XCMG

TRUCK CRANE

XCT160_Y1

DUAL-POWERED IRON BOOM

160 t | 88 m | 74 m | 116 m

V.1_2025

XCMG

COMPANY PROFILE

XCMG's Hoisting machinery division is the leader in China's lifting industry focusing on the research, development and the production of mobile cranes. At XCMG's core is a commitment to technological innovation while utilizing the latest digital technologies to push the boundaries of product development and production while following our principles of social responsibility, building a sustainable and better future, and to create value for our customers.

PRODUCT RANGE

XCMG's Hoisting machinery division boasts a complete product range. Our cranes are sold and serviced in more than 190 countries and regions worldwide, with export shares consistently leading the market.

WHEELED CRANE

- 5 t-220 t Truck Crane
- 40 t-4000 t All Terrain Crane
- 25 t-150 t Rough Terrain Crane

CRAWLER CRANE

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

A 5-axle, 160-tonne truck crane with a wide range of applicable operation modes and economical operation

It is widely used for the infrastructure constructions in high-speed railway project, urban overpass construction, assembly and disassembly of tower crane, etc., as well as the lifting and installation operations in the other complex working environments, such as oilfields and chemical industry.

Extra long boom and jib, excellent performance

Eight-section U-shaped 88 m boom, equipped with a 34.5 m jib, achieves a maximum length of 116.6 m, covering a wide range of operation modes.

Precise control, efficient operation

Automatic dual pump control technology ensures strong maneuverability and fine control. The minimum stable lifting speed of boom is 2.5 m/min, whilst the minimum stable slewing speed is 0.1 °/s, which is suitable for precise lifting with high efficiency.

Dual-engine configuration, powerful performance

The superstructure features an independent engine system, providing greater power for heavy loads. This setup enhances lifting efficiency while reducing fuel consumption by 30%.

Convenient jobsite transfer, cost-effective operation

For short-distance jobsite transfer, it can carry 24 t counterweight, meeting the demands of 50% of operation modes and reducing transportation costs.

Craftsmanship manufacturing, reliable and durable

Ergonomic design details and high-end intelligent manufacturing process ensure high reliability and superior quality.

CONTENTS

EXTRA LONG BOOM AND JIB, EXCELLENT PERFORMANCE

HIGH REACH, LONG RANGE, AND EXTENSIVE COVERAGE

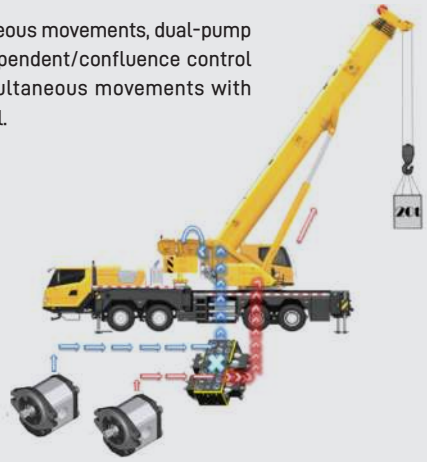
- It features an eight-section U-shaped 88 m boom with a maximum lifting capacity of 160 t. When equipped with a 34.5 m jib, the maximum length reaches 116.6 m. It is widely applicable to infrastructure constructions in high-speed railway project, urban overpass construction, assembly and disassembly of tower crane, etc, as well as the lifting and installation operations in the other complex working environments, such as oilfields and chemical industry.
- Innovative single-plate boom head and compact boom tail structure, best overlapping ratio in its class and stronger boom load-bearing capacity.

NEW ENERGY-SAVING HYDRAULIC SYSTEM

- Dual-pump independent and confluent control technology offers accurate speed control of the four actions: winch, slewing, luffing and telescoping.

During high speed operation or when performing independent operations such as lifting, luffing and extending, the two pumps work together to supply oil with high efficiency.

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



During operations for accurate control, it is switched to a single pump for hydraulic oil supply, contributing to industry-leading inching control and smoothness of lifting operations.

- The slewing inertia is precisely controlled, ensuring smooth starts and stops. Even with medium-to-long boom and heavy loads, the crane maintains precise maneuverability and accuracy. The normally closed slewing brake control system ensures safe and reliable braking without self-rotation. The minimum stable slewing speed is 0.1°/s. 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 high torque, which can fully meet the user's precise lifting operation needs.

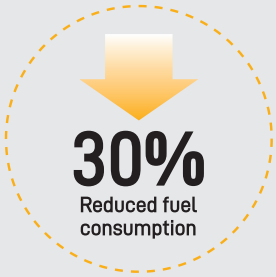
The minimum stable slewing speed is 0.1° /s

The minimum stable hoisting speed (at drum) **2.5m/min**

DUAL-ENGINE CONFIGURATION, POWERFUL PERFORMANCE

DUAL-ENGINE POWER, GREATER EFFICIENCY

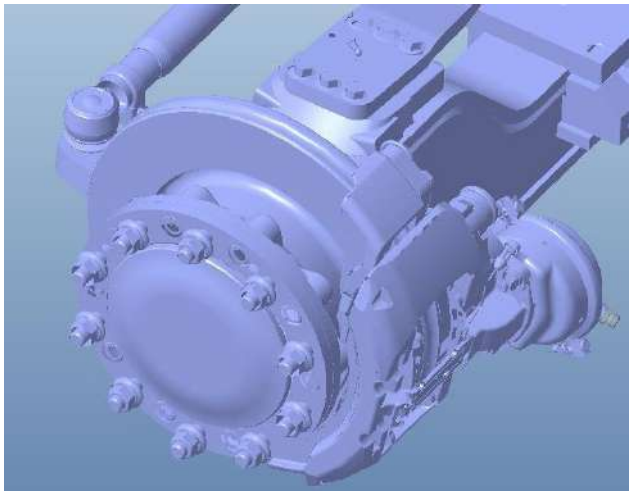
- The superstructure is equipped with a 221 kW Weichai engine, providing power during lifting operations. This powerful engine ensures stable performance under heavy loads, preventing stalling and enabling more direct and efficient load control, and reducing fuel consumption.
- Compliant with China IV off-road emission standard, it reduces the need for frequent injector replacements. Fuel consumption is reduced by 30%, significantly lowering operating costs for users.



FOR SHORT-DISTANCE JOBSITE TRANSFERS, IT CAN CARRY 24 T COUNTERWEIGHT, MEETING THE DEMANDS OF OVER 50% OF OPERATION MODES AND REDUCING TRANSPORTATION COSTS.

- For short-distance, low-speed jobsite transfers, it can carry the entire boom, 75 t hook block, jib and its bracket, auxiliary sheave, 24 t counterweight, spare tire and its bracket, reducing the user's trailer transportation costs.

- The chassis is equipped with a 289 kW Weichai low-speed, high-torque engine paired with a large-ratio 10-gear transmission, delivering strong driving performance, high load-bearing capacity, and excellent stability.



- Front axles are equipped with caliper disc brake which has high braking stability, fast reaction, 20-30% improved thermal brake fade resistance, and longer service life, making service brake safer during traveling.

CRAFTSMANSHIP MANUFACTURING, RELIABLE AND DURABLE

DRIVER'S CAB & OPERATOR'S CAB

Ergonomic analysis and personalized consideration of details integrated, a quality product is created that is convenient to maintain, easy to drive and comfortable to operate.

①	Mechanically shock-absorbing driver's seat	Leather + breathable mesh fabric seat material.
②	HVAC	It has face and foot blowing, defrosting and defogging functions, improving cooling and heating efficiency.
③	Other humanized configuration	Electric wipers and electric window lifters.

OPERATOR'S CAB

①	Adjustable electric heated seat	Leather + breathable mesh fabric seat material.
②	Monitoring device	Monitors the lifting situation, ensuring safer operations.
③	Silicone buttons	Three control areas for safety protection, lifting operation and operating environment make control easier and more convenient.
④	T3 air conditioning	Provides fast cooling performance.
⑤	20° tiltable	Enhances the lifting field of view.
⑥	Other humanized configuration	Sun screens for cab windows whilst dual-layer sun screen for the roof window. Sliding door, adaptable to narrow spaces.

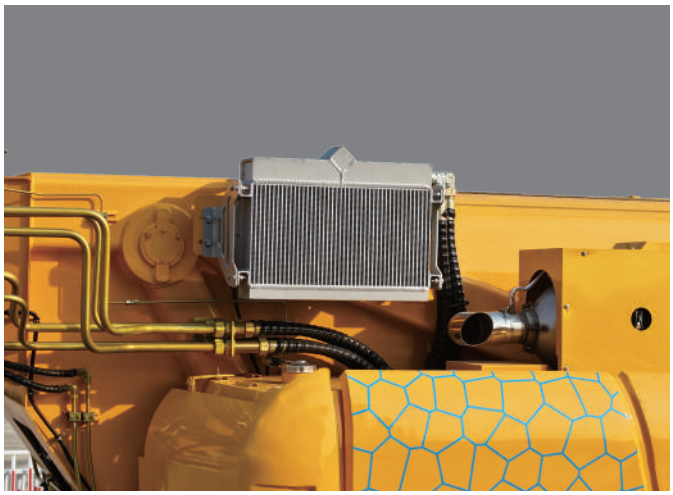
CRAFTSMANSHIP MANUFACTURING, RELIABLE AND DURABLE

USER-FRIENDLY DESIGN FOR CONVENIENT USE

- Well-planned accesses are convenient to go up/down. Aluminum alloy checkered deck offers better anti-skid performance.

XCMG QUALITY, RELIABLE AND WORRY-FREE TO USE

- With high-end intelligent manufacturing process, high processing precision, quality products, and economical spare parts are ensured, whilst maintenance costs for the full cycle are lowered.



EXCELLENT HEAT DISSIPATION FOR HIGH-TEMPERATURE OPERATIONS

- 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.

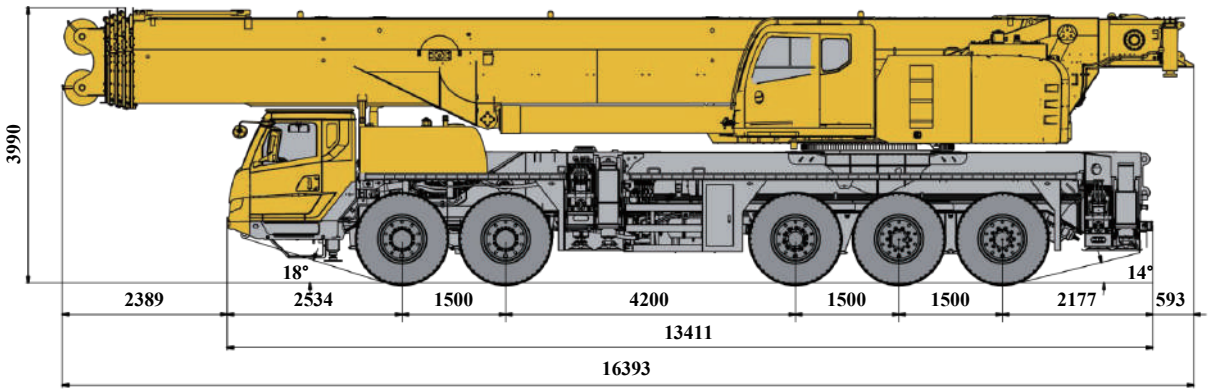
ALUMINUM ALLOY FUEL TANK

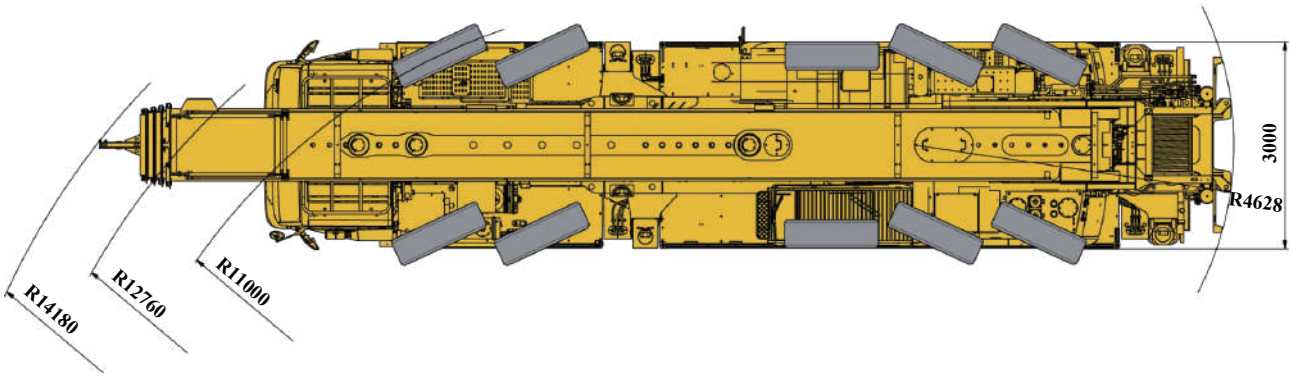
- Features a super-large capacity aluminum alloy fuel tank with 470 L on chassis and 330 L on superstructure, it is resistant to corrosion and aging, enhancing long-term durability.

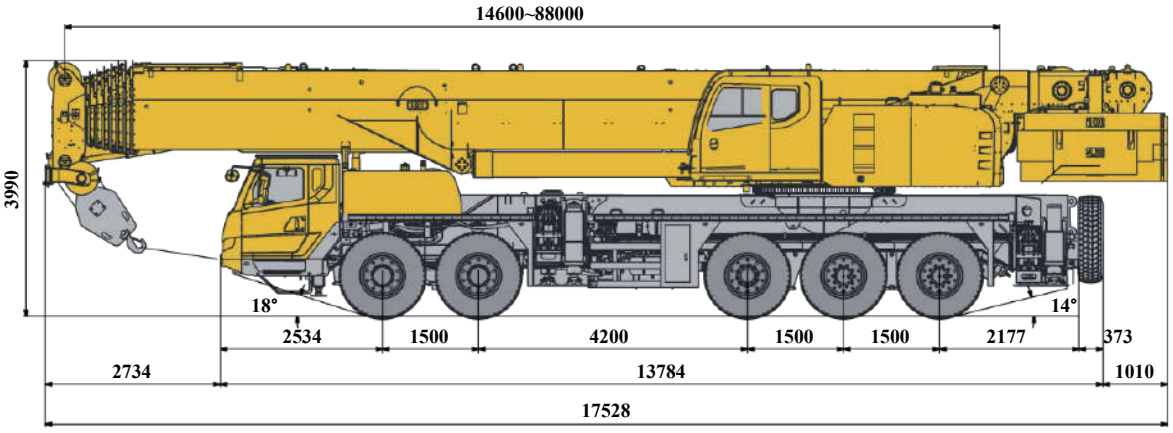
WATER-PROOF, HEAT-PROOF PIPELINES

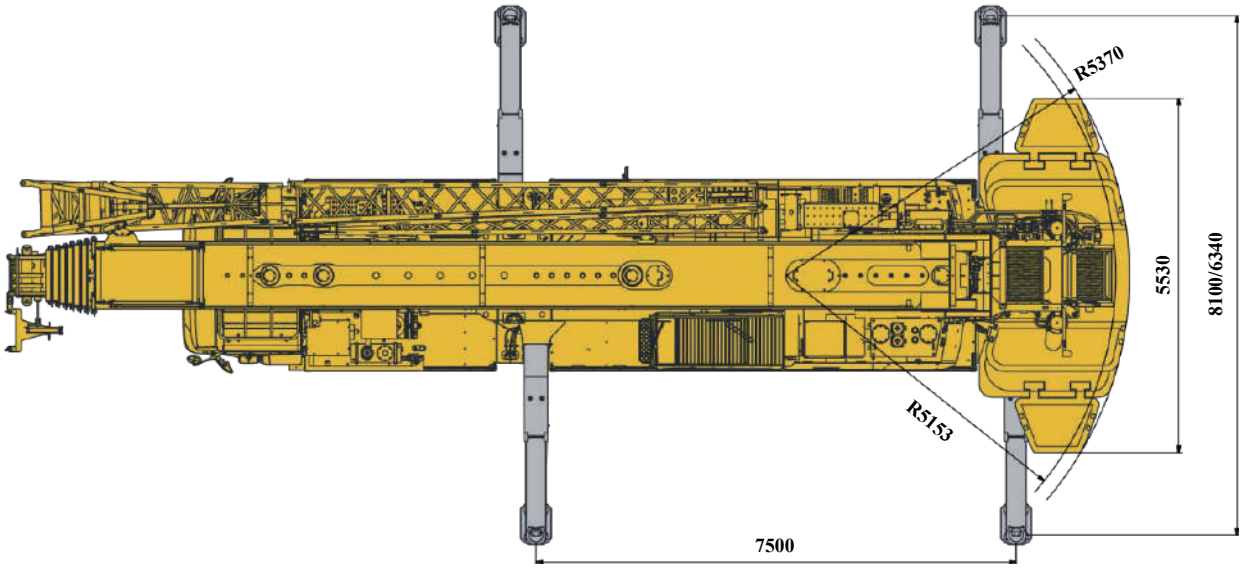
- It adopts open-clamp harnesses, branch protection, and connectors with clamps. The corrugated tube is resistant to temperatures up to 150°C.

DIMENSIONS


3990
18°
14°
2389
2534
1500
4200
1500
1500
2177
593
13411
16393


3000
R4628
R14180
R12760
R11000


14600~88000
3990
18°
14°
2534
1500
4200
1500
1500
2177
373
2734
13784
1010
17528


R5370
5530
8100/6340
R5153
7500

TECHNICAL SPECIFICATIONS

CHASSIS	
Vehicle frame	Designed and manufactured by XCMG, the frame is made of high strength steel with fully covered walking surface and anti-torsion box-typed structure.
Outriggers	Four outriggers arranged in H-shape are hydraulically controlled by control levers. Double-stage outrigger beams are adopted. There are outrigger control levers located at each side of the chassis, and there is a level gauge, illuminator and speed buttons in each control panel. There is a check valve fitted in each outrigger cylinder, and a double-way hydraulic lock fitted in each jack cylinder. Outrigger float dimension: 480 mm × 615 mm; Reaction force of outrigger at maximum lifting load: front outrigger: 922 kN; rear outrigger: 986 kN.
Engine	Weichai WP10HG400E670, in-line, six-cylinder, water cooled, electric control diesel engine; Maximum rated power: 294 kW / 1900 rpm; Maximum torque 1900 Nm / 1200 rpm ~ 1300 rpm; BSV emission standard; Fuel tank capacity: 470 L; AdBlue/DEF tank capacity: 34.3 L; Engine total displacement: 9.5 L.
Hydraulic system	The gear pump is connected to the transmission PTO port by drive shaft, for control of outriggers. Hydraulic oil tank capacity: 130 L.
Transmission	FAST 10JSD180TB mechanical manual transmission, 10 forward gears and 2 reversing gears, with synchronizer.
Axle	High-strength axles, whose 1st, 2nd, 4th and 5th axles are for steering whilst 3rd, 4th and 5th axles are drive axles. Drive/steering type: 10×6×8.
Suspension	Leaf springs are adopted for front suspensions; double trailing arm type suspensions are adopted for rear suspensions.
Tire	10 tires, 1 spare tire. Tire specifications: 385/95R25.
Braking system	Service brake: dual-circuit air pressure brake, acting on all wheels. Parking brake: spring-loaded brake, acting on wheels of axles 2~5. Auxiliary brake: Engine in-cylinder retarder brake.
Steering	Axles 1, 2, 4 and 5 are for steering; Axles 1 and 2 are mechanically steered + hydraulic booster; Axles 4 and 5 are steered through cylinder control. Various steering modes are achieved to meet the requirements of different operation modes.
Driver's cab	Wide-bodied cab with compound structure, excellent tightness and luxurious and comfortable interior trim parts. It features outstanding leak-proof, anti-corrosion and shock-proof performance. It is equipped with wide-view windshield, rear-view mirror, electric wiper-washer, electric window glass lifter, air heater with defrosting function, HVAC, audio system, new material mat, 3 kg fire extinguisher, among others. A mechanical shock absorber seat is supplied for driver and a simple sleeper for co-driver.
Electrical system	24 V DC, two sets of 12 V battery in series. Generator: 28 V - 80 A.

	SUPERSTRUCTURE
Structure	Designed and manufactured by XCMG, made of high strength steel.
Hydraulic system	Electric proportional variable pump is used for lifting, luffing and telescoping; Slewing is driven by closed pump; Proportional solenoid directional control valve is adopted; And air-cooled hydraulic oil cooler is equipped. Hydraulic oil tank capacity: 850 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 slewing 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. The main winch and auxiliary winch can be independently operated.
Engine	Weichai WP7G300E473, in-line, six-cylinder, water cooled, electric control diesel engine; Rated power: 221 kW / 2200 rpm; Maximum torque: 1200 Nm / 1400 rpm ~ 1600 rpm; Compliant with off-road China Stage IV emission standard. Fuel tank capacity: 330 L; AdBlue/DEF tank capacity: 35 L; Engine total displacement: 7.47 L.
Slewing system	A single-row, four-point contact-ball external 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 luffing cylinder and the luffing counterbalance valve with the load compensation function. Counterbalance valve-controlled boom gravity combined with power for lowering boom is used for boom luffing down.
Operator's cab	Operator's cab made of steel, can be tilted up or down by 20°, with sliding door, and roof protective grilles. Equipped with full-view windshield, wiper, sun screens for front & rear windows, double-layer sun screen for the roof window, adjustable seat with electric heating function, human-machine interaction system control panel, electric armrest, engine acceleration pedal, engine starter switch, air conditioning, 2 kg fire extinguisher, among others.
Safety devices	Hydraulic counterbalance valve; hydraulic relief valve; load moment indicator; lowering limiter; anti-two block; anemometer; winch monitoring device.
Load moment indicator (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	Standard: 48 t.
Hook block	Standard: 75 t hook block, 8 t hook block.
Boom	8-section boom with U-shaped cross-section, welded structure with single-plate boom head and compact boom tail. Single-cylinder pinning telescoping system. Boom length: 14.6 m ~ 88 m.
Jib	The jib consists of a connecting bracket, an offsetting bracket and two lattice sections. Three offset angles of 0°, 15° and 30° are available. It is stowed along the side of the boom. Jib length: 11 m and 18.5 m.

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

CONFIGURATION AND OPTIONAL EQUIPMENT

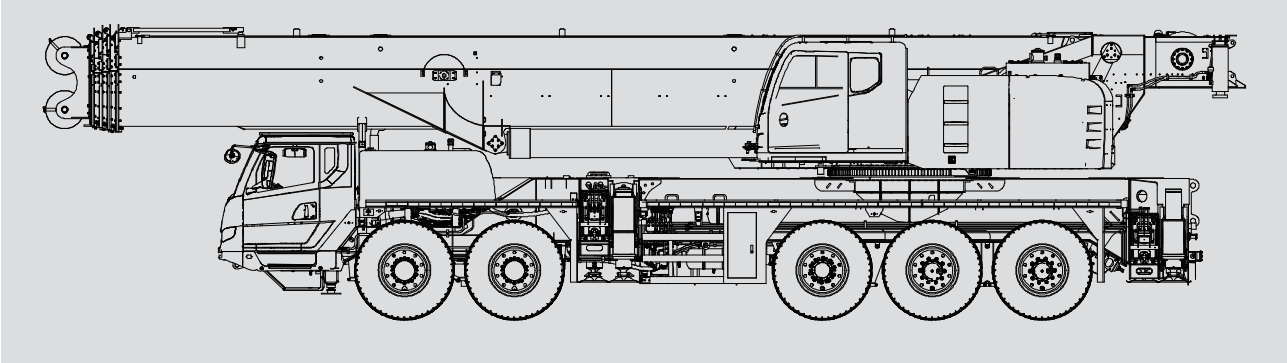
	FUNCTION DESCRIPTION
Standard	8-section boom of 88 m, fixed jib of 18.5 m.

Note: only standard configuration is available for this model.

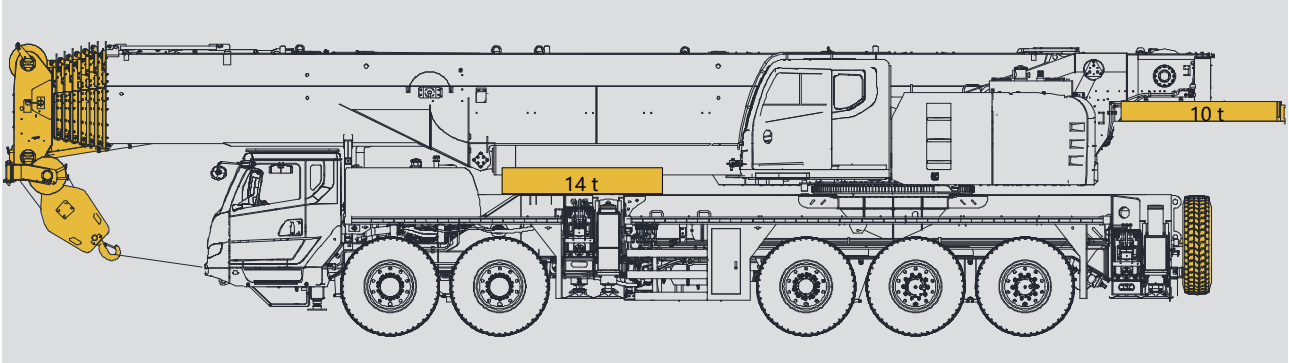
OPTIONAL EQUIPMENT	FUNCTION DESCRIPTION
Wireless remote control for counterweight	CANBus communication makes operation more convenient, without being limited by distance; and hand-held size offers more convenient operation.
Counterweight	Counterweight ⑤ , Counterweight ⑥ × 2.
Auxiliary winch system	Hydraulic 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.
Auxiliary sheave	Installed at the boom top, used for single line operation. Its lifting performance is the same as that for boom, but the maximum lifting load could not exceed 8 t.
Independent jib head	Lattice welded structure, attached to boom head. Length of independent jib head: 2.9 m
Boom extension	Two-section lattice welded structure, attached to boom head. Boom extension length: 2× 8 m.
Hook block	130 t hook block.
ABS	
Boom transporting bracket	
Standard backup camera	

AXLE	1	2	3	4	5	TOTAL WEIGHT
t	9.45	9.45	12	12	12	54.9[1)]
t	16.3	16.3	18.8	18.8	18.9	89[2)]

1) 54.9 t Road travel configuration:
Superstructure: Without 5th - 8th boom sections, counterweight, auxiliary sheave, hook block, jib & its bracket, auxiliary winch & its wire rope.
Chassis: Without spare tire & bracket.
Maximum travel speed: 48 km/h; Overall dimensions: 16393×3000×3990 mm.



2) 89 t Heavy-load jobsite transfer configuration (addition based on road travel configuration):
Superstructure: With 5th - 8th boom sections, 75 t hook block, jib & bracket, auxiliary sheave and 24 t counterweight.
Chassis: With spare tire & its bracket.
Maximum travel speed: 20 km/h; Overall dimensions: 17528×3000×3990 mm.

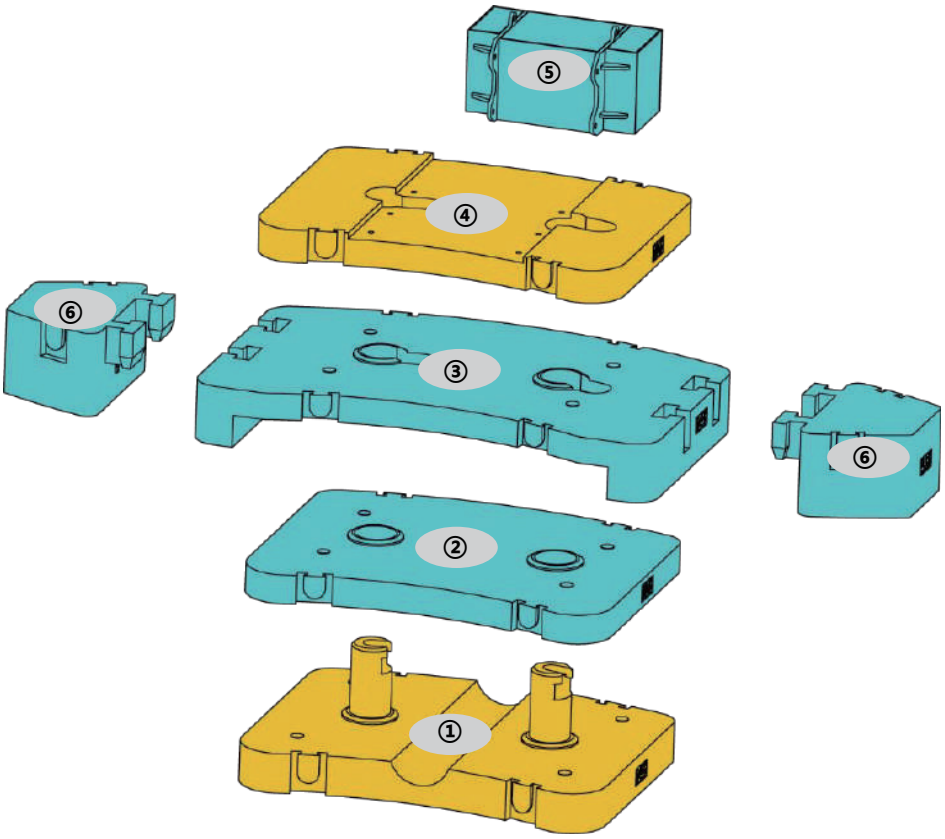


HOOK BLOCK	PARTS OF LINE	HOOK BLOCK WEIGHT (kg)	HOOK BLOCK DIMENSION (mm)	NOTES
130 t	12	1017	1785×730×560	Dual-hook
75 t	7	801	1751×599×598	Dual-hook
8 t	1	370	782×475×475	Single hook

WORKING SPEED

385/95R25	2~48km/h	45%

	Max	F	Φ	
1	0-135 m/min, single line, no load	114 kN	22 mm	300 m
2	0-90 m/min, single line, no load	89 kN	22 mm	240 m
	0-1.5 r/min			
	Approx. 65 s for boom luffing up from -1° to 82°			
	Approx. 900 s for boom extending from 14.6m to 88m			



	①	②	③	④	⑤	⑥
Dimensions (L×W×H) (mm)	2995×2299×927	2995×2299×272	3800×2350×517	2995×2246×270	1392×866×765	1100×1307×682
Weight (t)	14	10	14	10	3	4.5×2

OPERATION MODE	60 t	57 t	51 t	48 t	41 t	37t/(38t)	34 t
Combinations	① + ② + ③ + ④ + ⑤ + ⑥ ×2	① + ② + ③ + ④ + ⑥ ×2	① + ② + ③ + ④ + ⑤	① + ② + ③ + ④	① + ② + ③ + ⑤	① + ② + ④ + ⑤ / (① + ② + ③)	① + ② + ④

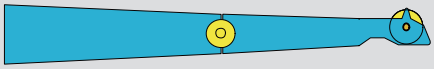
OPERATION MODE	27 t	24 t	17 t	13t/(14t)	10 t	3 t	0 t
Combinations	① + ② + ⑤ / ① + ④ + ⑤	① + ② / ① + ④	① + ⑤	④ + ⑤ / (①)	④	⑤	——

Note: When choosing the 38 t counterweight combination, use the capacity of 37 t counterweight combination; When choosing the 14 t counterweight combination, use the capacity of 13 t counterweight combination. 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

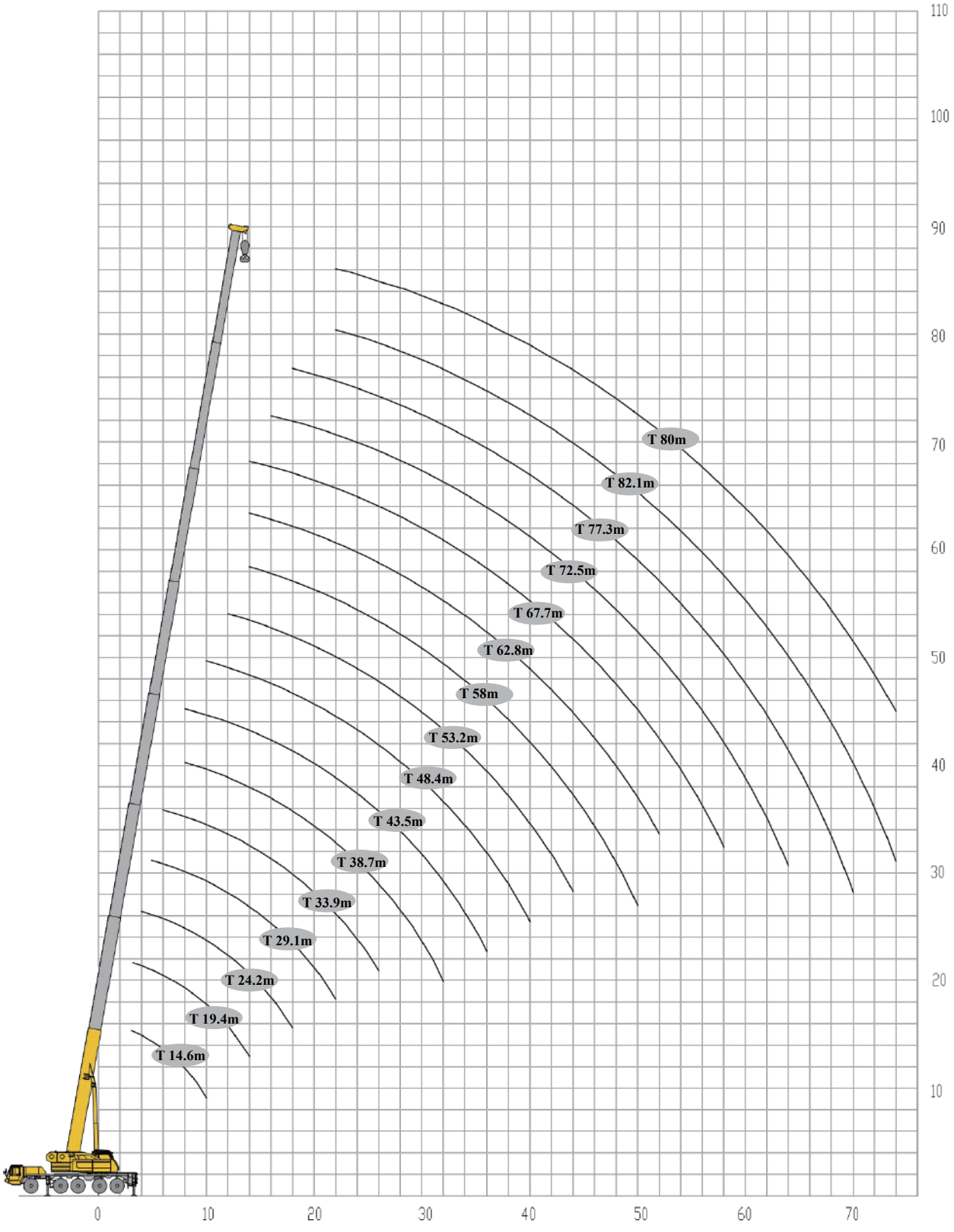
BOOM	FIXED JIB	BOOM EXTENSION	INDEPENDENT JIB HEAD
T: 14.6~88 m	T: 72.5~82.1 m F: 11/18.5 m	T: 72.5~82.1 m V: 8/16 m F: 11/18.5 m	T: 88 m I: 2.9 m

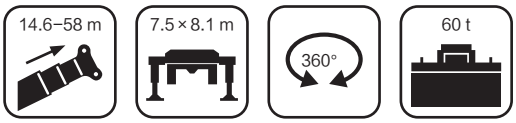
FIXED JIB

Fixed jib - 11 m	
Fixed jib - 18.5 m	
Boom extension - 26.5 m	
Boom extension - 34.5 m	

COMPONENTS	STRUCTURE	LENGTH (M)
Boom extension		8
1st jib section		11
2nd jib section		7.5

WORKING RANGE DIAGRAM

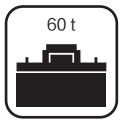




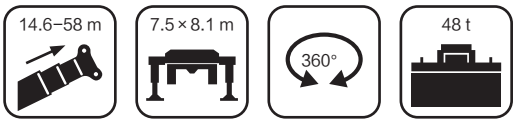
	14.6	19.4	24.2	29.1	33.9	38.7	43.5	48.4	53.2	58	
3	160*	110.0									3
3.5	115	105.0	92.0								3.5
4	105	100.0	86.0	83.0							4
4.5	100	95.0	82.0	81.0							4.5
5	92	90.0	78.0	78.0	72.0						5
6	81.5	80.0	72.0	72.0	68.0						6
7	72	71.0	65.0	65.0	64.0	62.0					7
8	62	63.0	62.0	62.0	59.0	58.0	50.0				8
9	55.5	56.0	56.5	55.5	54.0	55.0	48.0	42			9
10	49.5	52.0	52.0	51.5	52.0	52.0	45.0	40.5	35.0		10
12		44.0	44.0	44.0	43.5	44.0	42.0	38	33.0	27.0	12
14		36.0	36.0	36.0	36.0	37.0	35.5	34	30.0	25.2	14
16			31.0	31.5	31.5	31.0	31.0	30.5	27.5	23.3	16
18			26.5	27.0	27.5	26.5	27.4	26.8	24.0	21.4	18
20				23.5	23.8	24.2	24.0	23	22.0	19.0	20
22				20.5	21.0	21.0	21.0	20.5	19.0	17.5	22
24					18.7	19.0	18.5	18.5	17.0	15.9	24
26					16.5	17.0	16.8	16.3	15.2	14.5	26
28						14.2	15.0	15	13.6	13.0	28
30						12.6	13.2	13.2	12.7	12.1	30
32							12.3	12	11.2	11.2	32
34							11.0	10.5	9.8	9.9	34
36								9.55	9.0	8.8	36
38								8.55	8.1	8.2	38
40									7.2	7.3	40
42									6.3	6.3	42
44										5.7	44
46										5.3	46
48										4.7	48

Note: * Capacity clas

LOAD CHARTS



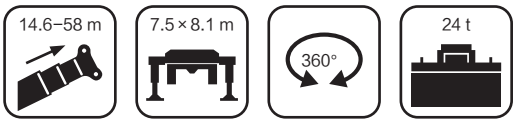
	62.8	67.7	72.5	77.3	82.1	83.8	86.3	88	
14	20.5	16.3							14
16	20	16.0	12.5						16
18	19	15.8	12.3	10					18
20	17.2	15.5	12.0	9.8	8.0				20
22	16	14.7	11.8	9.5	7.9	7.2	6.2	6.0	22
24	14.8	13.9	11.4	9.3	7.8	7.1	6.1	5.9	24
26	13.6	12.8	10.8	9.1	7.6	7.0	6.0	5.8	26
28	12.5	11.8	10.3	8.8	7.5	6.7	5.9	5.7	28
30	11.2	10.8	9.5	8.6	7.3	6.4	5.8	5.6	30
32	10.7	9.9	8.8	7.9	7.1	6.2	5.6	5.5	32
34	9.5	9.3	8.2	7.4	6.7	5.8	5.4	5.4	34
36	8.4	8.6	7.6	6.9	6.4	5.4	5.1	5.3	36
38	8	7.8	7.1	6.5	6	5.1	4.7	5.2	38
40	7.2	7.2	6.6	6.1	5.6	4.7	4.5	5.0	40
42	6.4	6.6	6.2	5.7	5.2	4.4	4.1	4.6	42
44	5.7	6.0	5.6	5.3	5	4.1	3.7	4.4	44
46	5.4	5.3	5.4	5	4.6	3.8	3.4	4.1	46
48	5	4.8	5.1	4.7	4.4	3.5	3.2	3.8	48
50	4.6	4.5	4.6	4.5	4.1	3.2	3.0	3.6	50
52	4.2	4.3	4.2	4.3	3.9	3.0	2.8	3.4	52
54		4.2	3.7	4	3.7	2.8	2.5	3.1	54
56		3.9	3.5	3.5	3.4	2.6	2.3	3.0	56
58			3.3	3.2	3.0	2.5	2.2	2.8	58
60			3.1	2.9	2.6	2.3	2.0	2.6	60
62				2.55	2.3	2.1	1.9	2.3	62
64				2.25	2.0	1.9	1.7	2.0	64
66					1.7	1.6	1.5	1.7	66
68					1.4	1.4	1.4	1.4	68
70						1.2	1.3	1.2	70
72							1.0	1.0	72
74								0.8	74



	14.6	19.4	24.2	29.1	33.9	38.7	43.5	48.4	53.2	58	
3	130	110.0									3
3.5	115	105.0	92.0								3.5
4	105	100.0	86.0	83.0							4
4.5	100	95.0	82.0	81.0							4.5
5	92	90.0	78.0	78.0	72.0						5
6	81.5	80.0	72.0	72.0	68.0						6
7	68.9	70.7	65.0	65.0	64.0	60.0					7
8	59.0	60.8	61.5	61.5	59.0	56.0	48.0				8
9	51.3	53.1	53.7	53.7	53.3	53.0	46.0	40.0			9
10	45.1	46.9	47.5	47.5	48.0	46.0	43.0	38.5	34.0		10
12		37.5	38.2	39.3	39.1	37.4	37.8	36.0	31.5	25.0	12
14		30.9	31.5	32.6	32.4	31.9	32.7	30.5	28.0	24.0	14
16			26.5	27.6	27.4	28.2	27.7	25.5	25.1	22.3	16
18			22.6	23.6	23.8	24.3	23.8	22.1	22.0	20.4	18
20				20.5	21.4	21.2	20.7	20.3	19.3	18.5	20
22				17.9	18.9	18.6	18.1	17.7	17.1	16.6	22
24					16.7	16.5	16.0	15.6	15.0	14.8	24
26					14.9	14.7	14.2	13.8	13.2	13.1	26
28						13.1	12.6	12.2	11.6	11.6	28
30						11.8	11.2	10.8	10.1	10.1	30
32							9.9	9.5	8.9	8.9	32
34							8.8	8.4	7.8	7.7	34
36								7.4	6.8	6.8	36
38								6.6	5.9	5.9	38
40									5.2	5.2	40
42									4.5	4.8	42
44										4.6	44
46										4.3	46
48										4.1	48

LOAD CHARTS

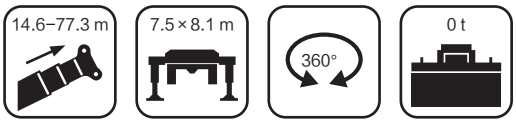
	62.8	67.7	72.5	77.3	82.1	83.8	86.3	88	
14	19.0	16.3							14
16	18.0	16.0	12.5						16
18	17.0	15.3	12.3	10.0					18
20	16.2	14.5	12.0	9.8	8.0				20
22	15.4	13.7	11.8	9.5	7.9	7.2	6.2	6.0	22
24	14.0	12.9	11.4	9.3	7.8	7.1	6.1	5.9	24
26	12.7	12.1	10.8	9.1	7.6	7.0	6.0	5.8	26
28	11.2	11.3	10.3	8.8	7.5	6.7	5.9	5.7	28
30	10.3	9.8	9.5	8.6	7.3	6.4	5.8	5.6	30
32	9.0	8.6	8.8	7.9	7.1	6.2	5.6	5.5	32
34	7.9	8.2	7.9	7.4	6.7	5.8	5.4	5.4	34
36	7.2	7.2	7.4	6.9	6.4	5.4	5.1	5.3	36
38	6.7	6.4	6.8	6.3	6.0	5.1	4.7	5.2	38
40	6.3	5.9	6.0	5.9	5.6	4.7	4.5	5.0	40
42	5.7	5.6	5.4	5.6	5.2	4.4	4.1	4.6	42
44	5.0	5.3	5.1	5.1	4.6	4.1	3.7	4.4	44
46	4.5	4.9	4.9	4.5	4.1	3.8	3.4	4.1	46
48	4.0	4.4	4.5	4.0	3.6	3.5	3.2	3.6	48
50	3.5	3.9	4.0	3.5	3.1	3.2	3.0	3.1	50
52	3.3	3.6	3.6	3.1	2.7	2.8	2.8	2.7	52
54		3.4	3.2	2.7	2.3	2.4	2.4	2.3	54
56		3.1	2.8	2.3	1.9	2.0	2.1	2.0	56
58			2.5	2.0	1.6	1.7	1.7	1.6	58
60			2.2	1.7	1.3	1.4	1.4	1.3	60
62				1.4	1.0	1.1	1.1	1.0	62
64				1.1					64



	14.6	19.4	24.2	29.1	33.9	38.7	43.5	48.4	53.2	58	
3	120	110.0									3
3.5	105	100.0	92.0								3.5
4	100	95.0	86.0	83.0							4
4.5	92	90.0	82.0	81.0							4.5
5	84	85.4	78.0	78.0	70.0						5
6	68.4	70.3	68.0	68.0	66.0						6
7	57.1	59.0	59.7	59.7	58.0	58.0					7
8	48.7	50.5	51.2	52.3	52.1	50.0	47.0				8
9	42.1	43.9	44.6	45.7	45.5	44.0	42.5	40.0			9
10	36.8	38.6	39.3	40.4	40.2	40.0	39.0	38.4	33.0		10
12		28.5	29.3	30.6	31.7	31.4	30.8	30.0	29.4	23.0	12
14		22.6	23.9	24.6	24.7	24.3	23.8	23.3	22.1	21.6	14
16			19.2	19.7	19.8	19.5	19.0	18.5	17.8	17.8	16
18			15.7	16.2	16.3	16.0	15.5	15.0	14.4	14.4	18
20				13.6	13.6	13.3	12.9	12.4	11.8	11.8	20
22				11.5	11.5	11.3	10.8	10.4	9.7	9.7	22
24					9.9	9.6	9.1	8.7	8.3	8.7	24
26					8.5	8.2	7.7	7.6	7.7	8.1	26
28						7.1	6.6	7.0	7.1	7.6	28
30						6.1	6.1	6.6	6.6	7.0	30
32							5.7	6.2	6.2	6.3	32
34							5.3	5.8	5.8	5.6	34
36								5.2	5.1	4.9	36
38								4.7	4.6	4.3	38
40									4.1	3.8	40
42									3.6	3.3	42
44										2.9	44
46										2.5	46
48										2.3	48

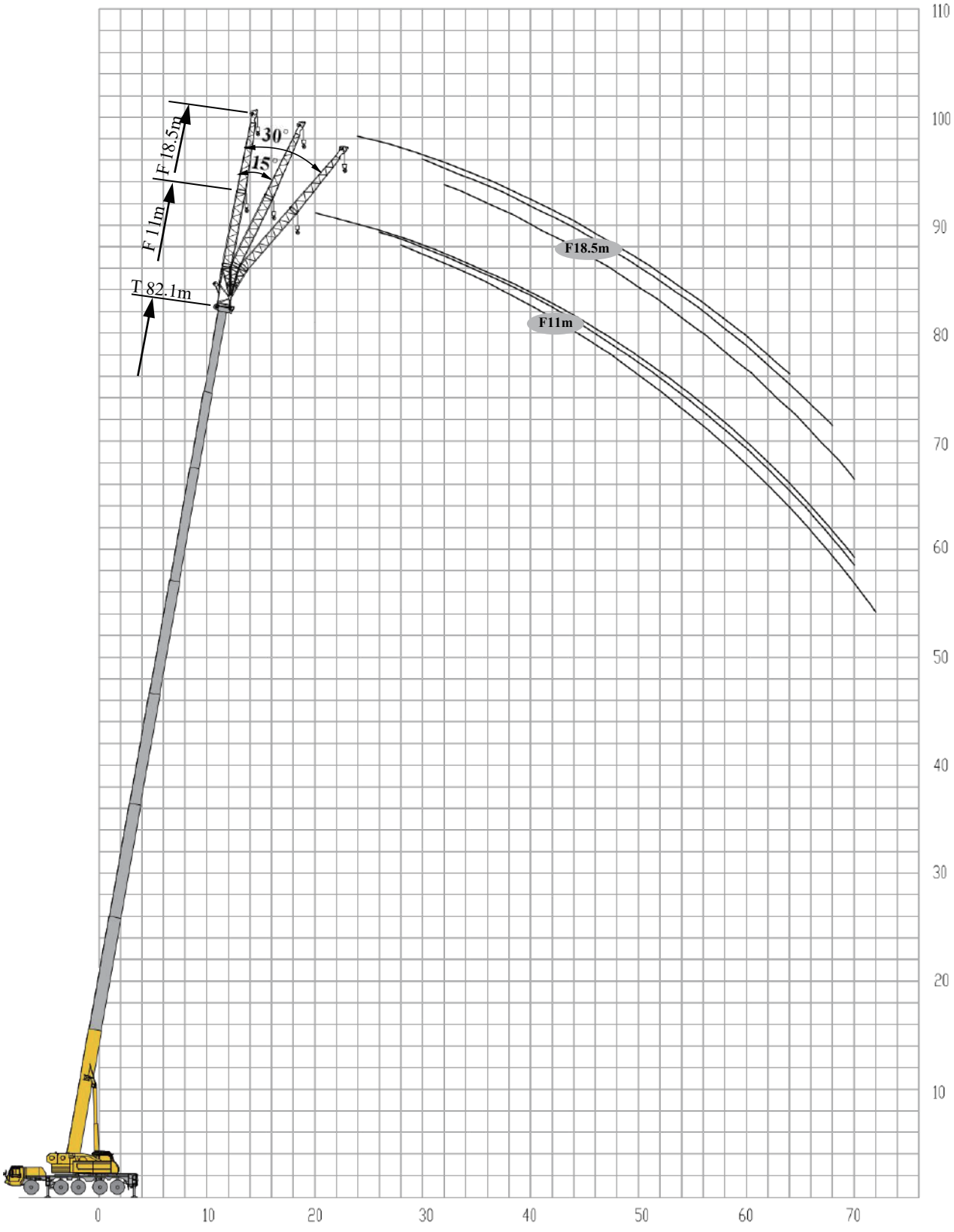
LOAD CHARTS

	62.8	67.7	72.5	77.3	82.1	83.8	86.3	88	
14	19.0	15.3							14
16	17.3	14.8	12.5						16
18	14.6	14.0	12.3	10.0					18
20	12.5	12.2	11.8	9.8	8.0				20
22	10.9	10.8	10.5	9.5	7.9	7.2	6.2	5.0	22
24	9.3	9.2	8.9	8.5	7.8	7.1	6.1	4.8	24
26	8.5	8.4	8.3	7.8	7.5	7.0	6.0	4.6	26
28	7.9	7.6	7.2	6.8	6.3	6.5	5.9	4.5	28
30	6.9	6.6	6.2	5.8	5.4	5.5	5.5	4.3	30
32	6.0	5.8	5.4	5.0	4.5	4.7	4.7	4.0	32
34	5.3	5.0	4.7	4.2	3.8	3.9	4.0	3.7	34
36	4.7	4.3	4.1	3.6	3.2	3.2	3.3	3.2	36
38	4.1	3.8	3.4	3.0	2.6	2.7	2.7	2.6	38
40	3.6	3.2	3.0	2.5	2.1	2.2	2.3	2.2	40
42	3.2	2.8	2.5	2.1	1.6	1.7	1.8	1.7	42
44	2.7	2.3	2.1	1.6	1.3	1.4	1.4	1.3	44
46	2.3	2.0	1.7	1.3		1.0	1.0		46
48	2.0	1.6	1.4						48
50	1.7	1.4	1.1						50
52	1.4	1.1							52



	14.6	19.4	24.2	29.1	33.9	38.7	43.5	48.4	53.2	58	62.8	67.7	72.5	77.3	
3	95.0	95.0													3
3.5	80.4	82.2	82.7												3.5
4	69.4	71.1	71.7	72.7											4
4.5	60.9	62.5	63.0	64.1											4.5
5	54.0	55.6	56.2	57.1	57.0										5
6	43.7	45.2	45.7	46.8	47.5										6
7	36.2	37.8	39.5	40.0	40.0	39.8									7
8	28.0	31.5	33.1	33.9	33.9	33.6	32.9								8
9	21.5	24.7	26.2	26.9	27.0	26.6	26.0	20.5							9
10	17.0	20.0	21.4	22.1	22.1	21.8	21.2	16.7	14.2						10
12		13.8	15.1	15.7	15.8	15.5	15.0	14.5	12.8	11.6					12
14		9.8	11.1	11.7	11.7	11.4	12.6	13.0	11.0	9.5	11.4	10.0			14
16			8.3	8.8	8.9	8.6	10.2	10.1	9.0	8.8	9.5	9.1	8.8		16
18			6.3	6.8	6.9	6.6	8.2	8.1	8.0	7.7	7.5	7.1	6.8	6.3	18
20				5.4	5.4	5.1	6.6	6.5	6.4	6.2	6.0	5.6	5.3	4.8	20
22				4.2	4.2	3.9	5.4	5.3	5.2	5.0	4.8	4.4	4.1	3.7	22
24					3.3	3.0	4.4	4.3	4.2	4.0	3.8	3.5	3.2	2.7	24
26					2.5	2.2	3.6	3.5	3.5	3.3	3.0	2.7	2.4	2.0	26
28						1.6	3.0	2.9	2.8	2.6	2.4	2.1	1.8	1.4	28
30						1.1	2.4	2.3	2.3	2.1	1.8	1.5	1.3		30
32							1.9	1.9	1.8	1.6	1.4	1.0			32
34							1.5	1.4	1.4	1.2	1.0				34
36								1.1	1.0						36

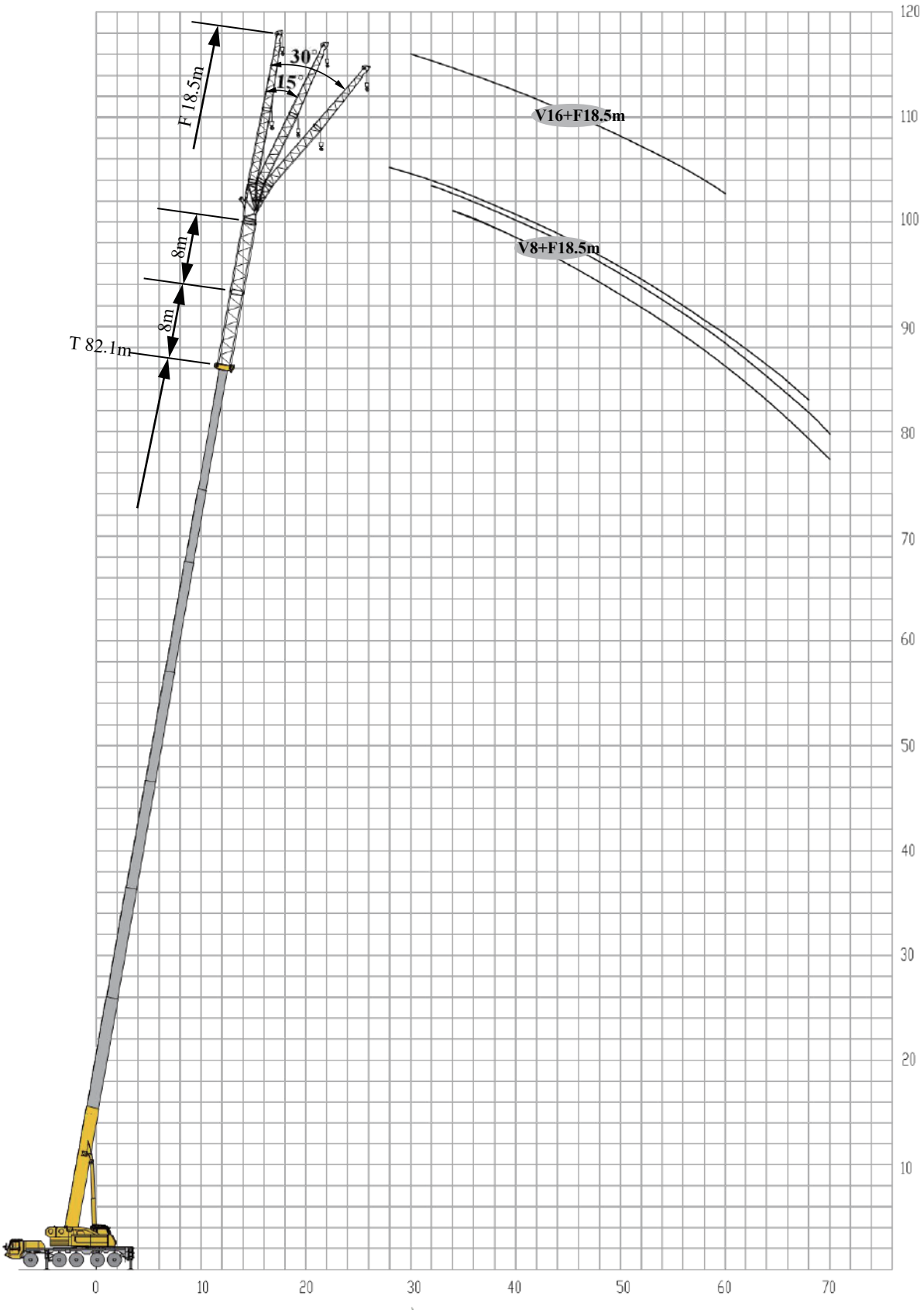
WORKING RANGE DIAGRAM



	72.5			77.3			82.1			
	11									
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
20	6.6									20
22	6.5	5.6		5.8			4.8			22
24	6.5	5.5		5.7	4.9		4.8			24
26	6.4	5.4	3.9	5.6	4.9		4.8	4.5		26
28	6.4	5.3	3.8	5.6	4.8	4.1	4.8	4.4	3.8	28
30	6.3	5.2	3.6	5.6	4.7	4.0	4.7	4.4	3.8	30
32	6.3	5.0	3.6	5.6	4.7	4.0	4.7	4.3	3.8	32
34	6.0	4.9	3.5	5.6	4.6	4.0	4.7	4.3	3.7	34
36	5.6	4.6	3.4	5.5	4.5	3.9	4.6	4.3	3.6	36
38	5.2	4.4	3.3	5.2	4.4	3.9	4.6	4.2	3.6	38
40	4.8	4.3	3.3	4.8	4.4	3.8	4.4	4.2	3.6	40
42	4.3	4.2	3.1	4.4	4.3	3.8	4.1	4.1	3.6	42
44	4.0	4.0	3.1	4.2	4.2	3.9	3.8	3.8	3.6	44
46	3.6	3.6	3.1	3.8	3.9	3.8	3.6	3.5	3.6	46
48	3.3	3.3	3.0	3.5	3.5	3.6	3.3	3.3	3.4	48
50	2.8	3.0	3.0	3.2	3.3	3.4	3.0	3.1	3.1	50
52	2.6	2.7	2.8	2.8	3.1	3.2	2.9	2.9	3.0	52
54	2.5	2.5	2.7	2.6	2.8	3.0	2.6	2.7	2.7	54
56	2.0	2.3	2.4	2.0	2.2	2.5	2.2	2.5	2.6	56
58	1.9	2.1	2.2	1.8	2.0	2.0	2.0	2.2	2.5	58
60	1.6	1.8	1.9	1.5	1.7	1.7	1.7	2.0	2.1	60
62	1.4	1.4	1.5	1.4	1.5	1.6	1.4	1.6	1.8	62
64	1.1	1.2	1.3	1.2	1.4	1.5	1.3	1.3	1.5	64
66		0.9	1.0	1.0	1.2	1.3	1.2	1.1	1.2	66
68					0.9	1.0	1.0	1.0	1.1	68
70									1.0	70

LOAD CHARTS

	72.5			77.3			82.1			
	18.5									
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
22	3.3			2.9						22
24	3.3	2.7		2.9			2.6			24
26	3.3	2.6		2.9	2.5		2.6			26
28	3.3	2.4	1.6	2.9	2.5		2.6			28
30	3.3	2.3	1.5	2.9	2.4	1.6	2.6	2.3		30
32	3.2	2.2	1.5	2.9	2.3	1.6	2.6	2.3	1.5	32
34	3.2	2.1	1.5	2.9	2.2	1.5	2.6	2.3	1.5	34
36	3.1	2.0	1.4	2.9	2.1	1.4	2.6	2.1	1.4	36
38	3.0	1.9	1.4	2.9	1.9	1.4	2.6	2.0	1.4	38
40	3.0	1.9	1.3	2.9	1.9	1.4	2.6	1.9	1.4	40
42	2.9	1.8	1.3	2.9	1.9	1.3	2.6	1.9	1.3	42
44	2.8	1.8	1.3	2.9	1.9	1.3	2.6	1.9	1.3	44
46	2.7	1.7	1.3	2.8	1.7	1.3	2.6	1.8	1.3	46
48	2.6	1.7	1.2	2.7	1.6	1.3	2.6	1.8	1.3	48
50	2.4	1.7	1.1	2.6	1.6	1.3	2.6	1.7	1.3	50
52	2.3	1.5	1.1	2.4	1.6	1.2	2.5	1.6	1.1	52
54	2.2	1.5	1.1	2.3	1.5	1.2	2.5	1.6	1.1	54
56	2.1	1.4	1.1	2.3	1.5	1.2	2.2	1.5	1.1	56
58	2.1	1.4	1.1	2.0	1.5	1.2	2.1	1.5	1.1	58
60	1.9	1.4	1.1	1.8	1.4	1.2	1.9	1.5	1.1	60
62	1.7	1.4	1.1	1.6	1.4	1.1	1.7	1.5	1.0	62
64	1.4	1.3	1.1	1.4	1.4	1.1	1.5	1.4	1.0	64
66	1.2	1.3	1.0	1.1	1.2	1.1		1.2	1.0	66
68	0.9	1.1	1.0		1.0	1.0		1.0	1.0	68
70		0.9	1.0			0.9			0.9	70
70									1.0	70


F 18.5m
30°
15°
V16+F18.5m
V8+F18.5m
8m
8m
T 82.1m
120
110
100
90
80
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60
50
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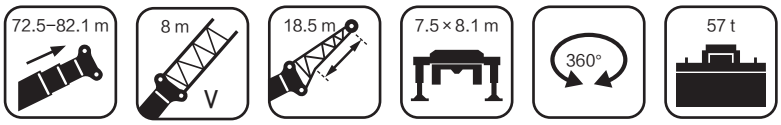
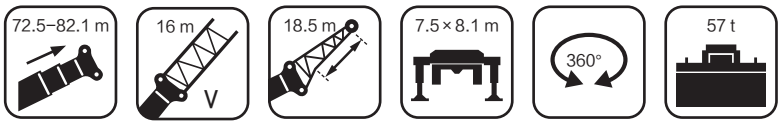
30
20
10
0
10
20
30
40
50
60
70

LOAD CHARTS

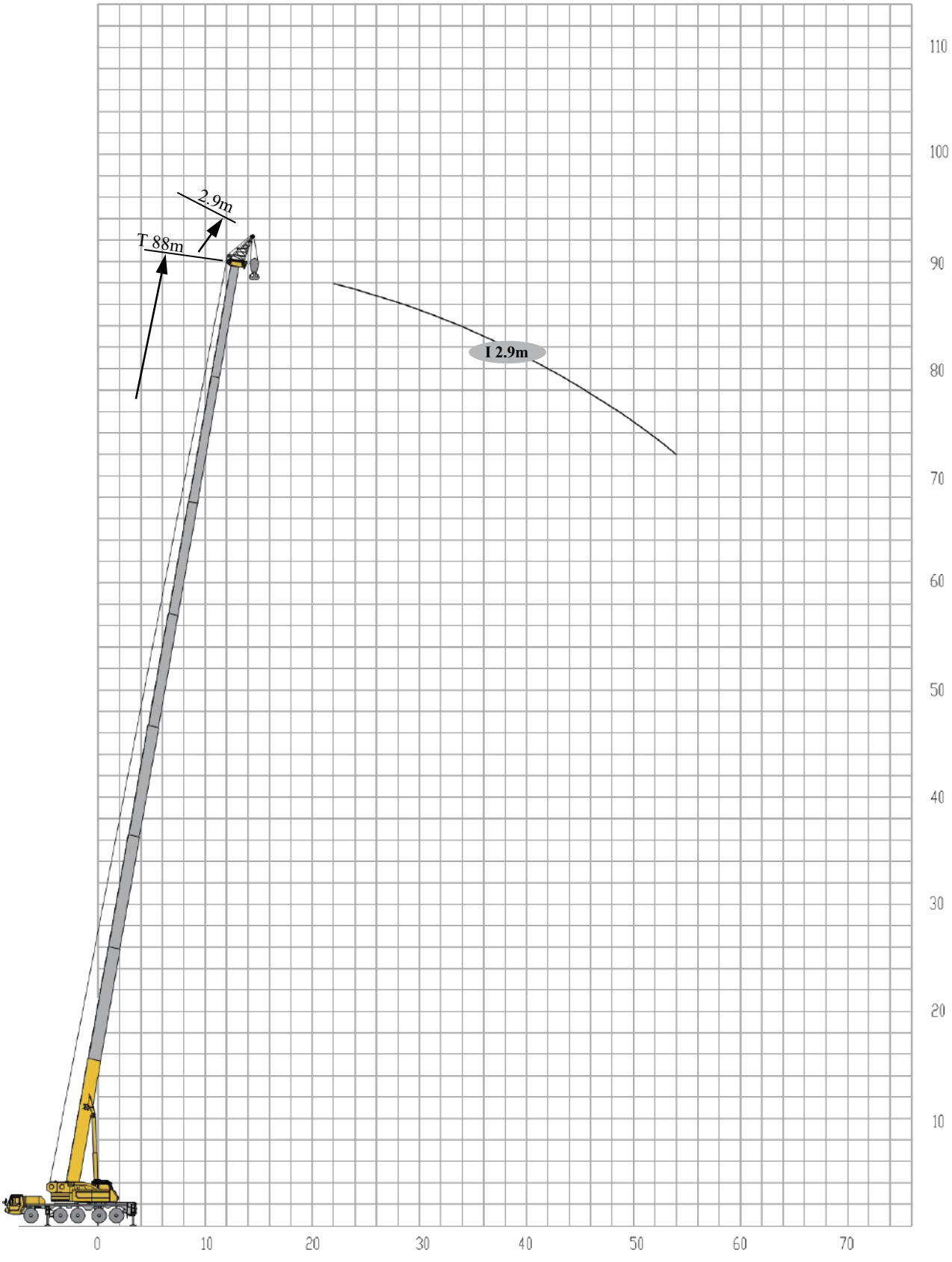


	72.5+8			77.3+8			82.1+8			
	18.5									
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
24	2.9			2.6						24
26	2.9			2.6						26
28	2.9	2.4		2.6			2.3			28
30	2.8	2.4	1.7	2.6	2.3		2.3			30
32	2.8	2.3	1.6	2.6	2.3		2.3	2.1		32
34	2.8	2.3	1.5	2.6	2.3	1.6	2.3	2.1	1.5	34
36	2.8	2.2	1.5	2.6	2.2	1.6	2.3	2.0	1.5	36
38	2.8	2.1	1.4	2.6	2.1	1.5	2.3	2.0	1.4	38
40	2.8	2.0	1.4	2.6	2.1	1.4	2.3	2.0	1.4	40
42	2.8	1.9	1.4	2.6	2.0	1.4	2.3	2.0	1.4	42
44	2.8	1.8	1.3	2.6	1.9	1.4	2.3	1.9	1.4	44
46	2.8	1.8	1.3	2.5	1.9	1.3	2.3	1.9	1.3	46
48	2.7	1.8	1.3	2.5	1.8	1.3	2.3	1.9	1.3	48
50	2.6	1.7	1.3	2.4	1.8	1.3	2.3	1.8	1.3	50
52	2.3	1.7	1.3	2.4	1.8	1.3	2.2	1.8	1.3	52
54	2.1	1.7	1.2	2.2	1.7	1.3	2.0	1.8	1.3	54
56	1.8	1.6	1.1	2.0	1.7	1.3		1.7	1.3	56
58	1.7	1.6	1.1	1.9	1.7	1.2		1.7	1.3	58
60	1.5	1.6	1.1		1.6	1.1			1.3	60
62	1.3	1.5	1.1		1.5	1.1				62
64	1.2	1.4	1.1			1.1				64
66	1.1	1.2	1.0							66
68			1.0							68
70			0.9							70



	72.5+16			77.3+16	82.1+16	
	18.5					
	0°	15°	30°	0°	0°	
28	2.6			2.0		28
30	2.6	2.3		2.0	1.6	30
32	2.6	2.3		2.0	1.5	32
34	2.6	2.2	1.6	2.0	1.5	34
36	2.6	2.2	1.5	1.9	1.5	36
38	2.6	2.1	1.5	1.9	1.5	38
40	2.6	2.0	1.5	1.9	1.5	40
42	2.6	2.0	1.4	1.8	1.5	42
44	2.6	1.9	1.4	1.8	1.5	44
46	2.6	1.8	1.4	1.8	1.4	46
48	2.3	1.7	1.3	1.7		48
50	2.1	1.7	1.3	1.7		50
52	1.9	1.7	1.3			52
54	1.5	1.7	1.3			54
56	1.3	1.6	1.3			56
58		1.5	1.3			58
60		1.3	1.3			60
62			1.1			62

WORKING RANGE DIAGRAM



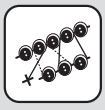
	72.5	77.3	82.1	88	
	2.9				
	0°				
18	10.0				18
20	10.0	7.8	6.1		20
22	9.9	7.7	6.0	4.2	22
24	9.9	7.6	5.8	4.0	24
26	9.2	7.1	5.5	3.9	26
28	8.5	6.6	5.2	3.6	28
30	7.9	6.1	4.8	3.5	30
32	7.3	5.5	4.4	3.3	32
34	6.8	5.3	4.1	3.0	34
36	6.2	4.8	3.8	2.8	36
38	5.8	4.4	3.5	2.5	38
40	5.4	4.1	3.2	2.4	40
42	5.0	3.9	3.0	2.1	42
44	4.6	3.6	2.7	1.9	44
46	4.2	3.3	2.5	1.8	46
48	3.9	3.0	2.2	1.6	48
50	3.7	2.7	2.1	1.5	50
52	3.3	2.5	1.9	1.3	52
54	2.8	2.3	1.8	1.1	54
56	2.4	2.1	1.6		56
58	2.0	2.0	1.4		58
60	1.7	1.8	1.3		60
62	1.7	1.6	1.1		62
64	1.4	1.4	1.0		64
66		1.2			66
68		1.0			68

TABLE OF MAIN TECHNICAL PARAMETERS

TYPE	ITEM		UNIT	PARAMETERS	
Dimensions	Dimensions (L×W×H)		mm	16393×3000×3990	
	Axle spacing		mm	1500+4200+1500+1500	
	Track (front/rear)		mm	2562/2562	
	Front overhang / rear overhang		mm	2534/2177	
	Front extension / rear extension		mm	2389/593	
Weight	Maximum permissible total weight		kg	54900	
	Axle load	Axle 1	kg	9450	
		Axle 2	kg	9450	
		Axle 3	kg	12000	
		Axle 4	kg	12000	
		Axle 5	kg	12000	
Power	Engine model		——	WP10HG400E670 (Chassis)	WP7G300E473 (Superstructure)
	Maximum rated power / rpm		kW/(r/min)	294/1900	221/2200
	Maximum net power / rpm		kW/(r/min)	289/1900	221/2200
	Maximum output torque / rpm		N.m/(r/min)	1900/1200-1300	1200/1400-1600
Travel	Maximum travel speed		km/h	48	
	Minimum stable travel speed		km/h	2	
	Minimum turning diameter		m	≤22	
	Minimum turning diameter at boom tip		m	≤28.36	
	Minimum ground clearance		mm	310	
	Approach angle		°	18	
	Departure angle		°	14	
	Braking distance (initial speed at 38.4 km/h)		m	≤15.2	
	Maximum grade ability		%	45	
	Fuel consumption per 100 km		L	65	
Noise	Exterior noise level when accelerating		dB(A)	≤119.3	
	Noise level at seated position		dB(A)	≤89	

TYPE	ITEM			UNIT	PARAMETERS
Main performance	Maximum rated lifting capacity			t	160
	Minimum rated working radius			m	3
	Turning radius at turntable tail	At the counterweight		mm	5370
		At auxiliary winch		mm	4628
	Maximum load moment	Base boom		kN.m	4939
		Fully-extended boom		kN.m	1950
		Fully-extended boom + jib		kN.m	1714
	Outrigger span	Longitudinal		m	7.5
		Lateral		m	8.1
	Lifting height	Base boom		m	15.2
		Fully-extended boom		m	86.2
		Fully-extended boom + jib		m	116
	Boom length	Base boom		m	14.6
		Fully-extended boom		m	88
		Fully-extended boom + jib		m	116.6
	Jib offset angle			°	0, 15, 30
Working speed	Time for raising boom			s	≤65
	Time for fully extending the boom			s	≤900
	Maximum slewing speed			r/min	≥1.5
	Time for extending and retracting outriggers	Outrigger beams	Retracting	s	≤45
			Extending	s	≤45
		Outrigger jacks	Retracting	s	≤65
			Extending	s	≤65
	Lifting speed (single line, no load)	Main winch system		m/min	≥135
		Auxiliary winch system		m/min	≥90
Noise	Exterior noise level			dB(A)	≤107
	Noise level at seated position			dB(A)	≤85

DESCRIPTION OF SYMBOLS

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

	Breaking force of wire rope
	Maximum working speed
	Main winch
	Auxiliary winch
	Chassis
	Outrigger span
	Tire
	Axle load
	Grade ability
	Travel speed
	Luffing

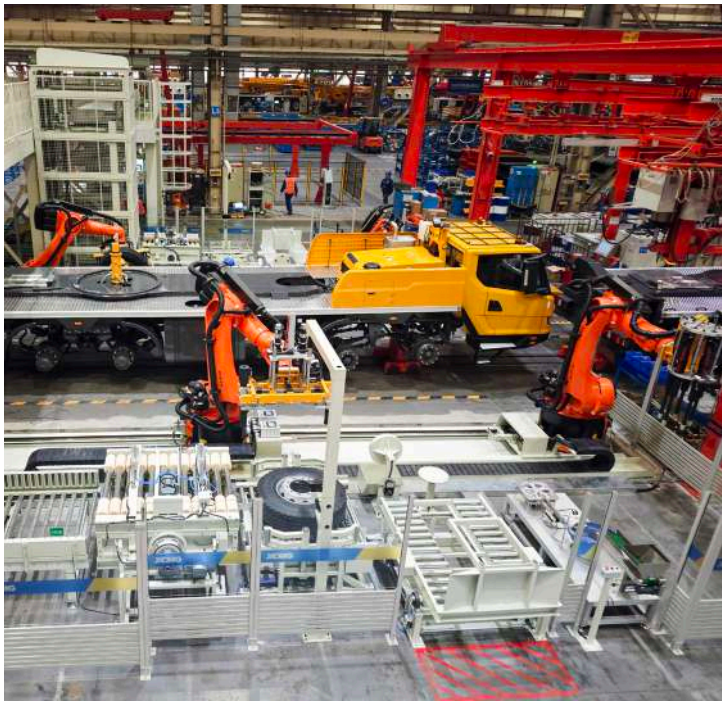
	Maximum lifting height
	Maximum working radius
	Super lift
	Wind power jib
	Telescoping
	Slewing
	360° slewing
	360° slewing with the 5th jack down
	Side and rear operation
	Operation over rear
	EN 13000 standard

SAFE AND RELIABLE

G-SAFE LIFE CYCLE SAFE QUALITY

INTELLIGENT QUALITY MANUFACTURING

- Driven by digital models, we have implemented leading intelligent quality manufacturing technologies, integrating process simulation and simulation technology, creating a high-end manufacturing platform that combines manufacturing and process.



INTELLIGENT ASSEMBLING

SPRAYING PROCESS OF ROBOTS

DIGITIZED CORE COMPONENTS WORKSHOP

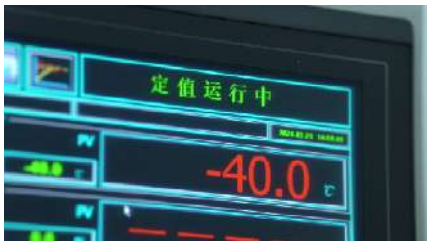
UNMANNED AUTOMATIC WELDING

DIGITIZED STRUCTURE WORKSHOP

PARTS AND COMPLETE MACHINE TESTING

- Each technology and component is restructured to meet the most stringent quality inspection standards.
- Each complete machine undergoes rigorous testing and a large number of experiments to ensure reliable operation in various complex environments.

OVER 2,000 COMPONENTS OF 123 KINDS UNDER 5 CATEGORIES



HMI display
Low-temperature performance test under -40°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/m^2).

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