



XCT160BR Truck Crane

Technical Specifications



160 t



76 m



68 m



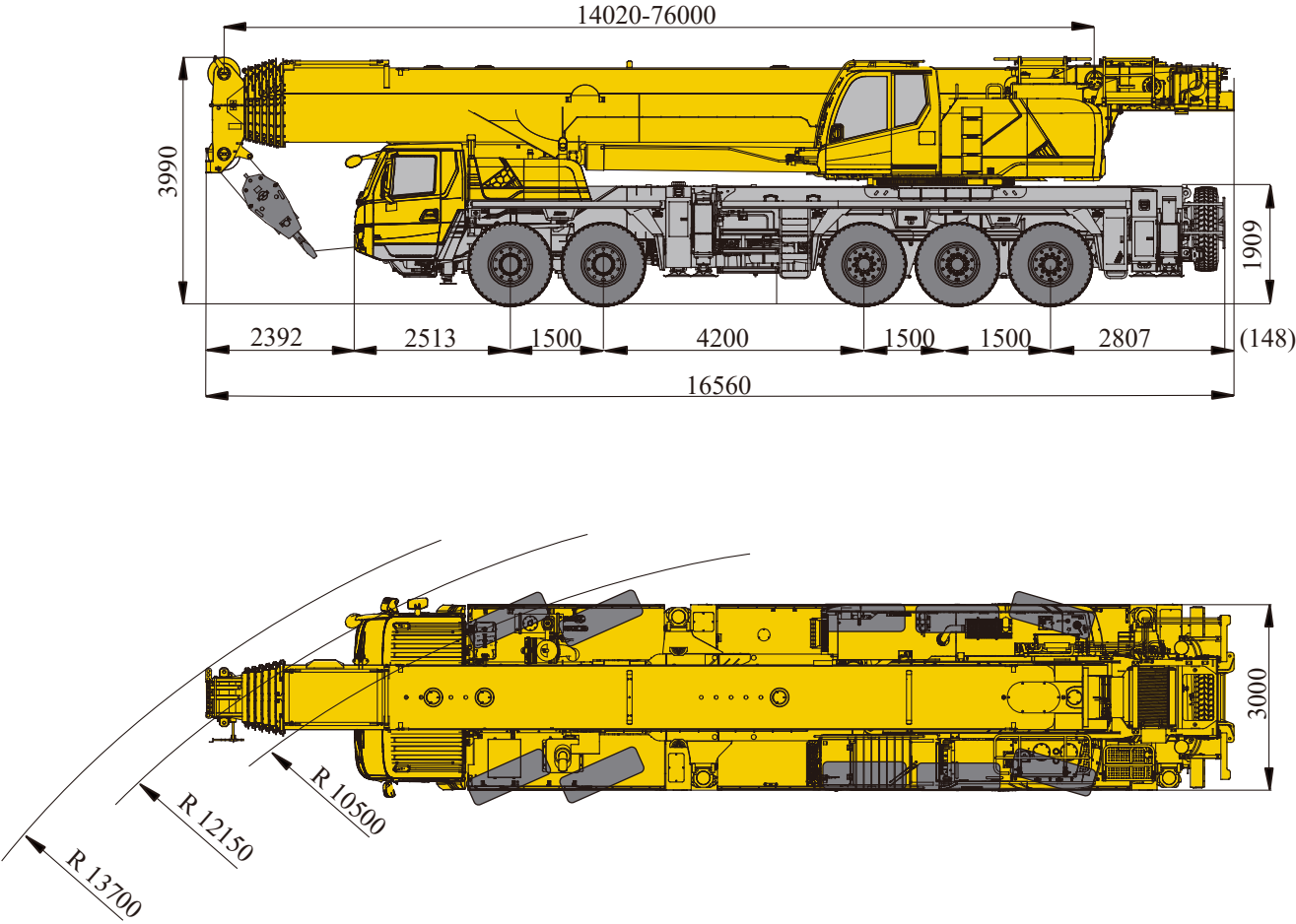
104 m



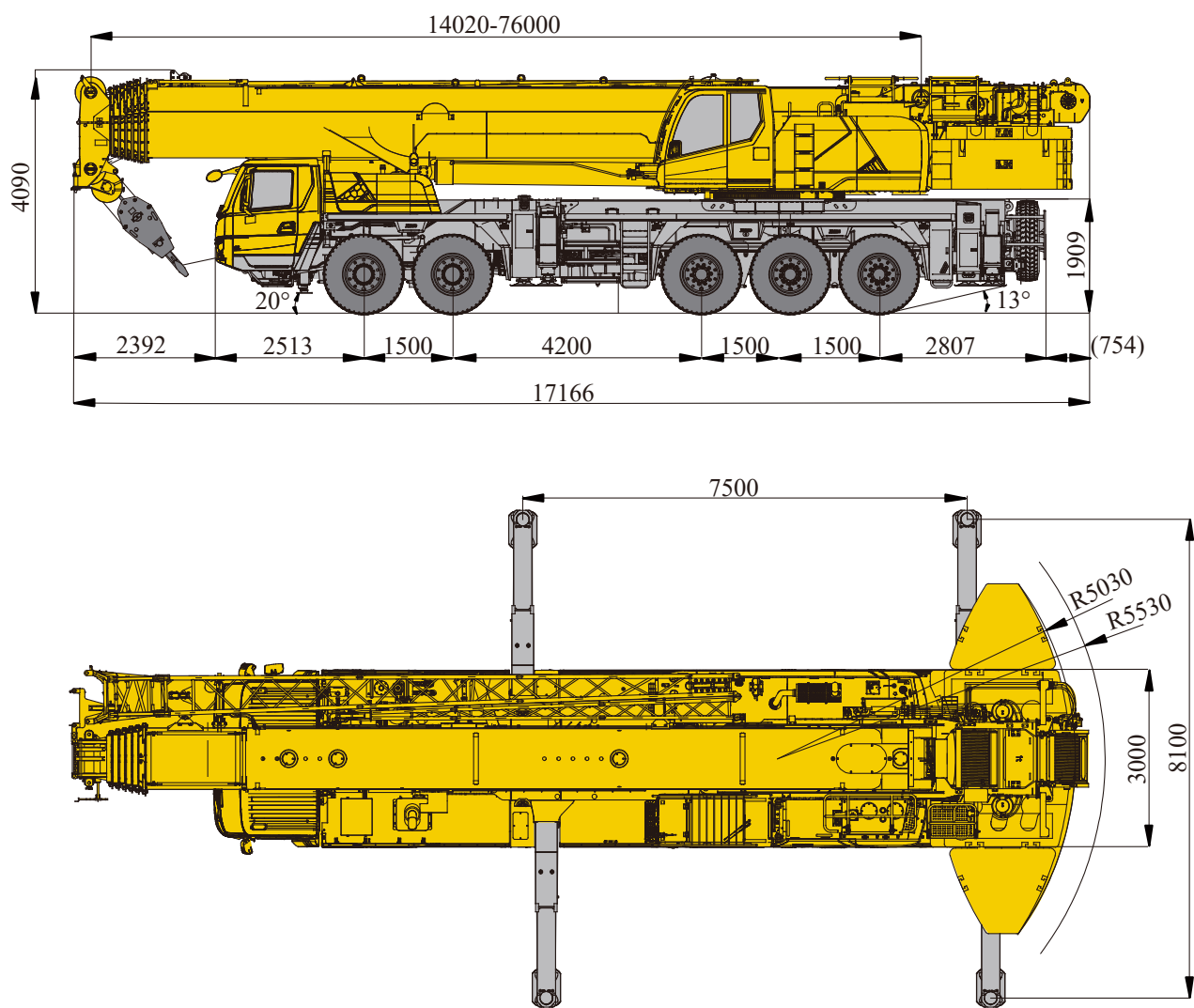
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Dimensions



Dimensions



Technical specifications



Chassis

Frame	Designed and manufactured by XCMG, the frame is made of high strength steel with fully covered deck and anti-torsion box-typed structure.
Outriggers	4 outriggers are arranged in H shape. The 2-stage outrigger beams are adopted. Longitudinal and vertical telescoping movements are hydraulic controlled. There is a check valve and a double-way hydraulic valve fitted in each jack cylinder. There is an electric control panel fitted at each side of the chassis with luminous level gauge, light and accelerator buttons. Outrigger float dimensions: 480 mm×615 mm The maximum reaction force of front outriggers is 924kN, and the maximum reaction force of rear outriggers is 989kN.
Engine	WP12G460E310, in-line, 6 cylinders, water cooled, electric control diesel engine made by Weichai. Engine displacement: 11.596 L; Engine emission standard: MAR-1 emission standard. Maximum reference torque: 2161 N.m; Rated power: 338 kW/2100 rpm; Maximum torque: 2000 Nm/1200-1600 rpm; Fuel tank capacity: 470 L.
Transmission	FAST automatic transmission with retarder brake; 12 forward gears and 2 reverse gears available.
Safety devices	ABS, outrigger pressure detection.
Axles	High-strength axles, with disc brake for axles 1-2 and drum brake for axles 3, 4 and 5. Axles 1, 2, 4, 5 for steering; axles 3, 4, 5 for driving.
Suspension	Front suspension: longitudinal leaf spring suspension, with cylindrical shock absorber. Rear suspension: double trailing arm balanced suspension.
Tires	10 tires and 1 spare tire, each axle is equipped with single tire, with large bearing capacity. Tire specifications: 385/95R25.
Braking system	Service brake: dual-circuit air pressure brake, acting on all wheels. Parking brake: spring-loaded brake, acting on the wheels of axles 2-5. Auxiliary brake: engine exhaust brake, transmission retarder brake, safe and reliable, and will prolong the service life of brake lining.
Steering	Axles 1, 2, 4 and 5 are steerable. Axles 1-2 adopt mechanical and hydraulic power steering; axles 4-5 adopt electro-hydraulically controlled steering. It can adapt to requirements of various operation modes and realize multiple steering modes.
Driver's cab	The new full-width heavy-duty steel cab is equipped with electric lifting glass, electrically adjustable rearview mirrors, standard steering wheel, mechanically suspended driver's seat, double co-driver seat that can be unfolded into a simple sleeper, and heating and cooling air conditioning, etc. Excellent sealing performance; super-large internal space; super-wide field of view; super-abundant storage space; plentiful configuration; delicate process; high intelligence; comfortable operation.
Electrical system	DC 24 V, two batteries in series.

Technical specifications



Superstructure

Structure	Designed and manufactured by XCMG, made of high strength steel.
Hydraulic system	The electric-controlled load-sensing variable pump applies to lifting, luffing and telescoping. Slewing is driven by a closed-loop pump. An electric proportional controlled multi-way valve is equipped, and the high-power air-cooled hydraulic oil cooler can effectively lower the system oil temperature. Hydraulic tank capacity: 1040 L.
Control system	Pilot electro-hydraulic proportional control, stepless speed regulation. All movements of the crane are controlled by 2 levers at left and right sides and virtual buttons on the display screen.
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 counterbalance valve and a Lebus grooved drum equipped.
Slewing system	Single-row four-point ball contact external tooth slewing bearing is driven by hydraulic motor, with built-in planetary gear reducer and constant-closed brake equipped, and may continuously slew 360°. Power control and free slewing function as well as stepless speed regulation are available.
Engine	WP7G300E300, in line six-cylinder, water cooled, high pressure common rail, diesel engine, manufactured by Weichai. Compliant with off-road Stage III emission standard. Rated power 220 kW/2300 rpm; Maximum torque: 1200 Nm/1200-1500 rpm; Fuel tank capacity: approx. 330 L.
Operator's cab	New steel operator's cab tiltable up to 20°. Spacious interiors, expansive field of view, and abundant storage space. All-round view safety glass with an openable windshield. Push-pull sliding door, protective grilles and pull-out side step are equipped. Dual-motor wipers are fitted for the front and roof windows. A 2.5 L washer tank is equipped. Stylish interior design; fire extinguisher; sun screens for front, rear and side windows; dual-layer sun screen for the roof window. Leather-covered adjustable seat with mechanical damping and seat heating function. Dual LED interior lights and an electric fan are equipped. Equipped with HMI control panel, 10-inch display, armrest box, and suspended electronic foot accelerator. Equipped with air conditioning (cooling & heating).
Safety devices	Hydraulic counterbalance valve, hydraulic relief valve, double-way hydraulic lock, LMI, length sensor, angle sensor, lowering limiter for preventing wire rope from over-releasing, anti-two block at boom head for preventing wire rope from over-winding and tri-colored light bar, backup camera and ABS.
Electrical system	DC 24 V, two 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 self-diagnosis function are available.
Counter-weight	53 t in total, variable position of 0.5 m. 12 counterweight combinations in total.
Hook block	75 t hook block, 8 t hook block.
Wireless remote control device	The wireless remote control is standard, which can control the engine, counterweight cylinder, slewing, and jib folding/unfolding operations.

Technical specifications



Superstructure

Boom

7-section 76 m single-cylinder pinning boom, tubular welded structure with "U"-shaped section. Two-cylinder pin telescoping cylinder is adopted. A new-type cylinder pin synchronous driving mechanism is adopted to guarantee the synchronism of the two cylinder pins. The single-cylinder pinning telescoping system is safer and more reliable. 46%, 92% and fully-extended modes are available for selection.

Boom length: 14 m~76 m.

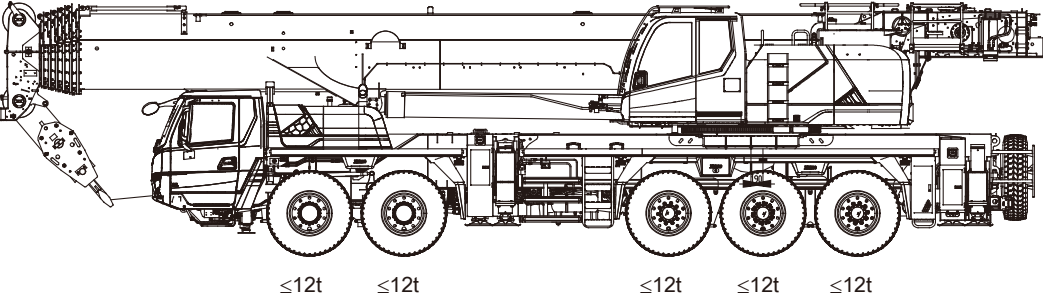
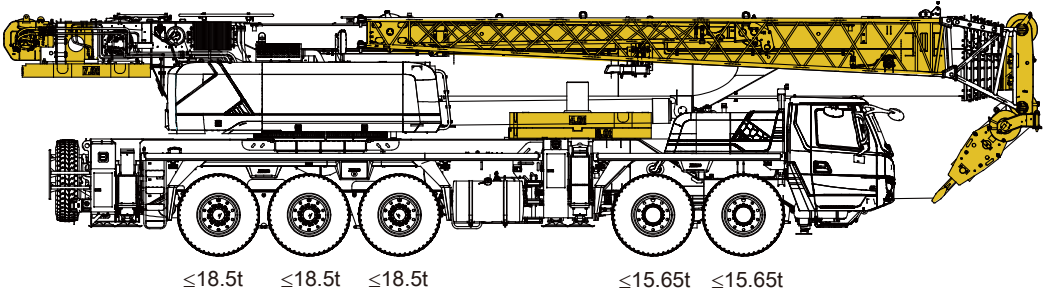
Other items of equipment available on request.

Configuration and optional equipment

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

 Optional equipment	Component description
Hook block	35 t hook block.
	130 t hook block.
Data recorder	Monitor and record various parameters during crane operation.
Monitoring system assembly	Including winch monitoring device, counterweight attachment monitoring device and boom head monitoring device.
Auxiliary 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 counterbalance valve and a Lebus grooved drum equipped.

Weights

1) 60t: road travel configuration Superstructure: 130 t hook block, 35 t hook block, 8 t hook block, counterweight, auxiliary sheave, jib and its bracket, and auxiliary winch (with wire rope) are excluded. Chassis: all configurations.			
			60t
			90km/h
			75t
2) 86.8t: heavy-load jobsite transfer Superstructure: based on the 60 t travel configuration, 24 t counterweight (8 t is carried on the tail of turntable and 16 t on the front of the frame), jib, auxiliary sheave and auxiliary winch system are carried. Chassis: all configurations.			
			86.8t
			24t
			20km/h
			75t

Weights

	Hook block	Parts of line	Weight (kg)	Dimensions (mm)	Notes
	8t	1	370	782×475×475	Single-hook
	35t	3	700	1524×599×351	Single-hook
	75t	7	800	1760×600×420	Dual-hook
	130t	13	1200	1785×730×560	Dual-hook

Working speeds

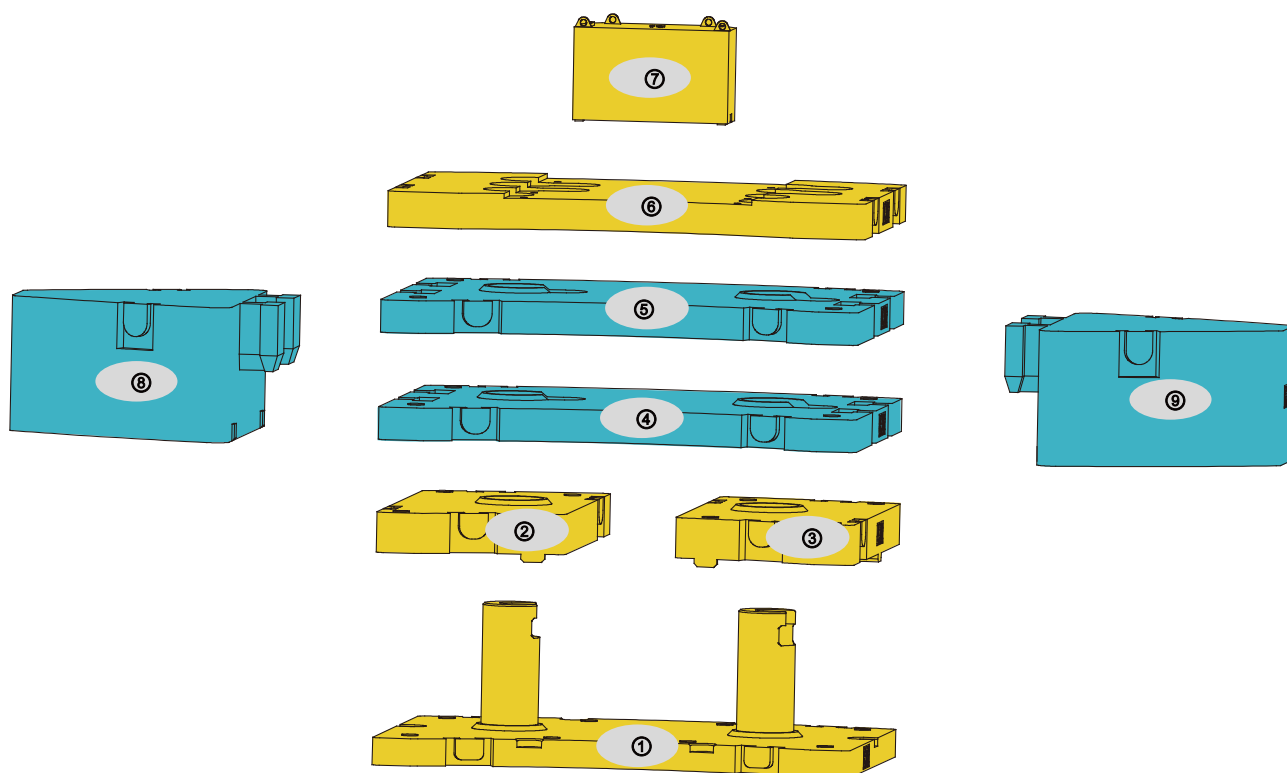


385/95R25	90km/h	45%
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	0-135 m/min, single line, no load	113.7kN	22 mm	300 m
	0-135 m/min, single line, no load	68.6kN	22 mm	240 m
	0-1.5 r/min			
	Approx. 65 s for boom luffing from -0.5° to 82.5°			
	Approx. 680 s for boom extending from 14 m to 76 m			

Counterweight



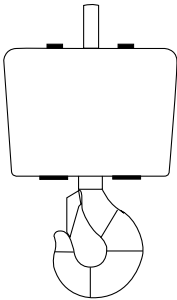
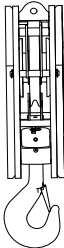
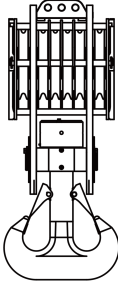
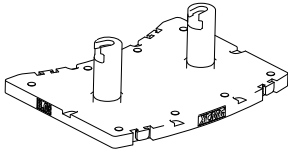
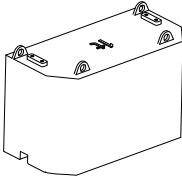
	①	②	③	④	⑤	⑥	⑦	⑧	⑨
Dimensions (L×W×H) (mm)	2990×23- 60×950	2346×115- 3×330	2346×115- 3×330	2990×23- 60×232	2990×23- 60×232	2990×21- 22×222	969×47- 0×644	1783×170- 0×839	1783×170- 0×839
Weight (t)	8	4	4	8	8	7	1	6.5	6.5

Opera tion modes	53t	40t	33t	32t	25t	24t
Combina- tions	①+②+③+④- +⑤+⑥+⑦+⑧- +⑨	①+②+③+④- +⑤+⑥+⑦	①+②+③+④- +⑤+⑦	①+②+③+④- +⑥+⑦ or ①+②+③+⑤- +⑥+⑦ or ①+④+⑤+⑥+⑦	①+②+③+④+⑦ or ①+②+③+⑤+⑦ or ①+④+⑤+⑦	①+②+③+⑥+⑦ or ①+④+⑥+⑦ or ①+⑤+⑥+⑦
Opera tion modes	17t	16t	9t	8t	1t	0t
Combina- tions	①+②+③+⑦ or ①+④+⑦ or ①+⑤+⑦	①+⑥+⑦	①+⑦	① or ⑥+⑦	⑦	—

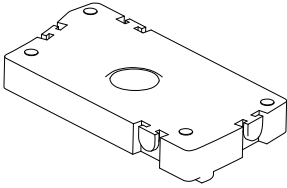
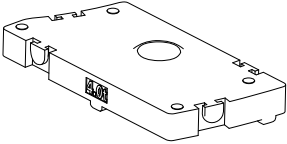
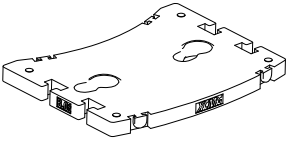
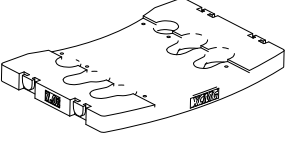
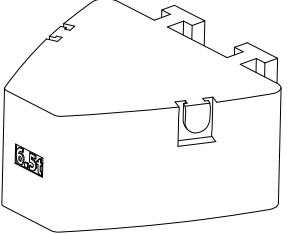
Counterweight

Note: the yellow counterweight slabs can be carried for off-road travel configuration, while blue slabs cannot be carried for off-road travel configuration.

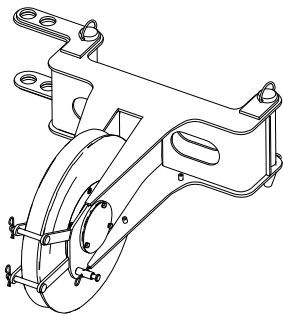
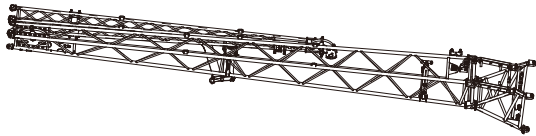
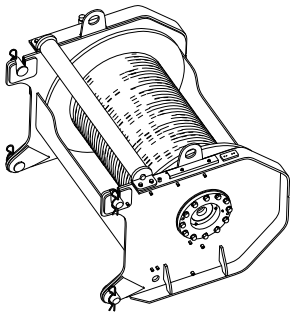
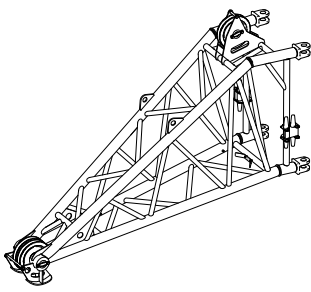
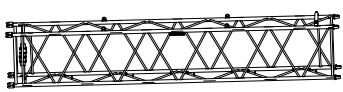
Dimensions of parts to be transported

Name	Illustration	Single weight (kg)	Qty	Dimensions (mm)
8 t hook block		370	1	475×475×782
35 t hook block		700	1	1524×599×351
130 t hook block		1200	1	1785×730×560
Counterweight slab ①		8000	1	2990×2360×935
Fixed counterweight slab ⑦		1000	1	969×644×470

Dimensions of parts to be transported

Name	Illustration	Single weight (kg)	Qty	Dimensions (mm)
Counterweight slab ②		4000	1	2346×1153×330
Counterweight slab ③		4000	1	2346×1153×330
Counterweight slab ④/⑤		8000	2	2990×2360×232
Counterweight slab ⑥		7000	1	2990×2122×222
Side counterweight slab ⑧/⑨		6500	2	1783×1700×839

Dimensions of parts to be transported

Name	Illustration	Single weight (kg)	Qty	Dimensions (mm)
Auxiliary sheave		83	1	860×865×520
Fixed jib (bracket included)		1335	1	11100×990×1720
Auxiliary winch (wire rope included)		1408	1	1287×764×756
Independent jib head		460	1	3170×2395×995
Extension		530	2	8090×910×1500

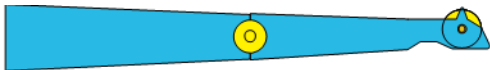
Boom/jib combinations

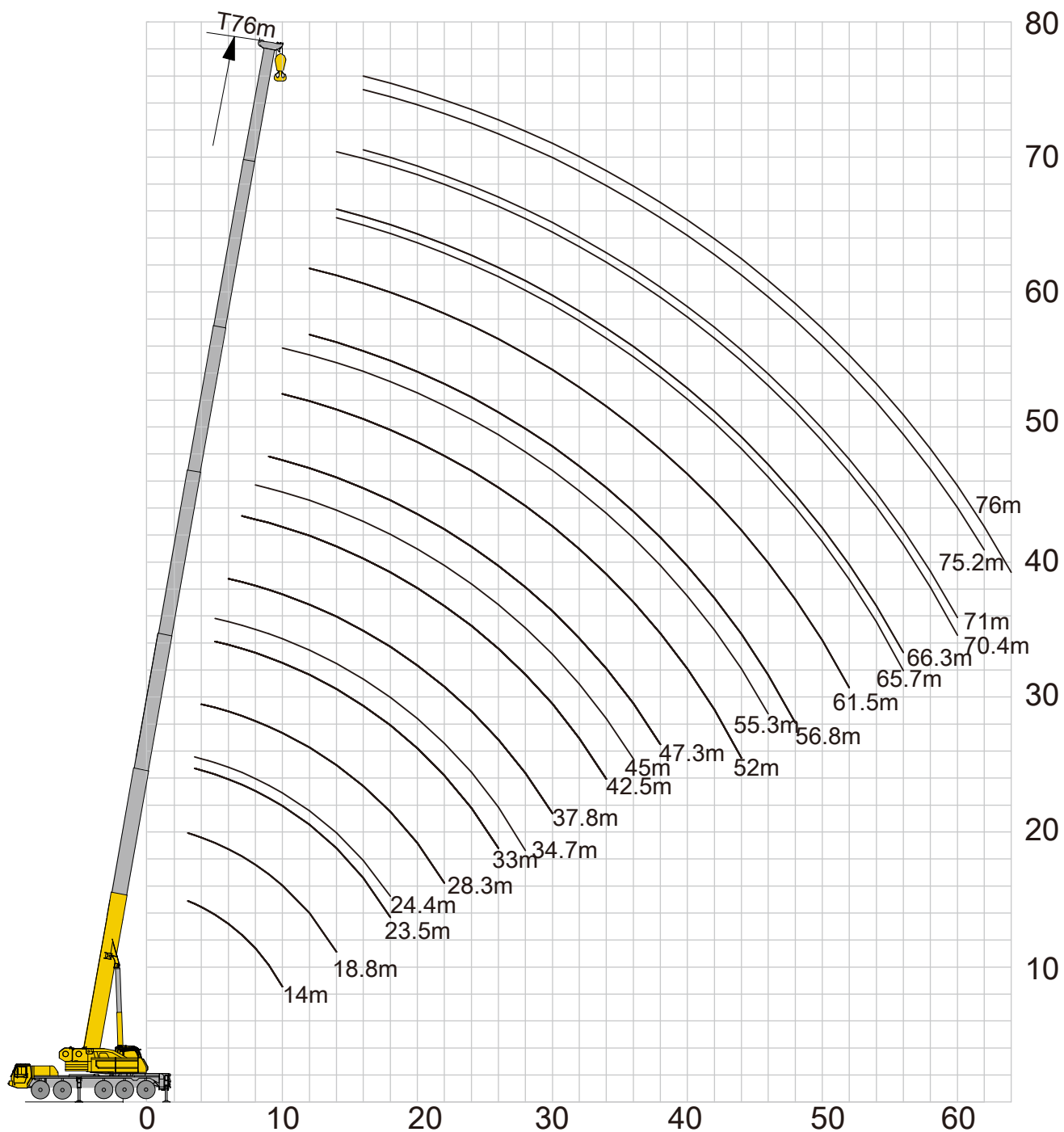


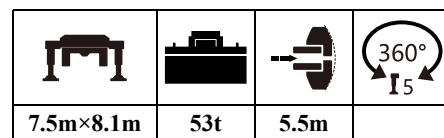
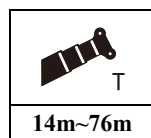
Boom	Boom + jib	Boom extension	Independent jib head
T: 14~76 m	T: 61.5~76 m	T: 61.5~71 m	T: 61.5~76 m

Boom/jib combinations

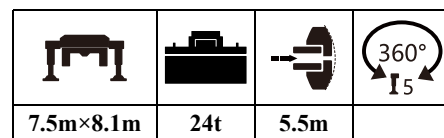
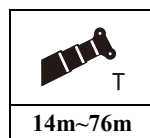
Components	Structure type
1st jib section	
2nd jib section	
Boom extension	

Components	Structure type
Jib – 10.5 m	
Jib – 17.5 m	
Boom extension + jib – 25.5 m	
Boom extension + jib – 33.5 m	

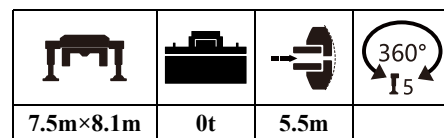
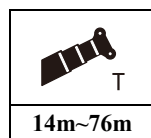




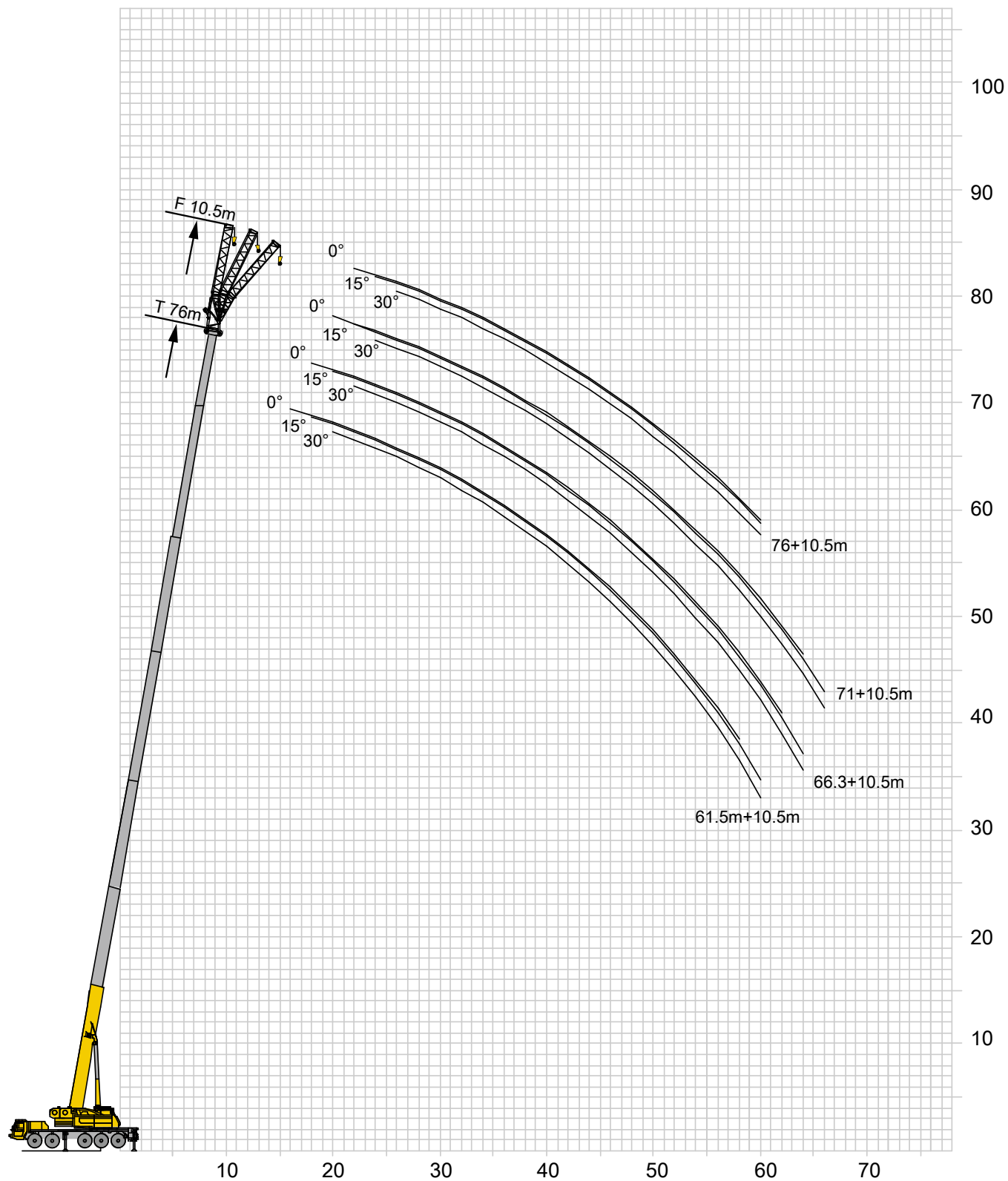
	14	18.8	23.5	24.4	28.3	33	34.7	37.8	42.5	45	47.3	52	55.3	56.8	61.5	65.7	66.3	70.4	71	75.2	76	
2.5	160.0*																					2.5
3	130.0	116.0																				3
3.5	125.0	111.0	98.2	45.7																		3.5
4	120.0	106.0	98.0	42.4	87.5																	4
4.5	109.0	102.0	98.0	40.2	87.5																	4.5
5	100.0	96.5	94.0	38.0	85.0	76.8	32.3															5
6	87.5	85.5	85.0	34.2	80.5	76.8	28.8	66.3														6
7	75.3	75.0	75.0	31.0	75.0	72.0	26.5	62.6	55.5													7
8	64.3	64.0	65.0	28.2	64.8	65.0	24.3	57.5	55.5	21.8												8
9	56.0	56.0	56.6	26.6	58.2	58.0	22.7	54.0	54.7	19.9	43.1											9
10	50.0	52.1	52.0	24.8	52.0	52.0	20.9	50.0	51.6	18.7	41.1	32.0	17.4									10
12		43.6	43.4	21.3	43.8	44.0	18.1	44.6	45.8	16.9	33.8	29.3	16.0	25.2	19.8							12
14		36.4	36.7	18.8	37.0	36.7	16.0	38.0	40.0	15.3	30.7	27.1	15.0	22.8	19.8	13.5	15.6	12.1				14
16			31.2	17.4	31.5	32.6	14.4	33.2	32.6	13.8	28.0	23.8	13.7	21.3	18.8	13.0	15.6	12.1	12.4	10.0	9.4	16
18			27.0	15.3	27.2	28.2	13.2	27.8	27.2	12.3	25.3	21.7	12.5	19.6	17.8	11.9	15.0	11.5	12.4	10.0	9.4	18
20					24.1	24.0	12.0	23.7	23.1	11.1	22.5	20.5	11.7	18.1	16.7	11.2	14.3	11.0	12.0	10.0	9.4	20
22					20.9	20.8	10.7	20.5	19.9	10.2	19.7	18.3	11.0	16.9	15.5	10.9	13.4	10.5	11.3	9.9	9.2	22
24						18.2	9.7	17.9	17.4	9.5	18.0	16.7	10.3	15.7	14.3	10.5	12.3	10.0	10.7	9.2	9.0	24
26						16.1	9.0	15.7	15.8	8.8	15.8	14.9	9.6	14.4	12.9	9.8	11.5	9.8	10.4	8.7	8.6	26
28							8.5	13.9	14.6	8.0	14.0	13.3	8.8	12.9	12.0	9.0	10.8	9.1	9.9	8.4	8.1	28
30								13.0	13.0	7.2	12.5	11.8	8.1	11.6	11.0	8.5	10.1	8.4	9.5	8.1	8.0	30
32									11.7	7.0	11.2	10.9	7.8	10.7	10.3	7.8	9.4	8.2	8.7	7.9	7.7	32
34									10.6	6.3	10.2	10.4	7.1	9.6	9.4	7.5	8.6	7.5	8.3	7.4	7.5	34
36										6.1	9.2	9.4	7.0	8.6	8.7	6.9	8.0	7.2	7.5	6.7	6.8	36
38											8.7	8.5	6.4	7.8	8.0	6.6	7.6	6.6	7.1	6.7	6.6	38
40												7.7	6.1	7.5	7.4	6.2	7.0	6.5	6.5	6.0	5.8	40
42												7.1	5.8	6.9	7.1	5.9	6.7	5.8	6.3	5.8	5.6	42
44												6.5	5.6	6.5	6.5	5.5	6.3	5.8	5.6	5.4	5.4	44
46													5.2	6.0	5.9	5.3	5.7	5.6	5.3	4.9	4.9	46
48														5.6	5.5	4.9	5.2	5.1	4.8	4.8	4.7	48
50															5.0	4.6	4.7	4.7	4.3	4.4	4.3	50
52															4.6	4.4	4.3	4.3	3.9	4.0	3.8	52
54																4.2	3.8	3.9	3.5	3.6	3.4	54
56																3.8	3.5	3.5	3.1	3.2	3.1	56
58																		3.2	2.8	2.8	2.7	58
60																		2.9	2.4	2.5	2.4	60
62																				2.2	2.1	62
64																					1.8	64



	14	18.8	23.5	24.4	28.3	33	34.7	37.8	42.5	45	47.3	52	55.3	56.8	61.5	65.7	66.3	70.4	71	75.2	76	
3	130.0	116.0																				3
3.5	125.0	111.0	98.2	45.7																		3.5
4	116.2	106.0	98.0	42.4	87.5																	4
4.5	103.4	102.0	98.0	40.2	87.5																	4.5
5	92.5	94.0	93.9	38.0	85.0	76.8	32.3															5
6	75.8	77.2	77.1	34.2	78.1	76.8	28.8	66.3														6
7	63.8	65.2	65.9	31.0	66.0	65.8	26.5	62.6	55.5													7
8	54.7	56.1	56.8	28.2	57.0	56.7	24.3	57.2	55.5	21.8												8
9	47.7	49.1	49.7	26.6	49.9	50.8	22.7	50.4	49.9	19.9	43.1											9
10	40.6	42.6	43.5	24.8	43.7	45.0	20.9	44.5	43.8	18.7	41.1	32.0	17.4									10
12		31.5	32.7	21.3	33.2	33.1	18.1	32.7	32.0	16.9	31.8	29.3	16.0	25.2	19.8							12
14		24.2	25.3	18.8	25.8	25.7	16.0	25.6	25.4	15.3	25.5	24.6	15.0	22.8	19.8	13.5	15.6	12.1				14
16			20.3	17.4	20.7	20.7	14.4	21.4	21.0	13.8	20.6	19.6	13.7	19.7	18.8	13.0	15.6	12.1	12.4	10.0	9.4	16
18			16.7	15.3	17.1	17.9	13.2	17.8	17.4	12.3	17.0	17.1	12.5	16.2	15.8	11.9	15.0	11.5	12.4	10.0	9.4	18
20					14.8	15.1	12.0	15.0	14.6	11.1	14.9	14.5	11.7	14.2	13.8	11.2	13.4	11.0	12.0	10.0	9.4	20
22					12.7	12.9	10.7	12.8	13.1	10.2	12.7	12.3	11.0	12.3	12.3	10.9	11.6	10.5	11.3	9.9	9.2	22
24						11.1	9.7	11.0	11.3	9.5	11.0	11.1	10.3	11.0	10.7	10.5	10.3	10.0	9.9	9.2	9.0	24
26						9.7	9.0	10.0	9.9	8.8	9.8	9.8	9.6	9.5	9.2	9.3	8.9	8.9	8.5	8.6	8.4	26
28							8.5	8.8	8.7	8.0	8.7	8.5	8.6	8.3	8.0	8.1	7.7	7.7	7.3	7.4	7.2	28
30								7.8	7.7	7.2	7.7	7.5	7.6	7.3	7.0	7.0	6.6	6.7	6.3	6.3	6.2	30
32									6.8	6.9	6.8	6.6	6.7	6.4	6.1	6.2	5.8	5.8	5.4	5.5	5.3	32
34									6.1	6.2	6.0	5.8	5.9	5.6	5.3	5.4	5.0	5.0	4.6	4.7	4.6	34
36										5.5	5.4	5.1	5.2	4.9	4.6	4.7	4.3	4.4	3.9	4.0	3.9	36
38											4.7	4.5	4.6	4.3	4.0	4.1	3.7	3.8	3.3	3.4	3.3	38
40												4.0	4.1	3.8	3.5	3.6	3.2	3.2	2.8	2.9	2.8	40
42													3.5	3.6	3.3	3.0	3.1	2.7	2.8	2.3	2.4	42
44														3.1	3.2	2.9	2.6	2.7	2.3	1.9	2.0	44
46															2.8	2.5	2.2	2.3	1.9	1.5	1.6	46
48																2.2	1.9	1.9	1.5	1.6	1.2	48
50																	1.5	1.6	1.2	1.3		50
52																		1.2	1.3			52
54																			1.0			54



	14	18.8	23.5	24.4	28.3	33	34.7	37.8	42.5	45	47.3	52	55.3	56.8	61.5	65.7	66.3	70.4	71	75.2	76	
3	130.0	116.0																				3
3.5	112.4	111.0	98.2	45.7																		3.5
4	97.5	99.0	98.0	42.4	87.5																	4
4.5	85.8	87.3	87.5	40.2	87.5																	4.5
5	76.5	77.9	78.7	38.0	78.8	76.8	32.3															5
6	52.6	55.1	57.6	34.2	58.2	58.2	28.8	57.6														6
7	36.1	38.7	40.2	31.0	40.7	40.6	26.5	40.5	40.2													7
8	26.7	29.1	30.3	28.2	30.8	31.8	24.3	31.6	31.2	21.8												8
9	20.7	22.9	24.4	24.2	25.1	25.4	22.7	25.2	25.6	19.9	25.2											9
10	16.5	18.6	20.0	19.8	20.6	21.0	20.9	21.3	21.1	18.7	20.7	20.2	17.4									10
12		12.7	14.2	14.0	14.8	15.1	15.3	15.4	15.4	15.4	15.3	15.1	15.2	14.9	14.6							12
14		9.0	10.3	10.2	11.0	11.3	11.4	11.5	11.4	11.6	11.4	11.2	11.3	11.0	10.7	10.8	10.3	10.4				14
16			7.8	7.6	8.4	8.6	8.8	8.9	8.9	9.0	8.8	8.6	8.7	8.4	8.2	8.2	7.8	7.8	7.4	7.5	7.4	16
18			6.0	5.8	6.6	6.8	7.0	7.0	7.0	7.1	7.0	6.8	6.9	6.6	6.3	6.4	6.0	6.1	5.7	5.8	5.6	18
20					5.2	5.4	5.5	5.7	5.6	5.8	5.6	5.4	5.5	5.2	5.0	5.0	4.6	4.7	4.3	4.4	4.2	20
22					4.2	4.4	4.5	4.6	4.6	4.6	4.5	4.3	4.4	4.2	3.9	3.9	3.6	3.6	3.3	3.4	3.2	22
24						3.5	3.6	3.7	3.7	3.8	3.7	3.5	3.5	3.3	3.0	3.1	2.7	2.8	2.4	2.5	2.4	24
26						2.8	2.9	3.0	3.0	3.0	3.0	2.8	2.9	2.6	2.3	2.4	2.1	2.1	1.8	1.8	1.7	26
28							2.3	2.4	2.4	2.5	2.4	2.2	2.2	2.0	1.8	1.8	1.4	1.5	1.2	1.3	1.1	28
30								1.9	1.9	2.0	1.8	1.7	1.8	1.5	1.3	1.4	1.0	1.0				30
32									1.4	1.5	1.4	1.3	1.4	1.1								32
34									1.1	1.2	1.0		1.0									34



		
61.5m~76m	10.5m	0°

			
7.5m×8.1m	53t	5.5m	

	61.5	66.3	71	76	
16	7.0				16
18	7.0	7.0			18
20	7.0	7.0	6.2		20
22	7.0	7.0	6.2	4.5	22
24	7.0	7.0	6.2	4.5	24
26	7.0	7.0	6.2	4.5	26
28	7.0	7.0	6.2	4.5	28
30	7.0	7.0	6.2	4.5	30
32	7.0	6.4	6.0	4.5	32
34	6.4	5.8	5.3	4.5	34
36	6.0	5.4	4.9	4.4	36
38	5.5	5.0	4.5	4.0	38
40	4.9	4.6	4.2	3.6	40
42	4.7	4.1	3.8	3.4	42
44	4.3	3.7	3.6	2.9	44
46	3.8	3.5	3.2	2.8	46
48	3.6	3.1	3.0	2.6	48
50	3.4	2.9	2.8	2.2	50
52	3.0	2.7	2.5	2.0	52
54	2.8	2.4	2.3	1.9	54
56	2.6	2.2	2.2	1.7	56
58	2.2	2.0	1.9	1.6	58
60		1.9	1.7	1.4	60
62		1.7	1.5		62
64			1.4		64

		
T	F	
61.5m~76m	10.5m	15°

			
			360° I5
7.5m×8.1m	53t	5.5m	

	61.5	66.3	71	76	
18	6.2				18
20	6.0	5.8			20
22	5.7	5.6	5.4		22
24	5.6	5.5	5.3	4.4	24
26	5.3	5.2	5.1	4.4	26
28	5.0	5.1	5.0	4.4	28
30	4.9	5.0	4.7	4.4	30
32	4.7	4.8	4.6	4.4	32
34	4.5	4.6	4.5	4.4	34
36	4.3	4.4	4.5	4.3	36
38	4.2	4.3	4.4	4.0	38
40	4.0	4.1	4.1	3.6	40
42	3.9	4.0	3.8	3.4	42
44	3.7	3.7	3.5	3.0	44
46	3.6	3.5	3.2	2.8	46
48	3.6	3.2	3.1	2.7	48
50	3.4	3.0	2.7	2.4	50
52	3.0	2.6	2.5	2.2	52
54	2.8	2.5	2.3	1.9	54
56	2.6	2.3	2.2	1.8	56
58	2.4	2.2	2.0	1.6	58
60	2.1	1.9	1.8	1.4	60
62		1.7	1.7		62
64		1.5	1.5		64
66			1.3		66

		
61.5m~76m	10.5m	30°

			
7.5m×8.1m	53t	5.5m	

	61.5	66.3	71	76	
20	3.3				20
22	3.1	3.2			22
24	3.1	3.1	3.1		24
26	3.0	3.1	3.1	3.1	26
28	2.9	2.9	3.0	3.1	28
30	2.9	2.9	2.9	3.0	30
32	2.8	2.8	2.9	3.0	32
34	2.8	2.8	2.8	2.9	34
36	2.6	2.7	2.8	2.8	36
38	2.6	2.6	2.6	2.8	38
40	2.5	2.6	2.6	2.7	40
42	2.5	2.5	2.5	2.6	42
44	2.5	2.5	2.5	2.5	44
46	2.3	2.4	2.5	2.5	46
48	2.3	2.4	2.5	2.5	48
50	2.3	2.4	2.4	2.4	50
52	2.3	2.3	2.3	2.2	52
54	2.3	2.3	2.3	2.0	54
56	2.2	2.3	2.2	1.8	56
58	2.2	2.1	2.0	1.6	58
60	2.2	1.9	1.8	1.4	60
62		1.7	1.6		62
64		1.5	1.5		64
66			1.3		66

		
61.5m~76m	10.5m	0°

			
7.5m×8.1m	24t	5.5m	

[illegible]

		
61.5m~76m	10.5m	15°

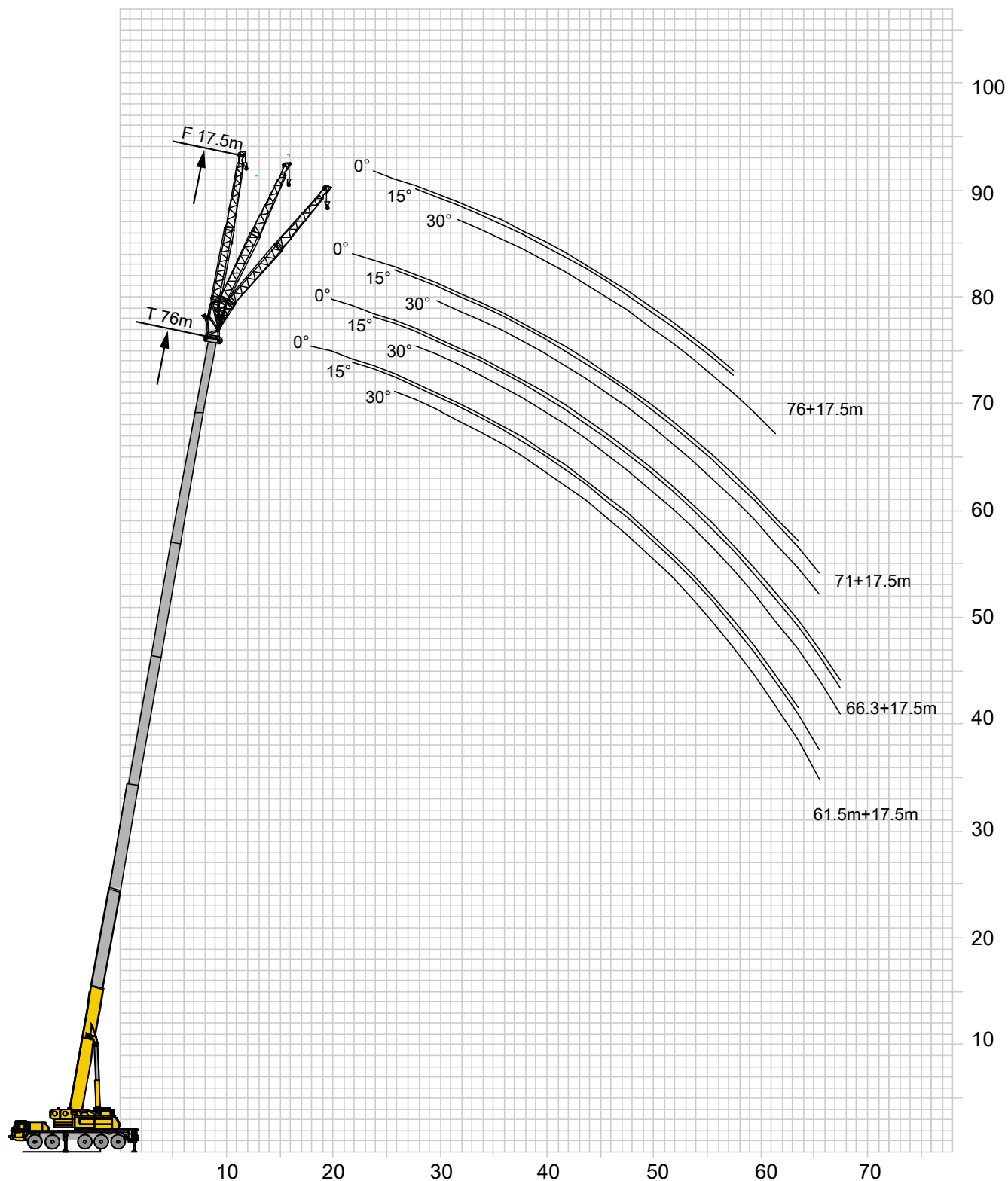
			
7.5m×8.1m	24t	5.5m	

[illegible]

		
61.5m~76m	10.5m	30°

			
7.5m×8.1m	24t	5.5m	

[illegible]



		
61.5m~76m	17.5m	0°

			
7.5m×8.1m	53t	5.5m	

	61.5	66.3	71	76	
18	4.9				18
20	4.8	4.5			20
22	4.6	4.4	3.7		22
24	4.4	4.2	3.6	3.6	24
26	4.3	4.1	3.5	3.6	26
28	4.1	4.0	3.4	3.6	28
30	4.0	3.9	3.3	3.5	30
32	3.9	3.7	3.2	3.5	32
34	3.7	3.6	3.1	3.4	34
36	3.6	3.6	3.0	3.3	36
38	3.4	3.5	3.0	3.3	38
40	3.4	3.3	3.0	3.2	40
42	3.3	3.3	3.0	3.2	42
44	3.2	3.2	3.0	2.9	44
46	3.1	3.1	2.9	2.8	46
48	3.0	3.0	2.8	2.5	48
50	3.0	2.8	2.7	2.3	50
52	2.9	2.6	2.5	2.0	52
54	2.7	2.4	2.3	1.8	54
56	2.5	2.2	2.0	1.7	56
58	2.3	2.0	1.8	1.5	58
60	2.2	1.9	1.7		60
62	2.0	1.7	1.5		62
64	1.8	1.5	1.3		64
66		1.3			66
68		1.2			68

		
T	F	
61.5m~76m	17.5m	15°

			
			360° I5
7.5m×8.1m	53t	5.5m	

	61.5	66.3	71	76	
22	3.5				22
24	3.3	3.2			24
26	3.2	3.1	3.1		26
28	3.0	3.1	3.0	3.0	28
30	3.0	3.0	2.9	2.8	30
32	2.9	2.8	2.8	2.7	32
34	2.8	2.8	2.8	2.7	34
36	2.7	2.7	2.7	2.6	36
38	2.6	2.6	2.7	2.5	38
40	2.5	2.5	2.5	2.5	40
42	2.5	2.5	2.5	2.5	42
44	2.4	2.5	2.4	2.4	44
46	2.4	2.4	2.4	2.4	46
48	2.2	2.3	2.4	2.4	48
50	2.2	2.2	2.3	2.2	50
52	2.2	2.2	2.2	2.1	52
54	2.1	2.2	2.2	2.0	54
56	2.1	2.2	2.1	1.8	56
58	2.0	2.1	1.9	1.6	58
60	2.0	1.9	1.7		60
62	2.0	1.8	1.6		62
64	1.8	1.6	1.4		64
66	1.6	1.4	1.4		66
68		1.2			68

		
61.5m~76m	17.5m	30°

			
7.5m×8.1m	53t	5.5m	

[illegible]

		
61.5m~76m	17.5m	0°

			
7.5m×8.1m	24t	5.5m	

[illegible]

		
61.5m~76m	17.5m	15°

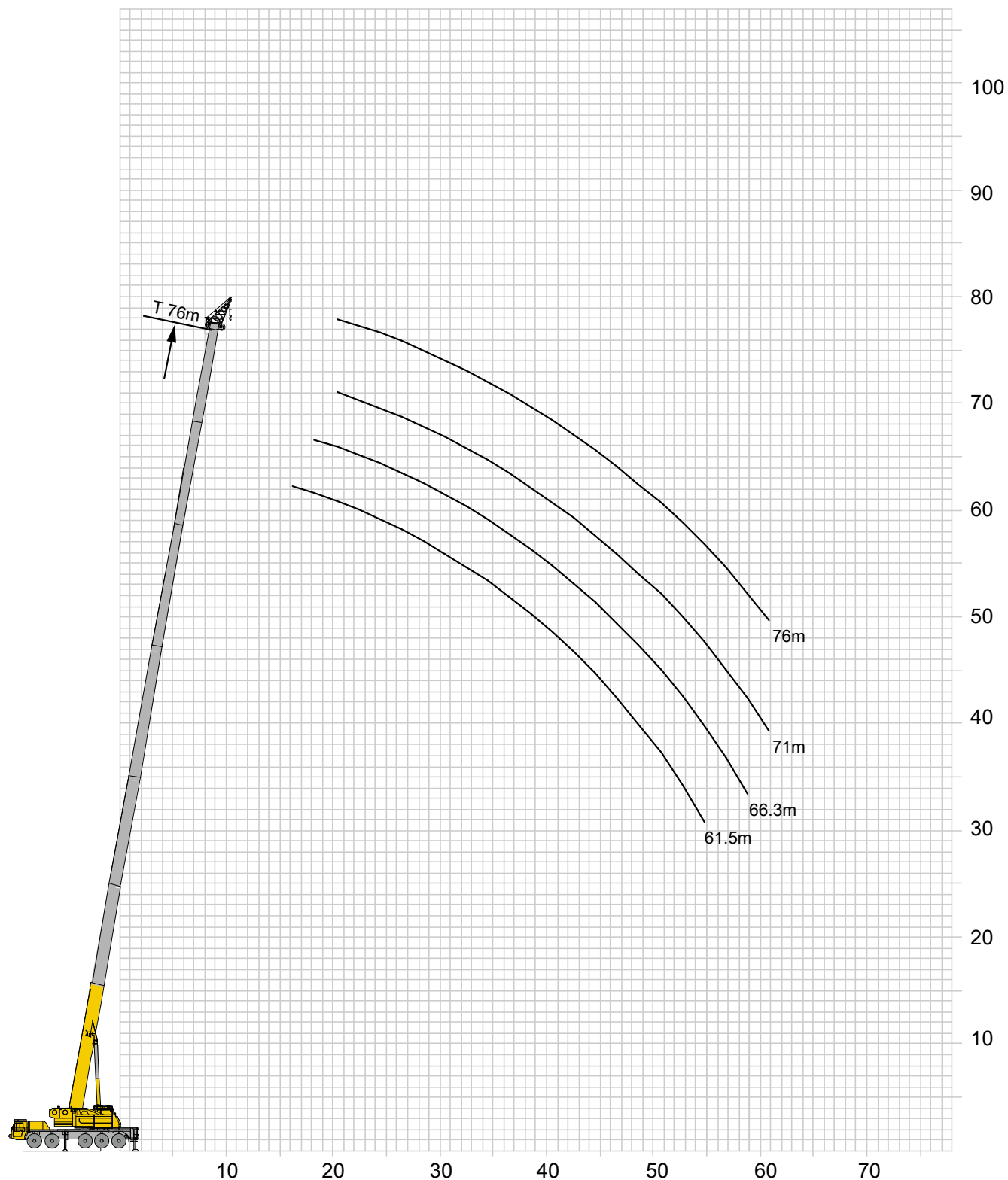
			
7.5m×8.1m	24t	5.5m	

[illegible]

		
61.5m~76m	17.5m	30°

			
7.5m×8.1m	24t	5.5m	

[illegible]



	
61.5m~76m	2.9m

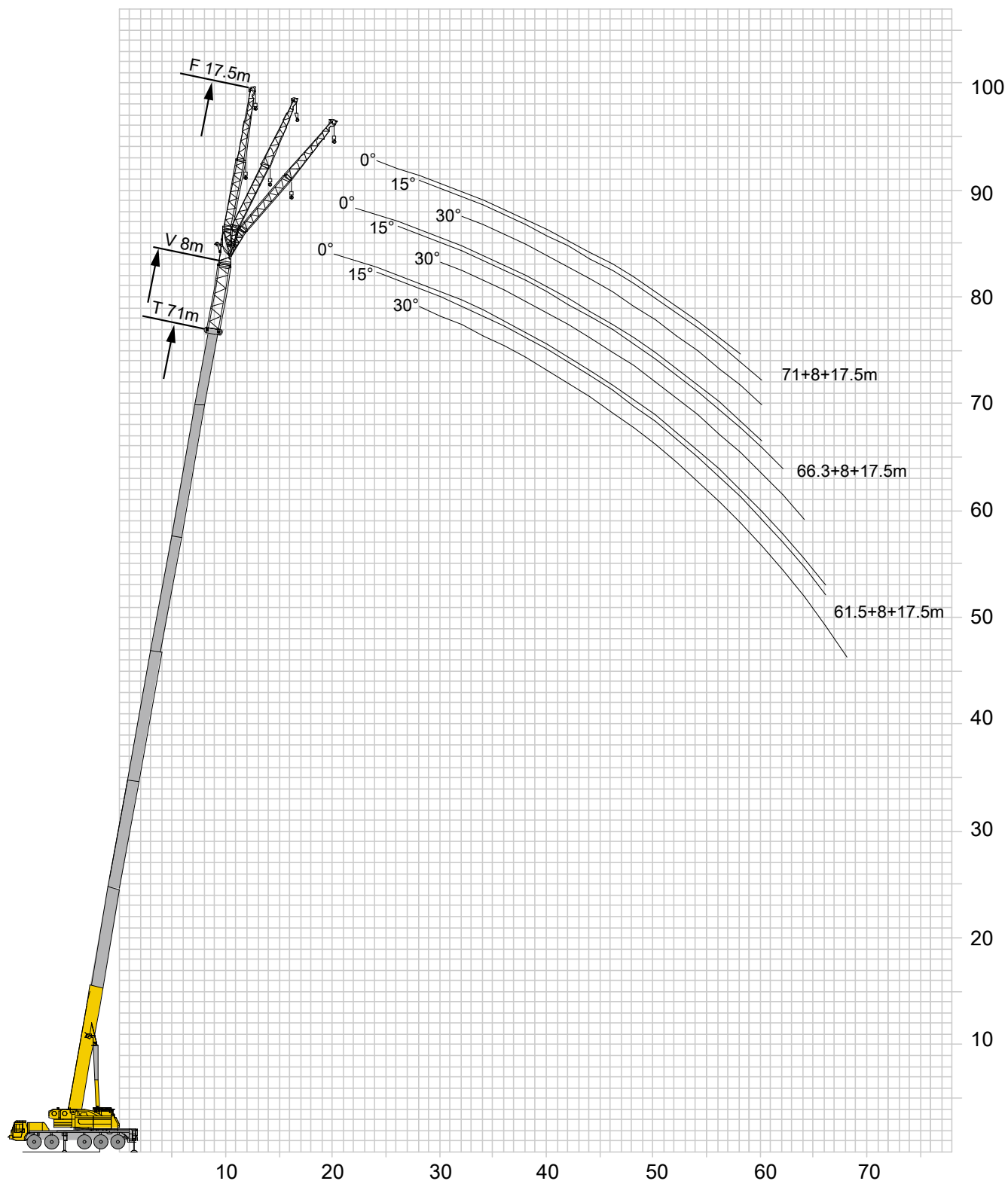
			
7.5m×8.1m	53t	5.5m	360° I5

	61.5	66.3	71	76	
16	13.6				16
18	13.6	10.5			18
20	13.1	10.5	7.9	5.7	20
22	12.0	10.5	7.9	5.7	22
24	10.8	9.9	7.9	5.7	24
26	9.9	9.0	7.9	5.7	26
28	9.1	8.1	7.5	5.7	28
30	8.3	7.4	6.8	5.7	30
32	7.6	6.7	6.4	5.7	32
34	6.9	6.1	5.7	5.1	34
36	6.2	5.7	5.3	4.7	36
38	5.7	5.3	4.9	4.4	38
40	5.3	4.9	4.5	4.0	40
42	4.9	4.4	4.3	3.5	42
44	4.5	4.0	3.8	3.3	44
46	4.1	3.7	3.5	2.9	46
48	3.8	3.4	3.2	2.7	48
50	3.5	3.2	2.9	2.6	50
52	3.0	2.7	2.7	2.3	52
54	2.7	2.6	2.6	2.1	54
56		2.4	2.3	1.9	56
58		2.2	2.1	1.6	58
60			1.9	1.5	60

	
61.5m~76m	2.9m

			
7.5m×8.1m	24t	5.5m	

[illegible]



			
61.5m~71m	8m	17.5m	0°

			
7.5m×8.1m	53t	5.5m	360° I5

	61.5	66.3	71	
20	4.5			20
22	4.2	4.1		22
24	4.1	4.0	3.6	24
26	4.0	3.8	3.6	26
28	3.9	3.7	3.5	28
30	3.9	3.7	3.5	30
32	3.8	3.6	3.4	32
34	3.6	3.5	3.4	34
36	3.5	3.4	3.3	36
38	3.5	3.4	3.2	38
40	3.4	3.3	3.2	40
42	3.3	3.3	3.1	42
44	3.3	3.2	3.0	44
46	3.1	3.1	2.8	46
48	3.0	2.8	2.5	48
50	3.0	2.5	2.3	50
52	2.6	2.2	2.2	52
54	2.4	2.1	1.9	54
56	2.3	1.9	1.7	56
58	2.1	1.7	1.5	58
60	1.9	1.6		60
62	1.8			62
64	1.6			64
66	1.4			66

			
T	V	F	15°
61.5m~71m	8m	17.5m	

			
7.5m×8.1m	53t	5.5m	360° I5

	61.5	66.3	71	
24	3.4			24
26	3.2	3.2		26
28	3.2	3.1	2.9	28
30	3.0	2.9	2.8	30
32	2.9	2.8	2.8	32
34	2.9	2.8	2.7	34
36	2.8	2.7	2.6	36
38	2.7	2.7	2.6	38
40	2.7	2.6	2.5	40
42	2.6	2.5	2.5	42
44	2.5	2.5	2.5	44
46	2.4	2.4	2.4	46
48	2.4	2.4	2.3	48
50	2.3	2.3	2.3	50
52	2.3	2.3	2.2	52
54	2.3	2.2	2.0	54
56	2.2	2.0	1.8	56
58	2.1	1.9	1.7	58
60	2.0	1.7	1.5	60
62	1.8	1.5		62
64	1.6			64
66	1.4			66

			
T	V	F	
61.5m~71m	8m	17.5m	30°

			
			360° I5
7.5m×8.1m	53t	5.5m	

	61.5	66.3	71	
28	1.6			28
30	1.6	1.6		30
32	1.6	1.6	1.7	32
34	1.6	1.6	1.5	34
36	1.6	1.5	1.5	36
38	1.6	1.6	1.5	38
40	1.5	1.5	1.4	40
42	1.4	1.5	1.4	42
44	1.4	1.4	1.4	44
46	1.4	1.3	1.4	46
48	1.3	1.3	1.4	48
50	1.3	1.3	1.4	50
52	1.3	1.3	1.4	52
54	1.2	1.2	1.2	54
56	1.2	1.2	1.2	56
58	1.2	1.2	1.2	58
60	1.2	1.2	1.2	60
62	1.2	1.2		62
64	1.2	1.2		64
66	1.2			66
68	1.2			68

			
7.5m×8.1m	24t	5.5m	

XCMG——XCT160BR

Load charts

TFV counterweight in the rear position

			
61.5m~71m	8m	17.5m	15°

			
7.5m×8.1m	24t	5.5m	

[illegible]

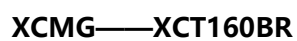
Load charts

TFV counterweight in the rear position

			
61.5m~71m	8m	17.5m	30°

			
7.5m×8.1m	24t	5.5m	

[illegible]



			
61.5m~71m	16m	17.5m	0°

			
7.5m×8.1m	53t	5.5m	360° I5

	61.5	66.3	71	
20	4.0			20
22	3.9	3.3		22
24	3.7	3.3	2.2	24
26	3.6	3.3	2.2	26
28	3.5	3.2	2.2	28
30	3.5	3.2	2.2	30
32	3.4	3.1	2.2	32
34	3.3	3.0	2.2	34
36	3.2	3.0	2.2	36
38	3.2	2.9	2.2	38
40	3.0	2.9	2.2	40
42	3.0	2.8	2.2	42
44	2.9	2.7	2.2	44
46	2.9	2.6	2.2	46
48	2.8	2.5	2.2	48
50	2.6	2.3	2.0	50
52	2.5	2.1	1.8	52
54	2.2	1.9		54
56	2.0	1.7		56
58	1.9			58
60	1.7			60
62	1.5			62

			
61.5m~71m	16m	17.5m	15°

			
7.5m×8.1m	53t	5.5m	360° I5

	61.5	66.3	71	
28	3.0			28
30	2.9	2.9		30
32	2.9	2.8	2.2	32
34	2.8	2.8	2.2	34
36	2.7	2.6	2.2	36
38	2.7	2.6	2.2	38
40	2.6	2.5	2.2	40
42	2.5	2.5	2.2	42
44	2.5	2.5	2.2	44
46	2.5	2.4	2.2	46
48	2.4	2.3	2.2	48
50	2.3	2.3	2.2	50
52	2.4	2.2	2.2	52
54	2.3	1.9	2.2	54
56	2.1	1.7		56
58	1.9			58
60	1.8			60
62	1.6			62

			
7.5m×8.1m	53t	5.5m	

[illegible]

Load charts

TFV counterweight in the rear position

			
61.5m~71m	16m	17.5m	0°

			
7.5m×8.1m	24t	5.5m	

[illegible]

			
7.5m×8.1m	24t	5.5m	

XCMG——XCT160BR

			
7.5m×8.1m	24t	5.5m	

[illegible]

Main technical parameters

Category	Item		Unit	Parameters	
Dimensions	Dimensions (L×W×H)		mm	16560×3000×3990	
	Axle spacing		mm	1500+4200+1500+1500	
	Track (front/rear)		mm	2562	
	Front/rear overhang		mm	2513/2807	
	Front/rear extension		mm	2392/148	
Weights	Maximum permissible total weight		kg	60000	
	Axle load (60t)	Axle 1	kg	12000	
		Axle 2	kg	12000	
		Axle 3	kg	12000	
		Axle 4	kg	12000	
		Axle 5	kg	12000	
	Axle load (87 t)	Axle 1	kg	15650	
		Axle 2	kg	15650	
		Axle 3	kg	18500	
		Axle 4	kg	18500	
		Axle 5	kg	18500	
Power	Engine model		—	(Chassis) WP12G460E310	(Superstructure) WP7G300E300
	Rated power/rpm		kW/(rpm)	338/2100	220/2300
	Maximum output torque/rpm		N.m/(rpm)	2000/(1200-1600)	1200/(1200-1500)
Travel	Maximum travel speed		km/h	90	
	Minimum stable travel speed		km/h	2.5–3	
	Minimum turning diameter		m	21	
	Minimum turning diameter at boom tip		m	27.4	
	Minimum ground clearance		mm	315	
	Approach angle		°	20	
	Departure angle		°	13	
	Braking distance (initial speed at 30 km/h)		m	≤10	
	Maximum grade ability		%	45	
	Fuel consumption per 100 km		L	50	

Main technical parameters

Category	Item			Unit	Parameters
Main performance	Maximum rated lifting capacity			t	160
	Minimum rated working radius			m	2.5
	Slewing radius at turntable tail	At the counterweight		mm	Front 5030/rear 5530
	Maximum load moment	Base boom		kN·m	5165
		Fully-extended boom		kN·m	2495
		Fully-extended boom + jib		kN·m	1299
	Outrigger span	Longitudinal		m	7.5
		Lateral		m	8.1
	Lifting height	Base boom		m	14.9
		Fully-extended boom		m	76
		Fully-extended boom + jib		m	104
	Boom length	Base boom		m	14
		Fully-extended boom		m	76
		Fully-extended boom + jib		m	104.5
Jib offset angle			°	0, 15, 30	
Working speeds	Time for raising boom			s	≤65
	Time for fully extending the boom			s	≤680
	Maximum slewing speed			r/min	1.5
	Time for extending/ retracting outriggers	Outrig- ger beams	Retract- ing	s	≤40
			Extend- ing	s	≤40
		Outrig- ger jacks	Retract- ing	s	≤60
			Extend- ing	s	≤60
	Lifting speed (single line, no load)	Main winch system		m/min	≥135
		Auxiliary winch system		m/min	≥90

Description of symbols

	Superstructure
	Rated lifting load
	Counterweight
	Slewing radius of variable-position counterweight
	Hook block
	Parts of line
	Boom length combination
	Wind speed
	Configuration
	Optional equipment
	Wire rope length
	Wire rope diameter
	Maximum single line pull
	Maximum working speed
	Main winch
	Auxiliary winch

	Boom
	Boom length
	Boom working radius
	Lifting height with boom
	Boom angle
	Extension
	Independent jib head
	Simple jib head
	Fixed jib
	Fixed jib length
	Fixed jib offset angle
	Luffing jib
	Maximum lifting height
	Maximum working radius
	Super lift
	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
	Side and rear slewing
	Luffing winch

OM code description

Operation mode code	Description
T	Boom OM
TF	Boom+jib OM
TFV	Boom+extension+jib OM
TI	Boom+independent jib head OM
TY	Boom+super lift OM
TYF	Boom+super lift+jib OM
TYFV	Boom+extension+super lift+jib OM
TYN	Boom+super lift+luffing jib OM
TYW	Boom+super lift+wind power jib OM