



ALL TERRAIN CRANE XCA130_E

FIVE-AXLE OPTIMA

 130 t  62 m  72 m  92.5 m





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



Intelligent five-axle all terrain crane with high jobsite transfer performance

It is suitable for lifting and installation projects in construction engineering, petroleum, chemical industry, bridge engineering and other industries. It has a wide range of applications with excellent driving performance, strong lifting capacity, flexible mobility and wide operation range.

Super long boom and jib for superior performance

With six-section boom of 62 m, the maximum lifting capacity of 130 t and the maximum lifting height of 92.5 m, its performance takes the lead comprehensively. With the function of telescoping with load, it offers wide construction range.

The intelligent boom and jib technology integrates functions such as load planning, automatic luffing compensation and automatic spooling in/out of winch rope, and the most intelligent OM planning and operation safety protection can be provided.

Precise and smooth lifting operation

New energy-saving hydraulic system offers accurate speed control for winch, slewing, luffing and telescoping movements. The minimum stable slewing speed is 0.1°/s and the minimum stable lifting speed is 2.5 m/min. It can easily realize fast lifting for light load and stable lifting for heavy load with large torque, which can fully meet the user's precise lifting operation needs.

Excellent driving performance, efficient and economical jobsite transfer

The width of the vehicle is 2.75 m with all-wheel steering. The innovative heavy-duty single-transverse arm independent suspension system is also applied with the strongest off-road capability.

Under 82.5 t heavy-load jobsite transfer configuration, 25.4 t counterweight, jib and 60 t hook block can be carried, meeting the demands of over 40% of operation modes and reducing transportation costs.

The application of convenient wireless remote control technology allows for remote control of outrigger, winch, luffing, counterweight assembly and jib folding/unfolding operations, realizing one-man operation.

Premium quality, high-end and comfortable

G-star cabs: new styling, extra-large space, large field of view, generous storage space and diverse configurations provide delicate craft and comfortable driving experience.

Access is reasonably planned for convenient operation and maintenance.



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SUPER LONG BOOM AND JIB FOR SUPERIOR PERFORMANCE

LONGEST REACH FOR FULLY-EXTENDED BOOM IN ITS CLASS WITH THE LARGEST WORKING RANGE AND LEADING LIFTING PERFORMANCE

- With six-section boom of 62 m, the maximum lifting capacity of 130 t and the maximum lifting height of 92.5 m, its performance takes the lead comprehensively.
- It is suitable for lifting and installation projects in construction engineering, petroleum, chemical industry, bridge engineering and other industries.



BOOM TELESCOPING WITH LOAD TECHNOLOGY

- The boom can safely perform telescoping operation with load at any point within OM ranges; the construction range is wide, and the working efficiency is improved by 30%-50% for safe and reliable lifting operations.

The OMs of telescoping with load are available for scenarios with space limited in height.



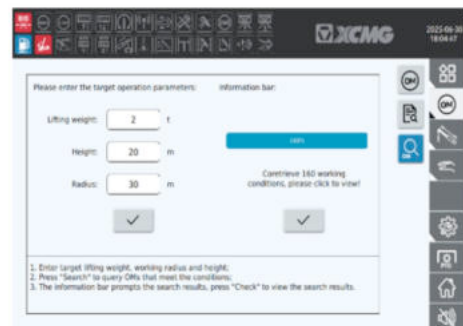
INTELLIGENT BOOM AND JIB SYSTEM

- The intelligent boom and jib technology integrates functions such as load planning, automatic luffing compensation and automatic spooling in/out of winch rope, and the most intelligent OM planning and operation safety protection can be provided.



LOAD PLANNING

- Automatically recommend the most suitable operation modes
- The progress of searching and setting the operation mode is simplified.



AUTOMATIC LUFFING COMPENSATION

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



HOOK HEIGHT COMPENSATION

- With hook height compensation, the winches will automatically pay in or out rope depending on the conditions, reducing the operation time by more than 40%.
- The winches can be set to either maintain the hook height above the ground or to maintain the distance between the boom head and the hook, that is, luffing-ground mode, telescoping-ground mode, and telescoping-boom head mode.

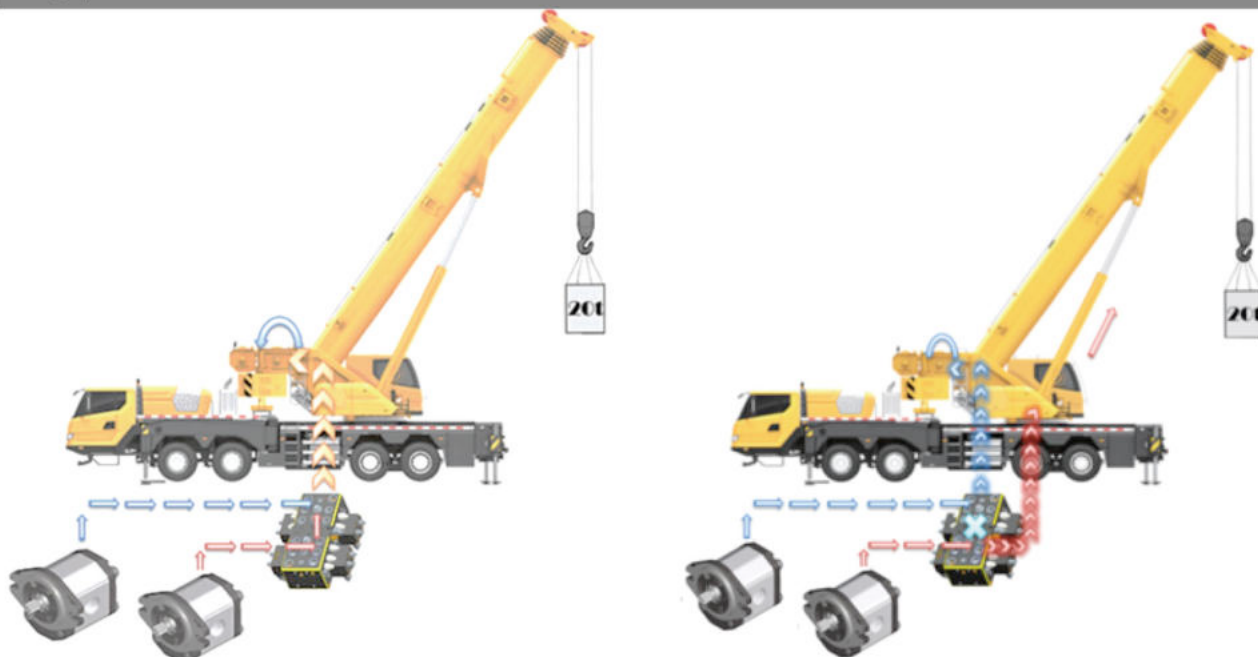


PRECISE AND SMOOTH LIFTING OPERATION

NEW ENERGY-SAVING HYDRAULIC SYSTEM

- Dual-pump independent/confluence control technology offers accurate speed control of the four actions: winch, slewing, luffing and telescoping. It features hydraulic motor independent cooling, ensuring the system's thermal balance stays below 80°C. This allows for continuous operation in high-temperature environments without downtime, ensuring safe and reliable lifting operations.

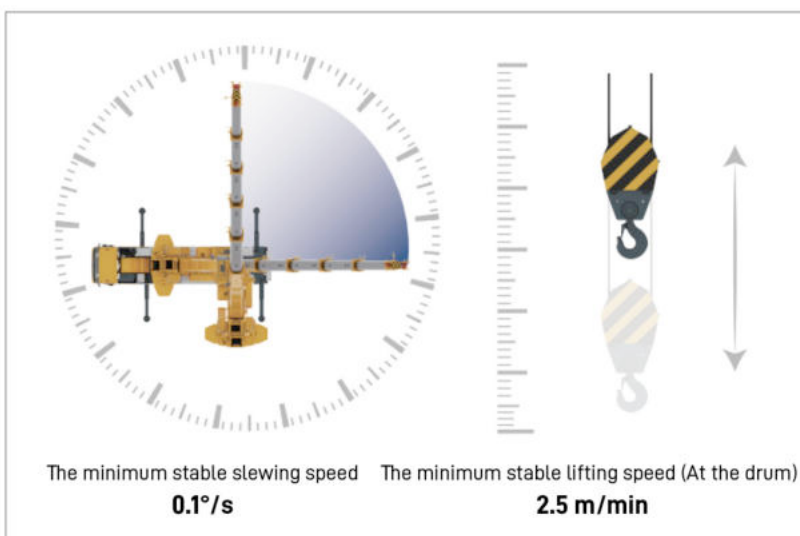
During operations for accurate control, it is switched to a single pump mode, contributing to industry-leading fine control and smoothness of lifting operations.



During high-speed operation, for single operation of lifting, luffing or telescoping, the two pumps work together to supply oil with high efficiency.

During combined movements, dual-pump automatic independent/confluence control allows any combined movements with excellent control.

- The minimum stable slewing speed is 0.1°/s and the minimum stable lifting speed is 2.5 m/min. It can easily realize fast lifting for light load and stable lifting for heavy load with large load moment, which can fully meet the user's precise lifting operation needs.

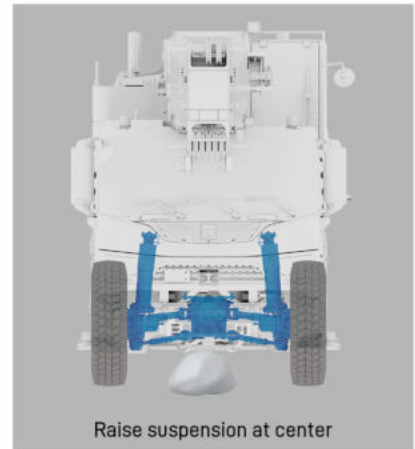
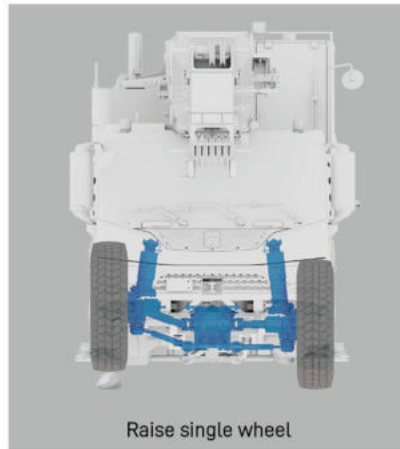


FLEXIBLE AND MANEUVERABLE

- All-axle steering is realized with small turning radius; with four axles for driving, the crane can better adapt to driving on harsh road conditions.
- The crane adopts disc brake with high braking reliability and sensitive braking response, which makes it safer to drive.

**HEAVY-DUTY SINGLE-TRANSVERSE ARM INDEPENDENT SUSPENSION**

- Each wheel operates independently, adapting to different road conditions, improving control stability during high-speed turns, and exhibiting excellent off-road performance on narrow and poor roads.



EXCELLENT DRIVING PERFORMANCE, EFFICIENT AND ECONOMICAL JOBSITE TRANSFER

82.5 T HEAVY-LOAD JOBSITE TRANSFER CONFIGURATION

- 25.4 t counterweight, jib and 60 t hook block can be carried, meeting the demands of over 40% of operation modes and reducing transportation costs.



CONVENIENT WIRELESS REMOTE CONTROL

- The application of convenient wireless remote control technology allows for remote control of outrigger, winch, luffing, counterweight assembly and jib folding/unfolding operations, realizing one-man operation.





PREMIUM QUALITY, HIGH-END AND COMFORTABLE

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

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

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%. Reduce blind spots for improved driving safety.
② Comfortable seat	The driver and co-driver's seats are air suspension seats with good shock absorption and heating function, and the seats are adjustable in forward, backward, upward, and downward directions.
③ 12.3-inch LCD display	Brand-new UI screen, enhancing visual experience and convenient operation.
④ New central control display	Meet the needs of multimedia audio and video playback, Bluetooth communication and other functions.
⑤ High-power HVAC with integrated air duct	Face and foot blowing, defrosting and defogging functions are available.
⑥ Multiple storage spaces	From the user's perspective, define storage locations for more than ten common items such as kettles, mobile phones and receipts, to meet various storage needs of customers.
⑦ Electric adjusting and heating rearview mirrors	Use more conveniently.



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

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

①	Comfortable seat	Pilot function seat with leather+ breathable mesh material, mechanical shock absorption, electric ventilation; front, back, and up and down directions can be adjusted according to customer sitting posture needs.
②	High-power horizontal HVAC	Equipped with front and rear proportional air distribution, outdoor fresh air exchange function, able to defrost, defog, and blow air to face & feet.
③	Vibration lever	The newly developed vibration lever, based on ergonomic principles, is easy and convenient to operate, ensuring more precise and faster operation.
④	Brand-new human-machine interaction system	Integrated human-machine layout, with main and auxiliary control panels arranged separately, making operation convenient.
⑤	10-inch high-definition anti-glare large screen	Integrated functions including automatic planning, fault self-diagnosis contribute to more convenient operation.
⑥	7-inch monitor display	Split-screen monitoring, with no need to switch screens back and forth, making operations safer
⑦	Double-LED light, sun screen	Operator's cab interior vision is clearer.
⑧	Openable large-area windshield	The windshield area is increased by 50%, and the side window area is increased by 30%, comprehensively improving the upper and lower field of views, reducing visual blind spots, and making operations safer.



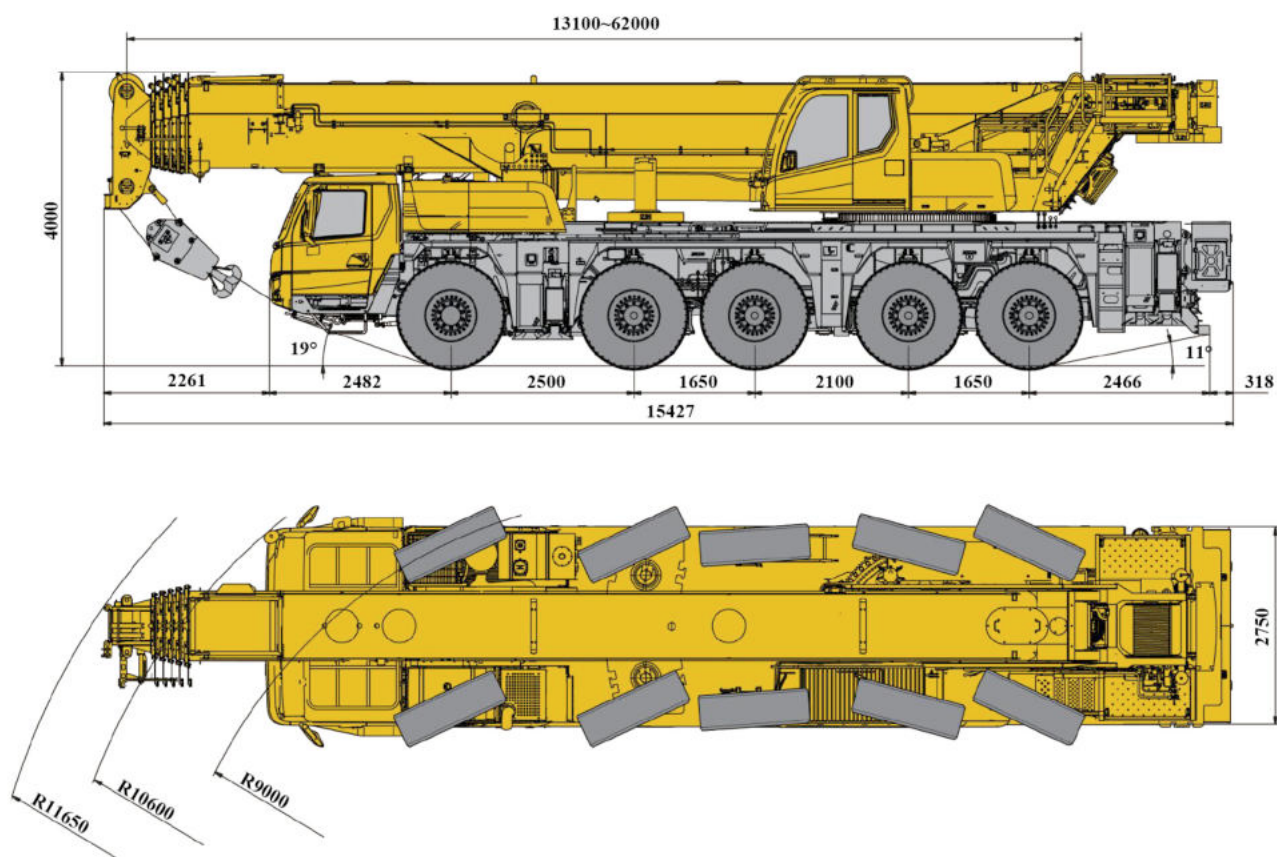
WELL-DESIGNED ACCESS

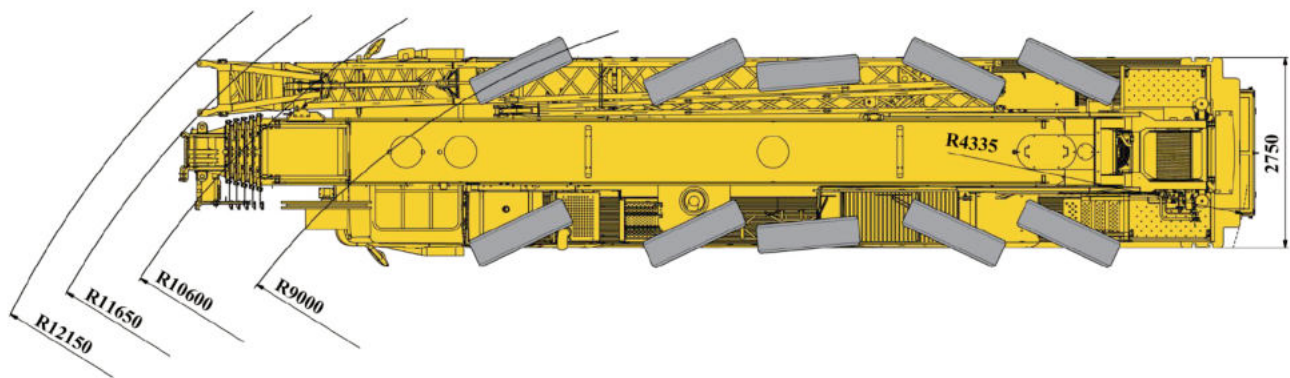
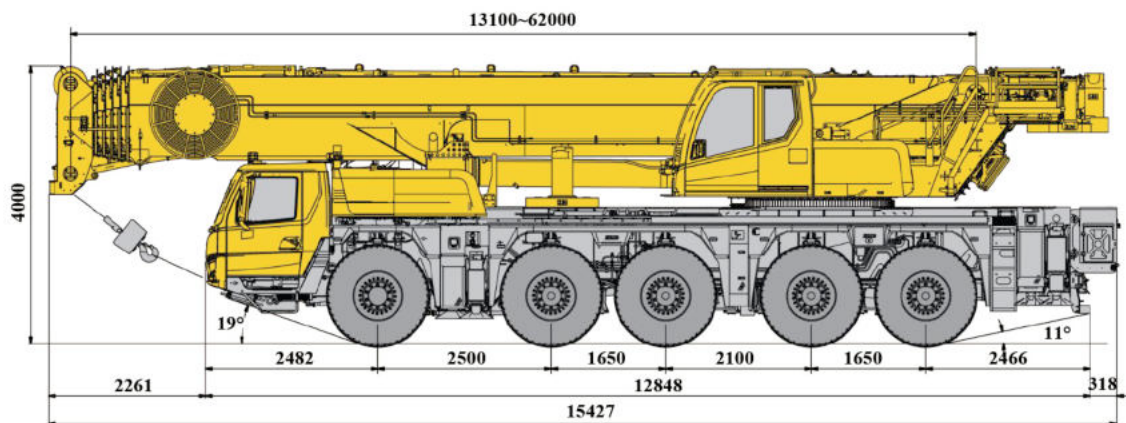
- Climbing ladder is equipped, for more convenient operation and maintenance.



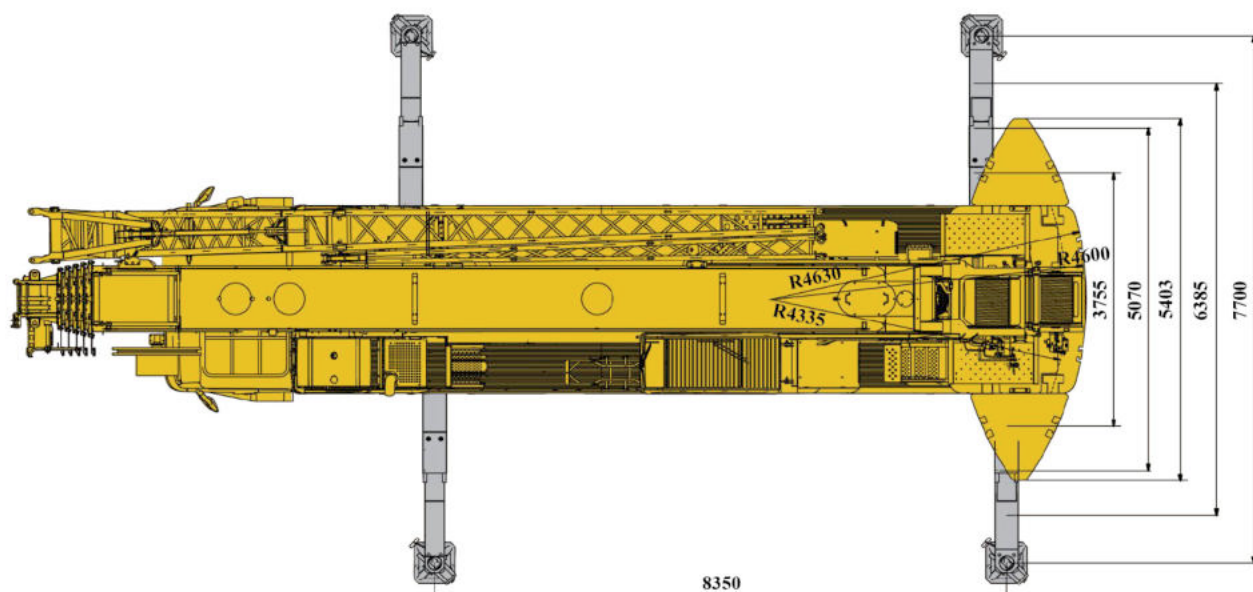
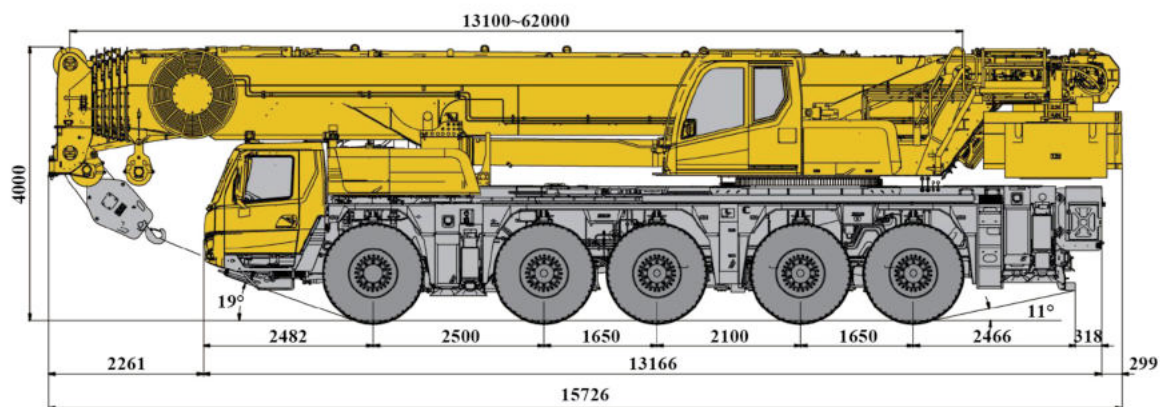
DIMENSIONS

59 T ROAD TRAVEL CONFIGURATION



60 T ROAD TRAVEL CONFIGURATION

DIMENSIONS



**CHASSIS**

Frame	Designed and manufactured by XCMG, the frame is made of high strength steel with fully covered deck and anti-torsion box-shaped structure.
Outriggers	H-shaped outriggers, two-stage telescoping outrigger beams with push-pull outrigger floats. There are four working positions (fully extended, 3/4 extended, half extended and 1/4 extended) to meet different requirements. Outrigger control panel is controlled by CAN bus located at two sides of the chassis. Outrigger float dimensions: 500 mm × 500 mm. Maximum reaction force of outriggers: front outrigger: 712 kN; rear outrigger: 842 kN.
Engine	Daimler AG OM471LA, 6-cylinder, diesel engine, with maximum net power/rpm of 360 kw/1600 rpm (EU Stage V), and maximum output torque/rpm of 2400 N.m/1300 rpm (EU Stage V). Emission standard: EU Stage V/EPA Tier 4F. Fuel tank capacity: 460 L; AdBlue/DEF tank capacity: 40 L; engine displacement: 12.809 L.
Transmission	ZF Germany AMT transmission; 12 forward gears and 2 reverse gears available with retarder.
Safety devices	360° panoramic image, ABS, outrigger pressure detection and axle load detection are standard.
Axles	5-axle chassis with disconnected axles; 2nd, 3rd, 4th and 5th axles for driving; all-axle steering. Steering/driving mode: 10×10×8.
Suspension	With advanced independent suspension technology, the right and left tires can move independently to improve the drive smoothness. Hydro-pneumatic suspension system has good shock-absorbing effect, with automatic leveling function. The height of chassis above the ground can 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 ±110 mm.
Tires	10 tires and 1 spare tire; each axle is equipped with single tire. Tire specifications: 445/95 R25.
Brakes	Service brake: foot pedal operated dual-circuit air pressure brake. Parking brake: air-release brake, which acts on the 2nd, 4th and 5th axles, and gives effect by the spring-loaded air chamber on each axle. Auxiliary brake: engine retarder brake, transmission retarder brake and electric eddy-current retarder brake.
Steering	1st and 2nd axles are mechanically steered, 3rd, 4th and 5th axles adopt electro-hydraulic proportional steering.
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-function steering wheel, air-suspension seats for driver and co-driver, LED headlight, new combined central control panel, 12.3-inch full LCD display, 12-inch central control screen, fire extinguisher, HVAC and vehicle-mounted refrigerator.
Electrical system	24V DC, two 12 V batteries in series. Generator: 28 V-180 A.
Toolbox	Supplied spare box.

TECHNICAL SPECIFICATIONS



SUPERSTRUCTURE

Structure	Designed and manufactured by XCMG, made of high strength steel.
Hydraulic system	The variable piston pump and gear pump driven by chassis engine are used for hoisting, luffing, telescoping, slewing and auxiliary systems. The electric multi-way directional valve and air-cooled hydraulic oil cooler are also available. Effective volume of hydraulic oil tank: 696 L.
Control system	The pilot electric proportional control system is equipped with two levers at left and right sides controlling the main movements of the crane, and stepless speed regulation is available.
Main winch system	Hydraulic control is used for speed regulation. The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake, a counterbalance valve and a grooved drum equipped.
Slewing system	Single-row four-point ball contact external tooth slewing bearing; the system is driven by a hydraulic motor through a planetary gear reducer with constant-closed brake equipped, and can continuously slew 360°. Power control and free slewing function as well as stepless speed regulation are available.
Luffing system	Single cylinder luffing, with counterbalance valve featuring the load compensation function.
Operator's cab	New steel enclosed operator's cab can be tilted up or down by 20°. Spacious interior, expansive field of view, and abundant storage spaces. All-round view safety glass with an openable windshield. Push-pull sliding door, protective grilles, pull-out side step. Dual-motor wipers are fitted for windshield and roof window. 2.5 L washer tank is also available. Stylish interior design. Sun screens for windshield, rear and side windows; double-layer sun screen for the roof window. Mechanical shock absorber and adjustable seat with leather + breathable mesh is adjustable. Dual LED interior lights and electric fan are available. Equipped with HMI control panel, display, armrest boxes, and suspended electronic foot accelerator. HVAC is available.
Safety devices	Hydraulic counterbalance valve, hydraulic relief valve, double-way hydraulic valve, LMI, lowering limiter, anti-two block, anemometer and winch monitor.
Counterweight	Total weight is 44.5 t.
Hook blocks	90 t, 60 t, 25 t and 11 t hook blocks are standard.
Boom	6-section boom with oval cross-section, welded structure with single-plate boom head and compact boom tail. Single-cylinder pinning telescoping system. Boom length: 13.1 m ~ 62 m.
Jib	The jib consists of a connecting bracket, an offsetting 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: 11 m and 18.5 m.

Other items of equipment available on request.

**CONFIGURATION****FUNCTION DESCRIPTION**

Standard

6-section boom of 62 m, fixed jib of 18.5 m

Note: only standard configuration is available for this model.

**OPTIONAL EQUIPMENT****COMPONENT DESCRIPTION**

Hook block

130 t hook block.

Boom extension

Two-section lattice welded structure, attached to boom head. Boom extension length: 7 m×2.

Independent jib head

Lattice welding structure, attached to boom head. Length of independent jib head: 2.9 m.

Auxiliary sheave

Installed at the boom top, used for single line operation. Its lifting performance is the same with that of boom, but the maximum lifting capacity can not exceed 7 t.

Auxiliary winch system

Hydraulic control is used for speed regulation. The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake, a counterbalance valve and a grooved drum equipped.

Wireless remote control

Crane and outrigger operations can be performed with remote control.

Rear towing device

For towing the trailer at the rear of the vehicle.

Heating system

Raise the driver's cab temperature by heating the air, with timing heating function.

Stepless luffing system

For steplessly changing the offset angle of jib.

Wheel block

Used to block the rolling of wheels, preventing vehicles from sliding or slipping when parked on slopes, uneven surfaces or smooth ground, enhancing parking safety, also known as a parking wedge.

WEIGHTS



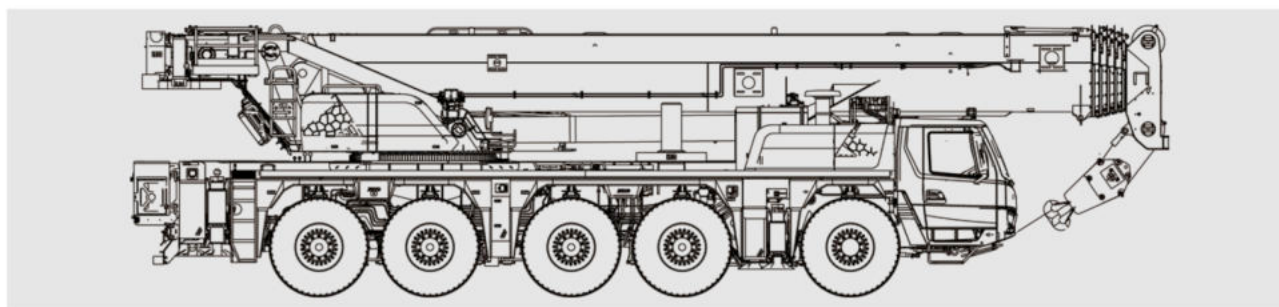
	1	2	3	4	5	TOTAL WEIGHT
t	11.9	11.9	11.6	11.7	11.7	58.8 ¹⁾
t	12	12	12	12	12	60 ²⁾
t	16.5	16.5	16.5	16.5	16.5	82.5 ³⁾

1) 59 t road travel configuration:

Superstructure: carry 60 t hook block, 2.6 t counterweight placed on the middle of the frame, and 1.4 t+2.2 t counterweight fixed on the turntable tail. Jib and its bracket, auxiliary winch and its wire rope, auxiliary sheave, additional sheave, hose reel and other hook blocks are not carried.

Chassis: movable outriggers and outrigger floats and toolbox are carried.

Maximum travel speed: 80 km/h.

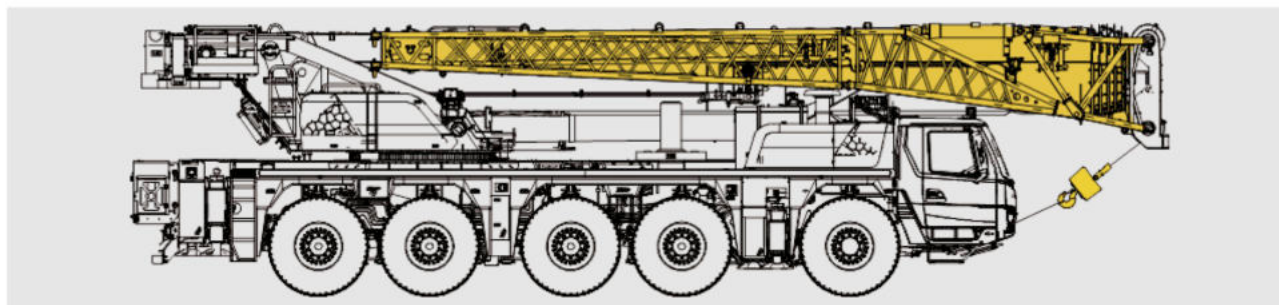


2) 60 t road travel configuration:

Superstructure: carry 11 t hook block, 2.6 t counterweight placed on the middle of the frame, 1.4 t+2.2 t counterweight fixed on the turntable tail, jib and hose reel. Auxiliary winch and its wire rope, auxiliary sheave, additional sheave, and other hook blocks (when the user selects the auxiliary winch, auxiliary winch can be carried to replace 1.4 t counterweight) are not carried.

Chassis: movable outriggers and outrigger floats and toolbox are carried.

Maximum travel speed: 80 km/h.

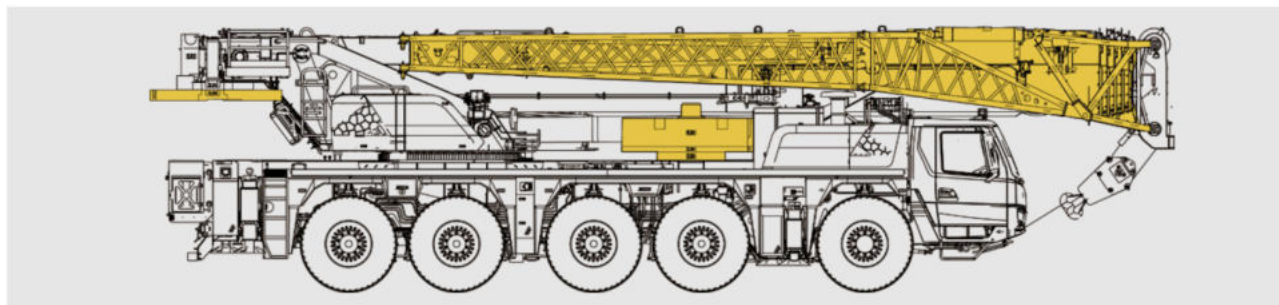


3) 82.5 t heavy-load jobsite transfer configuration:

Superstructure: carry jib, 60 t hook block, 2.6 t+2.8 t+5.8 t+5.8 t counterweight placed on the middle of the frame, and 1.4 t+2.2 t+4.8 t counterweight fixed on the turntable tail. Auxiliary winch and its wire rope, auxiliary sheave, additional sheave, and other hook blocks (when the user selects the auxiliary winch, auxiliary winch can be carried to replace 1.4 t counterweight) are not carried.

Chassis: movable outriggers and outrigger floats and toolbox are carried.

Maximum travel speed: 30 km/h.





	PARTS OF LINE	WEIGHT (kg)	DIMENSIONS (mm)	NOTES
130 t	14	1367	1907×760×848	Dual-hook
90 t	10	962	1660.5×630×611	Dual-hook
60 t	7	648	1456×630×350	Dual-hook
25 t	3	417	1439×558×329	Single-hook
11 t	1	223.3	896×φ400	Single-hook

WORKING SPEEDS

445/95 R25

80 km/h

60%



0-130 m/min, single line, no load

87 kN

20 mm

265 m



0-130 m/min, single line, no load

87 kN

20 mm

205 m



0-1.65 r/min

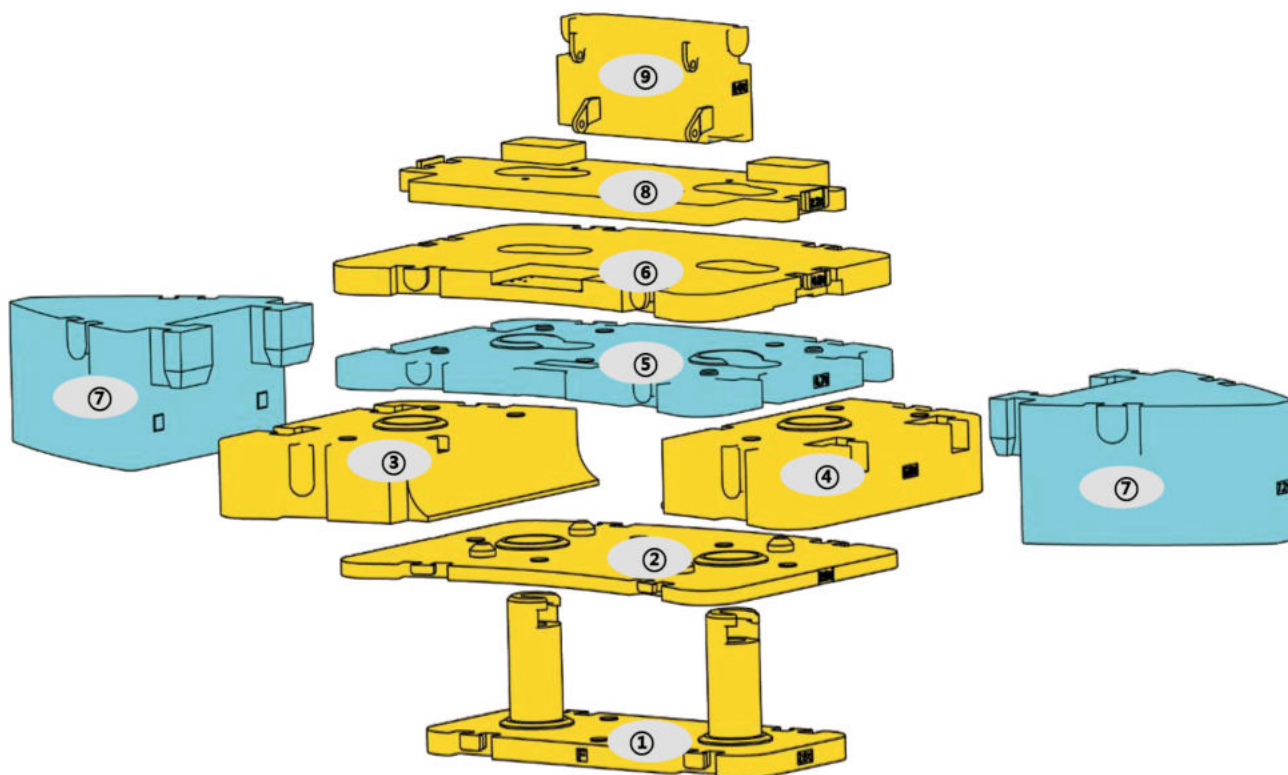


Approx. 65 s for boom luffing from -0.5° to 82°



Approx. 630 s for boom extending from 13.1 m to 62 m

COUNTERWEIGHT



	①	②	③	④	⑤	⑥	⑦	⑧	⑨
Dimensions (L×W×H) (mm)	2380×1040×868	2740×2026×154	1270×2026×457	1270×2026×457	2740×2026×186	2740×2026×157	1602×1489×797	2740×1170×215	1200×384×650
Weight (t)	2.6	2.8	5.8	5.8	4.7	4.8	7.2	2.2	1.4

OPERATION MODES	44.5 T	30.1 T	25.4 T	20.6 T	15.7 T	9 T	6.2 T	3.6 T
Combinations	$\begin{matrix} ⑨ + ⑧ + \\ ① + ② + \\ ③ + ④ + ⑤ \\ + ⑥ + ⑦ \times 2 \end{matrix}$	$\begin{matrix} ⑨ + ⑧ + ① \\ + ② + ③ + ④ \\ + ⑤ + ⑥ \end{matrix}$	$\begin{matrix} ⑨ + ⑧ + ① \\ + ② + ③ + ④ \\ + ⑥ \end{matrix}$	$\begin{matrix} ⑨ + ⑧ + ① + \\ ② + ③ + ④ \end{matrix}$	$\begin{matrix} ⑨ + ⑧ + ① \\ + ⑤ + ⑥ \end{matrix}$	$\begin{matrix} ⑨ + ⑧ + \\ ① + ② \end{matrix}$	$\begin{matrix} ⑨ + ⑧ \\ + ① \end{matrix}$	$⑨ + ⑧$

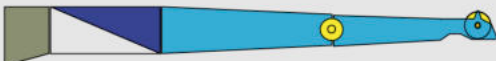
Note: the yellow counterweight slabs can be carried for short-distance jobsite transfer, while blue slabs cannot be carried for short-distance jobsite transfer.

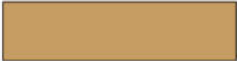
BOOM	JIB	BOOM EXTENSION
T: 13.1-62 m	T: 40.1-62 m F: 11/18.5 m	T: 58.1-62 m V: 7 - 14 m F: 11/18.5 m

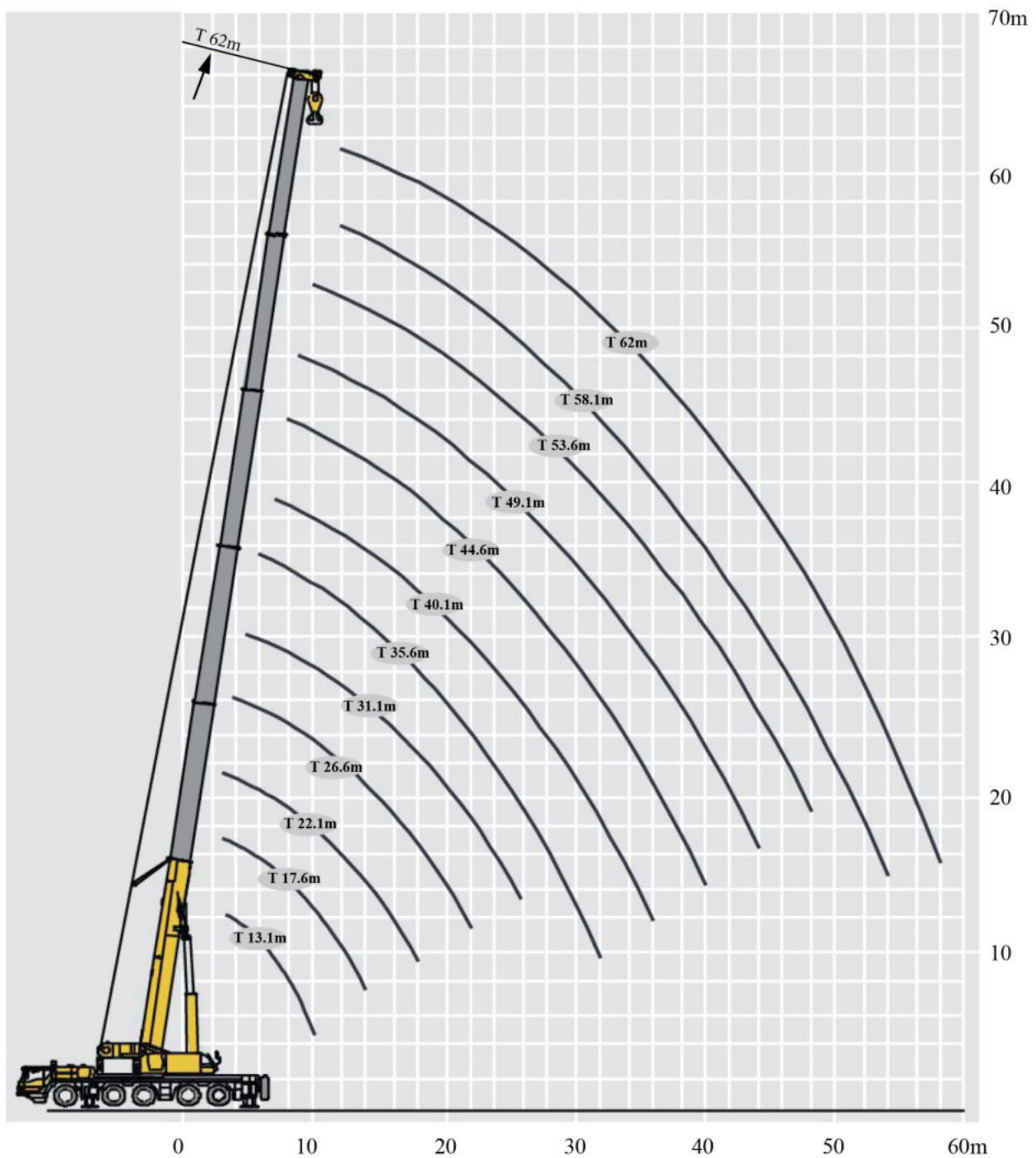


BOOM /JIB COMBINATIONS

FIXED JIB LENGTH

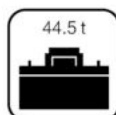
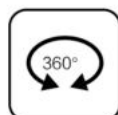
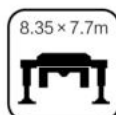
Fixed jib – 11 m	
Fixed jib – 18.5 m	
Boom extension – 25.5 m	
Boom extension – 32.5 m	

COMPONENTS	STRUCTURE	LENGTH (m)
Connecting bracket		2.06
Offsetting bracket		3.44
Boom extension		7.1
1st jib section		7.08
2nd jib section		7.36

BOOM

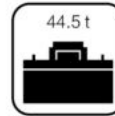
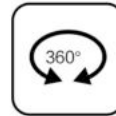
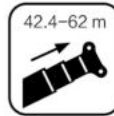
LOAD CHARTS

BOOM



	13.1	17.6	22.1	22.8	26.6	31.1	32.6	35.6	40.1	
3	130**	83	83.0	36.6						3
3.5	101*	83	83.0	34.3						3.5
4	93*	83	83.0	32.3	67.0					4
4.5	86*	83	82.0	30.5	67.0					4.5
5	81	79	77.0	29.3	67.0	58.0	24.9			5
6	71	69	68.0	26.4	66.5	58.0	22.6	50.0		6
7	62	62	61.0	24.0	59.0	58.0	20.7	50.0	42.0	7
8	55	56	55.0	22.0	54.0	53.0	19.1	50.0	42.0	8
9	47	50	50.0	20.3	49.0	48.0	17.7	46.7	42.0	9
10	38	45.6	45.0	19.0	45.0	44.0	16.5	44.0	40.3	10
12		36.8	37.0	16.7	37.1	38.6	14.2	38.0	34.0	12
14		27	30.2	14.8	31.3	32.1	12.6	31.5	29.6	14
16			24.4	13.1	26.4	26.2	11.2	25.7	25.3	16
18			21.8	11.8	22.1	21.9	10.1	21.4	21.3	18
20					18.8	18.6	9.3	18.5	18.1	20
22					16.2	16.1	8.5	15.9	15.6	22
24						14.3	7.8	13.9	14.1	24
26						12.6	7.2	12.2	12.4	26
28							6.6	10.7	11.0	28
30								9.5	9.8	30
32								8.0	8.7	32
34									7.8	34
36									7.0	36

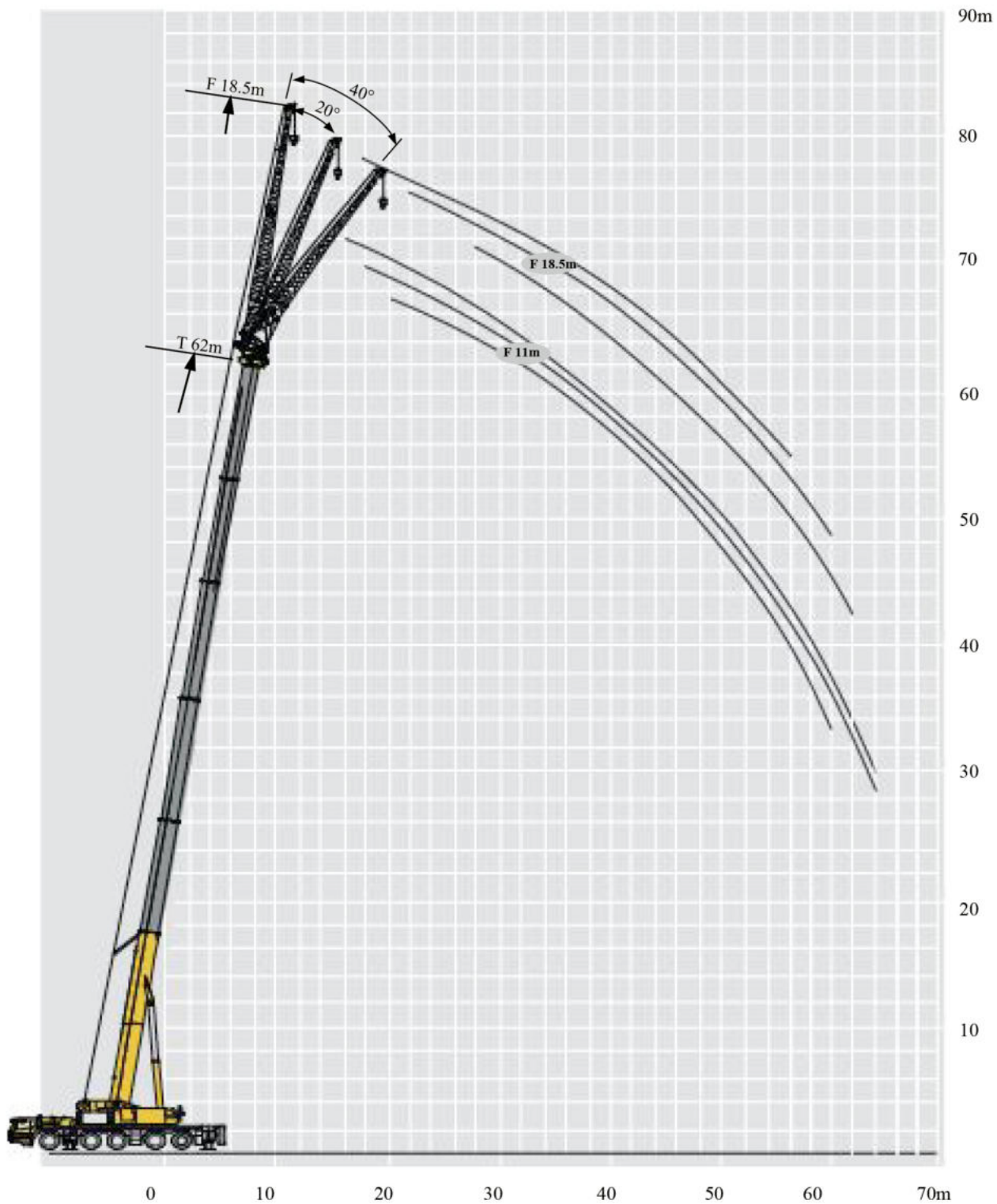
Note: ** Capacity class, * with boom additional sheave.

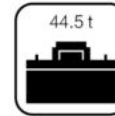
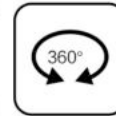
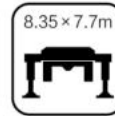
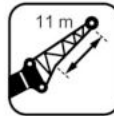
BOOM

	42.4	44.6	49.1	52.2	53.6	56.7	58.1	61.2	62	
7	19.5									7
8	19.0	32.7								8
9	18.0	32.7	25.1							9
10	17.1	32.9	25.1	15.1	18.7	13.0				10
12	15.1	29.7	25.1	14.7	18.1	13.0	14.7	11.1	11.8	12
14	13.3	26.7	22.6	13.5	18.1	13.0	14.6	11.0	11.8	14
16	11.8	23.5	20.1	12.0	16.7	12.4	14.5	11.0	11.8	16
18	10.6	21.0	17.8	10.7	14.9	11.1	14.2	10.7	11.8	18
20	9.7	18.1	16.1	9.7	13.9	10.1	12.9	9.7	11.7	20
22	8.9	15.7	14.6	8.9	12.8	9.2	11.6	8.8	10.6	22
24	8.1	13.7	13.2	8.1	11.7	8.4	10.5	8.1	9.6	24
26	7.5	12.0	11.7	7.5	10.7	7.7	9.6	7.3	8.8	26
28	6.9	10.5	10.8	6.9	9.8	7.1	8.9	6.8	8.1	28
30	6.4	9.6	10.0	6.3	9.0	6.6	8.2	6.2	7.5	30
32	5.9	9.0	9.1	5.9	8.3	6.1	7.6	5.7	6.8	32
34	5.5	8.1	8.2	5.5	7.7	5.7	7.0	5.3	6.4	34
36	5.2	7.3	7.4	5.1	7.1	5.3	6.5	4.9	5.9	36
38	4.8	6.6	6.7	4.8	6.6	5.0	6.1	4.6	5.5	38
40		6.0	6.0	4.4	5.9	4.7	5.6	4.2	5.1	40
42			5.5	4.2	5.4	4.3	5.1	3.9	4.7	42
44			5.0	3.9	4.8	3.9	4.5	3.7	4.3	44
46				3.7	4.4	3.6	4.1	3.4	4.0	46
48				3.4	3.9	3.2	3.6	3.0	3.7	48
50						2.9	3.3	2.7	3.3	50
52						2.6	2.9	2.4	2.9	52
54							2.6	2.2	2.6	54
56								1.9	2.3	56
58								1.7	1.6	58

WORKING RANGE DIAGRAM

JIB

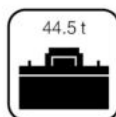
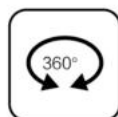
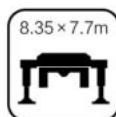


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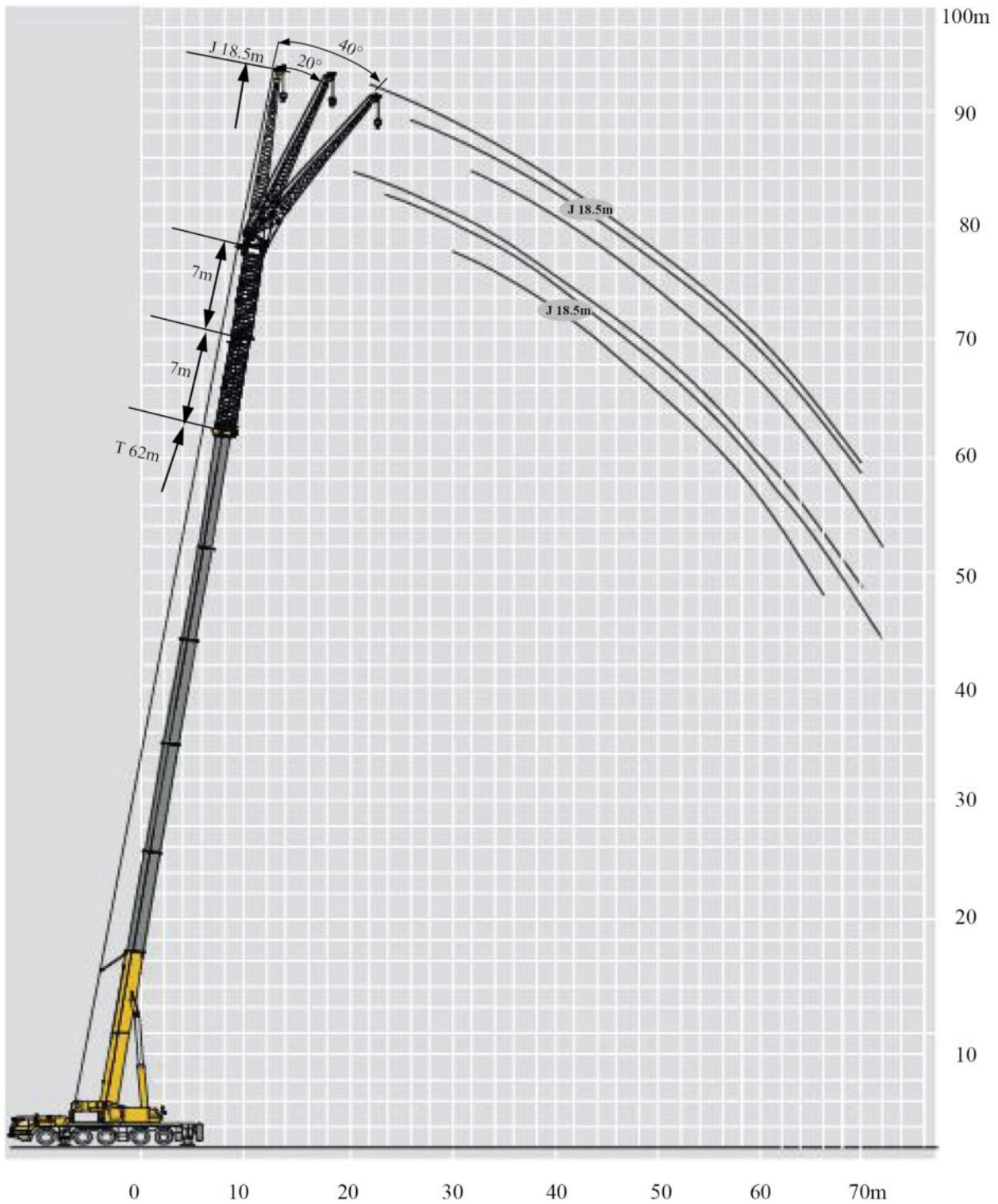
	13.1 m			40.1 m			53.6 m			58.1 m			62 m			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
5	17.3															5
6	17.3	11.6														6
7	16.5	10.1														7
8	15.2	9.0														8
9	14.0	8.6	5.9	13.0												9
10	12.7	8.1	5.6	12.5												10
12	11.5	7.1	5.1	12.0	10.0		10.4									12
14	9.8	6.6	4.9	11.0	9.1		10.4			8.9						14
16	9.0	6.1	4.7	10.5	8.7	5.6	10.3	9.5		8.7			7.9			16
18	6.8	5.6	4.6	10.0	8.2	5.4	10.1	8.7	5.5	8.5	8.6		7.9	7.9		18
20		4.7	4.5	9.5	7.7	5.2	9.9	8.5	5.3	8.4	8.3	5.1	7.9	7.8	5.1	20
22				9.2	7.4	5.0	9.6	8.0	5.1	8.4	7.9	5.0	7.9	7.7	5.0	22
24				8.9	7.0	4.9	9.3	7.5	5.0	8.3	7.6	4.9	7.8	7.6	4.9	24
26				8.6	6.8	4.8	9.3	7.4	4.9	8.3	7.3	4.8	7.8	7.2	4.8	26
28				8.3	6.4	4.7	8.6	6.9	4.8	7.8	7.0	4.7	7.0	6.7	4.7	28
30				8.1	6.2	4.5	7.9	6.8	4.7	7.1	6.6	4.6	6.5	6.2	4.5	30
32				8.0	6.0	4.4	7.3	6.5	4.5	6.5	6.3	4.4	5.9	5.6	4.4	32
34				7.2	5.7	4.3	6.8	6.3	4.4	6.0	5.7	4.3	5.4	5.4	4.3	34
36				6.4	5.6	4.2	6.2	6.0	4.3	5.5	5.3	4.2	4.9	4.9	4.2	36
38				5.7	5.3	4.1	5.7	5.5	4.2	5.0	5.1	4.1	4.6	4.6	4.1	38
40				5.1	5.2	4.1	5.1	5.2	4.0	4.8	4.7	3.9	4.1	4.1	3.9	40
42				4.6	4.7	3.9	4.5	4.7	4.0	4.4	4.3	3.9	3.8	3.8	3.8	42
44					4.2		4.0	4.3	3.9	4.0	4.0	3.8	3.6	3.5	3.5	44
46							3.6	3.8	3.8	3.7	3.7	3.8	3.3	3.3	3.2	46
48							3.2	3.4	3.5	3.4	3.5	3.5	3.0	3.0	2.9	48
50							2.8	3.0	3.0	3.0	3.2	3.3	2.7	2.7	2.8	50
52							2.4	2.6	2.6	2.6	2.8	2.9	2.5	2.5	2.5	52
54							2.1	2.3		2.3	2.5	2.5	2.3	2.3	2.4	54
56							1.8	1.9		2.0	2.2	2.2	2.0	2.1	2.1	56
58										1.8	1.9		1.7	1.8	1.9	58
60										1.5	1.6		1.5	1.6	1.6	60
62													1.2	1.3		62
64													1.0	1.1		64

LOAD CHARTS

JIB

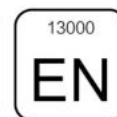
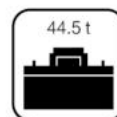
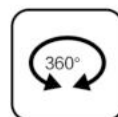
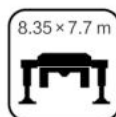
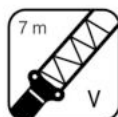


	13.1 m			40.1 m			53.6 m			58.1 m			62 m			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
5	7.8															5
6	7.5															6
7	7.4															7
8	7.2															8
9	7.1															9
10	6.9	6.0														10
12	5.9	5.4		5.6												12
14	5.1	4.7		5.5			4.9									14
16	4.6	4.2	2.5	5.4	4.2		4.8			4.5						16
18	4.1	4.1	2.4	5.3	4.1		4.8			4.4			4.0			18
20	3.7	3.8	2.3	5.2	3.8		4.7	4.1		4.4			4.0			20
22	3.4	3.6	2.1	5.1	3.6	2.4	4.7	3.9		4.4	3.9		4.0	3.7		22
24		3.4	2.0	5.1	3.4	2.3	4.6	3.7	2.4	4.3	3.8		3.9	3.5		24
26			1.9	5.1	3.2	2.2	4.5	3.6	2.3	4.3	3.6	2.3	3.8	3.4		26
28				5.0	3.1	2.1	4.5	3.3	2.2	4.3	3.4	2.2	3.7	3.3	2.2	28
30				4.7	3.0	2.0	4.4	3.2	2.1	4.2	3.3	2.1	3.6	3.2	2.1	30
32				4.5	2.9	2.0	4.4	3.1	2.1	4.2	3.2	2.1	3.5	3.1	2.1	32
34				4.2	2.7	1.9	4.3	3.0	2.0	4.1	3.0	2.1	3.4	3.0	2.0	34
36				4.0	2.6	1.9	4.3	2.9	2.0	4.1	2.9	2.0	3.3	2.8	2.0	36
38					2.5	1.9	4.2	2.7	2.0	4.0	2.8	2.0	3.2	2.7	2.0	38
40					2.3	1.9	4.1	2.6	1.9	4.0	2.7	2.0	3.2	2.6	2.0	40
42					2.2	1.8	4.1	2.5	1.9	3.8	2.5	1.9	3.1	2.5	1.9	42
44					2.1	1.8	3.9	2.4	1.9	3.8	2.4	1.9	3.0	2.5	1.9	44
46						1.8	3.7	2.4	1.9	3.6	2.4	1.9	2.9	2.4	1.9	46
48							3.5	2.3	1.8	3.3	2.4	1.9	2.8	2.4	1.9	48
50							3.2	2.2	1.9	3.0	2.3	1.9	2.6	2.4	1.9	50
52								2.1	1.9	2.7	2.3	1.8	2.3	2.3	1.8	52
54								2.1	1.8	2.5	2.2	2.0	2.3	2.2	1.9	54
56									1.9	2.3	2.1	1.8	2.0	2.0	1.9	56
58										2.1	2.0	1.8		1.9	1.8	58
60										1.8	2.0			1.7	1.8	60
62										1.6	1.8				1.5	62
64										1.4	1.5					64
66											1.3					66
68											1.1					68

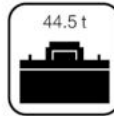
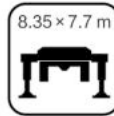
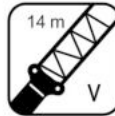
BOOM EXTENSION

LOAD CHARTS

BOOM EXTENSION



	58.1+7 m			62+7 m			
	0°	20°	40°	0°	20°	40°	
18	4.0						18
20	4.0			3.5			20
22	4.0			3.4			22
24	3.9	4.1		3.4	3.3		24
26	3.9	3.9		3.4	3.3		26
28	3.9	3.6	2.5	3.3	3.3		28
30	3.8	3.4	2.4	3.3	3.3	2.6	30
32	3.8	3.3	2.3	3.3	3.3	2.5	32
34	3.7	3.1	2.2	3.2	3.2	2.4	34
36	3.7	3.0	2.1	3.2	3.1	2.2	36
38	3.6	2.9	2.1	3.1	3.0	2.1	38
40	3.6	2.8	2.1	3.1	3.0	2.0	40
42	3.5	2.7	2.0	3.0	2.9	2.0	42
44	3.5	2.6	2.0	2.8	2.6	2.0	44
46	3.0	2.5	2.0	2.5	2.6	2.0	46
48	3.0	2.5	2.0	2.5	2.6	2.0	48
50	2.5	2.4	1.9	2.0	2.1	2.0	50
52	2.3	2.4	1.9	2.0	2.1	1.9	52
54	1.6	2.2	1.9	1.8	1.9	1.9	54
56	1.5	2.1	1.9	1.6	1.8	1.9	56
58	1.5	1.8	1.9	1.6	1.6	1.4	58
60	1.2	1.6	1.2	1.5	0.8	1.4	60
62	1.5	1.4	1.2	1.1	0.8	1.3	62
64	1.0	1.4	1.2	0.5	0.5	0.8	64
66		1.2	1.2	0.5	0.5	0.5	66
68			0.8	0.5	0.5		68
70				0.5	0.5		70
72					0.5		72

BOOM EXTENSION

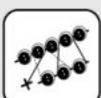
	58.1+14 m			62+14 m			
	0°	20°	40°	0°	20°	40°	
20	3.5						20
22	3.5			3.0			22
24	3.5			3.0			24
26	3.4	3.4		3.0	2.9		26
28	3.4	3.3		3.0	2.8		28
30	3.4	3.3	2.4	3.0	2.8		30
32	3.3	3.3	2.3	2.9	2.8	2.6	32
34	3.3	3.3	2.3	2.9	2.7	2.5	34
36	3.2	3.2	2.2	2.9	2.7	2.4	36
38	3.2	3.0	2.1	2.9	2.7	2.2	38
40	3.1	2.9	2.1	2.9	2.7	2.1	40
42	3.0	2.9	2.1	2.6	2.7	2.1	42
44	2.6	2.8	2.0	2.3	2.6	2.0	44
46	2.5	2.6	2.0	2.3	2.1	2.0	46
48	2.4	2.3	2.0	1.8	2.1	2.0	48
50	2.1	2.1	2.0	1.8	1.9	2.0	50
52	1.9	2.1	2.0	1.8	1.7	1.8	52
54	1.7	1.6	2.0	1.0	1.4	1.5	54
56	1.6	1.6	1.8	1.8	1.8	1.5	56
58	1.5	1.6	1.5	1.6	1.2	1.5	58
60	1.5	1.4	1.5	1.5	1.2	1.5	60
62	1.2	1.5	1.5	1.3	1.2	0.8	62
64	1.2	1.2	1.2	1.1	0.8	0.8	64
66	1.0	1.2	1.2	0.9	0.8	0.8	66
68	0.8	0.8	0.8	0.7	0.8	0.5	68
70			0.8	0.5	0.5	0.5	70
72						0.5	72

TABLE OF MAIN TECHNICAL PARAMETERS

CATEGORY	ITEM		UNIT	PARAMETERS	
Dimensions	Dimensions (L×W×H)		mm	15427×2750×4000	
	Axle spacing		mm	2500+1650+2100+1650	
	Track (front/rear)		mm	2296	
	Front/rear overhang		mm	2482/2784	
	Front/rear extension		mm	2261/0	
Weights	Maximum permissible total weight		kg	58800	60000
	Axle load	Axle 1	kg	11900	12000
		Axle 2	kg	11900	12000
		Axle 3	kg	11600	12000
		Axle 4	kg	11700	12000
		Axle 5	kg	11700	12000
Power	Engine model		—	OM471LA	
	Maximum net power/rpm		kW/(r/min)	360/1600	
	Maximum output torque/rpm		N.m/(r/min)	2400/1300	
Travel	Maximum travel speed		km/h	80	
	Minimum stable travel speed		km/h	2~3	
	Minimum turning diameter		m	≤18 (Tight-turning radius steering mode) ≤22 (Road steering mode)	
	Minimum turning diameter at boom head		m	58800	60000
				≤23.3 (Tight-turning radius steering mode)≤27.2 (Road steering mode)	≤24.3 (Tight-turning radius steering mode)≤28.4 (Road steering mode)
	Minimum ground clearance		mm	355	
	Approach angle		°	19	
	Departure angle		°	11	
	Braking distance (initial speed at 30 km/h)		m	≤10	
	Maximum grade ability		%	60	
	Fuel consumption per 100 km		L	65	
Noise	Exterior noise level when accelerating		dB(A)	≤83	
	Noise level at seated position		dB(A)	≤90	

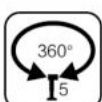
CATEGORY	ITEM			UNIT	PARAMETERS
Main performance	Maximum rated total lifting capacity			t	130
	Minimum rated working radius			m	3
	Slewing radius at turntable tail	At counterweight		mm	4630
		At auxiliary winch		mm	4600
	Maximum load moment	Base boom section		kN.m	4468
		Fully-extended boom		kN.m	2297
		Fully-extended boom + jib		kN.m	1976
	Outrigger span	Longitudinal		m	8.35
		Lateral		m	7.7/6.39/5.07/3.76
	Lifting height	Base boom section		m	12.1
		Fully-extended boom		m	61.5
		Fully-extended boom + jib		m	92.5
	Boom length	Base boom section		m	13.1
		Fully-extended boom		m	62
		Fully-extended boom + jib		m	94.5
Jib offset angle			°	0, 20, 40	
Working speeds	Time for raising boom			s	≤65
	Time for fully extending the boom			s	≤630
	Maximum slewing speed			r/min	≥1.65
	Time for extending/retracting outriggers	Outrigger beams	Retracting	s	≤25
			Extending	s	≤20
		Outrigger jacks	Retracting	s	≤55
			Extending	s	≤45
	Lifting speed (Single line, no load)	Main winch system		m/min	≥130
Auxiliary winch system		m/min	≥130		
Noise	Exterior noise level			dB(A)	≤109
	At driver position			dB(A)	≤80

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

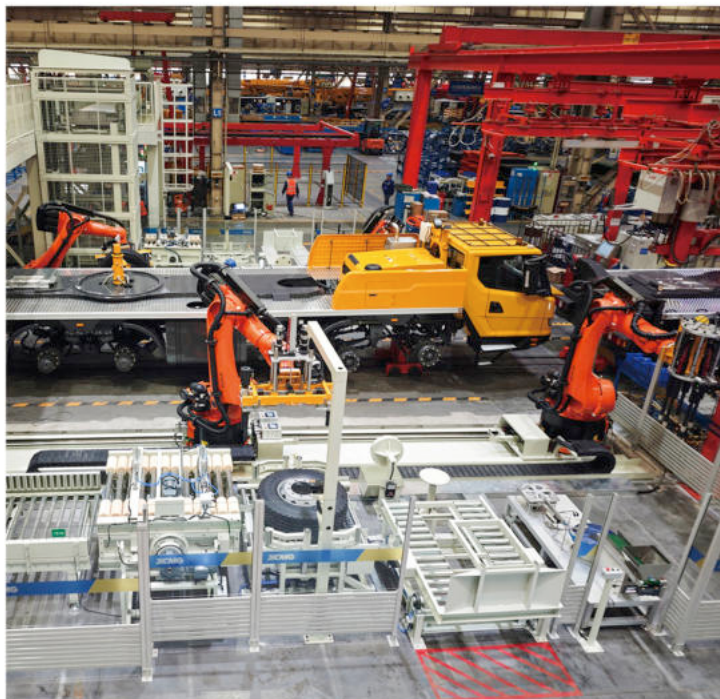
	Maximum lifting height
	Maximum working radius
	Super lift
	Wind power jib
	Telescoping
	Slewing
	360° slewing
	360° slewing with the 5th jack down
	Side and rear operation
	Operation over front
	Operation over rear

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



DIGITIZED CORE COMPONENTS WORKSHOP



UNMANNED AUTOMATIC WELDING



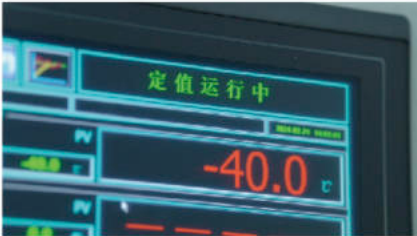
SPRAYING PROCESS OF ROBOTS



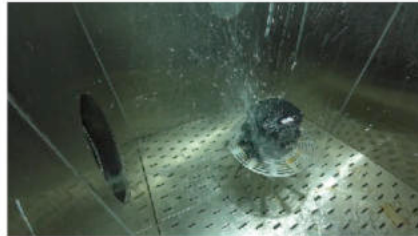
DIGITIZED STRUCTURE WORKSHOP

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°C



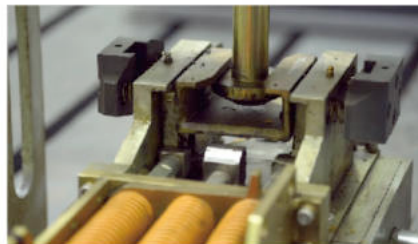
Length measurement sensor
48-hour rain-proof test



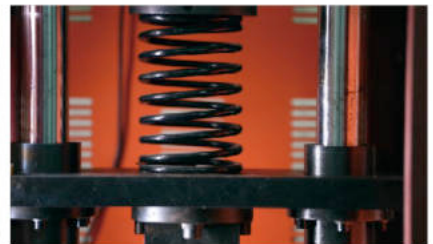
Panel buttons
1.2 million times reliability test



Hydraulic oil pump
Low-temperature performance test under -40°C



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/m²).



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