XCMG

ROUGH TERRAIN CRANE

XCR60_U

WHIRLWIND GLADIATOR

55 t (60 USt)

43.6 m (143.0 ft)

36 m (118.1 ft)

57.1 m (187.3 ft)



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.



MOBILE CRANES

- 5 t-300 t Truck Crane
- 40 t-4000 t All Terrain Crane
- 13 t-150 t Rough Terrain Crane

CRAWLER CRANES

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



XCR60_U is designed with four innovative technologies integrated to create superior performance, green and energy saving, efficient and intelligent lifting equipment.



Flexible in space and comfortable driving

1.1 m(3.6 ft) wide cab and sedan-class human-machine interaction system make it easy to control the vehicle, and more comfortable and convenient to operate.

Mobile and flexible, convenient for jobsite transfer

All-wheel driving system, 4 steering modes, forward and reverse driving functions, with a min. turning radius of 6 m (19.7 ft), maneuverable and flexible; with specialized off-road patterned tires, it can smoothly travel in various jobsites.

Large power engine + low speed high torque transmission system with hydraulic torque converter; acceleration performance is improved by 10%, the maximum travel speed is 35 km/h (21.7 mph) and the maximum grade ability is 86%; contributing to excellent maneuver ability and quick job site transfer.

Superior performance for excellent lifting equipment

5-section boom of 43.6 m (143.0 ft), the length of boom and jib can reach 59.6 m(195.5 ft) after jib is installed. Boom length and lifting capacity take the lead in the industry. The crane is widely used for lifting operations in oilfields, mines, construction sites, road and bridge construction, and industrial and mining enterprises etc.

Precise control and efficient operation

Dual variable pump control system and multi-mode steering technology with automatic steering angle adjustment contribute to efficient and safe operations with intelligent control.

Intelligent boom system can standardize the operation of the users and improve the operation safety; it provides users with the most effective lifting plan, and improves the working efficiency.

Leading the industry for saving energy capability

Incorporate energy-efficient hydraulic systems, hydraulic torque converter with locking function, and ECO energy-saving technologies. Thus, fuel consumption can be significantly reduced.

Exquisite craftsmanship for upgraded quality

Complete access for climbing & maintenance, professional human-machine engineering simulation analysis, and user-friendly detailed designs create an intrinsic quality that is comfortable to operate and easy to maintain.

Safety empowered by technology

Dedicated driving safety active protection technology is adopted to realize classified management, such as automatic warning, gear and speed limit, automatic brake according to different fault categories, in order to improve the active safety of the driving vehicle.

Fault self-diagnosis system is adopted; there are 285 control nodes; automatic inspection and automatic diagnosis can be shown in real-time on the display. The fault diagnosis rate can reach 76%.



CONTENTS

Product advantages and highlights	1-9
Dimensions	10
Technical specifications	11-12
Weights	13
Working speeds	14
Counterweight	15
Boom / jib combinations	16-17
Load charts	18-24
Table of main technical parameters	25-26
Description of symbols	27-28





FLEXIBLE IN SPACE AND COMFORTABLE DRIVING

1.1 m (3.6 ft) EXTRA-LARGE CAB IS MORE SUITABLE FOR TALL USERS

Dust-proof, noise-canceling and highly-sealed cab, with extra-space design, meets the tall user's demand for free movement of head, elbows and legs, with more space and more comfortable seat.

The sedan-class human-machine interaction system enables friendly dialog between operator and the crane.

①	Large windshield	Reduce blind spots for improved driving safety.
②	Instrument panel	Well-bedded and streamlined design for convenient operation.
③	HVAC	Adjustable air outlets and T3 HVAC for comfortable driving.
④	Emergency stop switch	Accessible for safe operation.
⑤	Operation display	The 10.4 inch true color touch screen display with adjustable angle provides friendly screens and rich information at a glance.
⑥	Monitor	Monitor the winch and the situation behind when reversing, with all-round visibility for operation and driving with safer use.
⑦	Driving display	It displays real-time information such as vehicle speed, engine speed, and water temperature, making it easier to monitor.
⑧	Other humanized configuration	12/24V power interface, radio, cup holder and double-layer storage box, etc.

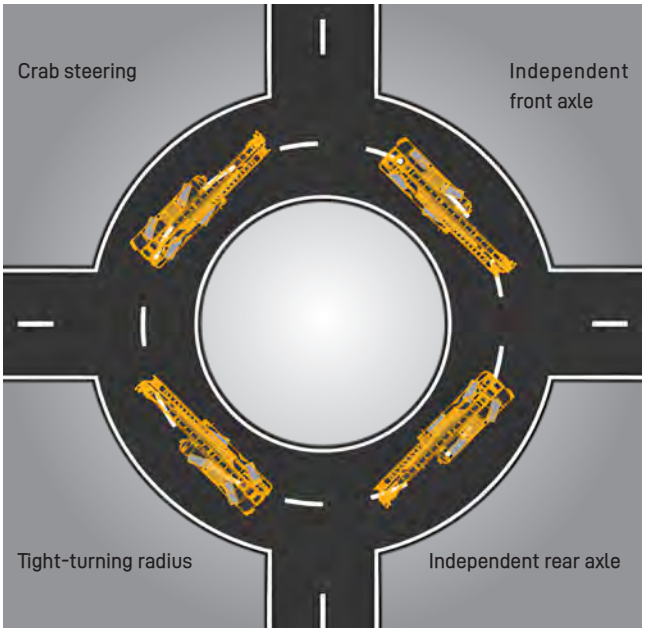
STRONG POWER

- 194 kW(260 bhp) high power engine (American Cummins) + low-speed high-torque hydraulic torque converter system; the maximum output torque is 990 N.m (730 lb-ft) and the acceleration performance is improved by 10% with high speed and efficiency; 6 forward gears and 3 reverse gears match all-axle drive + specialized off-road patterned tires, with strong pass ability for potholes, muddy roads and other harsh road conditions, making jobsite transfer convenient.



MOBILE AND FLEXIBLE

- Four steering modes, including crab steering, tight-turning radius, front axle independent steering and rear independent axle steering, all controlled by the steering wheel, more in line with driving habits.
- The crane drives forwards and backwards. The minimum turning radius is 6 m (19.7ft) , flexible with strong adaptability in confined space.



SUPERIOR PERFORMANCE FOR EXCELLENT LIFTING EQUIPMENT

EXCELLENT LIFTING CAPACITY, WIDE OPERATING RANGE

- 5-section boom of 43.6 m(143.0 ft).
- Two jib sections of 9.2 m(30.2 ft)~16 m(52.5 ft) , with offset angles of 0 °, 15 °, and 30 °.
- Three boom telescoping modes, with a wide operating range and strong OM adaptability.

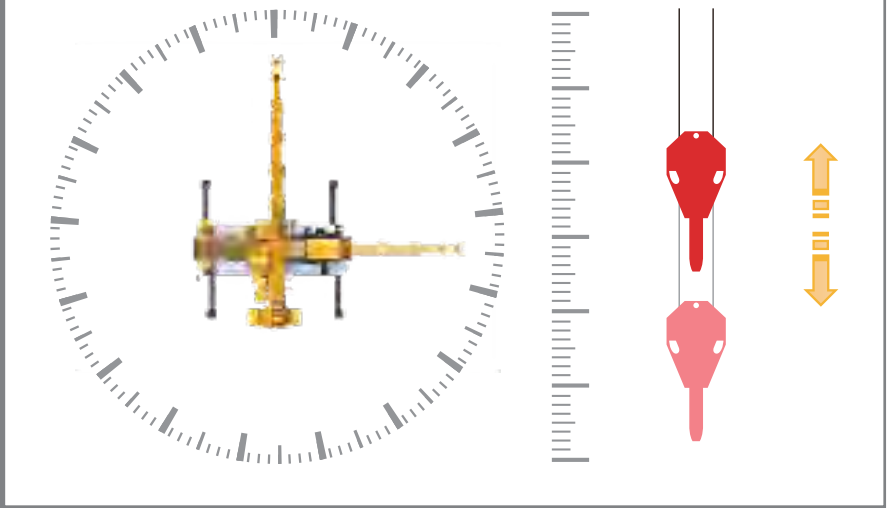


DUAL VARIABLE PUMP CONTROL SYSTEM

- Dedicated dual-variable displacement pumps for totally independent winch and boom control, or the flow can be combined for high-speed operation.
- Additional pump for outriggers and slewing and independent pump for AC system.
- Hydraulic oil cooler with automatic temperature control for sustainable operation in high or low temperature environments.

FINE CONTROL

Millimeter precision is achieved when winching, slewing and luffing.





SUPERIOR PERFORMANCE MAKES FOR PRECISE CONTROL AND EFFICIENT OPERATION

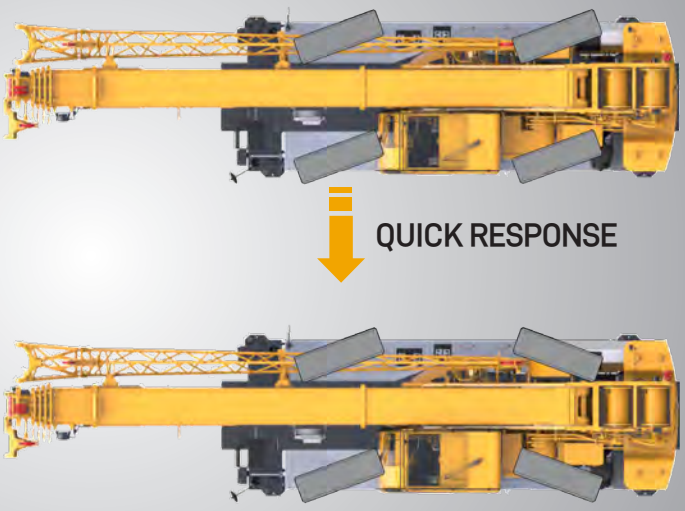
INNOVATIVE AUTOMATIC STEERING ANGLE ADJUSTMENT TECHNOLOGY

- The steering modes can be switched at any time with the turn of the knob and the crane takes care of the rest.
- Dedicated display mode showing the exact position of the wheels and the status of the system. No more guessing where the wheels are at.

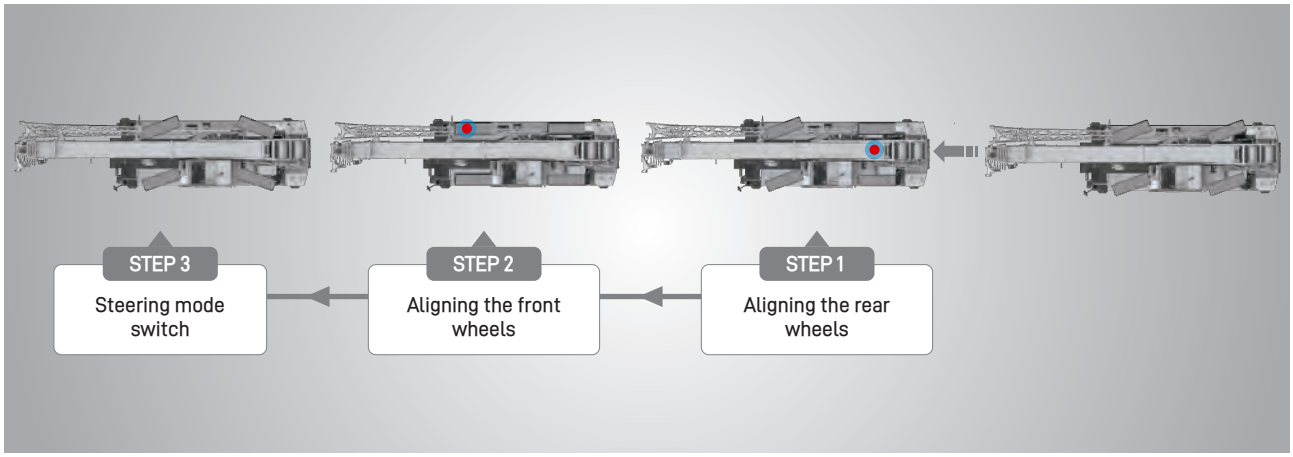
STEERING MODE SWITCHING IN XCMG ROUGH TERRAIN CRANES EASY SELECTION FOR EFFICIENT AND TIME-SAVING OPERATION

XCMG MULTI-MODE STEERING TECHNOLOGY WITH REAR WHEEL AUTO CENTERING



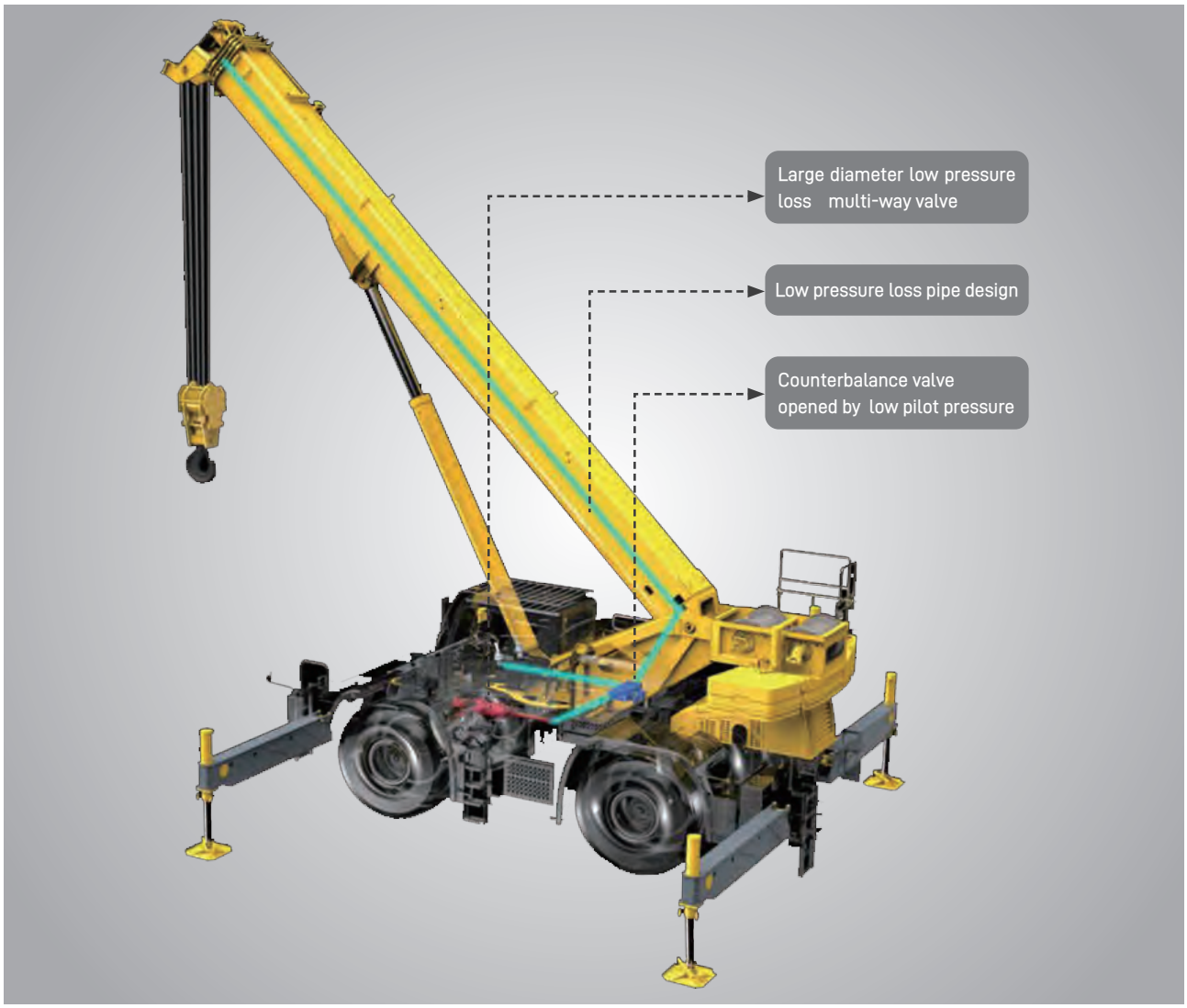


STEERING MODE SWITCHING IN OTHER ROUGH TERRAIN BRANDS

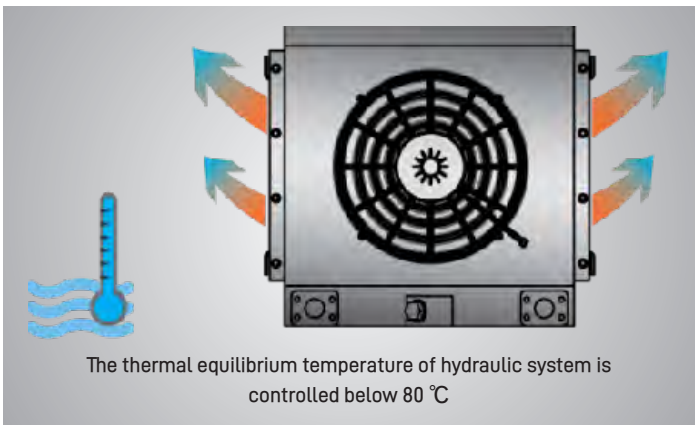


ENERGY-SAVING HYDRAULIC SYSTEM

- New energy-saving hydraulic system with dual-variable pump combined with a valve-controlled load sensing system and gravity auxiliary luffing cylinder down, making fuel consumption reduction 10%~15% under various operation modes.



- Large power hydraulic oil cooler with automatic temperature control are available; continuous operation can be realized under high and low temperature.



The thermal equilibrium temperature of hydraulic system is controlled below 80 ℃

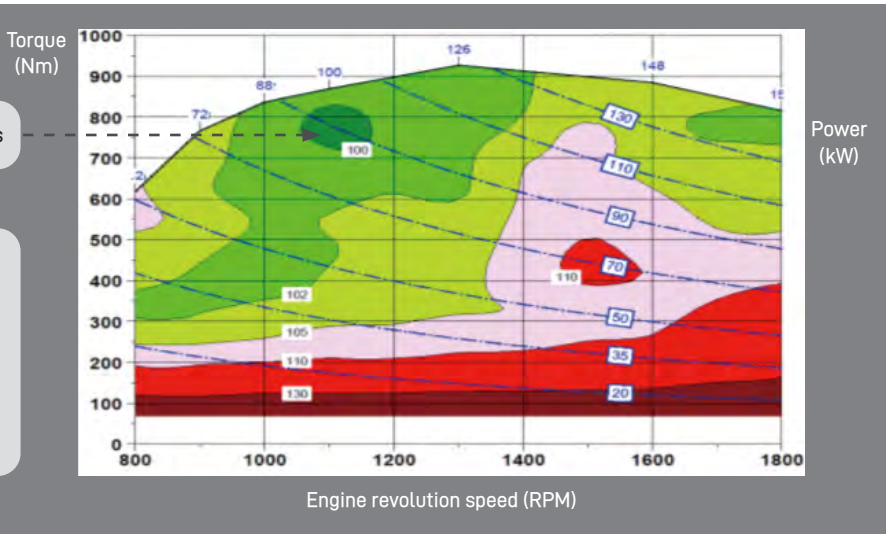
SUPERIOR PERFORMANCE LEADING THE INDUSTRY IN SAVING ENERGY

ECO ENERGY-SAVING MODE

- Under different operation modes, limiting the engine speed and utilizing the high-flow pumps, XCMG RT cranes achieve the lowest fuel consumption during lifting operations.

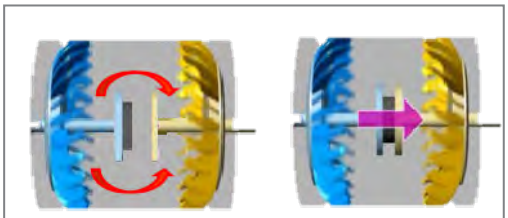
Operation in low fuel consumption modes





EFFICIENT HYDRAULIC TORQUE CONVERTER DRIVETRAIN

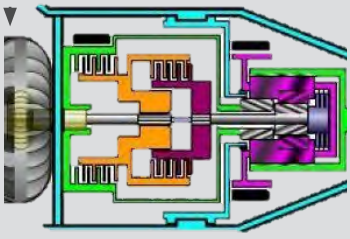
- The lock up torque converter offers efficient high speed travel operation and low speed torque multiplication when the going gets tough.
- At creep speeds the hydraulic torque multiplication is utilized to pull the crane through the toughest conditions.
- During higher speed travel, the converter is bypassed for a highly efficient direct drive connection between the engine and transmission.





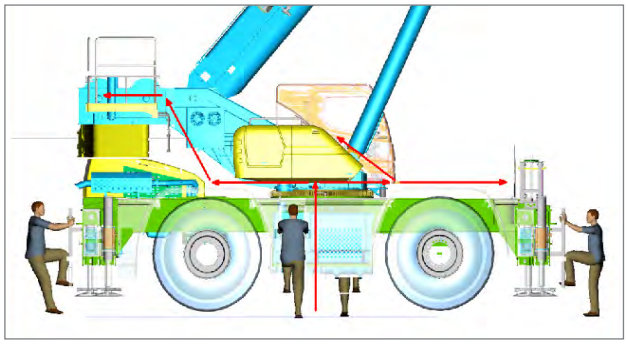
Reduced fuel consumption during travel

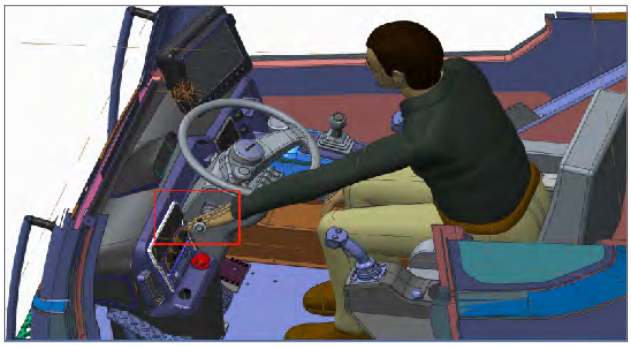




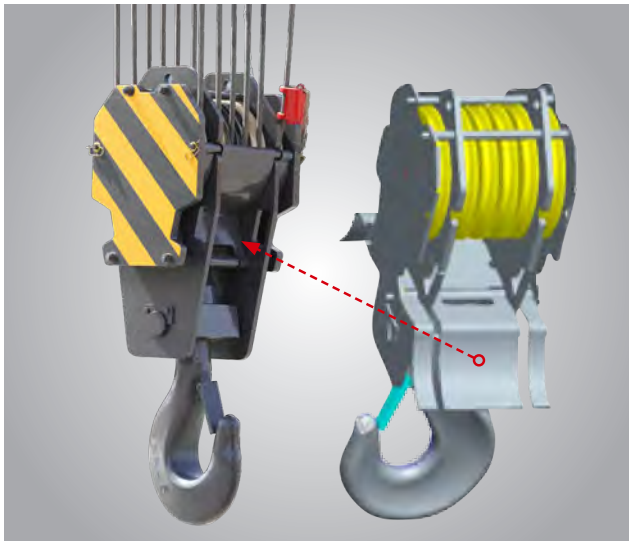
WELL-PLANNED ACCESS

- With complete cab and deck, and maintenance access, the operator can get on the vehicle from all four sides no matter the upper rotation.
- Professional ergonomic simulation analysis, and user-friendly detailed design.

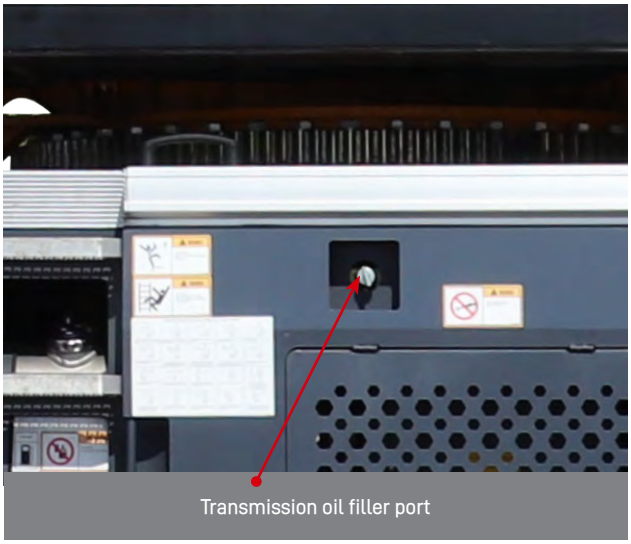




- New structure for rope-reeving, no need to disassemble rope socket.



- The transmission oil filler port is exposed, making it convenient for filling.



SAFETY EMPOWERED BY TECHNOLOGY

ACTIVE PROTECTION FOR OPERATION SAFETY

- Automatic stop for overload, audio and visual alarm, forced automatically limiting speed.
- It is designed referring to the safety standards for certification of Europe, North America, CU-TR and China.

DRIVING SAFETY ACTIVE PROTECTION SYSTEM

- Exclusive driving safety active protection is adopted; according to different fault types, classified management can be realized. Automatic alarm, limiting speed, automatic braking can greatly improve the active safety of vehicle driving.

OM AUTOMATIC INQUIRY

- The optimal operation mode will be recommended by inputting the load weight, working radius, lifting height. The inquiry process is easy and convenient, which will reduce the danger caused by mis-operation.



Input information



OM inquiry



Inquiry results

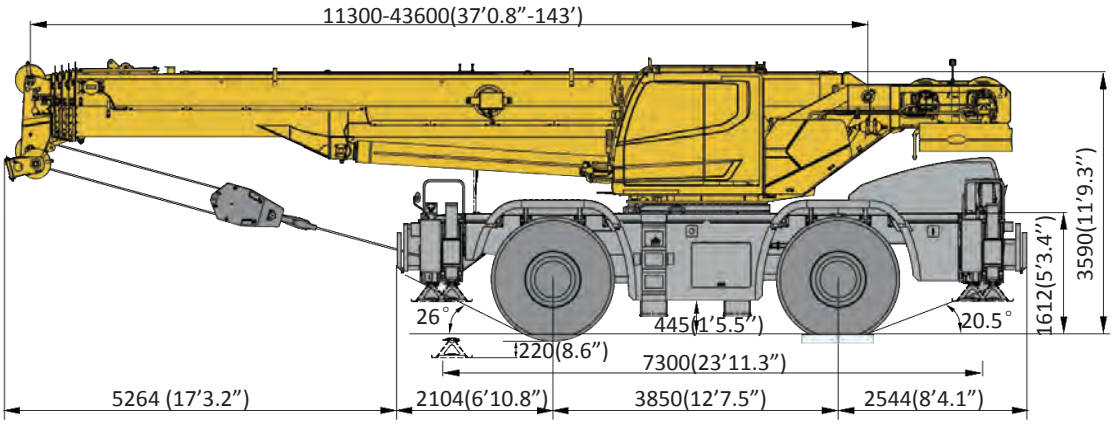
FAULT SELF-DIAGNOSIS SYSTEM

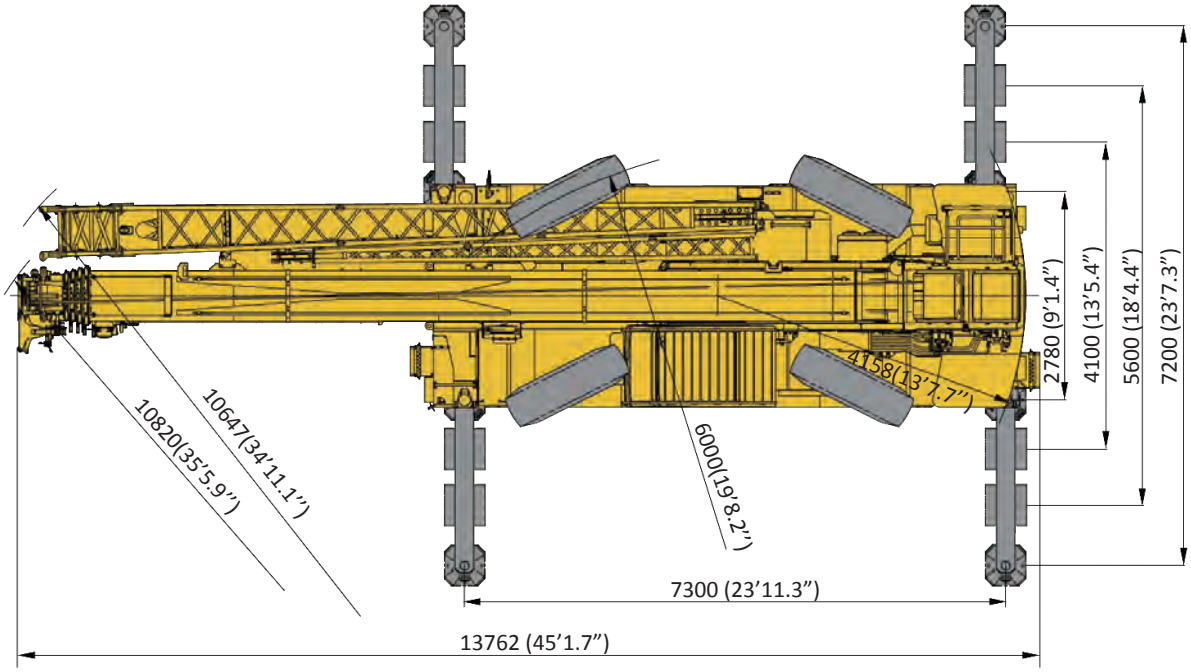
- There are 285 control nodes; automatic inspection and automatic diagnosis can be shown in real-time on the display. The fault diagnosis rate can reach 76%.
- One key searching on the touch screen with quick and convenient operation.



Fault self-diagnosis system




11300-43600(37'0.8"-143')
3590(11'9.3")
1612(5'3.4")
26°
445(1'5.5")
20.5°
220(8.6")
7300(23'11.3")
5264 (17'3.2")
2104(6'10.8")
3850(12'7.5")
2544(8'4.1")


2780 (9'1.4")
4100 (13'5.4")
5600 (18'4.4")
7200 (23'7.3")
4158(13'7.7")
10820(35'5.9")
10647(34'11.1")
6000(19'8.2")
7300 (23'11.3")
13762 (45'1.7")

TECHNICAL SPECIFICATIONS

Boom	1 base boom section and 4 telescoping sections, U-shape cross section welding structure. Dual-cylinder wire-rope-type telescoping mechanism. 6 sheaves on boom head are standard. Boom length: 11.3m(37.1ft)~43.6m (143.0 ft).	●
Jib	Two-section lattice structure. Three offset angles of 0°, 15° and 30° are available. It is stowed along the side of the boom. Jib length: 9.2 m(30.2 ft)~16 m(52.5 ft).	●
Frame	Made of high strength fine grained steel, welded torsion-resistant frame type construction with large cross-section, high load-bearing capacity.	●
Outriggers	4 outriggers are arranged in H shape, located at both sides of chassis frame, controlled by hydraulic valves and the cylinders are controlled by electric signals.	●
Engine	QSB6.7, in line, six-cylinder water-cooled compression ignition diesel engine, manufactured by Cummins, US, with rated power of 194/2200(kW/(r/min)) (260/2200(bhp/(r/min))), Maximum torque of 990/1500(N.m/(r/min))(730/1500(lb-ft/(r/min))), U.S. EPA Tier 4F emission standard compliant Fuel tank capacity: approx. 305 L(80.52 gal).	●
Transmi-ssion	6WG210, automatic transmission from ZF Germany, with 6 forward and 3 reverse gears.	●
Axles	Both front and rear axles are for driving and steering, and the axles have features of great load bearing capacity.	●
Suspension	Front axle is connected to the frame in the locked state. The rear axle is attached to the swing-type hydraulic suspension. During highway driving operation, shock absorption function is activated, which buffers the road shock. When driving with a suspended load, rear suspension cylinder is locked to blocked state to enhance operation stability.	●
Tires	4 specialized off-road tires. Each axle is equipped with a single tire, with large load bearing capacity. Tire specifications: 23.5-25.	●
Steering	Independent front axle steering, tight-turning radius steering, crab steering and independent rear axle steering modes are available. The steering angle can be self-adjusted when changing mode.	●
Brakes	Service brake: dual-circuit hydraulic disc brake, acting on all wheels. Automatically braking and alarm are available when the pressure in braking system is too low. Parking brake: spring-loaded, hydraulic-released independent disc brake, acting on the front axle.	●
Hydraulic system	The dual-variable piston pump is used for lifting, luffing and telescoping operations. The gear pump is used for slewing, outrigger, steering and braking operations. The main valve is adopted a load sensitive proportional multi-way change valve; an independent hydraulic oil cooler is fitted. Tank capacity: approx. 864 L(228 gal).	●
Control system	Hydraulically controlled pilot control system is equipped with two levers controlling the main movements of the crane, by which speed may be felt.	●

		
Electrical system	24 V DC, two sets of 12 V battery in series. LMI, head lights, steering lights, backup lights, turntable lights, boom lights and slewing beacon lights are equipped.	●
Main and auxiliary winch system	The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake and a counterbalance valve equipped.	●
Slewing system	Single-row four-point ball contact slewing bearing, driven by a hydraulic motor, with built-in planetary gear reducer and constant closed brake equipped.	○
Cab	Tiltable cab, with sliding door and adjustable seat equipped. It is equipped with safety glass and roof protective grilles. Sun screen is available for windshield and roof window. Heater and air conditioner, audio system and 12/24V power ports are configured.	●
Operational aids	Hydraulic counterbalance valve, hydraulic relief valve, hydraulic double-way lock and LMI. Lowering limiter is equipped in winch to prevent rope over-releasing. Anti-two block is fitted on the boom head to prevent rope over-winding.	●
Counter-weight	Fixed counterweight of 7.5 t(16535 lb).	●
Hook block	55 t(60 USt)hook block, 5 t(5.5USt)hook block.	●

Other items of equipment available on request.

● ——Standard configuration;

○ ——optional configuration.

WEIGHTS

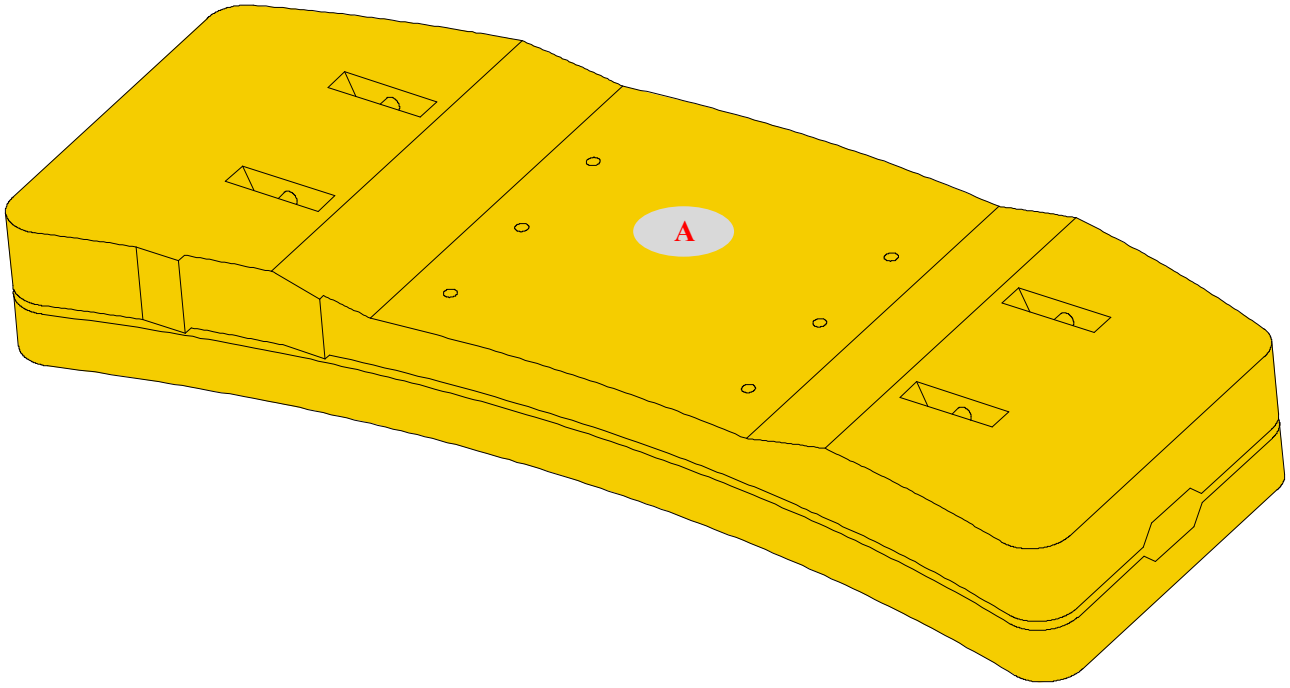
CONFIGURATION	WEIGHTS	FRONT AXLE	REAR AXLE
Basic configuration weight	32608 kg(71,887.6 lb)	21818 kg(48,100 lb)	10790 kg(23,787.6 lb)
Add: 7.5tonne (16535 lb) counterweight	7500 kg(16,535 lb)	-3370 kg(-7429 lb)	10870 kg(23,964 lb)
Add: Jib	1042 kg(2,297.2 lb)	1630 kg(3,593.5 lb)	-588 kg(-1,296.3 lb)
Add: 55 tonne (60USt) hook block(Fixed in front of the crane)	550 kg(1,213 lb)	1114 kg(2,456 lb)	-564 kg(-1,243 lb)
Add: 5 tonne (5.5 USt) hook block(Fixed in front of the crane)	100 kg(220.5 lb)	127 kg(280 lb)	-27 kg(-59.5 lb)

HOOK BLOCK	PARTS OF LINE	WEIGHT KG(LB)	REMARKS
55 t (60 USt)	12	550 (1,213)	Single-hook
5 t (5.5 USt)	1	100 (220.5)	Single-hook

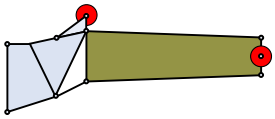
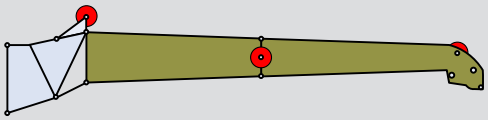
23.5-25	35 km/h (21.7 mph)	86%

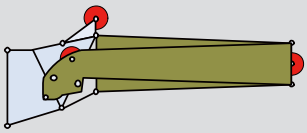
	Max		F	Φ	
1	0-150 m/min (0-492.1 ft/min)	no load, 4th layer	51 kN (11,473 lb)	18 mm (0.7085 in)	192 m (629.8 ft)
2	0-130 m/min (0-426.5 ft/min)	no load, 4th layer	51 kN (11,473 lb)	18 mm (0.7085 in)	130 m (426.4 ft)
	0-1.5 r/min				
	Approx. 45 s for boom luffing from -1.5° to 80°				
	Approx. 80 s for boom extending from 37.1 ft to 143.0 ft				

COUNTERWEIGHT



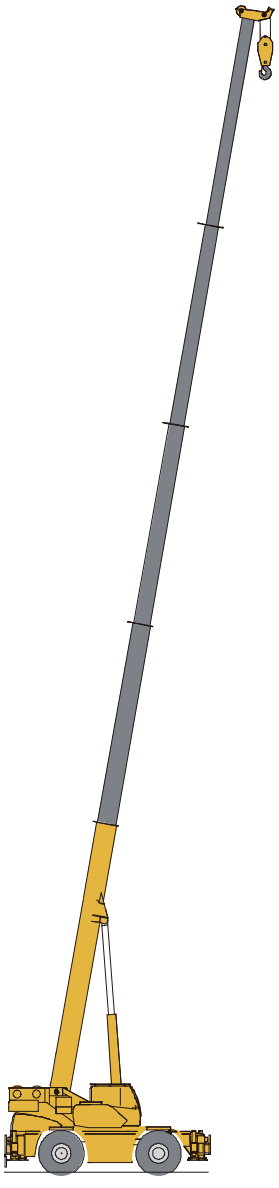
COUNTERWEIGHT	A
Dimensions (L×W×H) mm (ft)	2980×1253×380 (9.8×4.1×1.2)
Weight t (lb)	7.5 (16,535)

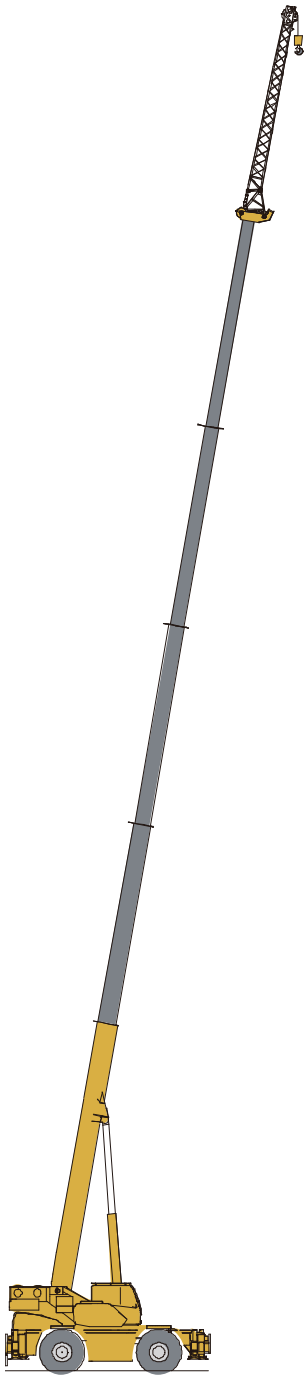
Jib – 9.2 m (30.2 ft)	
Jib – 16 m (52.5ft)	

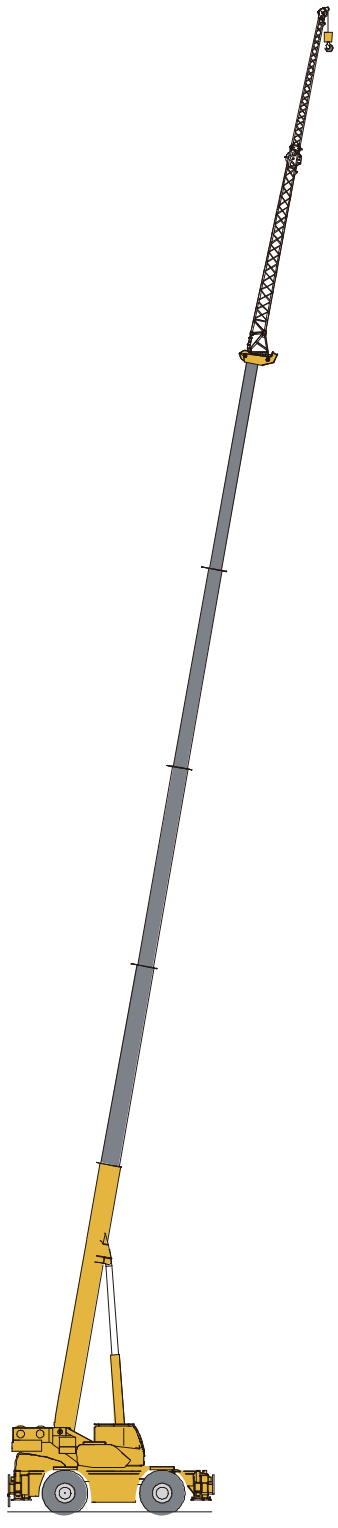
COMPONENT	STRUCTURE	DIMENSIONS (L×W×H) mm (ft)	WEIGHT kg (lb)
1st and 2nd jib section assembly + connecting bracket		Folded: 9784×950×1263 (32.1×3.1×4.1)	1172 (2,584)

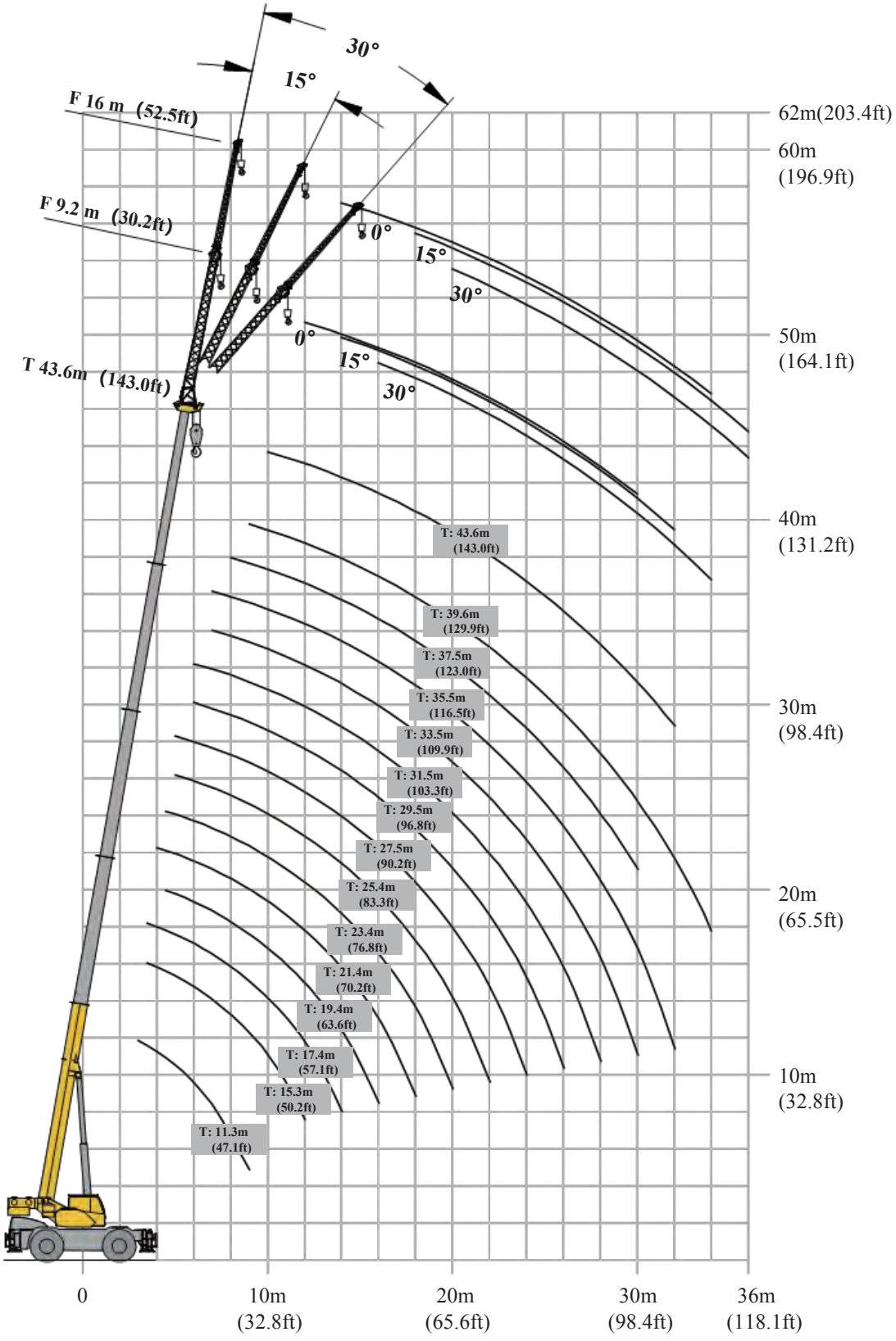
BOOM / JIB COMBINATIONS

BOOM	BOOM + ONE JIB SECTION	BOOM + TWO JIB SECTIONS
11.3~43.6m (37.1~143.0ft)	43.6m+9.2m (143.0ft+30.2ft)	43.6m+16 m (143.0ft+52.5ft)





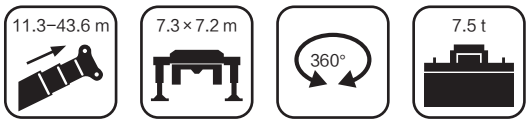



30°
15°
F 16 m (52.5ft)
F 9.2 m (30.2ft)
T 43.6m (143.0ft)
0°
15°
30°
0°
15°
30°
62m(203.4ft)
60m
(196.9ft)
50m
(164.1ft)
40m
(131.2ft)
30m
(98.4ft)
20m
(65.5ft)
10m
(32.8ft)
T: 43.6m (143.0ft)
T: 39.6m (129.9ft)
T: 37.5m (123.0ft)
T: 35.5m (116.5ft)
T: 33.5m (109.9ft)
T: 31.5m (103.3ft)
T: 29.5m (96.8ft)
T: 27.5m (90.2ft)
T: 25.4m (83.3ft)
T: 23.4m (76.8ft)
T: 21.4m (70.2ft)
T: 19.4m (63.6ft)
T: 17.4m (57.1ft)
T: 15.3m (50.2ft)
T: 11.3m (47.1ft)
0
10m
(32.8ft)
20m
(65.6ft)
30m
(98.4ft)
36m
(118.1ft)

LOAD CHARTS

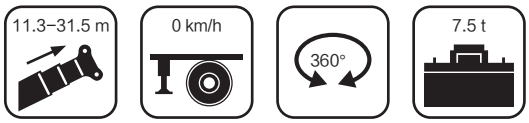
T 11.3~43.6 m

ASME B30.5 85% **Units:t**



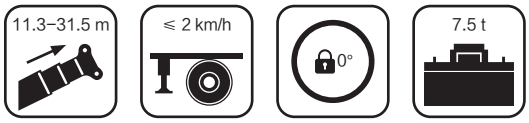
	11.3	15.3	17.4	19.4	21.4	23.4	25.4	27.5	29.5	31.5	33.5	35.5	37.5	39.6	43.6	
3	55															3
3.5	51.5	45	24													3.5
4	47.5	43	24		24											4
4.5	43	40	24	33	24	25										4.5
5	41.5	37.5	24	31.5	24	25	22.5	24.5								5
6	31	33	24	25	24	23.2	22.5	24.5	16.5	17.5						6
7	27.6	27	24	22.5	24	21.6	19	23.2	15.4	17.5	15.9	12.3				7
8	21.5	23.2	24	20.5	23	20.2	16.6	21.8	14.2	16.5	15	11.7	12			8
9	16.3	18.1	20.2	17.7	19.5	18.8	14.7	20.3	13.2	13.5	14.1	11	11.2	11.1		9
10		14.5	16.5	14.2	15.9	17.2	12.6	16.6	12.2	10.5	13.2	10.4	8.7	10.4	9	10
12		9.9	11.7	9.6	11.2	12.3	10.8	11.8	10.6	9.5	12.3	9.4	8.2	9.7	7.4	12
14			8.7	6.8	8.2	9.3	7.9	8.9	9.7	8.5	9.3	8.3	7.3	9.5	6.5	14
16				4.8	6.2	7.3	5.9	6.8	7.6	6.5	7.2	7.9	6.6	7.4	5.9	16
18					4.8	5.8	4.5	5.4	6.1	5	5.7	6.4	5.4	5.9	5.7	18
20						4.7	3.4	4.3	5	3.9	4.6	5.3	4.3	4.8	4.6	20
22							2.5	3.4	4.1	3.1	3.7	4.4	3.4	3.9	3.7	22
24								2.7	3.4	2.4	3	3.7	2.7	3.2	3	24
26									2.8	1.8	2.5	3.1	2.1	2.6	2.4	26
28										1.3	2	2.6	1.7	2.1	1.9	28
30											1.5	2.2	1.3	1.7	1.5	30
32												1.8		1.4	1.1	32
34														1.1		34

T 11.3~31.5 m
ASME B30.5 85% **Units:t**



	11.3	15.3	19.4	25.4	31.5	
4	10.8	8.8	8.5			4
4.5	9.1	7.4	7.1			4.5
5	7.7	6.3	6	7		5
5.5	6.6	5.4	5.1	6.1		5.5
6	5.7	4.6	4.4	5.3	5.8	6
6.5	4.9	4	3.7	4.6	5.1	6.5
7	4.2	2.9	2.6	3.5	4	7
7.5	3.1	2.1	1.8	2.7	3.1	7.5
8				1.4	1.9	8
9					1.1	9

T 11.3~31.5 m
ASME B30.5 85% **Units:t**



	11.3	15.3	19.4	25.4	31.5	
3	10.6					3
3.5	9.4	9.1	8.8			3.5
4	8.3	8	7.8			4
4.5	7.4	7.1	6.9			4.5
5	6.6	6.3	6.1	6.8		5
5.5	5.9	5.6	5.4	6.1		5.5
6	5.2	5	4.7	5.5	6	6
6.5	4.7	4.4	4.2	4.9	5.4	6.5
7	4.2	3.9	3.7	4.4	4.9	7
7.5	3.2	3	2.8	3.6	4	7.5
8		2.3	2.1	2.9	3.3	8
9		1.1		1.7	2.2	9
10					1.3	10

LOAD CHARTS

J 9.2-16 m

ASME B30.5 85% **Units:t**



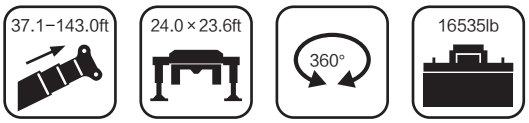
	43.6 +9.2			
	0°	15°	30°	
12	5.0			12
14	4.8	3.2		14
16	4.5	3.1	2.5	16
18	4.0	3.0	2.4	18
20	3.2	2.9	2.2	20
22	2.6	2.7	2.2	22
24	2.1	2.3	2.0	24
26	1.7	1.9	1.9	26
28	1.4	1.5	1.8	28
30	1.1	1.2	1.6	30
32		0.9	1.2	32
34			0.9	34



	43.6 +16			
	0°	15°	30°	
14	2.9			14
16	2.8			16
18	2.7	1.9		18
20	2.5	1.8	1.3	20
22	2.3	1.7	1.2	22
24	2.1	1.5	1.2	24
26	1.9	1.4	1.2	26
28	1.7	1.3	1.1	28
30	1.6	1.3	1.1	30
32	1.2	1.2	1.0	32
34	0.9	1.2	1.0	34
36		1.0	0.8	36

T 37.1~143.0 ft

ASME B30.5 85% **Units: lb**

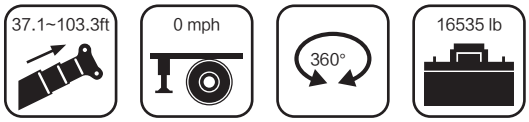


	37.1	50.2	57.1	63.6	70.2	76.8	83.3	90.2	96.8	103.3	109.9	116.5	123.0	129.9	143.0	
9.8	120,000															9.8
11.5	113,537	99,207	52,910													11.5
13.1	104,719	94,798	52,910		52,910											13.1
14.8	94,798	88,184	52,910	72,752	52,910	55,115										14.8
16.4	91,491	82,673	52,910	69,445	52,910	55,115	49,604	54,013								16.4
19.7	68,343	72,752	52,910	55,115	52,910	51,147	49,604	54,013	36,376	38,581						19.7
23.0	60,847	59,524	52,910	49,604	52,910	47,619	41,887	51,147	33,951	38,581	35,053	27,117				23.0
26.2	47,399	51,147	52,910	45,194	50,706	44,533	36,596	48,060	31,305	36,376	33,069	25,794	26,455			26.2
29.5		39,903	44,533	39,021	42,990	41,446	32,408	44,753	29,101	29,762	31,085	24,251	24,692	24,471		29.5
32.8		31,967	36,376	31,305	35,053	37,919	27,778	36,596	26,896	23,148	29,101	22,928	19,180	22,928	19,841	32.8
39.4		21,826	25,794	21,164	24,692	27,117	23,810	26,014	23,369	20,944	27,117	20,723	18,078	21,385	16,314	39.4
45.9			19,180	14,991	18,078	20,503	17,416	19,621	21,385	18,739	20,503	18,298	16,094	20,944	14,330	45.9
52.5				10,582	13,669	16,094	13,007	14,991	16,755	14,330	15,873	17,416	14,550	16,314	13,007	52.5
59.1					10,582	12,787	9,921	11,905	13,448	11,023	12,566	14,109	11,905	13,007	12,566	59.1
65.6						10,362	7,496	9,480	11,023	8,598	10,141	11,684	9,480	10,582	10,141	65.6
72.2							5,512	7,496	9,039	6,834	8,157	9,700	7,496	8,598	8,157	72.2
78.7								5,952	7,496	5,291	6,614	8,157	5,952	7,055	6,614	78.7
85.3									6,173	3,968	5,512	6,834	4,630	5,732	5,291	85.3
91.9										2,866	4,409	5,732	3,748	4,630	4,189	91.9
98.4											3,307	4,850	2,866	3,748	3,307	98.4
105.0												3,968		3,086	2,425	105.0
111.5														2,425		111.5

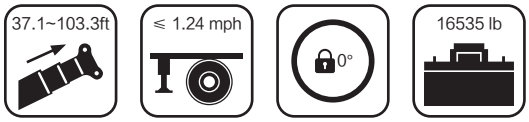
LOAD CHARTS

T 37.1~103.3 ft

ASME B30.5 85% **Units: lb**



	37.1	50.2	63.6	83.3	103.3	
9.8	23,369					9.8
11.5	20,723	20,062	19,400			11.5
13.1	18,298	17,637	17,196			13.1
14.8	16,314	15,653	15,212			14.8
16.4	14,550	13,889	13,448	14,991		16.4
18.0	13,007	12,346	11,905	13,448		18.0
19.7	11,464	11,023	10,362	12,125	13,228	19.7
21.3	10,362	9,700	9,259	10,803	11,905	21.3
23.0	9,259	8,598	8,157	9,700	10,803	23.0
24.6	7,055	6,614	6,173	7,937	8,818	24.6
26.2		5,071	4,630	6,393	7,275	26.2
29.5		2,425		3,748	4,850	29.5
32.8					2,866	32.8



	37.1	50.2	63.6	83.3	103.3	
13.1	23,810	19,400	18,739			13.1
14.8	20,062	16,314	15,653			14.8
16.4	16,975	13,889	13,228	15,432		16.4
18.0	14,550	11,905	11,243	13,448		18.0
19.7	12,566	10,141	9,700	11,684	12,787	19.7
21.3	10,803	8,818	8,157	10,141	11,243	21.3
23.0	9,259	6,393	5,732	7,716	8,818	23.0
24.6	6,834	4,630	3,968	5,952	6,834	24.6
26.2				3,086	4,189	26.2
29.5					2,425	29.5

J 30.2-52.5 ft

ASME B30.5 85% **Units: lb**



	143.0 ft+30.2ft			
	0°	15°	30°	
39.4	11,023			39.4
45.9	10,582	7,055		45.9
52.5	9,921	6,834	5,512	52.5
59.1	8,818	6,614	5,291	59.1
65.6	7,055	6,393	4,850	65.6
72.2	5,732	5,952	4,850	72.2
78.7	4,630	5,071	4,409	78.7
85.3	3,748	4,189	4,189	85.3
91.9	3,086	3,307	3,968	91.9
98.4	2,425	2,646	3,527	98.4
105.0		1,984	2,646	105.0
111.5			1,984	111.5



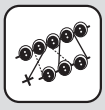
	143.0 ft+52.5 ft			
	0°	15°	30°	
45.9	6,393			45.9
52.5	6,173			52.5
59.1	5,952	4,189		59.1
65.6	5,512	3,968	2,866	65.6
72.2	5,071	3,748	2,646	72.2
78.7	4,630	3,307	2,646	78.7
85.3	4,189	3,086	2,646	85.3
91.9	3,748	2,866	2,425	91.9
98.4	3,527	2,866	2,425	98.4
105.0	2,646	2,646	2,205	105.0
111.5	1,984	2,646	2,205	111.5
118.1		2,205	1,764	118.1

TABLE OF MAIN TECHNICAL PARAMETERS

CATEGORY	ITEM		UNIT	PARAMETER	ALLOWANCE
Dimensions	Dimensions (L×W×H)		mm (ft)	13762×3000×3590 (45.1×9.8×11.8)	±1%
	Axle spacing		mm (ft)	3850 (12.6)	±1%
	Track (front / rear)		mm (ft)	2330/2330 (7.6/7.6)	±1%
	Front/rear overhang		mm (ft)	2104/2544 (6.9/8.3)	±1%
	Front/rear extension		mm (ft)	5264/0 (17.3/0)	±1%
Weights	Maximum permissible total weight		kg (lb)	41800 (92,153) (7.5t (16,535 lb) counterweight)	±3%
	Axle load	Axle 1	kg (lb)	21204 (46,746)	±3%
		Axle 2	kg (lb)	20596 (45,407)	±3%
Power	Engine model		——	QSB6.7	-
	Rated power/rpm		kW/(r/min) (bhp/(r/min))	194/2200 (260/2,200)	-
	Maximum output torque/rpm		N.m/(r/min) (lb-ft/(r/min))	990/1500 (730/1,500)	-
Travel	Maximum travel speed		km/h (mph)	35 (21.7)	≥
	Minimum stable travel speed		km/h (mph)	1.8 (1.1)	≤
	Minimum turning diameter		m (ft)	≤12 (39.4)	-
	Minimum ground clearance		mm (ft)	445 (1.5)	±1%
	Approach angle		°	26	±1%
	Departure angle		°	20.5	±1%
	Braking distance (initial speed at 24km/h (14.91 mph))		m (ft)	9 (29.5)	≤
	Maximum grade ability		%	86	≥

CATEGORY	ITEM			UNIT	PARAMETER	ALLOWANCE
Main performance	Maximum rated lifting capacity			t (USt)	55 (60)	±5%
	Minimum rated working radius			m (ft)	3 (9.8)	±1%
	Slewing radius at turntable tail	At counterweight		mm (ft)	4158 (13.6)	±1%
	Maximum load moment	Base boom section		kN.m (lb-ft)	2033.5 (1,499,832)	±1%
		Fully-extended boom		kN.m (lb-ft)	934.9 (689,546)	±1%
	Outrigger span	Longitudinal		m (ft)	7.3 (23.9)	±1%
		Lateral		m (ft)	7.2 (23.6)	±1%
	Maximum outrigger load			kN(lb)	481.3	——
	Lifting height	Base boom section		m (ft)	11.9 (39.0)	±1%
		Fully-extended boom		m (ft)	43.7 (143.3)	±1%
		Fully-extended boom + jib		m (ft)	57.1 (187.3)	±1%
	Boom length	Base boom section		m (ft)	11.3 (37.1)	±1%
		Fully-extended boom		m (ft)	43.6 (143.0)	±1%
		Fully-extended boom + Jib		m (ft)	59.6 (195.5)	±1%
	Jib offset angle			°	0, 15, 30	±1%
Working speeds	Time for raising boom			s	45	≤
	Time for fully extending boom			s	80	≤
	Maximum slewing speed			r/min	1.5	≤
	Time for extending and retracting outriggers	Outrigger beams	Retracting	s	20	≤
			Extending	s	30	≤
		Outrigger jacks	Retracting	s	30	≤
			Extending	s	35	≤
	Lifting speed (single line, 4th layer, no load)	Main winch		m/min (fpm)	150 (492.1)	≥
		Auxiliary winch		m/min (fpm)	130 (426.5)	≥

DESCRIPTION OF SYMBOLS

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

	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

	Maximum single line pull
	Maximum working speed
	Main winch
	Auxiliary winch
	Chassis
	Outrigger span
	Tires
	Axle load
	Grade ability
	Travel speed
	Luffing
	EN 13000 standard

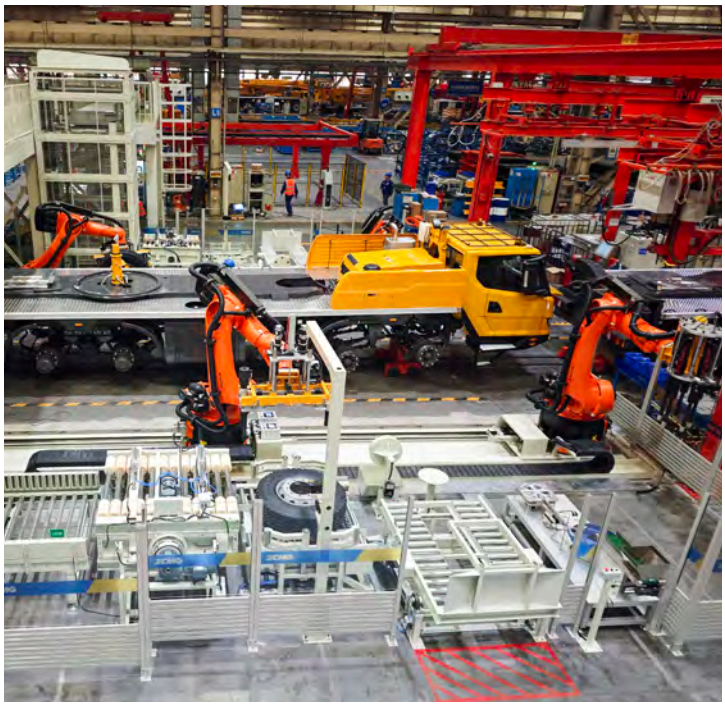
	Maximum lifting height
	Maximum working radius
	Super lift
	Wind power jib
	Telescoping
	Slewing
	360° slewing
	360° slewing with the 5th jack down
	Side and rear operation
	Operation over front
	Crane on tires

CONSISTANT SAFE AND RELIABLE MACHINES

G-SAFE LIFE CYCLE SAFE QUALITY

INTELLIGENT ENGINEERING AND MANUFACTURING LEADS TO QUALITY

- Starting with digital models, XCMG is leading the way with intelligent and quality manufacturing technologies. Integrating process simulation and the latest simulation technologies we have creating a high-end manufacturing platform that combines manufacturing and processes to supply the best cranes.



INTELLIGENT AND CONSISTANT ASSEMBLING



AUTOMATED PAINTING TO INSURE CONSITANT QUALITY



DIGITIZED WELDING AND MACHINING



DIGITAL AUTOMATED PROCESS FLOWS

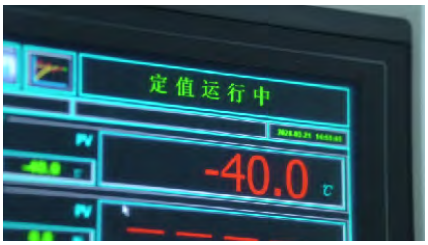


UNMANNED AUTOMATIC WELDING

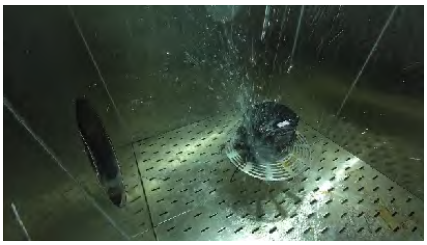
PARTS AND COMPLETE MACHINE TESTING

- Each new technology and component is required to meet the most stringent design and quality protocols.
- Each complete machine undergoes rigorous run in and testing, components are subject to ongoing testing.

OVER 2,000 COMPONENTS FROM 123 MANUFACTURES UNDERGOING LIFE CYCLE TESTING



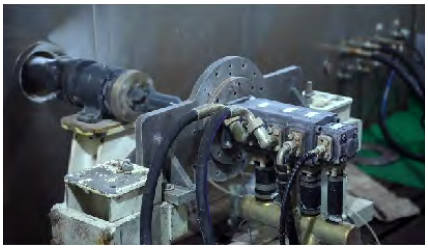
HMI display
Low-temperature performance test under -40 ℃



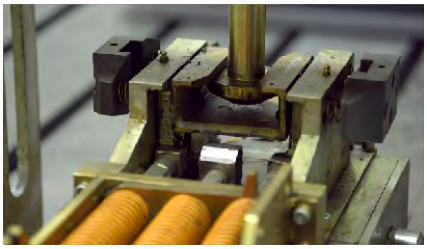
Length measurement sensor
48-hour rain test



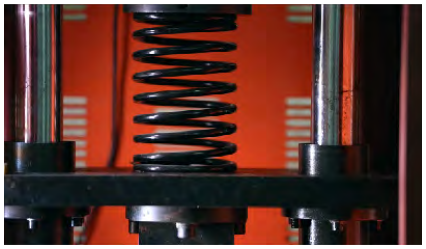
Panel buttons cycled
1.2 million times



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



Telescoping mechanism
Smoothness test



Telescoping mechanism
Smoothness test

178 POST PRODUCTION FULL-SCALE TESTS ON THE COMPLETE MACHINE









Passability



Climbing & Hill holding

Dynamic & Static lifting

NOTES FOR LIFTING

- The total rated loads given in the rated load charts are the maximum lifting capacity when the crane is set up on firm and level ground with the tires free of the ground. The weights of the hookblock, rigging and the rope between the boom tip and block must be deducted as well as optional items such as the auxiliary sheave and jib.
- The working radius shown in the rated load charts is the radius when the load is lifted off the ground, and it is the actual value including loaded boom deflection. The operator will need to take boom deflection into consideration before beginning a lifting operation.
- A lifting operation is permissible only when the wind force is below grade 5 (instantaneous wind speed is 14m/s (46.2ft/s), and wind pressure is below 124Pa (2.59lb/ft2).
- Before beginning lifting operation, the operator should know the weight of the load to be lifted and the crane's working range, and then select proper working conditions. Never operate the crane beyond the limit shown in the chart. Use the lower value from the chart when the boom length or working radius is between the range of values.
- 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 may overturn.
- The boom should be extended according to the telescoping codes shown on the load charts.

Address: 305A Equipment Ct NE
Lawrenceville, GA 30046
Email: letsgo@xcmgusa.com
Phone: 725-605-2777
Website: www.xcmg-usa.com

Do not copy without authorization!
This document is non-contractual. Constant improvement and engineering progress make it necessary that we reserve the right to make product model.specification and configuration changes without notice. Illustrations shown may include optional equipment and accessories and may not include all standard equipment. Some parts need to be purchased separately. Conform to the local laws for license application and road traveling.

XCMG
North America