200t

77.5m

74m

105.5m

ZOOMLION

TECHNICAL SPECIFICATIONS

ZAT2000V

All terrain crane

Edition 1 December 2024



ZOOMLION PAMPA MAQUINARIAS S.A.

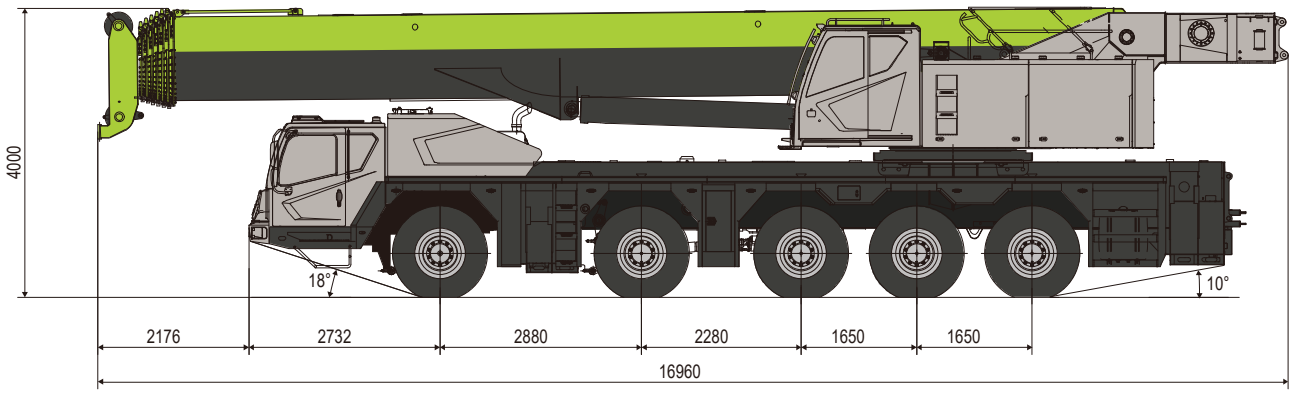
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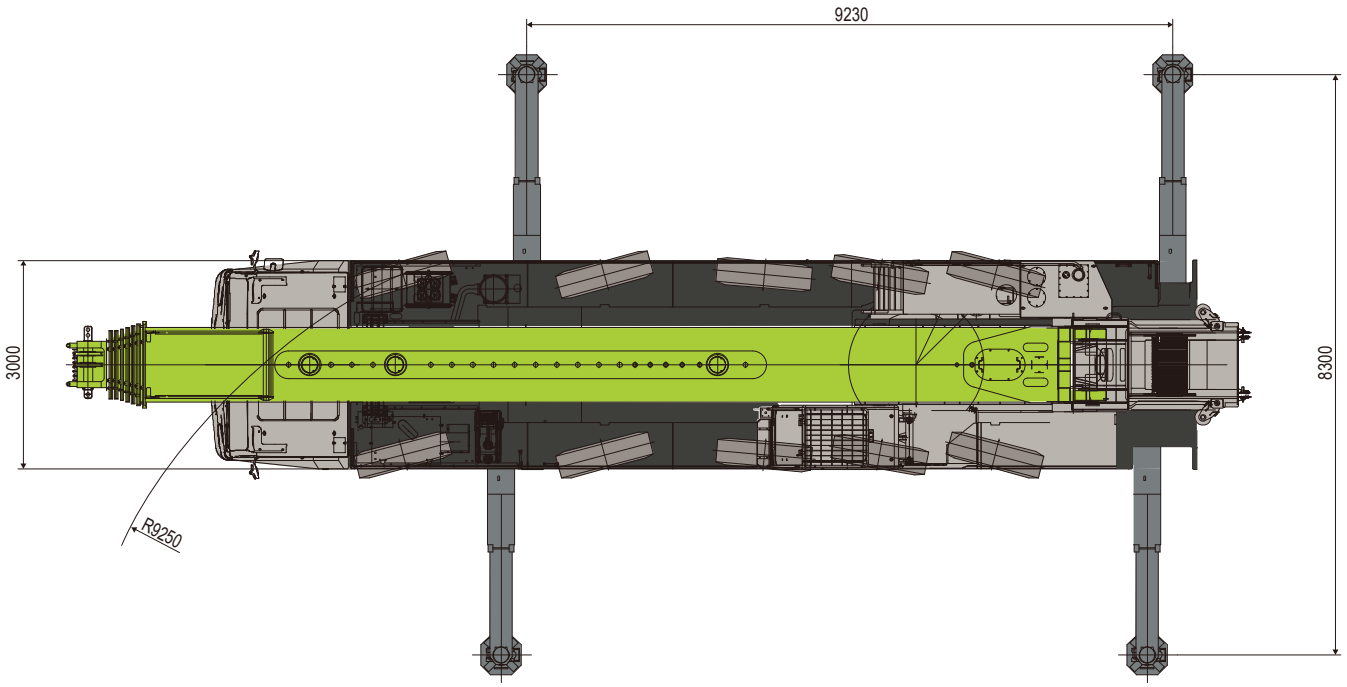
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Dimensions

Complete operation condition (unit: mm)





ZAT2000V753-1 introduction





77.5m

33.5m

60t

339kw

154kw

Technical data

Item			Value	Remarks
Work performance	Max. rated lifting capacity	t	200	
	Max. load moment of basic boom	t.m	540	
	Max. load moment of main boom (fully extended)	t.m	292.4	
	Max. lifting height of basic boom	m	14.3	
	Max. lifting height of main boom	m	77.5	These parameters do not include deflection of boom and jib.
	Max. lifting height of jib	m	105.5	
Work speeds	Max. hoist rope speed (main winch)	m/min	135	
	Boom derricking up time	s	70	
	Boom extending time	s	770	
	Slewing speed	r/min	0 - 1.6	
Driving	Max. operation altitude	m	2000	
	Max. driving speed	km/h	80	
	Max. gradeability	%	48/44	
	Min. turning diameter	m	18.5/20.5	
	Min. ground clearance	mm	326/385	
	Limits for exhaust pollutants and smoke		Europe V	
	Front overhang angle	°	18	
	Rear overhang angle	°	10	
Mass	Deadweight in driving condition (total mass)	kg	60000	
	Complete vehicle kerb mass	kg	59805	
	Single axle load	kg	12000/12000/12000/12000/12000	
Dimensions	Overall dimensions (L×W×H)	mm	16960×3000×4000	
	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	5820	
	Main boom length	m	14.3 - 77.5	
	Boom angle	°	-0.5 - 80	
	Jib length	m	10.4, 17.5	Option: 25.5m, 33.5m

Table of options

No.	Description	Remarks
1	Base plate of outrigger	Overall dimensions:1550mm*1550mm*120，4 pieces
2	Extension	Including 2 pieces of 8m extensions
3	Hook	Standard configuration: 60t (ramshorn hook), 8t Options: 110t, 90t, 70t (ramshorn hook), 25t

Hook (transported individually)

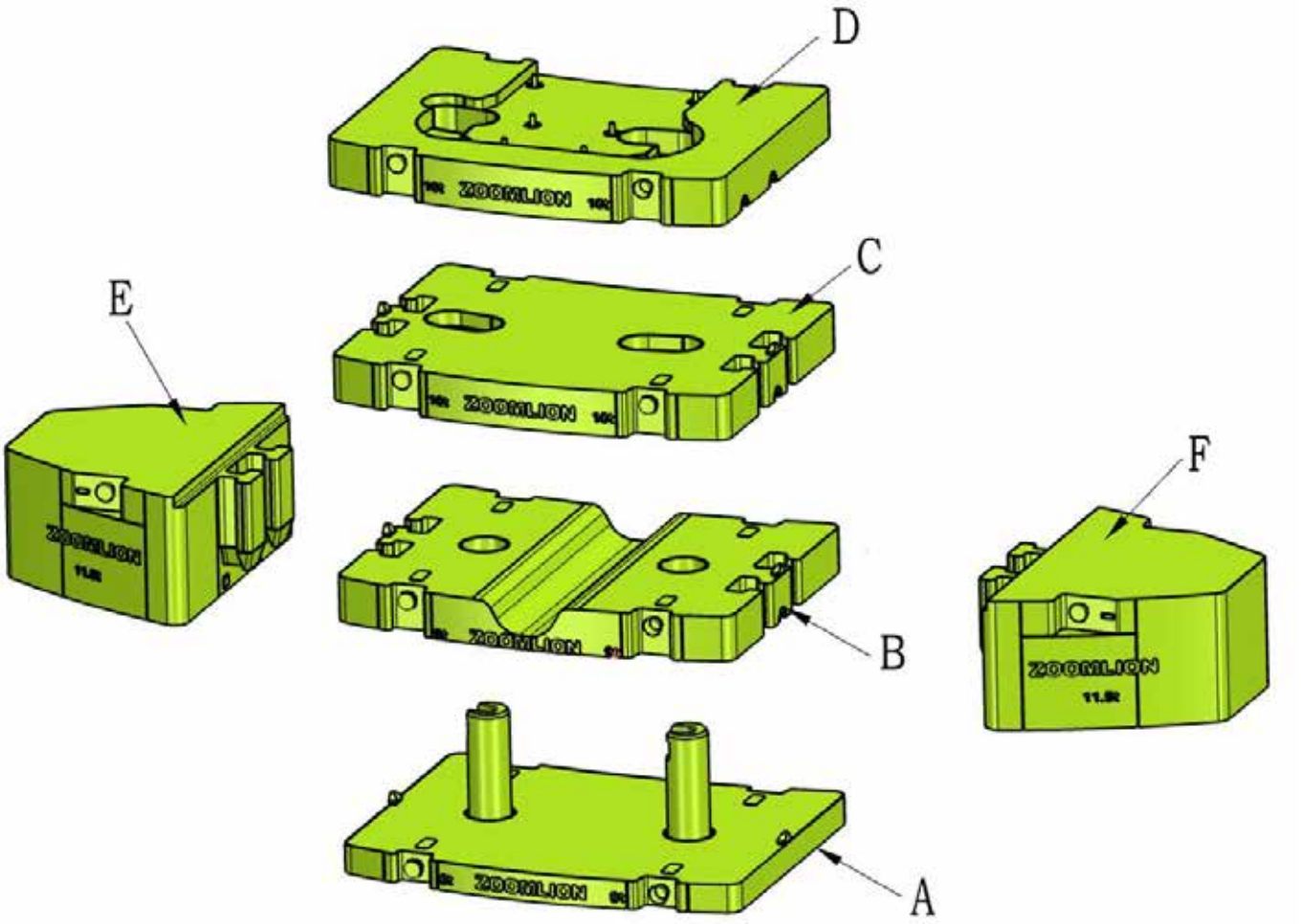


Specification	Weight (t)	Transport dimensions (mm)	Reeving	Single hook	Ramshorn hook	Standard/ optional configuration
110t	1.28	1835×805×650	14	-	Ramshorn hook	**O**
90t	1.05	1665×650×755	14	-	Ramshorn hook	**O**
70t	0.92	1580×650×700	10	-	Ramshorn hook	**O**
70t	0.9	1675×650×580	10	Single hook	-	**O**
60t	0.75	460×650×1580	8	-	Ramshorn hook	●
25t	0.58	1410×650×390	3	Single hook		**-O**
8t	0.38	φ405×900	1	Auxiliary hook	-	●

Wire rope

	 Diameter (mm)	 Length (m)	 Max. pulling force for single rope (t)
 Main hoist rope	φ20	360	9.3
 Auxiliary hoist rope	φ20	245	9.3

Counterweight



The counterweight needs to be transported individually.

	Description	Mass (t)	Transport dimensions (mm)	Quantity (piece)
A	Lower counterweight	8	3000x2350x980	1
B	Intermediate counterweight	9	3000x2350x340	1
C	Intermediate counterweight	10	3000x2350x340	1
D	Fixed counterweight	10	3000x2350x350	1
E	Side counterweight	11.5	2250x1600x950	1
F	Side counterweight	11.5	2250x1600x950	1

Counterweight combinations

Unit: piece

	A	B	C	D	E	F
0t	0	0	0	0	0	0
10t	0	0	0	1	0	0
18t	1	0	0	1	0	0
27t	1	1	0	1	0	0
37t	1	1	1	1	0	0
60t	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 O ——— optional configuration

Superstructure

● Main boom	• 7 boom sections made of 1100MPa high-tensile steel • Optimal oviform boom profile of particular tensional rigidity, outstanding local stability and for the super lifting capacities • Main boom length: 14.3 m – 77.5 m
● Jib	• Jib variants: 10.4 m, 17.5 m, 25.5 m (One section of 8 m extension is available for options.), 33.5 m (Two sections of 8 m extensions are available for options.) • Offset: jib section I is hinged to the head of telescopic section VI. There are three offsets，namely 0°, 15°, 30°. And the offsets can be changed via the rotating shaft and the chute. • The jib cannot be attached with the vehicle during driving.
●Telescoping system	• The telescopic boom is telescoped by the single-stage telescoping cylinder with hydraulic interlocking device. • Rapid-cycle telescoping system with “automatic mode”, i.e. all-automatic telescoping to the desired boom length in sequence.
● Hoist gear	• Hydraulic motor + planetary reducer • The main and auxiliary winches can be operated independently or simultaneously. • 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.
● Luffing gear	• One hydraulic cylinder, providing the boom with smooth luffing movements from -0.5° to 80°
● Slewing gear	• Two slewing gears, consisting of hydraulic motor and planetary reducer • Slewing speed: 0 – 1.6 rpm
● Slewing table	• Box-type, torsion resistant design of high-tensile steel, providing super load bearing capacity
● Operator’s cab	• 4.0 series spacious panoramic cab with sliding door, outward pushing windshield, front foot pedal, safe guard rail around the roof of the cab • 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. • Integrated bus key panel is compact, simple and reliable. Night vision background light is clear and makes night work safe. • 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. • It is with USB plug. And thus, it is chargeable. • The cab can be tilted for 0-20° to improve operator’s field of vision and reduce the

	operation intensity. • Cab heater and air conditioning.
● Counterweight	• 60t total counterweight among which 37t main body counterweights (4 pieces), 11.5t side counterweights (2 pieces) • Counterweight combinations include 0t, 10t, 18t, 27t, 37t and 60t.
● Hook	• Hook: 110t, 90t, 70t (ramshorn hook), 70t (single hook), 60t (ramshorn hook), 25t, 8t. • Among which, 60t (ramshorn hook) and 8t hooks are standard configurations. The rest ones are available for options.
● Hood	• In frame-type structure of high functionality and convincing design
● Engine	• Model: QSB5.9-C220-30 • Type: 6-cylinder in line, water-cooled diesel with 4 stroke cycles, turbo-charged, intercooled • Displacement: 5.9 L • Rated maximum power / RPM: 154 kW at 2200 r/min • Max. output torque / RPM: 820 N.m at 1300 -1700r/min • Off-road China III emission standard • Capacity of diesel oil tank: 220 L. • Standard configuration: Ignition plug extinguisher
● Control system	• Superstructure operating mode consists of the electro-hydraulic proportional operation and the computer integrated control. Superstructure hydraulic system adopts open and closed combined system. • 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.
●Monitoring system	• 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. • 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.

Equipment



Chassis

• **Engine**	• Model: YCK11460-50 • Type: 6-cylinder in line, water-cooled diesel with 4 stroke cycles, turbo-charged, intercooled • Displacement: 10980 L • Rated maximum power / RPM: 339 kW at 1900 r/min • Max. output torque / RPM: 2200 N.m at 1100 -1500r/min • Exhaust emission limit value: Europe V standard • Capacity of diesel oil tank: 500 L.
• **Transmission**	• F12JZ22A transmission system with automatic switching system manufactured by Shaanxi FAST Auto Drive Co., Ltd. • 12 gears
• **Axles**	• Axle load: 13 tons • All axles steer. • Drive type: 10 × 6 • Axles 2, 4 and 5 are steer and drive axles. Axles 1 and 3 are steer axles. • The drive axles are equipped with the transversal differentials and differential locks. The through drive axle (axle 4) is equipped with longitudinal differential and differential lock. • With disc brake and drum brake
• **Outrigger**	• H type two sectional outrigger, box-shaped section, made of high-tensile steel (δs=960MPa)
• **Tires**	• Tubeless tire • Tire size: 385/95R25 (standard configuration) / 445/95R25 (option) • Tire pressure: 1 MPa • Rim type: 25-10.00/1.5 / 25-11.00/1.7 • Tightening torque of tire bolt: 650 – 700 N.m
• **Steering system**	• All-wheel variable steering system with 6 steering programs • The steering system, which is mechanically and electro-hydraulically controlled, consists of a double-channel steering gear and the emergency steering system. • Axles 1 and 2 are mechanically steered by the steering wheel. Axles 3, 4 and 5 are steered by the electro-hydraulic proportional control system. • Steering of the booster cylinder is controlled by the PLC and proportional valve. Steering axles are equipped with angle sensors. • During steering, the angle sensors will detect corresponding signals and will send the signals to PLC. PLC will calculate the steering angles required by each axle according to the selected steering mode and the steering angle of axle 1. Signals for the calculated target steering angles for each steering axle will be transmitted to the control plate for the proportional valve via the output port of PLC. The control plate will open proportional valve element to drive steering booster cylinders. In this

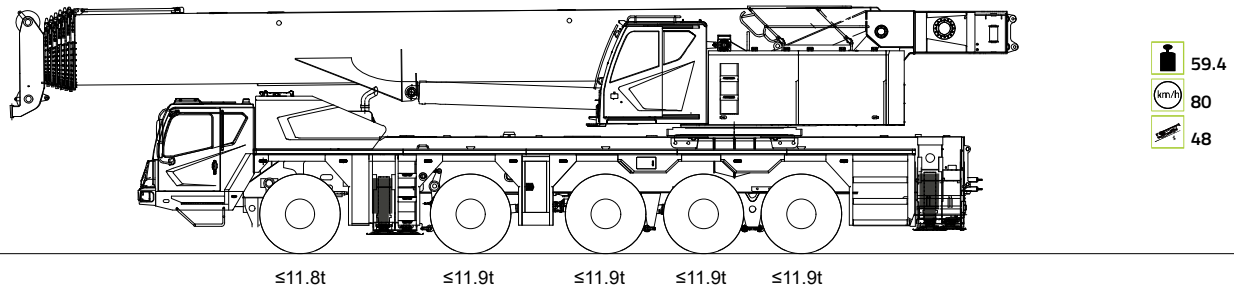
	way, axles are steered. At the same time, the angle sensor will detect the actual steering angles of steering axles and adjust the control signal of proportional valve until the feedback signals are equal to the command signals. Consequently, rear axles can be rapidly, correctly and reliably steered depending on the speed and steering angle of axle 1.
• **Suspension**	• All axles with hydro-pneumatic suspension and automatic leveling system • Load equalization between the axle pairs • 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. • 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.
• **Brake system**	• It consists of service brake, parking brake (emergency brake) and auxiliary brake. • Service brake: dual-circuit air brake system, acting on brakes of all of axles • Parking brake (Emergency brake): spring stored energy brake, acting on brakes of axles 2, 3, 4, 5 • Auxiliary brake: engine in-cylinder brake, eddy current retarder brake (option)
• **Electrical system**	• The chassis adopts two N200 batteries which are series connected (the rated voltage of each battery is 12 V). The electrical system is single-wired. The negative pole is earthed via the battery master switch to form a circuit with 24 V output voltage. • The batteries comply with the requirements stipulated in GB/T5008.1-2013 *Lead-acid Starter Batteries — Technical Requirements and Methods of Tests.* • The standard generator is an alternator (28 Volt and 70 Ah).
• **Driver's cab**	The low-mounted, full-width and all-metal welded spacious cab with flexible lining is of convincing design and outstanding functionality The control elements and displays are arranged according to ergonometric factors, thus for safe and convenient handling at permanent operation The cab is with the following features: • Height and inclination adjustable steering wheel, sliding windows, windshield wiper & washing device and large reflectors • Luxurious instrument console equipped with all kinds of instruments (multifunctional electronic instrument), control lights, control switches, cigarette lighter and MP3 player and so on • Adjustable cab heater / defroster and air conditioning • Rearview camera • The multifunctional integral electronic instrument in multiple interfaces with convenient interactive functions is independently developed by Zoomlion. It has a touch screen. It not only can display the common information about the crane during normal driving, but also can display the vehicle steering status. You can set and modify the steering mode and hydro-pneumatic suspension via switching over the screens. • 2 comfortable seats with armrests and seat belts. • The pneumatically suspended driver's seat can be adjusted automatically to suit any driver height and size.

Travel modes

① Single axle below 12t travel mode

These components such as the hook, the movable counterweight, the jib, the rooster sheave, the auxiliary winch & the wire rope, the outrigger pads and the spare tire are removed from the crane. (Tire size: 385/25 R95)

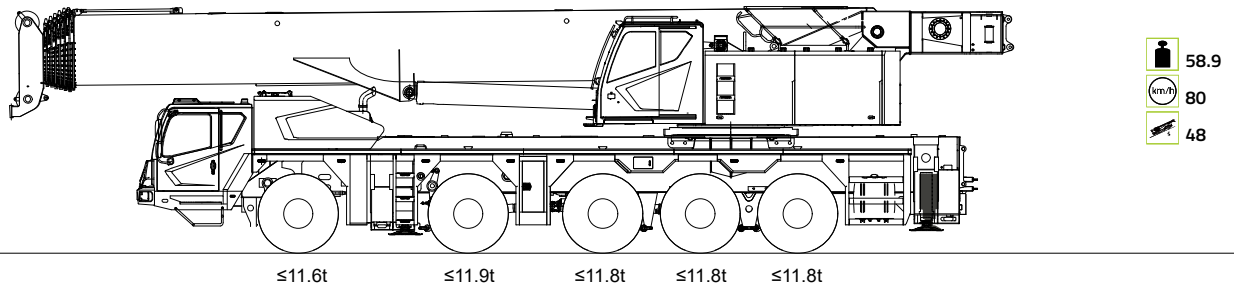
Under this travel mode, the vehicle speed is below 80 km/h and max. permissible gradeability is 48%.



② Single axle below 12t travel mode

These components such as the hook, the movable counterweight, the jib, the auxiliary winch & the wire rope, the right front outrigger (including the oil cylinder), the left rear sliding beam (including the oil cylinder), the outrigger pads and the spare tire are removed from the crane. (Tire size: 445/25 R95)

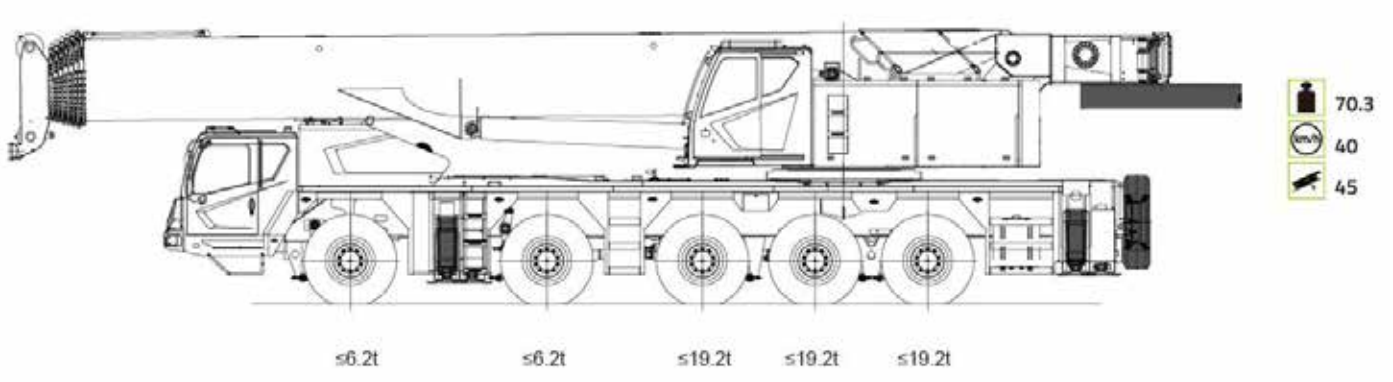
Under this travel mode, the vehicle speed is below 80 km/h and max. permissible gradeability is 48%.



③ Road travel mode (70t)

These components such as the hook, the rooster sheave, the jib, the auxiliary winch & the wire rope are removed from the crane. And 10t counterweight is with the vehicle.

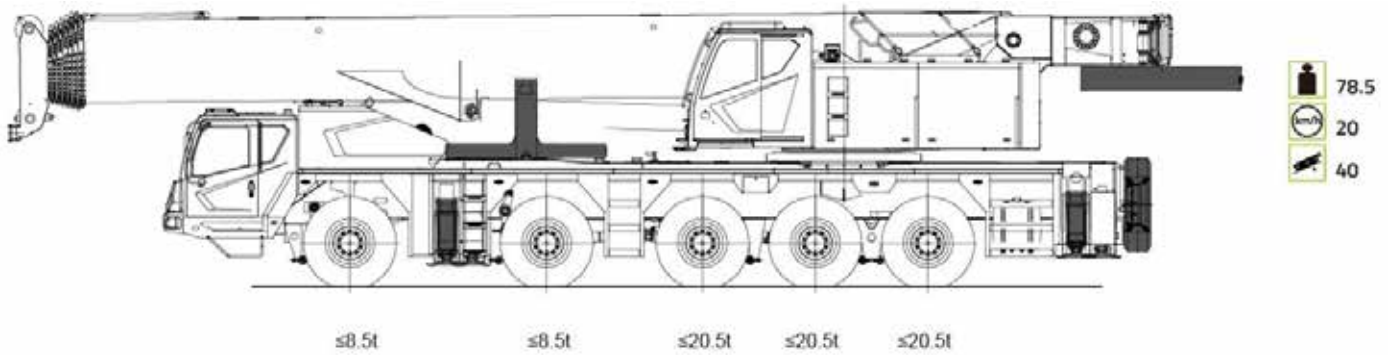
For medium distance transit, the vehicle speed is below 40 km/h and max. permissible gradeability is 45%.



④ Road travel mode (78t)

These components such as the hook, the rooster sheave, the jib, the auxiliary winch and the wire rope are removed from the crane. And 18t counterweight is with the vehicle.

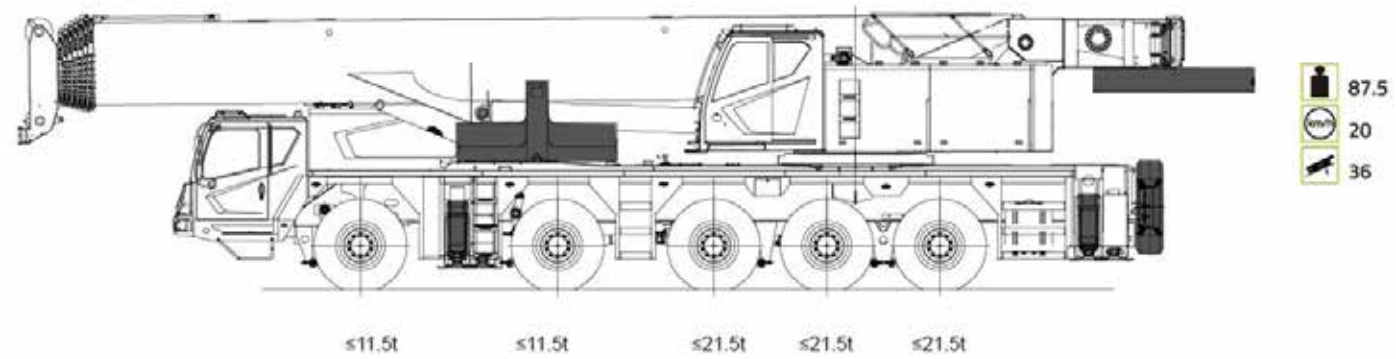
For short distance transit, the vehicle speed is below 20 km/h and max. permissible gradeability is 40%.



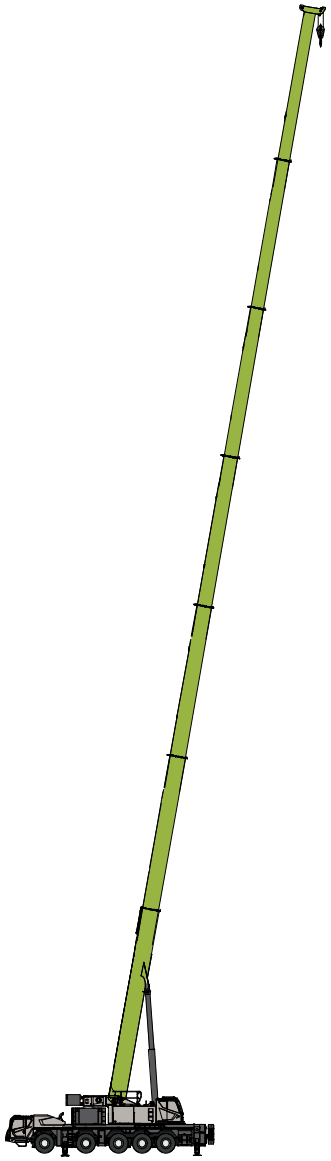
⑤ Road travel mode (87t)

These components such as the hook, the rooster sheave, the jib, the auxiliary winch and the wire rope are removed from the crane. And 27t counterweight is with the vehicle.

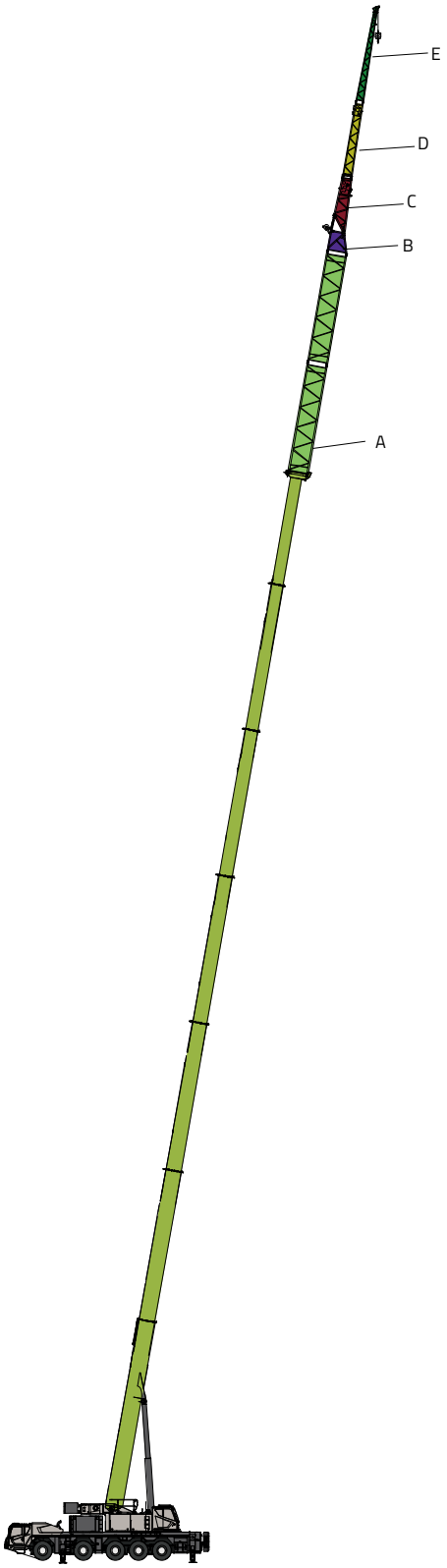
For short distance transit, the vehicle speed is below 20 km/h and max. permissible gradeability is 36%.



Boom / jib combinations

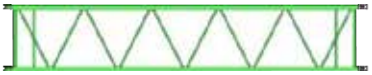


Main boom

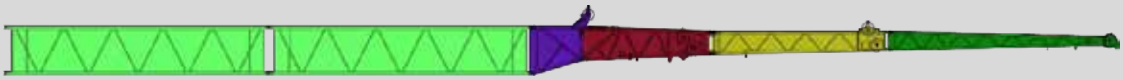


Main boom + Jib

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

Jib

10.4 m	
17.5 m	
25.5 m	
33.5 m	



8m extension



Adaptor I



Adaptor II

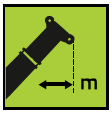


Jib section I

Jib section II

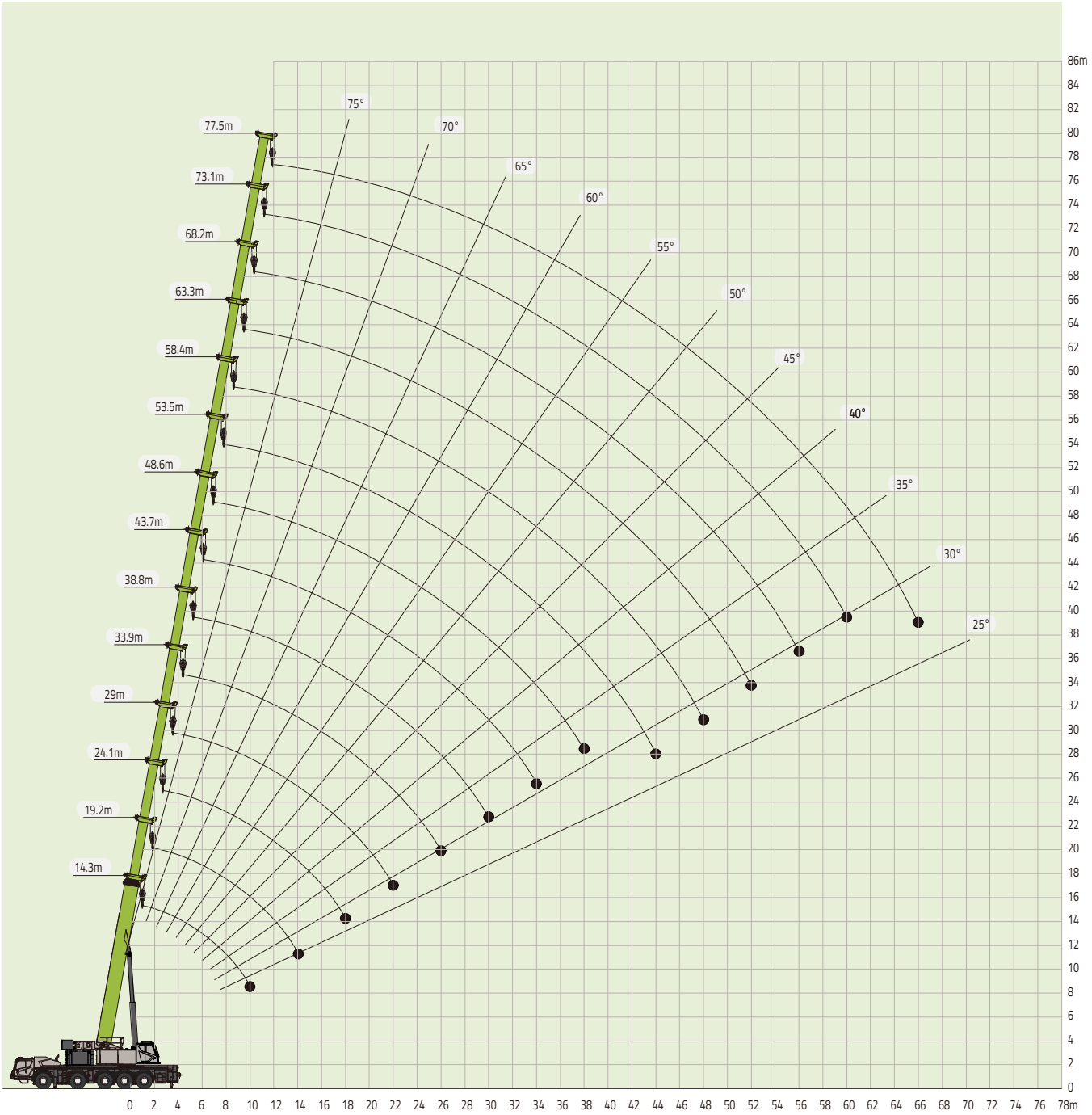
Lifting heights + Lifting capacities

The graphic description is as follows:

Graphical representation	Description
	Main Boom OM
	Jib OM
	Boom length
	Working radius
	Over full range
	Max. reeving

Graphical representation	Description
	Outriggers completely extended
	Outriggers intermediately extended
	Counterweight
	Slewing radius of counterweight
	Counterweight front position
	Counterweight rear position

Main boom OM: 14.3 m – 77.5 m



Note:

1. **The rated lifting capacity marked with the asterisk (*) is a nominal one;**
2. **As for the OM of which the lifting capacity is more than 100t, 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

Unit: t










14.3m- 77.5m 9.23×8.3m 60t

m	14.3★	19.2	19.2	19.2	19.2	19.2★	24.1	24.1	24.1	24.1	24.1	24.1 ★	m
2.5	200*												**2.5**
3.0	130	54	75	95	105	110							**3.0**
3.5	116	52	75	95	104	105	26	53	75	93	96	100	**3.5**
4.0	106	49	75	93	103	104	25.5	53	72	92	94	94	**4.0**
4.5	102	47	75	90	97	97	24.5	52	68	88	93	93	**4.5**
5.0	97	43	75	85	92	92	22	51	65	84	91	91	**5.0**
6.0	86	40	68	80	84	84	20.5	47.5	58	77	82	82	**6.0**
7.0	76	37	61	73	74.5	74.5	19	44	52	72	74	74	**7.0**
8.0	67.5	35	56	66	66.5	66.5	17.5	40	48	64	66	67	**8.0**
9.0	59	33	52	60	61	60	16	37.5	44	60	60	61	**9.0**
10.0	52	30	47	56	55.5	54.5	15	34.5	40	53	55	54	**10.0**
12.0		27	41	46.5	46	45	13	30	35.5	48	47	46	**12.0**
14.0		25	36.5	38.5	38	37	11.5	27	31	43	39	38	**14.0**
16.0							10.3	24	27.5	34.5	33	32	**16.0**
18.0							9.5	21.8	25.5	30.2	29.5	27.8	**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**
N_{max}	12												**N_{max}**
Hook	110t						90t						**Hook**
Telescoping mode Ⅰ	1	1	1	1	1	1	1	1	1	1	1	2	Ⅰ **Telescoping mode**
Ⅱ	1	1	1	1	1	2	1	1	1	1	2	2	Ⅱ
Ⅲ	1	1	1	1	2	1	1	1	1	2	2	1	Ⅲ
Ⅳ	1	1	1	2	1	1	1	1	2	2	1	1	Ⅳ
Ⅴ	1	1	2	1	1	1	1	2	2	1	1	1	Ⅴ
Ⅵ	1	2	1	1	1	1	3	2	1	1	1	1	Ⅵ

Table 8-1 main boom

Unit: t



14.3m- 77.5m 9.23×8.3m 60t

m	29	29	29	29	29	29 ★	33.9	33.9	33.9	33.9	33.9	33.9 ★	m
2.5													**2.5**
3.0													**3.0**
3.5													**3.5**
4.0													**4.0**
4.5	26	39	56.5	75	85	90							**4.5**
5.0	25	36	54	70	82	87							**5.0**
6.0	23	33	50	65	78	80	24.5	24	24.5	54	70	75	**6.0**
7.0	21	30	45	60	70	72	22.5	22	22.5	50	66	70.5	**7.0**
8.0	20	27.5	41	54	64	64	20.5	20	20.5	46	60	64.5	**8.0**
9.0	18.5	25.5	38	50	58	58	19	18	19.5	42.5	55.5	58.5	**9.0**
10.0	17	23.5	35	47	53	53	18	17	17.5	39.5	51.5	53	**10.0**
12.0	15	20.5	30	41	44	44	16	15	15.5	34.2	44	44	**12.0**
14.0	13.5	18.5	27	37	38	37	14.2	13	13.5	30.4	38	37	**14.0**
16.0	12	16.6	24	33	36	34	13.2	11.5	12	28	35.5	35	**16.0**
18.0	11	15	21.5	30	31.3	28	12.1	10.2	11	25	31	29.3	**18.0**
20.0	10	13.8	19.5	27	26.5	23.5	11.3	9.2	10	23	26.5	24.7	**20.0**
22.0	9.5	12.8	18.5	24.1	22.8	20.3	10.5	8.4	9	21	23	21	**22.0**
24.0							10	7.8	8.2	19.5	20	18	**24.0**
26.0							9	7	7.5	18.3	17.5	15.6	**26.0**
28.0							8.5	6.5	7	16.5	15.3	13.6	**28.0**
30.0							8	6	6.5	14.8	13.5	12	**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**
N_{max}	11						9						**N_{max}**
Hook	90t												**Hook**
Telescoping mode Ⅰ	1	1	1	1	1	2	1	1	1	1	1	2	Ⅰ
Ⅱ	1	1	1	1	2	2	1	1	1	1	2	2	Ⅱ
Ⅲ	1	1	1	2	2	2	1	1	1	2	2	2	Ⅲ
Ⅳ	1	1	2	2	2	1	1	2	3	2	2	2	Ⅳ
Ⅴ	2	3	2	2	1	1	3	3	2	2	2	1	Ⅴ
Ⅵ	3	2	2	1	1	1	3	2	2	2	1	1	Ⅵ **Telescoping mode**

Table 8-1 main boom

Unit: t



14.3m- 77.5m 9.23×8.3m 60t

m	38.8	38.8	38.8	38.8	38.8	38.8 ★	43.7	43.7	43.7	43.7	43.7	43.7 ★	m
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	20	24	30	37	54	65							**7.0**
8.0	18.5	22	27.5	34.5	51	63							**8.0**
9.0	17.2	20.6	26	32	47	61	15	22	27	32	34	51	**9.0**
10.0	16	19	24	29.5	44	56	14	20.5	24.5	30	31	48	**10.0**
12.0	13.8	17	21	26	40	48	12	18.5	22.5	26	27	42	**12.0**
14.0	12	15	18.2	23	35	45	11	16.5	20	23	24	38.5	**14.0**
16.0	11	13.2	16.5	20.5	31	36.5	9.6	15	18	20	21	35	**16.0**
18.0	9.8	12	14.5	18.3	29	30.5	8.8	13.5	16.5	18	19	31	**18.0**
20.0	8.9	11	13.5	16.5	26	25.8	8	12.2	15	16.5	17.5	26.5	**20.0**
22.0	8	10	12	15	23.8	22	7	11.1	13.5	15	16	23	**22.0**
24.0	7.3	9.2	11	14	20.8	19	6.5	10.2	12.5	13.6	14.5	20	**24.0**
26.0	6.7	8.5	10	13	18.4	16.5	6	9.3	11.5	12.6	13.2	17.6	**26.0**
28.0	6.3	7.8	9.5	12	16.2	14.5	5.5	8.5	10.6	11.8	12	15.6	**28.0**
30.0	5.8	7.3	8.8	11	14.5	12.8	5	8	10	10.8	11.2	14	**30.0**
32.0	5.3	6.7	8	10.3	13	11.3	4.7	7.3	9.2	10	10.3	12.5	**32.0**
34.0							4.3	7	8.5	9.5	9.7	11	**34.0**
36.0							4	6.5	8	8.8	9	10	**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**
N_{max}	8						6						**N_{max}**
Hook	90t						55t						**Hook**
Telescoping mode Ⅰ	1	1	1	1	1	2	1	1	1	1	1	2	Ⅰ **Telescoping mode**
Ⅱ	1	1	1	1	2	2	1	1	1	2	3	2	Ⅱ
Ⅲ	1	1	2	3	2	2	1	2	3	3	2	2	Ⅲ
Ⅳ	2	3	3	2	2	2	3	3	3	2	2	2	Ⅳ
Ⅴ	3	3	2	2	2	2	3	3	2	2	2	2	Ⅴ
Ⅵ	3	2	2	2	2	1	3	2	2	2	2	2	Ⅵ

Table 8-1 main boom

Unit: t



14.3m- 77.5m 9.23×8.3m 59t

m	48.6	48.6	48.6	48.6	48.6	48.6★	53.5	53.5	53.5	53.5	53.5★	m
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	17.5	21.5	27	28	32	39						10.0
12.0	16	20	24	25	28	34.5	17	22.5	23.5	27.5	30.5	12.0
14.0	14.5	18	21	22.2	25	30.5	15	20.4	20.7	24.5	27	14.0
16.0	13	16	19	19.5	22.8	27.5	13.6	18.7	18.5	22	24	16.0
18.0	12	15	17	17.5	20.5	24.5	12.6	17.1	16.5	19.5	22.5	18.0
20.0	11	13.5	15.2	15.8	18.6	22.5	11.6	15.8	15	17.7	20	20.0
22.0	10	12.5	14.2	14.5	17	20.5	10.6	14.4	13.5	16.2	18.5	22.0
24.0	9.2	11.5	12.8	13	15.5	18.8	9.7	13.2	12.3	14.7	17	24.0
26.0	8.5	10.5	11.8	12	14	17	9	12.1	11.3	13.5	15.5	26.0
28.0	8	9.6	10.9	11	13	15	8.4	11.2	10.3	12.4	14.5	28.0
30.0	7.5	9.2	9.8	10	12	13	7.8	10.3	9.4	11.3	13	30.0
32.0	7	8.5	9.2	9.2	11	11.8	7.3	9.6	8.6	10.4	11.8	32.0
34.0	6.5	8	8.3	8.5	10.4	10.5	6.8	8.9	7.9	9.6	10.5	34.0
36.0	6.2	7.5	8	8	9.5	9.5	6.4	8.3	7.3	8.9	9.3	36.0
38.0	5.8	7	7.4	7.4	8.6	8.4	6	7.7	6.8	8.2	8.4	38.0
40.0	5.3	6.7	7	7	7.8	7.5	5.6	7.2	6.3	7.6	7.5	40.0
42.0							5.3	6.8	5.8	7.1	6.7	42.0
44.0							4.9	6.4	5.2	6.3	5.9	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
N_{max}	5						4					N_{max}
Hook	55t											Hook
Telescoping mode Ⅰ	1	1	1	1	2	3	1	1	1	2	3	Ⅰ
Ⅱ	1	1	2	3	3	2	1	2	3	3	3	Ⅱ
Ⅲ	2	3	3	3	2	2	3	3	3	3	2	Ⅲ
Ⅳ	3	3	3	2	2	2	3	3	3	2	2	Ⅳ
Ⅴ	3	3	2	2	2	2	3	3	2	2	2	Ⅴ
Ⅵ	3	2	2	2	2	2	3	2	2	2	2	Ⅵ Telescoping mode

Table 8-1 main boom

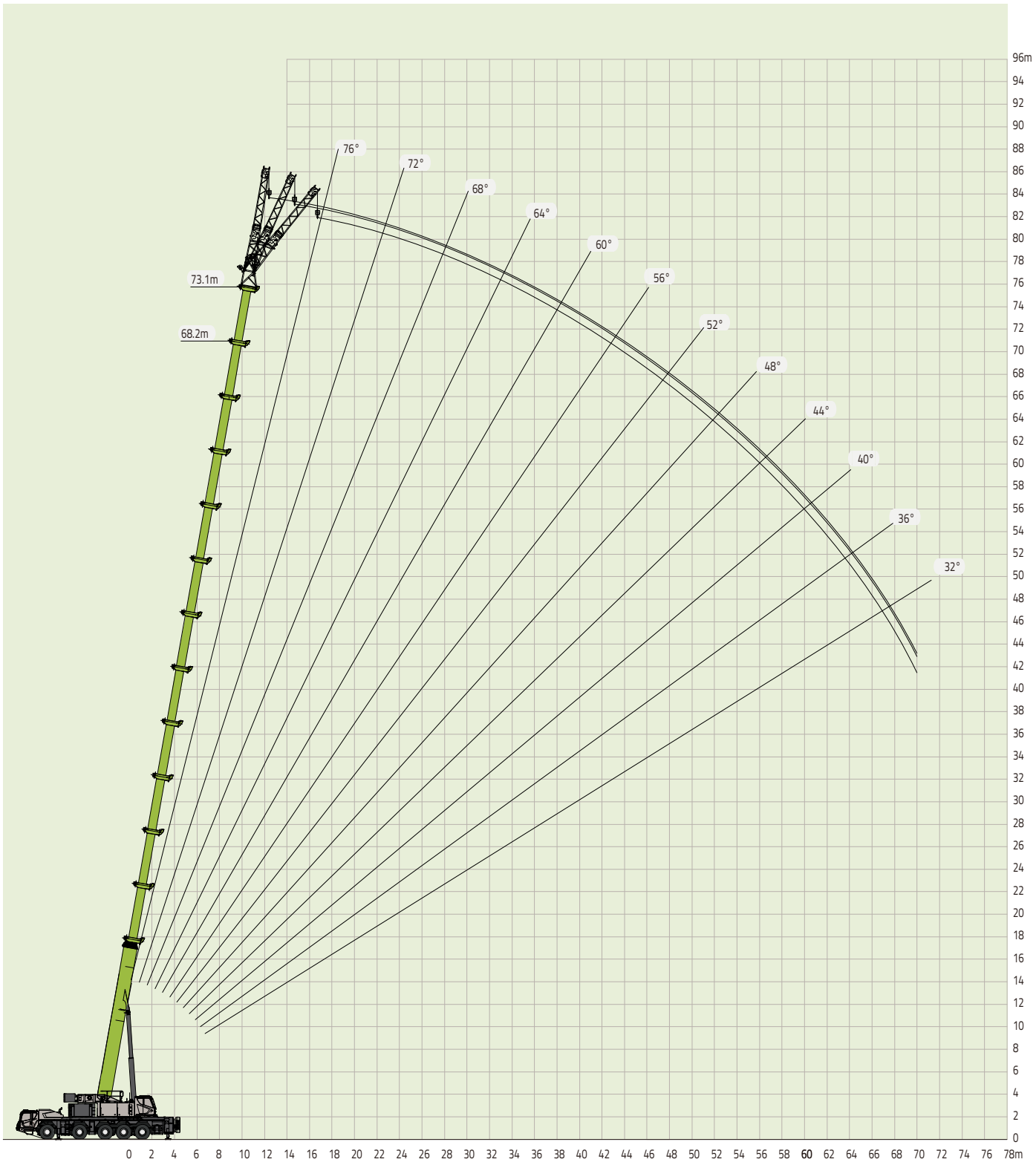
Unit: t



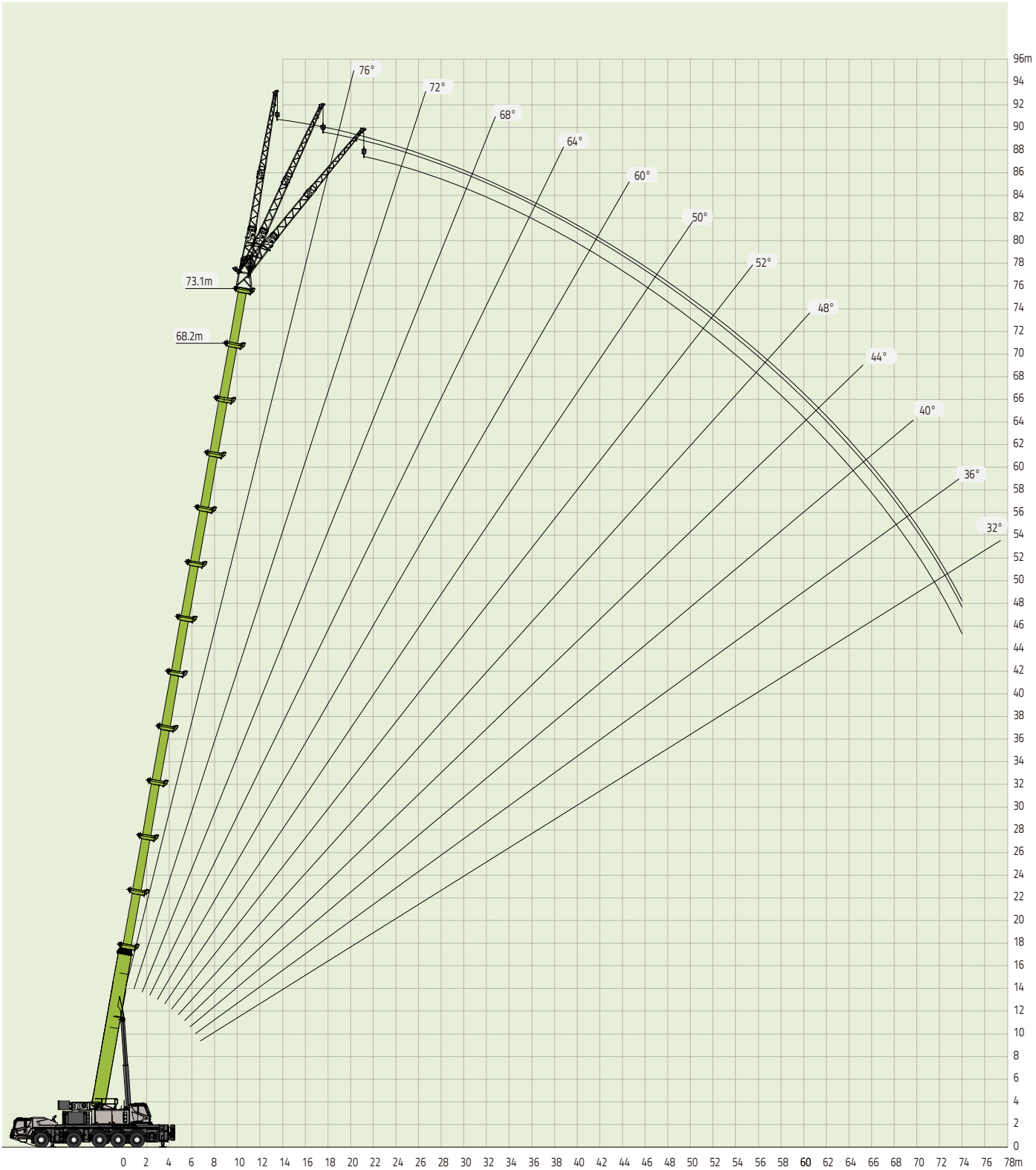
14.3m- 77.5m 9.23×8.3m 60t

m	58.4	58.4	58.4	58.4★	63.3	63.3	63.3★	68.2	68.2★	73.1★	77.5★	m
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	14.4	16.3	18.8	21.2								12.0
14.0	16	19	22.5	23.5	17	20	22					14.0
16.0	14.8	17.5	20.2	21.2	16	19	21.6	16	17.5			16.0
18.0	13.8	15.6	18.2	19.3	14.7	17	19.9	15	17.3	14		18.0
20.0	12.6	14	16.5	19.5	13.7	15.5	18.2	14	17	13.5	11	20.0
22.0	11.7	12.8	15	16.1	12.5	14.2	16.7	13	15.7	13.2	10.6	22.0
24.0	10.7	11.6	13.8	16.3	11.4	13	15.3	12.5	14.5	12.8	10.2	24.0
26.0	10.1	10.7	12.5	15.1	10.4	12	14.1	12	13.2	12.2	10	26.0
28.0	9.4	9.7	11.6	13.9	9.5	11	13	11.2	12.3	11.4	9.6	28.0
30.0	8.9	8.9	10.6	12.9	9	10.1	12	10.3	11.4	10.6	9.4	30.0
32.0	8.3	8.1	9.7	11.8	8.2	9.3	11	9.5	10.6	9.7	9	32.0
34.0	7.7	7.4	9	10.6	7.9	8.6	10	8.8	9.7	9	8.6	34.0
36.0	7.1	6.8	8	9.5	7.4	8	9.2	8.2	8.9	8.3	8	36.0
38.0	6.6	6.3	7.8	8.5	6.8	7.6	8.3	7.7	8.2	7.8	7.3	38.0
40.0	6.2	5.8	7.3	7.5	6.3	7.3	7.8	7	7.6	7.2	6.8	40.0
42.0	5.7	5.3	6.7	6.7	6	6.7	7	6.7	6.9	6.8	6.5	42.0
44.0	5.3	4.9	6.1	6.1	5.5	6.2	6.4	6	6.3	6.2	6.2	44.0
46.0	4.9	4.5	5.6	5.4	5.2	5.6	5.7	5.8	6.1	6	5.8	46.0
48.0	4.6	4.2	5.2	4.9	4.8	5.3	5.2	5.4	5.6	5.5	5.3	48.0
50.0	4.2	3.9	4.9	4.3	4.4	5	4.6	5	5	5.1	4.9	50.0
52.0					4.2	4.6	4.1	4.5	4.5	4.8	4.6	52.0
54.0					3.9	4.3	3.7	4.2	4.1	4.4	4.3	54.0
56.0								4	3.7	4.1	4	56.0
58.0								3.8	3.3	3.6	3.5	58.0
60.0								3.6	2.9	3.3	3.2	60.0
62.0										2.9	2.8	62.0
64.0										2.6	2.5	64.0
66.0											2.3	66.0
68.0											2	68.0
70.0											1.6	70.0
72.0												72.0
74.0												74.0
N_{max}	3				3			2		2	2	N_{max}
Hook	55t				25t							Hook
Telescoping mode I	1	1	2	3	1	2	3	2	3	3	4	I
II	2	3	3	3	3	3	3	3	3	3	4	II
III	3	3	3	3	3	3	3	3	3	3	4	III
IV	3	3	3	2	3	3	3	3	3	3	4	IV
V	3	3	2	2	3	3	2	3	3	3	4	V
VI	3	2	2	2	3	2	2	3	2	3	4	VI

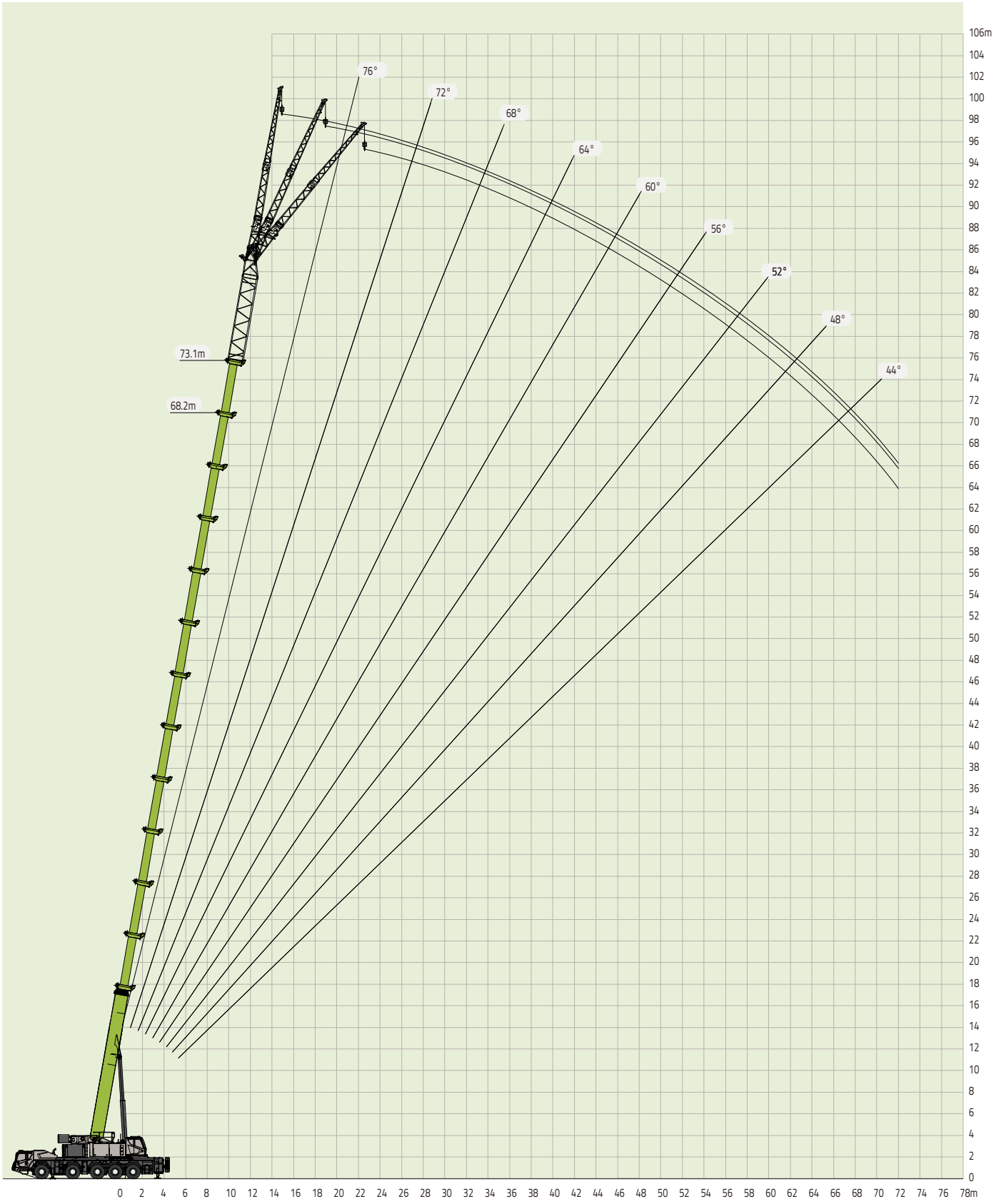
68.2 m – 73.1m main boom + 10.4 m jib OM



68.2 m – 73.1m main boom + 17.5 m jib OM



68.2 m – 73.1m main boom + 25.5 m jib OM



68.2 m – 73.1m main boom + 33.5 m jib OM

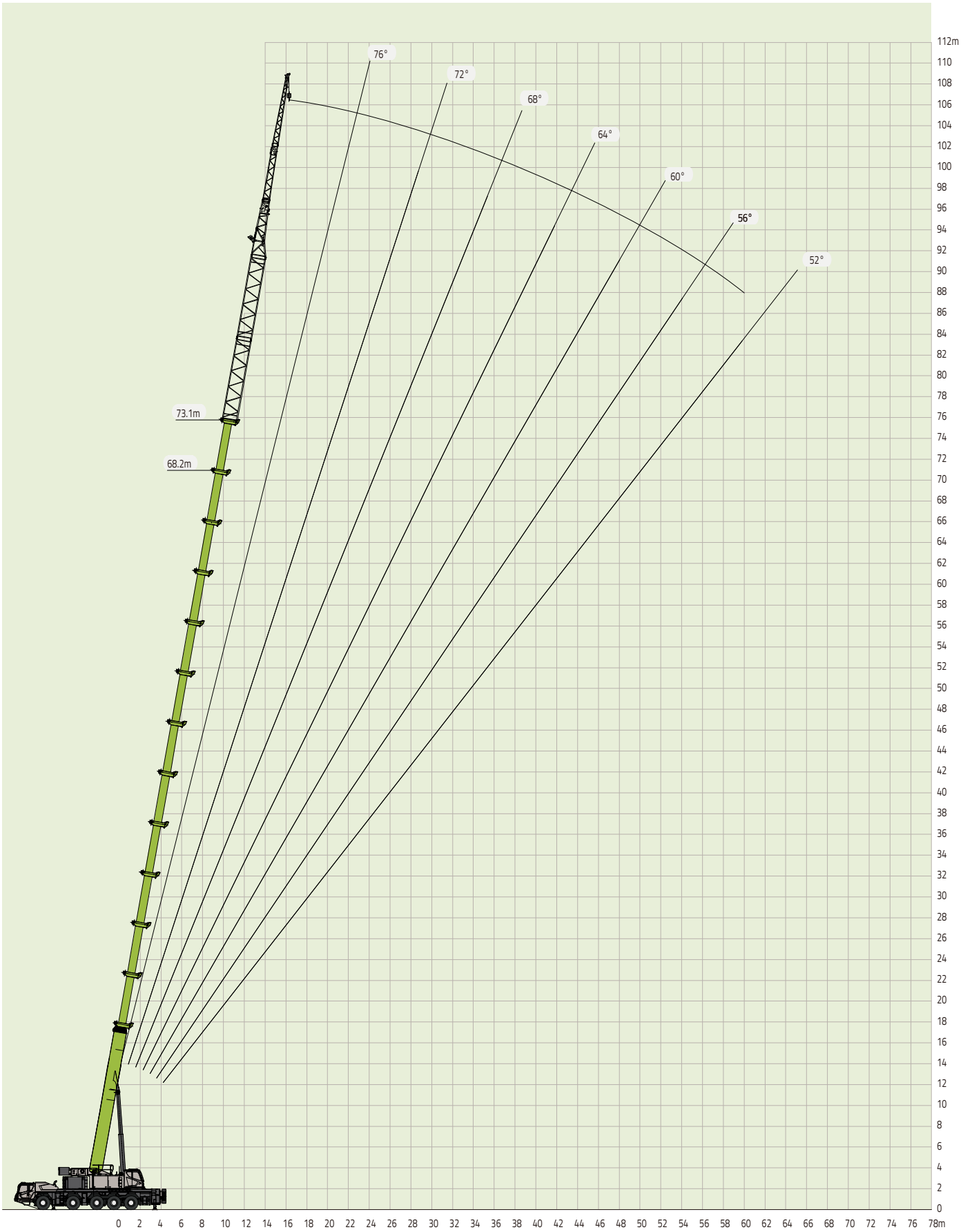


Table 9-1 Main boom + Jib

Unit: t











68.2 – 73.1m 10.4-33.5m 9.23×8.3m 60t

m	68.2			73.1			68.2			73.1			68.2			73.1			68.2	73.1	m
	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°	
16.0																					16.0
18.0																					18.0
20.0	7.5			6.5																	20.0
22.0	7.3	6.5		6.4	5.5		3.9														22.0
24.0	7.1	6.4	5.6	6.3	5.4	5	3.9			3.8			2.7								24.0
26.0	7	6.3	5.6	6.3	5.3	4.9	3.9	3.1		3.8	3		2.7	2.4		2.6					26.0
28.0	6.9	6.2	5.6	6.2	5.2	4.8	3.8	3.1	2.7	3.8	3	2.6	2.7	2.4	2	2.6	2.3				28.0
30.0	6.7	6.1	5.5	6.1	5.1	4.7	3.8	3.1	2.7	3.7	3	2.6	2.7	2.4	2	2.6	2.3	1.9	1.8	1.7	30.0
32.0	6.5	6	5.4	6	5	4.6	3.7	3.1	2.7	3.6	3	2.6	2.6	2.3	2	2.5	2.3	1.9	1.8	1.7	32.0
34.0	6.4	5.9	5.3	5.9	4.9	4.5	3.6	3.1	2.6	3.5	3	2.5	2.5	2.3	2	2.4	2.2	1.9	1.8	1.7	34.0
36.0	6.3	5.8	5.2	5.7	4.8	4.4	3.5	3	2.6	3.4	3	2.5	2.4	2.3	2	2.3	2.2	1.9	1.7	1.7	36.0
38.0	6.2	5.7	5.1	5.5	4.7	4.3	3.4	3	2.5	3.3	3	2.5	2.4	2.2	2	2.3	2.2	1.9	1.7	1.6	38.0
40.0	6	5.6	5	5.3	4.6	4.2	3.3	2.9	2.5	3.2	2.8	2.4	2.4	2.2	2	2.3	2.1	1.9	1.7	1.6	40.0
42.0	5.8	5.5	4.9	5.1	4.5	4.1	3.2	2.9	2.5	3.1	2.8	2.4	2.3	2.2	1.9	2.3	2.1	1.9	1.7	1.6	42.0
44.0	5.5	5.4	4.8	4.9	4.4	4	3	2.8	2.5	2.9	2.7	2.4	2.3	2.2	1.9	2.2	2.1	1.8	1.6	1.6	44.0
46.0	5.2	5.1	4.7	4.7	4.3	3.9	2.8	2.7	2.4	2.7	2.6	2.3	2.3	2.1	1.9	2.2	2.1	1.8	1.6	1.6	46.0
48.0	4.8	4.7	4.6	4.6	4.2	3.8	2.7	2.6	2.4	2.6	2.5	2.3	2.2	2.1	1.9	2.2	2	1.8	1.6	1.5	48.0
50.0	4.5	4.5	4.4	4.3	4.1	3.7	2.6	2.5	2.3	2.5	2.4	2.2	2.2	2	1.8	2.1	2	1.8	1.6	1.5	50.0
52.0	4.2	4.2	4.1	4	4	3.6	2.5	2.4	2.2	2.4	2.3	2.1	2.1	2	1.8	2.1	1.9	1.7	1.5	1.5	52.0
54.0	4	4	4	3.8	3.8	3.5	2.3	2.3	2.1	2.2	2.2	2	2	1.9	1.8	2	1.8	1.7	1.5	1.5	54.0
56.0	3.6	3.6	3.6	3.5	3.5	3.4	2.2	2.2	2	2.1	2.1	1.9	1.9	1.9	1.7	1.9	1.7	1.7	1.5	1.4	56.0
58.0	3.3	3.3	3.3	3.3	3.3	3.3	2.1	2.1	1.9	2	2	1.8	1.8	1.8	1.6	1.8	1.7	1.6	1.4	1.4	58.0
60.0	3	3	3	3	3	3	2	2	1.9	1.9	1.9	1.8	1.7	1.7	1.5	1.7	1.6	1.6	1.4	1.4	60.0
62.0	2.5	2.5	2.5	2.5	2.5	2.5	1.9	1.9	1.8	1.8	1.8	1.7	1.6	1.6	1.4	1.6	1.6	1.5	1.3	1.3	62.0
64.0	2	2	2	2.2	2.2	2.2	1.8	1.8	1.7	1.7	1.7	1.6	1.5	1.5	1.3	1.5	1.5	1.5	1.2	1.2	64.0
66.0	1.8	1.8	1.8	2	2	2	1.7	1.7	1.6	1.6	1.6	1.5	1.4	1.4	1.3	1.4	1.4	1.4	1.1	1.1	66.0
68.0	1.5	1.5	1.5	1.8	1.8	1.8	1.6	1.6	1.6	1.5	1.5	1.4	1.3	1.3	1.2	1.3	1.3	1.3			68.0
70.0	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.4	1.2	1.2	1.2	1.2	1.2	1.2			70.0
72.0				1.3	1.3	1.3	1.4	1.4	1.4	1.3	1.3	1.3	1.1	1.1	1.1	1.1	1.1	1.1			72.0
74.0							1.3	1.3	1.3	1.2	1.2	1.2									74.0
76.0																					76.0
78.0																					78.0
N_{max}	1																				N_{max}
Hook	9t																				Hook

Note:

① Telescoping combination of 68.2 m boom length: 333332

② Telescoping combination of 73.1 m boom length: 333333

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