



## Truck Crane

### Model:XCT55L5

### Basic technical specifications

#### Lifting capacity

Max. lifting load

55t

#### Dimension

Overall length

13980mm

Overall width

2550mm

Overall height

3610mm

#### In travel configuration

Total weight

44000/42500Kg

Axle load of 1st axle

9000/8250Kg

Axle load of 2nd axle

9000/8250Kg

Axle load of 3rd axle

13000Kg

Axle load of 4th axle

13000Kg

#### Performance

Max. travel speed

90km/h

Max. grade ability

45%

Boom

5 sections, 11.6m~44.5m

Length of boom + jib

60.5m

Max. lifting height of boom

44.5m

Max. lifting height of boom + jib

60.3m

徐州重型机械有限公司

Xuzhou Heavy Machinery CO.,LTD

## Features and advantages of XCT55 (I type) Truck Crane

XCT55 truck crane is designed mainly for domestic market including international market's demands. Adopting exclusive self-made chassis, it is applicable for wider roads in which the lifting and hoisting working of normal constructions can satisfy the common



lifting jobsites with higher hoisting height, stronger lifting capacity and higher working efficiency. It is widely used in many complicated jobsites such as constructions, urban renovation, transportation, port, bridge, oil and mining etc.

With four-axle crane chassis and K-shaped outrigger, XCT55 has five-section boom of U-shaped added with two lattice jibs and concealed double-independent winches. Equipped with low speed and large torque power system, it adopts new energy-saving hydraulic system mounted with a combined counterweight (or build-in counterweight available). With XCMG G-generation brand new design and man-made interactive system reaching the level of car, XCT 55 takes the lead of the highest performance in the industry which contributes to more intelligent, energy-saving and humanized.

### (1) High Performance

Five-section boom with U-shaped profile optimizing the proportion of height and width is made of imported high tension steel material which can reduce boom torsion and side-bending. Inserted sliders may efficiently increase the overlapping length of adjacent boom sections, eliminating the point contact or line contact between slider and boom while the boom is lifting a load and avoiding effectively local buckling phenomenon. Compact tail boom can improve the telescoping proportion of boom resulting in effective increase of the length of full-extended boom. Boom length of 44.5m exceeds 1m of the highest level in the industry with K-shaped outrigger span 7.3m×8.035m contributing to greatly improvement of stability. Fully allocated lifting capacity exceeds 20% of the highest level in the industry.

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A high precision pressure shut-off valve is added to prevent pressure shock during lifting operations, to eliminate winch shaking while lowering the hook in case high temperature of hydraulic oil, greatly improving the reliability of lifting operations. A large displacement motor, combined with an oil-refilling circuit specialized for the winch and precise brake control, contributes to the response speed in millisecond and protection against winch speed out of control and prevents the load from sliding down while starting second lift.

### (2) Intelligence

The latest control and technology platform with re-planning system achieve operation and driving intelligence. XCT 55 is equipped with multiple functions such as automatic lifting planning, virtual instrument display, automatic multi-language switch, cruise control system and remote flameout.

### (3) Energy-saving

New energy-saving hydraulic system includes the lifting hydraulic system consisting of variable displacement pump and constant displacement motor and the slewing hydraulic system consisting of constant displacement pump and constant displacement motor with low-speed large torque. Mature slewing buffering technology is applied. The external-controlled power lowering boom combined with gravity fall results in increased lowering speed from a larger boom angle, improving working efficiency more than 30%. New-generation intelligent control hydraulic system with independent radiator contributes to real-time control of radiator switch and rotary speed. Meanwhile, optimized core radiator improves more than 10% with radiator power reducing 25%.

With low speed and large torque engines and high ratio, overdrive gearbox as the core of a new power platform, XCT 55 has a strong driving performance, large quantity of load capacity, good stability, which can achieve a high dynamic performance with low fuel consumption reduced by 12% and driving performance improved by 15%.

First released energy recycle technology can recovery and reuse the power energy from braking. The speed can reach 30km/h when starting for 5.3s and grade ability improved by 5%.

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#### (4) Appearance and humanization

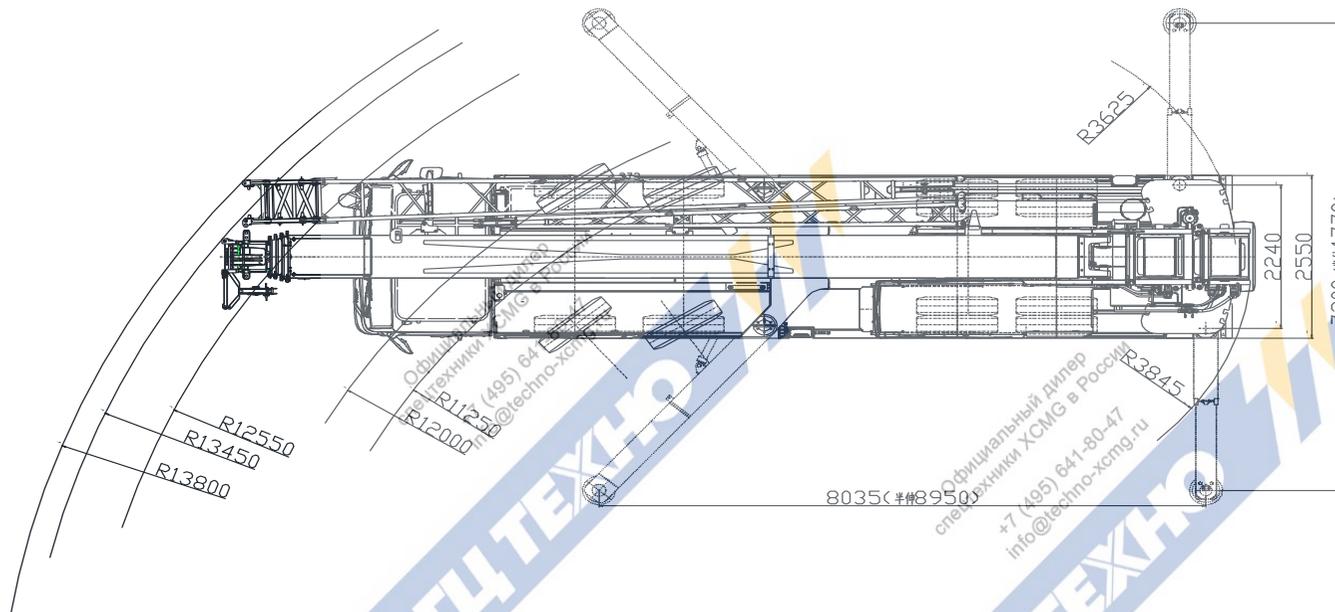
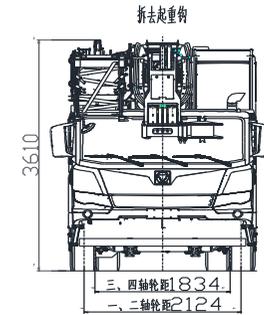
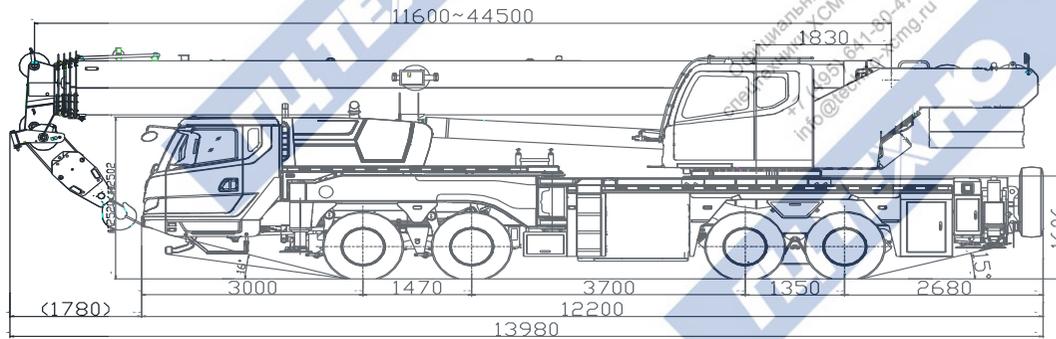
Designed with XCMG G-generation truck crane, the steady and elegant XCT 55 combines man-made mechanisms that comprehensively promote the humanization matching air suspension in driver's cab with low noise. More comfortable driving performance can be achieved equipped with new deck made of aluminum and more elegant appearance.

Made of new combined material, the hood is shaped from models with good appearance. The board and assist grip are made of aluminum alloy reducing the hood height by 30%-40%.

For slewing locking mechanism, it is manipulated by flexible shaft control with which the slewing can be locked and started in operator's cab.

XCMG man-machine interactive system with the level of car: working space is designed according to ergonomics and 13 items of intelligentize and informatization interactive technology are integrated, which brings more friendly man-machine conversation.

# Overall dimensions and turning track of crane in travel configuration



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## Technical specifications of superstructure

Model XCT55 (I type)

Hydraulic system Hydraulic pump: the variable plunger pump driven by engine is used to control hoisting, elevating and telescoping; and the gear pump is used for slewing operations.

Control valve: load sensitive proportional multi-way change valve controlled by electric proportional pilot hydraulic oil

Oil circuit..... air-cooled hydraulic oil cooler reduces system oil temperature effectively

Oil tank capacity.....about 1000L

Boom Five-section boom with U-shaped profile is made of high strength steel. The double-cylinder plus rope telescoping system, arbitrary telescopic boom with synchronous system consisting of 2 telescoping cylinder and telescoping wire rope. Each cylinder is equipped with safe valves.

Boom length.....11.6m~44.5m, single-plate boom head and compact tail boom.

Extending speed..... 80s is needed for fully extending the boom to 44.5m.

Jib It is stowed beside the boom, consisted of a connecting bracket, a rotating bracket and two lattice bi-fold jibs with jib offset angle: 0°,15°,30°

Jib length .....9.2m/16m

Boom single top (standard) Boom single top is installed on the top of boom and used for lifting operation of single line wire rope.

Boom auxiliary pulley The lifting performance of boom single top is the same with boom, but max. load capacity cannot exceed 5000kg.

Elevating system A single-cylinder is used for front support elevation. Elevating balance valve with load compensational function is used to prevent elevating from quickly drop and to get smoother

movements of lowering the boom. The outer-controlled gravity fall combined with power lowering boom not only ensures smoothness but also reduces the energy consumption in the hydraulic system and increases the lowering speed from a larger boom angle.

Speed: 40s or less for elevating operation from  $-1^{\circ}$  to  $+80^{\circ}$ .

Main winch

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 balanced valve and a grooved drum equipped. It has features of high speed with a light load and low speed with a heavy load.

The auxiliary winch can be operated separately.

Single line pull: 50 KN

Single line speed (no load): 130 m/min

Diameter  $\times$  length:  $\phi 18\text{mm} \times 208\text{m}$

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 balanced valve and a grooved drum equipped. The auxiliary winch can be operated separately. It has features of high speed with a light load and low speed with a heavy load.

Single line pull: 50 KN

Single line speed (no load): 130 m/min

Diameter  $\times$  length:  $\phi 18\text{mm} \times 140\text{m}$

Hook blocks

No.	Type	Lifting capacity (t)	Pulley block	Parts of line	Weight (kg)	Qty	Remark
1	Main hook block	55t	6	12	550	1	
2	Medium hook block	35t	4	8	360	1	
3	Auxiliary hook block	5t	—	1	100	1	

Slewing system

Single-row four-point contact ball type with external slewing ring, planetary gear slewing reducer is driven by hydraulic motor which can slew 360° continuously.

It has functions of power control or free slewing and stepless speed regulation is available.

Slewing speed.....0~2r/min

Operating mode

Electric hydraulic proportional control is used for controlling the superstructure. Adopting CAN assembly LMI control system, it has many functions besides normal control functions such as hoisting planning, virtual instrument display, automatic fault diagnosis.

Operator's cab

New fully-enclosed steel cab has better sealing and anti-corrosive properties and it's safe and comfortable to use. It is equipped with a full-view front window. Safety glass and sun shield are used for windows. The cab features a new ergonomic seat design with backrest adjustment and armrests with joysticks fitted. A sliding door and a pull-out step are available to make it easy and safe as access and egress the cab. Wipers are fitted for the windshield and roof window.

Standard controls and indicators are ergonomically arranged in the cab.

Safety devices

Hydraulic balance valve;

Hydraulic relief valve;

Double-way hydraulic valve;

LMI;

Lowering limiter for preventing wire rope from over-releasing;

Height limiter on boom tip for preventing wire rope from over-spooling

LMI

Hirschmann load moment limiting system, a safety protective device in operator's cab for superstructure. When the actual load moment is approaching overloading value, audible warning will be set out, and dangerous operation will be stopped automatically before overloading.

Overload memory function (black box) and fault self-diagnosis function are available.

What can be shown continuously is as follows:

- Load moment percentage
- Actual lifting capacity
- Rated lifting capacity
- Working radius
- Boom length
- Boom angle
- Max. lifting height
- Working condition code
- Parts of line
- Limit boom angle
- Information code

Two types of counterweight:

constant counterweight Total weight is 74 t, constant counterweight is 5.2t.

Combined counterweight Counterweights of 5.2 t, 6.5 t and 9.5 t are available.

Combination of counterweight slabs

Dead weight and number of counterweight slabs

Item	Fixed slab ①	Slab ②	Slab ③ (optional)
Dead weight (t)	5.2	1.3	3
Number of slabs	1	1	1

Color

Chassis: black. Wheel rim: grey.

Driver's cab, superstructure and boom: engineering yellow.

## Technical specification of chassis

### Type

Left-hand drive steering wheel, drive/steering type is  $8 \times 4 \times 4$ , axles 3 and 4 for driving and axles 1 and 2 for steering.

### Frame

In-house designed and manufactured by XCMG, the load-bearing structure is optimized. It is made of high strength steel and has anti-torsion box structure with walking surface covered.

### Engine

Model	MC11.36-40	SC10E340Q4
Type	In-line, 6 cylinder, water cooled, supercharging intercooler, high pressure common rail, compression ignition engine	
Manufacture	CHINA NATIONAL HEAVY DUTY TRUCK GROUP CO., LTD.	Shanghai Diesel Engine Co., Ltd.
Power/kw/rpm	268/1900	251/1900
Torque/N.m/rpm	1800/1000-1400	1550/1300
Displacement/ml	10.518	10.42
Fuel tank capacity	About 320	
Emission standard	China National IV	China National IV
Remark	Configuration 1	Configuration 2

### Transmission

Shanchi10JSD160TB mechanical transmission with manual remote flexible shaft control and synchronizers, 10 forward gears, 2 reverse, stable and reliable.

Clutch

Dry, pull-type diaphragm spring clutch

Steering system

1st and 2nd axles are mechanically steered plus hydraulic booster

Axles

Four high strength load-bearing axles with reliable performance, axles 3 and 4 for driving and axles 1 and 2 for steering, designed by advanced foreign technology and made by distinguished manufacturer.

1st axle: single tire, for steering;

2nd axle: single tire, for steering;

3rd axle: double tire, for driving;

4th axle: double tire, for driving;

Drive shaft

Cross serrated flange is adopted for connection of drive shafts, so transmission torque is enlarged and power transmission is optimized. Consequently smooth and reliable transmission may be gained.

Suspensions

Spring suspension is adopted for front suspension and rubber suspension for rear with light weight and no maintenance.

Braking system

Service brake: pedal operated double-circuit air pressure brake.

The first circuit acts on wheels of axles 1 and 2; the second circuit acts on wheels of axles 3 and 4.

Parking brake: air-release brake, acting on axles 3 and 4 by the spring energy storing air chamber on each axle;

Auxiliary brake: engine exhaust brake+ engine compression retarder brake

Hydraulic system

Quantitative open circuit is used for outrigger hydraulic system with quantitative gear pump coupled to transmission through PTO. Horizontal, vertical and swing cylinder switch are controlled by solenoid valve.

Front outrigger is controlled through swing and rear outrigger through telescoping.

Outriggers

Front-swing and back-level outrigger structure is supported by

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4 points and controlled by hydraulic. There is an outrigger control station located at each side of the chassis, and there is a level gauge on each control station. Outrigger floats are secured under jacks through ball pivots. The outriggers are designed to support the entire crane for better operations under various working conditions.

Outrigger span:

Longitudinal × lateral.....8.035m×7.3m

Float dimension.....diameter of 450mm

Reaction force of outrigger at max. lifting load.....580000N

Electric system

24V DC, negative ground, 2 batteries. There is a perfect illuminating system complying with Chinese road traffic standard, including head lamp, fog lamp and reversing lamp, etc.

Driver's cab

New full-dimension enclosed cab, luxury and comfort. It is designed to be leakproof, anti-corrosive and shockproof. It is equipped with a windshield offering outstanding visibility, rear mirrors, electric control washer, electronic lifters of doors and windows, heater & air conditioner, radio cassette player, etc. An air suspension seat for the driver and a simple sleeper for the co-driver's seat are installed to supply comfort and reduce fatigue. Well-proportioned outline shows strong modern sense with outstanding features. Newly designed cab appearance includes exquisite coating of door handle and step, decoration of rear of side window and A-pillars, headlamps and air-inlet grille.

Tires

315/80R22.5 tubeless tires, has features of strong load-bearing capacity and light weight.

Tools

A set of maintenance tools is supplied.

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**Disassembled components dimension list for overload products (road travel)**

No.	Name		Weight (kg)	Total weight (t)	Dimension (mm)	Remark
1	Hook block	Medium hook	360	3.36	504×389×1355	Optional
2	Counterweight	Slab B	3000		2400×1290×248	Optional

**List of parts transported (jobsite transfer)**

No.	Name		Weight (kg)	Total weight (t)	Dimension (mm)	Remark
1	Hook block	Medium hook	360	3.36	504×389×1355	Optional
2	Counterweight	Slab B	3000		2400×1290×248	Optional

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**Main parts list**

(Take real parts as standard)

No.	Name	Manufacturer
1	Engine	CHINA NATIONAL HEAVY DUTY TRUCK GROUP CO., LTD. / Shanghai Diesel Engine Co., Ltd.
2	Transmission	SHAANXI FAST GEAR Co., Ltd.
3	Steering gear	Jiangmen Xingjiang Steering Gear Co., Ltd. Nantong Huanqiu Steering Gear Co., Ltd.
4	Axle	Xuzhou Meritor Axle Co., Ltd.
5	Tire	Double cion group tyre Co., Ltd Guizhou Tyre Co., Ltd. Triangle Group Co., Ltd
6	Chassis hydraulic pump	Zhonghang Liyuan Hydraulic Co., Ltd. PERMCO (Tianjin) Hydraulic INC., LTD
7	Extension cylinder	Xuzhou Hydraulic Parts Co., Ltd. XCMG Zhangjiakou Changyu Construction Machinery Hydraulic Cylinder Co., Ltd.
8	Swing cylinder	Xuzhou Hydraulic Parts Co., Ltd. XCMG Zhangjiakou Changyu
9	Front jack cylinder	Xuzhou Hydraulic Parts Co., Ltd. XCMG Zhangjiakou Changyu Construction Machinery Hydraulic Cylinder Co., Ltd.
10	Rear jack cylinder	Xuzhou Hydraulic Parts Co., Ltd. XCMG Zhangjiakou Changyu Construction Machinery Hydraulic Cylinder Co., Ltd.
11	Superstructure multi-way valve	Zhejiang Shengbang Science & Technology Co., Ltd. Xuzhou Hydraulic Parts Co., Ltd. XCMG
12	Slewing ring	Xuzhou Rothe Erde Slewing Bearing Co., Ltd. Maanshan Fangyuan Slewing Bearing Co., Ltd.
13	Slewing motor	NINGBO ZHONGYI HYDRAULIC MOTOR CO., LTD.
14	Slewing reducer	Xuzhou Shengbang Mechinery Co., Ltd. Qingdao Haili gear box Co., Ltd.
15	Main winch motor	Bosch Rexroth Co., Ltd. Zhonghang Liyuan Hydraulic Co., Ltd.
17	Main winch reducer	Xuzhou Shengbang Mechinery Co., Ltd. Qingdao Haili gear box Co., Ltd.
18	Main/ Auxiliary winch rope	Jiangsu Langshan wire Rope Co., Ltd. China Juli Sling Co., Ltd.
19	Auxiliary winch motor	Bosch Rexroth Co., Ltd. Zhonghang Liyuan Hydraulic Co., Ltd.

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21	Auxiliary winch reducer	Xuzhou Shengbang Mechinery Co., Ltd. Qingdao Haili gear box Co., Ltd.
22	Elevating cylinder	Xuzhou Hydraulic Parts Co., Ltd. XCMG Chengdu Hydraulic Cylinder Co., Ltd.
23	Telescoping cylinder	Xuzhou Hydraulic Parts Co., Ltd. XCMG Chengdu Hydraulic Cylinder Co., Ltd.
24	LMI	Xuzhou Hirschmann Electronics Co., Ltd.
25	boom plate	BAOSTEEL
26	Vehicle hydraulic system connector	Jianhu Tejia Hydraulic parts Co., Ltd. Xuzhou Hydraulic Parts Co., Ltd. XCMG
27	Hydraulic proportional joysticks	Hydro control Walvoil

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## Technical Specifications

### Main Technical Data Table of XCT55 (I type) in Travel configuration

(Subject to technical improvement)

Category	Item	Unit	Parameter		
Dimensions	Overall length	mm	13980		
	Overall width	mm	2550		
	Overall height	mm	3610		
	Wheel base	mm	1470+3700+1350		
	Track	mm	2124/2124/1834/1834		
	Front overhang	mm	3000		
	Rear overhang	mm	2680		
Weight	Total weight in travel	kg	44000/42500		
	Axle load	1st axle	kg	9000/8250	
		2nd axle	kg	9000/8250	
		3rd axle	kg	13000	
		4th axle	kg	13000	
Power	Engine model		MC11.36-40	SC10E340Q4	
	Engine rated power	kw/(r/min)	268/1900	251/1900	
	Engine rated torque	N. m/(r/min)	1800/1000-1400	1550/1300	
Travel	Travel speed	Max. travel speed	km/h	90	
		Min. travel speed	km/h	2.5~3	
	Turning diameter	Min. turning diameter	m	24	
		Min. turning diameter at boom tip	m	26.9	
	Min. ground clearance	mm	303.5		
	Approach angle	°	16		
	Departure angle	°	15		
	Braking distance (at 30 km/h)	m	≤10		

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	Max. grade ability	%	45
	Oil consumption per 100 km	L	35
	Exterior noise level	dB (A)	≤88
	Noise level at seated	dB (A)	≤90

### Main Technical Data Table for Lifting Operation

(Subject to technical improvement)

Category	Item		Unit	Parameter	
Main performance	Max. total rated lifting capacity		t	55	
	Min. rated working radius		m	3	
	Turning radius at turntable tail	Counterweight	mm	3625	
		Auxiliary winch	mm	3845	
	Max. load moment	Base boom	kN. m	2033	
		Fully-extended boom	kN. m	1223	
		Fully-extended boom + Jib	kN. m	802	
	Outrigger span (fully-extended)	Longitudinal	m	8035	
		Lateral	m	7300	
	Hoist height	Base boom	m	11.9	
		Fully-extended boom	m	44.5	
		Fully-extended boom + Jib	m	60.3	
Boom length	Base boom	m	11.6		
	Fully-extended boom	m	44.5		
	Fully-extended boom + Jib	m	60.5		
Jib offset angle		m	0、15、30		
Working speed	Elevating time	Boom raising	s	40	
	Telescoping time	Fully extended	s	80	
	Max. slewing speed		r/min	2	
	Outrigger extending and retracting time	Outrigger beam	Extending Simultaneously	s	30
			Retracting Simultaneously	s	20
	Outrigger jack	Extending Simultaneously	s	35	

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		Retracting Simultaneously	s	35
	Hoisting speed (single line, 4th layer)	Main winch	m/min	130
		Auxiliary winch	m/min	130
Noise	Exterior noise level		dB (A)	≤124
	Noise level at seated position		dB (A)	≤90

### Rated Load Charts of XCA55 (I type) Truck Crane

#### Rated Lifting Load Tables for Boom

(Lifting load in t, boom length, radius and lifting height in m)

Fully-extended outriggers of 7.3m with counterweight of 5.2t

R/L	11.6	15.71	19.82	26	32.16	38.33	44.5	17.76	23.93	30.1	36.27	21.88	28.05	34.22	40.38
3	55														
3.5	51.5	45	35					27				27			
4	48	45	35					27	24			27			
4.5	45	43	33.5	27				27	24			27			
5	41.5	41	32	27				27	24	18.6		27	24		
6	33.8	33.8	29	24.5	19.3			27	22	17.3		27	22	15.9	
7	27.6	27.6	25.9	22.2	19.3	14.3		26	20.6	15.8	11.5	26	20.8	15.9	
8	22.8	22.3	22	20	18.3	14.3		23.5	19.1	14.6	11.5	23.5	19.3	14.9	10.1
9	18.1	17.7	17.4	18	17	13.6	9.8	19.7	17.3	13.5	11	19.1	17.5	13.9	10.1
10		14.4	14.1	15.3	15.8	12.8	9.8	16.4	15.5	12.3	10.3	15.8	16	12.9	9.9
12		10	9.7	10.8	11.5	11.5	9.1	11.9	12.5	10.7	9.1	11.3	12	11.4	8.8
14			6.8	7.9	8.5	8.9	8.3	8.8	9.5	9.4	8	8.3	9	9.4	7.9
16			5	6.1	6.5	6.9	7.2		7.5	7.7	7	6.3	6.9	7.3	7.1
18				4.6	5.1	5.4	5.7		6	6.2	6.2	4.8	5.4	5.8	6.1
20				3.5	3.9	4.3	4.6		5	5.1	5.3		4.3	4.6	4.9
22				2.55	3.1	3.45	3.7			4.2	4.4		3.4	3.8	4
24					2.45	2.7	3			3.5	3.7		2.7	3.1	3.3
26					1.8	2.2	2.4			2.9	3.1			2.5	2.7
28					1.3	1.7	1.9				2.6			2	2.2
30						1.3	1.5				2.2			1.6	1.8
32							1.2								1.4
Parts of line	12	10	8	6	4	3	3	6	5	4	3	6	5	4	3
Telescoping ratio of each boom	0	50%	100%	100%	100%	100%	100%	0%	0%	0%	0%	50%	50%	50%	50%
	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%
	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%
	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%

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## Rated Lifting Load Tables for Boom

(Lifting load in t, boom length, radius and lifting height in m)

Fully-extended outriggers of 7.3m with counterweight of 6.5t															
R/L	11.6	15.71	19.82	26.1	32.16	38.33	44.5	17.76	23.93	30.1	36.27	21.88	28.05	34.22	40.38
3	55														
3.5	51.5	45	35					27				27			
4	48	45	35					27	24			27			
4.5	45	43	33.5	27				27	24			27			
5	41.5	41	32	27				27	24	18.6		27	24		
6	33.8	33.8	29	24.5	19.3			27	22	17.3		27	22	15.9	
7	27.6	27.6	25.9	22.2	19.3	14.3		27	20.6	15.8	11.5	26	20.8	15.9	
8	23.9	23.5	23.3	20	18.3	14.3		25	19.1	14.6	11.5	23.5	19.3	14.9	10.1
9	19	18.8	18.5	18	17	13.6	9.8	20.8	17.3	13.5	11	20.1	17.5	13.9	10.1
10		15.3	15.1	16.2	15.8	12.8	9.8	17.2	15.5	12.3	10.3	16.6	16	12.9	9.9
12		10.8	10.5	11.6	12.2	11.5	9.1	12.5	13.2	10.7	9.1	12	12.6	11.4	8.8
14			7.5	8.6	9.2	9.6	8.3	9.5	10.1	9.4	8	8.9	9.6	10	7.9
16			5.4	6.5	7	7.5	7.6		7.9	8.3	7	6.8	7.4	7.8	7.1
18				5	5.5	5.9	6.2		6.4	6.7	6.2	5.3	5.9	6.3	6.4
20				3.8	4.4	4.7	5		5.2	5.5	5.6		4.7	5.1	5.3
22				2.8	3.4	3.8	4.1			4.5	4.8		3.8	4.1	4.4
24					2.7	3.1	3.4			3.8	4		3	3.4	3.6
26					2.1	2.5	2.8			3.2	3.4			2.8	3
28					1.6	2	2.2				2.9			2.2	2.5
30						1.5	1.8				2.4			1.8	2
32							1.4								1.7
Parts of line	12	10	8	6	4	3	3	6	5	4	3	6	5	4	3
Telescoping ratio of each boom	0	50%	100%	100%	100%	100%	100%	0%	0%	0%	0%	50%	50%	50%	50%
	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%
	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%
	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%

We reserve the right to modify the design without notice for improvement

## Rated Lifting Load Tables for Boom

(Lifting load in t, boom length, radius and lifting height in m)

Fully-extended outriggers of 7.3m with counterweight of 9.5t															
R/L	11.6	15.71	19.82	26.1	32.16	38.33	44.5	17.76	23.93	30.1	36.27	21.88	28.05	34.22	40.38
3	55														
3.5	51.5	45	35					27				27			
4	48	45	35					27	24			27			
4.5	45	43	33.5	27				27	24			27			
5	41.5	41	32	27				27	24	18.6		27	24		
6	33.8	33.8	29	24.5	19.3			27	22	17.3		27	22	15.9	
7	27.6	27.6	27.6	22.8	19.3	14.3		26	20.6	15.8	11.5	26	20.8	15.9	
8	26.3	25.9	25.5	20.9	18.3	14.3		25	19.1	14.6	11.5	25	19.3	14.9	10.1
9	21.3	20.8	20.4	19	17	13.6	9.8	22.9	17.3	13.5	11	22.2	17.5	13.9	10.1
10		17.2	16.8	17.9	15.8	12.8	9.8	19	15.5	12.3	10.3	18.5	16	12.9	9.9
12		12.2	11.9	12.9	13.5	11.5	9.1	13.9	14.6	10.7	9.1	13.4	14.1	11.4	8.8
14			8.8	9.8	10.3	10.6	8.3	10.7	11.3	9.4	8	10.2	10.8	10	7.9
16			6.6	7.6	8.1	8.5	7.6		9	8.3	7	8	8.6	8.9	7.1
18				5.9	6.5	6.8	7		7.4	7.5	6.2	6.3	6.9	7.3	6.4
20				4.6	5.2	5.5	5.8		6	6.4	5.6		5.6	5.9	5.7
22				3.6	4.2	4.5	4.8			5.3	5.2		4.6	4.9	5.2
24					3.4	3.8	4			4.5	4.6		3.7	4.1	4.3
26					2.7	3.1	3.3			3.8	4			3.4	3.7
28					2.2	2.5	2.8				3.4			2.9	3.1
30						2.1	2.3				3			2.4	2.6
32							1.9								2.2
Parts of line	12	10	8	6	4	3	3	6	5	4	3	6	5	4	3
Telescoping ratio of each boom	0	50%	100%	100%	100%	100%	100%	0%	0%	0%	0%	50%	50%	50%	50%
	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%
	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%
	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%

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**Total Rated Lifting Load Tables for Jib**

(Lifting load in t, boom length, radius and lifting height in m)

Fully-extended outriggers of 7.3m, rated lifting load of jib with counterweight of 5.2t																		
Boom angle	9.2									16								
	0°			15°			30°			0°			15°			30°		
	Lifting load	Working radius	Lifting height	Lifting load	Working radius	Lifting height	Lifting load	Working radius	Lifting height	Lifting load	Working radius	Lifting height	Lifting load	Working radius	Lifting height	Lifting load	Working radius	Lifting height
78	5	12.9	53	3.3	14.8	52.2	2.5	16.5	51	3	15.1	60.3	2	18.7	58.2	1.4	21.8	55.9
75	4.7	15.5	52.2	3.1	17.5	51.3	2.4	19.1	50.1	2.8	18.2	58.7	1.8	21.7	57.1	1.3	24.6	54.6
72	4.5	18.2	51.2	3	20.1	50.3	2.3	21.6	48.9	2.6	21.1	57.6	1.6	24.5	55.8	1.2	27.3	53.3
70	3.9	19.9	50.5	2.7	21.7	49.6	2.2	23.2	48.1	2.5	23.1	56.8	1.5	26.4	54.9	1.2	29.1	52.2
65	3	24.1	48.5	2.5	25.8	47.4	1.9	27.2	45.8	2.2	27.8	54.5	1.3	30.9	52.4	1.1	33.4	49.4
60	1.9	28.1	46.1	1.7	29.7	44.8	1.6	31	43.2	1.6	32.3	51.9	1.2	35.2	49.4	1	37.4	46.3
55	1.1	31.9	43.4	1	33.4	42	1	34.5	40.2	0.9	36.5	48.8	0.8	39.2	46.1	0.8	41.1	42.8
50	0.6	35.4	40.4	0.5	36.8	38.8	0.5	37.7	36.9	0.5	40.4	45.3						

**Total Rated Lifting Load Tables for Jib**

(Lifting load in t, boom length, radius and lifting height in m)

Fully-extended outriggers of 7.3m, rated lifting load of jib with counterweight of 6.5t																		
Boom angle	9.2									16								
	0°			15°			30°			0°			15°			30°		
	Lifting load	Working radius	Lifting height	Lifting load	Working radius	Lifting height	Lifting load	Working radius	Lifting height	Lifting load	Working radius	Lifting height	Lifting load	Working radius	Lifting height	Lifting load	Working radius	Lifting height
78	5000	12.9	53	3300	14.8	52.2	2500	16.5	51	3000	15.1	60.3	2000	18.7	58.2	1400	21.8	55.9
75	4700	15.5	52.2	3100	17.5	51.3	2400	19.1	50.1	2800	18.2	58.7	1800	21.7	57.1	1300	24.6	54.6
72	4500	18.2	51.2	3000	20.1	50.3	2300	21.6	48.9	2600	21.1	57.6	1600	24.5	55.8	1200	27.3	53.3
70	3900	19.9	50.5	2700	21.7	49.6	2200	23.2	48.1	2500	23.1	56.8	1500	26.4	54.9	1200	29.1	52.2
65	3300	24.1	48.5	2500	25.8	47.4	1900	27.2	45.8	2200	27.8	54.5	1300	30.9	52.4	1100	33.4	49.4
60	2100	28.1	46.1	2000	29.7	44.8	1800	31	43.2	1800	32.3	51.9	1200	35.2	49.4	1000	37.4	46.3

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55	1300	31.9	43.4	1200	33.4	42	1200	34.5	40.2	1100	36.5	48.8	1000	39.2	46.1	800	41.1	42.8
50	800	35.4	40.4	700	36.8	38.8	700	37.7	36.9	600	40.4	45.3	600	42.9	42.5	500	44.5	39.1

**Total Rated Lifting Load Tables for Jib**

(Lifting load in t, boom length, radius and lifting height in m)

Fully-extended outriggers of 7.3m, rated lifting load of jib with counterweight of 9.5t																		
Boom angle	9.2									16								
	0°			15°			30°			0°			15°			30°		
	Lifting load	Working radius	Lifting height	Lifting load	Working radius	Lifting height	Lifting load	Working radius	Lifting height	Lifting load	Working radius	Lifting height	Lifting load	Working radius	Lifting height	Lifting load	Working radius	Lifting height
78	5	12.9	53	3.3	14.8	52.2	2.5	16.5	51	3	15.1	60.3	2	18.7	58.2	1.4	21.8	55.9
75	4.7	15.5	52.2	3.1	17.5	51.3	2.4	19.1	50.1	2.8	18.2	58.7	1.8	21.7	57.1	1.3	24.6	54.6
72	4.5	18.2	51.2	3	20.1	50.3	2.3	21.6	48.9	2.6	21.1	57.6	1.6	24.5	55.8	1.2	27.3	53.3
70	3.9	19.9	50.5	2.7	21.7	49.6	2.2	23.2	48.1	2.5	23.1	56.8	1.5	26.4	54.9	1.2	29.1	52.2
65	3.7	24.1	48.5	2.5	25.8	47.4	1.95	27.2	45.8	2.2	27.8	54.5	1.3	30.9	52.4	1.1	33.4	49.4
60	2.7	28.1	46.1	2.1	29.7	44.8	1.8	31	43.2	2	32.3	51.9	1.2	35.2	49.4	1	37.4	46.3
55	1.8	31.9	43.4	1.6	33.4	42	1.6	34.5	40.2	1.6	36.5	48.8	1.1	39.2	46.1	0.8	41.1	42.8
50	1.2	35.4	40.4	1.1	36.8	38.8	1.1	37.7	36.9	1	40.4	45.3	0.9	42.9	42.5	0.6	44.5	39.1

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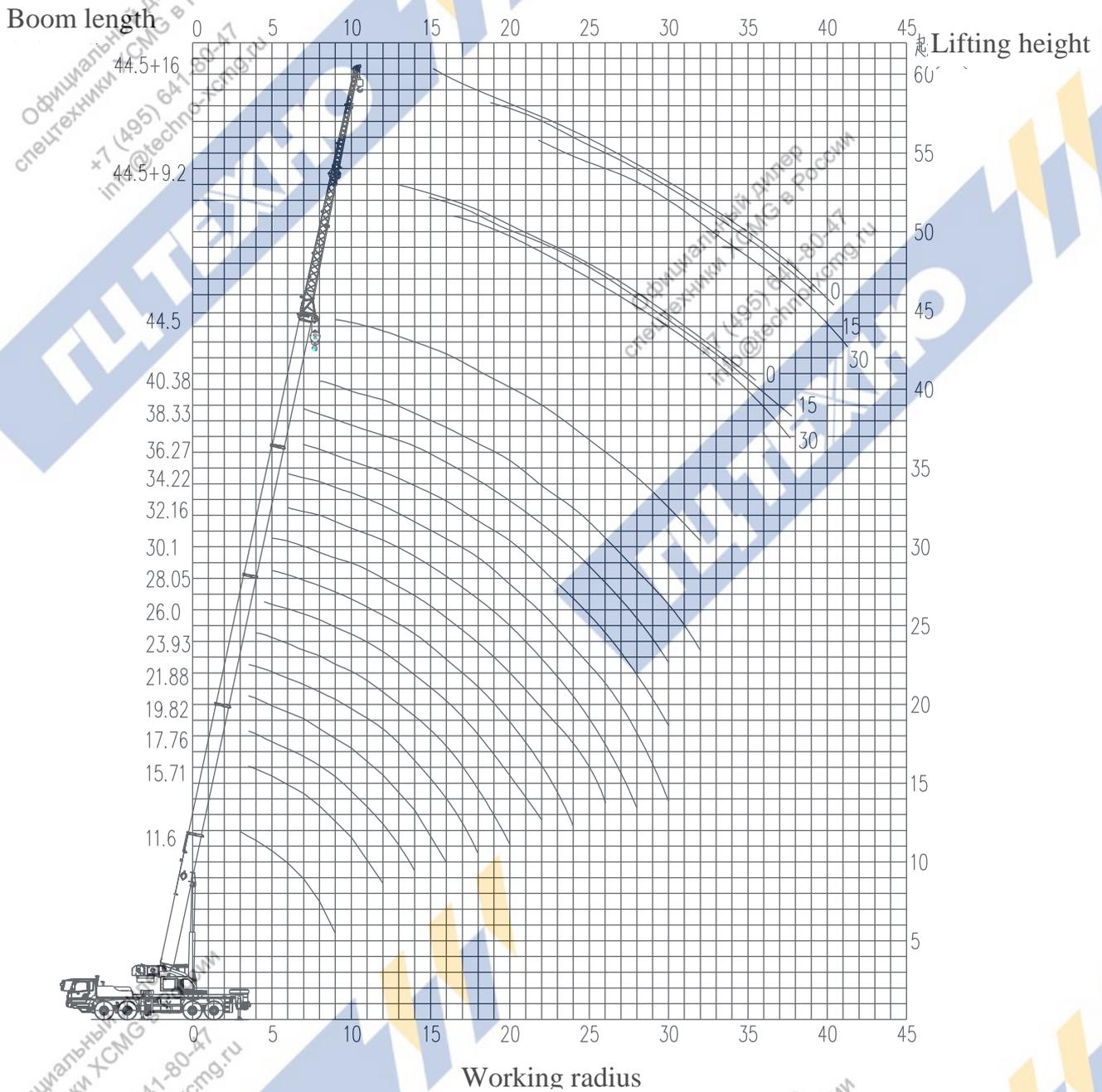
**Notes on the rated load charts:**

- 1) The total rated loads given in the rated load charts are the maximum lifting capacity when the crane is set up on firm and level ground, which includes the weight of the hook block and slings.  
The working radius shown in the rated load charts is the radius when the load is lifted off the ground, and it is the actual value including loaded boom deflection which should be taken into consideration before lifting.
- 2) A lifting operation is permissible only when the wind force is below grade 5 (instantaneous wind speed is 14.1 m/s, wind pressure is 125 N/m<sup>2</sup>).
- 3) Before beginning lifting operation, the operator should know the weight of the load to be lifted and its working range, and then select proper working conditions. Never operate the crane beyond the limit shown in the chart. Use the lower value from the chart when the boom length or working radius is between the range of values.
- 4) Observe the boom angle limit. Never operate the crane with the boom angle beyond the recommended limit even if a load is not being carried. Otherwise, the crane will tip.
- 5) The total rated load for single top is the same as that for the boom, and the max. lifting load should not exceed 5000 kg.
- 6) Total rated load shown in tables is the value without the jib attached. When operating the boom with the jib attached, at least 2000 kg must be deducted according to the actual conditions.

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### Lifting Height Chart

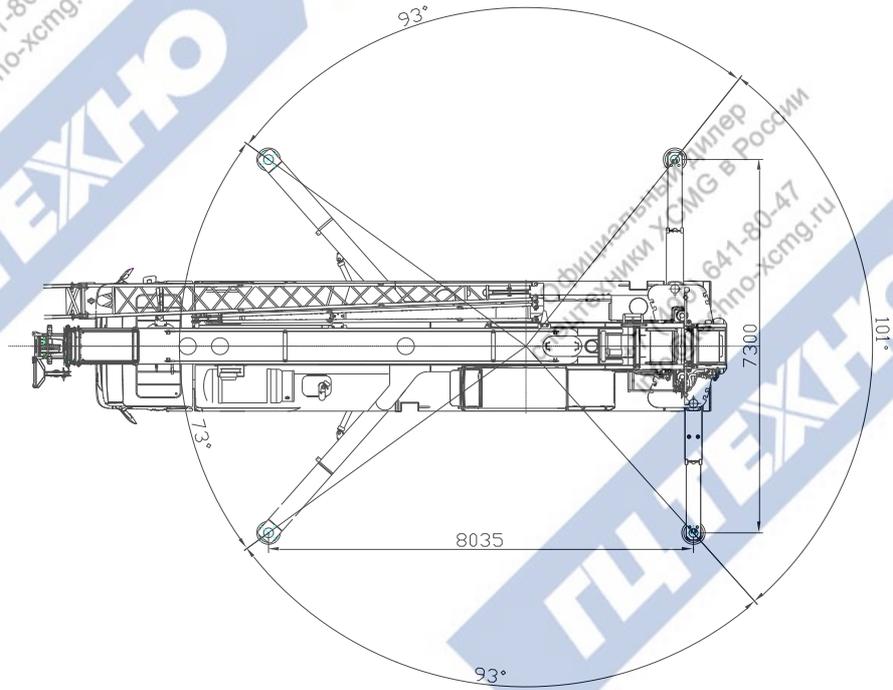


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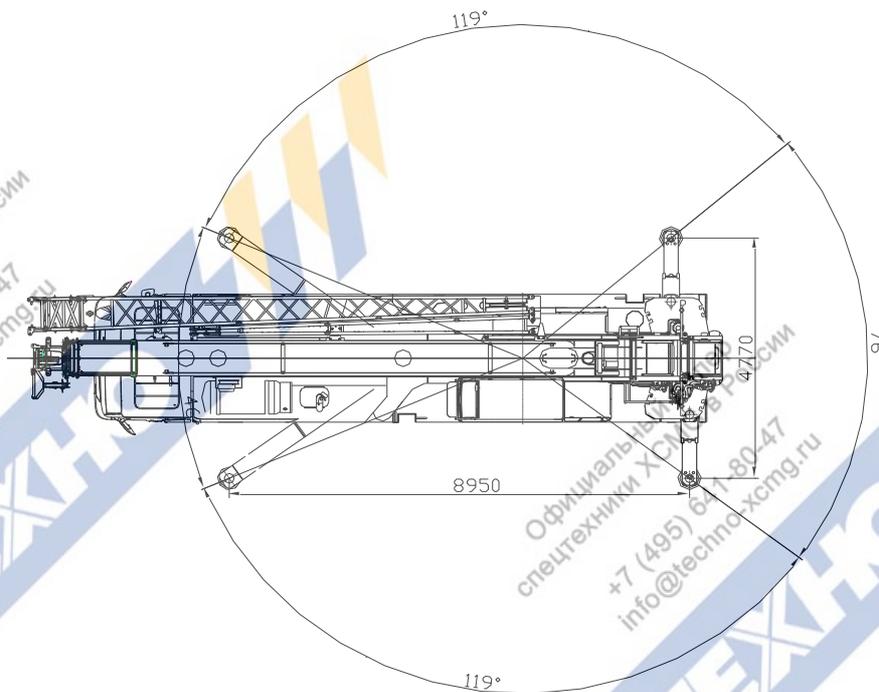
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### Working Areas of Crane (on fully-extended outriggers)



### (on half-extended outriggers)



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