



INTRODUCTION OF XCMG

XCMG is the leading construction equipment manufacture in China and is the third largest equipment manufacture in the world. In addition, XCMG ranks 305th among the worlds top brands.

XCMG builds 16 categories of equipment including cranes, excavators, concrete production and transporting, earth moving, mining, and road reclamation and paving. XCMG also produces many of its own hydraulic, power transmission, and electronic control systems components. XCMG is the top manufacture in the world of cranes, foundation machines and concrete production and distribution equipment.

XCMG's research and development groups have accumulated more than 9000 patents in China and 130 international patents. There are R&D centers and manufacturing facilitates in 10 countries including Germany, the United States, Brazil and India. The manufacturing facility in Brazil has become a model of economic cooperation between China and Brazil. XCMG exports equipment to 187 countries around the world.









With 6-section boom of 203.4 ft, the max. lifting load of 150 USt, the max. lifting height of 303.5 ft and the max. working radius of 230 ft, the 5-axle all terrain crane enjoys a high jobsite transfer performance, and leads the industry in capacity and built-in intelligence.

150 USt

JSt 230.4 ft

303.5 ft





Proven power train, excellent ride ability

- Mercedes-Benz OM471diesel engine, rated power 482.8 bhp, max. torque 1769.9 lb-ft. ZF 12-speed AMT automatic gearbox.
- Max. travel speed: 49.7 mph(14.0R25/16.0R25 tires)/43.5 mph(20.5R25 tires). Max. grade ability: 60%.



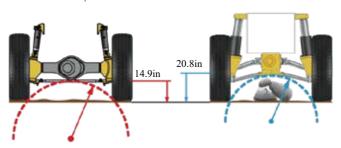


Large tonnage crane's single-engine system

One shared chassis engine is adopted for the whole crane. Power is transmitted to the superstructure hydraulically. Maintenance workload is reduced since there is only one engine. The annual maintenance cost of power system is saved by more than 40%.

Innovative heavy-duty single-transverse arm independent suspension system

The tires on left and right side move up/down separately to adapt to the road conditions, to effectively enhance the stability of steering operation at high speed and achieve excellent off-road performance when driving on the narrow road or the road with poor road conditions.



Suspension system

- Functions such as automatic leveling, moving up and down of suspension, and switching over of elastic and rigid suspension are available.
- Stroke of cylinder: -0.5 ft ~ 0.5 ft.

Brake system

- Dual circuit air disk brakes
- Spring applied, air released parking brakes on axles 2, 4 and 5
- Auxiliary: engine retarder brake, transmission retarder brake.



Driver cab

- Large color 312mm (12.3in) touch screen in the drivers cab provides for setup, information, and chassis
 configuration settings and diagnostic checking.
- Virtual driver cab instruments and chassis monitoring within easy reach of the driver provide extensive chassis information.

Operator cab

- Ergonomically designed working space makes operation safer and more comfortable.
- 10.4 in color touch screen display.
- Operator cab can be tilted up or down by 20°.







---High mobility

- All-axle steering with tight turning radius, four-axle driving is suitable for rough road traveling.
- The axles 1 and 2 are steered mechanically with hydraulic servo, and electric-control hydraulic steering is available for the axles 3, 4 and 5.
- Min. turning diameter: 59.0 ft.



5 steering modes

- The axles 1 and 2 employ mechanical control plus hydraulic servo steering, and the axles 3, 4 and 5 are electric-control hydraulic steering.
- The axles 1 and 2 have emergency steering booster system located on the transfer case.
- Easy selection of steering mode by rotary dial.
- Clear arrangement of control elements and displays.





Superb lifting performance

- 6-section pinned boom of 203.4 ft with oval profile is the longest of the same class in the industry; the performance is 5~15% higher than that of the competitors.
- The telescoping mode is updated from sequential telescoping to random telescoping. New single-cylinder pinned telescoping system brings higher telescoping reliability.





New highly efficient energy-saving hydraulic system

- Independent hydraulic systems for lifting and slewing. Stable minimum speeds and high working speeds even with maximum loads.
- Proven variable displacement pumps and motor tuned to give excellent slow speed and smooth starting and stopping performance.
- Min. stable lifting speed (at drum): 8.2 fpm; Min. stable slewing speed: 0.1°/s.







STRENGTHS AND HIGHLIGHTS

Luffing mechanism

- Single boom hoist cylinder with gravity down as well as power lowering.
- Direct acting electric proportional boom hoist balance valve with self compensating function is utilized.





Automatic working condition planning technology

 Recommend crane configuration based on load, radius and working height.



- Planetary gear reducer, normally closed brake.
- Continuous 360° slewing.
- Slewing speed: 0-1.65 r/min.





- Automatic luffing compensation technology
- With luffing compensation technology applied, the boom angle is automatically adjusted as a load is applied or removed to maintain a constant load radius.

Winch system

- Planetary gear reducer, normally closed brake.
- Max. single line pull: 19570 lb
- Max. hoisting speed (single line, no load): 426 fpm.





Hook height compensation technology

- With winch servo technology, the winches will automatically pay in or out rope depending on the conditions taking the burden off of the operator to have to stop and start telescope or luffing functions.
- The winches can be set to either maintain the hook height above the ground or to maintain the distance between the boom tip and the hook. This works while telescoping and/or luffing the boom.

TECHNICAL SPECIFICATIONS

Chassis

Frame	High strength torsion resisting box structure designed and manufactured by XCMG.
Outrigger	H-shaped outriggers, two-stage telescoping outrigger beam with push-pull outrigger floats. 0, 50 75, and 100% beam extension settings to meet different requirements. Outrigger control panel is controlled by CAN bus located on the sides of chassis. Outrigger float dimension: \$ 1.624 ft. Reaction force of outrigger at max. lifting load: 195266.5 lb.
Engine	Mercedes-Benz AG OM471LA, 6 cylinders, diesel. Rated power/rpm: 306 kw(482.8 bhp)/1600 rpm; Max. output torque/rpm: 2400 N.m(1769.9 lb-ft)/1300 rpm. Emission standard: EU Stage V /EPA Tier 4F. Fuel tank capacity:121.5 US gal.
Transmission	ZF AMT transmission with 12 forward and 2 reverse speeds. Optional retarder can be included
Alxes	5-axle chassis with disconnected axle; axles 2, 3, 4 and 5 for driving, all wheel steering.
Suspension	Advanced independent suspension technology is adopted, and the tires on left and right side move separately to adapt to the road conditions with improved stability; Hydro-pneumatic suspensions have good shock-absorbing effect and automatic leveling function. The height of chassis above the ground may be adjusted. Main reducer is attached to the frame, which can be lifted or lowered with frame, leading to improved pass ability. The stroke of suspension cylinder is -0.5 ft-0.5 ft.
Tires	11 tires, each axle is equipped with single tire, large bearing capacity. Tire specifications: 525/80R25(20.5R25).
Brakes	Dual circuit air disk brakes on all wheels with parking brake on axles 2, 4, and 5. Includes engine brake, transmission retarder and electric eddy-current retarder (optional).
Steering	Axles 1 and 2 are mechanically steering; axles 3, 4, 5 are electric-hydraulic proportional steered.

Oriver cab	Modern full width driver cab. Fitted with passenger seat, HVAC, DVD navigator, safety glass, electric windows and mirrors, multi-functional steering wheel, back up camera and full suspension system.	
Electrical system	24V DC negative ground system. 180 Amp alternator and two 12V batteries.	,
ГооІвох	Supplied spare box.	,



Superst	ructure	
Frame	Designed and manufactured by XCMG, made of high strength	steel.
Hydraulic system	Variable plunger pump and gear pump driven by chassis engir telescoping, slewing operations and auxiliary system. Electric control multi-way valve; Air-cooled hydraulic oil radiator.	ne are used for lifting, luffing,
Operating mode	Left and right electronic joy sticks control all crane movements regulation is available.	and stepless slewing speed
	Portable wireless remote control device is equipped to realize the crane.	the pre-operational work for setting up
Winch system	Lebus grooved drum driven by variable displacement piston motor through planetary gearbox with counterbalance valve and integral brake. Fitted with high strength rotation resistant rope and third	Main winch Auxiliary winch

Slewing system	Single row ball slew bearing with external teeth. Driven by a piston hydraulic motor though a planetary gear reducer with internal brake. Continuous rotation and selectable free swing mode.
Operator cab	New fully-enclosed steel cab has better sealing and anti-corrosive properties. It is equipped with a full-view front window. Safety glass and sun shield are used for windows. The cab features a new ergonomic seat design with backrest adjustment and armrests with joysticks fitted. A pull-out step is available to make it easy and safe as access and egress the cab. Wipers are fitted for the windshield and roof window. Control panel with human-machine interaction system is used in operator cab. The cab can be tilted up to 20°.
Safety devices	Counterbalance valves fitted on all cylinders and winch motors. Relief valves included in all circuits. Anti-two block and third wrap stops on winches. Full function LMI system, anemometer and winch monitoring device.
Combined counterweight	92610 lb in total, 9 counterweight combinations of 92610 lb, 67032 lb, 54905 lb, 42557 lb, 33957 lb, 21830 lb, 15656 lb, 9482 lb, 4631 lb
Centralized lubrication system	Controlled by computer program; lubrication points are at slewing ring, bearing pedestals of main winch and auxiliary winch, upper and lower pivots of luffing cylinder, pivot of tilt cylinder and rear pivor of boom.
	12.1 USt hook block
Hook block	27.6 USt hook block
TIOOK BIOOK	66.1 USt hook block
	99.2 USt hook block
	150.0 USt hook block



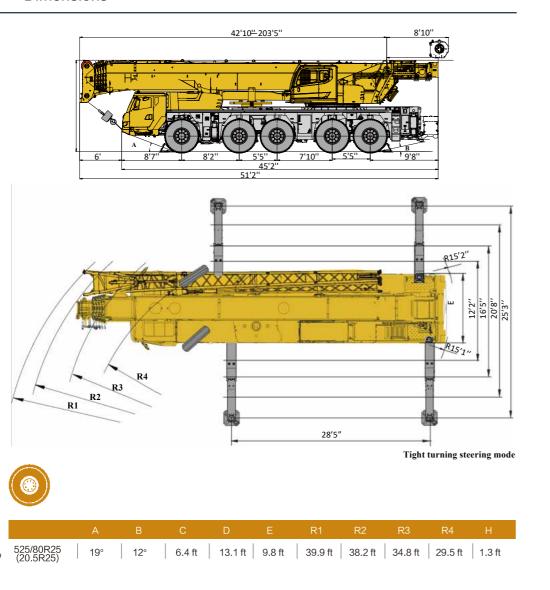
Boom	6–section boom with oval cross–section, welded structure with single–plate boom head and compact boom tail. Single–cylinder pinned telescoping system. Boom length: $43.0~\text{ft} \sim 203.4~\text{ft}$.	•
Jib	The jib consists of a connecting bracket, a rotating bracket and two lattice sections. Three offset angles of 0° , 20° and 40° are available. It is stowed along the side of the boom.	•
	Jib length: 36.1 ft, 60.7 ft stepless luffing.	0
Extension	Boom extension of 23 ft	0
Extonoion	Boom extension of 23 ft	0
Independent jib head	Independent jib head of 9.5 ft.	0
Single top	Pinned at the boom tip and able to be folded to the side when not in use. Single part of line maximic capacity of 7.7 USt.	um •

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

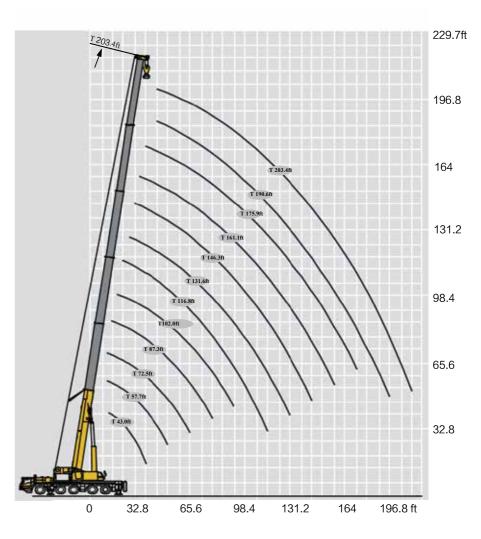
- ——it means the standard configuration;
- —it means the optional configuration.

Technical Specifications

Dimensions



Lifting heights



						43.0-	-87.3 ft	28.4×25.3 ft		92610 lb	ASME
6						11	20	Inagi	360°) <u></u>	1000lb
//B											
//←;	43.0	57.7	57.7	57.7	72.5	72.		72.5	87.3	87.3	87.3
9.8	300.0**	183.0	164.7	127.8	183.0	164	.7	136.0			
11.5	222.7*	183.0	159.9	120.9	183.0	162	.7	130.1			
13.1	205.0*	183.0	157.9	114.6	183.0	161	.2	124.2	147.7	133.0	129.8
14.8	189.6*	183.0	156.1	109.3	180.8	160	.3	118.5	147.7	133.0	124.9
16.4	178.6	174.2	149.9	104.3	169.8	154	.8	113.6	147.7	133.0	120.0
19.7	156.6	152.1	140.9	95.6	149.9	136	.9	104.8	145.5	133.0	111.8
23.0	136.7	136.7	125.0	88.2	134.5	123		97.8	130.1		104.5
26.2	121.3	123.5		82.0	121.3	-			116.9		
			113.1			111		91.6			98.6
29.5	103.6	110.3	103.2	76.9	110.3	101		85.3	105.8		92.9
32.8	83.8	100.5	93.1	71.9	99.2	93.3	3	79.1	97.0	91.3	88.0
39.4		81.1	75.8	64.7	81.6	76.4	4	68.1	80.9	76.0	77.5
45.9		59.5	57.6	59.0	66.6	62.7	7	60.0	65.7	62.3	69.1
52.5					53.6	51.2	2	53.7	52.9	50.8	58.2
59.1					44.3	42.9	9	48.1	43.7	42.5	48.7
65.6									36.4	36.1	41.5
72.2						-			30.9	31.0	35.7
78.7									22.1	24.3	26.5
Code	00000	00100	00010	00001	01100	001	10	00011	11100	0 01110	00111
						102.0-	-131.6 ft	28.4 × 25.3 ft		92610 lb	ASME
						7.1	B	نصا	360°) =	
/371							T		* 4		10001Ь
1/ 8	102.0	102.0	102.0	116.8	116.		116	0 10	31.6	131.6	131.6
16.4	127.9	102.0	102.0	110.0	110.	.0	110	.0 13	01.0	131.0	131.0
19.7	127.9	116.6	95.7	110.3	105.	.4	86.9)			
23.0	127.9	109.6	87.2	110.3	97.5		84.5	5 92	2.6	92.6	70.6
26.2	116.9	103.7	79.0	107.5		_	79.2		2.6	92.1	66.1
29.5	105.8	98.8	72.6	102.2	83.3	-	73.6		2.6	86.2	62.4
32.8	97.0	93.9	67.4	97.0	77.2	-	68.7		3.8	77.8	59.1
39.4 45.9	82.5 67.7	85.1 70.8	58.7 52.0	83.8 69.5	66.2 58.6	_	64.7 58.0		5.0	68.3 61.2	52.7 47.6
52.5	54.7	57.8	46.3	56.7	52.2	-	52.0		5.8	55.5	43.6
59.1	45.4	48.3	41.7	47.2	47.3	-	47.2		5.3	47.0	39.9
65.6	38.4	41.0	38.0	39.9	40.8	_	43.2		9.2	39.9	37.0
72.2	32.6	35.5	35.0	34.4	35.1		38.1		3.5	34.2	34.3
78.7	28.2	30.9	31.5	29.8	30.6	-	33.1		9.1	29.8	31.1
85.3	24.5	27.1	27.8	26.0	26.9	-	29.1		5.4	26.0	27.3
91.9	22.7	25.4	26.0	22.9	23.6	-	25.8		2.3	22.9	24.3
98.4 105.0		+	+	20.3	20.9 17.6		22.9		7.2	20.1 17.9	21.6 19.2
111.6				17.6	17.6	<u>'</u>	20.5		5.2	17.9	17.2
118.1						\rightarrow			3.5	14.1	15.4
						\rightarrow		- 1	-		

^{**} Capacity class * with special equipment.

						146.3-203.	4ft 28.4×25.3	360°	92610 lb	ASME
18						T		* *		10001Ь
A S	146.3	146.3	146.3			161.1	175.9	175.9	190.6	203.4
26.2	72.1	69.9	52.9							
29.5	72.1	68.1	50.1	55.3	53.4	47.0				
32.8	70.4	64.6	47.4	55.3	53.4	45.2	41.2	39.9		
39.4	61.0	58.4	42.6	55.3	50.5	41.5	39.2	39.9	32.4	25.9
45.9	53.0	52.9	38.6	49.8	46.3	38.4	37.0	39.9	32.2	26.0
52.5	47.3	47.8	35.1	44.3	41.9	35.3	34.7	36.7	32.0	26.0
59.1	42.1	43.8	32.2	39.2	37.4	32.6	32.4	32.9	31.2	25.8
65.6	37.9	39.9	29.5	35.5	34.0	30.2	30.5	30.0	28.4	25.8
72.2	33.5	34.6	27.6	32.1	30.9	28.2	28.2	27.1	25.5	23.4
78.7	29.1	30.2	25.5	29.1	28.2	26.5	25.8	24.8	23.2	21.2
85.3	25.4	26.5	23.9	25.8	25.8	24.7	23.6	22.8	21.2	19.4
91.9	22.1	23.2	22.3	22.5	23.8	23.3	21.6	21.1	19.6	17.9
98.4	19.4	20.5	21.1	19.8	21.2	22.0	19.8	19.6	18.1	16.5
105.0	17.2	18.3	19.8	17.6	19.0	20.1	18.3	18.1	16.7	15.0
111.6	15.2	16.3	17.9	15.7	17.0	18.1	16.3	16.9	15.4	14.1
118.1	13.5	14.6	16.1	13.9	15.2	16.3	14.6	15.7	14.3	13.0
124.7	11.9	13.0	14.6	12.3	13.7	14.8	13.0	14.6	13.3	12.1
131.2	10.4	11.5	13.2	10.8	12.1	13.2	11.7	13.0	12.3	11.2
137.8				9.7	11.0	12.1	10.4	11.9	11.2	10.3
144.4				8.6	9.9	11.0	9.3	10.6	9.9	9.5
150.9							8.2	9.7	9.0	8.8
157.5							7.3	8.6	7.9	8.2
164.1									7.3	7.3
170.6									6.4	6.4
177.2									5.7	5.7
183.7										5.1
190.3										3.5
Code	22111	12211	11122	22211	12221	11222	22221	12222	22222	33333

Performance parameter

Category	Item		Unit	Parameter
	Dimension (length × width × heigh		ht) ft	50.1 × 9.3 × 13.1 (20.5R25)
Dimensions	Whee	l base	ft	8.2+5.4+7.9+5.4
	Track (Fro	ont/ Rear)	ft	7.6 (20.5R25)
	Front/ Rea	r overhang	ft	8.6/8.9
	Front/ Rea	r extension	ft	6/0
	Max. permissil	ole total weight	lb	132275
		1st axle	lb	26455
Weight		2nd axle	lb	26455
	Axle load	3rd axle	lb	26455
		4th axle	lb	26455
		5th axle	lb	26455
	Engine mo	odel		OM471LA
Power	Engine rated power/rpm		bhp/rpm	482.8/1600
	Max. net power/rpm		bhp/rpm	482.81600
	Engine rated torque/rpm		lb-ft/rpm	1769.9/1300
	Max. travel s	speed	mph	49.7(20.5R25)
	Min. stable trav	el speed	mph	1.86
	Min. turning d	iameter	ft	≤59.0 (Tight-turning radius mode, five-axle steering); ≤72.2 (Normal road mode, five-axle steering)
Travel	Min. turning diamete	er at boom tip	ft	≤76.4 (Tight-turning radius mode, five-axle steering); ≤89.2 (Normal road mode, five-axle steering)
	Min. ground cl	earance	ft	1.3 (16.0R25/20.5R25)
	Approach a	angle	0	19 (16.0R25/20.5R25)
	Departure a	angle	0	15 (16.0R25/20.5R25)

Category	Ite	m	Unit	Parameter	
	Max. total rated lift	ing capacity	USt	150	
	Min. rated worki	ing radius	ft	9.8	
	Tail swing at	Counterwe	ight	ft	16.3/14.9
	turntable tail	Auxiliary w	rinch	ft	16.4
	_	Base boo	om	lb-ft	3183000
	Max. load moment	Fully-extende	d boom	lb-ft	1692000
		Fully-extended by	oom + Jib	lb-ft	1284000
Performance	Outrigger span	Longitud	inal	ft	28.4
	Odingger span	Latera	I	ft	12.1/16.4/20.7/25.3
		Base boo	om	ft	39.7
	Hoist height	Fully-extende	d boom	ft	201.7
		Fully-extended by	oom + Jib	ft	303.5
		Base boo	om	ft	43.0
	Boom length	Fully-extende	d boom	ft	203.4
		Fully-extended by	oom + Jib	ft	310.1
	Jib	offset angle		o	0, 20, 40
	Воо	m raising time		S	≤65
	Boom fu	ully extended time		S	≤630
	Sle	ewing speed		rpm	≥1.65
Working		Outrigger beam	Retracting	S	≤25
speed	Outrigger extending	Outrigger bearing	Extending	S	≤20
	and retracting time	Outrigger jack	Retracting	S	≤55
		Jan 1990 Jack	Extending	s	≤45
	Hoisting speed	Main winch		fpm	≥426
	(single line, 4th layer, no load)	Auxiliary winch		fpm	≥426

Optimum Services, XCMG Guaranteed













XCMG approved attachments

Genuine parts

Financial solutions

Maintenance contract

Telematics



Full Range of Services Ready for you

In order to respond to your needs as fast as possible, XCMG experts can be dispatched to your job site from a facility near you. A full range of services are available to reduce your total cost of ownership and increase your revenue.

Professional Integrated Complete Solutions

XCMG group has built a strong reputation based on the quality, reliability and durability of its construction machinery. XCMG has established a world wide service and parts network to provide support to every customer regardless of location.

XCMG Global Spare parts System

