68.0
70.0	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.6	1.7	1.7	1.8	1.8	1.6	1.5	1.5	1.4	1.4	1.4	1.1	1.1	70.0
72.0				1.2	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.4	1.4	1.4	1.2	1.2	1.2			72.0
74.0							1.2	1.2	1.2	1.2	1.3	1.3	1.2	1.2	1.2	1.1	1.1	1.1			74.0
76.0										1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1			76.0
78.0																1.1	1.1	1.1			78.0
80.0																					80.0
82.0																					82.0
84.0																					84.0
86.0																					86.0
88.0																					88.0
N <sub>max</sub>	1																				N <sub>max</sub>
Hook	9t																				Hook

Note:

Telescoping combination of 77 m boom length: 3333332

Telescoping combination of 81.8 m boom length: 3333333

10.4 m jib: Adaptor I + adaptor II + jib section I

17.5 m jib: Adaptor I + adaptor II + jib section I + jib section II

25.5 m jib: 8 m Extension + adaptor I + adaptor II + jib section I + jib section II

33.5 m jib: 8 m Extension + 8 m extension + adaptor I + adaptor II + jib section I + jib section II

# Lifting heights + Lifting capacities

## Main boom + tip boom OM

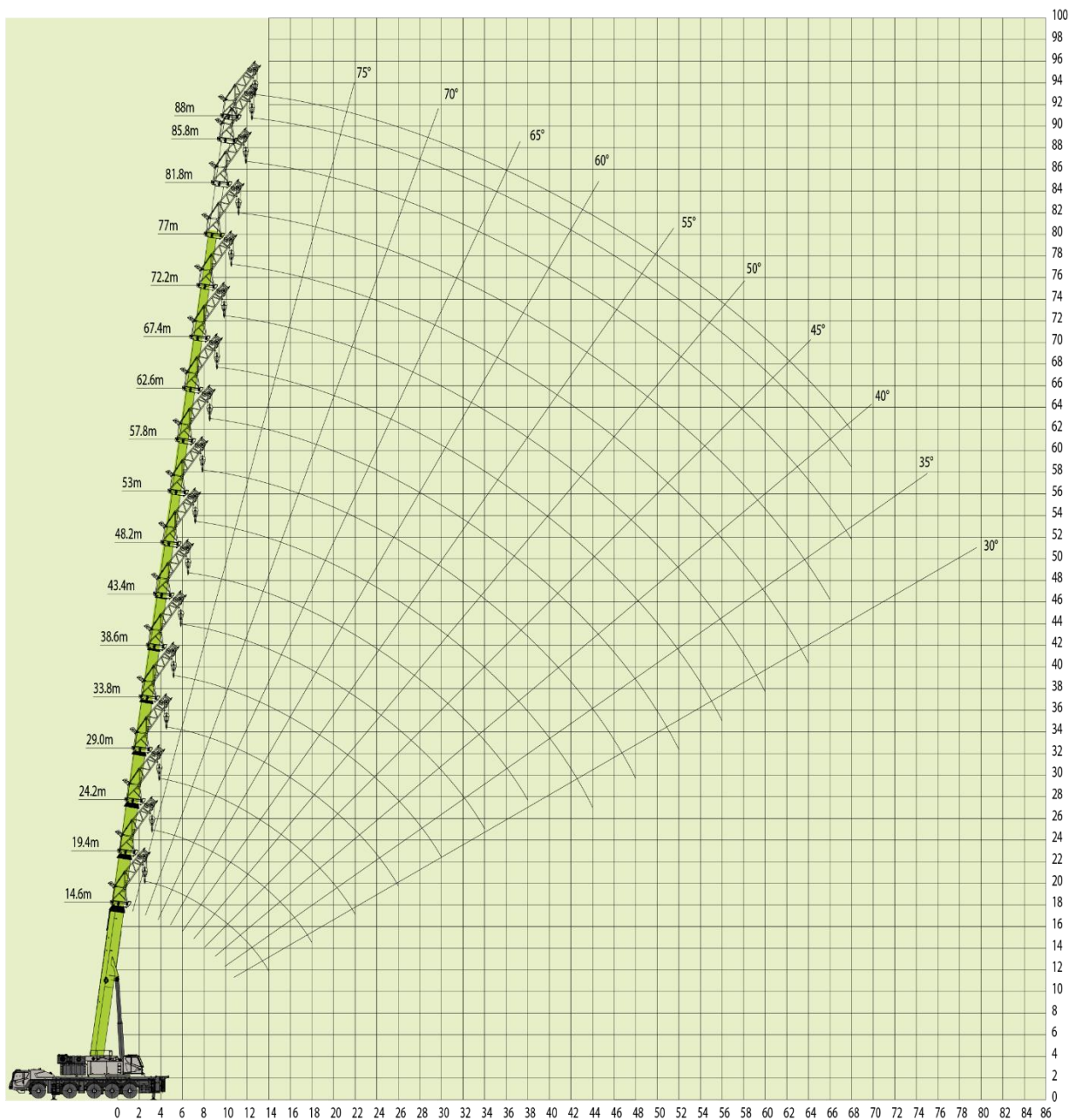


Table 10-1 Main boom + Tip boom



14.6- 88m

9.23×8.3m

72t



	Main boom (m) + 4.9 m tip boom															
	14.6 ★	19.4	19.4	19.4	19.4	19.4	19.4	★	24.2	24.2	24.2	24.2	24.2	24.2	24.2	
3.0																3.0
3.5	24.0															3.5
4.0	23.9	22.5	23.0	23.0	23.0	23.0	23.0									4.0
4.5	23.8	22.3	22.6	22.6	22.6	22.6	22.6									4.5
5.0	23.7	22.1	22.4	22.4	22.4	22.4	22.4	21.5	22	22.3	23	23	23.5	23.5		5.0
6.0	22.6	21.8	22.0	22.0	22.0	22.0	22.0	21.5	21.8	22	22.6	22.6	23	23.0		6.0
7.0	21.8	21.5	21.7	21.7	21.7	21.7	21.7	21.3	21.5	21.7	22.3	22.3	22.5	22.5		7.0
8.0	21.2	20.8	21.0	21.0	21.0	21.0	21.0	20.6	21.3	21.5	21.8	21.8	22	22.0		8.0
9.0	20.7	20.3	20.5	20.5	20.5	20.5	20.5	20	20.8	21	21.3	21.3	21.5	21.6		9.0
10.0	19.9	20.0	20.3	20.3	20.3	20.3	20.3	19.1	20.4	20.5	20.8	20.8	21.1	21.3		10.0
12.0	18.2	19.2	19.3	19.3	19.3	19.3	19.3	17.8	19.1	19.5	19.8	19.8	20.5	20.6		12.0
14.0	17.1	18.1	18.4	18.4	18.4	18.4	18.4	16.8	17.2	18.6	19	19	19.5	19.8		14.0
16.0		17.6	17.9	17.9	17.9	17.9	17.9	15.9	15.3	18	18.2	18.2	18.7	19.0		16.0
18.0		16.6	16.7	16.7	16.7	16.7	17.5	15.2	14	17.7	17.7	17.7	18.1	18.3		18.0
20.0								14.5	12.6	17.2	17.5	17.5	17.8	17.9		20.0
22.0								14	11.5	15.5	17.1	17.1	17.5	17.7		22.0
24.0																24.0
26.0																26.0
28.0																28.0
30.0																30.0
32.0																32.0
34.0																34.0
36.0																36.0
38.0																38.0
40.0																40.0
42.0																42.0
44.0																44.0
46.0																46.0
48.0																48.0
50.0																50.0
52.0																52.0
54.0																54.0
56.0																56.0
58.0																58.0
60.0																60.0
62.0																62.0
64.0																64.0
66.0																66.0
68.0																68.0
70.0																70.0
72.0																72.0
<b>N<sub>max</sub></b>	3	3						3						<b>N<sub>max</sub></b>		
<b>Hook</b>	25t															<b>Hook</b>
<b>Telescoping mode</b>	I	1	1	1	1	1	1	1	1	1	1	1	1	1	2	I
	II	1	1	1	1	1	1	2	1	1	1	1	1	2	2	II
	III	1	1	1	1	1	2	1	1	1	1	1	2	2	1	III
	IV	1	1	1	1	2	1	1	1	1	1	2	2	1	1	IV
	V	1	1	1	2	1	1	1	1	1	2	2	1	1	1	V
	VI	1	1	2	1	1	1	1	1	1	2	2	1	1	1	VI
	VII	1	2	1	1	1	1	1	1	3	2	1	1	1	1	VII

Table 10-2 Main boom + Tip boom



14.6-88m

9.23×8.3m

72t



	Main boom (m) + 4.9 m tip boom															
	29	29	29	29	29	29	29	★	33.8	33.8	33.8	33.8	33.8	33.8		★
3.0																3.0
3.5																3.5
4.0																4.0
4.5																4.5
5.0																5.0
6.0	18.2	19.5	21.8	22.1	22.3	22.8	23.0									6.0
7.0	17.5	18	21.7	22	22	22.3	22.5	16	17.5	21.5	21.8	22	22.3	22.5	7.0	
8.0	16	16.7	21.5	21.8	21.8	21.9	22.0	14.5	16.5	21.4	21.7	21.8	22	22.2	8.0	
9.0	14.8	15.2	21	21.5	21.5	21.7	21.8	13.5	15.3	19.8	21.5	21.7	21.8	22.0	9.0	
10.0	13.7	14	20.8	21.3	21.3	21.5	21.6	12.4	14	18.3	21.2	21.4	21.5	21.6	10.0	
12.0	12.8	12	20	20.6	20.6	20.9	21.0	10.9	12.3	16	20.6	20.8	20.9	21.0	12.0	
14.0	10.5	10.8	19.2	19.7	19.7	20.1	20.2	9.6	10.8	14	19.6	20.1	20.4	20.5	14.0	
16.0	9.6	9.5	17.4	18.8	18.8	19.7	19.8	8.5	9.6	12.5	18.8	19.3	19.8	20.0	16.0	
18.0	8.6	8.5	15.8	18.3	18.3	18.9	19.0	7.8	8.6	11	17.4	18.7	19.3	19.5	18.0	
20.0	7.8	7.8	14.5	17.7	17.9	18.2	18.4	7	7.8	10.2	15.9	18	18.8	19.2	20.0	
22.0	7.2	7	13.4	17.1	17.3	17.8	17.9	6.3	7.1	9.3	14.8	17.7	18.3	18.6	22.0	
24.0	6.6	6.5	12.4	16	17.1	17	16.8	5.8	6.6	8.5	13.8	17.3	17.8	18.2	24.0	
26.0	6.1	6	11.5	14.5	16.9	16.5	16.2	5.3	6	7.7	12.7	16.7	17.2	17.0	26.0	
28.0								4.9	5.5	7.2	11.8	15.4	16	14.7	28.0	
30.0								4.5	5.2	6.7	11.2	14.5	14	12.8	30.0	
32.0															32.0	
34.0															34.0	
36.0															36.0	
38.0															38.0	
40.0															40.0	
42.0															42.0	
44.0															44.0	
46.0															46.0	
48.0															48.0	
50.0															50.0	
52.0															52.0	
54.0															54.0	
56.0															56.0	
58.0															58.0	
60.0															60.0	
62.0															62.0	
64.0															64.0	
66.0															66.0	
68.0															68.0	
70.0															70.0	
72.0															72.0	
74.0															74.0	
76.0															76.0	
<b>N<sub>max</sub></b>	3							3							<b>N<sub>max</sub></b>	
<b>Hook</b>	25t														<b>Hook</b>	
<b>Telescoping mode</b>	I	1	1	1	1	1	1	2	1	1	1	1	1	1	2	I
	II	1	1	1	1	1	2	2	1	1	1	1	1	2	2	II
	III	1	1	1	1	2	2	2	1	1	1	1	2	2	2	III
	IV	1	1	1	2	2	2	1	1	1	1	2	2	2	2	IV
	V	1	1	2	2	2	1	1	1	2	3	2	2	2	1	V
	VI	2	3	2	2	1	1	1	3	3	2	2	2	1	1	VI
	VII	3	2	2	1	1	1	1	3	2	2	2	1	1	1	VII

Table 10-3 Main boom + Tip boom



14.6-88m

9.23×8.3m

72t



	Main boom (m) + 4.9 m tip boom															
	38.6	38.6	38.6	38.6	38.6	38.6	38.6 ★	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4 ★	
3.0																3.0
3.5																3.5
4.0																4.0
4.5																4.5
5.0																5.0
6.0																6.0
7.0																7.0
8.0	15.0	16.8	17.3	21.3	21.5	22.0	22.0									8.0
9.0	13.7	15.8	16.0	20.5	21.0	21.5	21.5	14.2	14.8	16.6	20.8	20.9	21.6	21.6		9.0
10.0	12.7	14.7	14.8	19.0	20.7	21.2	21.2	13.5	13.7	15.5	19.7	20.6	21.2	21.2		10.0
12.0	12.0	13.8	13.7	17.7	20.0	20.9	20.9	11.8	11.9	13.7	17.1	19.8	20.5	20.8		12.0
14.0	11.3	13.0	12.8	16.5	19.8	20.4	20.4	10.5	10.5	12	15.1	18.9	19.8	20.3		14.0
16.0	9.9	11.5	11.2	14.5	19.0	20.0	20.0	9.4	9.3	10.8	13.4	16.9	19.2	19.9		16.0
18.0	8.8	10.4	10.0	13.0	18.4	19.4	19.6	8.5	8.2	9.7	12	15.2	18.8	19.6		18.0
20.0	7.9	9.4	9.0	11.6	17.1	18.9	19.3	7.8	7.4	8.8	10.8	13.7	18	19.3		20.0
22.0	7.2	8.6	8.1	10.4	15.8	18.4	19.1	7.1	6.7	8.1	9.9	12.5	17.2	19.0		22.0
24.0	6.5	7.8	7.3	9.5	14.8	18.0	18.6	6.5	6.1	7.3	9	11.4	16.2	18.6		24.0
26.0	5.9	7.2	6.7	8.6	14.0	17.6	17.8	6	5.5	6.7	8.2	10.4	15.3	17.7		26.0
28.0	5.4	6.7	6.1	7.9	13.0	16.8	15.5	5.5	5.1	6.3	7.5	9.6	14.5	16.2		28.0
30.0	5.0	6.2	5.6	7.3	12.2	15.0	13.6	5.1	4.7	5.7	6.9	8.9	13.6	14.3		30.0
32.0	4.6	5.8	5.1	6.8	11.7	13.3	11.9	4.8	4.3	5.4	6.4	8.1	13	12.7		32.0
34.0	4.3	5.4	4.8	6.2	11.0	11.8	10.4	4.5	3.9	4.9	5.9	7.6	12.4	11.2		34.0
36.0								4.2	3.6	4.7	5.5	7.1	11.4	9.9		36.0
38.0								3.9	3.3	4.3	5.1	6.6	10.3	8.9		38.0
40.0																40.0
42.0																42.0
44.0																44.0
46.0																46.0
48.0																48.0
50.0																50.0
52.0																52.0
54.0																54.0
56.0																56.0
58.0																58.0
60.0																60.0
62.0																62.0
64.0																64.0
66.0																66.0
68.0																68.0
70.0																70.0
72.0																72.0
<b>N<sub>max</sub></b>	3							3							<b>N<sub>max</sub></b>	
<b>Hook</b>	25t															<b>Hook</b>
<b>Telescoping mode</b>	I	1	1	1	1	1	1	2	1	1	1	1	1	1	2	I
	II	1	1	1	1	1	2	2	1	1	1	1	1	2	2	II
	III	1	1	1	1	2	2	2	1	1	1	2	3	2	2	III
	IV	1	1	2	3	2	2	2	1	2	3	3	2	2	2	IV
	V	2	3	3	2	2	2	2	3	3	3	2	2	2	2	V
	VI	3	3	2	2	2	2	1	3	3	2	2	2	2	2	VI
	VII	3	2	2	2	2	1	1	3	2	2	2	2	2	1	VII
																<b>Telescoping mode</b>

Table 10-4 Main boom + Tip boom



16.4-88m

9.23×8.3m

72t



	Main boom (m) + 4.9 m tip boom															
	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	53	53	53	53	53	53		53
3.0																3.0
3.5																3.5
4.0																4.0
4.5																4.5
5.0																5.0
6.0																6.0
7.0																7.0
8.0																8.0
9.0																9.0
10.0																10.0
12.0	11.4	12.6	14.3	17.8	19	19.5	19.8	11.9	13.1	14.8	19.1	19.7	19.7	19.7	12.0	
14.0	10.1	11.2	12.8	15.8	19	19.2	19.5	10.5	11.7	13.3	17.2	19.2	19.3	19.3	14.0	
16.0	8.9	10	11.5	14.3	17.5	18	19.1	9.5	10.6	12.1	15.5	17.1	18.6	18.6	16.0	
18.0	7.9	9	10.4	12.9	15.7	16.2	18.7	8.5	9.5	11	14.1	15.3	17.6	17.8	18.0	
20.0	7.1	8.1	9.5	11.7	14.2	15.4	18.0	7.7	8.7	10.1	12.9	13.8	16	17.3	20.0	
22.0	6.5	7.4	8.7	10.7	12.8	13.2	17.6	7	7.9	9.3	11.9	12.4	14.6	16.8	22.0	
24.0	5.9	6.8	8	9.8	11.7	12	17.1	6.4	7.3	8.6	10.9	11.3	13.3	16.2	24.0	
26.0	5.3	6.2	7.4	9.1	10.7	10.9	16.7	5.9	6.8	8	10.1	10.3	12.2	15.1	26.0	
28.0	4.9	5.7	6.8	8.3	9.9	10	16.2	5.4	6.2	7.5	9.3	9.4	11.3	14.0	28.0	
30.0	4.5	5.2	6.4	7.7	9.1	9.2	15.1	5	5.8	6.9	8.6	8.6	10.4	13.0	30.0	
32.0	4.1	4.9	5.9	7.2	8.3	8.5	13.4	4.6	5.3	6.5	7.8	7.8	9.6	12.1	32.0	
34.0	3.8	4.5	5.4	6.7	7.7	7.8	11.9	4.2	5	6.1	7.2	7.2	9	11.2	34.0	
36.0	3.5	4.1	5	6.2	7.1	7.3	10.7	4	4.6	5.7	6.7	6.6	8.4	10.2	36.0	
38.0	3.2	3.9	4.6	5.8	6.5	6.6	9.6	3.6	4.3	5.2	6.1	6	7.7	9.2	38.0	
40.0	3	3.6	4.3	5.4	6.1	6.2	8.5	3.3	4.1	4.9	5.7	5.6	7.2	8.1	40.0	
42.0	2.7	3.3	4	5	5.6	5.8	7.7	3.2	3.8	4.6	5.2	5.1	6.8	7.2	42.0	
44.0	2.5	3.1	3.7	4.8	5.3	5.3	6.8	2.9	3.5	4.2	4.9	4.7	6.3	6.4	44.0	
46.0								2.7	3.2	4	4.5	4.3	5.9	5.7	46.0	
48.0								2.5	3	3.7	4.1	4	5.5	4.9	48.0	
50.0															50.0	
52.0															52.0	
54.0															54.0	
56.0															56.0	
58.0															58.0	
60.0															60.0	
62.0															62.0	
64.0															64.0	
66.0															66.0	
68.0															68.0	
70.0															70.0	
72.0															72.0	
<b>N<sub>max</sub></b>	3							3							<b>N<sub>max</sub></b>	
<b>Hook</b>	25t														<b>Hook</b>	
<b>Telescoping mode</b>	I	1	1	1	1	1	1	2	1	1	1	1	2	3	I	
	II	1	1	1	1	2	3	2	1	1	1	2	3	3	2	II
	III	1	1	2	3	3	2	2	1	2	3	3	3	2	2	III
	IV	2	3	3	3	2	2	2	3	3	3	3	2	2	2	IV
	V	3	3	3	2	2	2	2	3	3	3	2	2	2	2	V
	VI	3	3	2	2	2	2	2	3	3	2	2	2	2	2	VI
	VII	3	2	2	2	2	2	2	3	2	2	2	2	2	2	VII

Table 10-5 Main boom + Tip boom



14.6-88m

9.23×8.3m

72t



	Main boom (m) + 4.9 m tip boom															
	57.8	57.8	57.8	57.8	57.8	57.8 ★					62.6	62.6	62.6	62.6		62.6 ★
3.0																3.0
3.5																3.5
4.0																4.0
4.5																4.5
5.0																5.0
6.0																6.0
7.0																7.0
8.0																8.0
9.0																9.0
10.0																10.0
12.0																12.0
14.0	10.8	12.2	14.1	18	18	18.2										14.0
16.0	9.9	11	12.9	16.5	17.5	17.5				10	11.5	13	16	16.3		16.0
18.0	9	10	11.8	14.8	16.6	16.9				9.3	10.7	12.5	15.5	15.8		18.0
20.0	8.2	9.2	10.9	13.2	14.9	16.2				8.6	9.8	11.6	14	15.0		20.0
22.0	7.5	8.5	10.1	12	13.7	15.0				7.8	9.1	10.8	13	13.9		22.0
24.0	6.8	7.7	9.4	10.8	12.5	14.0				7.2	8.5	10.1	11.8	13.0		24.0
26.0	6.3	7.2	8.7	9.8	11.4	13.1				6.7	7.8	9.5	10.9	12.1		26.0
28.0	5.9	6.7	8.2	9	10.4	12.2				6.2	7.3	8.8	10	11.3		28.0
30.0	5.4	6.2	7.7	8.2	9.6	11.5				5.8	6.8	8	9.2	10.6		30.0
32.0	5	5.8	7.2	7.5	8.9	10.7				5.4	6.4	7.4	8.5	9.9		32.0
34.0	4.7	5.4	6.8	6.8	8.2	10.1				5	6	6.8	7.7	9.2		34.0
36.0	4.3	5	6.4	6.3	7.6	9.4				4.7	5.7	6.1	7.2	8.7		36.0
38.0	4.1	4.8	5.9	5.8	7	8.7				4.4	5.3	5.7	6.7	7.9		38.0
40.0	3.8	4.4	5.5	5.2	6.5	8.0				4.1	5	5.1	6.1	7.3		40.0
42.0	3.5	4.1	5	4.9	6	7.2				3.9	4.7	4.8	5.7	6.6		42.0
44.0	3.3	4	4.7	4.4	5.6	6.5				3.7	4.4	4.3	5.2	6.1		44.0
46.0	3.1	3.7	4.3	4.1	5.1	5.7				3.4	4.2	4	4.8	5.5		46.0
48.0	2.9	3.4	4	3.7	4.8	5.0				3.2	4	3.6	4.4	4.9		48.0
50.0	2.7	3.2	3.7	3.3	4.4	4.3				3.1	3.7	3.3	4.1	4.3		50.0
52.0	2.5	3	3.3	3.1	4.1	3.7				2.9	3.4	3	3.8	3.7		52.0
54.0										2.7	3.1	2.7	3.4	3.1		54.0
56.0										2.5	2.9	2.4	3.2	2.7		56.0
58.0																58.0
60.0																60.0
62.0																62.0
64.0																64.0
66.0																66.0
68.0																68.0
70.0																70.0
72.0																72.0
<b>N<sub>max</sub></b>	3										2					<b>N<sub>max</sub></b>
<b>Hook</b>	25t										25t					<b>Hook</b>
<b>Telescoping mode</b>	I	1	1	1	1	2	3				1	1	1	2	3	I
	II	1	1	2	3	3	3				1	2	3	3	3	II
	III	2	3	3	3	3	2				3	3	3	3	3	III
	IV	3	3	3	3	2	2				3	3	3	3	2	IV
	V	3	3	3	2	2	2				3	3	3	2	2	V
	VI	3	3	2	2	2	2				3	3	2	2	2	VI
	VII	3	2	2	2	2	2				3	2	2	2	2	VII



Table 10-6 Main boom + Tip boom



14.6-88m

9.23x8.3m

72t


	Main boom (m) + 4.9 m tip boom															
	67.4	67.4	67.4	67.4 ★		72.2	72.2	72.2 ★		77	77 ★	81.8 ★	85.8 ★	88 ★		
4.0															4.0	
4.5															4.5	
5.0															5.0	
6.0															6.0	
7.0															7.0	
8.0															8.0	
9.0															9.0	
10.0															10.0	
12.0															12.0	
14.0															14.0	
16.0															16.0	
18.0	9.6	10.6	11	11.4		9.8	10.3	11.1							18.0	
20.0	9.1	10.2	10.8	11.1		9.3	10	10.7		8.2	8.8	7.5			20.0	
22.0	8.4	9.5	10.6	10.8		8.8	9.8	10.2		8	8.6	7.4			22.0	
24.0	7.8	9	10.1	10.4		8.2	9.3	9.8		7.6	8.2	7.2	5.6	5.6	24.0	
26.0	7.3	8.5	10	10.2		7.6	9	9.4		7.2	8.0	7.0	5.4	5.4	26.0	
28.0	6.8	7.9	9.5	9.9		7.2	8.5	9.0		6.8	7.6	6.9	5.3	5.3	28.0	
30.0	6.3	7.5	8.9	9.6		6.7	7.9	8.6		6.6	7.4	6.8	5.2	5.2	30.0	
32.0	5.9	7	8.2	9.1		6.3	7.5	8.3		6.3	7.1	6.5	5.0	5.0	32.0	
34.0	5.6	6.6	7.6	8.5		6	7.1	7.9		6	6.8	6.3	4.9	4.9	34.0	
36.0	5.2	6.1	7	8.0		5.7	6.7	7.5		6	6.5	6.0	4.7	4.7	36.0	
38.0	4.9	5.7	6.5	7.4		5.4	6.3	7.0		5.8	6.4	5.8	4.5	4.5	38.0	
40.0	4.6	5.2	5.9	6.9		5	5.9	6.6		5.5	6.0	5.4	4.4	4.4	40.0	
42.0	4.3	4.8	5.5	6.4		4.8	5.4	6.2		5.2	5.7	5.3	4.2	4.2	42.0	
44.0	4.1	4.4	5	5.8		4.5	5	5.7		5	5.4	5.1	4.0	4.0	44.0	
46.0	3.9	4.1	4.7	5.3		4.1	4.7	5.2		4.6	5.0	4.9	3.8	3.8	46.0	
48.0	3.7	3.7	4.3	4.8		3.8	4.3	4.9		4.2	4.7	4.7	3.7	3.7	48.0	
50.0	3.4	3.3	4	4.4		3.5	4	4.4		3.9	4.5	4.3	3.6	3.6	50.0	
52.0	3.2	3.1	3.7	4.0		3.2	3.7	3.9		3.6	4.1	4.0	3.5	3.5	52.0	
54.0	3.1	2.8	3.3	3.4		3	3.4	3.6		3.3	3.6	3.7	3.4	3.4	54.0	
56.0	2.9	2.5	3.1	3.0		2.7	3.1	3.1		3	3.2	3.4	3.2	3.2	56.0	
58.0	2.7	2.3	2.8	2.5		2.4	2.8	2.8		2.8	2.9	3.0	2.9	2.9	58.0	
60.0	2.5	2	2.5	2.1		2.2	2.6	2.4		2.5	2.6	2.7	2.6	2.6	60.0	
62.0						2	2.3	2.0		2.3	2.3	2.3	2.3	2.3	62.0	
64.0						1.8	2.1	1.6		2	2.0	2.0	1.9	1.9	64.0	
66.0										1.7	1.7	1.8	1.6	1.6	66.0	
68.0												1.5	1.3	1.3	68.0	
70.0															70.0	
72.0															72.0	
74.0															74.0	
76.0															76.0	
78.0															78.0	
80.0															80.0	
<b>N<sub>max</sub></b>	2					2				2		2	2	2	<b>N<sub>max</sub></b>	
<b>Hook</b>	25t														<b>Hook</b>	
<b>Telescoping mode</b>	I	1	1	2	3		1	2	3		2	3	3	3	4	I
	II	2	3	3	3		3	3	3		3	3	3	3	4	II
	III	3	3	3	3		3	3	3		3	3	3	4	4	III
	IV	3	3	3	3		3	3	3		3	3	3	4	4	IV
	V	3	3	3	2		3	3	3		3	3	3	4	4	V
	VI	3	3	2	2		3	3	2		3	3	3	4	4	VI
	VII	3	2	2	2		3	2	2		3	2	3	4	4	VII

**ZOOMLION**




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