

ALL TERRAIN CRANE **XCA120_E**

FOUR-AXLE ULTIMATE CRANE

 **120 t**  **66 m**  **62 m**  **94 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



A four-axle all terrain crane that can be easily operated by one person and is safe, worry-free and flexible during jobsite transfer



Economical operation

Compact and flexible: The complete machine features a compact design, making it maneuverable and well-suited for operations on narrow urban roads; with all-wheel steering and multiple steering modes, it has a small turning radius and is capable of handling rough conditions such as potholes and muddy terrain with its three axles for driving.

Efficient jobsite transfer: 18.7 t counterweight can be carried on board during heavy-load jobsite transfer, allowing for single-operator operation and contributing to low operating costs.

One-man operation of the machine: Convenient wireless remote control device enables single-person operation, reducing operational costs.



Efficient lifting

Seven-section boom of 66 m contributes to excellent performance, making the crane suitable for urban construction, road construction, equipment installation and other OMs.

Multiple OM options: independent jib head OM, small-angle operation OM, dual-hook coordination OM, etc. are available to adapt to different application scenario requirements.

Telescoping with load: wide construction range, with working efficiency improved by 30%~50%.

Variable support technology: telescoping length for each outrigger can be individually adjusted, ensuring easy operation in narrow spaces.



Precise control

Dual-slewing mechanism can enhance operation safety, precision and stability.

New energy-saving hydraulic system: Dual-pump independent/confluence control technology contributes to excellent combined movement performance with high working efficiency.

Speed grading control technology: Light and heavy load states can be intelligently recognized and it can automatically match the optimal luffing and slewing operation speeds, with high safety.



Intelligent and exclusive experience

G star cabs: newly designed cabs with comfortable experience.

To meet customer needs, it comes with rich functional configurations that can enhance operational comfort.



Safe and reliable

Emergency brake switch, night lighting device, backup camera, anemometer, etc are equipped, making operations safer.



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7-section boom: 66m

Fixed jib: 18.5 m

Maximum lifting height of boom + jib: 94 m

Maximum length of boom + jib: 94.2 m

Engine: OM471LA.E5-2



ECONOMICAL OPERATION

G-ECO full-cycle efficiency and energy saving

COMPACT AND FLEXIBLE

- The complete machine has a compact design, with the dimensions of 14.3×2.75×3.94 m and the minimum turning radius of 8.5 m. It is maneuverable and has good pass ability, making it suitable for operations on narrow urban roads.
- All-axle steering and multiple steering modes including road steering, tight-turning radius, crab steering, rear-axle locked, independent rear-axle steering and reduced swing-out are available.
- With three-axle driving, the crane has strong power and is capable of handling rough conditions such as potholes and muddy terrain.



EFFICIENT JOBSITE TRANSFER

- 18.7 t counterweight and 25 t hook block can be carried on board during jobsite transfer, allowing for single-operator operation and contributing to low operating costs.



ONE-MAN OPERATION

- Convenient wireless remote control can remotely control outrigger, winch, luffing, slewing, counterweight assembly and jib folding/unfolding operations. Single-operator operation reduces operational cost investment.



EXCELLENT PERFORMANCE

- Seven-section boom of 66 m and 33 t counterweight contribute to strong operational stability, making the crane suitable for urban construction, road construction, equipment installation and other OMs.

**TECHNOLOGY OF TELESCOPING WITH LOAD**

- The boom can safely telescope with a load at any point within the OM range and the comprehensive performance is not less than 40% of the rated load. Construction range is wider, efficiency is increased by 30%-50%, and lifting operation is safe and reliable.



ECONOMICAL OPERATION

G-ECO full-cycle efficiency and energy saving

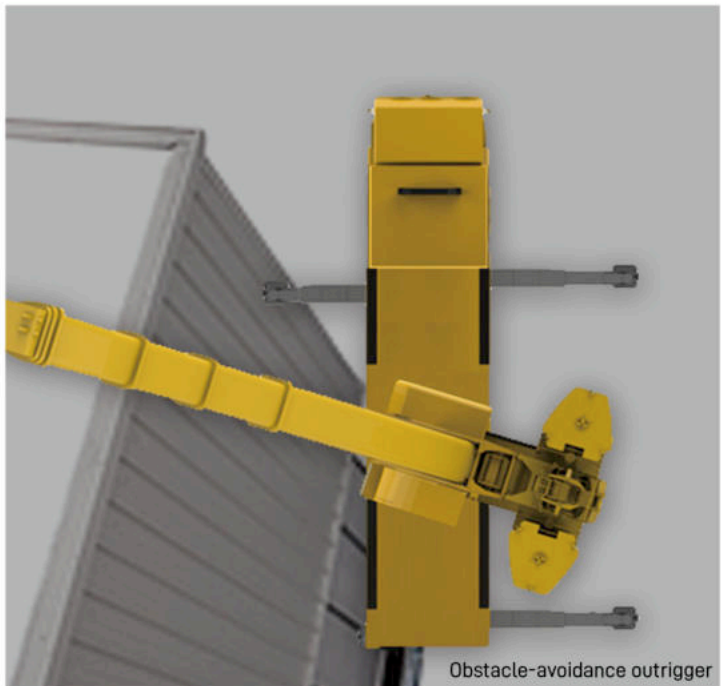
MULTIPLE OMS AVAILABLE FOR SELECTION

- Independent jib head OM: 2.9 m portable independent jib head (optional) with lattice welded structure can be stowed on the side of the boom and carried on board during jobsite transfer.
- Small-angle operation OM: The boom can perform lifting operations within the boom angle range of 0°~80°, suitable for operation in height-restricted factory buildings.
- Dual-hook coordination OM: For the needs of lifting and overturning slender parts, using the dual-hook coordination OM can achieve lifting and overturning by only one crane, making the operation more convenient.



VARIABLE SUPPORT TECHNOLOGY

- Each outrigger can be set to different telescoping lengths (25%, 50%, 75%, or 100% extension) depending on site conditions, which allows for more scenarios to be catered for, particularly when working in width-restricted spaces.



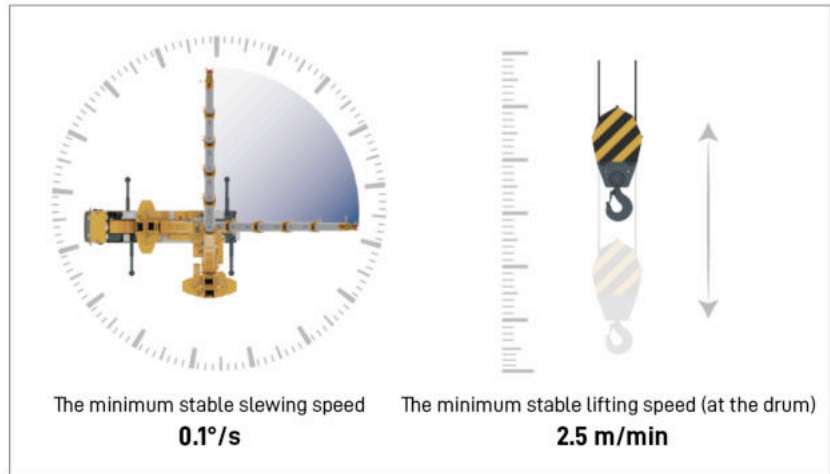
Obstacle-avoidance outrigger

DUAL-SLEWING MECHANISM

- The dual-reducer proportional braking slewing mechanism enhances operation safety, precision and stability.

NEW ENERGY-SAVING HYDRAULIC SYSTEM

- Dual-pump independent/confluence control technology contributes to excellent combined movement performance with high working efficiency.
- The minimum stable slewing speed is $0.1^\circ/\text{s}$. The minimum stable lifting speed is 2.5 m/min . Precise and safe lifting movements can be realized.

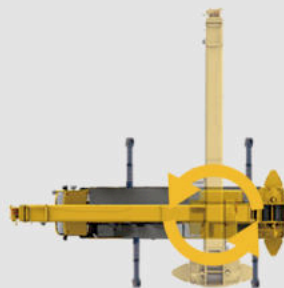


SPEED GRADING CONTROL TECHNOLOGY

- Light and heavy load states can be intelligently recognized and it can automatically match the optimal luffing and slewing operation speeds, with high safety.



Luffing operation can be performed in a more constant speed without impact.



Safer high-speed slewing



Less shaking during high-speed lifting



INTELLIGENCE-POWERED PREMIUM EXPERIENCE

G-COMFORT FULL ENJOYMENT

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

G-STAR CAB - DRIVER'S CAB

①	Large windshield	Reduce blind spots for improved safety during driving.
②	Multi-function air-suspension seats for the driver and co-driver	Various functions of electric ventilation, electric heating and lumbar air inflation support are available; the seats can be adjusted and provide comfortable seating.
③	Newly-developed combined instrument panel	12.1-inch central touch screen, 12.3-inch LCD screen display, and new UI for human-machine interaction system are easy to operate.
④	Multi-functional steering wheel	The steering wheel is adjustable up/down and forward/reverse and integrates cruise control, multimedia control and other functions for convenient operation.
⑤	High-power HVAC with integrated air duct	It has face and foot blowing, defrosting and defogging functions, making the indoor temperature more even and improving cooling and heating efficiency.
⑥	Multi-storage space	More than ten common items such as kettles, mobile phones and receipts can be stored in the cab.
⑦	Other user-friendly designs	Equipped with electric adjustable and heating rearview mirrors, phone holder, wireless unlocking key, etc., for a more comfortable driving experience.



G-STAR CAB - OPERATOR'S CAB

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

①	Openable windshield Safety glass with ultra large field of view	Comprehensively enhance the upper and lower field of view.
②	Adjustable mechanical shock-absorbing seat	The adjustable mechanical shock-absorbing seat is made of leather and breathable mesh for a comfortable ride.
③	High-power horizontal HVAC	It has face and foot blowing, defrosting and defogging functions, making the indoor temperature more even and improving cooling and heating efficiency.
④	Brand-new human-machine interaction system	The main and auxiliary control panels are strategically zoned, featuring a 12.1-inch adjustable true-color touch screen and a 7-inch winch monitoring screen. Integrated with load planning, fault self-diagnosis and other functions, the system ensures greater convenience in operation.
⑤	Vibration lever	The ergonomically designed vibration lever ensures easy and precise control during operation.
⑥	Other user-friendly designs	Equipped with a push-pull sliding door, an electric pull-out step and a wireless unlocking key for easy entry and exit.

INTELLIGENCE-POWERED PREMIUM EXPERIENCE

G-Comfort full enjoyment

USER-FRIENDLY CONFIGURATIONS

- To meet customer needs, it comes with rich functional configurations that can enhance operational comfort.



User-friendly configurations

①	Toolbox and storage box
②	Folding herringbone ladder
③	Fan in cab
④	Operator's cab tilting function
⑤	Outrigger operation performed in superstructure display
⑥	Centralized lubrication
⑦	Wireless camera on boom head
⑧	Superstructure rotating lighting device
⑨	Eddy current brake

Standard

Optional

SAFE AND RELIABLE

- Emergency brake switch, night lighting device, backup camera, anemometer, etc are equipped, making operations safer.



Emergency brake switch: In case of emergency, press this switch to immediately stop all movements of the crane



The night lighting device includes work lights of outrigger, turntable and operator's cab, making nighttime operations safer.

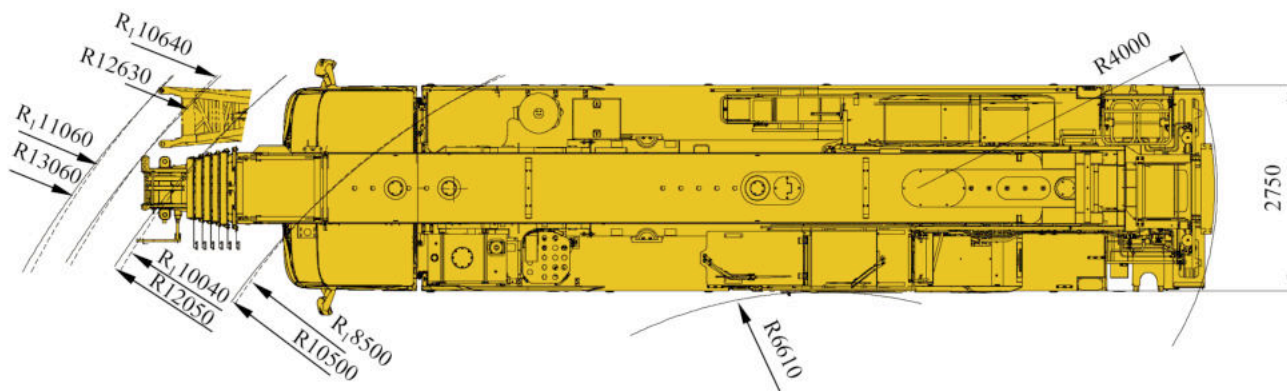
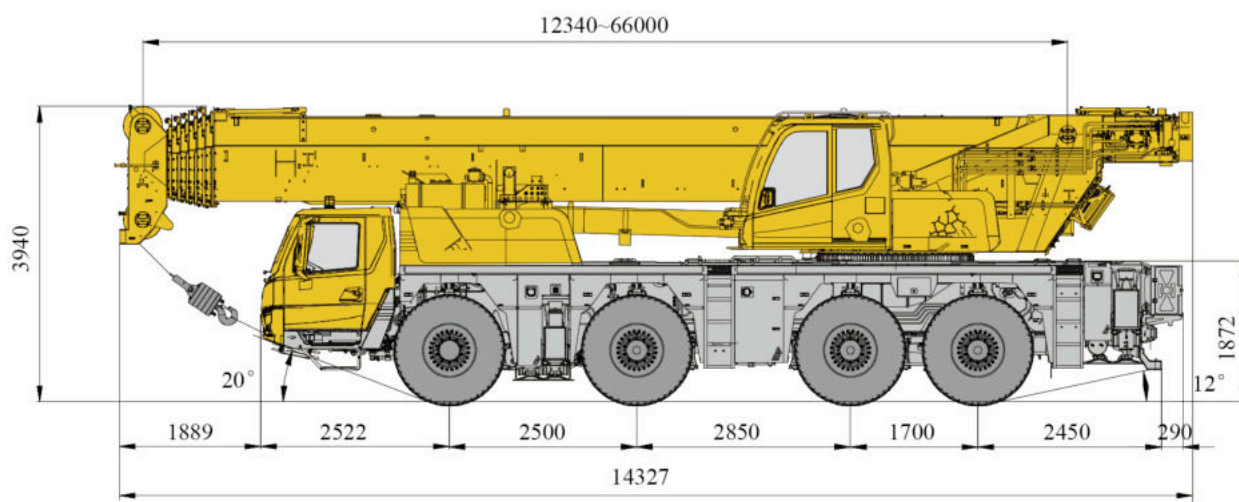


The backup camera helps the driver observe the situation behind the vehicle more clearly when reversing or driving at low speeds.

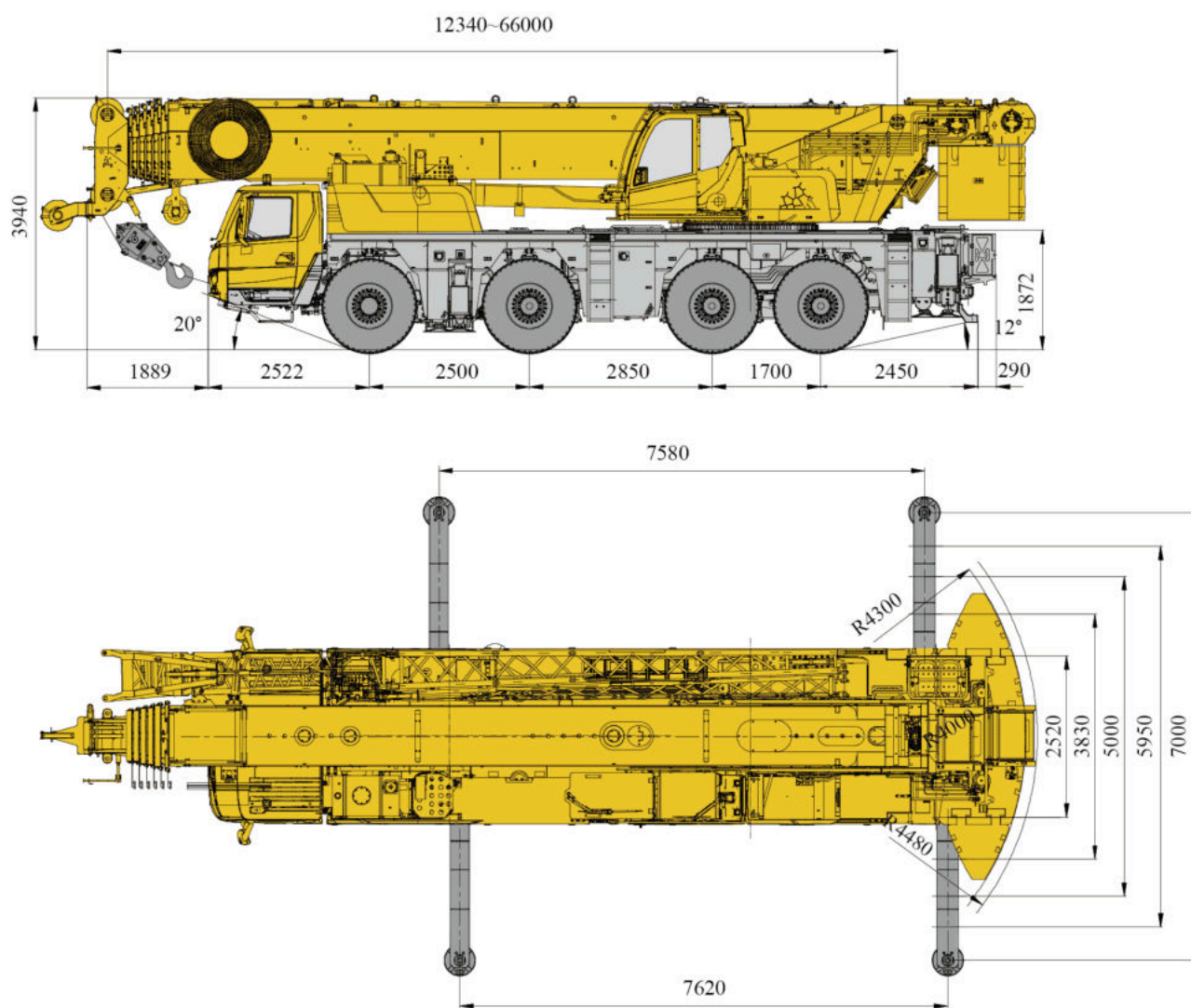


The anemometer is used to monitor the wind speed and direction of the surrounding environment in real time, helping the operator make timely safety decisions.

DIMENSIONS



R: turning radius in the road steering mode; R1: turning radius in tight-turning radius steering mode.



TECHNICAL SPECIFICATIONS



CHASSIS

Frame	Designed and manufactured by XCMG, made of high strength steel.
Outriggers	H-shaped outriggers, with push-pull outrigger floats. There are four working positions (fully extended, 3/4 extended, half extended and 1/4 extended) to meet different OM requirements. Outrigger control panel is controlled by CAN bus located at two sides of the chassis. Outrigger float dimensions: ϕ 490 mm. Maximum outrigger reaction force: front outrigger: 565 kN (57614 kgf); rear outrigger: 722 kN (73623.5 kgf).
Engine	MTU engine OM471LA.E5-2, with maximum net power of 360 kw/1600 rpm and maximum torque of 2400 Nm/1300 rpm, compliant with EU Stage V emission standard. Fuel tank capacity: 420 L; AdBlue/DEF tank capacity: 40 L.
Hydraulic system	Variable pump is connected to the engine through PTO for controlling the independent cooling, steering, outrigger and suspension hydraulic systems.
Transmission	ZF Germany AMT transmission 12TX2616S0, 12 forward gears and 2 reverse gears available with retarder.
Safety devices	360° panoramic image, ABS, outrigger pressure detection, outrigger length detection and axle load detection are available.
Axles	High-strength axles 2-4 are equipped with two reducers, and pneumatically-controlled disc brake are installed in axles 1~4. Axles 2, 3 and 4 are for driving; Driving/steering mode: 8×8×6.
Suspension	Hydro-pneumatic independent suspension system has good shock-absorbing effect. Various functions such as automatic leveling, moving up and down of suspension, and switching between locked and unlocked suspension are available. The stroke of suspension cylinder: -110 mm~+110 mm.
Tires	8 tires and 1 spare tire. Tire specification: 445/95R25.
Brakes	Service brake: dual-circuit air pressure brake, acting on all wheels. Parking brake: spring-loaded brake, acting on axles 2~4. Auxiliary brake: engine in-cylinder brake and transmission retarder brake.
Steering	All axles for steering; axle 1 adopts the mechanical and hydraulic power steering, and axles 2~4 adopt the electro-hydraulic control steering. It is suitable for various demands of operation modes and several steering modes can be realized.
Driver's cab	New full dimension steel structure cab is equipped with safety glass, electrically-operated door window lifter, electric adjustable rearview mirrors, multi-function steering wheel, airbag for the driver's seat and the co-driver's seat. There is a brand-new combined central control panel arranged with arc shape, 12.3-inch large screen color LCD display, audio system, 6 kg fire extinguisher and HVAC available.
Electrical system	DC 24 V, with 2 sets of 12 V batteries in series.

**SUPERSTRUCTURE**

Structure	Designed and manufactured by XCMG, made of high strength steel.
Hydraulic system	Two axial variable pumps are driven by the transmission for luffing, telescoping and winch operations; the slewing system adopts a separate closed hydraulic circuit driven by the engine, with proportional slewing brake to improve slewing maneuverability; dual slewing motors enhance low-speed slewing stability; the hydraulic oil cooler uses temperature feedback control to reduce vehicle noise. Hydraulic oil tank capacity: 645 L.
Control system	Pilot electro-hydraulic proportional control, stepless speed regulation. All movements of the crane are controlled by 2 levers at left and right sides and virtual buttons on the display screen.
Wireless remote control	Full-function wireless remote control device can be used to perform main operations (telescoping, luffing, winch, slewing), auxiliary operations (operator's cab, counterweight cylinders, swing-away jib folding/unfolding), chassis outrigger operation, engine operation and light control, improving the convenience and safety of crane operations.
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. Main winch and auxiliary winch are independently operated. Wire rope has a rope end, which is directly installed in rope socket.
Slewing system	Single-row four-point ball contact external tooth slewing bearing bearing is driven by hydraulic motor, with built-in planetary gear reducer and constant-closed brake equipped, and can continuously slew 360°. Power control and free slewing function as well as stepless speed regulation are available.
Operator's cab	New steel cab can tilt backward 20°. It features a spacious, panoramic, and multi storage layout. 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 the windshield and roof window. 2.5 L washer tank is also available. Stylish interior design; 2 kg fire extinguisher; 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. HMI control panel, display, armrest box, engine accelerator pedal, engine start switch are HVAC are also equipped.
Safety devices	Hydraulic counterbalance valve, hydraulic relief valve, hydraulic double-way lock, load moment indicator, winch monitor, lowering limiter to prevent rope over-releasing, anti-two block on the boom head to prevent rope over-winding, and anemometer to detect the wind speed.
Electrical system	DC 24 V, with 2 sets of 12 V batteries in series.
LMI	When the actual load moment is approaching the overloading value, audible and visual warning will be sent out, and the dangerous operation will be automatically cut off before overloading occurs. Overload memory function (black box) and fault diagnosis function are available.
Counterweight	33 t in total; 8 combinations of 3.1 t, 2.1 t, 4.3 t, 4.3 t, 4 t, 5.1 t, 0.9 t, and 4.6 t×2.
Hook blocks	60 t hook block, 25 t hook block and 11 t hook block.
Luffing system	Single cylinder luffing, with counterbalance valve featuring the load compensation function.
Boom	7-section boom with U-shaped cross-section, welded structure. Single cylinder pinning telescoping system with dual-cylinder head is safer and more reliable. 46%, 92% and 100% telescoping patterns are available. Boom length: 12.3 m ~ 66 m.

Other items of equipment available on request.

CONFIGURATION AND OPTIONAL EQUIPMENT



CONFIGURATION

FUNCTION DESCRIPTION

Standard

7-section boom of 66 m.

Note: only standard configuration is available for this model.



OPTIONAL EQUIPMENT

COMPONENT DESCRIPTION

Hook blocks

130 t hook block and 90 t hook block.

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. Main winch and auxiliary winch are independently operated. Wire rope has a rope end, which is directly installed in rope socket.

Additional sheave

To increase the parts of line and realize greater lifting capacity.

Wireless zoom camera

Wireless zoom camera monitors the status of the boom head, expanding the operator's field of view.

18.5 m stepless jib

18.5 m hydraulic luffing jib

18.5 m mechanical jib

18.5 m mechanical luffing jib

14 m extension

Boom extension of 7 m×2

Independent jib head

Independent jib head of 2.9 m.

Rear towing device

For towing the trailer at the rear of the vehicle.

Emergency power

Provide power source for superstructure winch, slewing and luffing systems.

Wheel chock

Provide additional safety guarantee when the crane is parked.

Heating system

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

GPS

Provide accurate positioning and real-time monitoring of the crane.

Electric eddy-current retarder brake

Help reduce friction during braking operation, increase braking efficiency and prolong the service life of braking system.



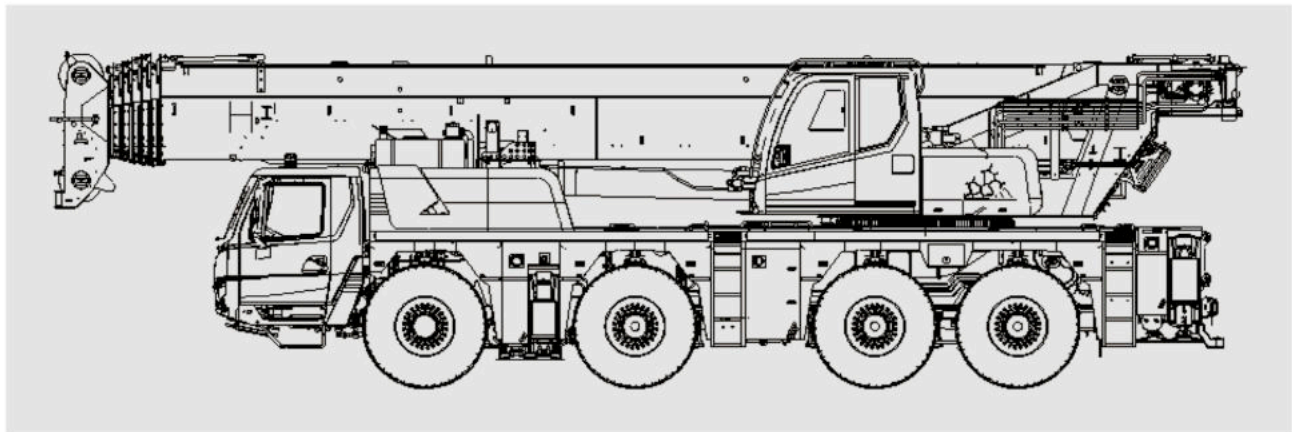
	1	2	3	4	TOTAL WEIGHT
t	12	12	11.5	11.5	47 t ⁽¹⁾
t	12	12	12	12	48 t ⁽²⁾
t	13.5	13.5	12	12	51 t ⁽³⁾
t	13.5	13.5	12.5	12.5	51.5 t ⁽⁴⁾
t	14.5	14.5	14.5	14.5	57.5 t ⁽⁵⁾
t	16.5	16.5	16.5	16.5	66 t ⁽⁶⁾

(1) Jobsite transfer configuration 1: 47 t

Superstructure: 11 t hook block, counterweight, jib, jib bracket and rubber hose reel are not carried.

Chassis: coupling device is carried on board and toolbox is not carried.

Maximum travel speed: 80 km/h.

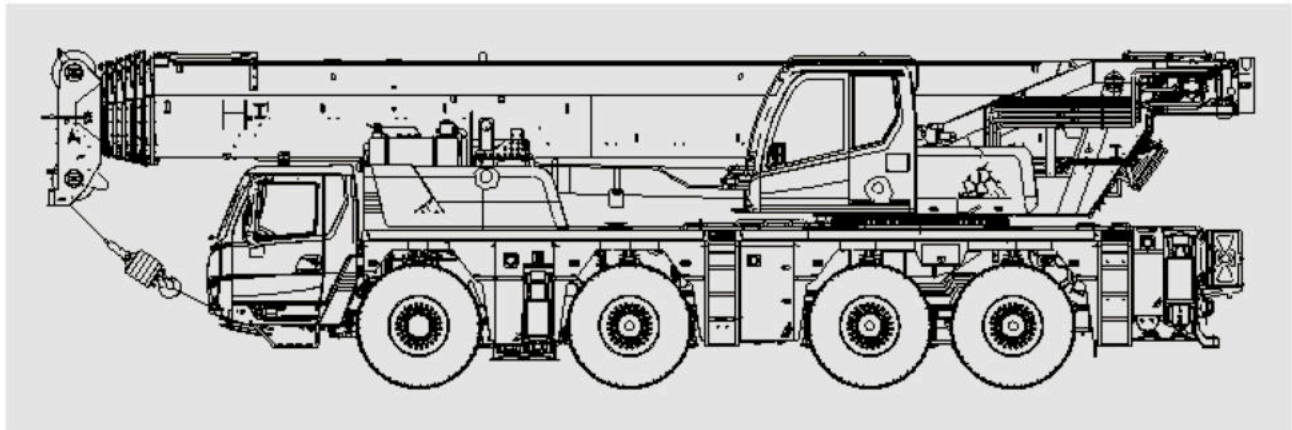


(2) Jobsite transfer configuration 2: 48 t

Superstructure: 11 t hook block and 0.9 t counterweight are carried on board; jib, jib bracket and rubber hose reel are not carried.

Chassis: toolbox is carried on board.

Maximum travel speed: 80 km/h.



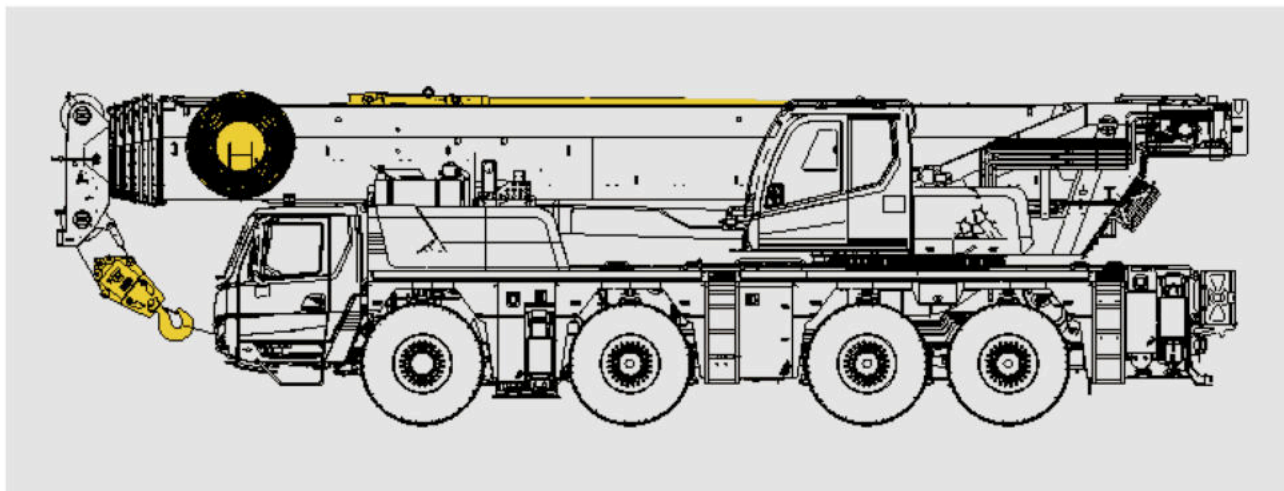
WEIGHTS

(3) Jobsite transfer configuration 3: 51 t

Superstructure: 25 t hook block, 0.9 t counterweight, jib, jib bracket and rubber hose reel are carried on board.

Chassis: toolbox is carried on board.

Maximum travel speed: 65 km/h.

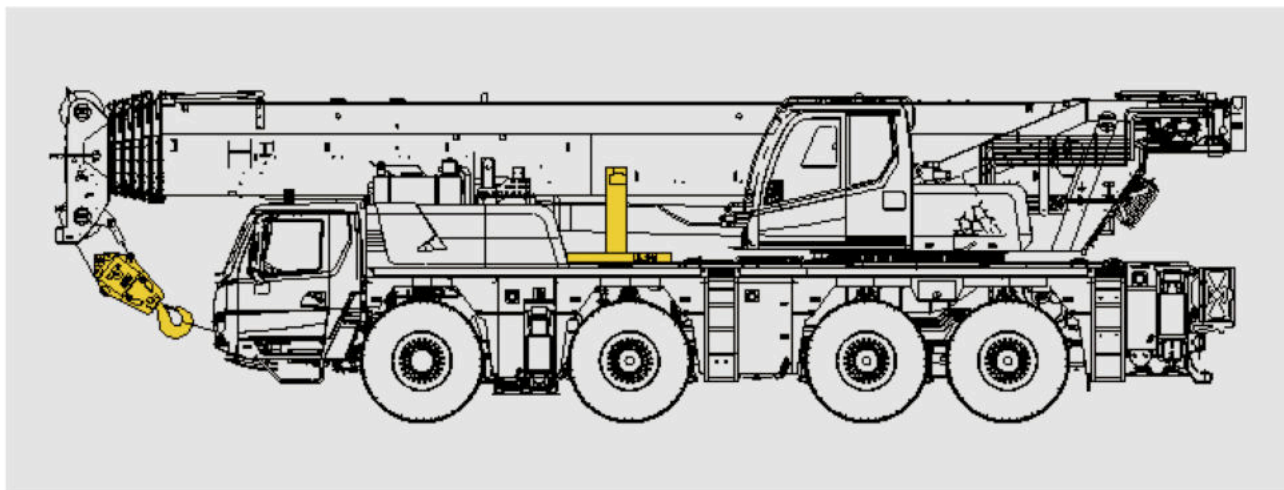


(4) Jobsite transfer configuration 4: 51.5 t

Superstructure: 25 t hook block and 4 t counterweight are carried on board; jib, jib bracket and rubber hose reel are not carried.

Chassis: toolbox is carried on board.

Maximum travel speed: 65 km/h.

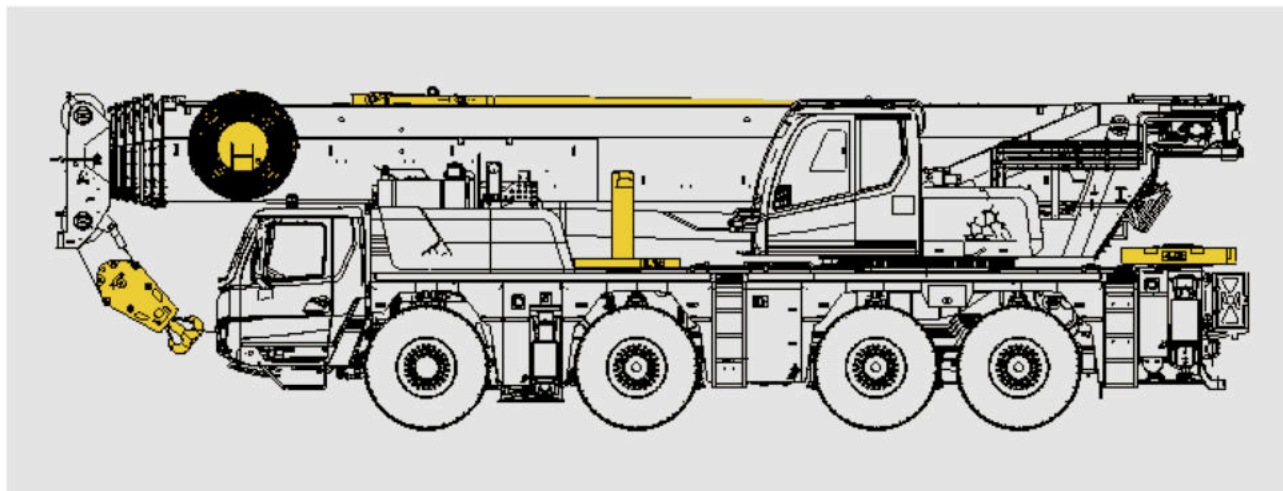


(5) Jobsite transfer configuration 5: 57.5 t

Superstructure: 60 t hook block and 7.1 t counterweight, jib, jib bracket and rubber hose reel are carried on board.

Chassis: toolbox is carried on board.

Maximum travel speed: 35 km/h.

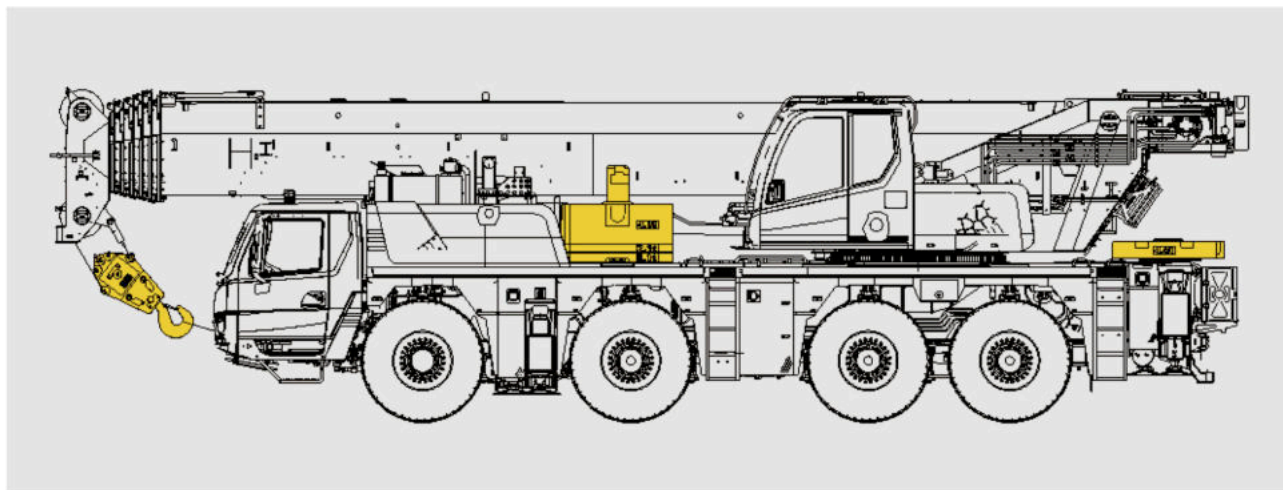


(6) Jobsite transfer configuration 6: 66 t

Superstructure: 25 t hook block and 18.7 t counterweight are carried on board; jib, jib bracket and rubber hose reel are not carried.

Chassis: toolbox is carried on board.

Maximum travel speed: 30 km/h.



WEIGHTS



	PARTS OF LINE	HOOK BLOCK WEIGHT (kg)	DIMENSIONS (mm)	NOTES
130 t	14	1200	1907×860×837	Dual-hook
90 t	10	920	1668×774×673	Dual-hook
60 t	7	560	1470×780×493	Dual-hook
25 t	3	365	1468×651×318	Single-hook
11 t	1	227	810×320×320	Single-hook

WORKING SPEEDS



445/95 R 25 (16.00 R 25)

2~80 km/h

60%



0-135 m/min, single line, no load

89 kN

20 mm

250 m



0-135 m/min, single line, no load

89 kN

20 mm

205 m



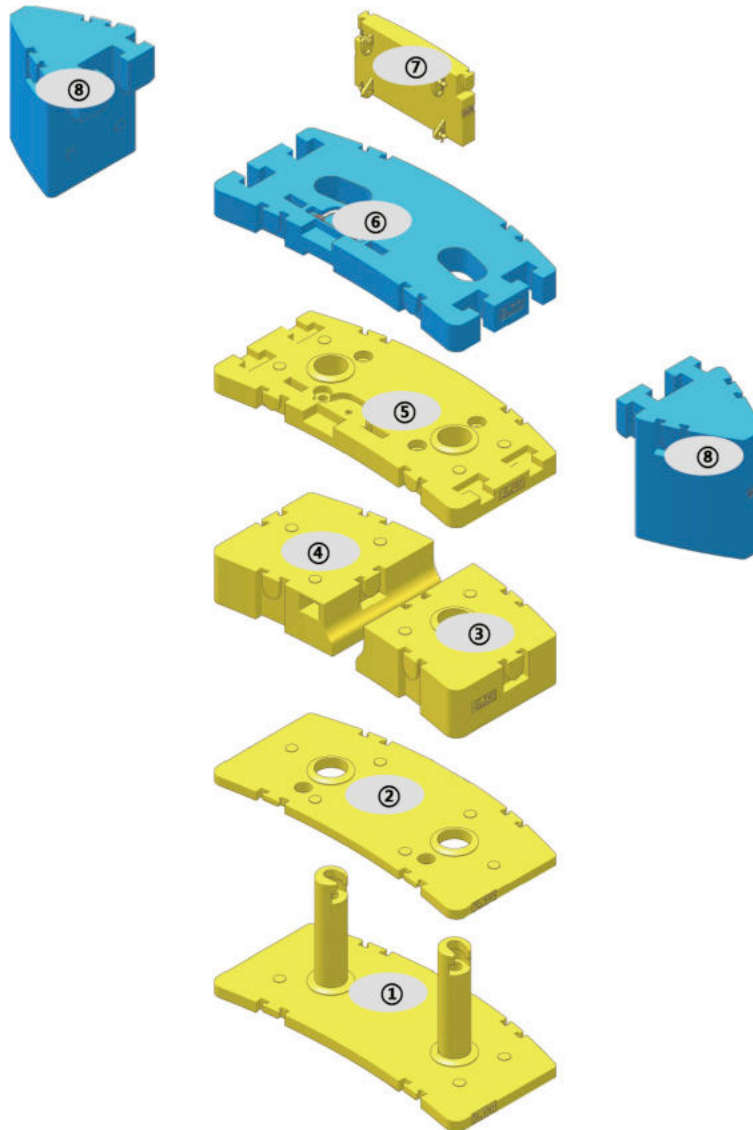
0-1.45 r/min



Approx. 60 s for boom luffing up from -0.5° to 82°



Approx. 800 s for boom extending from 12.3 m to 66 m



	①	②	③	④	⑤	⑥	⑦	⑧
Dimensions (L×W×H) (mm)	2750×1372×1150	2750×1372×130	1245×1372×505	1245×1372×505	2750×1372×232	2750×1372×270	1200×650×281	1110×100×1153
Weight (t)	3.1	2.1	4.3	4.3	4	5.1	0.9	4.6

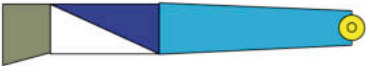
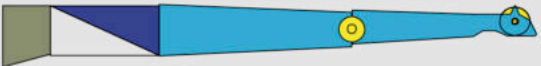
Operation modes	33 T	23.8 T	18.7 T	14.7 T	7.1 T	6.1 T	4 T	0.9 T
Combinations	① + ② + ③ + ④ + ⑤ + ⑥ + ⑦ + ⑧ ×2	① + ② + ③ + ④ + ⑤ + ⑥ + ⑦	① + ② + ③ + ④ + ⑤ + ⑦	① + ② + ③ + ④ + ⑦	① + ⑤	① + ② + ⑦	① + ⑦	⑦

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 COMBINATIONS

COMPONENTS	STRUCTURE	LENGTH (m)
1st jib section		6.5
2nd jib section		7.5
Boom extension		7.0
Offsetting bracket		3.4
Connecting bracket		1.1

FIXED JIB

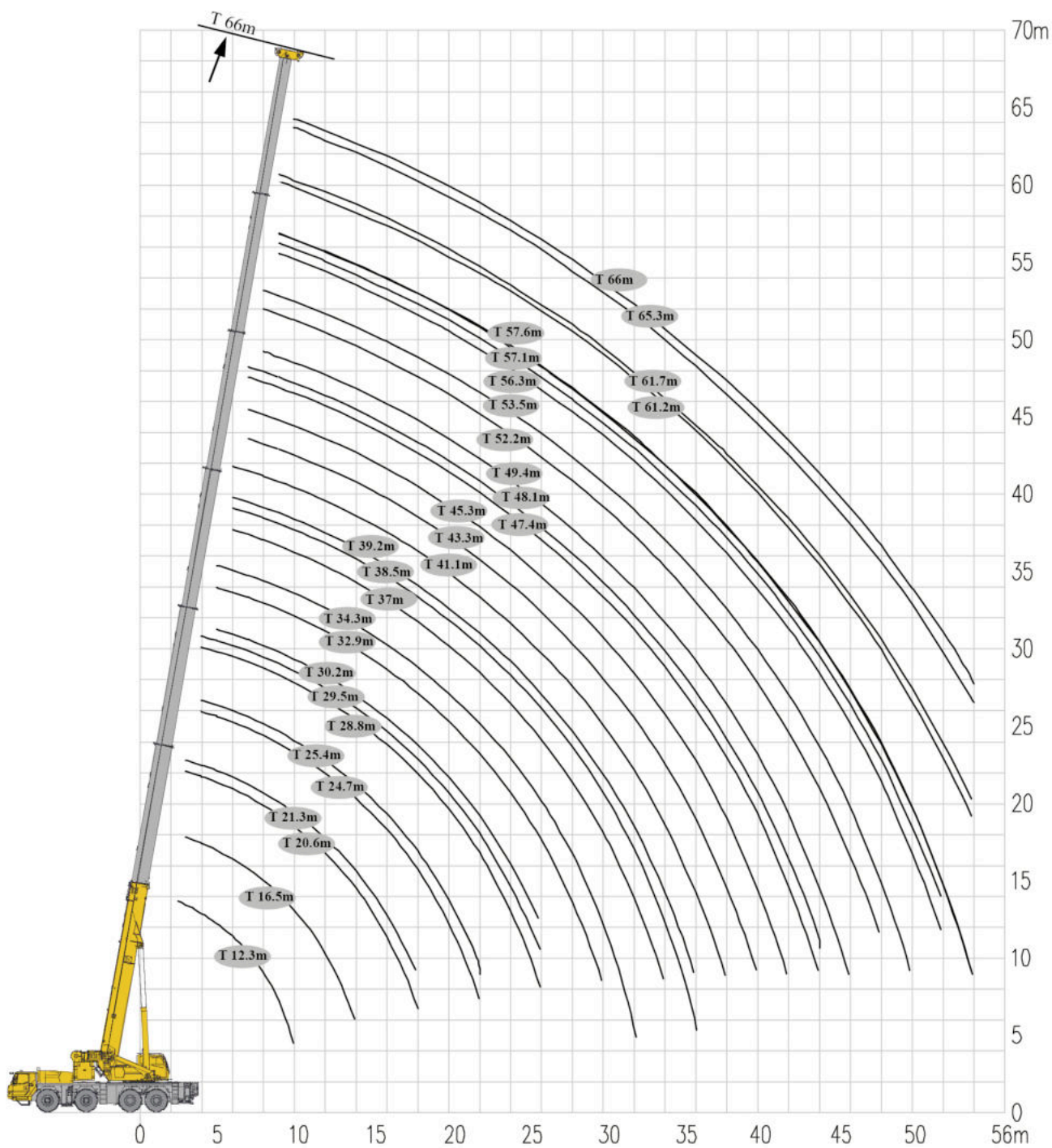
Fixed jib – 11 m	
Fixed jib – 18.5 m	
Fixed jib – 25.5 m	
Fixed jib – 32.5 m	

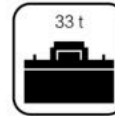
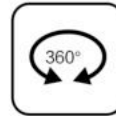
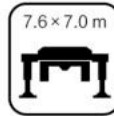
BOOM	INDEPENDENT JIB HEAD	FIXED JIB	BOOM EXTENSION+FIXED JIB
T: 12.3-66 m	T: 12.3-66 m l: 2.9 m	T: 12.3-65.3 m F: 11 m/18.5 m	T: 12.3-61.7 m F: 18.5 m V: 7 m/14 m



WORKING RANGE DIAGRAM

BOOM



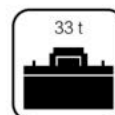
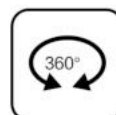
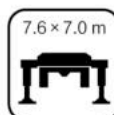
T 12.3-39.2 m

	12.3*	12.3	16.5	20.6	21.3	24.7	25.4	28.8	29.5	30.2	32.9	34.3	37.0	38.5	39.2	
2.5	120**															2.5
3	80.0	70.0	67.0	65.0	36.3											3
3.5	78.0	70.0	65.4	63.0	34.0											3.5
4	72.0	66.4	65.1	60.2	31.8	57.0	30.0	55.3	28.0							4
4.5	68.0	61.7	61.0	56.8	30.1	54.0	30.0	52.0	26.8							4.5
5	64.0	57.4	57.4	54.0	28.6	50.5	29.6	48.8	25.5	25.5	46.9	24.0				5
6	55.0	50.1	50.1	48.5	25.5	46.7	26.9	44.3	23.1	23.2	42.5	22.6	40.8	21.5	21.5	6
7	48.0	45.0	46.0	45.0	23.4	43.2	24.3	40.9	20.9	21.1	38.5	21.0	38.7	20.5	20.4	7
8	41.0	39.5	40.6	40.5	21.5	39.7	22.1	37.9	19.0	19.4	35.4	19.5	34.2	19.4	19.4	8
9	34.5	34.5	36.1	36.0	19.7	36.5	20.4	35.5	17.6	17.8	32.6	18.2	31.4	18.3	18.3	9
10	26.5	26.5	32.1	32.5	18.2	32.2	19.1	32.8	16.2	16.5	30.1	16.9	29.7	17.2	17.2	10
12			25.6	25.8	16.0	26.6	16.6	26.2	14.3	14.4	25.6	14.7	26.0	15.3	15.2	12
14			19.4	21.5	14.3	22.3	14.6	22.0	12.5	12.7	22.1	13.2	21.6	13.7	13.7	14
16				18.1	12.7	19.0	13.1	18.1	11.1	11.3	18.6	11.8	17.6	12.4	12.3	16
18				15.1	11.5	16.0	11.8	15.5	10.0	10.2	15.9	10.7	15.2	11.3	11.3	18
20						13.7	10.7	13.4	9.1	9.3	13.5	9.7	13.4	10.3	10.4	20
22						11.6	9.9	11.7	8.3	8.5	11.5	8.9	11.8	9.6	9.6	22
24								10.6	7.6	7.8	9.9	8.2	10.4	8.9	8.9	24
26								9.3	7.1	7.2	8.9	7.6	9.1	8.3	8.2	26
28											8.0	7.1	8.0	7.7	7.7	28
30											7.2	6.6	7.1	7.2	7.2	30
32												4.8	6.3	6.7	6.7	32
34													5.6	6.1	6.1	34
36														4.6	5.5	36

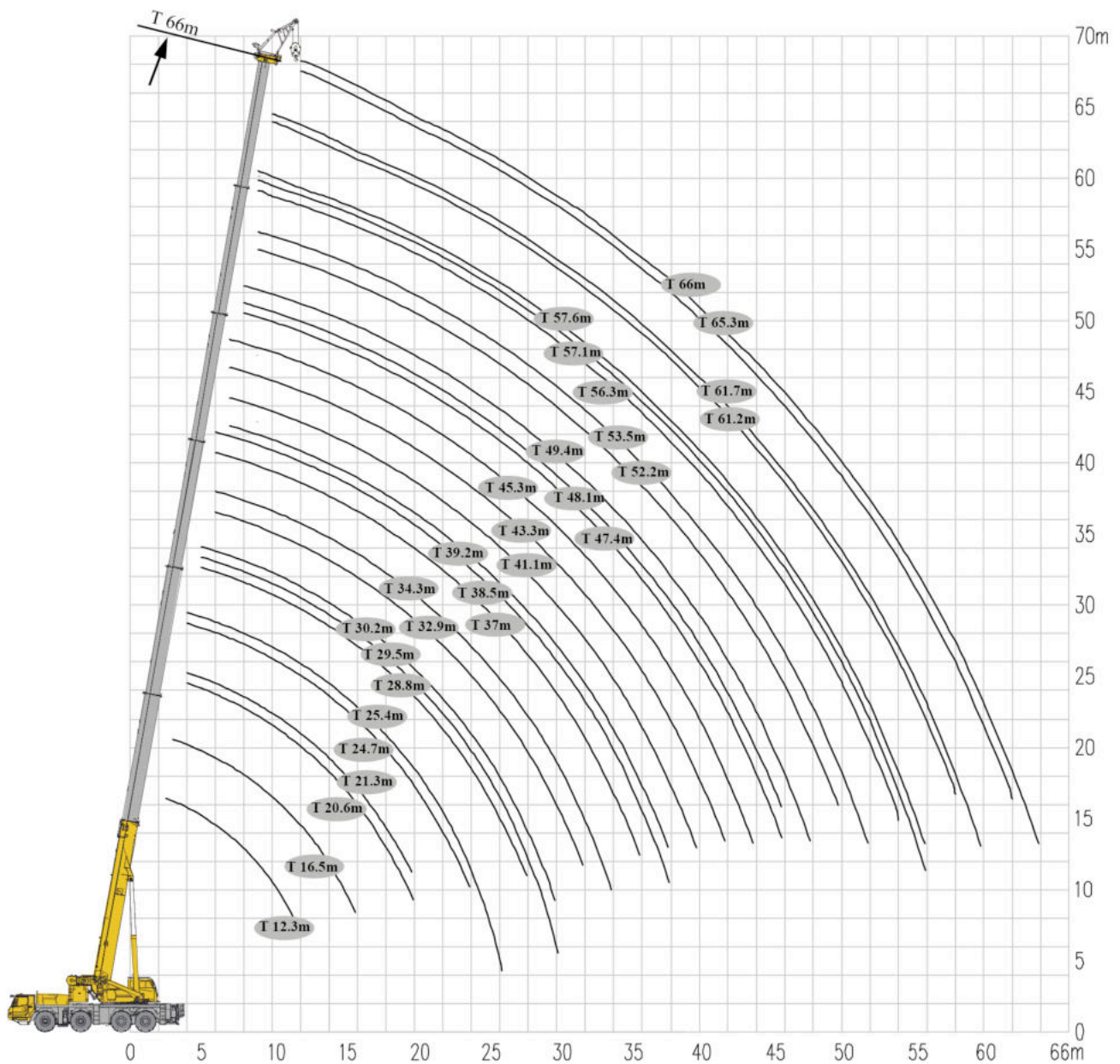
*: Operation over rear **: Capacity class

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T 41.1-66 m

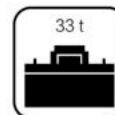
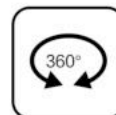
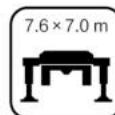


	41.1	43.3	45.3	47.4	48.1	49.4	52.2	53.5	56.3	57.1	57.6	61.2	61.7	65.3	66	
6	40.3															
7	36.8	16.0	29.0	17.3												7
8	33.1	16.0	29.0	16.5	18.5											8
9	30.4	15.7	27.4	15.8	17.3	23.8	13.6	18.2								9
10	27.6	15.3	26.1	15.0	15.9	23.2	13.2	18.2	12.4							10
12	24.2	14.5	22.7	13.5	13.8	21.2	12.6	18.0	11.7	11.6	14.2	10.7	11.4			12
14	20.7	13.7	19.6	12.4	12.1	18.8	11.9	16.4	11.0	10.9	14.3	10.3	11.2	9.0	8.8	14
16	17.5	12.9	16.5	11.5	10.7	16.4	11.2	15.0	10.4	10.2	13.3	9.8	11.1	8.8	8.6	16
18	14.7	12.1	14.4	10.7	9.6	13.9	10.5	13.2	9.9	9.8	12.0	9.5	10.5	8.6	8.3	18
20	12.9	11.4	12.6	9.9	8.6	11.6	9.9	11.4	9.3	9.3	10.9	9.1	10.0	8.4	8.0	20
22	11.4	10.7	11.4	9.3	7.8	10.0	9.3	10.2	8.9	8.8	9.8	8.6	9.2	8.0	7.6	22
24	9.9	9.9	9.9	8.7	7.1	8.9	8.6	8.9	8.3	8.2	8.7	8.1	8.1	7.5	7.1	24
26	8.6	9.0	8.6	8.2	6.4	8.1	7.8	8.1	7.3	7.3	7.6	6.8	7.2	7.1	6.6	26
28	7.5	8.0	7.6	7.3	6.0	7.2	6.9	7.3	6.4	6.4	6.7	6.1	6.3	6.2	6.1	28
30	6.7	7.0	6.7	6.5	5.5	6.4	6.1	6.5	5.7	5.7	6.1	5.4	5.7	5.4	5.3	30
32	6.1	6.3	5.9	5.8	5.1	6.0	5.4	5.7	5.0	5.0	5.5	4.7	5.0	4.7	4.7	32
34	5.7	5.6	5.3	5.2	4.7	5.4	4.8	5.2	4.5	4.4	4.8	4.2	4.4	4.1	4.1	34
36	5.2	5.0	4.9	4.7	4.3	4.8	4.3	4.7	4.0	3.9	4.3	3.7	3.8	3.6	3.6	36
38	4.8	4.5	4.5	4.2	4.1	4.4	3.9	4.1	3.5	3.5	3.8	3.2	3.3	3.2	3.1	38
40		4.0	4.1	3.8	3.7	3.9	3.5	3.7	3.1	3.1	3.3	2.9	2.9	2.8	2.7	40
42		3.6	3.4	3.4	3.5	3.4	3.1	3.2	2.8	2.8	2.9	2.5	2.5	2.4	2.4	42
44				3.1	3.2	3.1	2.8	2.9	2.5	2.5	2.6	2.2	2.2	2.1	2.0	44
46						2.8	2.5	2.6	2.2	2.2	2.3	1.9	1.8	1.8	1.7	46
48							2.2	2.3	1.9	1.9	1.9	1.6	1.5	1.5	1.5	48
50								1.8	1.7	1.7	1.6	1.4	1.3	1.2	1.2	50
52									1.5	1.5		1.2		1.0	1.0	52
54												0.9		0.8	0.8	54

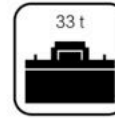
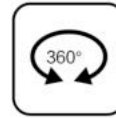
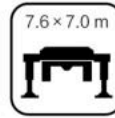
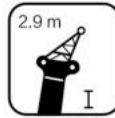
INDEPENDENT JIB HEAD

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T 12.3-39.2 m



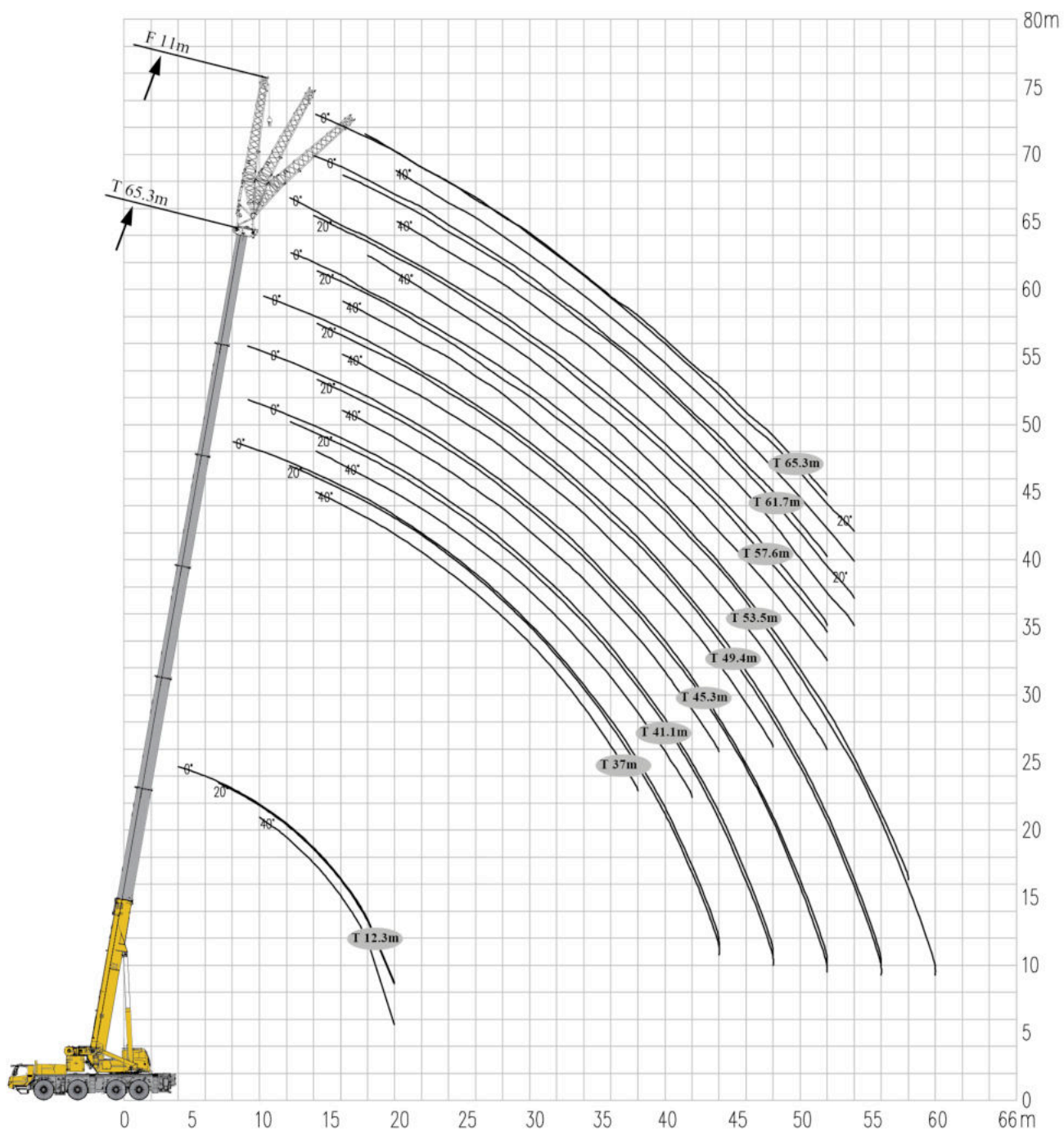
	12.3	16.5	20.6	21.3	24.7	25.4	28.8	29.5	30.2	32.9	34.3	37.0	38.5	39.2	
3	30														3
3.5	30														3.5
4	29.1	30	30	23.6	30	22.3									4
4.5	27.5	29.8	30	22.7	30	21.3									4.5
5	25.7	28.8	30	21.8	30	20.4	30	17.6	17						5
6	23	27	28.7	19.9	29.7	18.4	30	16.1	15.5	30	15.4	30	14.2		6
7	21.2	24.5	27.3	18.2	28.4	16.7	29.1	14.6	14	29.5	14.2	29.4	13.3	12.8	7
8	19.4	22.6	25.4	16.6	27.1	15.7	28.2	13.4	12.8	28.6	13	28.6	12.3	12	8
9	17.6	20.8	23.7	15.5	25.6	14.5	26.5	12.2	11.8	27.1	11.9	27.8	11.3	11.1	9
10	16.7	19.7	22.1	14.6	23.9	13.6	25.5	11.5	10.9	26	11	25.1	10.5	10.3	10
12	15	17.1	19.6	12.8	21.6	11.8	22.8	9.9	9.5	22.7	9.6	22.1	9.1	9	12
14		16.3	17.7	11.3	19.3	10.4	19.4	8.9	8.6	19.4	8.6	18.5	8.2	8.1	14
16		14.6	15.9	9.9	17.5	9.3	17	8.1	7.7	16.8	7.8	15.9	7.3	7.1	16
18			15	9.4	15	8.6	15	7.3	6.8	15	6.9	14.1	6.4	6.3	18
20			13.1	8.3	13.6	7.8	13	6.3	6	13	6	12.1	5.6	5.5	20
22					11.8	7.2	11.6	5.7	5.4	11.3	5.4	10.4	5.1	4.9	22
24					10.2	6.6	10.1	5.2	4.9	9.7	4.9	9.4	4.6	4.5	24
26						5	8.8	4.8	4.5	8.4	4.5	8.2	4.1	4.1	26
28							7.7	4.4	4.1	7.5	4.1	7.2	3.8	3.7	28
30								4	3.8	6.6	3.8	6.3	3.4	3.4	30
32										5.8	3.5	5.5	3.2	3.1	32
34											3.1	4.7	2.8	2.8	34
36												4	2.6	2.5	36
38													2.4	2.3	38

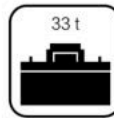
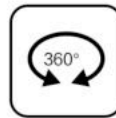
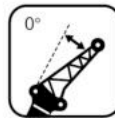
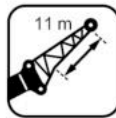
T 41.1-66 m

	41.1	43.3	45.3	47.4	48.1	49.4	52.2	53.5	56.3	57.1	57.6	61.2	61.7	65.3	66	
7	29.2	13.9	25.1													7
8	27.5	13	24.3	13.2	13.1	18.2										8
9	25.7	12.2	23	12.5	12.3	18.2	12.8	13.3								9
10	23.8	11.3	21.3	11.7	11.6	18.2	12.8	15.3	11.2	10.6	12					10
12	21	9.8	18.4	10.2	10.1	16.8	12.6	15.3	11.2	10.6	12	9.1	9.7	7.8		12
14	18.3	8.7	16.4	9.1	9.1	14.6	11.2	14.3	10.8	10.6	12	9.1	9.7	7.7	7.5	14
16	15.9	8	14.6	8.2	8.1	12.9	9.7	12.8	9.9	9.7	11.2	9.3	9.7	7.5	7.4	16
18	13.2	7.1	13.1	7.4	7.3	11.6	8.7	11.3	8.6	8.6	10.1	8.9	9.3	7.4	7.2	18
20	11.3	6.2	11.3	6.5	6.4	10	7.7	9.6	7.6	7.4	8.8	7.7	8.1	6.9	6.7	20
22	10.4	5.7	10	5.9	5.9	8.8	6.8	8.6	6.9	6.8	7.8	6.8	7.2	6.6	6.5	22
24	9	5.2	8.6	5.4	5.3	7.9	6.2	7.8	6.1	6.1	7	6.2	6.4	5.9	5.8	24
26	8	4.7	7.7	4.9	4.8	7.2	5.5	6.9	5.6	5.6	6.2	5.7	5.8	5.4	5.3	26
28	7	4.3	6.6	4.4	4.3	6.5	5	6.3	5.1	5.1	5.7	5	5.3	4.7	4.8	28
30	6	4	5.9	4.1	4	5.8	4.6	5.8	4.5	4.5	5.2	4.6	4.8	4.3	4.3	30
32	5.5	3.7	5.3	3.9	3.6	5	4.3	5.3	4.1	4	4.7	4.1	4.3	3.8	3.8	32
34	4.8	3.4	4.5	3.5	3.5	4.2	3.8	4.8	3.7	3.7	4.3	3.7	3.8	3.4	3.4	34
36	4.1	3.1	4.2	3.3	3.2	4.1	3.5	4.2	3.4	3.3	3.8	3.2	3.4	3	3	36
38	3.6	2.9	3.8	3	3.1	3.8	4.1	3.8	2.9	3	3.5	3	3.1	2.7	2.7	38
40	3	2.6	3.2	2.8	2.7	3.5	3.5	3.2	3.3	3.3	2.9	2.6	2.6	2.4	2.3	40
42		2.4	2.8	2.6	2.6	3	3.1	2.8	2.9	2.8	2.5	2.3	2.2	2.1	2.1	42
44			2.5	2.4	2.4	2.6	2.7	2.4	2.5	2.4	2.1	2.1	1.8	1.8	1.8	44
46				2.3	2.2	2.3	2.3	2.1	2.1	2.1	1.7	1.8	1.4	1.5	1.4	46
48						2	2	1.7	1.8	1.8	1.4	1.4	1.1	1.2	1.1	48
50							1.7	1.4	1.5	1.5	1.1	1.1	0.8	0.9	0.8	50
52								1.2	1.2	1.2	0.8	0.9		0.6		52
54									1	0.9	0.6	0.6				54
56										0.7						56

WORKING RANGE DIAGRAM

FIXED JIB

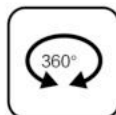
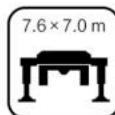
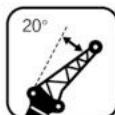


FIXED JIB

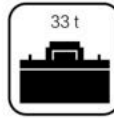
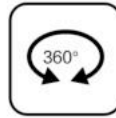
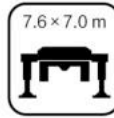
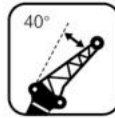
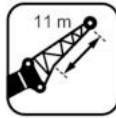
	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	
4	17									4
4.5	17									4.5
5	17									5
6	17									6
7	17									7
8	17	15.8								8
9	16.8	15.8	13.5	12.6						9
10	15.6	15.8	13.5	12.6						10
12	13.2	15.8	13.5	12.6	11.3	10				12
14	11.4	15.8	13.5	12.6	11.2	9.9	7.8	5.9	4.6	14
16	10	15.6	13.5	12.6	11.1	9.6	7.8	5.9	4.6	16
18	9	14.5	13.5	11.9	10.4	9.4	7.5	5.8	4.5	18
20	8.4	12.5	11.9	10.4	9.2	9.1	7.3	5.7	4.5	20
22		11.6	10.6	9.3	8.4	7.7	7.1	5.6	4.4	22
24		10	9.5	8.4	7.5	6.9	6.4	5.4	4.3	24
26		8.6	8.1	7.6	6.7	6.2	5.8	5.3	4.2	26
28		7.5	7	6.7	6	5.6	5.2	5	4	28
30		6.5	6	5.8	5.5	5.1	4.8	4.6	4	30
32		5.7	5.2	4.9	4.9	4.6	4.4	4.2	3.9	32
34		4.9	4.4	4.2	4.1	4.2	3.9	3.8	3.5	34
36		4.3	3.8	3.6	3.5	3.6	3.6	3.6	3.2	36
38		3.7	3.2	3	2.9	3	3.2	3.2	2.9	38
40		3.2	2.7	2.5	2.4	2.5	2.7	2.9	2.8	40
42		2.8	2.3	2.1	2.2	2.3	2.2	2.4	2.4	42
44		2.4	1.9	1.7	2	2.1	1.8	2	2	44
46			1.5	1.3	1.9	1.9	1.4	1.6	1.6	46
48			1.2	1.1	1.6	1.8	1.1	1.3	1.3	48
50				1	1.5	1.6	0.8	1	1	50
52				0.9	1.4	1.4	0.5	0.7	0.7	52
54					1.2	1.2				54
56					1.1	0.9				56
58						0.7				58

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FIXED JIB

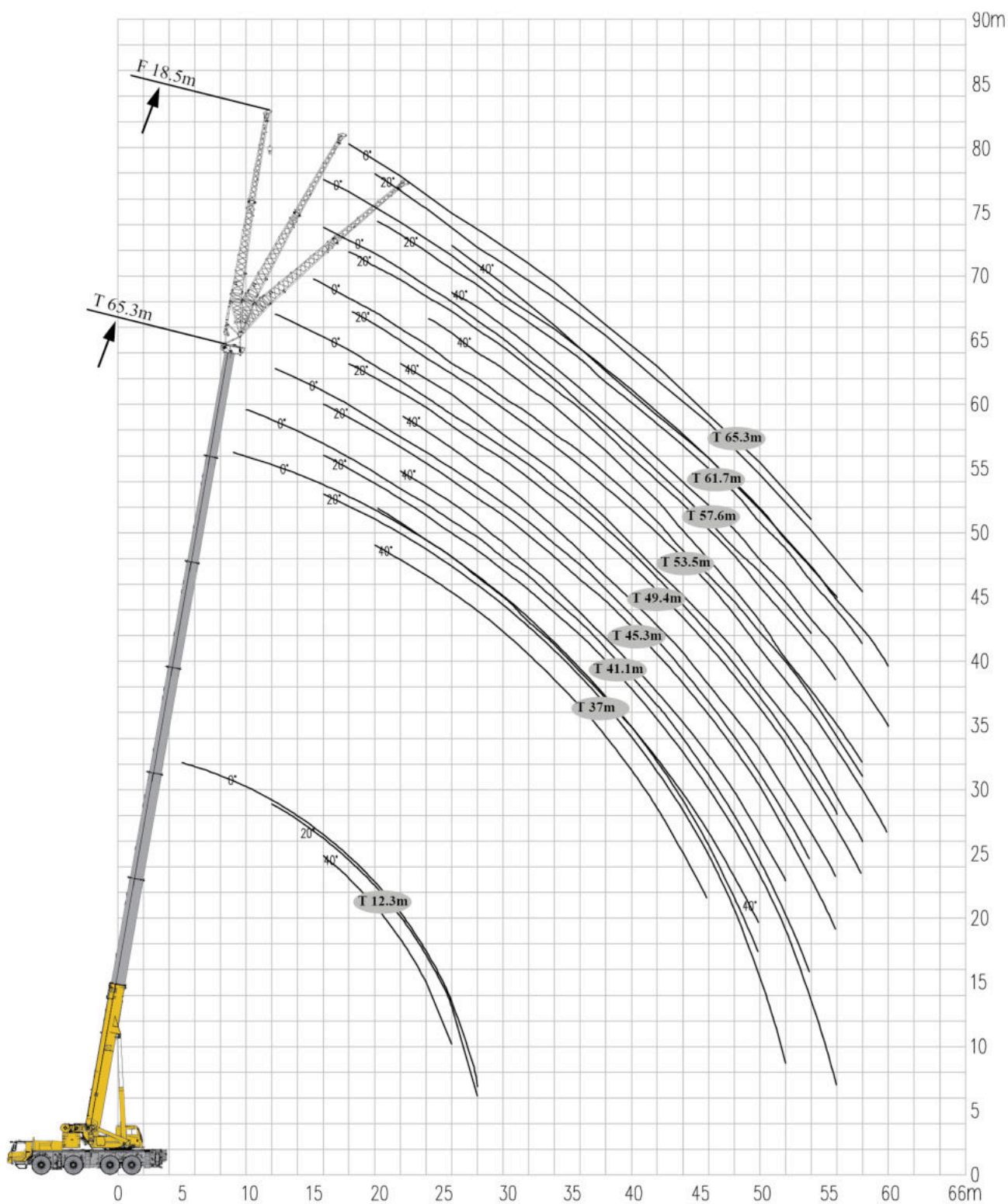


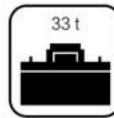
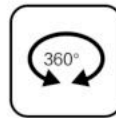
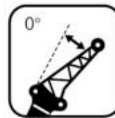
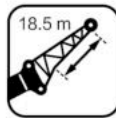
	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	
7	9.7									7
8	9.3									8
9	8.6									9
10	8.4									10
12	7.6	10.3	10.5							12
14	6.9	9.6	9.8	9.9						14
16	6.1	8.9	9.1	9.3	9.3					16
18	5.6	8.5	8.5	8.7	8.9	8.9	7.2	5.7		18
20	5.3	8.3	8.4	8.4	8.4	8.1	7.1	5.6	4.6	20
22		7.9	8.1	8.2	8	7.4	6.8	5.5	4.5	22
24		7.4	7.7	7.9	7.3	6.6	6.1	5.4	4.3	24
26		7.1	7.2	7.3	6.5	6.1	5.6	5.2	4.2	26
28		6.7	6.9	6.6	5.9	5.5	5.1	4.9	4.1	28
30		6.3	6.5	6.1	5.4	4.9	4.6	4.5	4	30
32		6	5.6	5.4	4.9	4.5	4.3	4.1	3.8	32
34		5.3	4.8	4.6	4.5	4.1	3.9	3.7	3.6	34
36		4.6	4.2	4	3.9	3.8	3.6	3.5	3.3	36
38		4	3.5	3.4	3.3	3.4	3.3	3.2	3.1	38
40		3.4	3	2.8	2.8	2.9	3	3	2.8	40
42		2.9	2.5	2.3	2.3	2.4	2.5	2.8	2.6	42
44		2.5	2.1	1.9	2	2.1	2.1	2.3	2.3	44
46			1.7	1.5	1.8	2	1.7	1.9	1.9	46
48			1.3	1.3	1.7	1.9	1.4	1.6	1.5	48
50				1.1	1.6	1.7	1	1.2	1.2	50
52				0.9	1.4	1.6	0.7	0.9	0.9	52
54					1.3	1.3		0.7	0.6	54
56					1.1	1				56
58						0.8				58
60						0.5				60

FIXED JIB

	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	
10	5.7									10
12	5.3									12
14	5	6.1								14
16	4.6	5.8	5.8							16
18	4.5	5.6	5.6	5.7	5.6					18
20	4.5	5.3	5.4	5.4	5.4	5.3	5.5			20
22		5.1	5.2	5.2	5.2	5.2	5.2	5.4		22
24		5	5	5.1	5.1	5	5	5.2	4.4	24
26		4.8	4.9	5	4.9	4.9	4.9	4.9	4.3	26
28		4.6	4.8	4.8	4.8	4.7	4.6	4.5	4.2	28
30		4.6	4.6	4.7	4.6	4.6	4.5	4.3	4	30
32		4.5	4.5	4.6	4.5	4.4	4.3	4.1	3.8	32
34		4.5	4.4	4.5	4.5	4.2	4	3.8	3.5	34
36		4.3	4.4	4.2	4.2	3.9	3.7	3.6	3.3	36
38		4.1	3.7	3.6	3.6	3.7	3.4	3.4	3.1	38
40			3.1	3	3	3.1	3.2	3.1	2.9	40
42			2.6	2.5	2.5	2.6	2.8	3	2.7	42
44				2	2.2	2.3	2.3	2.5	2.5	44
46					1.9	2.2	1.9	2.1	2.1	46
48					1.8	1.9	1.5	1.7	1.7	48
50						1.8	1.2	1.4	1.4	50
52						1.6	0.8	1.1	1.1	52
54								0.8	0.8	54

WORKING RANGE DIAGRAM

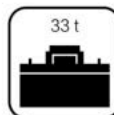
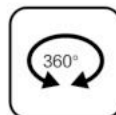
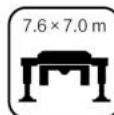
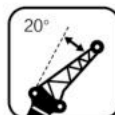


FIXED JIB

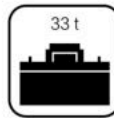
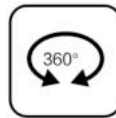
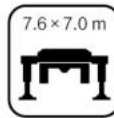
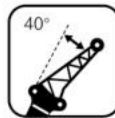
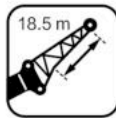
	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	
5	6.8									5
6	6.8									6
7	6.8									7
8	6.8									8
9	6.8	6.8								9
10	6.6	6.7	6.6							10
12	5.5	6.6	6.4	6.1	5.6					12
14	4.7	6.5	6.1	5.9	5.5	4.9	4.3			14
16	4.1	6.3	5.8	5.7	5.3	4.8	4.3	3.7	3	16
18	3.7	6.2	5.7	5.4	5.2	4.6	4.2	3.6	3	18
20	3.3	6.2	5.7	5.4	5	4.5	4.1	3.5	3	20
22	2.9	5.7	5.7	5.4	4.9	4.4	4.1	3.5	3	22
24	2.7	5.2	5.5	5.4	4.9	4.4	4	3.4	2.9	24
26	2.5	4.8	5.1	5.4	4.9	4.4	4	3.4	2.9	26
28	2.3	4.5	4.8	5	4.9	4.4	4	3.4	2.9	28
30		4.1	4.4	4.7	4.9	4.4	4	3.4	2.9	30
32		3.9	4.1	4.3	4.6	4.3	3.9	3.4	2.9	32
34		3.6	3.9	4.1	4.2	3.9	3.5	3.4	2.9	34
36		3.4	3.6	3.8	3.8	3.5	3.2	3.1	2.9	36
38		3.2	3.4	3.5	3.4	3.1	3	2.9	2.7	38
40		3	3.2	3	2.9	2.9	2.7	2.6	2.5	40
42		2.9	2.8	2.5	2.4	2.4	2.5	2.4	2.3	42
44		2.8	2.4	2.1	2	2	2.1	2.2	2.1	44
46		2.5	2	1.8	1.7	1.7	1.8	1.9	1.9	46
48		2.2	1.7	1.4	1.4	1.6	1.4	1.6	1.5	48
50		1.9	1.4	1.1	1.3	1.4	1.1	1.3	1.2	50
52			1.1	0.8	1.1	1.2	0.8	1	0.9	52
54			0.8	0.6	1	1.1	0.6	0.7	0.7	54
56					0.9	1		0.5		56
58						0.8				58

LOAD CHARTS

FIXED JIB

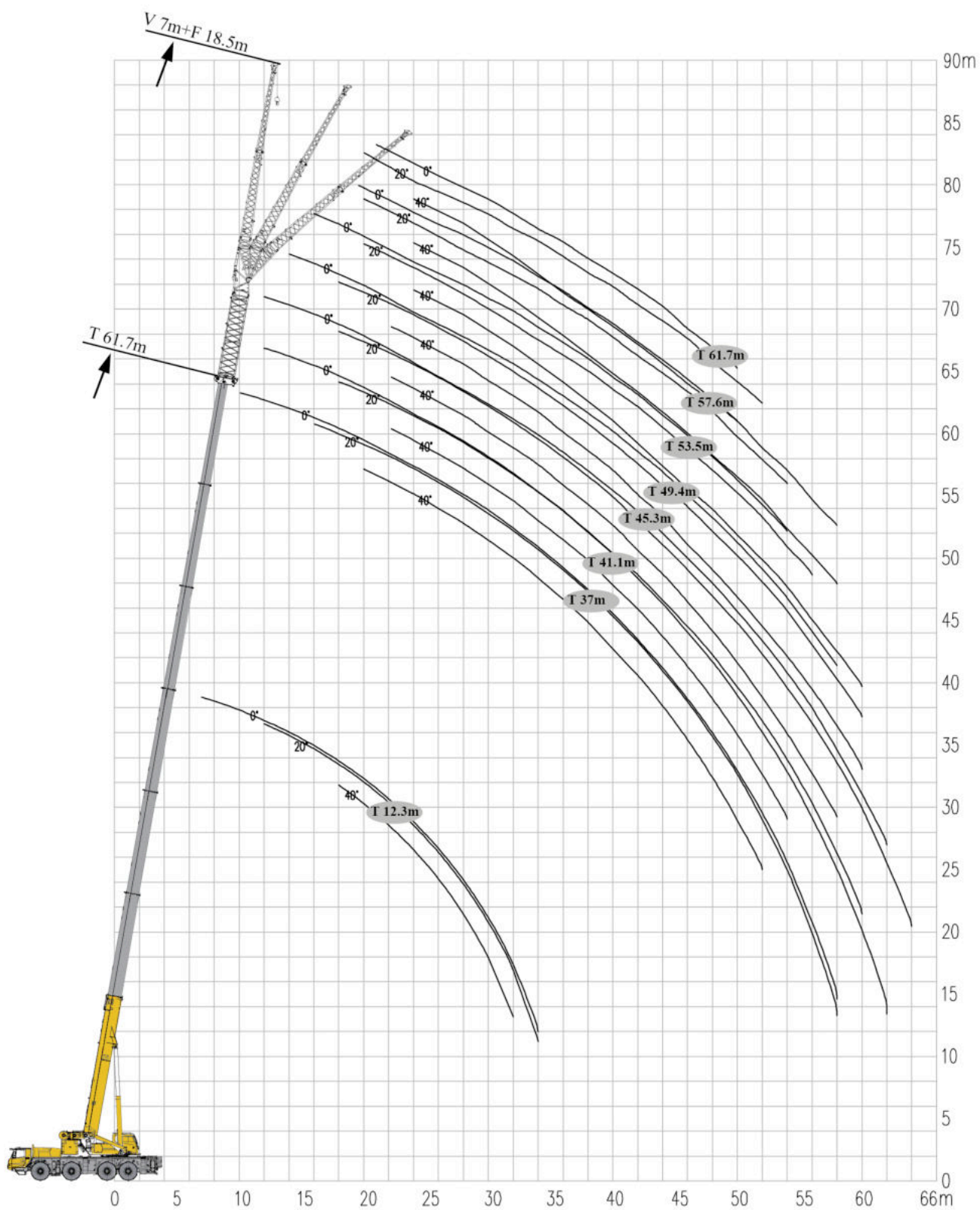


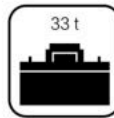
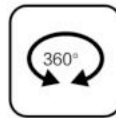
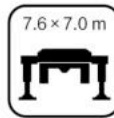
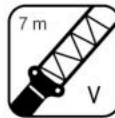
	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	
12	3.4									12
14	3.2									14
16	2.8	3.9	3.9							16
18	2.5	3.6	3.7	3.9	3.9					18
20	2.4	3.4	3.5	3.5	3.7	3.8				20
22	2.2	3.2	3.3	3.4	3.5	3.6	3.7			22
24	2	3	3.1	3.2	3.3	3.3	3.5	3.6	3	24
26	1.9	2.8	3	3	3.1	3.2	3.3	3.4	3	26
28	1.8	2.7	2.7	2.9	2.9	3	3.1	3.1	3	28
30		2.6	2.6	2.8	2.8	2.9	2.9	3	3	30
32		2.5	2.5	2.7	2.7	2.8	2.8	2.9	3	32
34		2.3	2.4	2.5	2.6	2.7	2.7	2.8	2.9	34
36		2.2	2.2	2.4	2.5	2.6	2.6	2.7	2.8	36
38		2.1	2.1	2.3	2.3	2.5	2.5	2.6	2.7	38
40		2	2.1	2.2	2.3	2.4	2.4	2.5	2.5	40
42		2	2	2.1	2.2	2.3	2.4	2.4	2.3	42
44		1.9	2	2	2.1	2.2	2.2	2.3	2.2	44
46		1.8	1.9	2	2	2.1	2.1	2.1	1.9	46
48		1.8	1.8	1.8	1.7	1.8	1.9	1.9	1.8	48
50		1.8	1.6	1.5	1.4	1.4	1.6	1.7	1.6	50
52		1.6	1.3	1.1	1.1	1.3	1.2	1.4	1.4	52
54			1	0.8	1	1.1	0.9	1.1	1.1	54
56			0.7	0.5	1	1	0.7	0.8	0.8	56
58					0.8	0.9		0.6	0.5	58
60						0.8				60

FIXED JIB

	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	65.3	
16	2.1									16
18	2									18
20	1.9	2.4	2.5							20
22	1.8	2.3	2.3							22
24	1.6	2.2	2.2	2.4	2.4	2.4				24
26	1.6	2.1	2.2	2.3	2.3	2.3	2.4			26
28		1.9	2.1	2.1	2.2	2.2	2.3	2.2	2	28
30		1.8	1.9	2	1.9	2.2	2.2	2.1	2	30
32		1.8	1.8	1.9	1.9	2.1	2.1	2.1	2	32
34		1.7	1.8	1.8	1.8	2	1.9	2	2	34
36		1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.9	36
38		1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.9	38
40		1.6	1.7	1.6	1.7	1.8	1.8	1.8	1.8	40
42		1.6	1.6	1.6	1.7	1.7	1.8	1.8	1.8	42
44		1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.8	44
46		1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	46
48			1.6	1.6	1.6	1.7	1.7	1.7	1.7	48
50			1.6	1.6	1.6	1.6	1.7	1.7	1.7	50
52				1.3	1.3	1.4	1.5	1.7	1.6	52
54					1.1	1.2	1.2	1.4	1.3	54
56					1	1.1	0.9	1.1	1	56
58						1	0.6	0.8	0.8	58
60								0.5	0.5	60

WORKING RANGE DIAGRAM

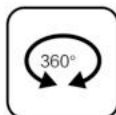
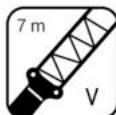
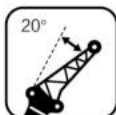


FIXED JIB

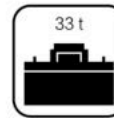
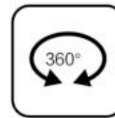
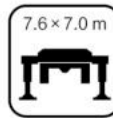
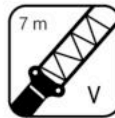
	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	
7	6.4								7
8	6.4								8
9	6.4								9
10	6.4	5.6							10
12	6.4	5.6	5.3	5					12
14	6.2	5.6	5.2	4.9	4.6	4.1			14
16	5.4	5.6	5.2	4.8	4.6	4.1	3.8		16
18	4.8	5.6	5.2	4.8	4.5	4	3.7	3.1	18
20	4.3	5.6	5.2	4.8	4.4	4	3.6	3.1	20
22	3.9	5.6	5.2	4.8	4.4	4	3.5	3.1	22
24	3.5	5.6	5.2	4.8	4.4	4	3.5	3	24
26	3.1	5.4	5.2	4.8	4.4	4	3.5	2.9	26
28	2.9	5	5.2	4.8	4.4	4	3.5	2.9	28
30	2.6	4.7	4.8	4.8	4.4	3.9	3.4	2.9	30
32	2.5	4.3	4.5	4.6	4.1	3.6	3.3	2.9	32
34	2.3	4	4.2	4.2	3.7	3.2	3	2.9	34
36		3.8	4	3.8	3.3	2.9	2.6	2.6	36
38		3.6	3.9	3.4	2.9	2.6	2.4	2.3	38
40		3.4	3.4	3.1	2.7	2.4	2.2	2.1	40
42		3.2	2.9	2.6	2.4	2.2	2	1.9	42
44		3	2.5	2.2	2.1	1.9	1.8	1.8	44
46		2.6	2.1	1.9	1.7	1.7	1.6	1.6	46
48		2.2	1.8	1.5	1.4	1.4	1.4	1.4	48
50		1.9	1.5	1.2	1.1	1.1	1.1	1.2	50
52		1.6	1.2	0.9	0.8	0.8			52
54		1.4	0.9	0.7	0.5	0.5			54
56		1.1	0.7						56
58		0.9							58

LOAD CHARTS

FIXED JIB

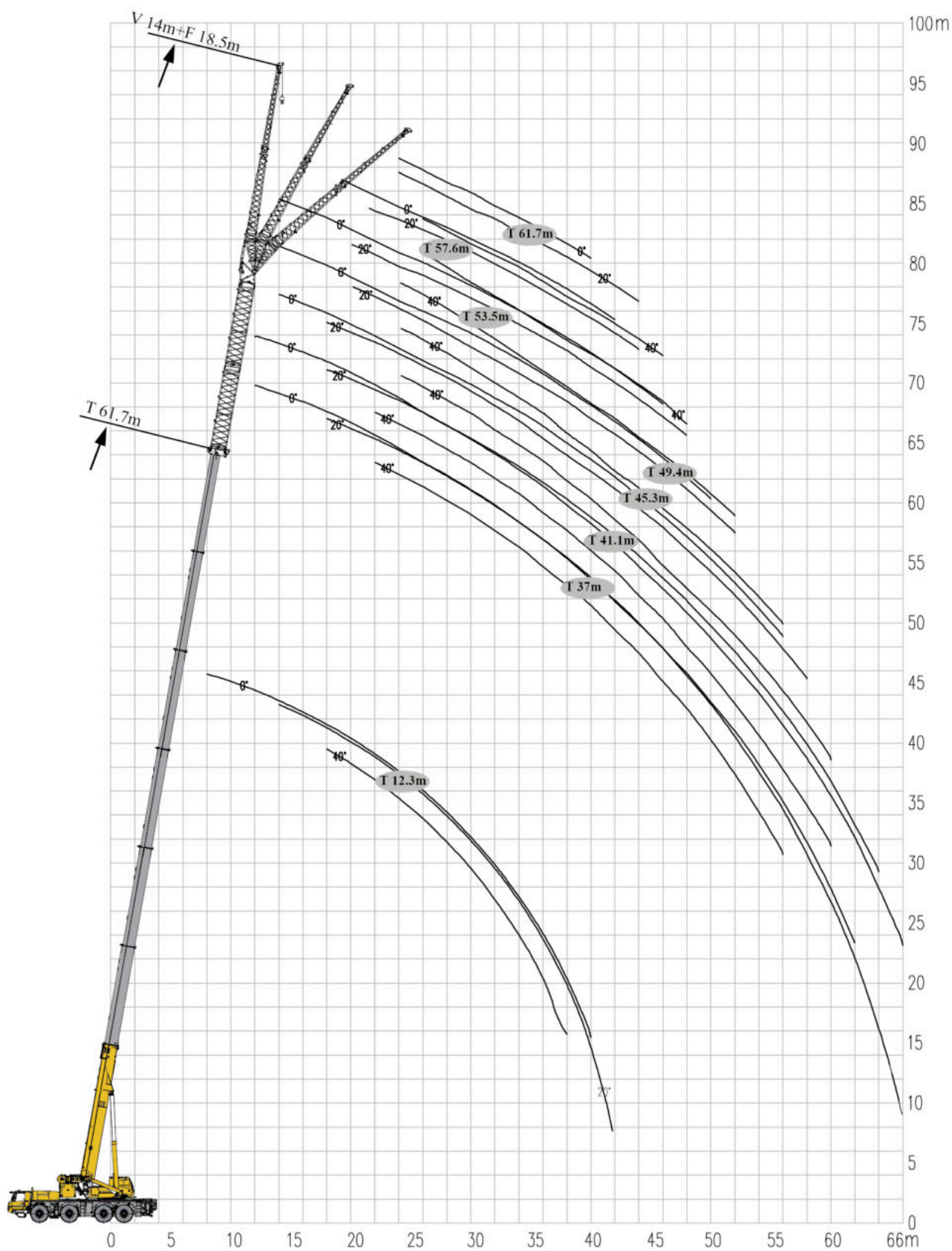


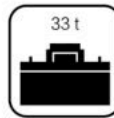
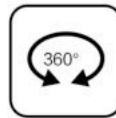
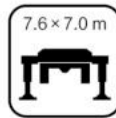
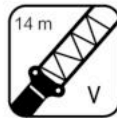
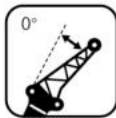
	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	
12	3.9								12
14	3.7								14
16	3.3	4.3							16
18	3	3.9	4	3.9					18
20	2.8	3.7	3.8	3.8	3.8				20
22	2.6	3.5	3.5	3.7	3.7	3.6			22
24	2.4	3.3	3.4	3.5	3.6	3.5	3.6	3.1	24
26	2.2	3	3.2	3.2	3.3	3.3	3.4	3	26
28	2	2.9	3	3.1	3.1	3.2	3.3	3	28
30	1.9	2.8	2.8	3	3	3.1	3.2	3	30
32	1.8	2.6	2.7	2.8	2.9	3	3.1	3	32
34	1.8	2.5	2.5	2.7	2.8	2.9	3	2.9	34
36		2.4	2.4	2.6	2.7	2.8	2.8	2.6	36
38		2.3	2.3	2.5	2.6	2.6	2.6	2.4	38
40		2.1	2.3	2.4	2.4	2.5	2.3	2.2	40
42		2.1	2.2	2.2	2.3	2.3	2.1	2	42
44		2	2.1	2.1	2.2	2	1.9	1.8	44
46		2	2	2.1	2.1	1.9	1.7	1.7	46
48		1.9	2	2	1.9	1.6	1.6	1.4	48
50		1.9	1.8	1.6	1.5	1.5	1.4	1.3	50
52		1.8	1.5	1.3	1.2	1.2	1.2	1.1	52
54		1.6	1.2	1	0.9	0.9	1		54
56		1.3	0.9	0.7	0.6	0.6			56
58		1	0.7						58

FIXED JIB

	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	
18	2.1								18
20	2.1	2.4							20
22	2	2.3	2.3	2.4					22
24	1.9	2.2	2.2	2.3	2.3				24
26	1.8	2.1	2.1	2.1	2.2	2.4			26
28	1.8	2.1	2.1	2.1	2.1	2.2	2.3		28
30	1.7	2	2	2	2.1	2.1	2.2	2.3	30
32	1.6	1.9	1.9	2	1.9	1.9	2	2	32
34		1.8	1.8	1.9	1.9	1.9	1.9	1.9	34
36		1.8	1.8	1.8	1.9	1.9	1.9	1.9	36
38		1.7	1.8	1.8	1.8	1.8	1.9	1.9	38
40		1.7	1.6	1.8	1.8	1.8	1.8	1.8	40
42		1.7	1.6	1.7	1.8	1.8	1.8	1.8	42
44		1.6	1.6	1.7	1.6	1.8	1.8	1.8	44
46		1.6	1.6	1.7	1.6	1.7	1.8	1.8	46
48		1.6	1.6	1.6	1.6	1.7	1.7	1.6	48
50		1.6	1.6	1.6	1.6	1.7	1.5	1.5	50
52		1.6	1.6	1.5	1.5	1.5	1.4	1.4	52
54			1.3	1.2	1.1	1.2	1.3	1.2	54
56				0.9	0.8	0.9	1	1	56
58				0.6	0.5	0.6	0.7	0.8	58

WORKING RANGE DIAGRAM

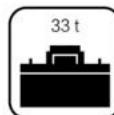
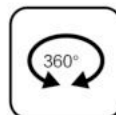
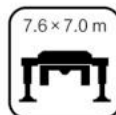
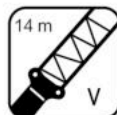
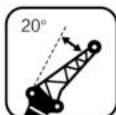


FIXED JIB

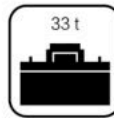
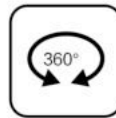
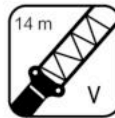
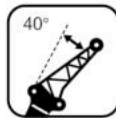
	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	
8	5.3								8
9	5.3								9
10	5.3								10
12	5.3								12
14	5.3	4.9	4.6						14
16	5.3	4.9	4.5	4.1	3.7				16
18	5.3	4.9	4.5	4.1	3.7	3.4	3.1		18
20	5.2	4.9	4.5	4.1	3.7	3.4	3.1	2	20
22	4.6	4.9	4.5	4.1	3.7	3.4	3	1.9	22
24	4.1	4.9	4.5	4.1	3.7	3.3	2.9	1.9	24
26	3.8	4.9	4.5	4.1	3.7	3.3	2.9	1.9	26
28	3.4	4.9	4.3	4.1	3.7	3.3	2.9	1.9	28
30	3.2	4.9	4	4	3.7	3.3	2.9	1.9	30
32	3	4.7	3.8	3.8	3.6	3.1	2.8	1.9	32
34	2.8	4.4	3.6	3.6	3.2	2.7	2.5	1.9	34
36	2.7	4.2	3.3	3.2	2.8	2.5	2.2	1.9	36
38	2.5	3.8	3.2	3	2.5	2.2	2	1.8	38
40	2.3	3.3	3	2.6	2.2	2	1.7	1.6	40
42		2.7	2.8	2.3	1.9	1.7	1.5		42
44		2.5	2.5	2.2	1.8	1.4			44
46		2.4	2.1	1.9	1.5	1.2			46
48		2.3	1.8	1.5	1.3				48
50		1.9	1.5	1.2	1.1				50
52		1.6	1.2	0.9					52
54		1.4	0.9	0.7					54
56		1.1	0.7						56
58		0.9							58
60		0.7							60
62		0.5							62

LOAD CHARTS

FIXED JIB



	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	
14	3.7								14
16	3.5								16
18	3.2	3.8							18
20	3	3.8	3.9						20
22	2.8	3.6	3.7	3.7	4				22
24	2.6	3.4	3.5	3.6	3.8				24
26	2.4	3.3	3.3	3.5	3.6	3.6	3	2	26
28	2.3	3.1	3.1	3.3	3.3	3.5	3	2	28
30	2.2	2.9	3	3.2	3.2	3.3	3	2	30
32	2.1	2.8	2.9	3	3.1	3.2	2.9	2	32
34	1.9	2.7	2.7	2.8	3	2.8	2.6	2	34
36	1.9	2.6	2.6	2.7	2.9	2.6	2.3	2	36
38	1.8	2.5	2.5	2.6	2.7	2.3	2.1	1.9	38
40	1.8	2.3	2.4	2.5	2.4	2.1	1.9	1.8	40
42	1.8	2.3	2.4	2.5	2.2	2	1.7	1.5	42
44		2.2	2.3	2.3	2	1.7	1.5	1.4	44
46		2.2	2.1	2	1.8	1.5	1.3		46
48		2.1	2.1	1.8	1.5	1.3			48
50		2	1.9	1.6	1.3				50
52		1.8	1.6	1.3	1.1				52
54		1.7	1.3	1					54
56		1.4	1	0.8					56
58		1.1	0.7	0.5					58
60		0.9	0.5						60
62		0.6							62

FIXED JIB

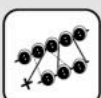
	12.3	37	41.1	45.3	49.4	53.5	57.6	61.7	
18	2.1								18
20	2								20
22	1.9	2.1							22
24	1.8	2.1	2.1						24
26	1.7	2.1	2.1	2.1	2.2				26
28	1.7	2	2	2	2.1	2.1			28
30	1.6	1.9	1.9	1.9	2	2	2.3		30
32	1.6	1.8	1.9	1.9	1.9	1.9	2.1		32
34	1.6	1.8	1.8	1.8	1.9	1.9	2	2	34
36	1.6	1.7	1.8	1.8	1.9	1.8	1.9	2	36
38	1.6	1.7	1.7	1.8	1.9	1.8	1.9	1.9	38
40		1.7	1.7	1.7	1.8	1.8	1.8	1.8	40
42		1.6	1.7	1.7	1.7	1.8	1.7	1.7	42
44		1.6	1.7	1.7	1.7	1.8	1.6	1.4	44
46		1.6	1.6	1.7	1.7	1.6	1.5	1.3	46
48		1.6	1.6	1.6	1.6	1.4	1.2		48
50		1.6	1.6	1.6	1.4	1.3	1		50
52		1.6	1.6	1.6	1.3	1.1			52
54		1.6	1.4	1.2	1.1				54
56		1.4	1.1	0.9	0.9				56
58			0.8	0.7					58
60			0.6						60

TABLE OF MAIN TECHNICAL PARAMETERS

CATEGORY	ITEM		UNIT	PARAMETER
Dimensions	Dimensions (L×W×H)		mm	14327×2750×3940
	Axle spacing		mm	2500+2850+1700
	Track (front/rear)		mm	2296
	Front/rear overhang		mm	2522/2740
	Front/rear extension		mm	1889/126
Weights	Maximum permissible total weight		kg	48000
	Axle load	Axle 1	kg	12000
		Axle 2	kg	12000
		Axle 3	kg	12000
		Axle 4	kg	12000
Power	Engine model		—	OM471LA.E5-2
	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
	Minimum turning diameter		m	≤17 (tight-turning radius steering) ≤21 (road steering)
	Minimum turning diameter at boom head		m	≤21.3 (tight-turning radius steering) ≤25.3 (road steering)
	Minimum ground clearance		mm	385
	Approach angle		°	20
	Departure angle		°	12
	Braking distance (initial speed at 30 km/h)		m	≤10
	Maximum grade ability		%	60
	Fuel consumption per 100 km		L	50
Noise	Exterior noise level when accelerating		dB(A)	≤83

CATEGORY	ITEM			UNIT	PARAMETER
Main performance	Maximum rated total lifting capacity			t	120
	Minimum rated working radius			m	2.5
	Slewing radius at turntable tail	At counterweight		mm	4300
		At auxiliary winch		mm	4480
	Maximum load moment	Base boom section		kN.m	3293
		Fully-extended boom		kN.m	1680
		Fully-extended boom + jib		kN.m	1230
	Outrigger span	Longitudinal		m	7.6
		Lateral		m	7.0/5.95/5.0/3.83
	Lifting height	Base boom section		m	13.4
		Fully-extended boom		m	64.3
		Fully-extended boom + jib		m	94
	Boom length	Base boom section		m	12.3
		Fully-extended boom		m	66
		Fully-extended boom + jib		m	94.2
	Jib offset angle			°	0, 20, 40
Working speeds	Time for raising boom			s	≤60
	Time for fully extending boom			s	≤800
	Maximum slewing speed			r/min	≥1.45
	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	≥135
Auxiliary winch system		m/min	≥135		
Noise	Exterior noise level			dB(A)	≤105
	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

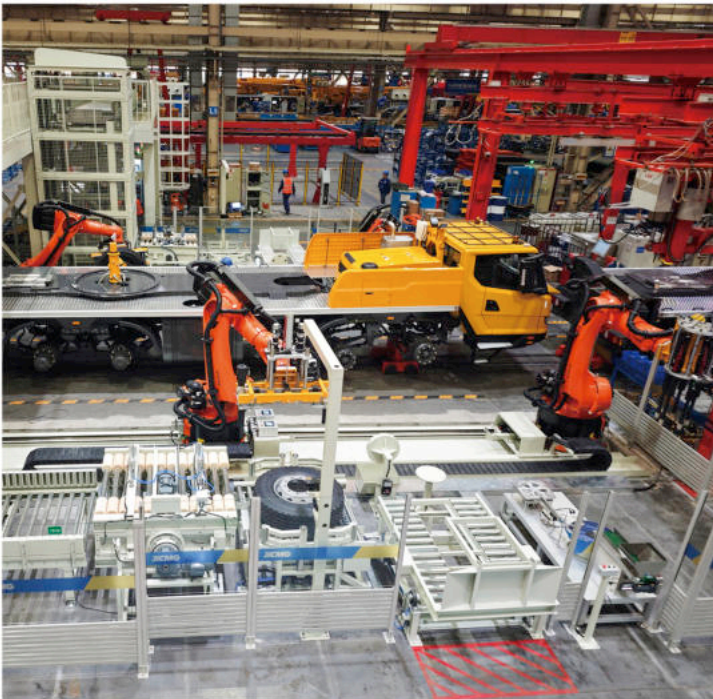
	Maximum lifting height
	Maximum working radius
	Super lift
	Wind power jib
	Telescoping
	Slewing
	360° slewing
	360° slewing with the 5th jack down
	Side and rear operation
	Operation over front
	Operation over rear

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



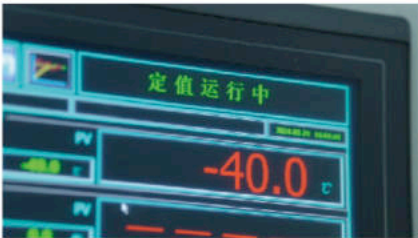
SPRAYING PROCESS OF ROBOTS



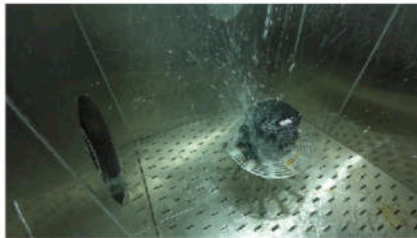
DIGITIZED STRUCTURE WORKSHOP

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

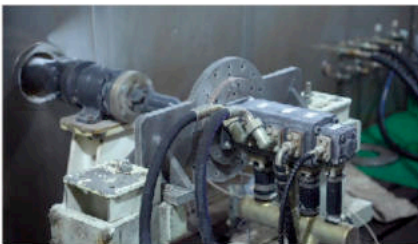
HMI display
Low-temperature performance test under -40 °C



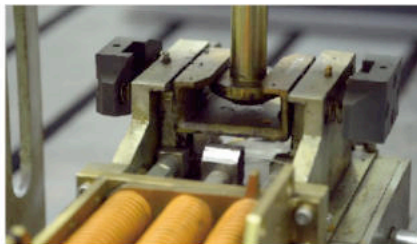
Length measurement sensor
48-hour rain-proof test



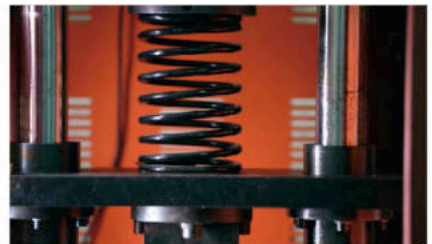
Panel buttons
1.2 million times reliability test



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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