XCMG

Crane Connection PTY LTD

TRUCK CRANE

XCT30G4-1AU

TRAVEL WITHOUT LIMITS

30 t | 36 m | 35 m | 36.2 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-300 t Truck Crane
- 40 t-4000 t All Terrain Crane
- 13 t-150 t Rough Terrain Crane

CRAWLER CRANE

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

Economical operation

New electro-hydraulic energy-saving control technology: significant reduction in average oil consumption for superstructure operations.

Low-speed large-torque drivetrain technology 2.0: Fuel consumption during travel is reduced; Power performance is improved dramatically; Acceleration is strong; And grade ability is improved by 45%.

Efficient lifting

Four-section U-shaped boom of 36 m, fixed jib of 8.3 m, with excellent boom performance, and boom has a 0° lifting operation mode, covering a wide range of operation modes. It is highly adaptable to high-frequency construction scenarios such as infrastructure construction, housing construction, forestry, and factory loading and unloading, with high operational efficiency.

Precise control

Full operation modes, precise and smooth control technology: improved, smooth and precise control.

Intelligence-powered premium experience

Exquisite appearance design: Provide ultimate visual experience and delicate craftsmanship.

G-star cab: Brand-new two cabs grant full comfort.

User-friendly design for maintenance and service: Maintenance and service is time-saving and energy-saving.

Safe and reliable

Full life cycle structural safety technology: More reasonable structural layout and safe operation.

G-Electrical System (GEC): Safe handling, reliable circuit connection, and stable functions.

Smart and quality manufacturing: 30 years of welding craftsmanship; Top-notch painting process.

178 tests: 178 full-scale limit test standard including performance, function, environment and service life, which are far above the industry level.

CONTENTS

Meet road registration requirements across Australia.

ECONOMICAL OPERATION

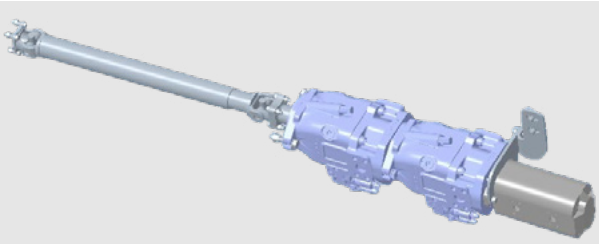
G-ECO efficient and energy-saving in full life cycle

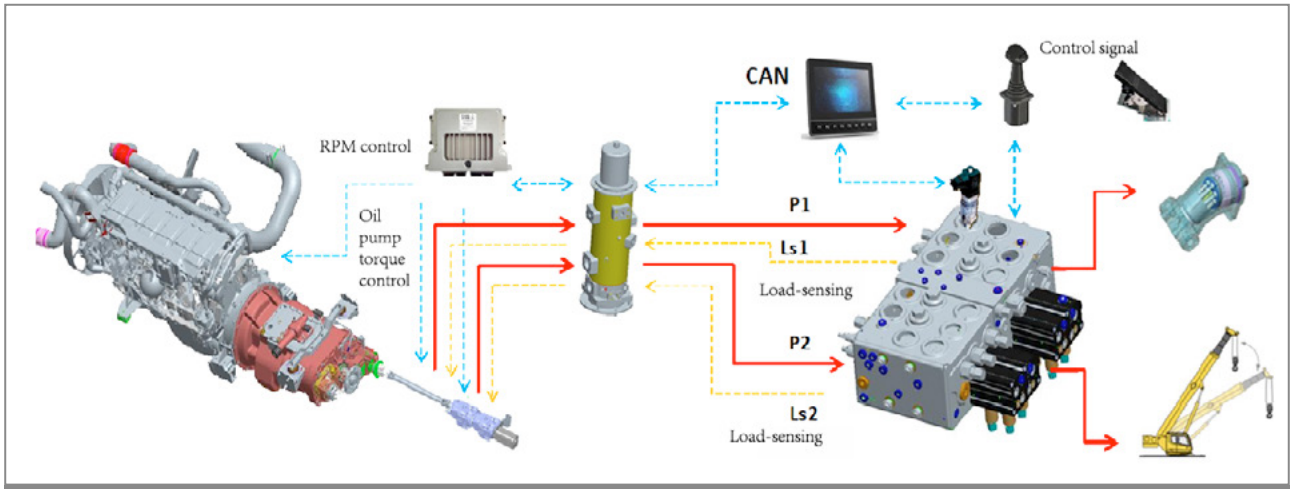
NEW ELECTRO-HYDRAULIC ENERGY-SAVING CONTROL TECHNOLOGY

- Hydraulic system-engine intelligent cooperation allows the engine to always work in the best state of power output, and average oil consumption is significantly reduced for superstructure operations.
- Equipped with high-power hydraulic oil radiators, continuous operation without shutdown in a high-temperature environment of 50°C, more comfortable operation.

Exclusive large-displacement plunger pump, smartly matching the economical operation zone of the engine.

Low-speed, high-torque, better fuel-saving.



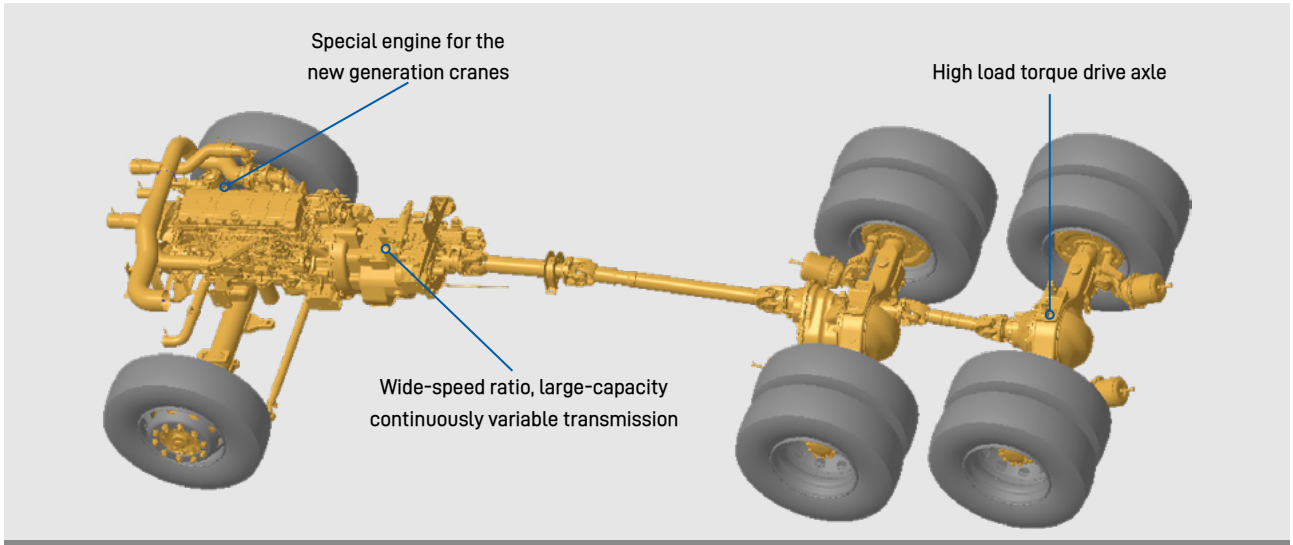


Self-adaptive control of pressure and flow under all operation modes.

Zero-loss & zero-waste of pressure and flow under all operation modes

LOW-SPEED LARGE-TORQUE DRIVETRAIN TECHNOLOGY 2.0

- The integrated power platform equipped with an efficient intake and boost system achieves a perfect combination of power and economy, easily handling various working conditions, reduced fuel consumption, improved power, starting quickly, and increasing grade ability by 45%.



Special power drivetrain platform

SUPERB LIFTING PERFORMANCE

- Four-section U-shaped boom of 36 m, fixed jib of 8.3 m, with excellent boom performance, and boom has a 0° lifting operation mode, covering a wide range of operation modes. It is highly adaptable to high-frequency construction scenarios such as infrastructure construction, housing construction, forestry, and factory loading and unloading, with high operational efficiency.
- Innovative single-plate boom head and compact boom tail structure, best overlapping ratio in its class and stronger boom load-bearing capacity.

PRECISE CONTROL

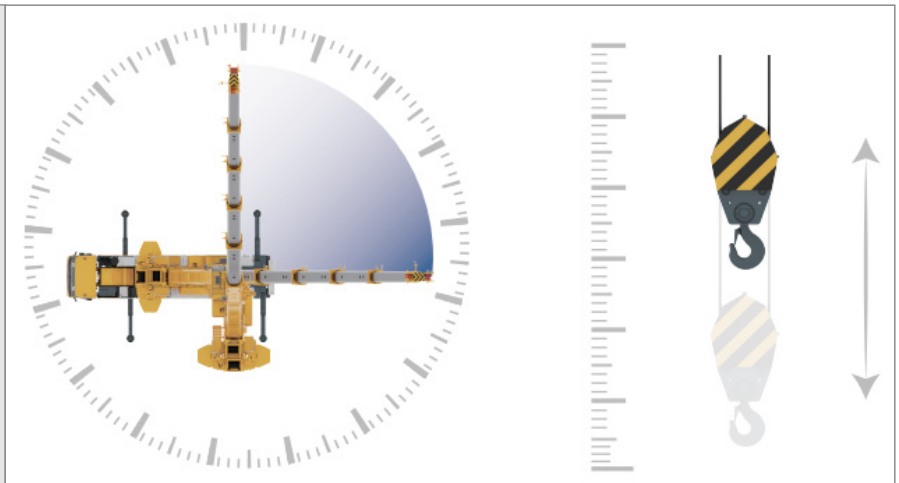
G-Master precise control in all operation modes

PRECISE AND SMOOTH CONTROL UNDER ALL OMS

- The new-generation control system of smart pump-valve combination is integrated with multi-stage pressure slewing buffer, and electro-hydraulic proportional smart telescoping technology. Its handling performance is improved by 20% with precise fine and smooth control.

PRECISE FINE-CONTROL

Fine-control of winch, slewing and luffing reaches millimeter level



COMPOUND MOVEMENTS ENABLED UNDER 100% OMS

WINCH + BOOM LUFFING

MAIN WINCH + TELESCOPING

MAIN WINCH + AUXILIARY WINCH

SMOOTH AND STEADY CONTROL

Fast response; Smooth starting, stopping & acceleration without impact generated

Smooth slewing & telescoping

ANY COMBINATIONS OF VARIOUS MOVEMENTS

Any combinations among slewing, telescoping, luffing and main/auxiliary winch.

INTELLIGENCE-POWERED PREMIUM EXPERIENCE

G-COMFORT FULL ENJOYMENT

Brand-new styling; super-large internal space; super-wide filed of view; super-abundant storage space; plentiful configuration; delicate process; high intelligence; comfortable operation.

G-STAR CAB: DRIVER'S CABS GRANT FULL COMFORT

①	Large windshield	The upward and downward field of views of the windshield are increased by 50% and 8% respectively; the downward field of view of the side window is increased by 10%. It offers a wider field of view with improved driving safety.
②	Multi-storage space	Multiple storage locations for water bottles, cups, mobile phones, manuals and receipts, etc, meet diverse storage needs.
③	Integrated air outlet	Streamlined and throughout design offers a clean and elegant appearance.
④	HVAC	Integrated auxiliary heating control with multiple independently controlled air vents provide both face-level and foot-level airflow, effectively supporting defrosting and demisting functions, with fast heating and cooling performance.
⑤	New central control panel	12.1-inch true color display with large screen offers higher definition. The central control area integrates various functions such as combined design of switch and touch, audio and video entertainment, navigation system and reversing camera. Reliable and durable, and easy to control.
⑥	Air-suspension shock absorber seat for the main driver	More attention is paid to ergonomics. Adjustable seat with electric heating function reduces fatigue and improve operation precision and safety.
⑦	Multi-functional steering wheel	Integrated cruise control and entertainment controls, everything is under control.
⑧	Combined instrument panel	Platform-based instrument UI screen presents all key information and functions clearly at a glance, delivering a completely upgraded interactive experience.
⑨	Remote control door lock	Using the remote control key to control the driver's door lock/unlock and window lifters enhances convenience and intelligent operation.
⑩	Electric adjusting and heating rearview mirrors	Provides clear visibility in harsh weather, enhancing driving safety.
⑪	Other user-friendly designs	User-friendly design include LED combined light, 12 V charging ports+24 V charging ports +USB interface and door speaker.

G-STAR CAB: OPERATOR'S CABS GRANT FULL COMFORT

Brand-new styling; super-large internal space; super-wide filed of view; super-abundant storage space; plentiful configurations; delicate process; high intelligence; comfortable operation.

①	Openable large-area windshield	The windshield area is increased by 50%, and the side window area is increased by 30%. Reduce blind spots for improved driving safety.
②	High power air conditioning	Horizontal T3 HVAC for comfortable driving.
③	Multi-functional seats	The mechanical shock absorber, electric ventilation and pilot function seats enhance rest comfort and reduce fatigue.
④	Emergency stop switch	Accessible for safe operation.
⑤	7-inch display	Split-screen monitoring, with no need to switch screens back and forth, making operations safer.
⑥	Operation display	The 10-inch anti-glare touch screen with adjustable angle provides friendly screens and rich information at a glance.
⑦	New human-machine one-touch interaction design	Seven frequently used settings can be quickly operated, set, inquired, and collected, improving operation efficiency.
⑧	Vibration lever	The newly developed vibration lever, based on ergonomic principles, is easy and convenient to operate, ensuring more precise and faster operation.
⑨	Other user-friendly designs	User-friendly configurations include all-round sunshades, dual-LED lights, 24 V power port, foldable cup holder and coat hook.

USER-FRIENDLY DESIGN FOR MAINTENANCE AND SERVICE

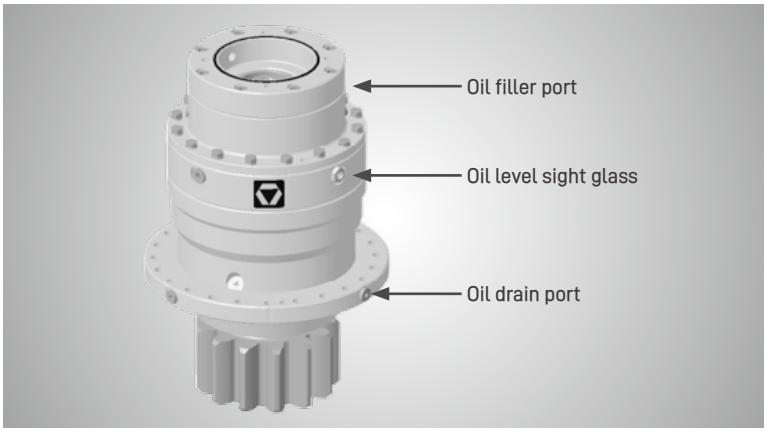
Well-designed access

LARGE MAINTENANCE SPACE WITHOUT OPERATION INTERFERENCE

Concentrated layout of check and repair points

Pull the front hood switch to automatically open and pop up the front hood

VISIBLE OIL LEVEL

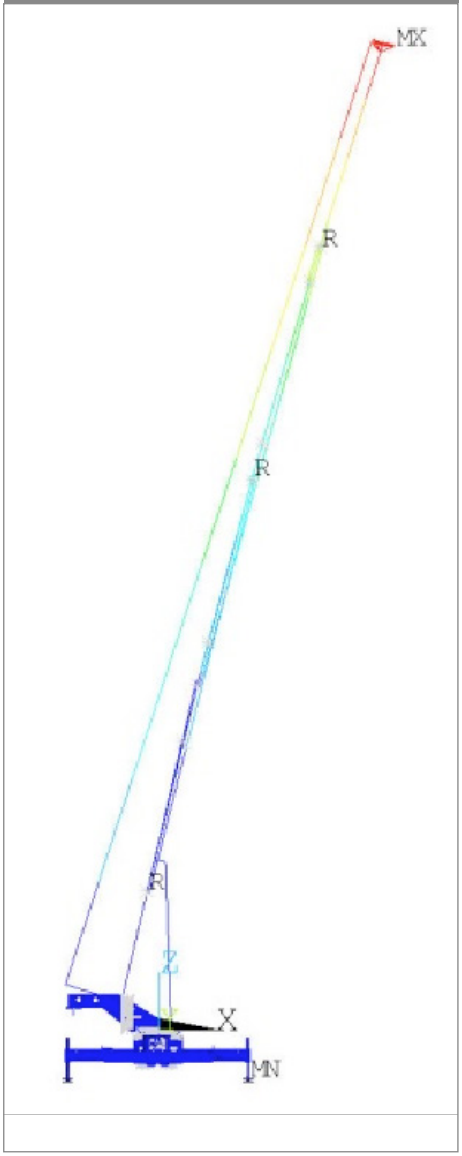


SAFE AND RELIABLE

G-Safe safe and quality manufacturing for full service life

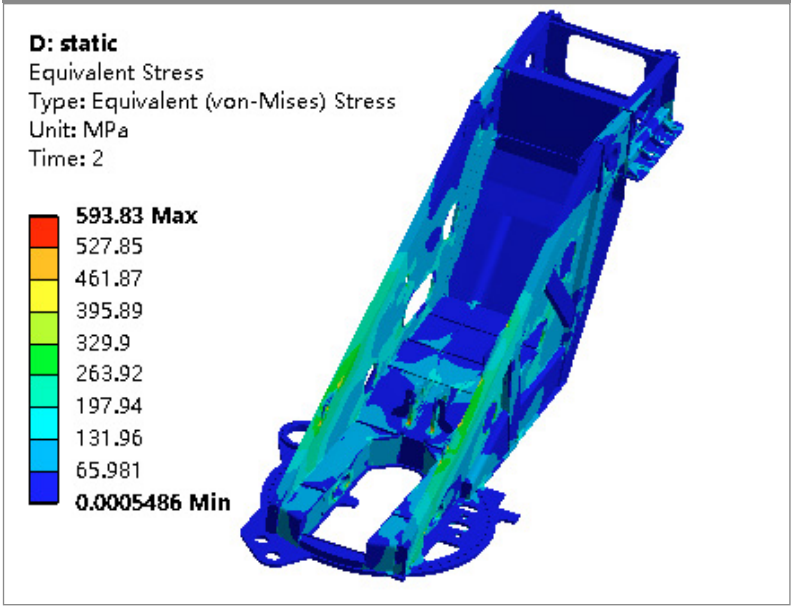
FULL-SERVICE LIFE STRUCTURAL SAFETY DESIGN

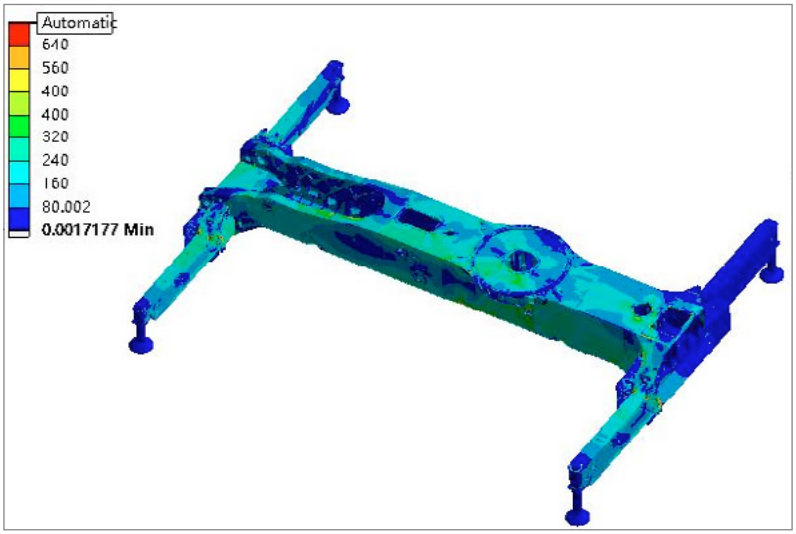
Deformation control for entire machine



More appropriate structural arrangement;
Deformation decreased by 30%; Safer operation

Stress evenly-distributed control technique for structural parts

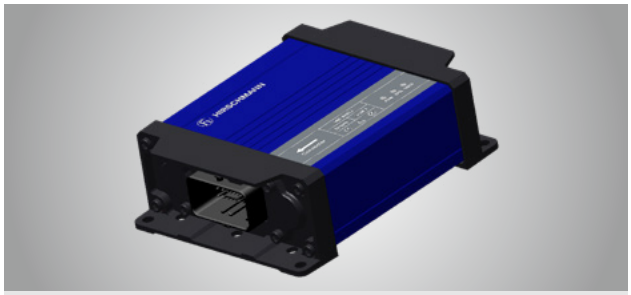




Stress of structural parts is evenly distributed,
enabling stronger load-bearing capacity,
Service life is over 1.6 times longer than benchmark

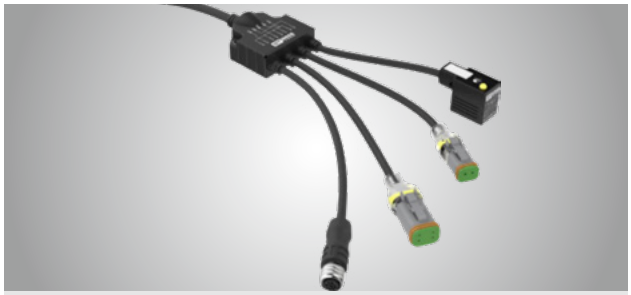
G-ELECTRICAL SYSTEM (GEC)

- Requirements of safe operation and specific functional extension can be met under all operation modes
- Essential electrical components have passed CNAS-level laboratory testing and certification. The electrical system is very stable.



High-precision LMI system

Optimize hardware in terms of improved computing power, high-resolution display, port protection and communication improvement, combined with high-precision algorithm models to improve the overall working radius and weight calculation accuracy, ensuring safety and reliability.

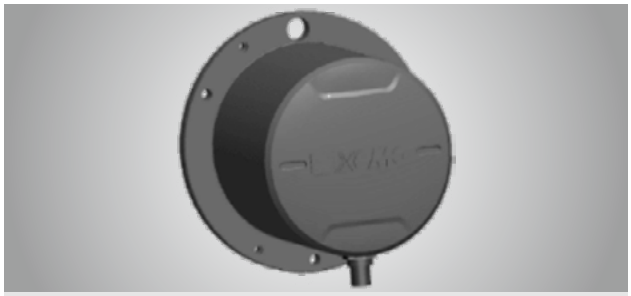


New-generation integrated injection molded wire harness

The integrated bus connection design elevates the protection rating to IP67, enabling reliable and maintenance-free wire harness performance in various extreme conditions.

Cable reel

Hermetically sealed with a brand-new structural design, offering enhanced protection effectiveness and high reliability.



Lowering limiter

High-precision encoder integrates winch speed measurement, safety diagnostics, and intelligent calibration.

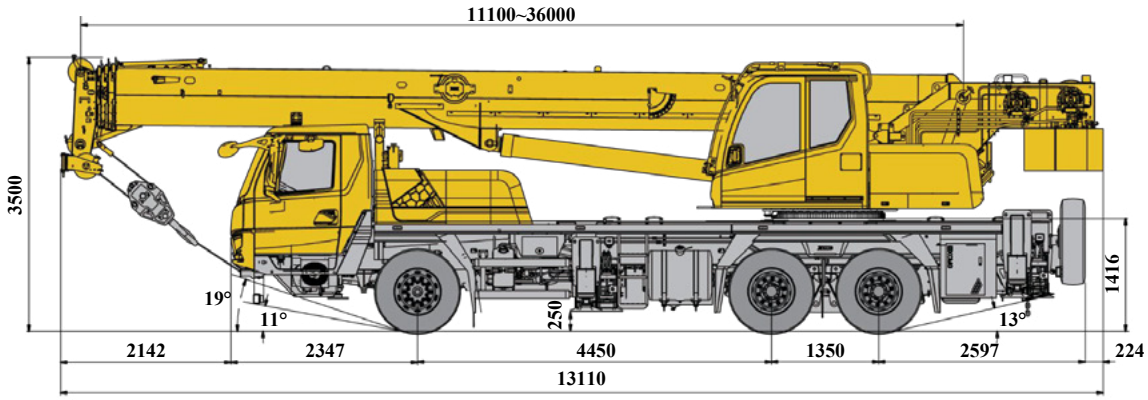
CAN bus module

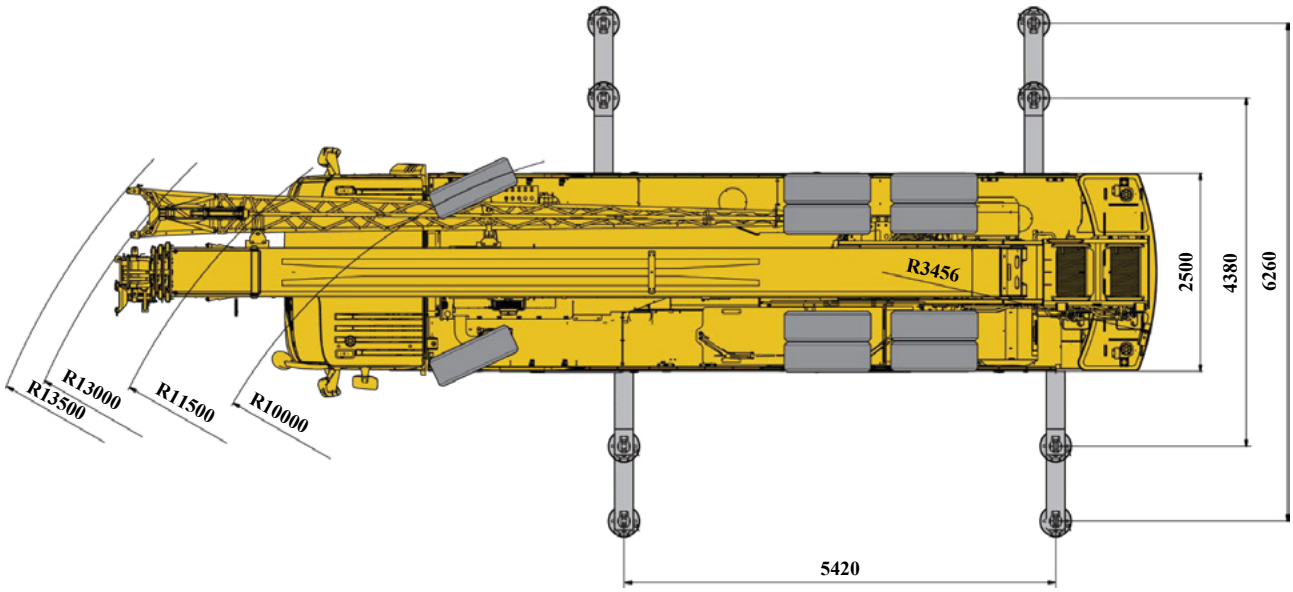
Longer service life of components, and more reliable circuit connection.

Anti-two block

Micro switch + resettable spring-type pull rod, offering extended service life and high reliability.

DIMENSIONS


11100~36000
3500
19°
11°
250
13°
1416
2142
2347
4450
1350
2597
224
13110


R13500
R13000
R11500
R10000
R3456
2500
4380
6260
5420

	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	Four outriggers arranged in H-shaped are hydraulically controlled by control levers. There is an outrigger control station located at each side of the chassis, and there is a level gauge, an illuminator and speed buttons on each control station. There is a check valve fitted in each outrigger cylinder, and a double-way hydraulic lock fitted in each jack cylinder. Fifth jack is equipped. Outrigger float dimension: φ400 mm; float dimension for the 5th jack: φ260 mm. Reaction force of outrigger at maximum lifting load: front outrigger: 326 kN; rear outrigger: 275 kN.
Engine	WP7H300E62, in-line, 6-cylinder, supercharged, intercooled diesel engine, made by Weichai Power, with rated power of 221 kw /2100 rpm, maximum torque of 1200 N.m, compliant with Euro VI emission standard. Fuel tank capacity: 240 L; AdBlue/DEF tank capacity: 35 L; engine displacement: 6.8 L.
Transmission	Mechanical transmission, made by Shaanxi Fast Gear Co., Ltd., 8-forward speed and 1-reverse speed.
Safety devices	Backup camera and ABS are standard.
Axles	High strength axles, 2nd and 3rd axles for driving, 1st axle for steering. Drive/steer mode: 6×2×4.
Suspension	Front suspensions: vertically mounted leaf springs, telescopic shock absorbers. Rear suspensions: rubber suspension with V-type control arm, light dead weight, better positioning effect, and maintenance-free.
Tires	10 tires and 1 spare tire, 1st axle is equipped with single tire, 2nd and 3rd axles are equipped with dual-tire. Tire specifications: 315/80 R22.5.
Braking system	Service brake: foot pedal operated dual-circuit air pressure brake. Parking brake: spring applied brake, acting on the wheels of axles 2 and 3. Auxiliary brake: engine in-cylinder brake; safe and reliable; the service life of brake lining prolonged.
Steering	Mechanically steering mechanism with a hydraulic booster.
Driver's cab	New full dimension steel structure cab features a spacious, panoramic, and multi storage layout. Equipped with electric window lifters, electrically heated rearview mirrors, remote unlocking function, multi-functional steering wheel, air-suspension seats for driver and co-driver, LED headlight, new combined central control panel, 12.3-inch LCD screen display, 12-inch central control screen and HVAC.
Electrical system	DC 24 V, with 2 sets of 12 V batteries in series.

TECHNICAL SPECIFICATIONS

	SUPERSTRUCTURE
Structure	Designed and manufactured by XCMG, made of high strength steel.
Hydraulic system	The chassis engine drives a load-sensing plunger pump and gear pump in series through the transmission, which are used to control hoisting of main and auxiliary winches, luffing, telescoping, slewing and auxiliary system. Load-sensing electro-hydraulic multi-way valve is equipped for smooth operation. Air-cooled hydraulic oil cooler is fitted. Hydraulic oil tank capacity: 440 L
Operating method	Pilot electric proportional control is operated through two control levers at left and right sides. Stepless speed regulation is available.
Main winch and auxiliary winch	Hydraulic control is used for speed regulation. The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake and a counterbalance valve and a grooved drum equipped.
Slewing system	Single-row, contact ball, external tooth slewing ring with a single slewing mechanism at right side is driven by the planetary gear reducer of slewing mechanism, which is driven by a hydraulic motor, and it may continuously slew 360°. Power control or free slewing function is available, and stepless slewing speed regulation is available.
Luffing system	Single cylinder luffing, with counterbalance valve featuring the load compensation function.
Operator's cab	Steel enclosed operator's cab tiltable up to 20°. The cab features spacious, panoramic, and multi-storage layout, safety glass with no blind spots, an openable windshield, and a 20 mm thickened, transparent roof window. Push-pull sliding door with remote controlled locks, protective grilles, and remote control electric telescoping side pedal (with 3 control modes) are in place. Dual-motor wipers are fitted for the windshield and roof window. 2.5 L kettle is also available. Stylish interior design. Sun screens for windshield and rear and side windows; double-layer sun screen for the roof window. Shock absorber and adjustable seat with leather + breathable mesh is equipped with seat belts. Dual LED interior light, HMI control panel, 10.1-inch display, armrest, engine accelerator pedal, electric proportional slewing brake pedal, engine ignition switch, and HVAC are available.
Safety devices	The safety devices include load moment indicator system, counterbalance valve, relief valve, hydraulic lock and turntable locking pin, etc. The load moment indicator system consists of the indicator, length/angle sensor, lowering limiter, anti-two block, oil pressure sensor, emergency stop switch and level gauge.
Load moment indicator	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	Fixed counterweight is 4.55 t.
Hook block	25 t, 5 t hook block
Boom	Four-section boom with U-shaped profile is made of high strength steel, with special anti-deformation design. Single cylinder plus ropes is used to telescope the boom. Boom length: 11.1 m~36 m.
Fixed jib	The jib consists of a connecting bracket, an offsetting bracket and a foldable lattice jib. Three offset angles of 0°, 15° and 30° are available. It is stowed along the side of the boom. Fixed jib length: 8.3 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 does not exceed 3.9 t.

Other items of equipment available on request.

OPTIONAL EQUIPMENT	COMPONENT DESCRIPTION
Overseas GPS terminal	

AXLE	1	2	3	TOTAL WEIGHT
t	7	11.5	11.5	30

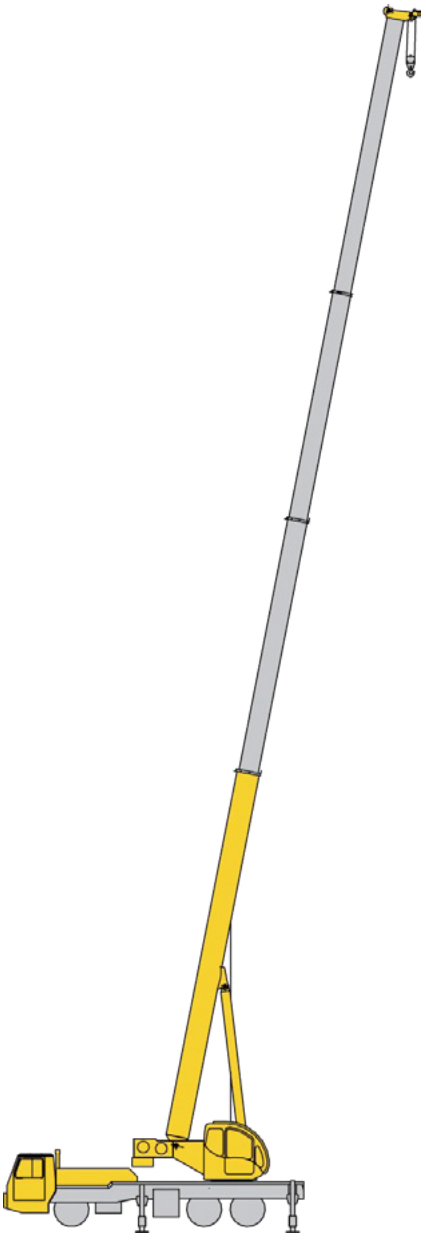
	PARTS OF LINE	HOOK BLOCK WEIGHT (kg)	HOOK BLOCK DIMENSION (mm)	NOTES
25 t	7	200	347×404×1137	Single-hook
5 t	1	62	236×236×531	Single-hook

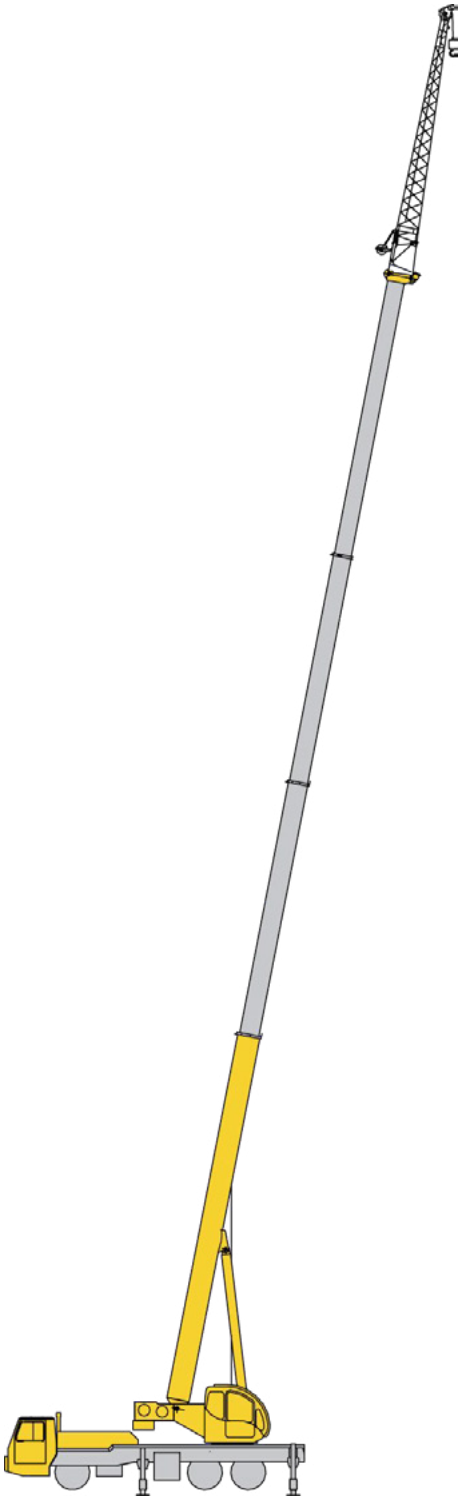
WORKING SPEEDS

315/80 R22.5	3~80km/h	45%

	Max	F	Φ	
①	0-130 m/min, single line, no load	38.3 kN	14 mm	165 m
②	0-130 m/min, single line, no load	38.3 kN	14 mm	96 m
	0-1.5 r/min			
	Approx. 45 s for boom luffing up from -2° to 79°			
	Approx. 55 s for boom extending from 11.1 m to 36 m			

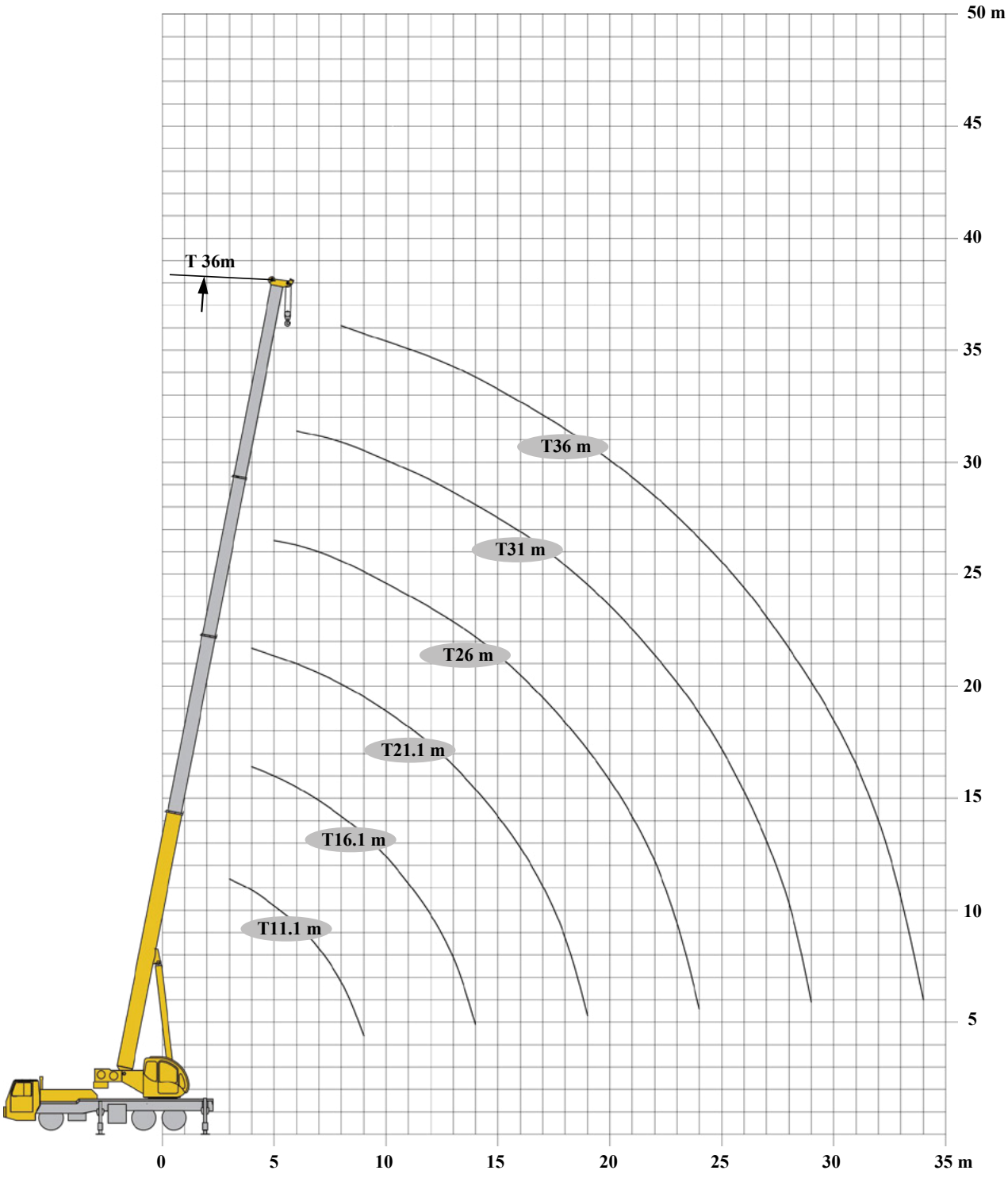
BOOM	FIXED JIB
T: 11.1-36 m	T: 36 m F: 8.3 m

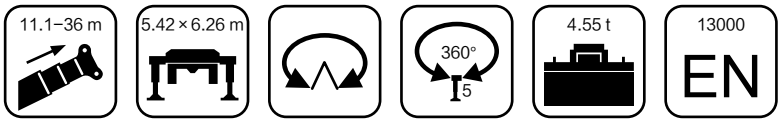




WORKING RANGE DIAGRAM

BOOM



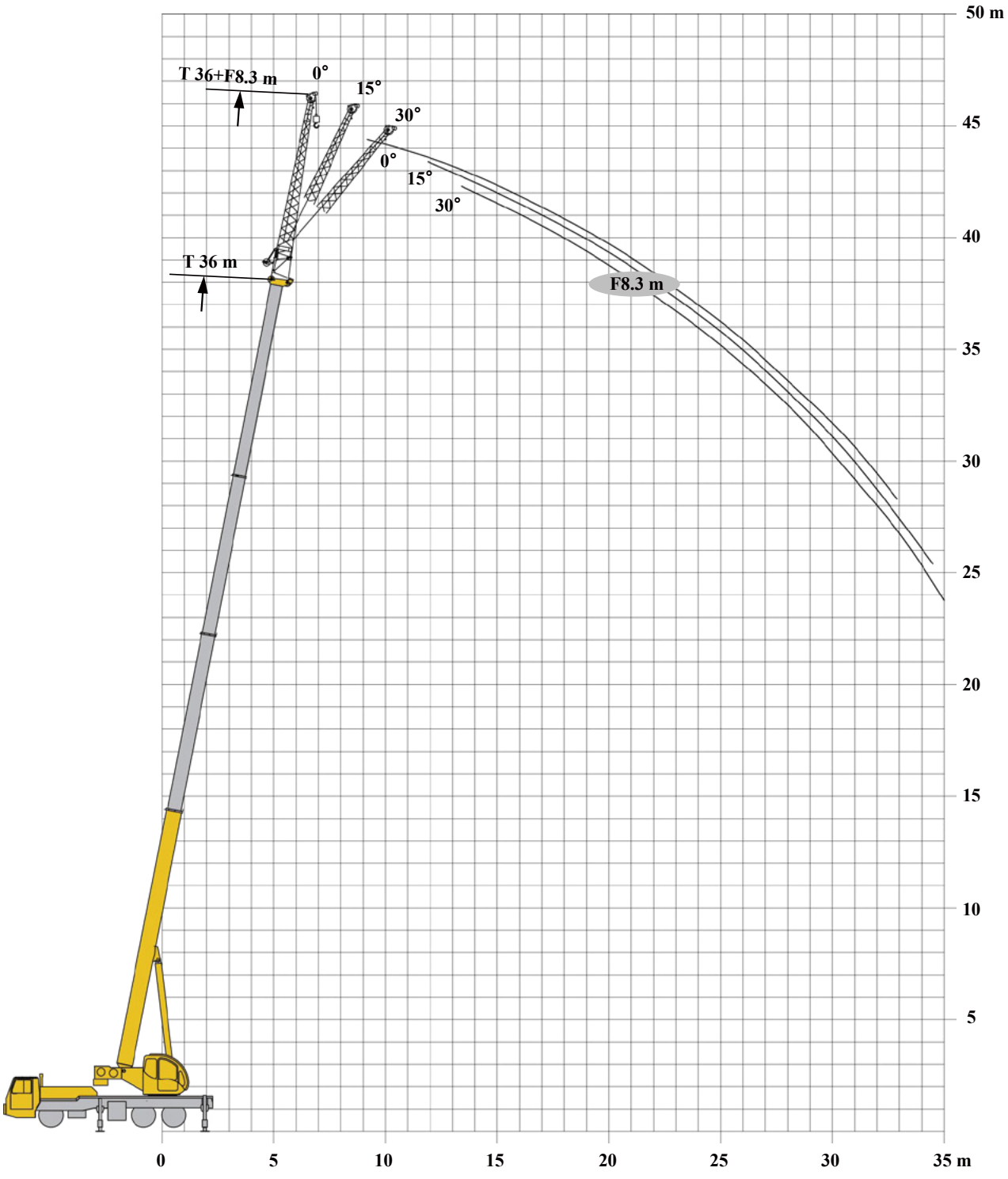


	11.1	16.1	21.1	26	31	36	
3	30*						3
3.5	25						3.5
4	24.5	21.5	20.4				4
4.5	23.2	19.5	18.9				4.5
5	22	18.6	18	14.6			5
5.5	19.5	18.6	17	14.0			5.5
6	17.5	17.4	16	13.5	10.9		6
6.5	15.9	15.9	15.5	12.9	10.5		6.5
7	14.6	14.6	14.2	12.4	10.2		7
8	11.5	12.3	12.3	11.5	9.4	7.6	8
9	10	10.1	10.3	10.4	8.7	7.2	9
10		8.5	8.6	8.7	7.9	6.8	10
11		7.6	7.8	8	7.1	6.1	11
12		6.4	6.7	6.9	6.5	5.8	12
13		5.5	5.8	6	6	5.3	13
14		4.8	5	5.2	5.3	5	14
15			4.4	4.5	4.6	4.4	15
16			3.9	4	4.1	4.1	16
17			3.4	3.6	3.7	3.7	17
18			3.1	3.2	3.3	3.3	18
19			2.7	2.9	2.9	3	19
20				2.6	2.6	2.7	20
21				2.3	2.4	2.4	21
22				2.1	2.1	2.2	22
23				1.8	1.9	2	23
24				1.6	1.7	1.8	24
25					1.6	1.6	25
26					1.4	1.5	26
27					1.2	1.3	27
28					1.1	1.2	28
29					1	1	29
30						0.9	30
31						0.8	31
32						0.7	32
33						0.6	33
34						0.5	34

Note: * means special devices are necessary.

WORKING RANGE DIAGRAM

JIB



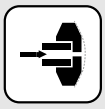
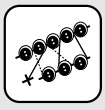
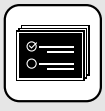
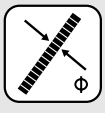
	36			
	8.3			
	0°	15°	30°	
78	3	2.5	1.6	78
75	2.8	2.3	1.5	75
72	2.8	2.2	1.4	72
70	2.5	2	1.3	70
65	2.3	1.7	1.2	65
60	2	1	1	60
55	1.5	0.5	0.5	55
50	1.1			50

MAIN TECHNICAL PARAMETERS

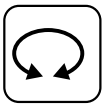
TYPE	ITEM		UNIT	PARAMETERS
Dimensions	Dimensions (L×W×H)		mm	13110×2500×3500
	Axle spacing		mm	4450+1350
	Track (front/rear)		mm	2036/1838
	Front/rear overhang		mm	2347/2597
	Front/rear extension		mm	2142/224
Weights	Maximum permissible total weight		kg	30000
	Axle load	Axle 1	kg	7000
		Axle 2	kg	11500
		Axle 3	kg	11500
Power	Engine model		——	WP7H300E62
	Rated power/rpm		kW/(r/min)	221/2100
	Maximum net power/rpm		kW/(r/min)	216/2100
	Maximum output torque/rpm		N.m/(r/min)	1200/1300-1700
Travel	Maximum travel speed		km/h	80
	Minimum stable travel speed		km/h	3
	Minimum turning diameter		m	20
	Minimum turning diameter at boom tip		m	27
	Minimum ground clearance		mm	244
	Approach angle		°	11
	Departure angle		°	13
	Braking distance (initial speed at 60 km/h)		m	≤31
	Maximum grade ability		%	45
	Fuel consumption per 100 km		L	35
Noise	Exterior noise level when accelerating		dB(A)	≤79
	Noise level at seated position		dB(A)	≤90

TYPE	ITEM			UNIT	PARAMETERS
Main performance	Maximum rated total lifting capacity			t	30
	Minimum rated working radius			m	3
	Turning radius at turntable tail	At counterweight		mm	3456
	Maximum load moment	Base boom section		kN.m	1078
		Fully-extended boom		kN.m	686
		Fully-extended boom+jib		kN.m	445
	Outrigger span	Longitudinal		m	5.42
		Lateral		m	6.26
	Lifting height	Base boom section		m	11.5
		Fully-extended boom		m	36.2
		Fully-extended boom+jib		m	44.4
	Boom length	Base boom section		m	11.1
		Fully-extended boom		m	36
		Fully-extended boom+jib		m	44.3
	Jib offset angle			°	0, 15, 30
Working speeds	Time for raising boom			s	≤45
	Time for fully extending the boom			s	≤55
	Maximum slewing speed			r/min	≥1.5
	Time for extending/retracting outriggers	Outrigger beams	Retracting	s	≤20
			Extending	s	≤20
		Outrigger jacks	Retracting	s	≤20
			Extending	s	≤35
	Lifting speed (single line, no load)	Main winch system		m/min	≥130
		Auxiliary winch system		m/min	≥130
Noise	At driver position			dB(A)	≤85

DESCRIPTION OF SYMBOLS

	Superstructure		Boom
	Rated lifting load		Boom length
	Counterweight		Working radius
	Slewing radius of variable-position counterweight		Lifting height with boom
	Hook block		Boom angle
	Parts of line		Extension
	Boom length combination		Independent jib head
	Wind speed		Simple jib head
	Configuration		Fixed jib
	Optional equipment		Fixed jib length
	Wire rope length		Fixed jib offset angle
	Wire rope diameter		Luffing jib

	Maximum single line pull
	Maximum working speed
	Main winch
	Auxiliary winch
	Luffing winch
	Chassis
	Outrigger span
	Tire
	Axle load
	Grade ability
	Travel speed
	Luffing

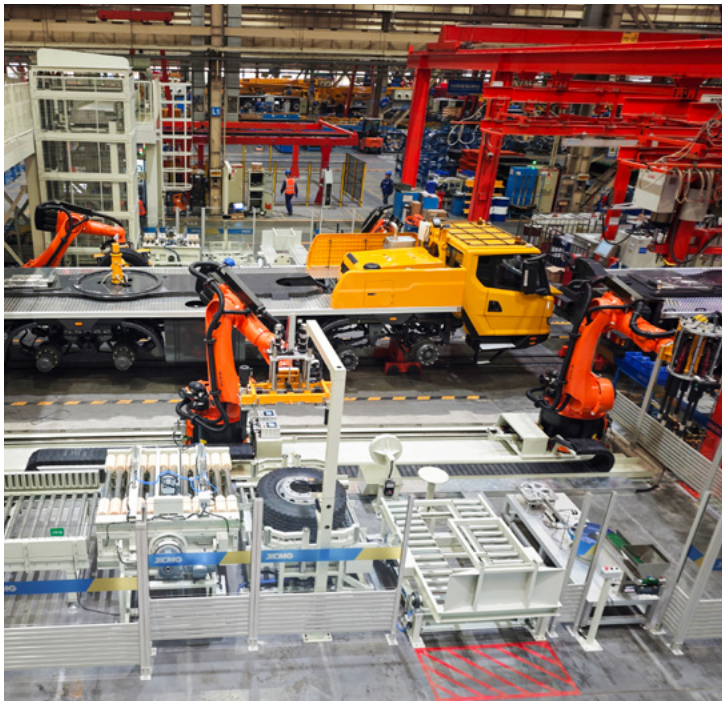
	Maximum lifting height
	Maximum working radius
	Super lift
	Wind power jib
	Telescoping
	Slewing
	360° slewing
	360° slewing with the 5th jack down
	Side and rear operation
	Operation over front
	Operation over rear
	EN 13000 standard

SAFE AND RELIABLE

G-SAFE LIFE CYCLE SAFE QUALITY

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

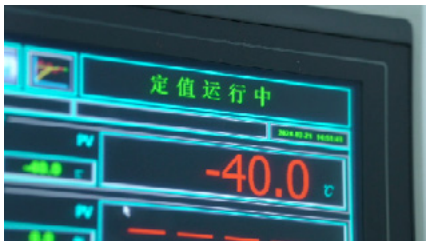
UNMANNED AUTOMATIC WELDING

DIGITIZED STRUCTURE WORKSHOP

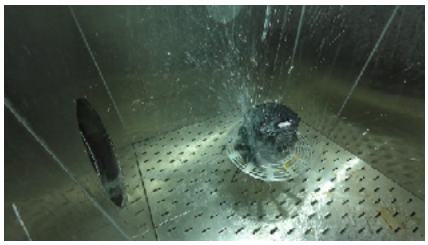
PARTS AND COMPLETE MACHINE TESTING

- 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

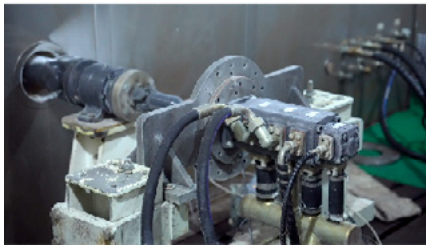


HMI display
Low-temperature performance test under -40℃

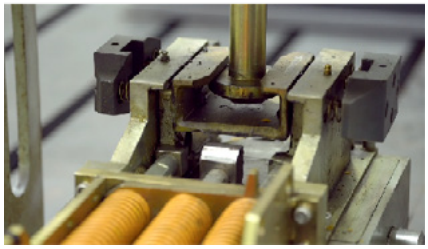


Length measurement sensor
48-hour rain-proof test

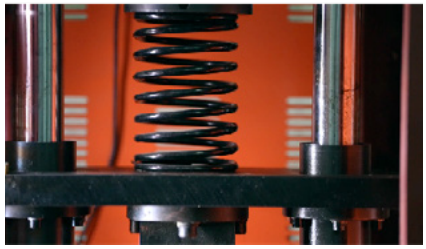
Panel buttons
1.2 million times reliability test



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

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