XCA250G7-1E All Terrain Crane

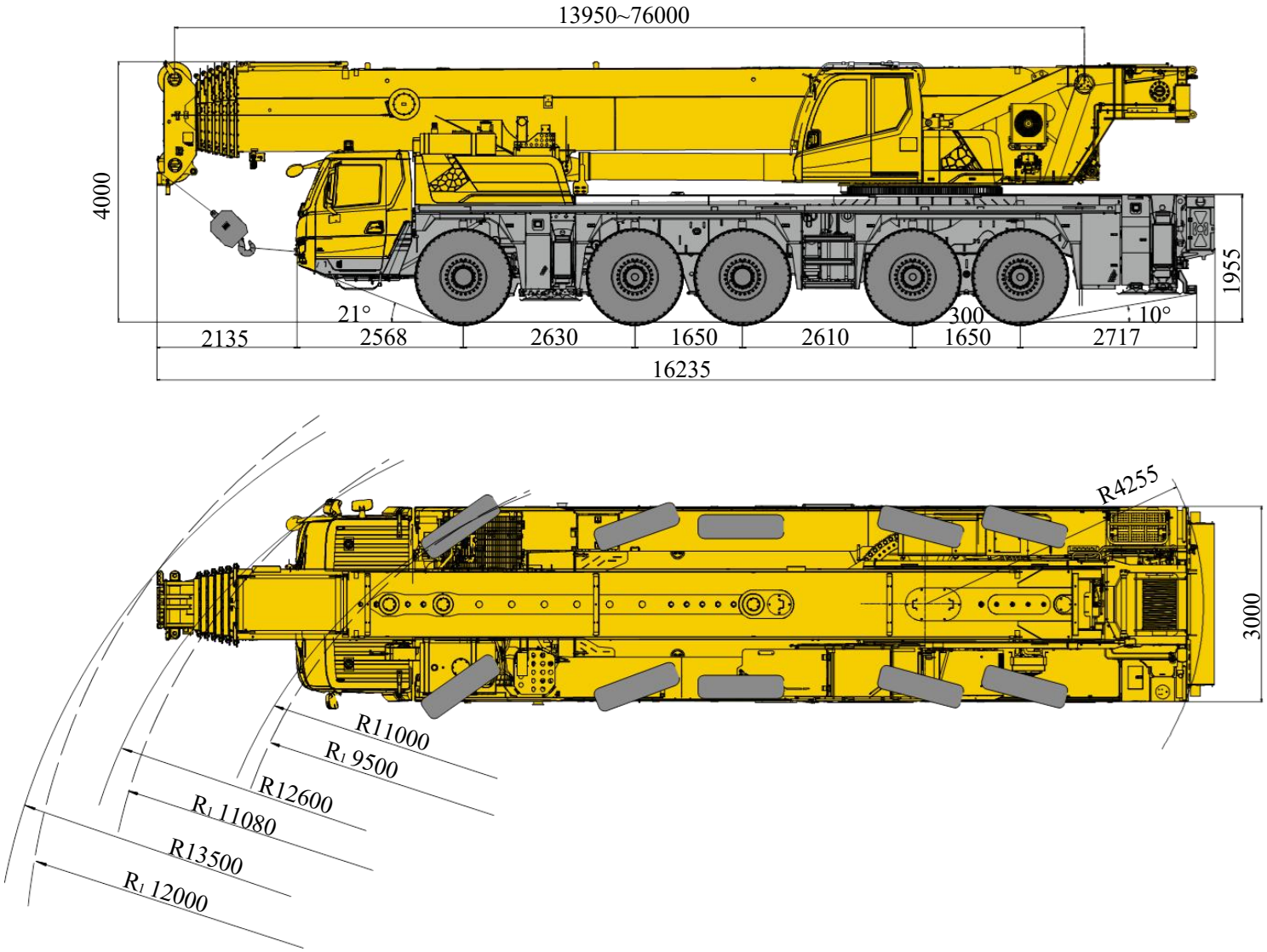
Technical specifications

XCMG

5th edition, March 2025

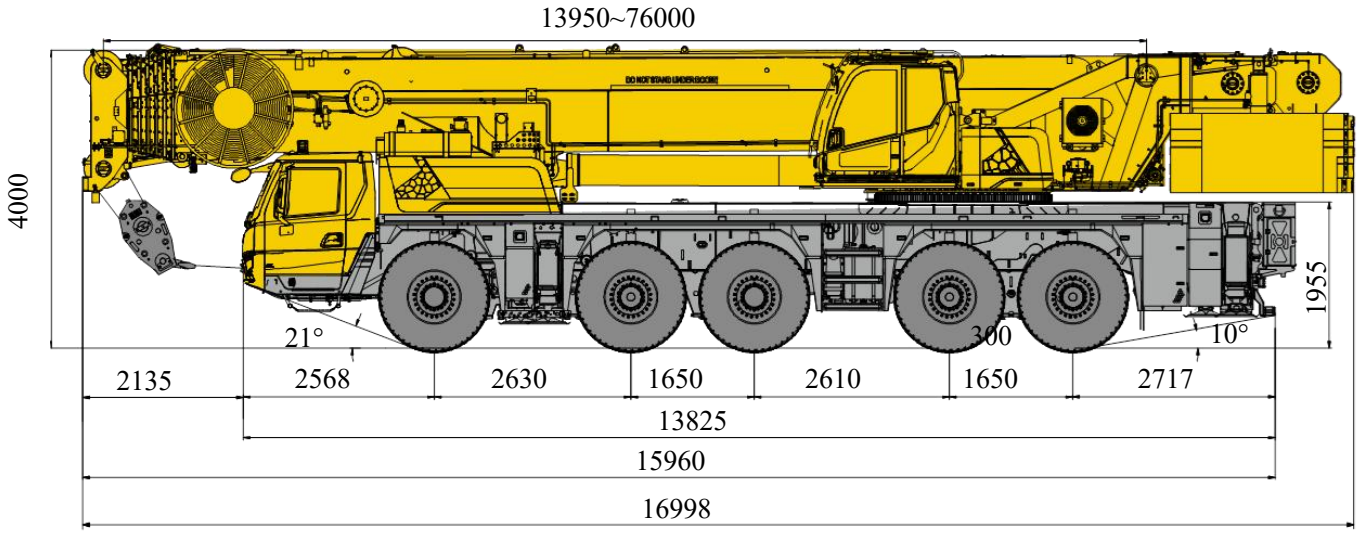
Contents

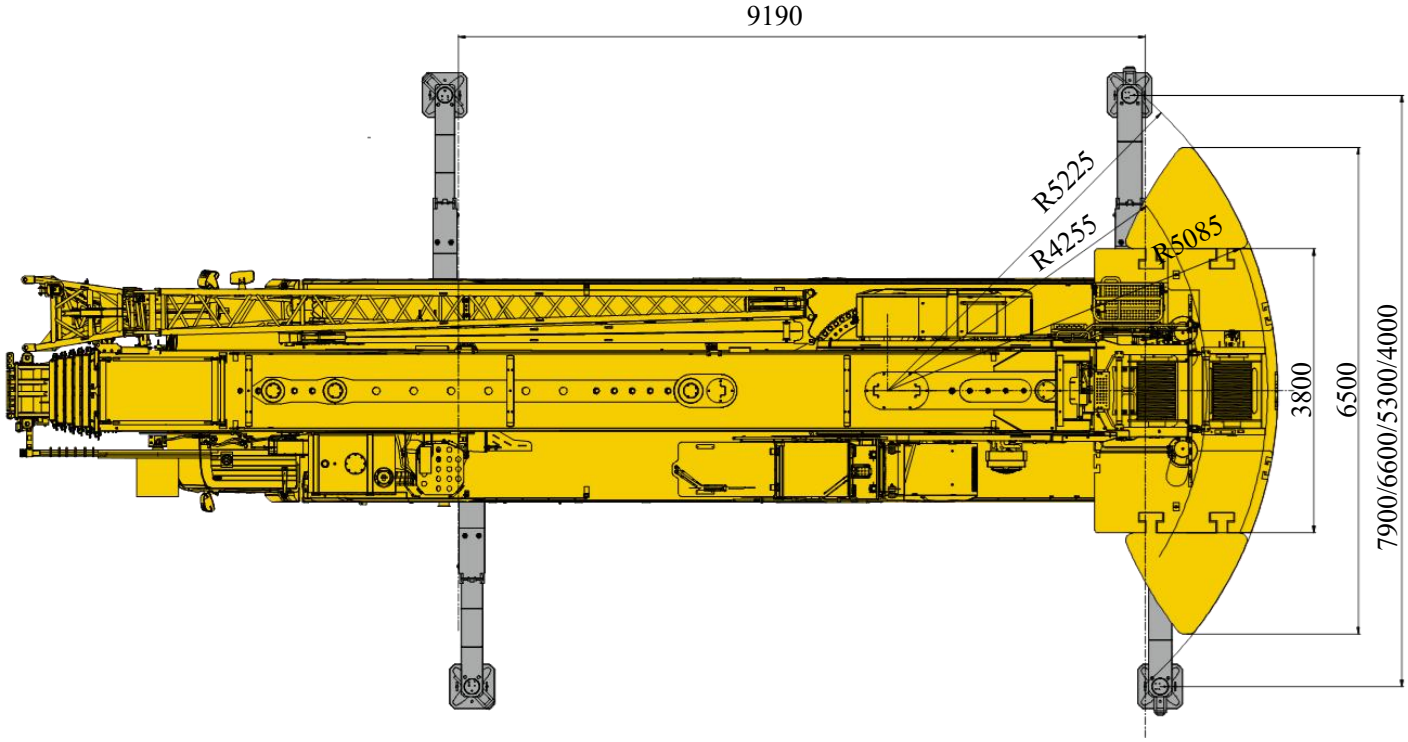
Dimensions



R: turning radius in normal highway driving mode; R1: turning radius in small turning driving mode.

Dimensions


13950~76000
4000
1955
21°
300
10°
2135
2568
2630
1650
2610
1650
2717
13825
15960
16998


9190
R5225
R4255
R5085
3800
6500
7900/6600/5300/4000

Technical specifications

Chassis

Frame	Designed and manufactured by XCMG. Fully covered aluminum alloy walking surface; high strength steel with anti-torsion box structure.
Outrigger	Four outriggers arranged in H-shape are hydraulically controlled. Double-stage outriggers are adopted. The chassis is equipped with a wireless remote control for outriggers, on which there is a level gauge and speed regulation button. Each outrigger is equipped with a check valve and outrigger jack has a double-way hydraulic lock. Outrigger float dimension: 600 mm × 600 mm
Engine	OM471LA.E5-1, in-line, 6-cylinder, water cooled, electric control diesel engine, made by Daimler, with maximum net power of 390 kW/1600 rpm and maximum torque of 2600 Nm/1300 rpm, compliant with off-road Euro V emission standard; fuel tank capacity: 485 L; AdBlue/DEF tank capacity: 40 L. Engine displacement: 12.809 L
Hydraulic system	The pump set, connected to the PTO port of the engine, controls the outriggers, steering system, suspension and independent hydraulic cooling system.
Transmission	ZF Germany automatic transmission with retarder brake; 12 forward gears and 2 reverse gears available.
Transfer case	Mechanical transfer case, with high/low speeds, is equipped with emergency steering pump.
Safety devices	Backup camera, 360°panoramic images, parking sensors, ABS, outrigger length measurement, outrigger pressure detection and axle load detection, etc.
Axle	High-strength axles with disc brake, axles 2, 4 and 5 for driving. Driving/steering type: 10×6×10
Suspension	Hydro-pneumatic suspension system has good shock-absorbing effect. Various functions such as automatic leveling, moving up and down of suspension, and switching over of locked and unlocked suspension are available. The stroke of suspension cylinder: -100 mm～+150 mm.
Tire	10 tires and 1 spare tire, each axle is equipped with single tire, with large bearing capacity. Tire specifications: 445/95R25.
Braking system	Service brake: dual-circuit air pressure brake acting on all wheels. Parking brake: air-release spring brake; acting on wheels of axles 2-5. Auxiliary brake: engine in-cylinder brake, transmission retarder brake; safe and reliable, with longer service life of brake lining.
Steering	All axles steering, advanced technology of electro-hydraulic proportional steering control is suitable for various demands of working conditions and several steering modes can be realized.
Driver's cab	New full dimension steel structure cab, equipped with electric window lifters, electrically heated rearview mirrors, remote unlocking function, pneumatic steering column adjustment system, multi-function steering wheel, multi-functional air-suspension seats for driver and co-driver, LED headlight, new combined central control panel, 12.3-inch LCD screen display, 12-inch central control screen, fire extinguisher and HVAC.
Electrical system	DC 24 V, with 2 sets of 12 V batteries in series.

Technical specifications

Superstructure

Structure	Designed and manufactured by XCMG, made of high strength steel.
Hydraulic system	The chassis engine drives the variable displacement piston pump via transmission to carry out lifting, luffing, telescoping and slewing operations. The load-sensitive electro-hydraulic directional valve which is highly compatible with the variable displacement piston pump ensures smooth start-stop performance and delivers outstanding combined movement characteristics. The electrically-driven air-cooled hydraulic oil cooler effectively reduces system oil temperature; hydraulic oil tank effective capacity: 750 L.
Control mechanism	The pilot electric proportional control, stepless speed regulation, all main movements of the crane is controlled by two vibration levers at left and right sides and virtual keys on the display screen.
Main winch system	Hydraulic control is used for speed regulation. The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake, a balanced valve and a grooved drum equipped. The main and auxiliary winches can be operated separately. Wire rope head is directly installed in pouch socket.
Slewing system	A single-row, four-point contact-ball external toothed slewing bearing with dual slewing mechanism is driven by hydraulic motor, with built-in planetary gear reducer and constant-closed brake equipped, and can continuously slew 360°. Power control or free slewing function, proportional braking function as well as stepless speed regulation are available.
Operator's cab	Steel enclosed operator's cab can be tilted up or down by 20°. Spacious interiors, expansive visibility, and abundant storage space. All-round view safety glass with an openable front window. Push-pull sliding door, protective grilles, pull-out side step. Dual-motor wipers for front and roof windows, with 2.5L water tank. Stylish interior design; 2 kg fire extinguisher; Sun screens for front, rear and side windows; Double-layer sun screen for the roof window. Mechanical shock absorber and adjustable seat with leather + breathable mesh is adjustable. Double LED interior lights, electric fan. Equipped with HMI control panel, display, armrests, and suspended electronic foot throttle. Heating & air conditioning are available.
Safety devices	Hydraulic counterbalance valve, hydraulic relief valve, double-way hydraulic lock, load moment indicator (LMI), angle sensor, lowering limiter to prevent rope over-releasing, anti-two block on the boom head to prevent rope over-winding, anemometer to detect the wind speed, winch monitoring camera, slewing buzzer.
Electrical system	DC 24 V, with 2 sets of 12 V batteries in series.
Load moment indicator (LMI)	When the actual load moment is approaching the overloading value, audible and visual warning will be sent out, and the dangerous operation will be automatically cut off before overloading occurs. Overload memory function (black box) and fault diagnosis function are available.
Counterweight	Total weight is 80 t. Eight counterweight combinations of 0 t, 10 t, 17.5 t, 22 t, 37 t, 47 t, 57 t and 80 t are available.
Hook block	11 t hook block, 35 t hook block and 80 t hook block. Equipped with 22 mm wire rope and it is interchangeable with 250 tonnage product hooks.
Wireless remote controller	Full-function wireless remote control can be used to carry out the remote control of main operations (telescoping, luffing, winch, slewing), auxiliary operations (operator' cab, counterweight cylinder, swing-away jib stowing and unfolding) and chassis outrigger operations, also for engine operations and lights control, improving the convenience and security of crane operations.
Luffing system	Single cylinder luffing, with counterbalance valve featuring the load compensation function.
Boom	7-section boom with U-shaped cross-section, welded structure. Single-cylinder pinning telescoping system is adopted. One double-acting cylinder with safety valve is used for controlling the telescoping movements of all boom sections with various telescoping pattern available. Boom length: 14 m ~ 76 m.

Configuration and optional equipment

Configuration	Function description
Standard	7-section boom of 76m.

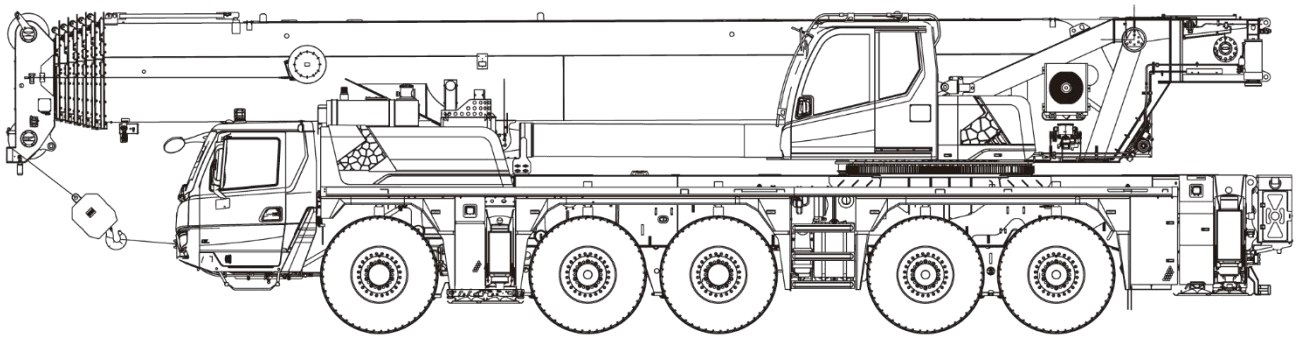
Note: This product has only standard configuration.

Optional equipment	
Hook block	170 t hook block, 125 t hook block, 12 t hook block
Auxiliary winch	Hydraulic control is used for speed regulation. The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake, a counterbalance valve and a grooved drum equipped. Independently operated from the main winch.
Hydraulic luffing jib	2-section slewing-away jib with the 1st section of lattice structure and the 2nd section of box-type structure. It has an auxiliary cylinder and 3 offset angles of 0°, 20° and 40°. Jib length: 10 m～17 m.
Hydraulic jib extension	8m, 8m, 12m
Independent jib head	Lattice jib, welded structure, attached to boom head. Length of independent jib head: 4 m
Eddy current	Installed on axle 5
Four-axle drive configuration	Axles 2, 3, 4 and 5 for driving
Heating system	Independent heating for driver’s cab
Rear towing device *	18t
Tire stopper	Total 4
Spark arrestor	Installed on the exhaust pipe
Coolant level heating system	It is used in the engine water circulation system for preheating and starting the engine under low-temperature.
Hydraulic electric power unit	Plug-in or pure electric operation

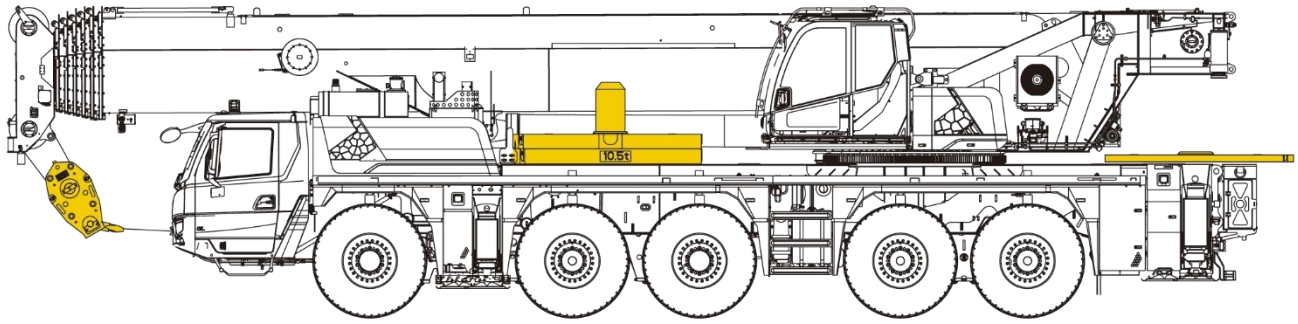
Weight

	1	2	3	4	5	Total weight
t	12	12	12	12	12	60[1)]
t	16.5	16.5	16.5	16.5	16.5	82.5[2)]

(1) 60 t: road travel configuration
Superstructure: with boom, 11 t hook block; without counterweight, jib, auxiliary winch, and auxiliary sheave
Chassis: with outriggers, outrigger floats, timber box and outrigger bracket.
Max. travel speed: 80km/h
Driving/steering mode: 10×6×10; tire specification: 445/95R25;
Overall dimensions: 16235×3000×3990



(2) 82.5 t: heavy-load travel configuration
Superstructure: With boom, 35 t hook block, 22 t counterweight (17.5 t on vehicle middle, and 4.5 t on vehicle tail); Without jib, auxiliary winch, and auxiliary sheave.
Chassis: with outriggers, outrigger floats, timber box and outrigger bracket.
Max. travel speed: 30km/h
Driving/steering mode: 10×6×10; tire specification: 445/95R25;
Overall dimensions: 16700×3000×3990



Weight

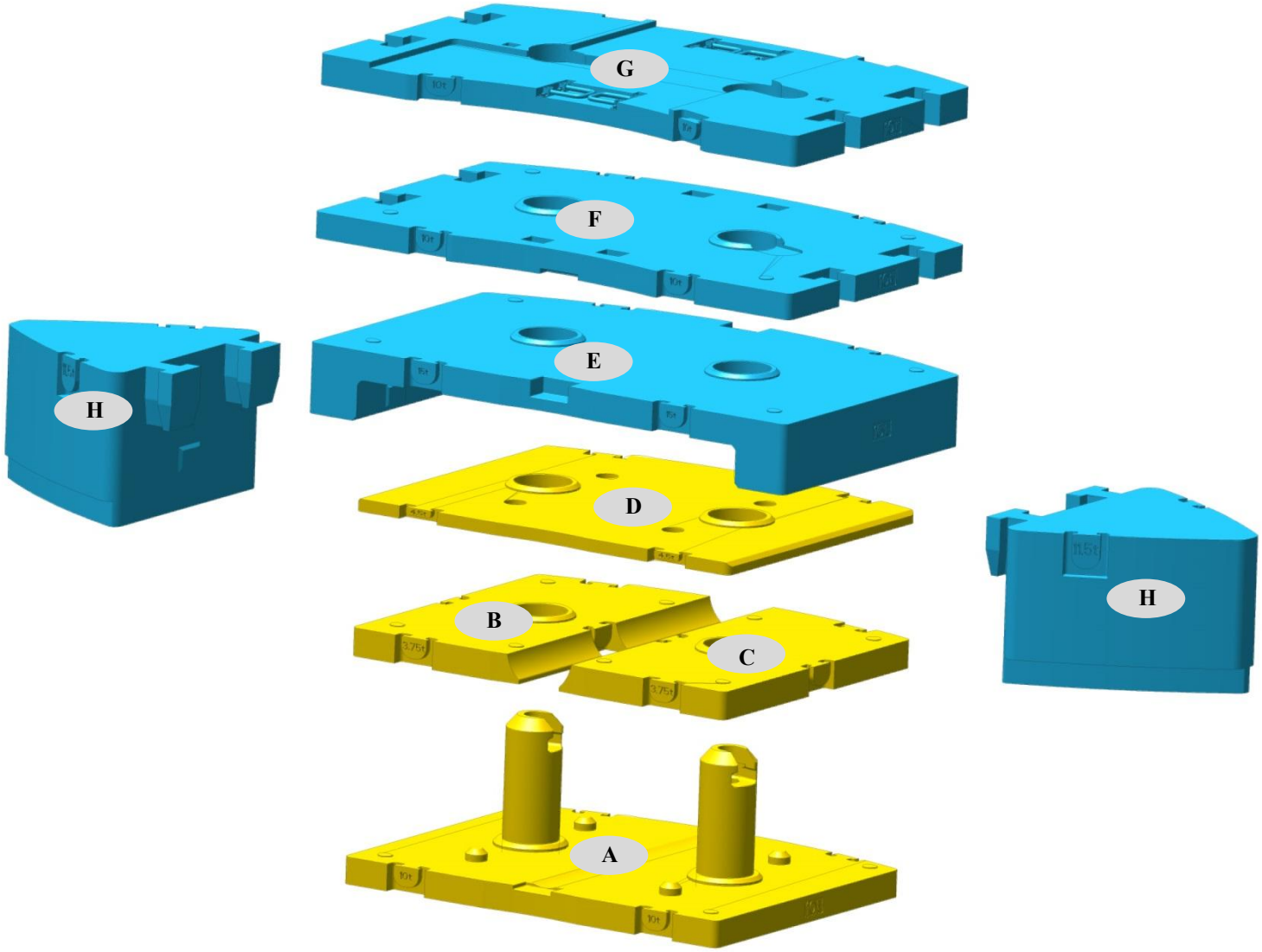
	Parts of line	Hook block weight (kg)	Hook block dimension (mm)	Notes
170 t	15	1920	2076×606×842	Dual hooks
125 t	11	1500	1886×581×754	Dual hooks
80 t	7	1000	1751×599×436	Dual hooks
35 t	3	600	1366×599×353	Dual hooks
12 t	1	350	910×450×450	Single hook
11 t	1	227	896×400×400	Single hook

Working speeds

445/95R25	80 km/h	60%

	0-130 m/min, single line, 5th layer	107.8 kN	22 mm	300 m
	0-130 m/min, single line, 5th layer	107.8 kN	22 mm	250 m
	0-1.3 r/min			
	Approx. 60s for boom luffing from 0° to 82.5°			
	Approx. 650s for boom extending from 14m to 76m			

Counterweight

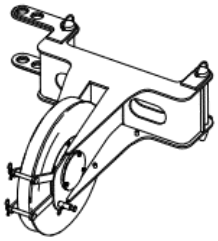
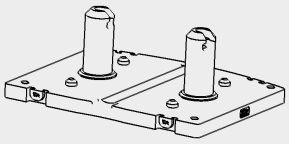
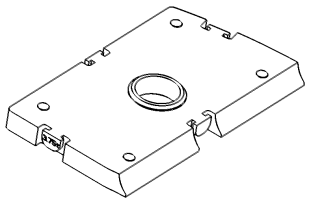
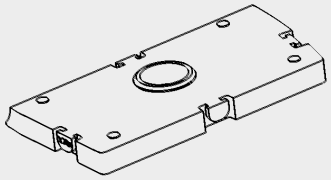
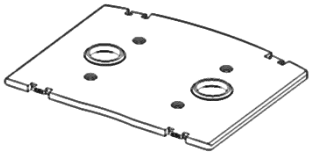
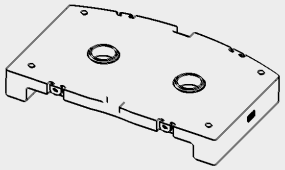


	A	B	C	D	E	F	G	H
Dimensions (L×W×H) (mm)	2980×2395×1067	2438×1330×227	2438×1330×227	2980×2440×120	3800×2440×515	3800×2440×213	3800×2440×210	1737×1685×1050
Weight (t)	10	3.75	3.75	4.5	15	10	10	11.5

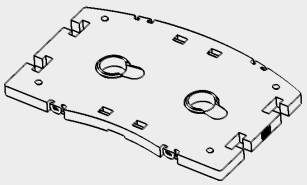
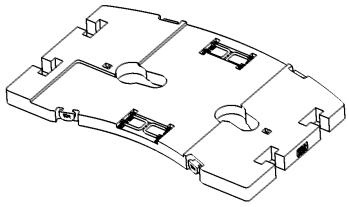
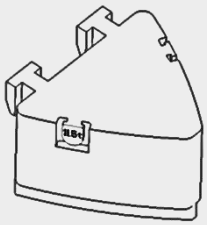
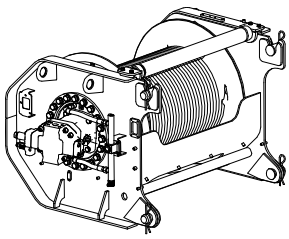
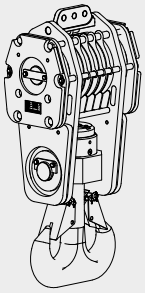
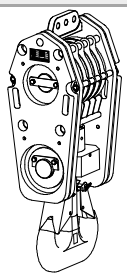
Operation modes	**80 t**	**57t**	**47t**	**37t**	**22t**	**17.5t**	**10t**	**0t**
Combinations	A+B+C+D+E+F+G+H×2	A+B+C+D+E+F+G	A+B+C+D+E+F	A+B+C+D+E	A＋B＋C＋D	A+B+C	A	——

Note: the yellow counterweight slabs can be carried during heavy-load jobsite transfer, and blue slabs cannot be carried.

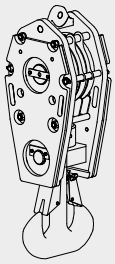
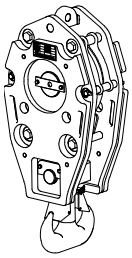
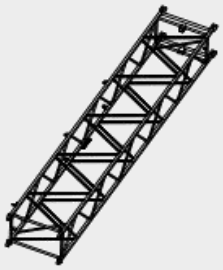
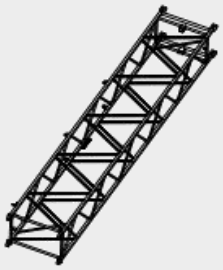
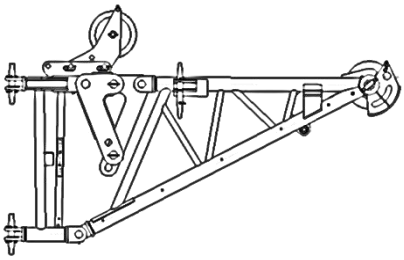
Dimensions of parts to be transported

Name	Illustration	Single weight (kg)	Qty	Dimension (mm)
Jib (hydraulic)		2000	1	14440×1380×1870
Auxiliary sheave (single top)		83	1	856×856×518
Counterweight slab A		10000	1	2980×2395×1067
Counterweight slab B		3750	1	2438×1330×227
Counterweight slab C		3750	1	2438×1330×227
Counterweight slab D		4500	1	2980×2440×120
Counterweight slab E		15000	1	3800×2440×515

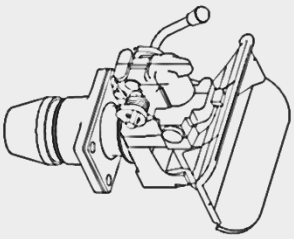
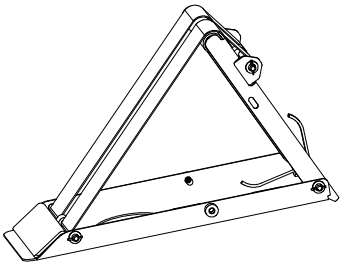
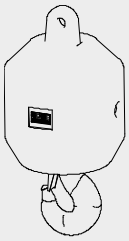
Dimensions of parts to be transported

Name	Illustration	Single weight (kg)	Qty	Dimension (mm)
Counterweight slab F		10000	1	3800×2440×213
Counterweight slab G		10000	1	3800×2440×210
Counterweight slab H		11500	2	1737×1685×1050
Auxiliary winch		1060	1	1460×1010×860
170 t hook block		1920	1	2076×606×842
125 t hook block		1500	1	1886×581×754

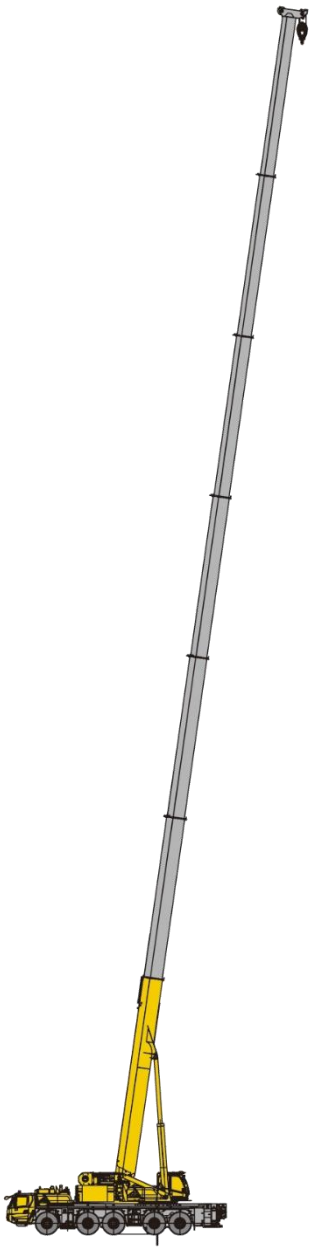
Dimensions of parts to be transported

Name	Illustration	Single weight (kg)	Qty	Dimension (mm)
80 t hook block		1000	1	1751×599×436
35 t hook block		600	1	1366×599×353
Extension I		640	1	8150×950×1580
Extension II		620	1	8150×950×1600
Extension III		865	1	12150×950×1580
Independent jib head		800	1	4150×1650×650

Dimensions of parts to be transported

Name	Illustration	Single weight (kg)	Qty	Dimension (mm)
Rear towing device		50.5	1	505×360×340
Tire stopper		20	4	672×411×246
12 t hook block		350	1	910×450×450

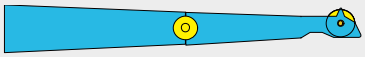
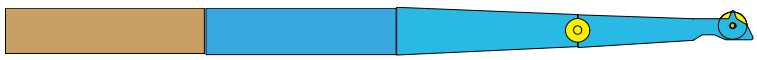
Boom/jib combinations

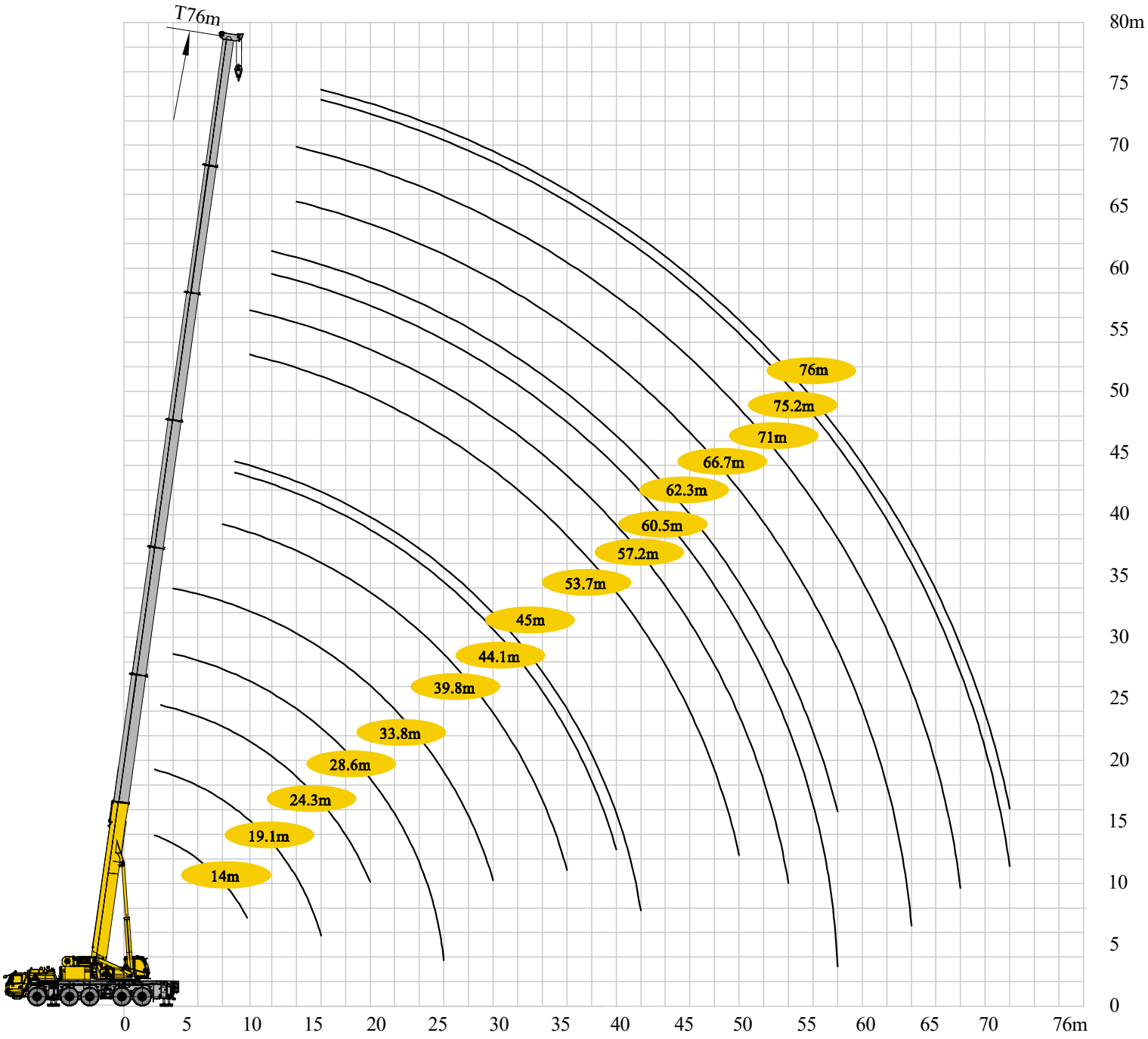


Boom
T: 14-76 m

Boom/jib combinations

Components	Structure	Length (m)
The 1st jib section		10
The 2nd jib section		7
Extension I		8
Extension II		8
Extension III		12

Jib – 10 m	
Jib – 17 m	
Boom extension I + jib-25 m	
Boom extension III + jib-29 m	
Boom extension I + boom extension II + jib-33 m	
Boom extension I + boom extension III + jib-37 m	
Boom extension I + boom extension II + boom extension III + jib-45 m	


T76m
80m
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
76m
75.2m
71m
66.7m
62.3m
60.5m
57.2m
53.7m
45m
44.1m
39.8m
33.8m
28.6m
24.3m
19.1m
14m
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30
35
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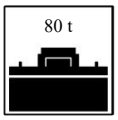
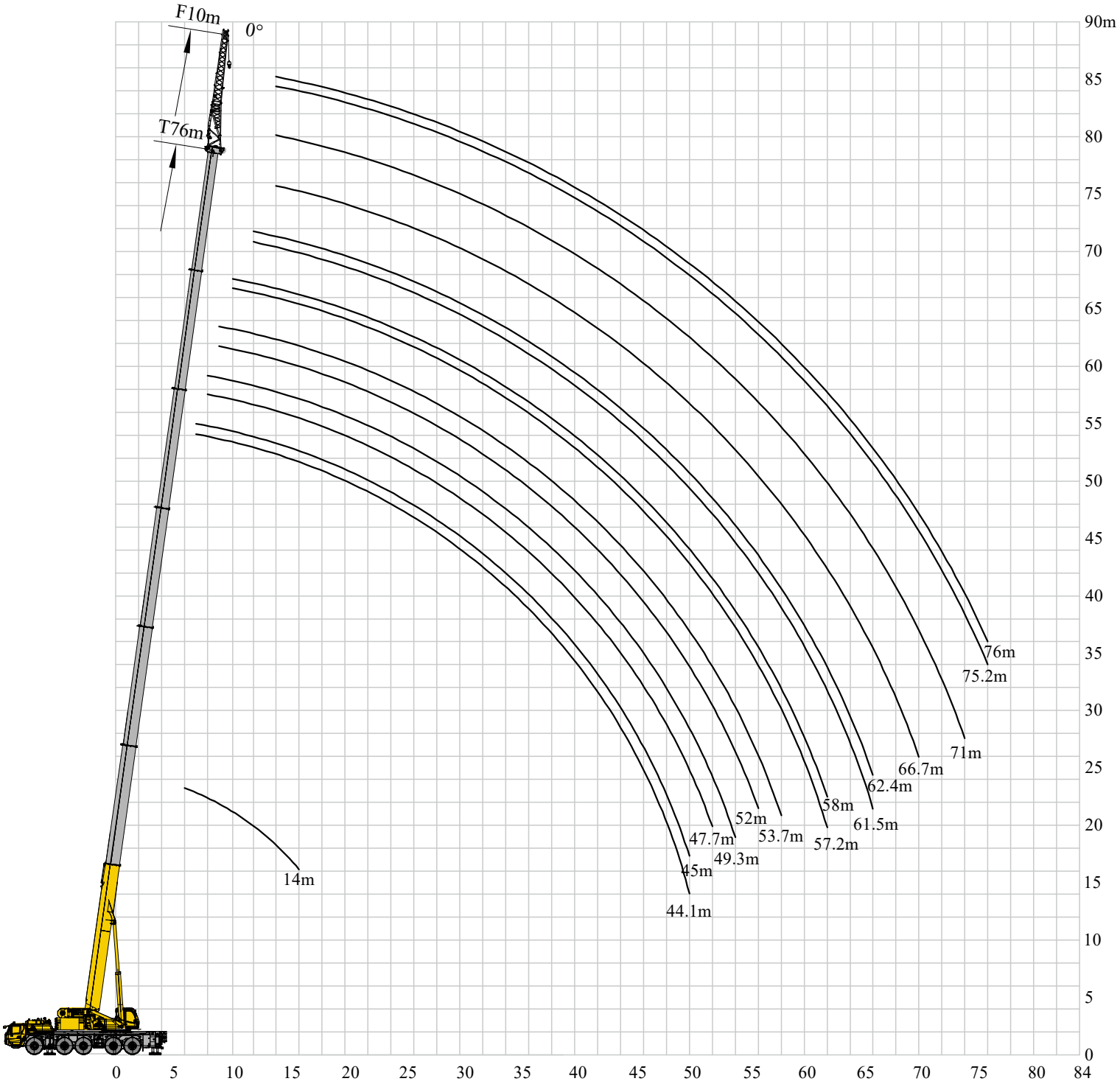
60
65
70
76m

T 14.0~76 m



	14.0*	14.0	19.1	24.3	28.6	33.8	39.8	44.1	45	53.7	57.2	60.5	62.3	66.7	71	75.2	76	
2.5	250**	134.0	124.0															2.5
3	137.5	134.0	124.0	101.0														3
3.5	136.0	134.0	124.0	101.0														3.5
4	135.0	131.0	124.0	101.0	91.0	53.4												4
4.5	131.8	125.0	122.9	101.0	91.0	51.2												4.5
5	123.7	117.0	114.1	101.0	91.0	49.1												5
6	109.5	102.4	100.4	97.5	86.8	72.0												6
7	97.4	90.7	89.7	87.8	76.9	72.0												7
8	86.3	81.9	80.9	79.0	67.0	62.9	62.5											8
9	76.3	74.1	73.1	71.2	63.2	59.2	62.5	52.5	52.5									9
10	65.2	63.9	67.3	65.3	59.5	55.5	61.4	48.8	51.2	38.3	27.0							10
12			57.5	55.6	52.5	48.1	52.7	40.4	47.3	35.2	27.0	18.6	21.7					12
14			48.5	48.5	45.5	40.7	45.8	36.7	43.7	32.0	27.0	17.6	21.7	17.6	14.7			14
16			34.2	41.8	38.5	33.3	39.0	33.0	39.0	28.9	26.6	16.6	21.7	17.6	14.7	12.1	11.5	16
18				36.1	35.1	30.3	34.2	30.0	34.1	25.7	24.5	15.6	21.7	17.6	14.7	12.1	11.5	18
20				31.1	31.2	27.6	31.6	26.9	31.2	22.6	21.3	14.6	20.9	17.5	14.7	12.0	11.4	20
22					26.9	24.9	29.3	23.8	27.3	20.9	20.4	13.8	18.4	16.7	14.2	12.0	11.4	22
24					23.0	22.3	26.2	22.1	25.4	19.4	18.6	13.0	17.1	15.8	13.7	12.0	11.4	24
26					14.3	21.3	23.3	20.4	22.4	18.1	17.1	12.2	15.8	14.6	13.2	11.7	11.4	26
28						18.8	20.8	18.6	20.0	16.7	15.8	11.2	14.6	13.6	12.6	11.1	11.2	28
30						15.3	18.8	16.9	18.0	15.4	13.2	10.5	13.3	12.5	11.7	10.2	10.2	30
32							17.0	15.2	16.2	14.9	13.6	9.8	12.3	11.6	10.8	9.8	9.7	32
34							15.4	13.6	14.6	13.9	12.6	9.2	11.5	10.8	10.0	9.1	9.0	34
36							12.7	12.3	13.3	13.1	11.8	8.6	10.7	10.0	9.3	8.5	8.4	36
38								11.3	12.1	11.9	11.0	8.1	10.0	9.3	8.7	8.0	7.9	38
40								10.5	11.0	10.8	9.3	7.7	9.5	8.7	8.2	7.5	7.4	40
42									6.5	9.9	8.7	7.3	8.9	8.2	7.7	7.1	7.0	42
44										9.0	8.3	6.9	8.4	7.8	7.3	6.6	6.6	44
46										8.2	7.8	6.5	8.0	7.3	6.9	6.2	6.2	46
48										7.5	7.2	6.1	7.6	6.9	6.5	5.8	5.8	48
50										5.8	7.0	5.9	7.2	6.5	6.1	5.5	5.4	50
52											6.7	5.6	6.9	6.2	5.7	5.1	5.1	52
54											5.6	5.3	6.7	5.9	5.2	5.0	4.8	54
56												5.1	6.4	5.6	4.9	4.6	4.2	56
58												1.2	5.9	5.3	4.6	4.4	4.2	58
60														5.1	4.3	4.1	4.0	60
62														4.8	4	3.9	3.8	62
64														1.2	4.0	3.5	3.1	64
66															3.7	3.5	3.1	66
68															1.4	3.2	3.1	68
70																3.1	3.0	70
72																1.4	2.1	72

*over rear **capacity class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76m
75.2m
71m
66.7m
62.4m
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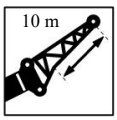
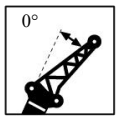
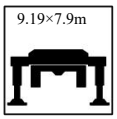
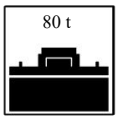
T 14~76 m









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7	17.3	16.7	16.3													7
8	16.2	16.7	16.2	12	14.9											8
9	15.1	16.7	16.1	12	14.8	11.1	13.7									9
10	14.2	16.7	16.1	12	14.7	11	13.5	10.3	11.9							10
12	12.2	16.6	15.8	12	14.6	10.9	13.2	10.2	11.7	9.5	10.2					12
14	10.5	16.1	15.5	11.8	14.4	10.8	13	10.1	11.7	9.4	10.2	8.8	7.1	6.2	5.8	14
16	9.5	15.2	14.8	11.8	14.2	10.7	12.8	10	11.6	9.2	10.1	8.8	7.1	6.2	5.8	16
18		14.4	14	11.2	13.8	10.6	12.7	10	11.5	9.2	10	8.8	7.1	6.2	5.8	18
20		13.6	13.3	10.3	13.3	10	12.6	9.9	11.4	9.2	10	8.8	7.1	6.2	5.8	20
22		12.9	12.6	9.4	12.7	9.2	12.5	9.9	11.3	9.1	10	8.7	7.1	6.2	5.8	22
24		12.3	12.1	8.6	12.1	8.4	12.1	9.1	11.1	9.1	9.9	8.7	7.1	6.2	5.8	24
26		11.6	11.4	8	11.6	7.8	11.6	8.5	11	8.4	9.9	8.7	7.1	6.2	5.8	26
28		10.8	10.7	7.4	11.2	7.3	11.2	7.9	11	7.8	9.7	8.7	7.1	6.2	5.8	28
30		10.1	10	6.9	10.6	6.7	10.8	7.3	10.2	7.3	9.1	8.1	7.1	6.2	5.8	30
32		9.7	9.6	6.4	9.9	6.3	10.3	6.8	9.5	6.7	8.4	7.5	6.7	6.2	5.8	32
34		9.2	9.1	6	9.6	5.9	9.9	6.4	9	6.4	7.9	7	6.2	5.8	5.6	34
36		8.7	8.7	5.7	9.1	5.5	9.5	6	8.3	6	7.3	6.5	5.9	5.5	5.1	36
38		8.3	8.2	5.4	8.6	5.1	9.1	5.6	7.8	5.6	6.9	6.2	5.5	5.1	4.8	38
40		7.9	7.8	5	8.3	4.9	8.6	5.3	7.4	5.3	6.4	5.8	5.1	4.7	4.5	40
42		7.5	7.4	4.8	7.8	4.6	8.1	5	7	5	6.1	5.4	4.8	4.4	4.2	42
44		7.2	7.1	4.5	7.5	4.3	7.7	4.8	6.6	4.7	5.7	5.1	4.5	4.2	3.9	44
46		6.8	6.8	4.3	7.2	4.1	7.2	4.6	6.2	4.4	5.4	4.8	4.2	4	3.7	46
48		6.4	6.5	4.1	6.8	4	6.4	4.3	5.8	4.3	5.1	4.5	4	3.7	3.5	48
50		4.7	4.7	4	6.2	3.8	6	4.1	5.6	4	4.7	4.3	3.8	3.5	3.2	50
52				3.7	5.7	3.6	5.5	4	5.3	3.9	4.5	4	3.6	3.3	3.1	52
54					5.2	3.4	5	3.7	4.9	3.7	4.3	3.8	3.4	3.2	2.9	54
56						3.3	4.5	3.6	4.5	3.5	4.1	3.7	3.2	3	2.7	56
58							4.1	3.5	4.1	3.4	3.9	3.5	3	2.9	2.6	58
60								3.4	3.7	3.2	3.6	3.3	2.8	2.6	2.5	60
62								3.2	3.3	3	3.4	3.1	2.7	2.5	2.2	62
64										2.9	3.1	3	2.6	2.4	2.1	64
66										2.8	2.8	2.9	2.4	2.3	2	66
68												2.6	2.3	2.1	1.9	68
70												2.4	2.2	2	1.8	70
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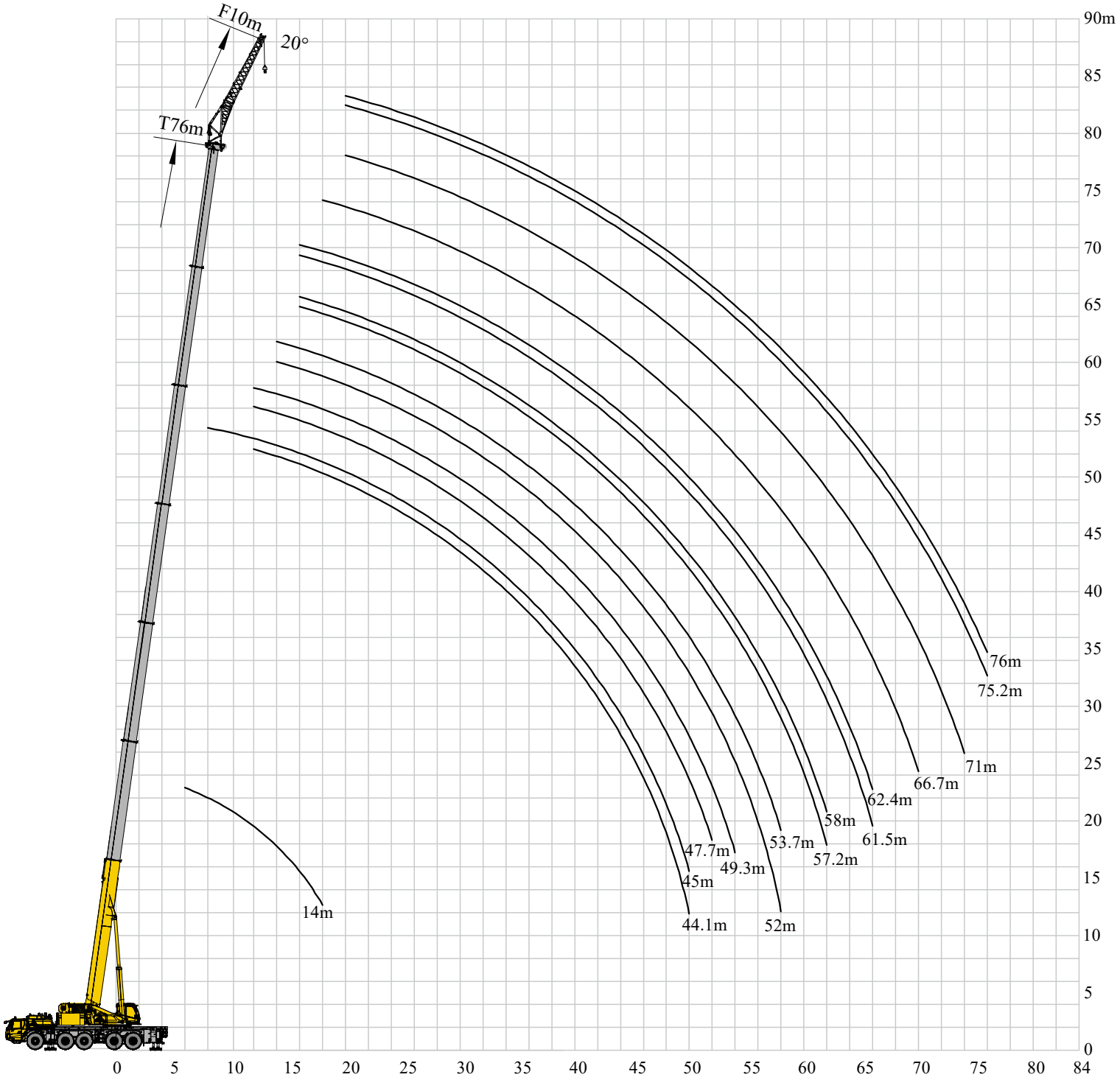
74													1.9	1.8	1.6	74
76														1.7	1.4	76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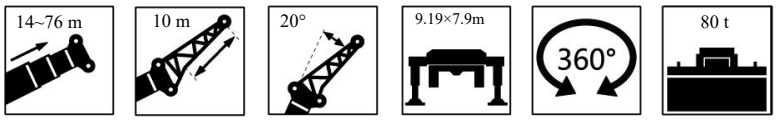

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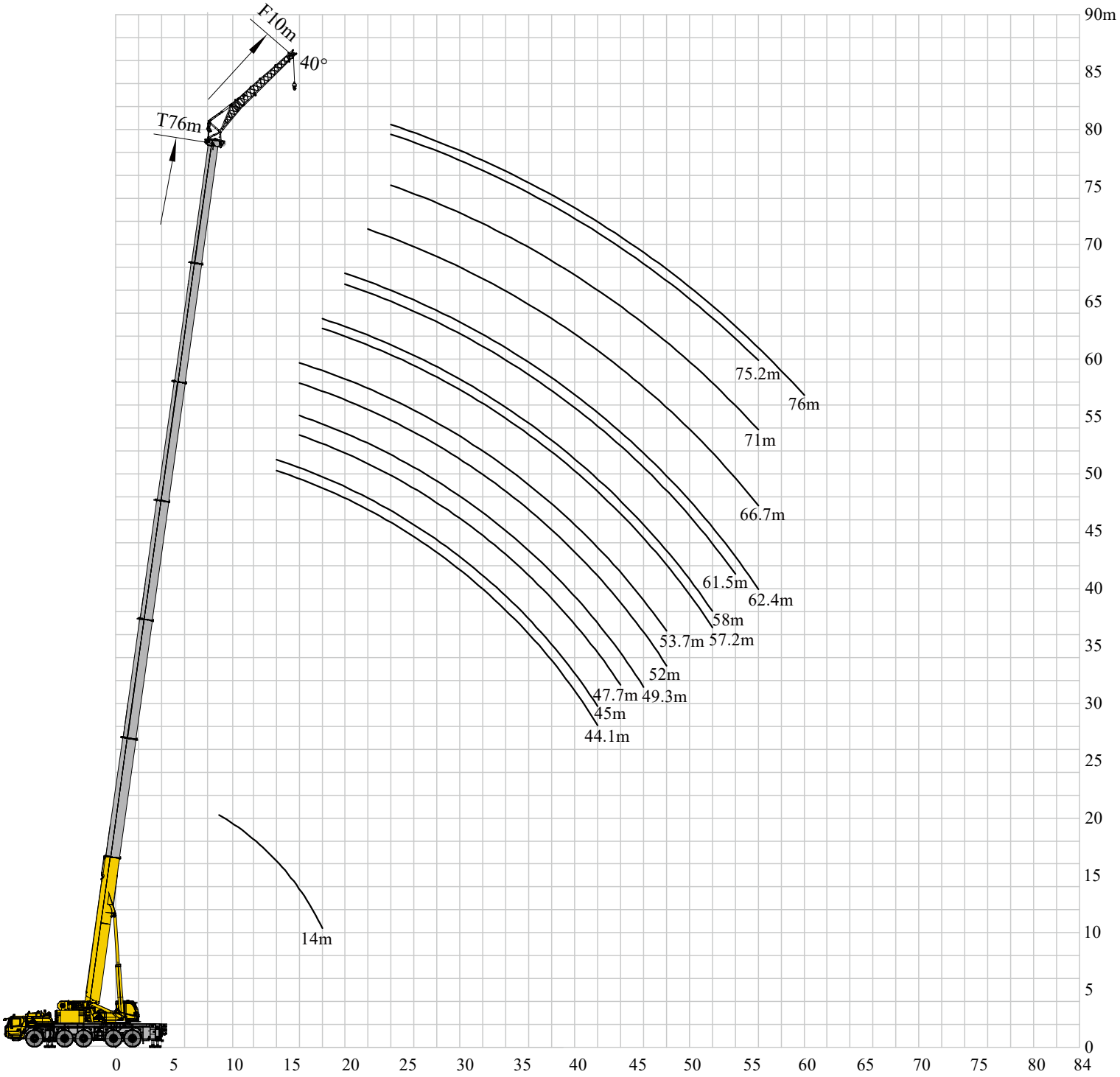
6	13.3															6
7	12.6															7
8	12.1															8
9	11.6															9
10	11.1															10
12	10.3	11.9	11.7	10.1	11.6											12
14	9.8	11.4	11.2	10	11.1	9.2	10.6									14
16	8.9	10.9	10.8	9.9	10.7	9.1	10.5	8.3	9.7	8.1	8.6					16
18	8	10.6	10.5	9.8	10.4	9.1	10.3	8.3	9.7	8	8.6	7.6				18
20		10.1	10	9.5	10.1	9.1	10	8.3	9.6	7.9	8.5	7.5	6.6	5.9	5.4	20
22		9.8	9.8	9	9.8	8.8	9.8	8.3	9.5	7.9	8.5	7.5	6.5	5.9	5.4	22
24		9.6	9.5	8.4	9.5	8.1	9.5	8.3	9.4	7.9	8.5	7.5	6.4	5.9	5.4	24
26		9.3	9.2	7.8	9.3	7.5	9.3	8.3	9.2	7.9	8.4	7.5	6.4	5.9	5.4	26
28		9	9	7.2	9.1	7	9	7.6	9	7.7	8.4	7.5	6.4	5.9	5.4	28
30		8.8	8.8	6.8	8.8	6.6	8.9	7.2	8.8	7.1	8.4	7.5	6.4	5.9	5.4	30
32		8.5	8.5	6.4	8.6	6.1	8.7	6.7	8.6	6.7	8.4	7.5	6.4	5.9	5.4	32
34		8.1	8.1	5.9	8.3	5.7	8.4	6.3	8.5	6.3	7.8	6.9	6.2	5.8	5.4	34
36		7.8	7.8	5.6	8	5.4	8.1	5.9	8.2	5.9	7.4	6.5	5.8	5.4	5.4	36
38		7.6	7.4	5.3	7.7	5	7.9	5.6	7.9	5.6	6.9	6.1	5.4	5.1	5	38
40		7.2	7.3	5	7.5	4.9	7.6	5.3	7.5	5.2	6.5	5.7	5.1	4.7	4.7	40
42		7.1	6.9	4.8	7.2	4.5	7.4	5.1	7.1	5	6.2	5.4	4.7	4.4	4.4	42
44		6.7	6.8	4.5	7	4.3	7.2	4.8	6.7	4.7	5.8	5.1	4.5	4.2	4.1	44
46		6.6	6.6	4.4	6.8	4.2	7	4.6	6.3	4.5	5.5	4.8	4.2	3.9	3.8	46
48		6.5	6.5	4.1	6.6	4	6.8	4.3	6	4.3	5.1	4.5	4	3.7	3.6	48
50		4.6	4.6	4	6.4	3.8	6.2	4.2	5.7	4.1	4.9	4.3	3.7	3.5	3.4	50
52				3.8	5.8	3.6	5.6	3.9	5.4	3.9	4.7	4.1	3.5	3.3	3.3	52
54					5.3	3.5	5.1	3.8	4.9	3.7	4.4	3.9	3.3	3.1	3.1	54
56						3.3	4.6	3.7	4.6	3.6	4.2	3.7	3.2	3	2.9	56
58						3.2	4.1	3.6	4.1	3.3	4	3.5	3	2.8	2.7	58
60								3.4	3.7	3.2	3.8	3.3	2.9	2.7	2.6	60
62								3.3	3.3	3.1	3.4	3.2	2.7	2.5	2.4	62
64										2.9	3	3	2.6	2.4	2.3	64
66										2.8	2.7	2.9	2.5	2.3	2.2	66
68												2.6	2.3	2.1	2.1	68
70												2.3	2.2	2	1.9	70
72													2	1.9	1.8	72
74													1.8	1.7	1.7	74
76														1.7	1.4	76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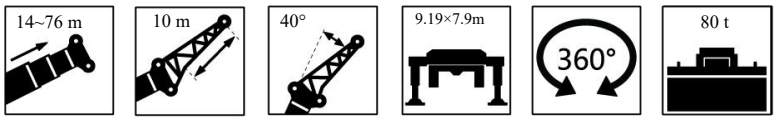

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9	8.3															9
10	8															10
12	7.4															12
14	7.1	7.8	7.8													14
16	7	7.6	7.5	7.3	7.6	7.2	7.6									16
18	6.8	7.4	7.4	7.2	7.3	7.1	7.3	7.1	7.3							18
20		7.2	7.2	7	7.2	7	7.1	6.9	7.2	6.8	7					20
22		7.1	7	6.9	7	6.8	7	6.8	7	6.7	6.9	6.8				22
24		6.8	6.9	6.7	6.9	6.7	6.9	6.7	6.9	6.6	6.7	6.7	5.9	5.4	5.2	24
26		6.7	6.7	6.6	6.7	6.6	6.8	6.6	6.8	6.5	6.6	6.6	5.9	5.4	5.2	26
28		6.5	6.5	6.5	6.6	6.5	6.6	6.5	6.5	6.4	6.5	6.5	5.9	5.4	5.2	28
30		6.4	6.4	6.4	6.5	6.4	6.5	6.4	6.4	6.3	6.4	6.4	5.9	5.4	5.2	30
32		6.3	6.3	6.3	6.4	6.2	6.4	6.3	6.3	6.2	6.3	6.3	5.9	5.4	5.2	32
34		6.2	6.2	6.1	6.2	6.1	6.3	6.2	6.2	6.1	6.2	6.2	5.9	5.4	5.2	34
36		6.2	6.1	6	6.1	5.7	6.2	6.1	6.1	6	6.1	6.1	5.9	5.4	5.2	36
38		6.1	6.1	5.8	6.1	5.5	6.1	5.9	6.1	5.9	6	5.9	5.9	5.4	5.2	38
40		6.1	6.1	5.5	6.1	5.3	6.1	5.7	6	5.6	6	5.9	5.6	5	5	40
42		6.1	6.1	5.3	6.1	5	6	5.5	6	5.4	6	5.8	5.4	4.9	4.8	42
44				5.1	6.1	4.8	6	5.2	5.9	5.2	5.9	5.6	5.2	4.5	4.5	44
46					6.1	4.6	6	5.1	5.9	5	5.9	5.3	4.9	4.4	4.4	46
48						4.5	6	4.9	5.9	4.8	5.8	5.1	4.7	4.2	4	48
50								4.7	5.9	4.6	5.6	4.9	4.5	3.9	3.9	50
52								4.5	5.3	4.4	5.4	4.7	4.3	3.8	3.8	52
54										4.3	5.1	4.5	4.2	3.7	3.5	54
56											4.4	4.3	4	3.5	3.4	56
58															3.3	58
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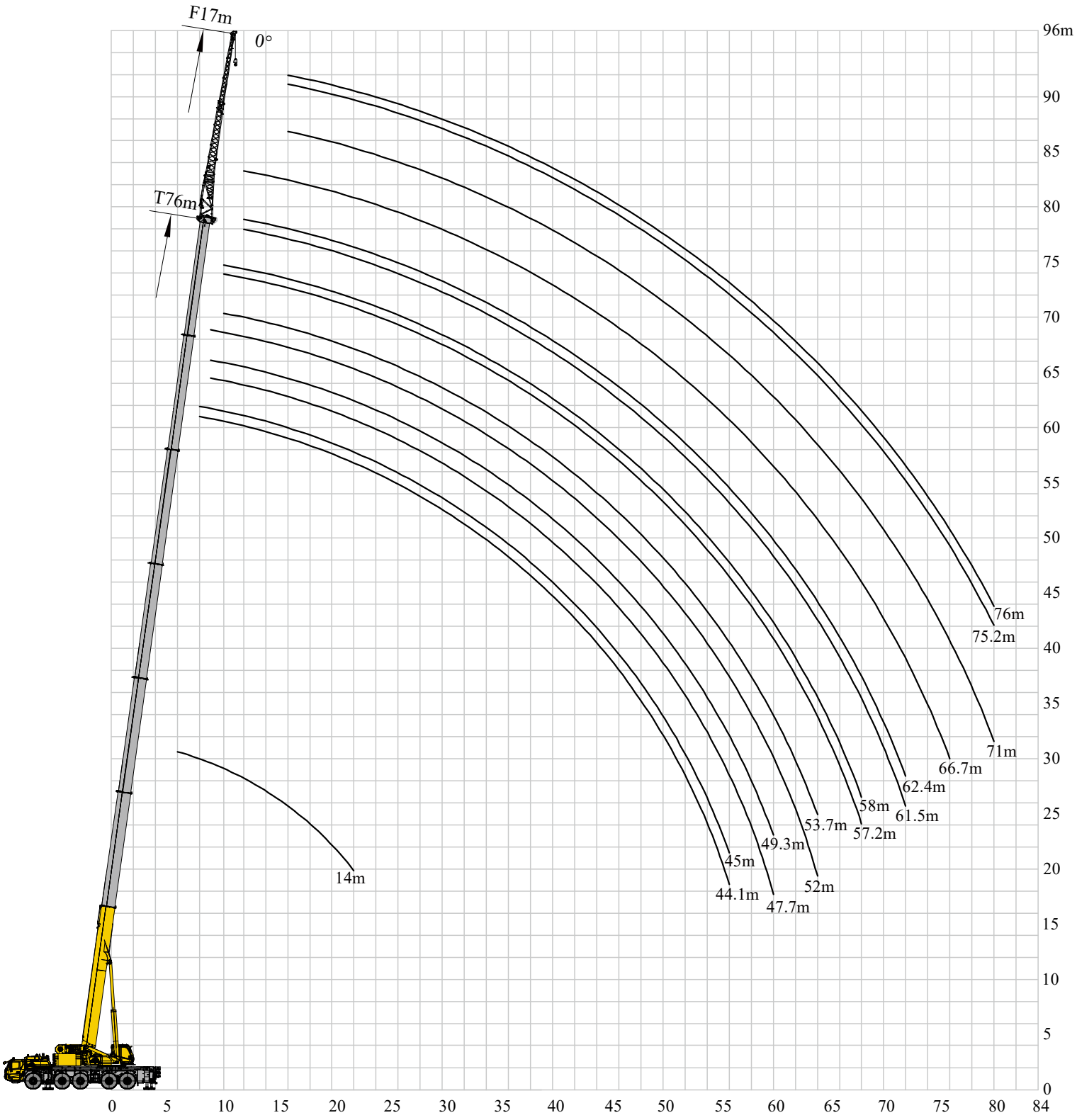
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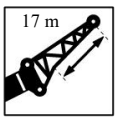
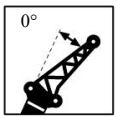
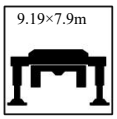
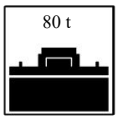
96m

T 14~76 m

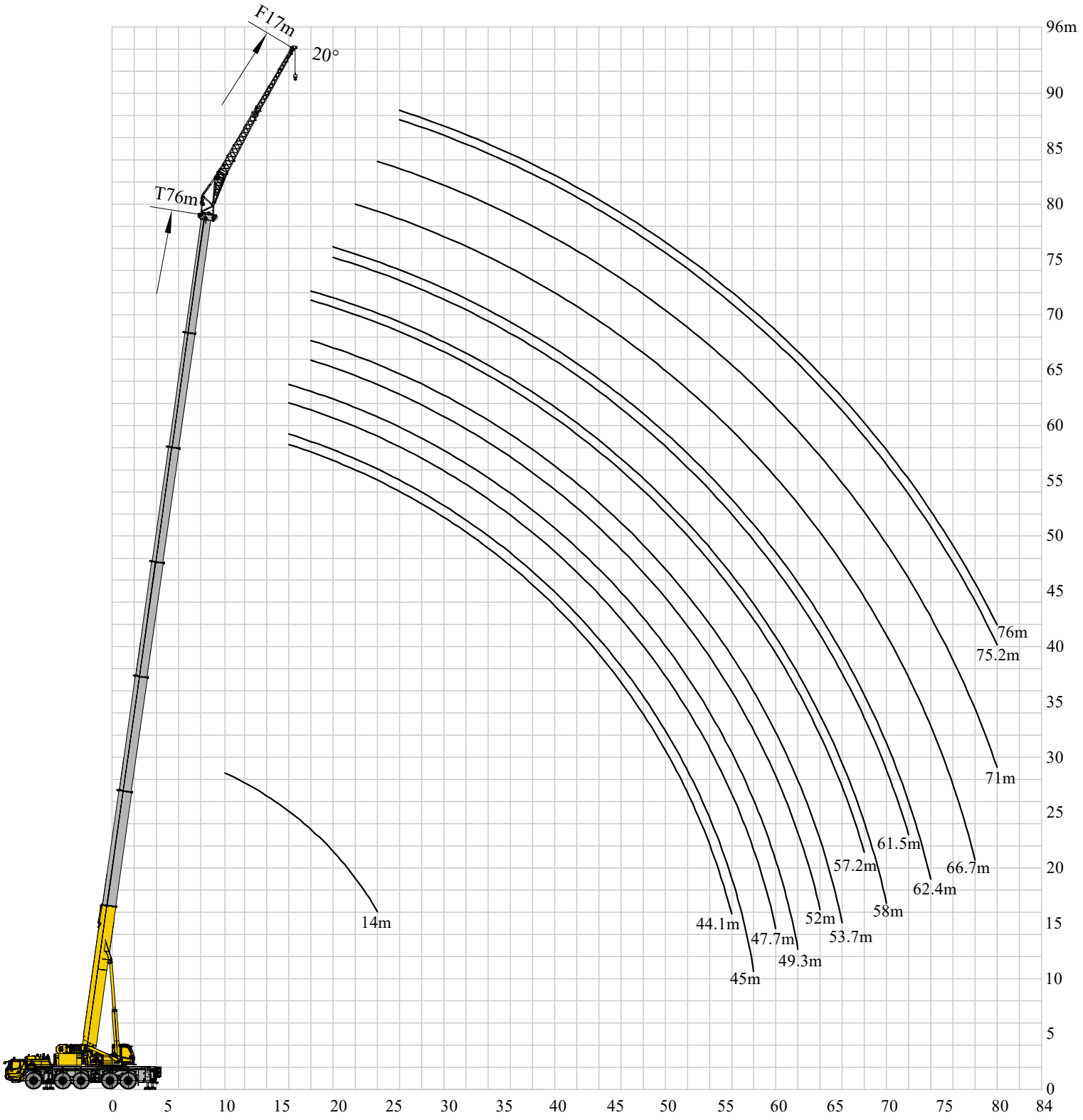








	14	44.1	45	47.7	49.3	52	53.7	57.2	58	61.5	62.3	66.7	71	75.2	76	
6	7.8															6
7	7.2															7
8	6.7	8.3	8													8
9	6.2	8	7.7	7.1	7.5	6.2										9
10	5.8	7.7	7.4	6.8	7.3	6.1	7	6	5.8							10
12	5.2	7.1	6.9	6.3	6.9	6	6.8	5.8	5.8	4.8	5.4	4.9				12
14	4.6	6.5	6.4	6	6.4	5.8	6.4	5.6	5.8	4.8	5.3	4.8				14
16	4.2	6	5.9	5.5	6.1	5.5	6	5.4	5.8	4.8	5.2	4.7	4.3	3.8	3.7	16
18	3.8	5.6	5.6	5.3	5.6	5.2	5.7	5.2	5.6	4.7	5	4.7	4.2	3.8	3.6	18
20	3.5	5.3	5.3	5	5.2	4.9	5.3	4.9	5.3	4.5	4.7	4.6	4.1	3.8	3.6	20
22	3.2	4.9	4.9	4.7	4.9	4.6	5	4.7	5	4.3	4.6	4.5	4.1	3.7	3.6	22
24		4.6	4.6	4.4	4.7	4.5	4.7	4.5	4.7	4.1	4.4	4.2	4.1	3.7	3.6	24
26		4.4	4.3	4.3	4.4	4.3	4.5	4.2	4.6	4	4.2	4.1	4	3.7	3.6	26
28		4.1	4	4	4.2	4.1	4.4	4.1	4.3	3.8	4	3.9	3.7	3.7	3.6	28
30		4	3.9	3.8	4	3.9	4.1	3.9	4.2	3.7	3.8	3.8	3.6	3.6	3.5	30
32		3.7	3.7	3.6	3.8	3.7	4	3.8	4	3.5	3.7	3.7	3.5	3.4	3.4	32
34		3.5	3.6	3.5	3.7	3.6	3.8	3.6	3.9	3.4	3.5	3.6	3.5	3.4	3.4	34
36		3.4	3.4	3.4	3.5	3.4	3.7	3.5	3.7	3.3	3.4	3.4	3.4	3.3	3.3	36
38		3.2	3.3	3.2	3.3	3.3	3.6	3.4	3.6	3.2	3.3	3.3	3.3	3.2	3.2	38
40		3.1	3.2	3.1	3.2	3.2	3.3	3.3	3.4	3	3.2	3.2	3.2	3.1	3.1	40
42		3	3.1	3	3.1	3.1	3.2	3.2	3.3	2.9	3	3.1	3.1	3	3	42
44		2.9	2.9	2.9	3	3	3.1	3.1	3.2	2.8	2.9	3	3	2.9	2.9	44
46		2.8	2.8	2.8	2.9	2.9	3	3	3.1	2.7	2.8	2.9	2.9	2.8	2.8	46
48		2.7	2.7	2.6	2.8	2.8	2.9	2.9	3	2.6	2.7	2.8	2.8	2.7	2.7	48
50		2.6	2.6	2.5	2.6	2.7	2.8	2.8	2.9	2.5	2.6	2.7	2.7	2.6	2.6	50
52		2.4	2.5	2.5	2.5	2.6	2.7	2.7	2.8	2.5	2.5	2.6	2.6	2.6	2.5	52
54		2.4	2.4	2.4	2.5	2.4	2.6	2.6	2.7	2.4	2.4	2.5	2.5	2.5	2.5	54
56		2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.6	2.3	2.4	2.4	2.4	2.4	2.3	56
58				2.4	2.4	2.4	2.4	2.5	2.5	2.3	2.3	2.4	2.4	2.3	2.1	58
60				2.2	2.3	2.3	2.4	2.4	2.5	2.3	2.2	2.3	2.3	2.1	2	60
62						2.3	2.3	2.4	2.3	2.2	2.2	2.3	2.3	2	1.9	62
64						2.2	2.3	2.3	2.3	2.1	2.2	2.2	2.2	1.8	1.8	64
66								2.3	2.3	2.1	2.1	2.2	2.1	1.7	1.7	66
68								2.2	2.3	2	2.1	2.1	2	1.6	1.6	68
70										1.9	2.1	2	1.8	1.5	1.5	70
72										1.8	2	1.9	1.7	1.4	1.3	72
74												1.8	1.6	1.3	1.2	74
76												1.7	1.5	1.2	1.1	76
78													1.4	1.1	1.1	78
80													1.4	1.1	1	80


F17m
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T76m
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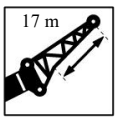
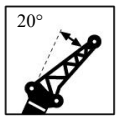
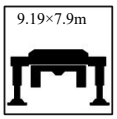
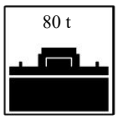
76m
75.2m
71m
66.7m
61.5m
62.4m
57.2m
58m
52m
53.7m
49.3m
47.7m
44.1m
45m
14m

T 14~76 m

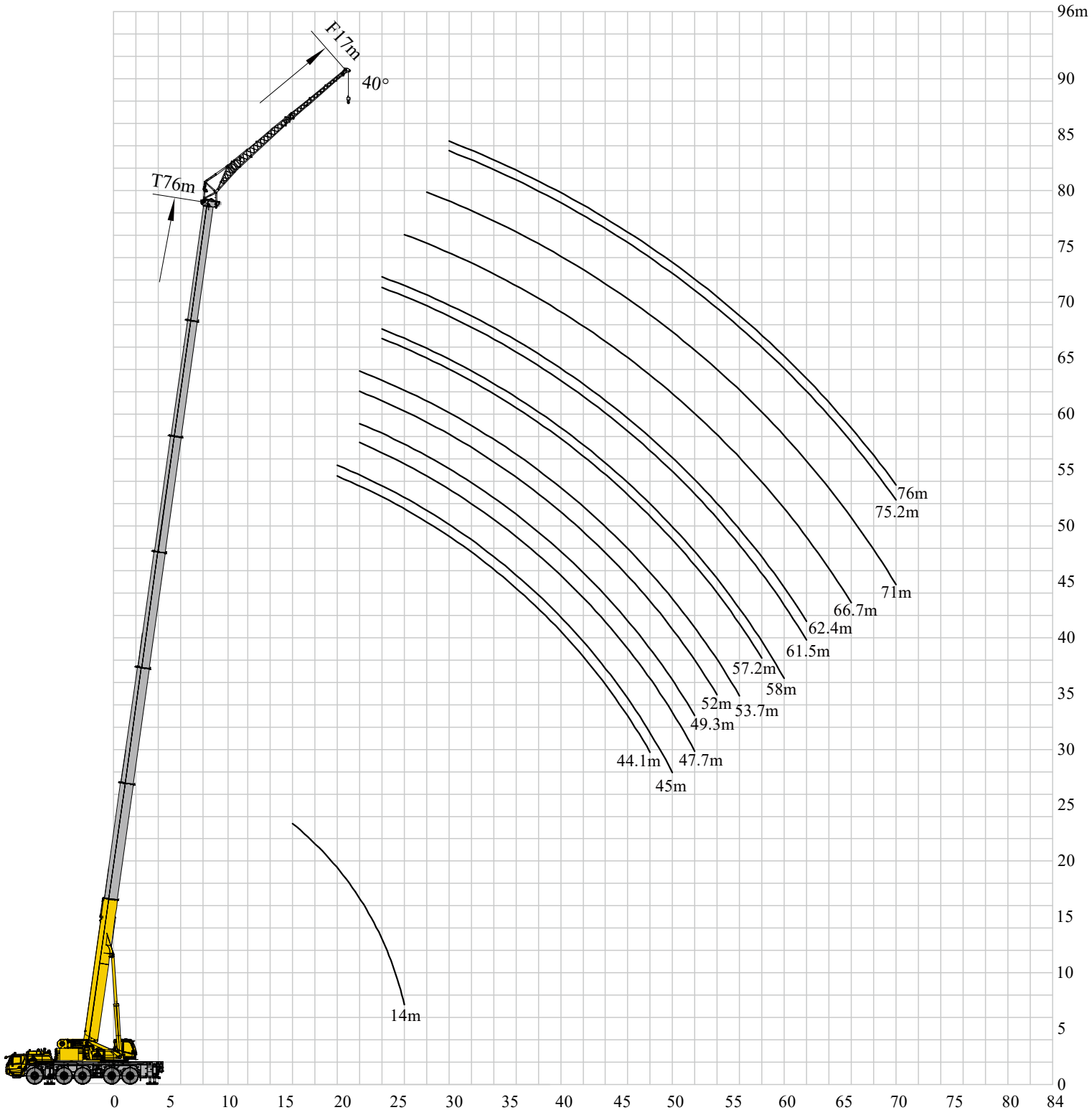








	14	44.1	45	47.7	49.3	52	53.7	57.2	58	61.5	62.3	66.7	71	75.2	76	
10	4.5															10
12	4															12
14	3.7															14
16	3.3	4.1	4.1	3.9	4.1											16
18	3.2	3.8	3.8	3.8	4	3.8	3.9	3.8	3.8							18
20	3	3.7	3.7	3.7	3.7	3.7	3.8	3.6	3.7	3.6	3.6					20
22	2.8	3.6	3.6	3.5	3.6	3.5	3.7	3.5	3.6	3.5	3.5	3.5				22
24	2.7	3.5	3.5	3.3	3.5	3.4	3.5	3.4	3.5	3.4	3.4	3.4	3.3			24
26		3.4	3.4	3.2	3.4	3.3	3.4	3.3	3.4	3.3	3.3	3.3	3.2	3.1	3.1	26
28		3.3	3.3	3.1	3.3	3.2	3.3	3.2	3.3	3.2	3.2	3.2	3.2	3.1	3.1	28
30		3.2	3.2	3	3.2	3.1	3.2	3.1	3.2	3.1	3.1	3.1	3.1	3	3	30
32		3.1	3	2.9	3.1	2.9	3.1	3	3	3	3.1	3	3	2.9	2.9	32
34		3	2.9	2.8	3	2.8	3	2.9	2.9	2.9	3	2.9	2.9	2.8	2.8	34
36		2.8	2.8	2.8	2.9	2.7	2.9	2.8	2.8	2.8	2.9	2.8	2.9	2.8	2.8	36
38		2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	38
40		2.6	2.6	2.6	2.7	2.7	2.7	2.7	2.8	2.7	2.8	2.8	2.7	2.8	2.7	40
42		2.6	2.6	2.6	2.6	2.6	2.7	2.7	2.7	2.6	2.7	2.7	2.7	2.7	2.7	42
44		2.5	2.6	2.6	2.6	2.5	2.6	2.7	2.6	2.6	2.7	2.6	2.7	2.6	2.6	44
46		2.5	2.5	2.5	2.5	2.5	2.6	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6	46
48		2.5	2.5	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.5	48
50		2.4	2.4	2.4	2.5	2.4	2.5	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	50
52		2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.4	52
54		2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.4	54
56		2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	56
58			2.4	2.4	2.4	2.3	2.4	2.3	2.4	2.3	2.4	2.4	2.4	2.4	2.3	58
60				2.4	2.4	2.3	2.3	2.3	2.4	2.3	2.4	2.4	2.4	2.4	2.3	60
62					2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.3	62
64						2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	64
66							2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.1	66
68								2.3	2.3	2.3	2.3	2.3	2.3	2.1	1.9	68
70									2.3	2.3	2.3	2.3	2.3	1.9	1.8	70
72										2.3	2.3	2.3	2.2	1.8	1.8	72
74											1.9	2.3	2	1.7	1.7	74
76												2.1	2	1.6	1.5	76
78												1.6	1.9	1.5	1.5	78
80													1.6	1.5	1.2	80


F17m
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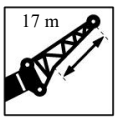
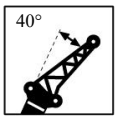
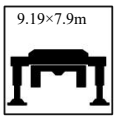
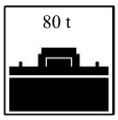
T 14~76 m









	14	44.1	45	47.7	49.3	52	53.7	57.2	58	61.5	62.3	66.7	71	75.2	76	
16	2.8															16
18	2.6															18
20	2.5	2.7	2.7													20
22	2.4	2.6	2.6	2.6	2.6	2.5	2.6									22
24	2.4	2.6	2.5	2.5	2.5	2.5	2.6	2.5	2.5	2.6	2.5					24
26	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.5	2.5				26
28		2.5	2.5	2.4	2.5	2.4	2.5	2.4	2.5	2.3	2.4	2.4	2.4			28
30		2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.4	2.3	2.4	2.4	2.4	2.2	2.2	30
32		2.4	2.4	2.4	2.3	2.4	2.4	2.3	2.3	2.3	2.4	2.4	2.3	2.2	2.2	32
34		2.4	2.4	2.3	2.3	2.3	2.4	2.2	2.3	2.3	2.3	2.3	2.3	2.2	2.2	34
36		2.3	2.3	2.3	2.2	2.3	2.3	2.2	2.3	2.3	2.2	2.3	2.3	2.2	2.2	36
38		2.3	2.3	2.3	2.2	2.3	2.3	2.2	2.3	2.3	2.2	2.3	2.2	2.2	2.2	38
40		2.3	2.3	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	40
42		2.3	2.3	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.1	2.2	2.1	2.2	2.2	42
44		2.3	2.3	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.1	2.2	2.1	2.1	2.1	44
46		2.3	2.3	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.1	2.2	2.1	2.1	2.1	46
48		2.3	2.3	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.1	2.2	2.1	2.1	2.1	48
50			2.3	2.2	2.2	2.2	2.2	2.1	2.2	2.2	2.1	2.2	2.1	2.1	2.1	50
52				2.2	2.2	2.2	2.1	2.1	2.2	2.2	2.1	2.2	2.1	2.1	2.1	52
54						2.2	2.1	2.1	2.2	2.2	2.1	2.2	2.1	2	2	54
56							2.1	2.1	2.2	2.2	2.1	2.2	2.1	2	2	56
58								2.1	2.2	2.2	2.1	2.2	2.1	2	2	58
60									2.2	2.1	2.1	2.2	2.1	2	2	60
62										2.1	2.1	2.2	2.1	2	2	62
64												2.2	2.1	2	2	64
66												2.2	2.1	2	2	66
68													2.1	2	2	68
70													2.1	2	2	70

Main technical parameters

Type	Item		Unit	Parameter
Dimensions	Dimensions (L×W×H)		mm	16235×3000×4000
	Axle spacing		mm	2630+1650+2610+1650
	Track (front/rear)		mm	2529
	Front overhang / rear overhang		mm	2568/2992
	Front extension / rear extension		mm	2135/0
Weight	Max. permissible total weight		kg	60000
	Axle load	Axle 1	kg	12000
		Axle 2	kg	12000
		Axle 3	kg	12000
		Axle 4	kg	12000
		Axle 5	kg	12000
Power	Engine model		——	OM471LA.E5-1
	Maximum net power / RPM		kW/(r/min)	390/1600
	Maximum output torque / RPM		N.m/(r/min)	2600/1300
Travel	Max. travel speed		km/h	80
	Minimum stable travel speed		km/h	3
	Minimum turning diameter		m	19
	Min. ground clearance		mm	357
	Approach angle		°	21
	Departure angle		°	10
	Braking distance (initial speed at 30km/h)		m	≤10
	Max. grade ability		%	60
	Fuel consumption per 100 km		L	70
Noise	Exterior noise level when accelerating		dB(A)	≤83

Main technical parameters

Type	Item			Unit	Parameter
Main performance	Max. rated lifting capacity			t	250
	Minimum rated working radius			m	2.5
	Turning radius at turntable tail	At the counterweight		mm	5225
		At auxiliary winch		mm	5085
	Maximum load moment	Base boom		kN.m	6769
		Fully-extended boom		kN.m	2713
		Fully-extended boom + jib		kN.m	——
	Outrigger span	Longitudinal		m	9.19
		Lateral (fully/75% extended/half extended/25% extended）		m	7.9/6.6/5.3/4
	Lifting height	Base boom		m	14.5
		Fully-extended boom		m	75.5
		Fully-extended boom + jib		m	114.5
	Boom length	Base boom		m	14
		Fully-extended boom		m	76
		Fully-extended boom + jib		m	116
Parameters of working speed	Time for raising boom			s	≤60
	Time for fully extending the boom			s	≤650
	Max. slewing speed			r/min	1.3
	Time for extending and retracting outriggers	Outrigger beams	Retracting	s	≤40
			Extending	s	≤40
		Outrigger jacks	Retracting	s	≤60
			Extending	s	≤90
	Hoisting speed (Single line, 5th layer, no load)	Main winch system		m/min	≥130

Description of symbols

	Superstructure		Boom
	Rated lifting load		Boom length
	Counterweight		Working radius
	Turning radius at of variable-position counterweight		Boom lifting height
	Hook block		Boom angle
	Parts of line		Extension
	Telescoping code of boom sections		Independent jib head
	Wind speed		Simple boom head
	Configuration		Fixed jib
	Optional equipment		Fixed jib length
	Rope length		Fixed jib offset angle
	Wire rope diameter		Luffing jib
	Breaking force of wire rope		Max. lifting height
	Working speeds		Max. working radius
	Main winch		Super lift
	Auxiliary winch		Wind power jib

Description of symbols

	Chassis
	Outrigger span
	Tires
	Axle load
	Grade ability
	Travel speed
	EN 13000 standard

	Luffing
	Telescoping
	Slewing
	360° slewing
	360° slewing with the 5th jack down
	Operation over side and rear
	Over front work
	Operation over rear

Notes

1. This manual is for reference only, and all information is for illustration only. It should not be relied on to operate the crane. For correct crane operating instructions, please refer to the instructions.
2. The load capacity values in the tables are stated in t, which are the maximum total load capacity of the crane on a stable and even surface under the current boom length and radius, including the weight of hooks and riggings. The weight of the above devices must be subtracted during lifting operations.
3. The working radius is the horizontal gravity center distance of the load from the rotational axis of the crane superstructure measured at the ground.
4. Observe the boom angle limit. Never operate the crane with the boom angle beyond the recommended limit even if a load is not being carried.
5. A lifting operation is permissible only when the wind force is below grade 5 (instantaneous wind speed of 14.1 m/s, wind pressure of 125 N/㎡).

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