XCMG

TRUCK CRANE

XCT110_Y2

POWERING HEAVEN' S CRAFTSMANSHIP

110 t | 60.5 m | 52 m | 85 m

V.1_2025

XCMG

COMPANY PROFILE

XCMG's Hoisting machinery division is the leader in China's lifting industry focusing on the research, development and the production of mobile cranes. At XCMG's core is a commitment to technological innovation while utilizing the latest digital technologies to push the boundaries of product development and production while following our principles of social responsibility, building a sustainable and better future, and to create value for our customers.

PRODUCT RANGE

XCMG's Hoisting machinery division boasts a complete product range. Our cranes are sold and serviced in more than 190 countries and regions worldwide, with export shares consistently leading the market.

WHEELED CRANE

- 5 t-220 t Truck Crane
- 40 t-4000 t All Terrain Crane
- 25 t-150 t Rough Terrain Crane

CRAWLER CRANE

- 45 t-4000 t Lattice Crawler Crane
- 30 t-220 t Telescopic Crawler Crane

4-Axle 110-tonne truck crane with strong lifting capacity and precise control

It is widely used for the lifting operations in general engineering projects, such as construction sites, urban renewal, communication and transportation, ports, bridges, oilfields and mines, and other complex working environments.

Super-strong boom, excellent performance

6-Section 60.5 m U-shaped boom, 0.5 m longer than other same-class competitors in the industry; 17.5 m jib; optional 7 m extension. Our product performs better in mid-to-long arm high-frequency operation and full-extension arm limit operation.

Precise control, lift with ease

Exclusive automatic dual-pump control, adopts electric-control variable pump hydraulic system, where the displacement is automatically adjusted with changes of the lever. Average energy consumption is reduced. Handling performance and fine control is superb. The minimum stable lifting speed of boom is 2.5 m/min, whilst the minimum stable slewing speed is 0.1 °/s. Suitable for precise lifting with high efficiency.

Enormous power, driving off-road with rest

With transmission with large speed ratio and super-speed gear, and low-speed, high-torque engine as its cores, the power platform has great drive performance, high load-bearing capacity, and high stability.

Front axles are equipped with caliper disc brake which has high braking stability, fast reaction, 20-30% improved thermal brake fade resistance, and longer service life, making service brake during traveling safer.

Strong pass ability. Shorter overall height, easier to pass through height-limiting areas such as bridges, road tunnels; Maximum grade ability of 45%, easier to get out of tough potholed road areas; Multi-mode cylinder-controlled steering, more stable for high-speed traveling without swing-out, more maneuverable for low-speed traveling to go in/out jobsites, and more adaptable to narrow spaces with the use of crab steering.

Exquisite craftsmanship, comfortable experience

Dust-proof, noise-canceling, highly-sealed cabs with soft instrument panel, flame-retardant, skid-proof, easy-to-clean mat, and thermally-pressed, edge-sealed, non-woven fabric ceiling.

User-friendly detailed design, making operation more comfortable and convenient.

Quality manufacturing, reliable and durable

With high-end intelligent manufacturing process, high processing precision, quality products, and economical spare parts are ensured, whilst maintenance costs for the full cycle are lowered.

CONTENTS

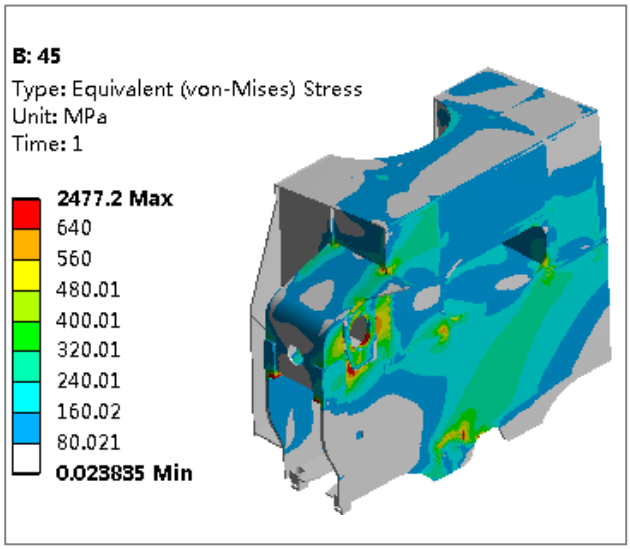
SUPER BOOM, EXCELLENT PERFORMANCE

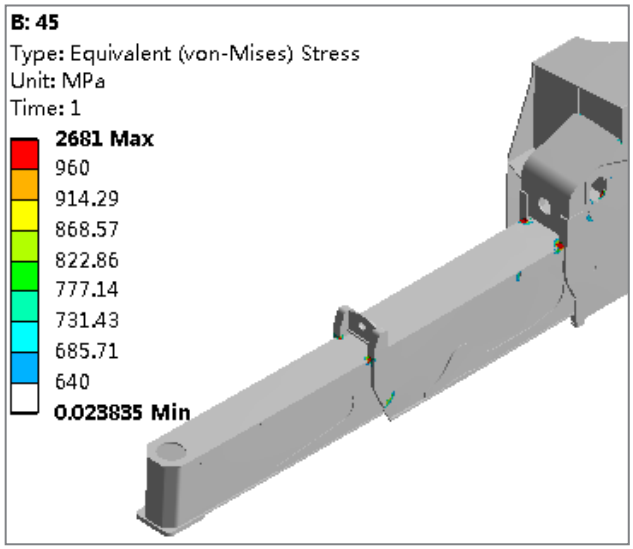
THE STRONGEST BOOM AMONG SAME-TONNAGE PRODUCTS

- 6-Section 60.5 m U-shaped boom, 0.5 m longer than other same-class competitors in the industry; 17.5 m jib; optional 7 m extension. Our product performs better in mid-to-long arm high-frequency operation and full-extension arm limit operation. It is widely used for the lifting operations in general engineering projects, such as construction sites, urban renewal, communication and transportation, ports, bridges, oilfields and mines, and other complex working environments.
- The new single-cylinder pinning telescoping system has higher reliability of telescoping. With the innovative single-plate boom head and compact boom tail structure, the boom has the largest overlapping ratio in the industry, which has greater load-bearing capacity.

LOW-PLACED H-SHAPED OUTRIGGERS, HIGHER SAFETY

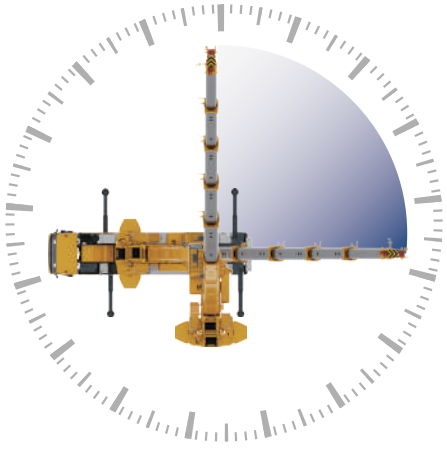
- The front outrigger beams adopt low-placed H-shaped outriggers, and optimized box structure, which have greater load-bearing capacity.



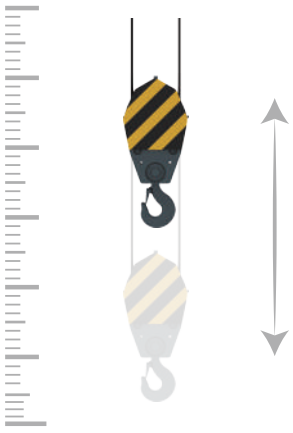


NEW ENERGY-SAVING HYDRAULIC SYSTEM

- Exclusive automatic dual-pump control, adopts electric-control variable pump hydraulic system, where the displacement is automatically adjusted with changes of the lever. Average energy consumption is reduced. Handling performance and fine control is superb. The minimum stable lifting speed of boom is 2.5 m/min, whilst the minimum stable slewing speed is 0.1 °/s. Suitable for precise lifting with high efficiency.



The minimum stable slewing speed is 0.1°/s



The minimum stable lifting speed

(At the drum) **2.5 m/min**

ENORMOUS POWER, DRIVING OFF-ROAD WITH REST

INNOVATIVE LOW-SPEED HIGH-TORQUE DRIVETRAIN

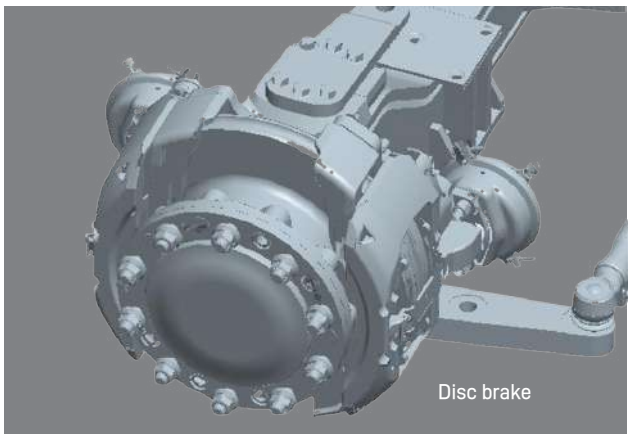
- With transmission with large speed ratio and super-speed gear, and Weichai 257 kw engine as its cores, the power platform has great drive performance, high load-bearing capacity, and high stability.

69.1 T HEAVY-LOAD JOBSITE TRANSFER

- With all boom sections, 60 t hook-block, 7 t hook block, auxiliary sheave, jib, auxiliary winch, 19.8 t counterweight, spare tire & its bracket, and outrigger float carried on board, the transfer is highly efficient and economical.

DISC BRAKE FOR FRONT AXLES

- Front axles are equipped with caliper disc brake which has high braking stability, fast reaction, 20-30% improved thermal brake fade resistance, and longer service life, making service brake during traveling safer.



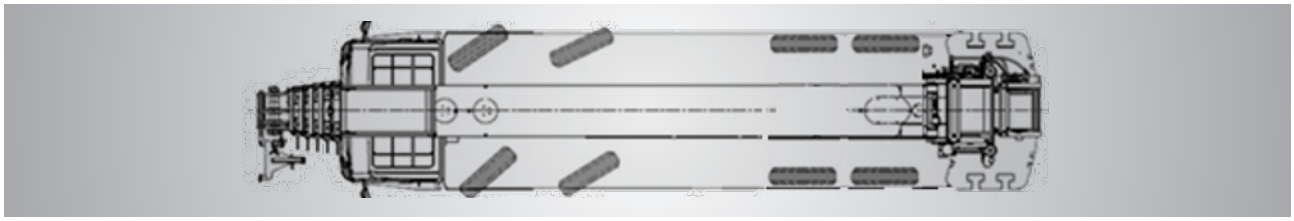
Disc brake

STRONG PASS ABILITY

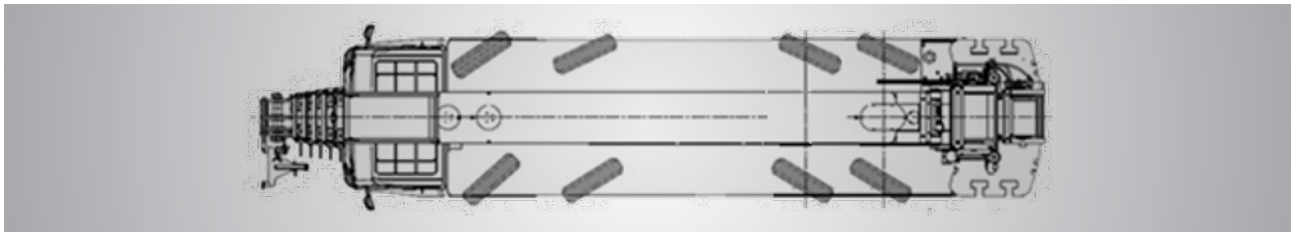
- Shorter overall height, advantageous to pass through height-limiting areas such as bridges, and road tunnels.
- The minimum turning radius ≤ 19 m, smallest in the industry, maneuverable for steering in narrow roads.
- Maximum grade ability is 45%, easier to get out of tough potholed road areas.

MULTI-MODE CYLINDER-CONTROLLED STEERING

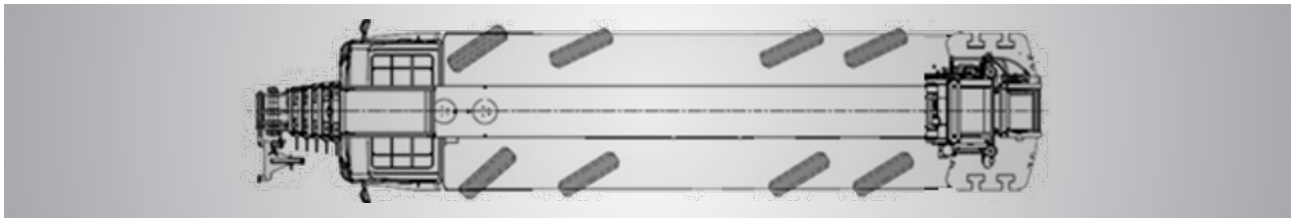
- Able to switch to all-axle steering or rear axle locked steering, more stable for high-speed traveling without swing-out, more maneuverable for low-speed traveling to go in/out jobsites, and more adaptable to narrow spaces with the use of crab steering.



REAR WHEEL LOCKED STEERING MODE



ALL-WHEEL STEERING MODE



CRAB WALK STEERING MODE

EXQUISITE CRAFTSMANSHIP COMFORTABLE EXPERIENCE

Dust-proof, noise-canceling, highly-sealed cabs with soft instrument panel, flame-retardant, skid-proof, easy-to-clean mat, and thermally-pressed, edge-sealed, non-woven fabric ceiling.

COMFORTABLE CABS

①	Mechanical shock-absorbing seat for main driver	Leather + breathable mesh fabric seat material.
②	HVAC	It has face and foot blowing, defrosting and defogging functions, improving cooling and heating efficiency.
③	Other humanized configuration	Electric wipers, electric window lifters.

OPERATOR'S CAB

①	Adjustable electric heated seat	Leather + breathable mesh fabric seat material.
②	Silicone buttons	Three control areas for safety protection, lifting operation and operating environment contribute to convenient control.
③	T3 air conditioning	Fast cooling speed.
④	Operator's cab can be tilted up or down by 20°	Clearer lifting view.
⑤	Other humanized configuration	Sun screens for cab windows whilst double-layer sun screen for the roof window. Sliding door, adaptable to narrow spaces.

EXQUISITE CRAFTSMANSHIP, COMFORTABLE EXPERIENCE

USER-FRIENDLY DESIGN FOR CONVENIENT USE

- Well-designed access ensures convenient to climb on and off.
- Aluminum alloy lentil pattern deck ensures an excellent anti-slip performance.

XCMG PRODUCT, QUALITY ENSURED

- With high-end intelligent manufacturing process, high processing precision, quality products, and economical spare parts are ensured, whilst maintenance costs for the full cycle are lowered.

HIGHLY-SEALED TELESCOPING COUNTERBALANCE VALVE

- There is only 1 metal seal. Inner leakage is small. Seal performance is improved by more than 60%. Operation safety is improved.

LONG SERVICE LIFE OF DOOR LOCK

- 100,000 fatigue tests and 50,000 reinforced shock tests have been conducted, resulting in smoother switches, extended lifespan.

IMPACT-RESISTANT EXPANSION TANK

- Stainless steel is adopted for the expansion tank, which is resistant to impact, deformation and aging.

GREAT PERFORMANCE OF HEAT DISSIPATION

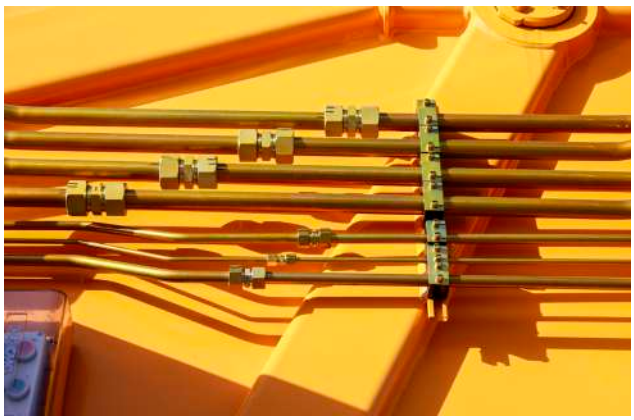
- The technology of independent cooling for hydraulic motor makes the thermal balance temperature of the system below 80°C , so the crane can work continuously in high temperature environments, ensuring safe and reliable lifting operations.

ALUMINUM ALLOY FUEL TANK

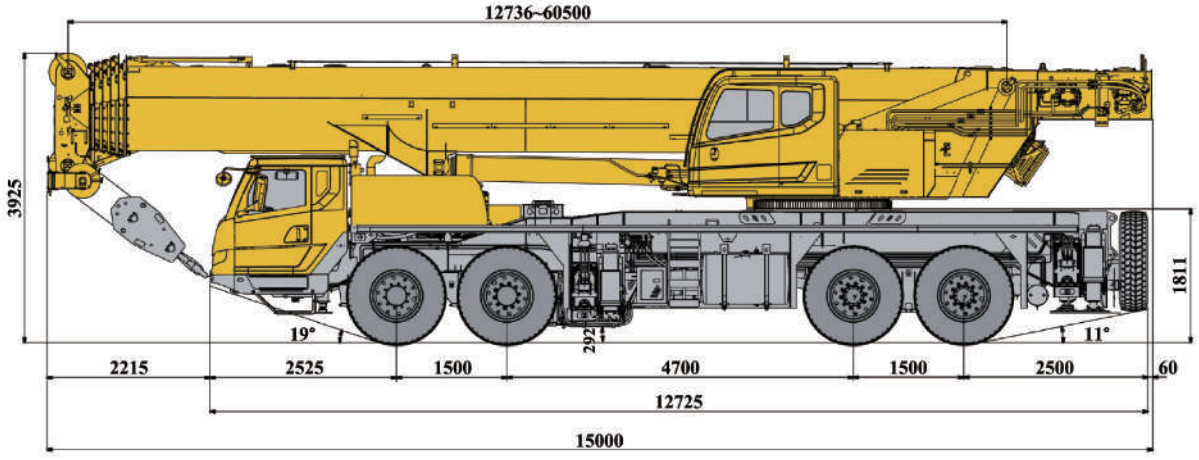
- 470L large-capacity aluminum alloy fuel tank, corrosion-resistant, aging-resistant, strong cruising capability.

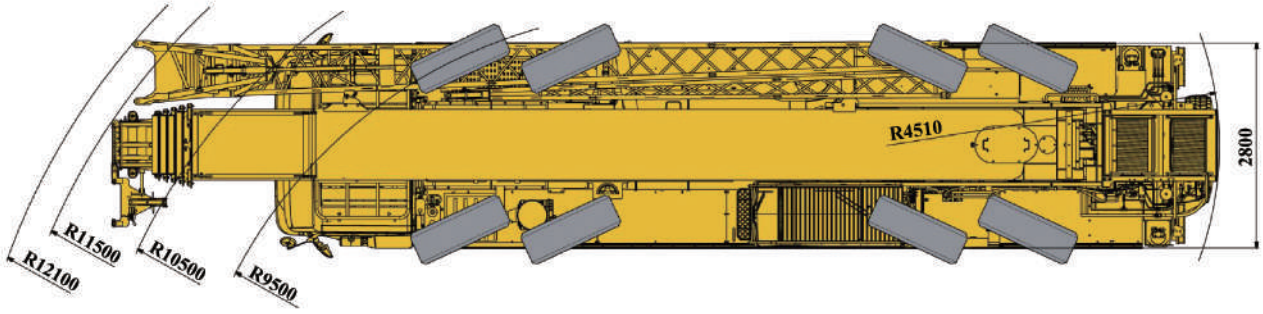
WATER-PROOF, HEAT-PROOF PIPELINES

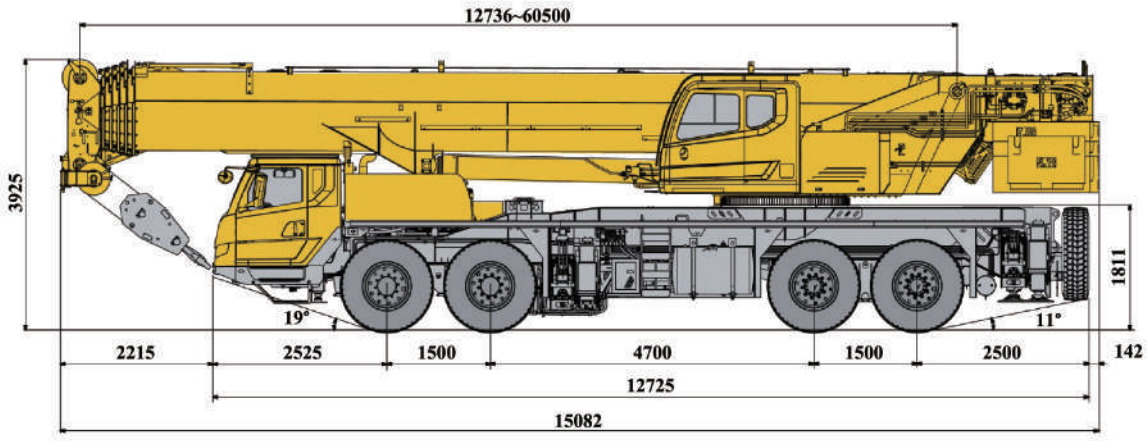
- Fully-enclosed water-proof wiring harness. Harness branch is protected by a metal splitter made of closed corrugated pipe resistant to 150°C .



DIMENSIONS


12736~60500
3925
1811
19°
11°
292
2215
2525
1500
4700
1500
2500
60
12725
15000


R4510
2800
R11500
R10500
R12100
R9500


12736~60500
3925
1811
19°
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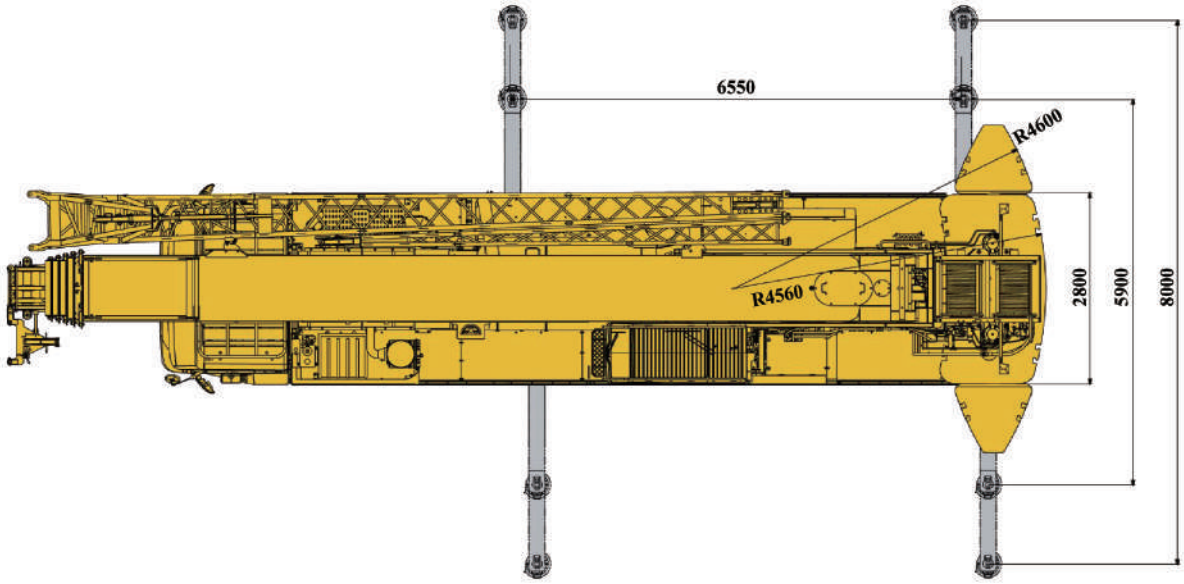
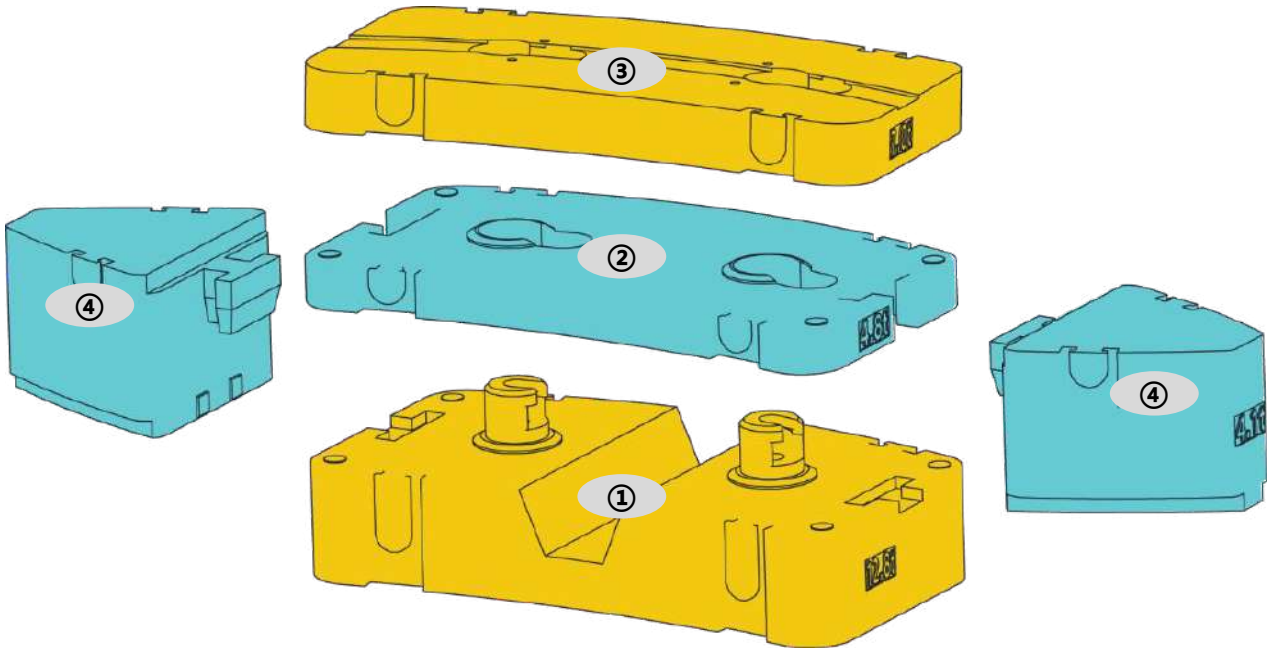
2215
2525
1500
4700
1500
2500
142
12725
15082


6550
R4600
R4560
2800
5900
8000

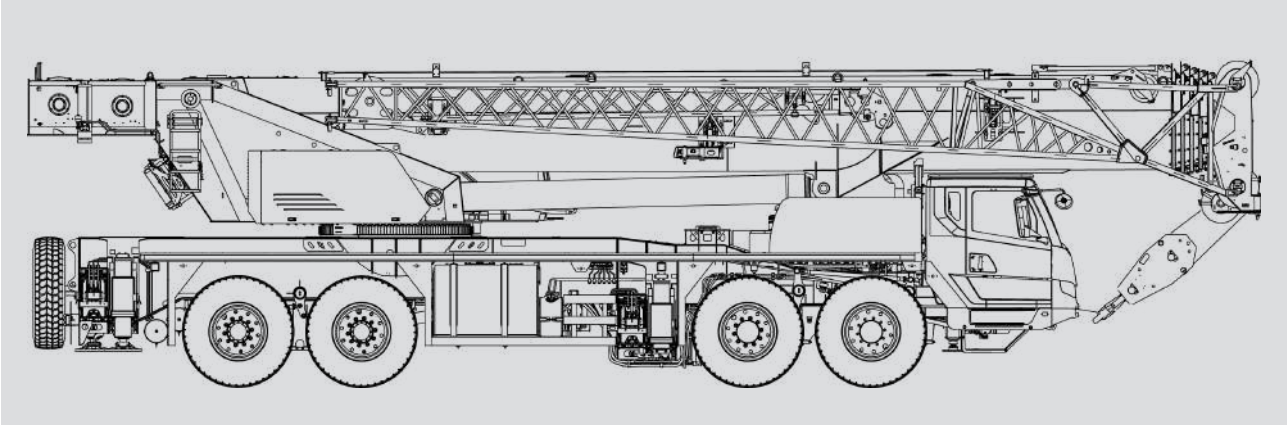
COUNTERWEIGHT



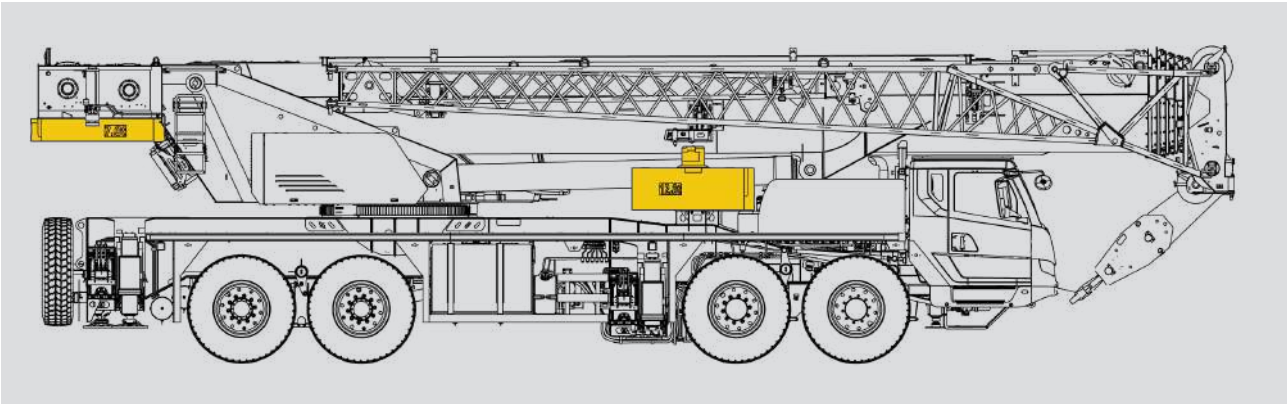
	①	②	③	④
Dimensions (L×W×H) (mm)	2750×1536×795	2750×1536×236	2750×1536×287	1215×1116×765
Weight (t)	12.8	4.8	7	4.1

OPERATION MODE	32.8 T	24.6 T	19.8 T	17.6 T	12.8	7 T	0 T
Combinations	① + ② + ③ + ④ ×2	① + ② + ③	① + ③	① + ②	①	③	——

AXLE	1	2	3	4	TOTAL WEIGHT
t	12.4	12.4	12.25	12.25	49.3[1)]
t	16.1	16.1	18.45	18.45	69.1[2)]



1) 49.3 t Road travel configuration:
Superstructure: With 60 t hook block, jib, auxiliary winch, auxiliary sheave; Without counterweight, 7 t hook block;
Chassis: With spare tire & its bracket, outrigger floats.
Maximum travel speed: 48 km/h; Drive/steering type: 8×4×8; Tire specifications: 385/95 R25; Overall dimensions: 15000×2800×3925 mm.



2) 69.1 t Short-distance jobsite transfer configuration:
Superstructure: Adding 19.8 t counterweight to the road travel configuration of 49.3 t; Chassis: The same as the configuration of 49.3 t.
Maximum travel speed: 20 km/h; Drive/steering type: 8×4×8; Tire specifications: 385/95 R25; Overall dimensions: 15082×2800×3925 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 dimension: φ 450 mm; Reaction force of outrigger at max. lifting load: front outrigger: 780 kN; rear outrigger: 640 kN.
Engine	WP10HG350E670, in-line, water cooled, electric control diesel engine, made by Weichai. Rated power: 257 kW / 1900 RPM; maximum torque 1700 Nm/ 1100 RPM ~ 1400 RPM; Compliant with BSV emission standard. Fuel tank capacity: 470 L; AdBlue/DEF tank capacity: 34.3 L; Engine displacement: 9.5 L.
Transmission	FAST mechanical transmission, 9 forward gears and 1 reversing gear, with synchronizer.
Axle	High-strength axles. All axles are for steering, whilst 3rd and 4th axles are for drive. Drive/steering type: 8×4×8.
Suspension	Leaf spring suspensions are adopted for the front and rear suspensions.
Tire	8 tires and 1 spare tire; 1st, 2nd, 3rd and 4th axles are equipped with single tires. Tire specifications: 385/95 R25.
Braking system	Service brake: Dual-circuit air pressure brake, acting on all wheels. Parking brake: Spring applied brake, acting on the wheels of the 2nd, 3rd and 4th axles. Auxiliary brake: Engine in-cylinder retarder brake.
Steering	All axles are for steering; 1st and 2nd axles are mechanically steered + hydraulic booster system; 3rd and 4th axles are steered through cylinder control.
Driver's cab	Equipped with wide-view windshield with safety glass, electric wiper, electric glass lifter, audio system, and HVAC that is able to blow air toward face & feet, defrost and defog. Mechanical shock-absorbing seat is adopted for the driver whilst single seat for the co-driver.
Electrical system	24 V DC, two sets of 12 V battery in series. Generator, 28 V - 120 A.

	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; Slewing is driven by closed pump; Proportional solenoid directional control valve is adopted; And air-cooled hydraulic oil cooler is equipped. Hydraulic oil tank capacity: 695 L.
Operating method	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 counterbalanced valve and a grooved drum equipped. Main winch and auxiliary winch are independent from each other.
Slewing system	The single-row, four-point contact-ball external slewing bearing, with single slewing mechanism and constant-closed brake, driven by a planetary gear reducer that is driven by a hydraulic motor, can continuously slew 360°. Power control and free slewing function as well as stepless speed regulation are available.
Operator's cab	Steel cab able to tilt up to 20°, with a full-view windshield, safety glass, sliding door, adjustable seat with electric heating function, wiper, roof protective grilles, pull-out step, LMI, human-machine interaction system control panel, electric armrest, engine acceleration pedal, engine starter switch, T3 air conditioning, 2 kg fire extinguisher, sun screens for front, rear and side windows, and double-layer sun screen for the roof window.
Safety devices	Hydraulic counterbalance valve, hydraulic relief valve, double-way hydraulic lock, LMI, lowering limiter, anti-two block, anemometer, tri-colored light bar, slewing warning light.
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 32.8 t (including optional 8.2 t). 7 kinds of combination: 32.8 t, 24.6 t, 19.8 t, 17.6 t, 12.8 , 7 t, 0 t.
Hook block	60 t hook block, 7 t hook block.
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.
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.
Fixed 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 / 17.5 m.
Auxiliary sheave	Installed at the boom top, used for single line operation. Its lifting performance is the same as that for boom, but the maximum lifting load could not exceed 6.5 t.

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

TABLE OF MAIN TECHNICAL PARAMETERS

OPTIONAL EQUIPMENT	COMPONENT DESCRIPTION
Boom extension	One-section lattice welded structure, attached to boom head. Boom extension length: 7 m.
HVAC	HVAC in operator's cab.
Counterweight	4.1 t × 2.
Hook block	80 t hook block.

DIMENSIONS	UNIT	PARAMETERS
Dimensions (L×W×H)	mm	15000×2800×3925
Axle spacing	mm	1500+4700+1500
Track (front/rear)	mm	2400/2336
Front overhang / rear overhang	mm	2525/2500
Front extension/rear extension	mm	2215/60

TRAVEL	UNIT	PARAMETERS
Maximum travel speed	km/h	48
Minimum stable travel speed	km/h	2.5
Minimum turning diameter	m	≤19
Minimum turning diameter of boom head	m	≤24.2
Minimum ground clearance	mm	292
Approach angle	°	19
Departure angle	°	11
Braking distance (initial speed at 38.4 km/h)	m	≤15.2
Maximum grade ability	%	45
Fuel consumption per 100 km	L	45

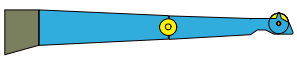
MAIN PERFORMANCE		UNIT	PARAMETERS
Minimum rated working radius		m	3
Turning radius at turntable tail	At counterweight	mm	4600
	At auxiliary winch	mm	4510
Maximum load moment	Base boom	kN.m	3528
	Fully-extended boom	kN.m	2274
	Fully-extended boom + jib	kN.m	1679
Outrigger span (fully- / half-extended)	Longitudinal	m	6.55
	Lateral	m	8/5.9
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

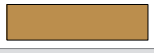
WORKING SPEED			UNIT	PARAMETERS
Time for raising boom			s	≤55
Time for fully extending the boom			s	≤490
Maximum slewing speed			r/min	≥2
Time for extending and retracting outriggers	Outrigger beams	Retracting	s	≤40
		Extending	s	≤40
	Outrigger jacks	Retracting	s	≤50
		Extending	s	≤50
Lifting speed (single line, no load)	Main winch system		m/min	≥145
	Auxiliary winch system		m/min	≥90

NOISE	UNIT	PARAMETERS
Exterior noise level	dB(A)	≤119.3
Exterior noise level when accelerating	dB(A)	≤119.3
Noise level at seated position	dB(A)	≤89

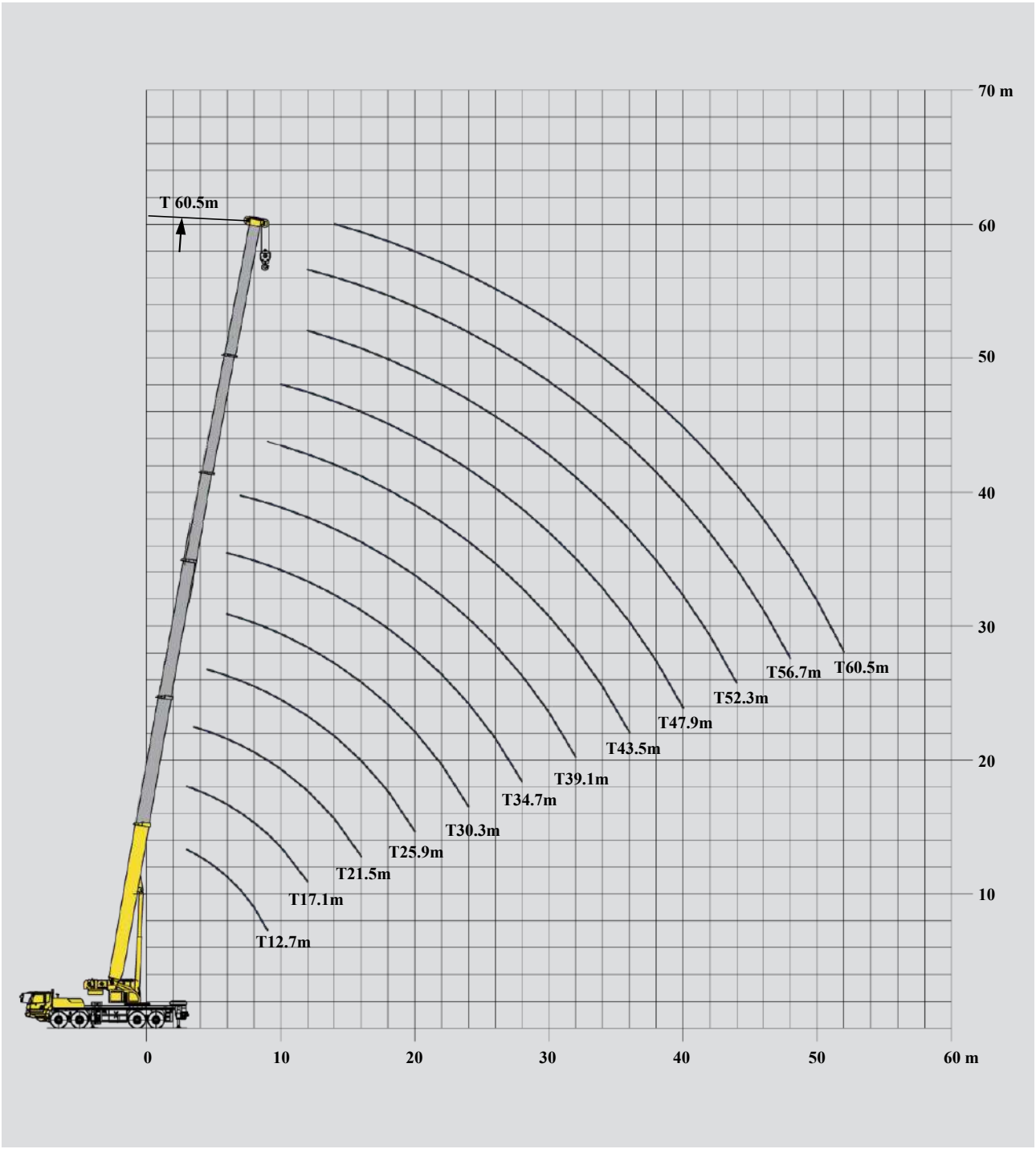
BOOM / JIB COMBINATIONS

T: 12.7-60.5 m	T: 52.3-60.5 m F: 10.5/17.5 m	T: 60.5 m V: 7 m F: 17.5 m

FIXED JIB	
Fixed jib - 10.5 m	
Fixed jib - 17.5 m	
Fixed jib - 24.5 m	

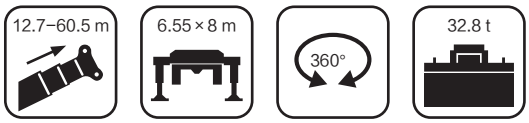
COMPONENTS	STRUCTURE	LENGTH (M)
Connecting bracket		1.16
Boom extension		7
1st jib section		9.34
2nd jib section		7

BOOM


70 m
60
50
40
30
20
10
T 60.5m
T56.7m
T60.5m
T52.3m
T47.9m
T43.5m
T39.1m
T34.7m
T30.3m
T25.9m
T21.5m
T17.1m
T12.7m
0
10
20
30
40
50
60 m

LOAD CHARTS

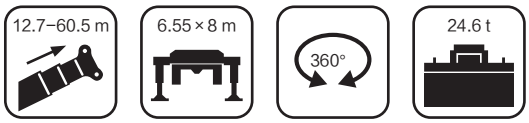
T 12.7-60.5M



	12.7	17.1	21.5	25.9	30.3	34.7	39.1	43.5	47.9	52.3	56.7	60.5
3	110*											
3	88	76										
3.5	80	74	68									
4	78	72	67.5									
4.5	74	69	65	54.4								
5	68	66.5	62	54.4								
6	60	58	56.8	53	47.6	40.8						
7	49	49	49	49	47	40.8	34					
8	43.5	43.5	43.5	43.5	43	40	34					
9	38	38	38	38	38	38	34	27.2				
10		34.5	34.5	34.5	34.5	34.5	32	27.2	25.5			
12		29	29	29	29	29	28	26.1	23.2	19.6	16	
14			24.5	24.5	24.5	24.3	25	23.3	21	18.7	15.6	13
16			21.5	21.5	21.5	21.3	20	20.6	19	17.1	15.3	13
18				18	17.9	17.7	18	17.5	17.1	15.4	14	12.6
20				15.2	15.3	14.9	15.3	15.6	14.9	13.9	12.6	11.6
22					13.1	12.7	13.1	13.4	13.2	12.5	11.4	10.4
24					11.3	11.5	11.3	11.7	11.7	11.3	10.5	9.4
26						10.7	10.1	10.7	10.5	10.2	9.6	8.6
28						9.6	9.3	9.5	9.2	9	8.5	8
30							8.6	8.4	8.2	7.9	7.6	7.3
32							7.7	7.6	7.3	7.1	6.7	6.7
34								6.8	6.5	6.3	5.9	6
36								6.1	5.9	5.6	5.3	5.3
38									5.3	5	4.7	4.7
40									4.7	4.5	4.1	4.2
42										4.1	3.7	3.8
44										3.6	3.2	3.3
46											2.8	2.9
48											2.5	2.5
50												2.2
52												1.9

Note: * Capacity class

T 12.7-60.5M

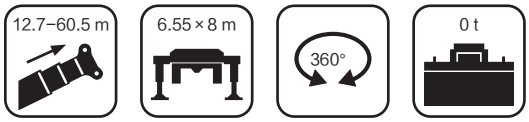


	12.7	17.1	21.5	25.9	30.3	34.7	39.1	43.5	47.9	52.3	56.7	60.5
3	110*											
3	88	76										
3.5	80	74	68									
4	78	72	67.5									
4.5	74	69	65	54.4								
5	68	66.5	62	54.4								
6	60	58	56.8	52.5	47.6	40.8						
7	49	49	49	49	47	40.8	34					
8	43.5	43.5	43.5	43.5	43	40	34					
9	37	38	38	38	38	38	34	27.2				
10		34	34.5	34.5	34.5	34.5	32	27.2	25.5			
12		26.4	28.8	29	28.9	28.3	28	26.1	23.2	19.6	16	
14			22.4	22.6	22.4	22.1	22.5	22	21	18.7	15.6	13
16			18	18.2	18	17.8	18.2	18.4	17.8	17.1	15.3	13
18				15.7	14.9	14.8	15	15.3	15.3	14.6	14	12.6
20				13.2	12.4	13.6	12.9	13.3	13.1	12.8	12.4	11.6
22					11.3	11.7	11.6	11.4	11.2	10.9	10.5	10.4
24					10	10.1	10	9.9	9.7	9.4	9	9.1
26						8.9	8.8	8.7	8.4	8.1	7.8	7.8
28						7.8	7.7	7.6	7.3	7.1	6.7	6.8
30							6.8	6.7	6.5	6.2	5.8	5.9
32							6	5.9	5.7	5.4	5.1	5.1
34								5.3	5	4.8	4.4	4.5
36								4.7	4.4	4.2	3.8	3.9
38									3.9	3.7	3.3	3.4
40									3.5	3.2	2.9	2.9
42										2.8	2.4	2.5
44										2.4	2	2.1
46											1.7	1.7
48											1.4	1.4
50												1.2

Note: * Capacity class

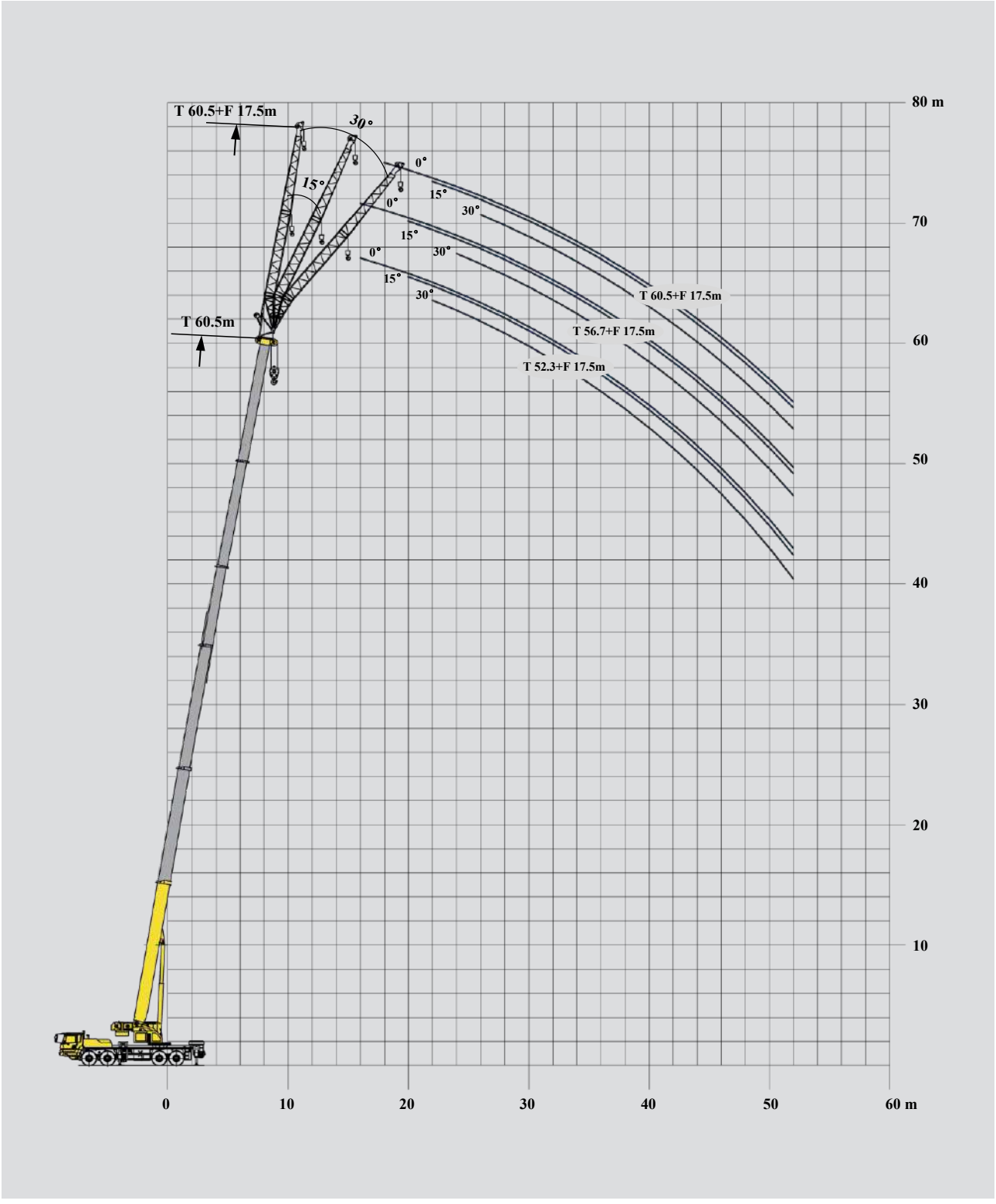
WORKING RANGE DIAGRAM

T 12.7-60.5M



	12.7	17.1	21.5	25.9	30.3	34.7	39.1	43.5	47.9	52.3	56.7	60.5
3	80	80										
3.5	80	80	68									
4	78	78	67.5									
4.5	72	72	65	54.4								
5	64.5	64.5	62	54.4								
6	50	54.1	53.3	52.5	47.6	40.8						
7	34	37.3	38.7	39	38.7	38.2	34					
8	25	27.8	29	29.3	29	28.6	29.2					
9	19	21.7	23	24	23.5	24.4	23.8	23.8				
10		17.2	18.7	19.5	20	20	19.5	19.3	18.9			
12		11.3	12.5	13.3	13.7	13.8	13.3	13.2	12.8	12.4	12	
14			9	9.7	10	10.1	9.8	9.6	9.3	9	8.6	8.6
16			6.7	7.3	7.5	7.7	7.4	7.2	6.9	6.7	6.3	6.3
18				5.6	5.9	5.9	5.7	5.6	5.3	5	4.6	4.6
20				4.4	4.6	4.7	4.5	4.4	4.1	3.8	3.4	3.4
22					3.6	3.7	3.5	3.4	3.1	2.9	2.5	2.5
24					2.8	2.9	2.8	2.7	2.4	2.2	1.7	1.7

FIXED JIB

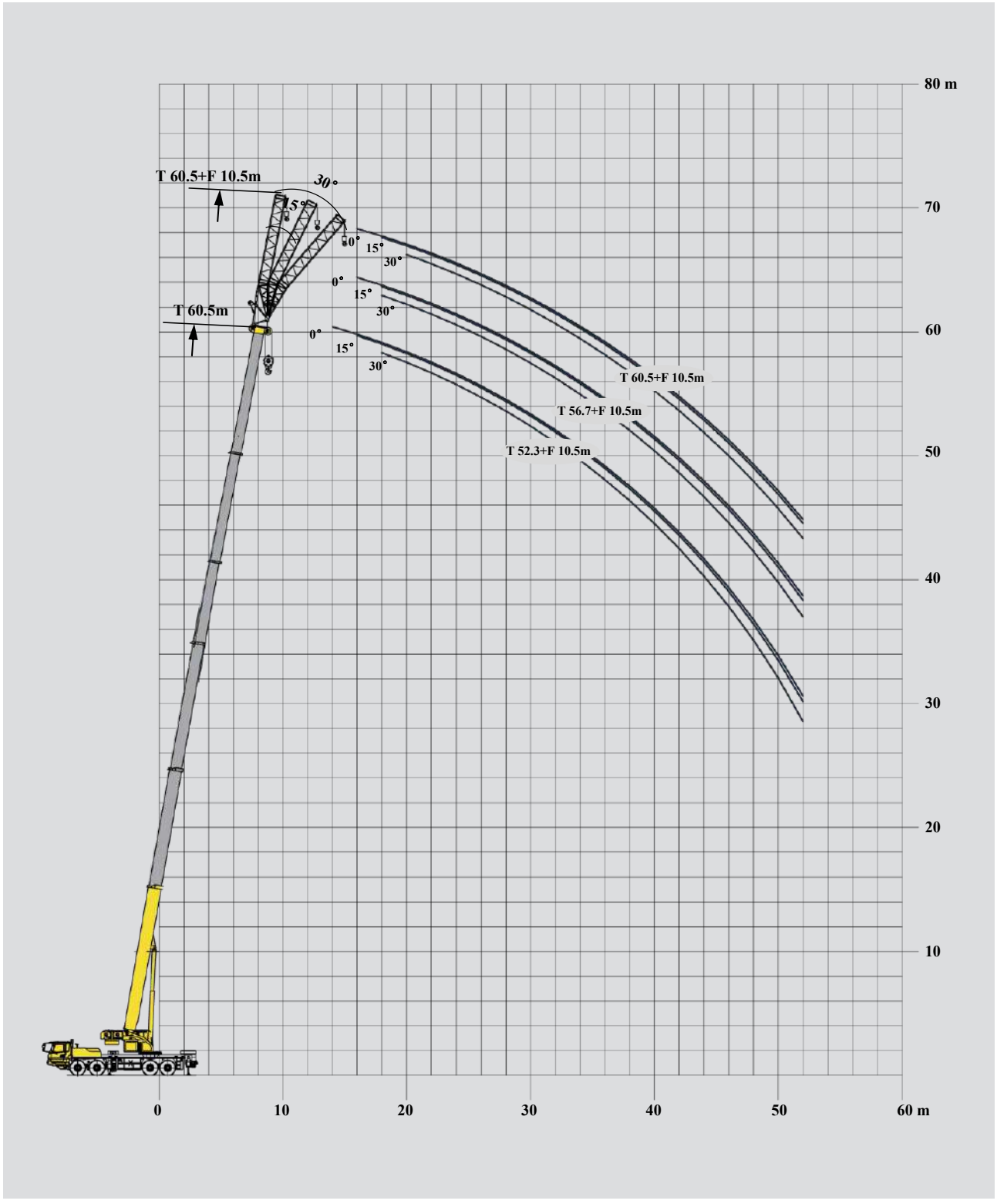

T 60.5+F 17.5m
30°
15°
0°
T 60.5m
0°
15°
30°
15°
0°
30°
15°
0°
30°
T 60.5+F 17.5m
T 56.7+F 17.5m
T 52.3+F 17.5m
80 m
70
60
50
40
30
20
10
0
10
20
30
40
50
60 m

LOAD CHARTS

F 17.5 M

	52.3			56.7			60.5		
	17.5								
	0°	15°	30°	0°	15°	30°	0°	15°	30°
16	4.8			4.4					
18	4.6			4.3			4.1		
20	4.5	3.3		4.2	3.3		4.0		
22	4.2	3.2	2.2	4.1	3.2		3.9	3.0	
24	4.0	3.0	2.2	4.0	3.1	2.3	3.8	2.9	
26	3.9	2.9	2.2	3.8	3.0	2.3	3.7	2.9	2.4
28	3.8	2.8	2.2	3.6	2.8	2.3	3.6	2.9	2.3
30	3.7	2.8	2.2	3.5	2.7	2.2	3.5	2.8	2.2
32	3.6	2.7	2.2	3.4	2.7	2.1	3.3	2.7	2.2
34	3.5	2.6	2.2	3.3	2.6	2.1	3.2	2.6	2.2
36	3.3	2.6	2.1	3.2	2.6	2.1	3.1	2.6	2.1
38	3.2	2.5	2.0	3.0	2.5	2.0	3.0	2.4	2.1
40	3.1	2.4	1.9	3.0	2.5	2.0	2.9	2.5	2.1
42	3.0	2.3	1.9	3.0	2.5	2.0	2.9	2.4	1.9
44	2.8	2.3	1.8	2.9	2.4	1.9	2.8	2.3	1.9
46	2.8	2.3	1.8	2.8	2.3	1.9	2.8	2.3	1.9
48	2.7	2.2	1.8	2.5	2.3	1.8	2.5	2.2	1.8
50	2.6	2.1	1.8	2.3	2.2	1.8	2.2	2.2	1.8
52	2.3	2.1	1.8	2.0	2.2	1.8	2.0	2.2	1.8
Code	12222			22222			33333		

FIXED JIB

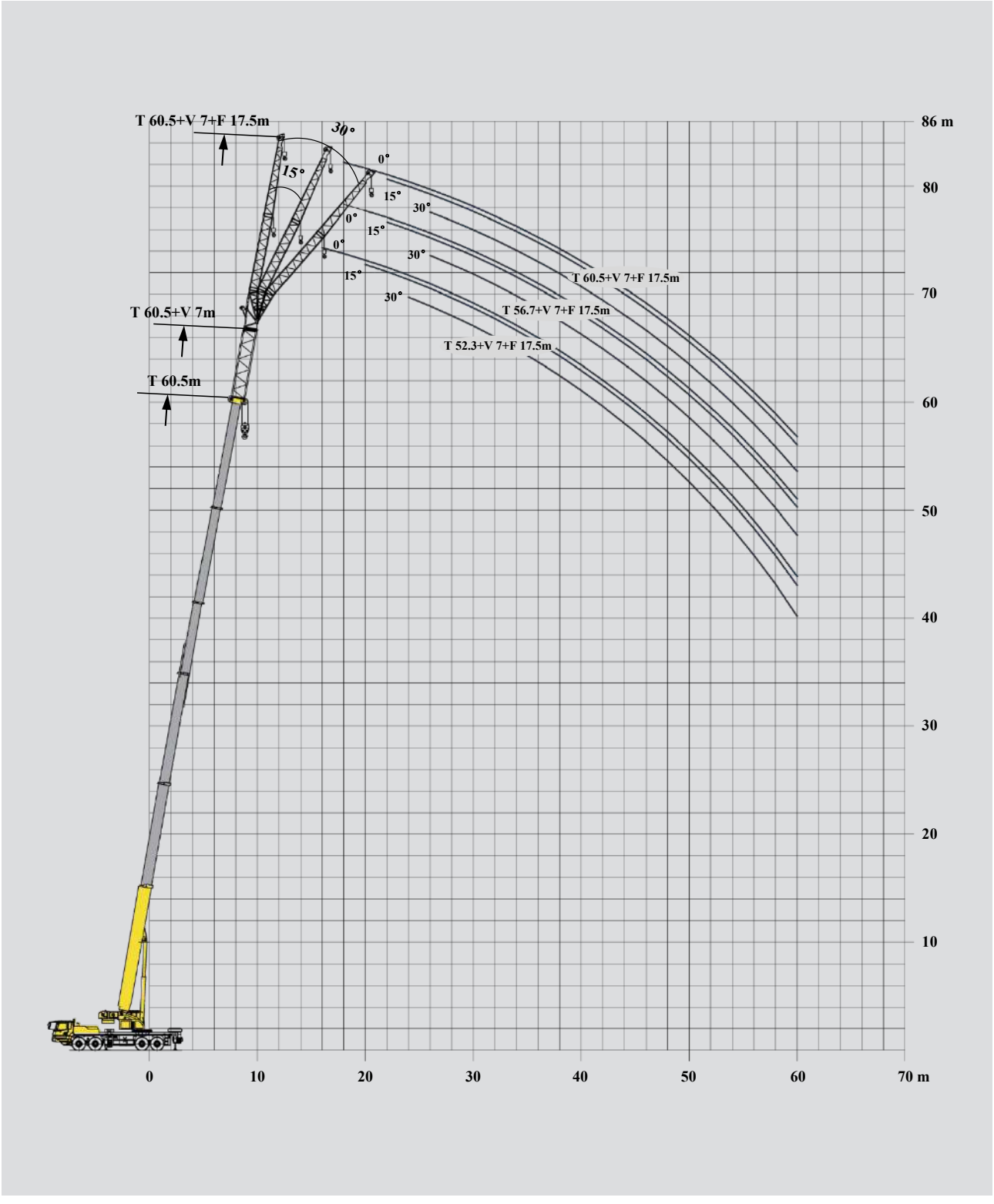

T 60.5+F 10.5m
30°
15°
0°
T 60.5m
0°
15°
30°
0°
15°
30°
0°
15°
30°
T 60.5+F 10.5m
T 56.7+F 10.5m
T 52.3+F 10.5m
80 m
70
60
50
40
30
20
10
0
10
20
30
40
50
60 m

LOAD CHARTS

F 10.5 M

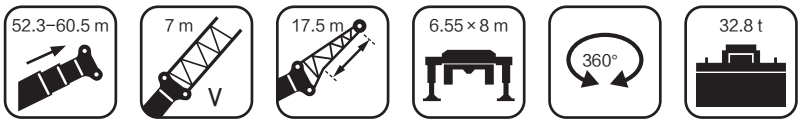
	52.3			56.7			60.5		
	10.5								
	0°	15°	30°	0°	15°	30°	0°	15°	30°
14	6.5								
16	6.5	6.5		6.5			6.5		
18	6.5	6.2	4.8	6.2	5.7	4.5	6.5	5.9	
20	6.5	6.1	4.7	5.9	5.6	4.4	6.3	5.8	4.5
22	6.5	5.9	4.7	5.8	5.3	4.6	6.2	5.6	4.5
24	6.4	5.8	4.6	5.6	5.1	4.5	5.9	5.5	4.4
26	6.1	5.4	4.5	5.3	5.0	4.4	5.8	5.4	4.3
28	5.9	5.3	4.4	5.1	4.8	4.4	5.7	5.3	4.3
30	5.6	5.1	4.4	4.8	4.6	4.3	5.5	5.1	4.3
32	5.4	5.0	4.3	4.7	4.6	4.3	5.3	5.0	4.2
34	5.3	4.9	4.2	4.6	4.5	4.2	5.0	4.9	4.1
36	5.0	4.8	4.3	4.4	4.3	4.2	4.6	4.6	4.1
38	4.5	4.6	4.1	4.1	4.2	4.1	4.1	4.2	4.0
40	4.1	4.2	4.0	3.7	3.9	4.0	3.7	3.9	3.9
42	3.6	3.8	3.9	3.3	3.4	3.6	3.2	3.4	3.6
44	3.2	3.4	3.5	2.9	3.1	3.2	2.9	3.1	3.2
46	2.9	3.1	3.2	2.6	2.7	2.8	2.5	2.7	2.8
48	2.6	2.7	2.8	2.3	2.4	2.5	2.3	2.3	2.4
50	2.3	2.4	2.4	2.0	2.1	2.2	2.0	2.1	2.2
Code	12222			22222			33333		

BOOM EXTENSION

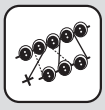


LOAD CHARTS

V 7 M



	52.3+7			56.7+7			60.5+7		
	17.5								
	0°	15°	30°	0°	15°	30°	0°	15°	30°
16	3.1								
18	3.1			2.9			2.6		
20	3.1	2.6		2.9			2.6		
22	3.1	2.5		2.8	2.5		2.6	2.5	
24	3.1	2.3	1.4	2.8	2.4		2.6	2.4	
26	3.1	2.2	1.4	2.8	2.3	1.4	2.6	2.3	1.5
28	3.1	2.1	1.4	2.8	2.1	1.3	2.6	2.2	1.4
30	3.1	2.0	1.3	2.8	2.0	1.3	2.6	2.1	1.3
32	3.1	1.9	1.3	2.8	1.9	1.3	2.6	2.0	1.3
34	3.0	1.7	1.2	2.8	1.8	1.2	2.6	1.8	1.3
36	2.9	1.6	1.2	2.8	1.8	1.1	2.6	1.8	1.1
38	2.8	1.6	1.2	2.8	1.7	1.1	2.6	1.8	1.1
40	2.6	1.5	1.1	2.8	1.5	1.1	2.6	1.7	1.1
42	2.5	1.5	1.1	2.7	1.5	1.1	2.6	1.6	1.1
44	2.4	1.4	1.1	2.6	1.5	1.0	2.6	1.5	1.0
46	2.3	1.4	1.0	2.5	1.4	1.0	2.6	1.5	1.0
48	2.1	1.3	1.0	2.3	1.4	1.0	2.4	1.5	1.0
50	2.0	1.3		2.2	1.4	1.0	2.2	1.4	1.0
52	1.9	1.3		2.1	1.3		2.0	1.4	1.0
Code	12222			22222			33333		

	Superstructure
	Rated lifting load
	Counterweight
	Slewing radius of variable-position counterweight
	Hook block
	Parts of line
	Boom section combination
	Wind speed
	Configuration
	Optional equipment
	Wire rope length
	Wire rope diameter

	Boom
	Boom length
	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

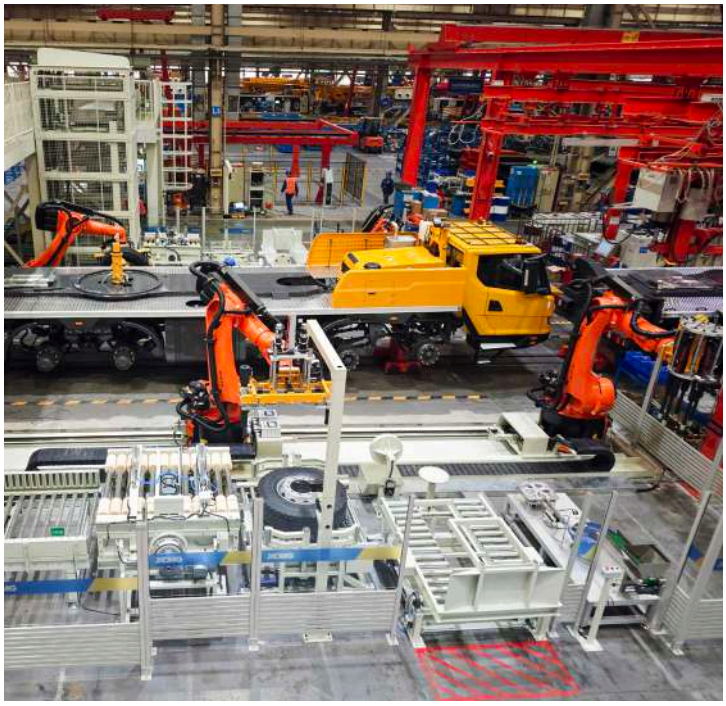
DESCRIPTION OF SYMBOLS

	Breaking force of wire rope
	Maximum working speed
	Main winch
	Auxiliary winch
	Chassis
	Outrigger span
	Tire
	Axle load
	Grade ability
	Travel speed
	Luffing

	Maximum lifting height
	Maximum working radius
	Super lift
	Wind power jib
	Telescoping
	Slewing
	360° slewing
	360° slewing with the 5th jack down
	Side and rear operation
	Operation over front or over rear
	EN 13000 standard

INTELLIGENT QUALITY MANUFACTURING

- Driven by digital models, we have implemented leading intelligent quality manufacturing technologies, integrating process simulation and simulation technology, creating a high-end manufacturing platform that combines manufacturing and process.



INTELLIGENT ASSEMBLING

SPRAYING PROCESS OF ROBOTS

DIGITIZED CORE COMPONENTS WORKSHOP

UNMANNED AUTOMATIC WELDING

DIGITIZED STRUCTURE WORKSHOP

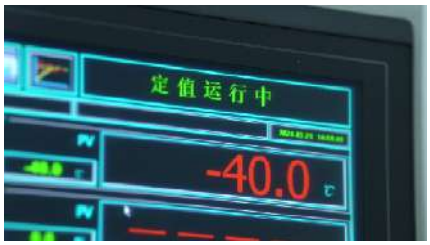
SAFE AND RELIABLE

G-SAFE LIFE CYCLE SAFE QUALITY

PARTS AND COMPLETE MACHINE TESTING

- Each technology and component is restructured to meet the most stringent quality inspection standards.
- Each complete machine undergoes rigorous testing and a large number of experiments to ensure reliable operation in various complex environments.

OVER 2,000 COMPONENTS OF 123 KINDS UNDER 5 CATEGORIES



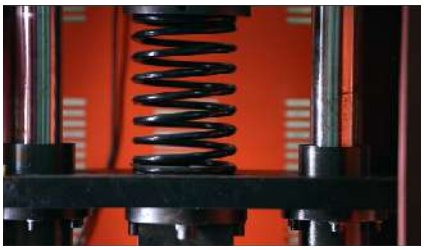
HMI display
Low-temperature performance test under -40℃

Length measurement sensor
48-hour rain-proof test

Panel buttons
1.2 million times reliability test

Hydraulic oil pump
Low-temperature performance test under -40℃

Telescoping mechanism
Smoothness test



Telescoping mechanism
Smoothness test

178 FULL-SCALE LIMIT TESTS ON THE COMPLETE MACHINE

Passability

Climbing & Hill holding

Dynamic & Static lifting

NOTES

- The document is intended as reference only. It is only a guide and should not be used to operate the crane. See product manuals for correct operation instructions.
- 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.
- The working radius is the horizontal gravity center distance of the load from the rotational axis of the crane superstructure measured at the ground.
- 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.
- 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/m^2).

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