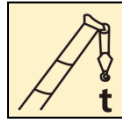
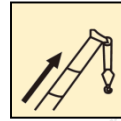


XCT110_Y Truck Crane

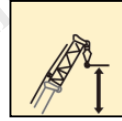
Technical specifications



110 t



60.5 m



85 m

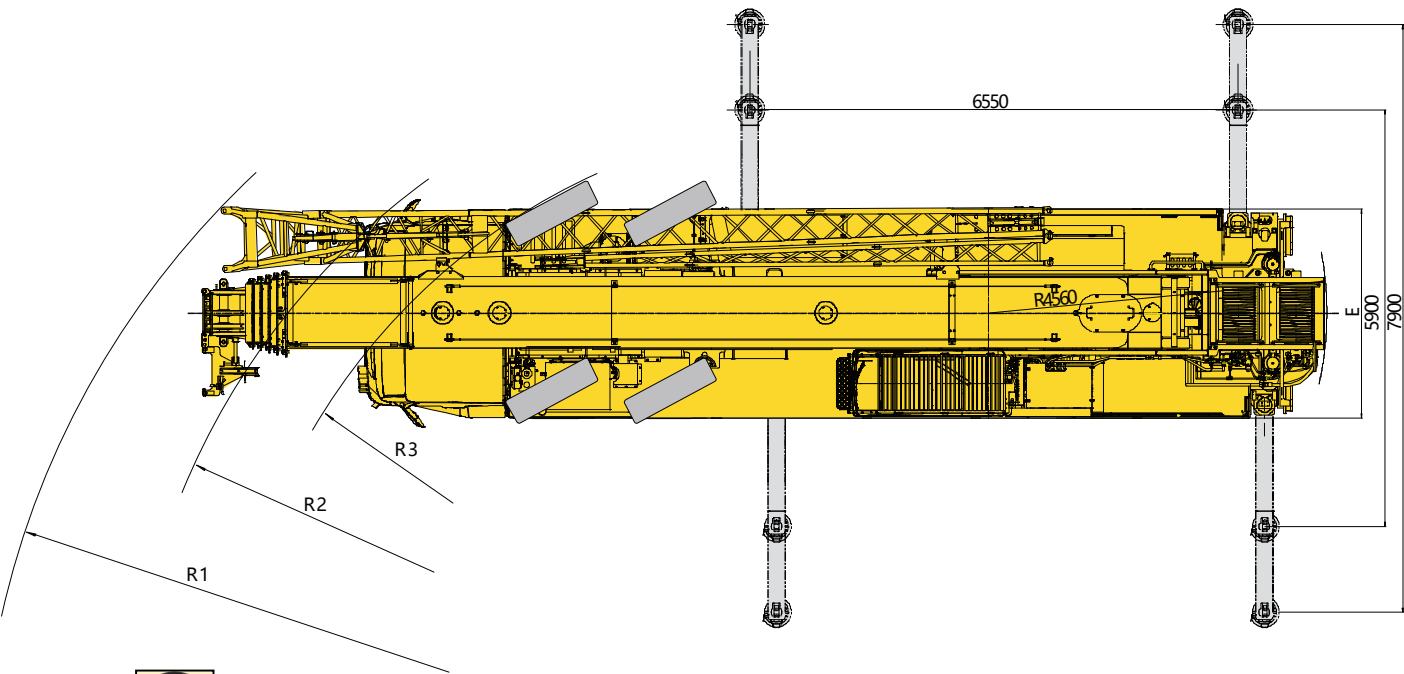
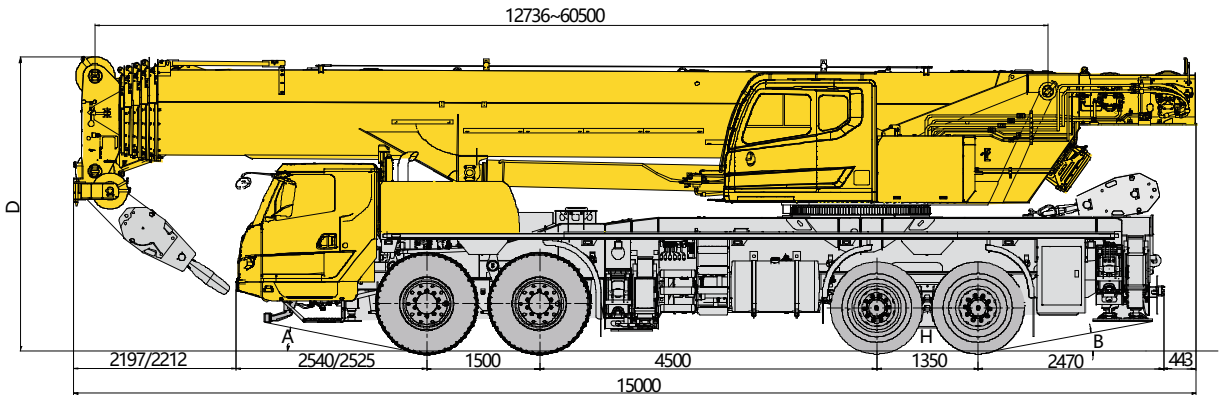


4th edition, November 2024

Contents

Dimensions	5
Technical specifications	6-7
Configuration	8
Weight	9
Working speed	10
Counterweight	11
Dimensions of parts to be transported	12
Boom / Jib combinations	13-14
Boom	15-25
Jib	26-30
Description of symbols	31
Table of main technical parameters	32-33
Notes	34

Dimensions



	A	B	D	E	R1	R2	R3	H
385/95 R25 (front) 12.00R24, 325/95R24 (Rear axle)	11°/18° (Front protective device removed)	11°	3927	2800	15100	13500	12000	290

Notes: When the crane is equipped with Qixing driver's cab, the front extension is 2197 mm, and the front overhang is 2540 mm. When the crane is equipped with XCMG Automobile driver's cab, the front extension is 2212 mm, and the front overhang is 2525 mm.

Technical specifications



Chassis

Frame	Designed and manufactured by XCMG, the frame is made of high strength steel with fully covered walking surface and anti-torsion box-typed structure.
Outrigger	Four outriggers arranged in H-shape are hydraulically controlled by control levers. Double-stage outrigger beams are adopted. There are outrigger control levers located at each side of the chassis, and there is a level gauge, LED illuminator and speed buttons in each control panel. There is a check valve fitted in each outrigger cylinder, and a double-way hydraulic lock fitted in each jack cylinder. Outrigger float diameter: \varnothing 450 mm. Reaction force of outrigger at max. lifting load: 780 kN.
Engine	WP10H375E50, in-line, 6-cylinder, water cooled, electric-control diesel engine manufactured by Weichai, with rated power of 276 kW / 1900 rpm and max. torque of 1800 Nm / 1000-1400 rpm; Max. reference torque: 2067 N.m; Compliant with Euro V emission standard; Fuel tank capacity: 470 L; AdBlue/DEF tank capacity: 35 L.
Transmission	Mechanical transmission, made by Shaanxi Fast Gear Co., Ltd., 10-forward speed and 2-reverse speed, with a synchronizer.
Axle	High strength axles, made by famous manufacturers. 1st and 2nd axles are for steering, and 3rd and 4th axles are for driving.
Suspension	Leaf springs are adopted for front suspensions; rubber suspensions are adopted for rear suspensions.
Tire	12 tires and 1 spare tire, 1st and 2nd axles are equipped with single tire, 3rd and 4th axles are equipped with double-tire. Tire specifications: 385/95R25 (front axles), 12.00R24 and 325/95R24 (rear axles).

Braking system	Service brake: dual-circuit air pressure brake, acting on all wheels. Parking brake: spring-loaded brake, acting on wheels of axles 2,3 and 4. Auxiliary brake: in-cylinder retarder brake.
Steering	Axles 1 and 2 are mechanically steered + hydraulic power assistance.
Driver's cab	New enclosed cab, luxury and comfortable. It features outstanding leak-proof, anti-corrosion and shock-proof performance. It is equipped with wide-view windshield, rear-view mirror, electric wiper-washer, electric window glass lifter, air heater with defrosting function, audio system and new material mat. The co-driver's double seat can be unfolded into a simple sleeper. A fire extinguisher of 2 kg is available. HVAC is standard.
Electrical system	24 V DC, two sets of 12 V battery in series. Generator: 28 V-80 A

Technical specifications



Superstructure

Structure	Designed and manufactured by XCMG, made of high strength steel.
Hydraulic system	Electric proportional variable pump is used for lifting, luffing and telescoping operations. A closed pump is used to drive slewing operation. The proportional solenoid directional control valve and air-cooled hydraulic oil cooler are also equipped. Hydraulic oil tank capacity: 822 L.
Operating method	The electric proportional control system is equipped with two levers at left and right sides controlling the main movements of the crane, and stepless slewing speed regulation is available.
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 counterbalance valve and a grooved drum equipped.
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 grooved drum equipped.
Slewing system	A single-row, four-point contact-ball external slewing bearing; the system is driven by a hydraulic motor through a planetary gear reducer with constant-closed brake equipped, and can continuously slew 360°. Power control and free slewing function as well as stepless speed regulation are available.
Luffing system	Single luffing cylinder and the luffing counterbalance valve with the load compensation function. Counterbalance valve-controlled boom gravity combined with power for lowering boom is used for boom luffing down.

Operator's cab	Steel cab with a full-view windshield, safety glass, sliding door, adjustable seat with electric heating function; it can tilt backward about 20°; double-layer sun shield is adopted for roof window; sun shield is also equipped at the windshield and rear window; wipers, roof guardrails, pull-out step, LMI, human-machine interactive control panel, electric controlled armrest, engine accelerator pedal, engine start switch, etc. are also available. Heater, air conditioner and fire extinguisher of 2 kg are standard.
Safety devices	Hydraulic counterbalance valve, hydraulic relief valve, double-way hydraulic lock, LMI, lowering limiter, anti-two block, anemometer, winch monitoring device.
Combined counterweight	Total weight is 33 t. 12 counterweight combinations for standard configuration: 33 t, 24.6 t, 19.8 t, 19.6 t, 17.6 t, 15 t, 14.8 t, 10 t, 8 t, 7 t, 2 t and 0 t.
Hook block	80 t hook block 55 t hook block 7 t hook block
Boom	6-section boom with U-shaped cross-section, welded structure with single-plate boom head and compact boom tail. Single-cylinder pinning telescoping system. Boom length: 12.7 m ~ 60.5 m.
Jib	The jib consists of a connecting bracket, an offsetting bracket and two lattice sections. Three offset angles of 0°, 15° and 30° are available. It is stowed along the side of the boom. Jib length: 10.5 m and 17.5 m.
Auxiliary sheave (single top)	Installed at the boom top, used for single line operation. Its lifting performance is the same as that for boom, but the max. lifting load could not exceed 6.5 t.

Product parts list is as mentioned above. Please refer to the product quotation for specific parts.

Configuration

Configuration	Function description
Standard	8×4 drive mode, six-section boom of 60.5 m, fixed jib of 17.5 m.

Note: only standard configuration is available for this model.

Optional equipment
Boom extension
Anti-lock braking system (ABS)
Counterweight slab F
Winch monitoring device
Electronic level gauge
Outrigger pressure detection
Reversing camera
Beacon light

Weight

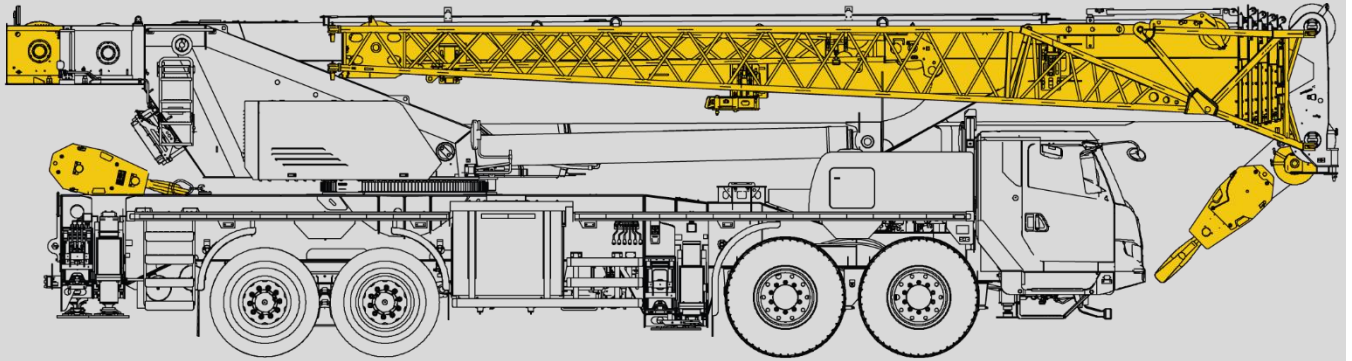


Axle	1	2	3	4	Total weight
t	12	12	12.9	12.9	49.8 ⁽¹⁾
t	15.6	15.6	21.5	21.5	74.2 ⁽²⁾

(1) 49.8 t: Travel configuration

Superstructure: With 80 t hook block, 55 t hook block, 7 t hook block, jib, auxiliary winch, auxiliary sheave; Without counterweight.

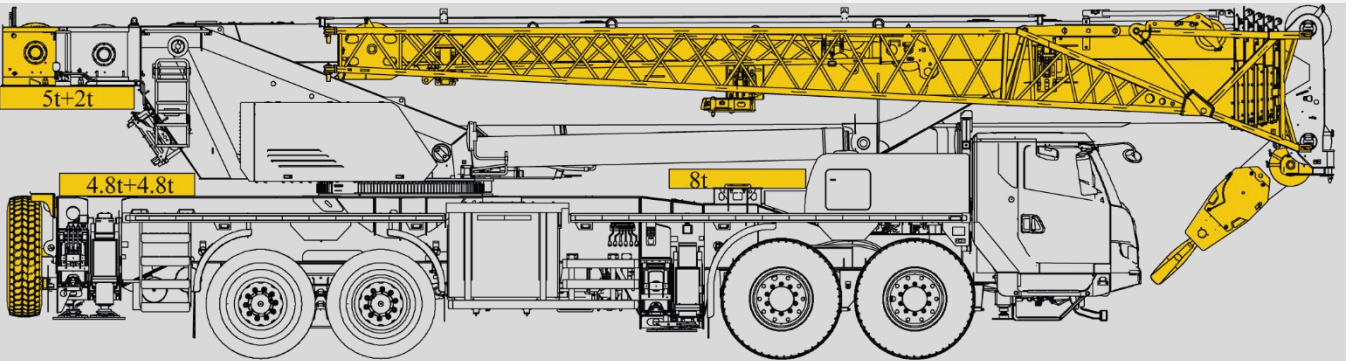
Chassis: Without spare tire & its bracket, and counterweight bracket.



(2) 74.2 t: Short-distance jobsite transfer

Superstructure: With 80 t hook block, 7 t hook block, jib, auxiliary winch, auxiliary sheave, counterweight (24.6 t); Without 55 t hook block.

Chassis: Spare tire and its bracket, counterweight bracket are included in the chassis.



Hook block	Parts of line	Weight of hook block (kg)	Hook dimension (mm)	Remark
80 t	12	700	1735×554×520	Single hook
55 t	8	470	1600×520×370	Single hook
7 t	1	210	717×370×370	Single hook

Working speed



385/95 R25 (front axles)
12.00R24, 325/95R24 (rear axles)

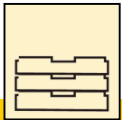
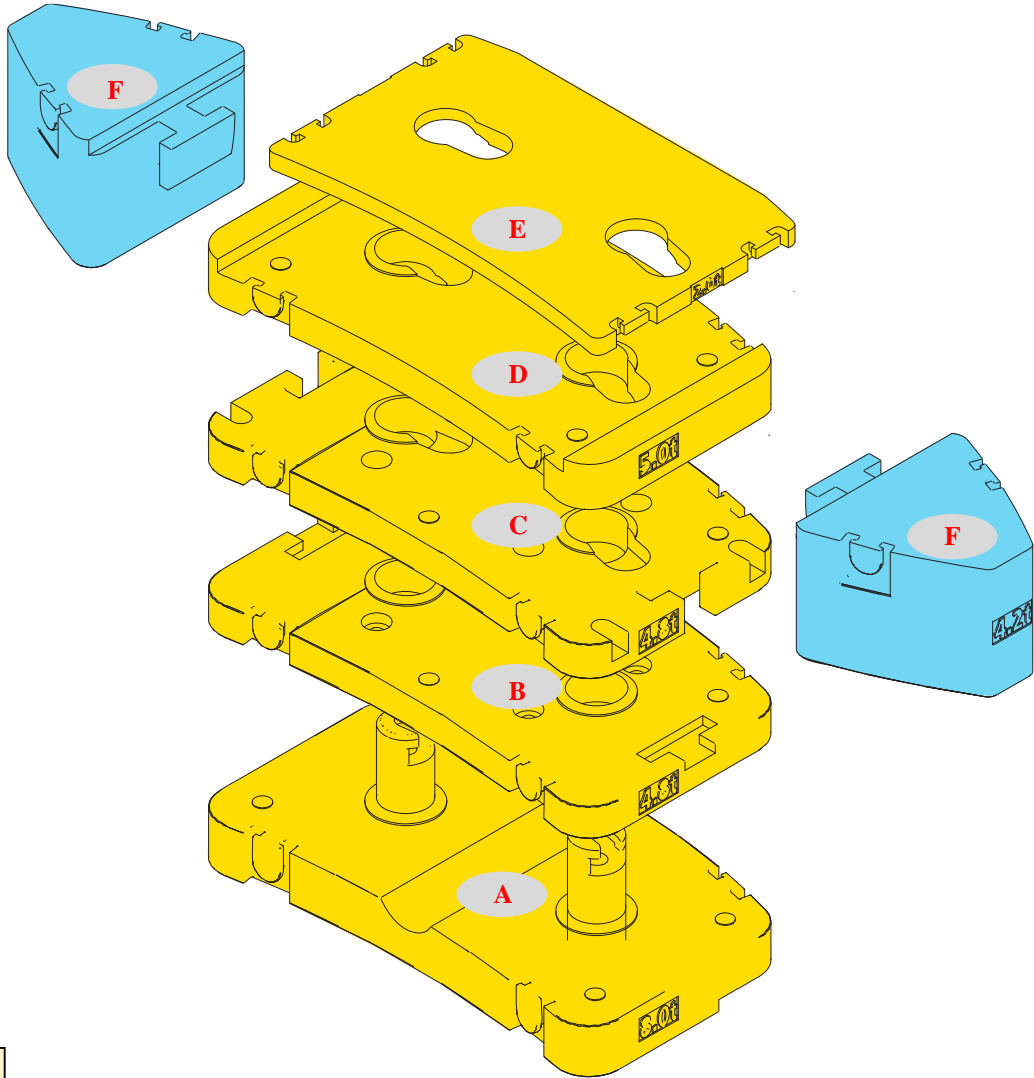
2.5 ~ 80

45%



Operation mechanism	Working speed	Max. single line pull	Rope diameter/ length
	0-145 m/min, single line, 4th layer	6.8 t	20 mm / 250 m
	0-90 m/min, single line, 4th layer	6.8 t	20 mm / 200 m
	0-2.0 r/min		
	Approx. 55 s for boom luffing up from -1° to 81°		
	Approx. 490 s for boom extending from 12.7 m to 60.5 m		

Counterweight

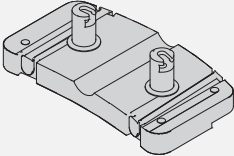
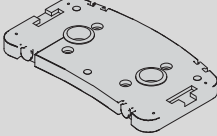
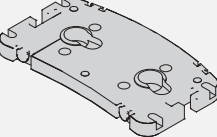
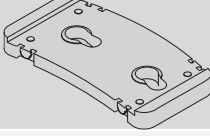

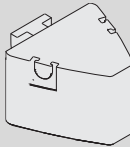
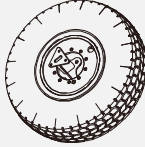
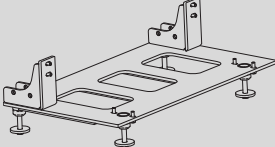
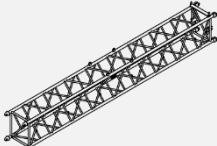


Counterweight	A	B	C	D	E	F
Dimensions (L×W×H) (mm)	2750×1536× 795	2750×1536× 223	2750×1536× 236	2750×1536× 294	2330×1428× 102	917×1010× 975
Weight (t)	8	4.8	4.8	5	2	4.2

Operation mode	33 t	24.6 t	19.8 t	19.6 t	17.6 t	15 t	14.8 t	10 t	8 t	7 t	2 t	0 t
Combinations	A+B+ C+D+ E+2F	A+B+ C+D+ E	A+C+ D+E /A+B+ D+E	A+B+ C+E	A+B+ C	A+D+ E	/A+B+ D+E	A+E	A	D+E	E	—

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

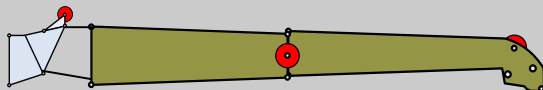
Name	Illustration	Single weight (kg)	Qty	Dimension (mm)
Counterweight slab A		8000	1	2750×1536×795
Counterweight slab B		4800	1	2750×1536×223
Counterweight slab C		4800	1	2750×1536×236
Counterweight slab D		5000	1	2750×1536×294
Counterweight slab E		2000	1	2330×1428×102
Counterweight slab F		4200	2	917×1010×975
Spare tire & its bracket		260	1	1356×1356×555
Counterweight bracket		145	1	450×800×1380
Boom extension		454	1	7090×1455×870




Boom / Jib combinations

Jib – 10.5 m



Jib – 17.5 m



Components	Structure	Dimensions (L×W×H) (mm)	Weight (kg)
Connecting bracket		2035×870×1476	215
1st jib section assembly		9340×620×900	567
2nd jib section assembly		6520×300×430	259

Boom / Jib combinations



Boom

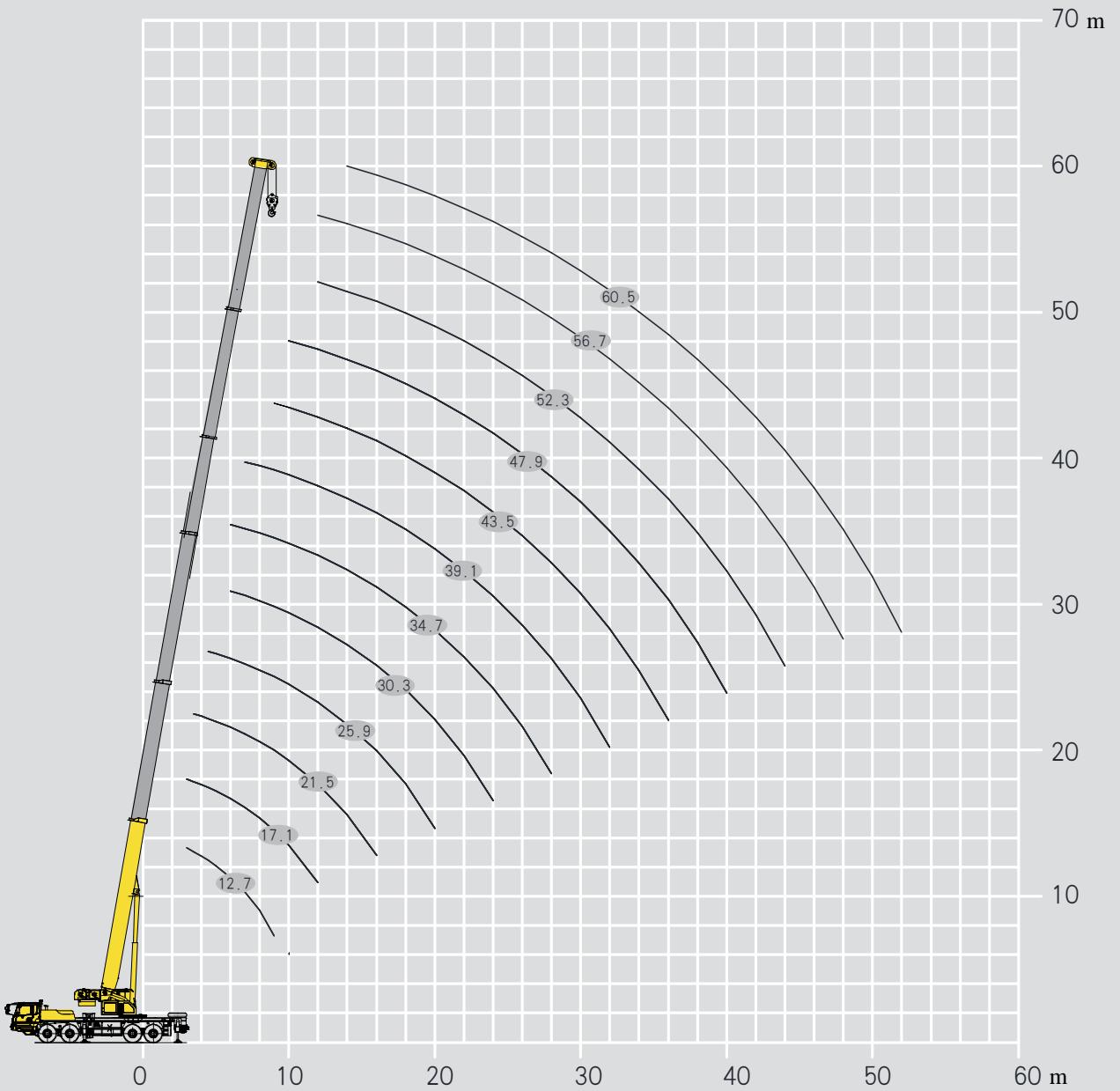
T: 12.7~60.5 m



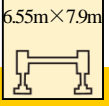
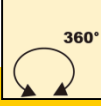


Jib



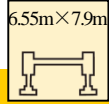

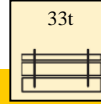

T: 52.3~60.5 m
J: 10.5~17.5 m

Boom extension

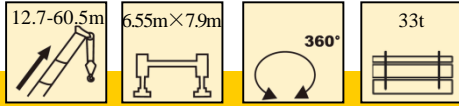
T: 52.3~60.5 m
I: 7 m
J: 10.5~17.5 m





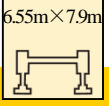
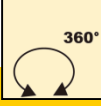


	   																	
	12.7	17.1	17.1	17.1	17.1	21.5	21.5	21.5	21.5	25.9	25.9	25.9	25.9					
3	110*	67.0	76.0	76.0	76.0									3				
3.5	80.0	63.0	74.0	74.0	74.0	46.3	67.0	67.0	68.0					3.5				
4	78.0	60.0	70.0	70.0	72.0	43.5	65.0	65.0	67.5					4				
4.5	74.0	57.0	66.0	66.0	69.0	41.3	62.0	63.0	65.0	42.3	53.0	52.0		4.5				
5	68.0	53.0	63.0	63.0	66.5	38.7	60.0	60.0	62.0	39.6	53.0	52.0		5				
6	60.0	48.0	57.5	57.5	58.0	35.0	54.0	55.0	56.8	35.5	53.0	51.0		6				
7	49.0	43.9	48.0	48.0	49.0	32.1	47.0	47.0	49.0	32.3	49.0	47.0		7				
8	43.5	41.3	42.0	42.0	43.5	29.6	42.0	42.5	43.5	29.8	42.0	42.0		8				
9	38.0	37.0	38.0	37.0	38.0	27.2	37.0	38.0	37.0	27.4	37.0	37.0		9				
10		32.0	34.0	34.0	34.5	25.3	33.5	34.5	33.0	25.5	34.5	33.0		10				
12		28.0	29.0	27.0	27.0	22.3	29.0	28.0	27.0	22.5	29.0	28.0		12				
14						19.9	24.5	24.0	23.0	19.8	24.5	23.0		14				
16						17.7	21.5	19.9	18.8	17.7	21.5	19.8		16				
18										16.1	18.0	16.2		18				
20										14.6	15.2	13.5		20				



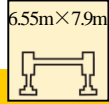

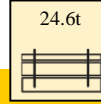

	   																	
	25.9	30.3	30.3	30.3	30.3	34.7	34.7	34.7	34.7	39.1	39.1	39.1	39.1					
4.5	54.4													4.5				
5	54.4													5				
6	51.0	30.4	46.0	47.6	46.0	31.0	40.0	40.8	40.0					6				
7	47.0	27.8	45.0	47.0	44.0	28.7	40.0	40.8	40.0	27.5	32.0	33.0		7				
8	43.5	25.5	42.0	43.0	40.0	26.6	36.7	40.0	39.0	25.5	32.0	33.0		8				
9	38.0	23.5	37.0	38.0	37.0	24.7	33.9	38.0	36.5	23.8	31.0	33.0		9				
10	33.0	21.8	34.5	33.0	32.0	23.1	31.3	34.5	33.0	22.3	30.5	32.0		10				
12	27.0	19.1	29.0	28.0	27.0	20.5	27.3	29.0	28.0	19.7	27.0	28.0		12				
14	22.0	16.8	24.5	23.0	22.0	18.2	23.0	24.3	22.0	17.6	24.0	24.0		14				
16	19.5	15.0	21.5	20.3	19.1	16.3	21.3	21.1	19.8	15.8	20.0	20.0		16				
18	15.9	13.5	17.9	16.7	15.5	14.8	17.7	17.4	16.2	14.2	18.0	17.4		18				
20	13.2	12.3	15.3	13.9	12.8	13.6	14.9	14.7	13.5	12.9	15.3	14.6		20				
22		11.3	13.1	11.8	10.7	12.5	12.7	12.5	11.4	11.8	13.1	12.4		22				
24		10.5	11.3	10.0	9.0	11.5	11.0	10.8	9.6	10.9	11.3	10.7		24				
26						10.7	9.5	9.3	8.2	10.1	9.9	9.3		26				
28						9.6	8.3	8.1	7.0	9.3	8.7	8.1		28				
30										8.6	7.7	7.1		30				
32										7.7	6.8	6.2		32				

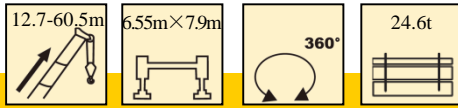
* Capacity class



	39.1	43.5	43.5	43.5	43.5	47.9	47.9	47.9	47.9	52.3	52.3	56.7	60.5	
7	34.0													7
8	34.0													8
9	34.0	23.8	26.0	26.0	27.2									9
10	32.0	22.5	24.7	25.0	27.2	21.6	22.2	23.8	25.5					10
12	28.0	20.1	22.2	24.0	26.1	19.6	20.2	21.5	23.2	18.7	19.6	16.0		12
14	25.0	18.1	20.2	22.2	23.3	17.7	18.4	19.6	21.0	17.2	18.7	15.6	13.0	14
16	19.0	16.5	18.4	20.2	20.6	16.0	16.9	17.8	19.0	15.8	17.1	15.3	13.0	16
18	17.0	14.9	16.9	17.5	17.0	14.6	15.5	16.2	17.1	14.6	15.4	14.0	12.6	18
20	14.2	13.7	15.6	14.8	14.2	13.2	14.3	14.9	14.4	13.4	13.9	12.6	11.6	20
22	12.1	12.6	13.4	12.6	12.0	12.1	13.2	12.9	12.2	12.3	12.5	11.4	10.4	22
24	10.3	11.7	11.6	10.9	10.3	11.1	11.7	11.2	10.5	11.3	10.8	10.5	9.4	24
26	8.9	10.7	10.2	9.4	8.9	10.5	10.2	9.7	9.1	10.2	9.4	9.6	8.6	26
28	7.7	9.5	9.0	8.2	7.7	9.2	9.0	8.5	7.9	9.0	8.2	8.5	8.0	28
30	6.7	8.4	7.9	7.2	6.7	8.2	8.0	7.5	6.9	7.9	7.2	7.6	7.3	30
32	5.8	7.6	7.0	6.3	5.8	7.3	7.1	6.6	6.0	7.1	6.3	6.7	6.7	32
34		6.8	6.3	5.6	5.1	6.5	6.3	5.9	5.2	6.3	5.5	5.9	6.0	34
36		6.1	5.6	4.9	4.4	5.9	5.7	5.2	4.6	5.6	4.9	5.3	5.3	36
38						5.3	5.1	4.6	4.0	5.0	4.3	4.7	4.7	38
40						4.7	4.5	4.1	3.4	4.5	3.7	4.1	4.2	40
42										4.1	3.3	3.7	3.8	42
44										3.6	2.8	3.2	3.3	44
46												2.8	2.9	46
48												2.5	2.5	48
50													2.2	50
52													1.9	52

	   																
	12.7	17.1	17.1	17.1	17.1	21.5	21.5	21.5	21.5	25.9	25.9	25.9					
3	88	67.0	76.0	76.0	76.0									3			
3.5	80.0	63.0	74.0	74.0	74.0	46.3	67.0	67.0	68.0					3.5			
4	78.0	60.0	70.0	70.0	72.0	43.5	65.0	64.5	67.5					4			
4.5	74.0	57.0	66.0	66.0	69.0	41.3	62.0	63.0	65.0	42.3	53.0	52.0		4.5			
5	68.0	53.0	63.0	63.0	66.5	38.7	60.0	60.0	62.0	39.6	52.5	52.0		5			
6	60.0	48.0	57.5	57.5	58.0	35.0	54.0	55.0	56.8	35.5	53.0	51.0		6			
7	49.0	43.9	48.0	48.0	49.0	32.1	47.0	47.0	49.0	32.3	49.0	47.0		7			
8	43.5	41.3	42.0	42.0	43.5	29.6	42.0	42.5	43.5	29.8	42.0	42.0		8			
9	37.0	37.0	38.0	37.0	38.0	27.2	37.0	38.0	37.0	27.4	37.0	37.0		9			
10		32.0	34.0	34.0	34.0	25.3	33.5	34.5	33.0	25.5	34.5	33.0		10			
12		26.4	25.9	25.4	24.7	22.3	28.8	26.8	25.7	22.5	29.0	26.9		12			
14						18.0	22.4	20.8	19.5	19.8	22.6	20.5		14			
16						16.0	18.0	16.3	15.2	17.7	18.2	16.2		16			
18										15.7	15.0	13.1		18			
20										13.2	12.6	10.8		20			



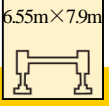
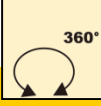
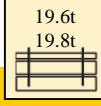

	   																
	25.9	30.3	30.3	30.3	30.3	34.7	34.7	34.7	34.7	39.1	39.1	39.1					
4.5	54.4													4.5			
5	54.4													5			
6	51.0	30.4	46.0	47.6	46.0	31.0	40.0	40.8	40.0					6			
7	47.0	27.8	45.0	47.0	43.0	28.7	40.0	40.8	40.0	27.5	32.0	33.0		7			
8	43.5	25.5	42.0	43.0	40.0	26.6	36.7	40.0	38.0	25.5	32.0	33.0		8			
9	38.0	23.5	37.0	38.0	37.0	24.7	33.9	38.0	36.5	23.8	31.0	33.0		9			
10	33.0	21.8	34.5	33.0	32.0	23.1	31.3	34.5	33.0	22.3	30.5	32.0		10			
12	26.5	19.1	28.9	27.4	26.1	20.5	27.3	28.3	26.9	19.7	27.0	28.0		12			
14	20.2	16.8	22.4	21.1	19.8	18.2	22.1	21.9	20.6	17.6	22.5	21.8		14			
16	15.9	15.0	18.0	16.7	15.5	16.3	17.8	17.5	16.3	15.8	18.2	17.5		16			
18	12.8	13.5	14.9	13.6	12.5	14.8	14.6	14.4	13.2	14.2	15.0	14.3		18			
20	10.7	12.3	12.4	11.2	10.1	13.6	12.2	12.0	10.8	12.9	12.6	11.9		20			
22		11.3	10.6	9.4	8.3	11.7	10.3	10.1	9.0	11.6	10.7	10.0		22			
24		10.0	9.2	8.0	6.8	10.1	8.8	8.6	7.5	10.0	9.2	8.5		24			
26						8.9	7.6	7.4	6.3	8.8	7.9	7.3		26			
28						7.8	6.5	6.3	5.2	7.7	6.9	6.3		28			
30										6.8	6.0	5.4		30			
32										6.0	5.2	4.6		32			


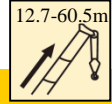
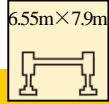

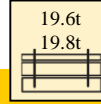



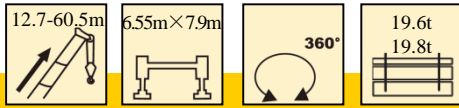
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7	34.0													7
8	34.0													8
9	34.0	23.8	26.0	26.0	27.2									9
10	32.0	22.5	24.7	25.0	27.2	21.6	22.2	23.8	25.5					10
12	27.7	20.1	22.2	24.0	26.1	19.6	20.2	21.5	23.2	18.7	19.6	16.0		12
14	21.4	18.1	20.2	22.0	21.4	17.7	18.4	19.6	21.0	17.2	18.7	15.6	13.0	14
16	17.0	16.5	18.4	17.6	17.0	16.0	16.9	17.8	17.2	15.8	17.1	15.3	13.0	16
18	13.9	14.9	15.3	14.5	13.9	14.6	15.3	14.8	14.1	14.6	14.4	14.0	12.6	18
20	11.5	13.3	12.9	12.1	11.5	13.1	12.9	12.4	11.7	12.8	12.0	12.4	11.6	20
22	9.7	11.4	11.0	10.2	9.6	11.2	11.0	10.5	9.8	10.9	10.1	10.5	10.4	22
24	8.2	9.9	9.4	8.7	8.1	9.7	9.5	9.0	8.3	9.4	8.6	9.0	9.1	24
26	6.9	8.7	8.2	7.5	6.9	8.4	8.3	7.8	7.1	8.1	7.4	7.8	7.8	26
28	5.9	7.6	7.1	6.4	5.9	7.3	7.2	6.7	6.1	7.1	6.4	6.7	6.8	28
30	5.0	6.7	6.3	5.5	5.0	6.5	6.3	5.8	5.2	6.2	5.5	5.8	5.9	30
32	4.3	5.9	5.5	4.8	4.2	5.7	5.6	5.1	4.4	5.4	4.7	5.1	5.1	32
34		5.3	4.8	4.1	3.6	5.0	4.9	4.4	3.8	4.8	4.1	4.4	4.5	34
36		4.7	4.2	3.5	3.0	4.4	4.3	3.8	3.2	4.2	3.5	3.8	3.9	36
38						3.9	3.8	3.3	2.7	3.7	3.0	3.3	3.4	38
40						3.5	3.3	2.8	2.2	3.2	2.5	2.9	2.9	40
42										2.8	2.1	2.4	2.5	42
44										2.4	1.7	2.0	2.1	44
46												1.7	1.7	46
48												1.4	1.4	48
50													1.2	50

Load charts



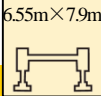
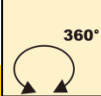
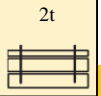

T 12.7~39.1 m


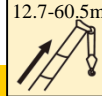
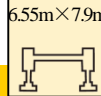
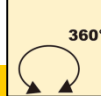
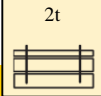

	   																
	12.7	17.1	17.1	17.1	17.1	21.5	21.5	21.5	21.5	25.9	25.9	25.9					
3	80.0	67.0	76.0	76.0	76.0									3			
3.5	80.0	63.0	74.0	74.0	74.0	46.3	67.0	67.0	68.0					3.5			
4	78.0	60.0	70.0	70.0	72.0	43.5	65.0	64.5	67.5					4			
4.5	74.0	57.0	66.0	66.0	69.0	41.3	62.0	63.0	65.0	42.3	53.0	52.0		4.5			
5	68.0	53.0	63.0	63.0	66.5	38.7	60.0	60.0	62.0	39.6	52.5	52.0		5			
6	60.0	48.0	57.5	57.5	58.0	35.0	54.0	55.0	56.8	35.5	53.0	51.0		6			
7	49.0	43.9	48.0	48.0	49.0	32.1	47.0	47.0	49.0	32.3	49.0	47.0		7			
8	43.0	41.3	42.0	42.0	43.0	29.6	42.0	42.5	43.0	29.8	42.0	42.0		8			
9	36.0	37.0	38.0	37.0	38.0	27.2	37.0	38.0	37.0	27.4	37.0	37.0		9			
10		31.0	32.0	32.0	31.3	25.3	33.5	31.4	30.2	25.5	33.6	31.4		10			
12		24.1	23.6	23.0	22.0	22.3	24.6	22.6	21.5	22.5	24.7	22.5		12			
14						18.0	19.0	17.2	16.2	19.8	19.1	17.1		14			
16						15.0	15.1	13.5	12.4	16.3	15.3	13.4		16			
18										13.5	12.5	10.7		18			
20										11.3	10.5	8.7		20			

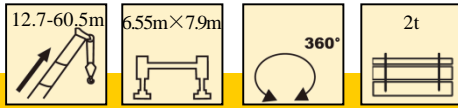
	   																
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4.5	54.4													4.5			
5	54.4													5			
6	51.0	30.4	46.0	47.6	46.0	31.0	40.0	40.8	40.0					6			
7	47.0	27.8	45.0	47.0	44.0	28.7	40.0	40.8	40.0	27.5	32.0	33.0		7			
8	43.0	25.5	42.0	43.0	40.0	26.6	36.7	40.0	38.0	25.5	32.0	33.0		8			
9	38.0	23.5	37.0	38.0	37.0	24.7	33.9	38.0	36.5	23.8	31.0	33.0		9			
10	31.0	21.8	33.4	31.9	30.5	23.1	31.3	32.9	31.4	22.3	30.5	32.0		10			
12	22.2	19.1	24.4	23.1	21.9	20.5	24.1	23.9	22.6	19.7	24.6	23.8		12			
14	16.8	16.8	18.9	17.6	16.4	18.2	18.6	18.4	17.2	17.6	19.0	18.3		14			
16	13.1	15.0	15.1	13.9	12.7	16.2	14.8	14.6	13.5	15.8	15.2	14.5		16			
18	10.5	13.3	12.4	11.2	10.1	13.5	12.2	12.0	10.7	13.4	12.4	11.9		18			
20	8.5	11.2	10.3	9.1	8.1	11.4	10.1	9.9	8.7	11.3	10.5	9.8		20			
22		9.6	8.6	7.5	6.5	9.7	8.5	8.3	7.1	9.6	8.7	8.2		22			
24		8.3	7.3	6.3	5.2	8.4	7.1	6.9	5.9	8.3	7.5	6.8		24			
26						7.3	6.1	5.9	4.8	7.2	6.4	5.8		26			
28						6.4	5.1	4.9	3.8	6.3	5.4	4.8		28			
30										5.5	4.7	4.1		30			
32										4.8	4.0	3.4		32			



	39.1	43.5	43.5	43.5	43.5	47.9	47.9	47.9	47.9	52.3	52.3	56.7	60.5	
7	34.0													7
8	34.0													8
9	34.0	23.8	26.0	26.0	27.2									9
10	32.0	22.5	24.7	25.0	27.2	21.6	22.2	23.8	25.5					10
12	23.4	20.1	22.2	24.0	23.4	19.6	20.2	21.5	23.2	18.7	19.6	16.0		12
14	18.0	18.1	19.3	18.5	17.9	17.7	18.4	18.8	18.1	17.2	18.4	15.6	13.0	14
16	14.2	16.1	15.5	14.7	14.2	15.8	15.6	15.1	14.3	15.5	14.7	15.1	13.0	16
18	11.5	13.2	12.8	12.1	11.5	13.0	12.8	12.4	11.7	12.7	12.0	12.4	12.4	18
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22	7.8	9.5	9.0	8.4	7.8	9.2	9.1	8.6	8.0	9.0	8.3	8.6	8.6	22
24	6.6	8.2	7.8	7.0	6.6	8.0	7.8	7.3	6.7	7.7	6.9	7.3	7.4	24
26	5.4	7.1	6.7	6.0	5.4	6.8	6.7	6.3	5.6	6.7	5.9	6.3	6.3	26
28	4.5	6.2	5.7	5.0	4.5	5.9	5.8	5.3	4.7	5.7	4.9	5.3	5.3	28
30	3.7	5.4	4.9	4.3	3.7	5.1	5.0	4.6	3.9	4.8	4.2	4.6	4.6	30
32	3.0	4.7	4.3	3.6	3.0	4.5	4.4	3.9	3.2	4.2	3.5	3.9	3.9	32
34		4.1	3.7	3.0	2.5	3.9	3.7	3.2	2.7	3.6	2.9	3.3	3.3	34
36		3.6	3.1	2.5	2.0	3.3	3.2	2.8	2.2	3.1	2.5	2.8	2.9	36
38						2.9	2.8	2.3	1.7	2.7	2.0	2.4	2.4	38
40						2.5	2.4	1.9	1.3	2.3	1.6	1.9	2.0	40
42										1.9	1.2	1.6	1.6	42
44										1.6		1.2	1.3	44

	   												
	12.7	17.1	17.1	17.1	17.1	21.5	21.5	21.5	21.5	25.9	25.9	25.9	
3	80.0	67.0	76.0	76.0	76.0								3
3.5	80.0	63.0	74.0	74.0	74.0	46.3	67.0	67.0	68.0				3.5
4	78.0	60.0	70.0	70.0	72.0	43.5	65.0	64.5	67.5				4
4.5	72.0	57.0	66.0	66.0	69.0	41.3	62.0	63.0	65.0	42.3	53.0	52.0	4.5
5	64.5	53.0	63.0	63.0	64.5	38.7	60.0	60.0	62.0	39.6	52.5	52.0	5
6	54.0	48.0	53.5	53.0	53.0	35.0	53.0	53.0	52.0	35.5	53.0	51.0	6
7	36.7	39.4	39.9	39.0	38.0	32.1	42.0	39.3	37.5	32.3	42.4	39.2	7
8	27.0	30.4	29.8	29.0	28.1	29.0	31.7	29.2	27.7	29.8	31.9	29.1	8
9	20.9	23.9	23.3	22.5	21.8	24.4	25.0	22.8	21.5	25.3	25.3	22.7	9
10		19.3	18.7	18.0	17.2	20.0	20.4	18.2	16.8	21.5	20.7	18.1	10
12		12.8	12.3	11.7	10.9	14.1	13.9	11.9	10.6	15.0	14.2	11.8	12
14						10.2	10.0	8.1	7.0	11.0	10.3	8.0	14
16						7.6	7.4	5.7	4.6	8.3	7.7	5.6	16
18										6.6	5.7	3.8	18
20										5.1	4.4	2.5	20

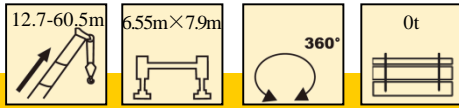
	   												
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4.5	54.4												4.5
5	54.4												5
6	51.0	30.4	46.0	47.6	46.0	31.0	40.0	40.8	40.0				6
7	38.7	27.8	40.8	40.0	38.0	28.7	40.0	40.0	38.0	27.5	32.0	33.0	7
8	28.7	25.5	31.7	29.8	28.1	26.6	31.3	31.0	29.1	25.5	31.9	30.9	8
9	22.3	23.5	25.0	23.3	21.8	24.7	24.6	24.4	22.7	23.8	25.2	24.3	9
10	17.7	21.7	20.4	18.8	17.2	21.9	20.1	19.8	17.7	21.8	20.6	19.7	10
12	11.5	15.2	13.9	12.3	11.0	15.4	13.6	12.9	11.5	15.3	14.1	13.2	12
14	7.7	11.2	10.1	8.6	7.3	11.4	9.7	9.5	7.9	11.3	10.2	9.4	14
16	5.3	8.4	7.4	6.0	4.8	8.5	7.0	6.7	5.5	8.4	7.4	6.7	16
18	3.5	6.6	5.5	4.3	3.1	6.7	5.2	5.0	3.8	6.6	5.6	4.9	18
20	2.2	5.2	4.2	2.9	1.9	5.3	3.9	3.7	2.6	5.2	4.3	3.7	20
22		4.2	3.2	2.0		4.3	2.9	2.8	1.6	4.2	3.3	2.7	22
24		3.3	2.4	1.2		3.4	2.1	1.9		3.3	2.5	1.9	24
26						2.8	1.5	1.3		2.7	1.8	1.2	26
28						2.2				2.1	1.3		28



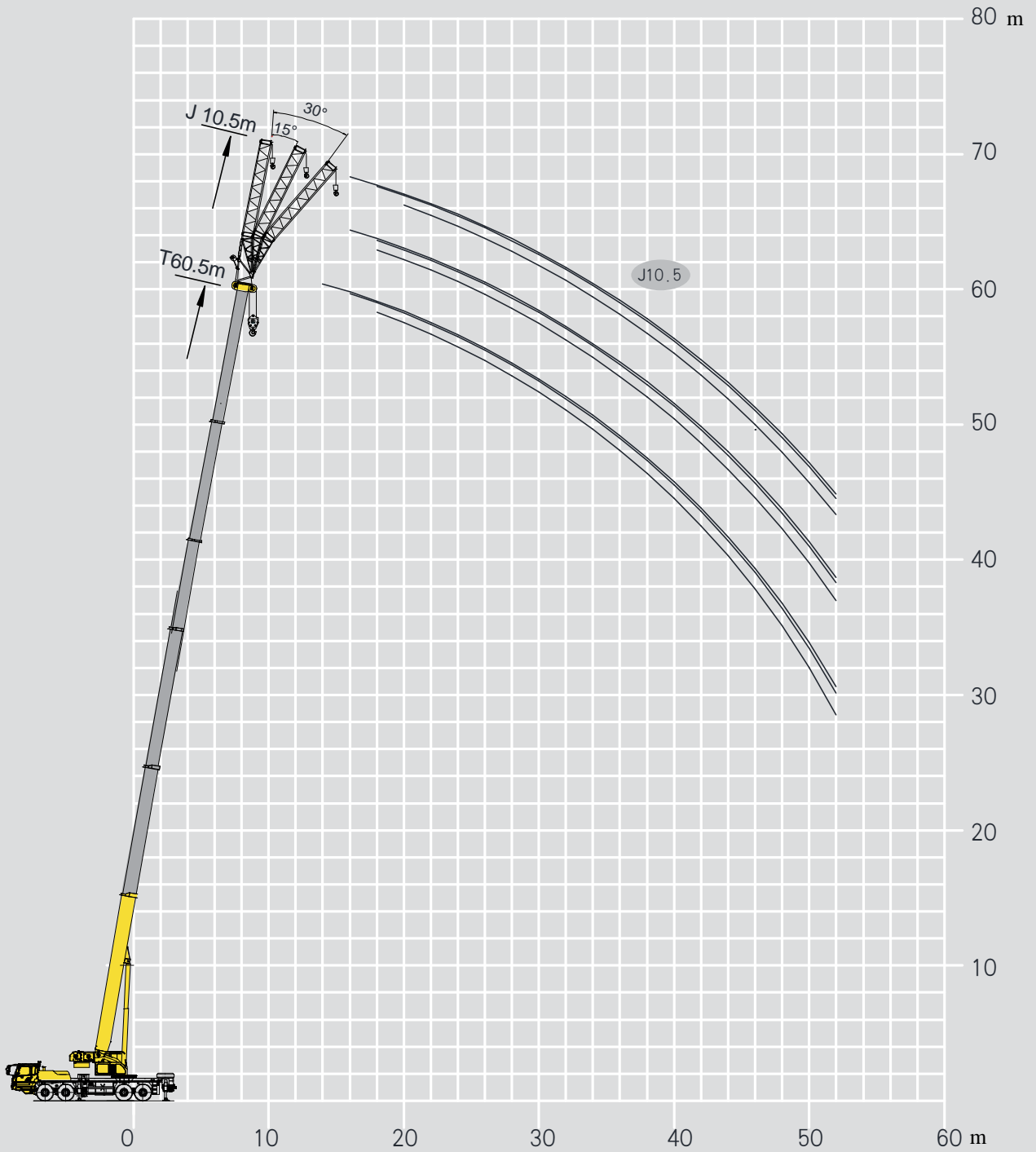
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7	34.0													7
8	30.2													8
9	23.7	23.8	24.8	24.5	23.7									9
10	19.2	21.6	21.0	19.9	19.2	21.2	21.1	20.4	19.4					10
12	12.7	15.1	14.5	13.5	12.7	14.3	14.2	13.5	12.5	14.0	13.0	13.5		12
14	8.9	11.1	10.6	9.6	8.9	10.5	10.3	9.7	8.8	10.2	9.2	9.7	9.8	14
16	6.3	8.3	7.7	6.8	6.3	8.0	7.8	7.2	6.5	7.6	6.8	7.2	7.2	16
18	4.6	6.5	5.9	5.1	4.6	6.2	6.0	5.4	4.8	5.9	5.0	5.5	5.5	18
20	3.2	5.1	4.7	3.8	3.2	4.8	4.7	4.2	3.4	4.6	3.8	4.2	4.2	20
22	2.3	4.1	3.6	2.9	2.3	3.8	3.6	3.1	2.5	3.5	2.8	3.1	3.2	22
24	1.5	3.2	2.8	2.0	1.5	2.9	2.9	2.4	1.7	2.8	2.0	2.4	2.4	24
26		2.6	2.1	1.4		2.3	2.2	1.7	1.0	2.1	1.3	1.7	1.7	26
28		2.0	1.5			1.7	1.6	1.1		1.5		1.1	1.1	28

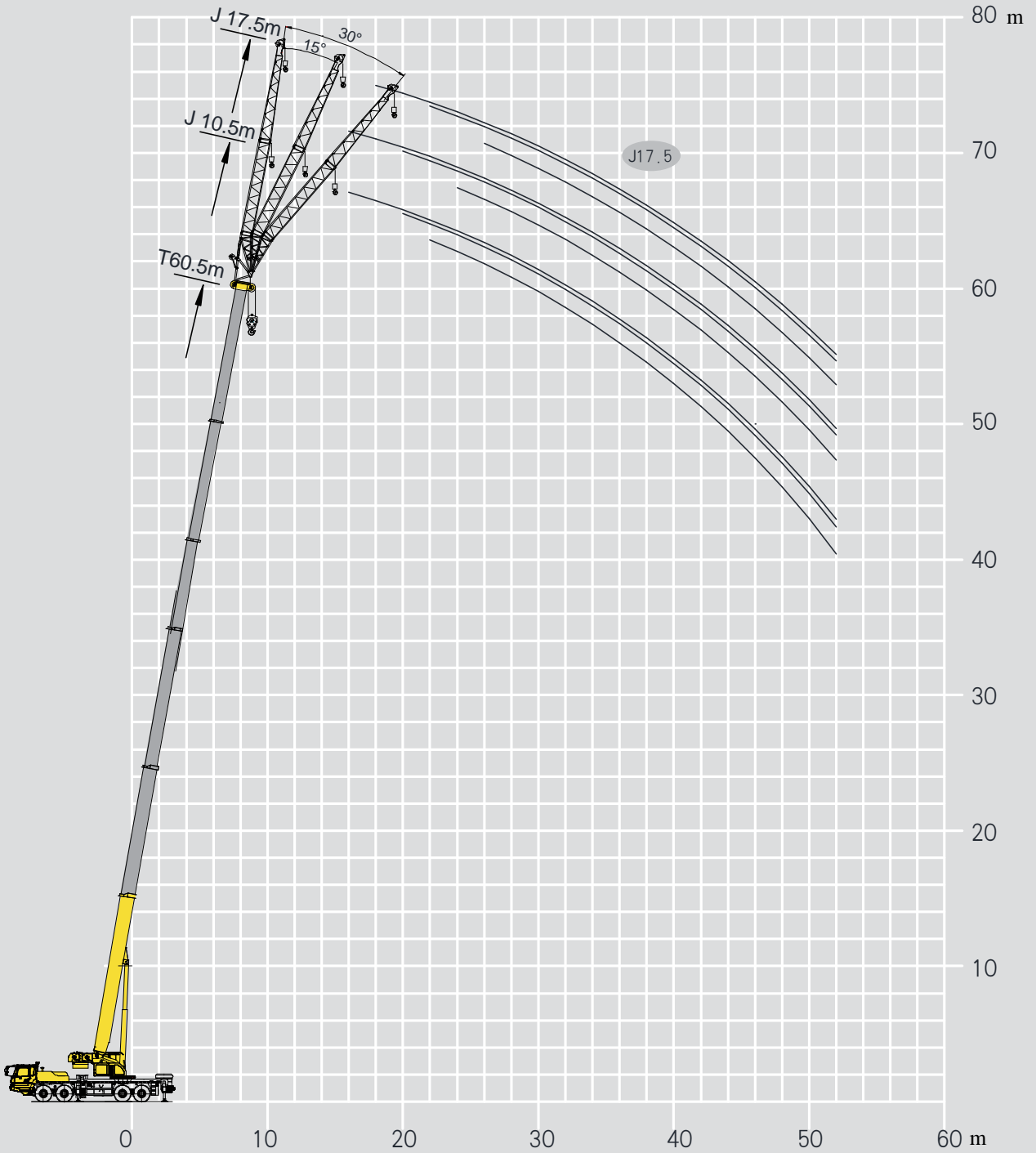
Reach (m)													
	12.7	17.1	17.1	17.1	17.1	21.5	21.5	21.5	21.5	25.9	25.9	25.9	
3	80.0	67.0	76.0	76.0	76.0								3
3.5	80.0	63.0	74.0	74.0	74.0	46.3	67.0	67.0	68.0				3.5
4	78.0	60.0	70.0	70.0	72.0	43.5	65.0	64.5	67.5				4
4.5	72.0	57.0	66.0	66.0	69.0	41.3	62.0	63.0	65.0	42.3	53.0	52.0	4.5
5	64.5	53.0	63.0	63.0	64.0	38.7	60.0	60.0	62.0	39.6	52.5	52.0	5
6	50.0	48.0	54.1	53.0	51.7	35.0	52.0	53.3	51.2	35.5	53.0	51.0	6
7	34.0	37.3	36.6	35.7	34.7	32.1	38.7	36.0	34.2	32.3	39.0	35.8	7
8	25.0	27.8	27.2	26.4	25.5	28.0	29.0	26.6	25.1	28.0	29.3	26.5	8
9	19.0	21.7	21.1	20.5	19.6	23.0	22.9	20.7	19.2	24.0	23.1	20.6	9
10		17.2	16.6	15.8	14.9	18.7	18.3	16.0	14.6	19.5	18.6	15.9	10
12		11.3	10.7	10.0	9.3	12.5	12.3	10.3	9.0	13.3	12.5	10.2	12
14						9.0	8.7	6.9	5.7	9.7	9.0	6.8	14
16						6.7	6.4	4.7	3.5	7.3	6.6	4.6	16
18										5.6	4.9	3.0	18
20										4.4	3.8	1.8	20

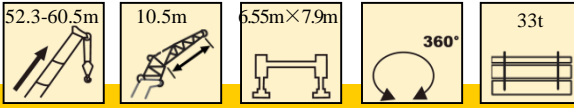
Reach (m)													
	25.9	30.3	30.3	30.3	30.3	34.7	34.7	34.7	34.7	39.1	39.1	39.1	
4.5	54.4												4.5
5	54.4												5
6	51.0	30.4	46.0	47.6	46.0	31.0	40.0	40.8	40.0				6
7	35.4	27.8	38.7	36.6	34.7	28.7	38.2	37.9	35.9	27.5	32.0	33.0	7
8	26.1	25.5	29.0	27.2	25.5	26.6	28.6	28.3	26.6	25.5	29.2	28.2	8
9	20.2	23.5	22.9	21.2	19.6	24.4	22.5	22.1	20.7	23.8	23.0	22.1	9
10	15.5	20.0	18.3	16.6	14.9	20.0	17.9	17.7	16.0	19.5	18.1	17.2	10
12	9.8	13.7	12.3	10.8	9.3	13.8	11.9	11.7	10.2	13.3	12.2	11.4	12
14	6.5	10.0	8.7	7.4	6.0	10.1	8.4	8.2	6.9	9.8	8.7	8.0	14
16	4.3	7.5	6.4	5.1	3.9	7.7	6.1	5.9	4.7	7.4	6.5	5.7	16
18	2.7	5.9	4.8	3.4	2.3	5.9	4.6	4.3	3.0	5.7	4.8	4.2	18
20	1.6	4.6	3.6	2.3	1.1	4.7	3.3	3.1	1.8	4.5	3.6	2.9	20
22		3.6	2.6	1.3		3.7	2.3	2.1		3.5	2.7	2.0	22
24		2.8	1.8			2.9	1.6	1.3		2.8	1.9	1.3	24



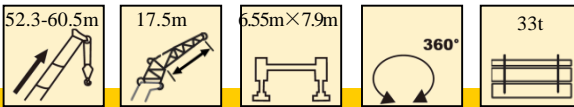
	39.1	43.5	43.5	43.5	43.5	47.9	47.9	47.9	47.9	52.3	52.3	56.7	60.5	
7	34.0													7
8	27.6													8
9	21.6	23.8	23.5	22.4	21.5									9
10	16.6	19.3	18.5	17.5	16.6	18.9	18.6	18.0	16.9					10
12	10.9	13.2	12.5	11.6	10.8	12.8	12.6	12.0	11.1	12.4	11.5	12.0		12
14	7.5	9.6	9.0	8.2	7.5	9.3	9.1	8.6	7.7	9.0	8.1	8.6	8.6	14
16	5.3	7.2	6.7	5.9	5.3	6.9	6.8	6.3	5.5	6.7	5.8	6.3	6.3	16
18	3.7	5.6	5.1	4.3	3.7	5.3	5.2	4.7	3.9	5.0	4.3	4.6	4.6	18
20	2.6	4.4	3.9	3.1	2.6	4.1	4.0	3.4	2.8	3.8	3.0	3.4	3.4	20
22	1.6	3.4	2.9	2.2	1.6	3.1	3.0	2.5	1.8	2.9	2.2	2.5	2.5	22
24		2.7	2.2	1.4		2.4	2.3	1.8		2.2	1.4	1.7	1.7	24



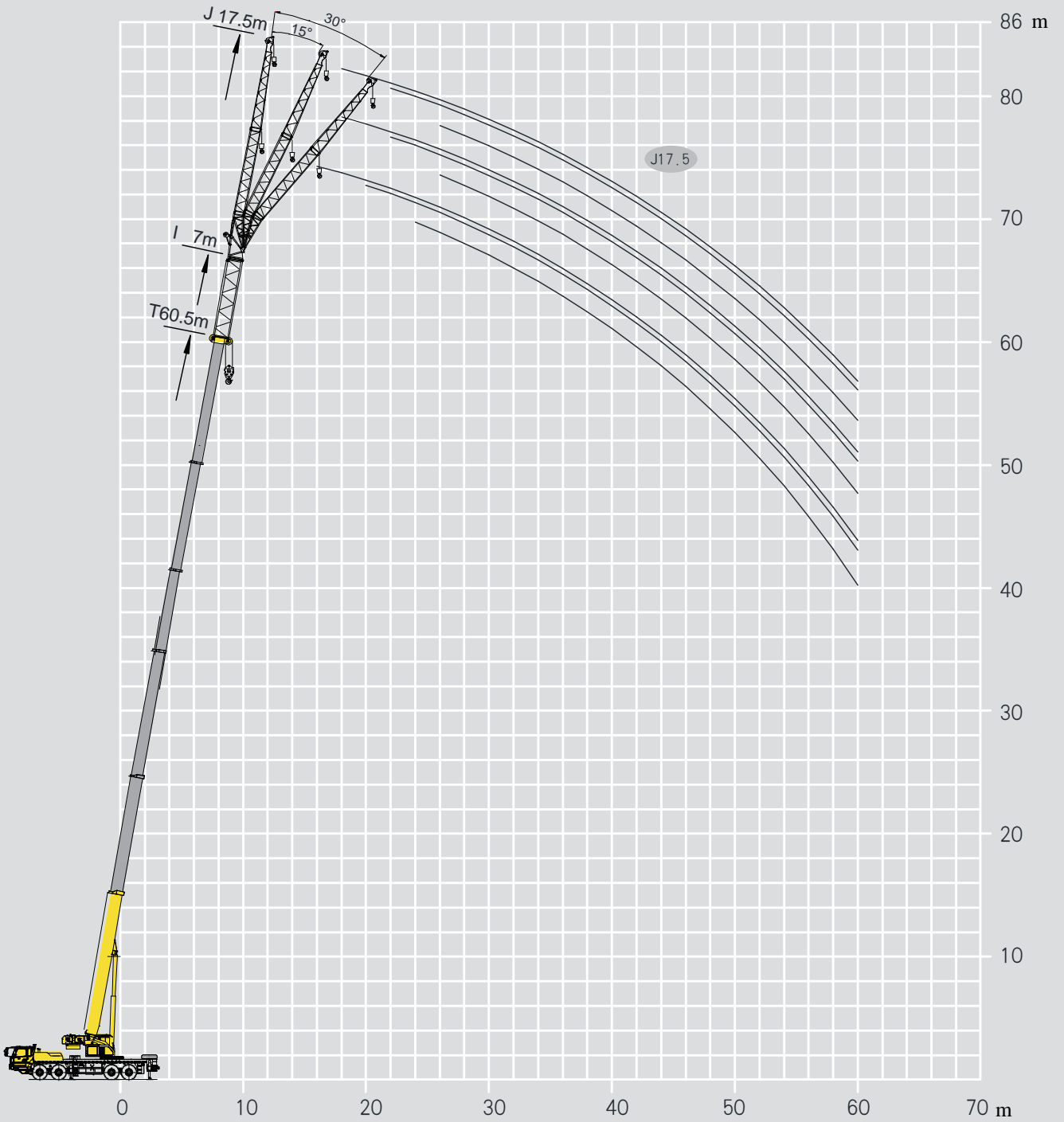


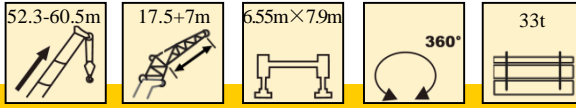


	52.3m			56.7m			60.5m			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
14	6.5									14
16	6.5	6.5		6.5			6.5			16
18	6.5	6.2	4.8	6.2	5.7	4.5	6.5	5.9		18
20	6.5	6.1	4.7	5.9	5.6	4.4	6.3	5.8	4.5	20
22	6.5	5.9	4.7	5.8	5.3	4.6	6.2	5.6	4.5	22
24	6.4	5.8	4.6	5.6	5.1	4.5	5.9	5.5	4.4	24
26	6.1	5.4	4.5	5.3	5.0	4.4	5.8	5.4	4.3	26
28	5.9	5.3	4.4	5.1	4.8	4.4	5.7	5.3	4.3	28
30	5.6	5.1	4.4	4.8	4.6	4.3	5.5	5.1	4.3	30
32	5.4	5.0	4.3	4.7	4.6	4.3	5.3	5.0	4.2	32
34	5.3	4.9	4.2	4.6	4.5	4.2	5.0	4.9	4.1	34
36	5.0	4.8	4.3	4.4	4.3	4.2	4.6	4.6	4.1	36
38	4.5	4.6	4.1	4.1	4.2	4.1	4.1	4.2	4.0	38
40	4.1	4.2	4.0	3.7	3.9	4.0	3.7	3.9	3.9	40
42	3.6	3.8	3.9	3.3	3.4	3.6	3.2	3.4	3.6	42
44	3.2	3.4	3.5	2.9	3.1	3.2	2.9	3.1	3.2	44
46	2.9	3.1	3.2	2.6	2.7	2.8	2.5	2.7	2.8	46
48	2.6	2.7	2.8	2.3	2.4	2.5	2.3	2.3	2.4	48
50	2.3	2.4	2.4	2.0	2.1	2.2	2.0	2.1	2.2	50
52	2.1	2.2	2.2	1.7	1.8	1.9	1.7	1.8	1.9	52
Code	12222			22222			33333			Code



	52.3m			56.7m			60.5m			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16	4.8			4.4						16
18	4.6			4.3			4.1			18
20	4.5	3.3		4.2	3.3		4.0			20
22	4.2	3.2	2.2	4.1	3.2		3.9	3.0		22
24	4.0	3.0	2.2	4.0	3.1	2.3	3.8	2.9		24
26	3.9	2.9	2.2	3.8	3.0	2.3	3.7	2.9	2.4	26
28	3.8	2.8	2.2	3.6	2.8	2.3	3.6	2.9	2.3	28
30	3.7	2.8	2.2	3.5	2.7	2.2	3.5	2.8	2.2	30
32	3.6	2.7	2.2	3.4	2.7	2.1	3.3	2.7	2.2	32
34	3.5	2.6	2.2	3.3	2.6	2.1	3.2	2.6	2.2	34
36	3.3	2.6	2.1	3.2	2.6	2.1	3.1	2.6	2.1	36
38	3.2	2.5	2.0	3.0	2.5	2.0	3.0	2.4	2.1	38
40	3.1	2.4	1.9	3.0	2.5	2.0	2.9	2.5	2.1	40
42	3.0	2.3	1.9	3.0	2.5	2.0	2.9	2.4	1.9	42
44	2.8	2.3	1.8	2.9	2.4	1.9	2.8	2.3	1.9	44
46	2.8	2.3	1.8	2.8	2.3	1.9	2.8	2.3	1.9	46
48	2.7	2.2	1.8	2.5	2.3	1.8	2.5	2.2	1.8	48
50	2.6	2.1	1.8	2.3	2.2	1.8	2.2	2.2	1.8	50
52	2.3	2.1	1.8	2.0	2.2	1.8	2.0	2.2	1.8	52
Code	12222			22222			33333			Code





	52.3m			56.7m			60.5m			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16	3.1									16
18	3.1			2.9			2.6			18
20	3.1	2.6		2.9			2.6			20
22	3.1	2.5		2.8	2.5		2.6	2.5		22
24	3.1	2.3	1.4	2.8	2.4		2.6	2.4		24
26	3.1	2.2	1.4	2.8	2.3	1.4	2.6	2.3	1.5	26
28	3.1	2.1	1.4	2.8	2.1	1.3	2.6	2.2	1.4	28
30	3.1	2.0	1.3	2.8	2.0	1.3	2.6	2.1	1.3	30
32	3.1	1.9	1.3	2.8	1.9	1.3	2.6	2.0	1.3	32
34	3.0	1.7	1.2	2.8	1.8	1.2	2.6	1.8	1.3	34
36	2.9	1.6	1.2	2.8	1.8	1.1	2.6	1.8	1.1	36
38	2.8	1.6	1.2	2.8	1.7	1.1	2.6	1.8	1.1	38
40	2.6	1.5	1.1	2.8	1.5	1.1	2.6	1.7	1.1	40
42	2.5	1.5	1.1	2.7	1.5	1.1	2.6	1.6	1.1	42
44	2.4	1.4	1.1	2.6	1.5	1.0	2.6	1.5	1.0	44
46	2.3	1.4	1.0	2.5	1.4	1.0	2.6	1.5	1.0	46
48	2.1	1.3	1.0	2.3	1.4	1.0	2.4	1.5	1.0	48
50	2.0	1.3		2.2	1.4	1.0	2.2	1.4	1.0	50
52	1.9	1.3		2.1	1.3		2.0	1.4	1.0	52
Code	12222			22222			33333			Code

Description of symbols

	Superstructure		Chassis
	Lifting capacity		Axle
	Boom length		Travel speed
	Working radius		Grade ability
	Boom angle		Tire
	Boom lifting height		Outrigger
	Fixed jib length		Hook block
	Jib offset angle		Counterweight
	Jib lifting height		Winch
	Independent jib head		360° operation of the boom
	Boom extension		

Table of main technical parameters

Type	Item	Unit	Parameters	
Dimensions	Dimensions (L×W×H)	mm	15000×2800×3927	
	Axle spacing	mm	1500+4500+1350	
	Track (front/rear)	mm	2400/2063	
	Front overhang / rear overhang	mm	2525/2470 (XCMG Automobile); 2540/2470 (Qixing)	
	Front extension/rear extension	mm	2212/443 (XCMG Automobile); 2197/443 (Qixing)	
Weight	Max. permissible total weight	kg	49800	
	Axle load	Axle 1	kg	12000
		Axle 2	kg	12000
		Axle 3	kg	12900
		Axle 4	kg	12900
Power	Engine model	—	WP10H375E50	
	Rated power / revolution speed	kW/(r/min)	276/1900	
	Max. net power / revolution speed	kW/(r/min)	271/1900	
	Max. output torque / revolution speed	N.m/(r/min)	1800/1100-1400	
Travel	Max. travel speed	km/h	≥80	
	Min. stable travel speed	km/h	2.5 ~ 3	
	Min. turning diameter	m	≤24	
	Min. turning diameter at boom tip	m	≤30.2	
	Min. ground clearance	mm	290	
	Approach angle	°	11 (18 with front protective device removed)	
	Departure angle	°	11	
	Braking distance (initial speed at 30 km/h)	m	≤10	
	Max. grade ability	%	45	
	Fuel consumption per 100 km	L	45	
Noise	Exterior noise level when accelerating	dB(A)	≤84	
	Noise level at seated position	dB(A)	≤90	

Table of main technical parameters

Type	Item		Unit	Parameters	
Main performance	Max. rated lifting capacity		t	110	
	Min. rated working radius		m	3.0	
	Turning radius at turntable tail	At counterweight		mm	4600
		At auxiliary winch		mm	4510
	Max. load moment	Base boom		kN.m	3528
		Fully-extended boom		kN.m	2274
		Fully-extended boom + jib		kN.m	1679
	Outrigger span	Longitudinal		m	6.55
		Lateral		m	7.90 (5.9)
	Lifting height	Base boom		m	13.3
		Fully-extended boom		m	60.5
		Fully-extended boom + jib		m	85
	Boom length	Base boom		m	12.7
		Fully-extended boom		m	60.5
Fully-extended boom + jib		m	85		
Jib offset angle			°	0, 15, 30	
Working speed	Time for raising boom		s	55	
	Time for fully extending the boom		s	490	
	Max. slewing speed		r/min	2.0	
	Time for extending and retracting outriggers	Outrigger beam	Retracting	s	40
			Extending	s	40
		Outrigger jack	Retracting	s	50
			Extending	s	50
	Lifting speed (single line, 4th layer, no load)	Main winch system		m/min	145
Auxiliary winch system		m/min	90		
Noise	Exterior noise level		dB(A)	109	
	Noise level at seated position		dB(A)	85	

Notes

1. The total rated load given in the rated load charts is the maximum lifting capacity when the crane is set up on firm and level ground. The total rated load includes the weight of the hook blocks and slings. To calculate the actual weight that could be lifted, the weight of hook blocks and slings should be deducted from the lifting capacities.
2. The working radius is the horizontal distance between the gravity center of load and the rotational axis of the crane superstructure measured on the ground when the load is lifted off ground, and it is the actual value including loaded boom deflection. Take boom deflection into consideration before beginning a lifting operation.
3. 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/m²).
4. Before beginning lifting, the operator should know the weight of the load to be lifted and its working range, and should then select proper working conditions. Never operate the crane beyond the limit shown in the chart. Take the lower value from the chart when the boom length or working radius is between the range of values.
5. 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. Otherwise, the crane will tip.
6. Extend boom sections according to the specified percentage.



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