

XCR90 越野轮胎起重机 / Rough Terrain Crane

技术规格书

Technical specifications

Официальный дилер
спецтехники XCMG в России
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90t



48m



63.1m



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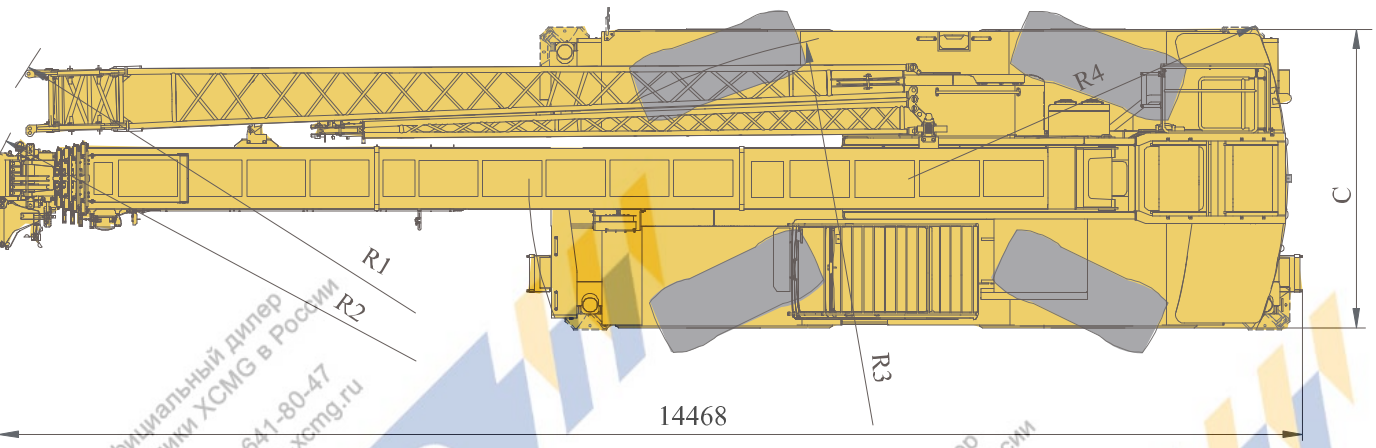
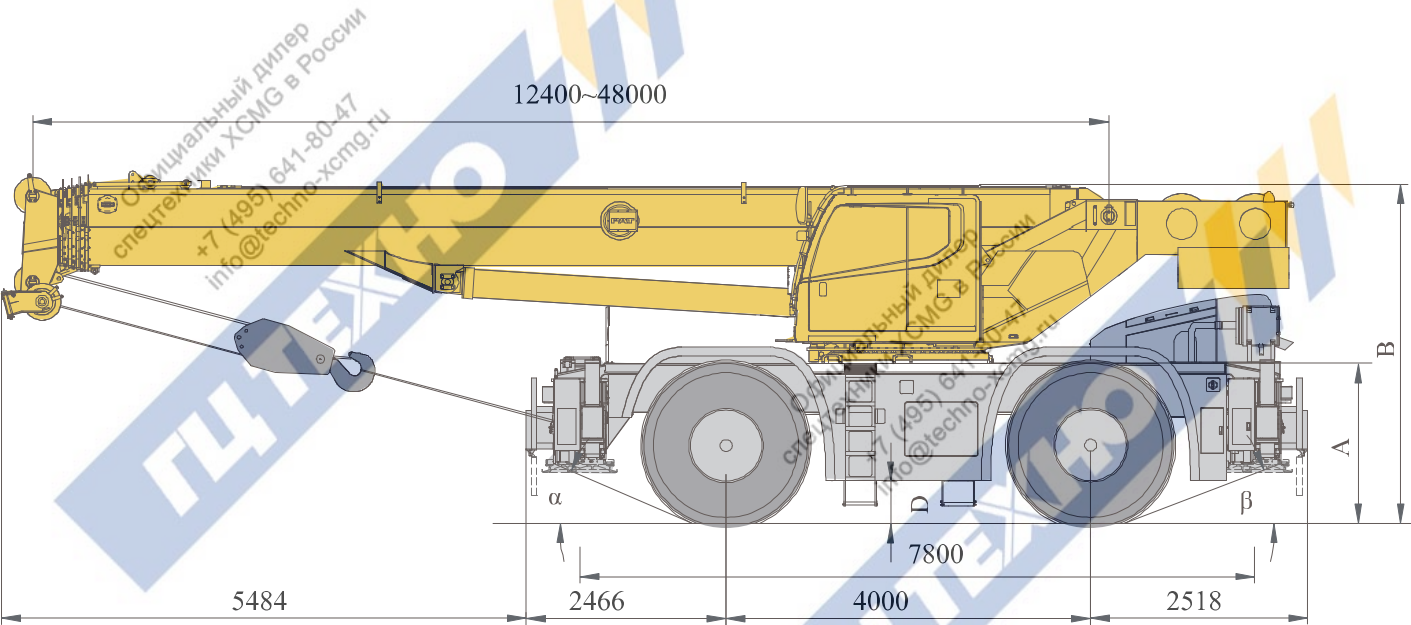
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尺寸参数 Dimensions



	α	β	A	B	C	D	R1	R2	R3	R4
29.5R25	24°	24°	1896	3898	3280	550	11264	11589	6500	4544

技术规格

Technical specifications

			Hydraulic system	A dual-variable displacement pump, used for hoisting, elevating and telescoping operations, and a gear pump, used for slewing, outrigger, steering and braking operations; a load sensitive proportional multi-way change valve is used as main valve; an independent hydraulic oil radiator. Tank capacity: approx. 1057 L.	●
Boom	1 basic boom and 4-telescoping sections, U-shape cross section welding structure. Double cylinder plus ropes telescoping mechanism. 6 pulleys on boom head are standard. Boom length:12.4 m~48 m.	●	Operating mode	Hydraulic controlled pilot operation system is equipped with two levers controlling the main movements of the crane.	●
Jib	Two-section lattice structure. Three offset angles of 0° , 15° and 30° are available. It is stowed along the side of the boom. Jib length 10.5m~17.5 m.	●	Electrical System	24 V DC, two sets of 12 V battery in series.	●
Frame	Made of high strength fine grained steel, welded torsion-resistant frame type construction with large cross-section, high load-bearing capacity.	●	Main winch system	The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake and a balance valve equipped.	●
Outrigger	4 outriggers, H-shaped arrangement, which are controlled by electrical and hydraulic and located at both sides of chassis frame.	●	Auxiliary winch system	The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake and a balance valve equipped.	○
Engine	SC9DK260.1G3, in line, six-cylinder water-cooled compression ignition diesel engine, manufactured by Shangchai, with rated power of 192/2000(kW/(r/min)), max. torque of 1110/(1200-1600)(N.m/(r/min)), off-road EU Stage IIIA emission standard compliant Fuel tank capacity: approx. 305 L	●	Slewing system	Single-row four-point ball contact slewing ring, driven by a hydraulic motor through planetary gear reducer, and with a normally closed brake fitted.	●
Transmission	6WG210, automatic transmission from ZF Germany, with 6 forward and 3 reverse gears	●	Operator's cab	Tiltable cab, with sliding door and adjustable seat equipped. It is equipped with safe glass and roof protective grille. Sun shade is available for windshield and roof window. Heater and air conditioner, radio, 12 V and 24 V DC outlets are standard.	●
Axles	Both front and rear axles are for driving and steering, and the axles have features of great load bearing capacity	●	Safety devices	Hydraulic balance valve, hydraulic relief valve, hydraulic double-way valve and LMI. Lowering limiter is equipped in winch to prevent rope over-releasing. Anti-two block is fitted on the boom head to prevent rope over-winding.	●
Suspensions	Front axle is rigidly connected with frame; rear axle is equipped with swing hydraulic suspensions, which have cushioning function when driving on roads; the rear suspension cylinder may be locked to rigid state so as to meet the requirement for travel with a load suspended, increasing operation stability.	●	Counterweight	10 t	●
Tires	4 specialized off-road, large bearing capacity. Tire specifications: 29.5R25.	●	Hook Block	1.5t.	○
Steering	Front axle independent steering, tight turning radius steering, crab walk steering and rear axle independent steering modes are available. The steering angle can be self-adjusted when changing mode.	●	<p>Product parts list is as mentioned above. Please refer to the product quotation for specific parts.</p> <p>Symbol explanation:</p> <p>● — it means the standard configuration;</p> <p>○ — it means the optional configuration.</p>		
Brakes	Service brake: double-circuit hydraulic disc brake, acting on all wheels. Automatically braking and alarm are available when the pressure in braking system is too low. Parking brake: spring-loaded brake, acting on front axles, hydraulic-released independent disc brake.	●			

重量 Weight



车桥
Axle

	1	2	总重量 Total weight
t	28.683	24.74	53.423 (10t平衡重 10t counterweight)
	27.49	27.433	54.923 (10t平衡重+选配 1.5t平衡重 10t counterweight + Optional 1.5t counterweight)



吊钩
Hook

倍率
No. of lines

吊钩重量
Weight (kg)

备注
Remarks

55t

8

470

单钩 Single hook

7t

1

210

单钩 Single hook

作业速度 Working speeds



29.5 R 25



34.8



65%



作业机构
Drive

作业速度
Working speed

最大单绳拉力
Max. single line pull

钢丝绳直径/长度
Rope diameter/ length



0-145

m/min, 空载, 第四层
m/min, no load, 4th layer

78kN

20mm/240m



0-90

m/min, 空载, 第四层
m/min, no load, 4th layer

78kN

20mm/150m



0-2r/min



从-1.5°抬起至80°约55s
Approx. 55s for boom elevation from -1.5° to 80°

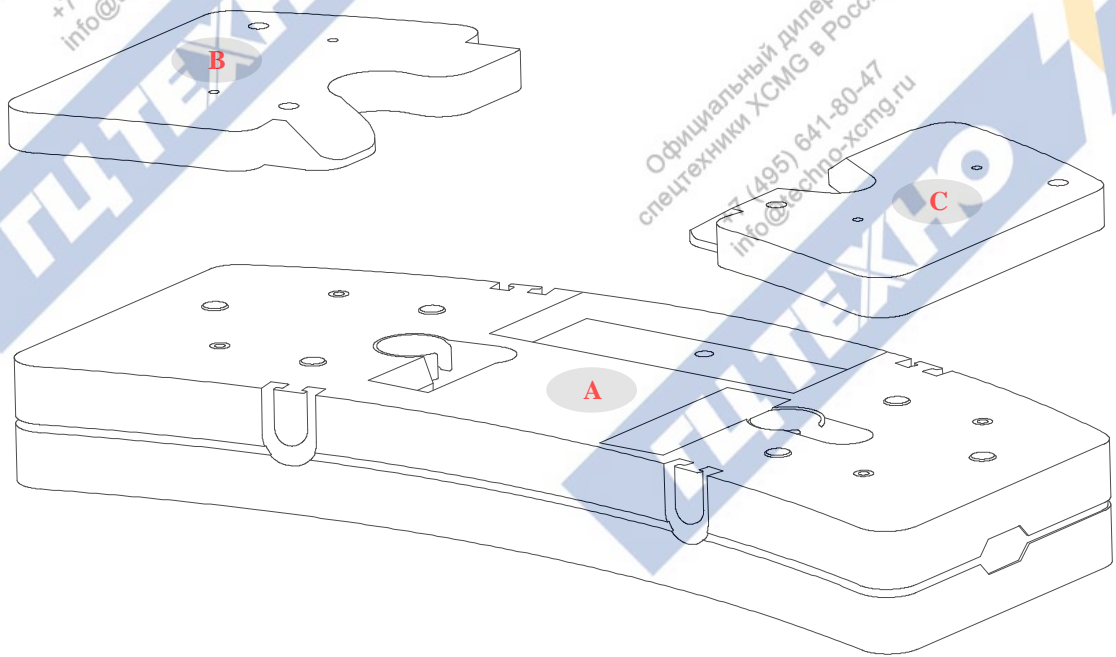


从12.4m伸出至48m约110s
Approx. 110s for boom extension from 12.4m to 48m

平衡重 Counterweight

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平衡重 Counterweight	A	B (选配optional)	C (选配optional)
尺寸 (长×宽×高) mm Size (L×W×H) mm	3260×1539×550	1372×980×124	1372×980×124
重量 t Weight t	10	0.75	0.75
工况模式 Working mode	0t	10t	10t+1.5t (选配 optional)
组合形式 Combinations	—	A	A+B+C

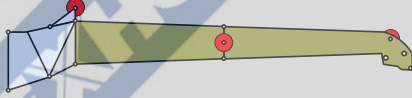
臂架组合方案

Boom / Jib combinations

副臂 - 10.5m
Jib - 10.5m



副臂 - 17.5m
Jib - 17.5m



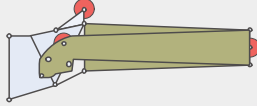
部件
Component

结构形式
Structure

尺寸 (长×宽×高) mm
Size (L×W×H) mm

重量 kg
(Weight kg)

一节、二节副臂总成+连接架
First and second jib section
assembly + Connecting bracket



折叠 (Folded) : 11100×900×1350

1330

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臂架组合方案

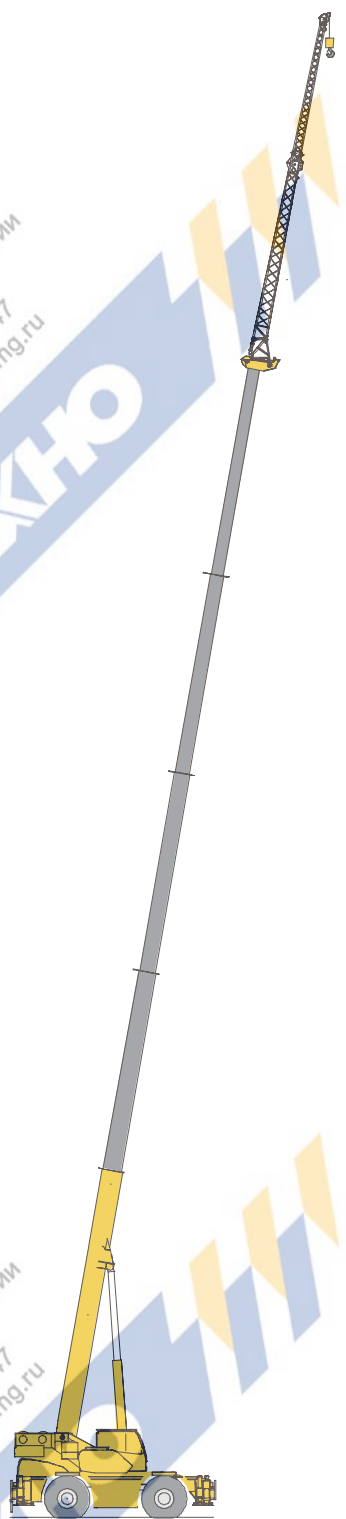
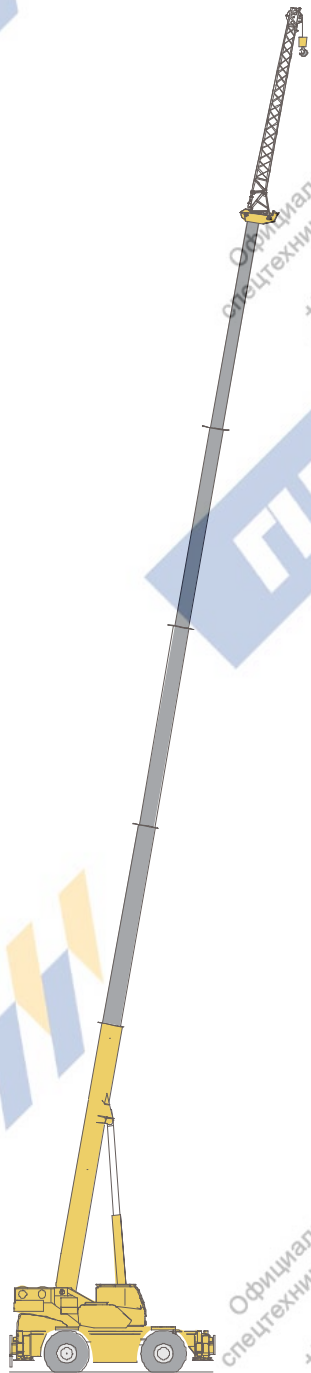
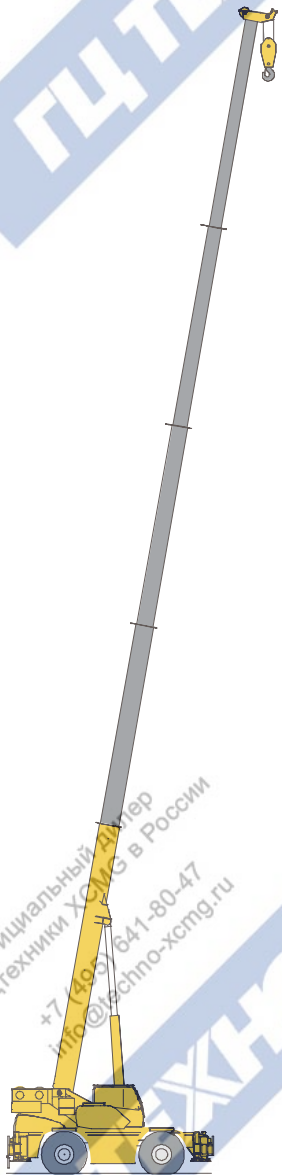
Boom / Jib combinations

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主臂
Telescopic boom

主臂 + 一节副臂
Telescopic boom + First jib section

主臂 + 两节副臂
Telescopic boom + First and second jib sections

12.4~48m

48m+10.5m

48m+17.5 m

起升高度曲线图 Lifting heights

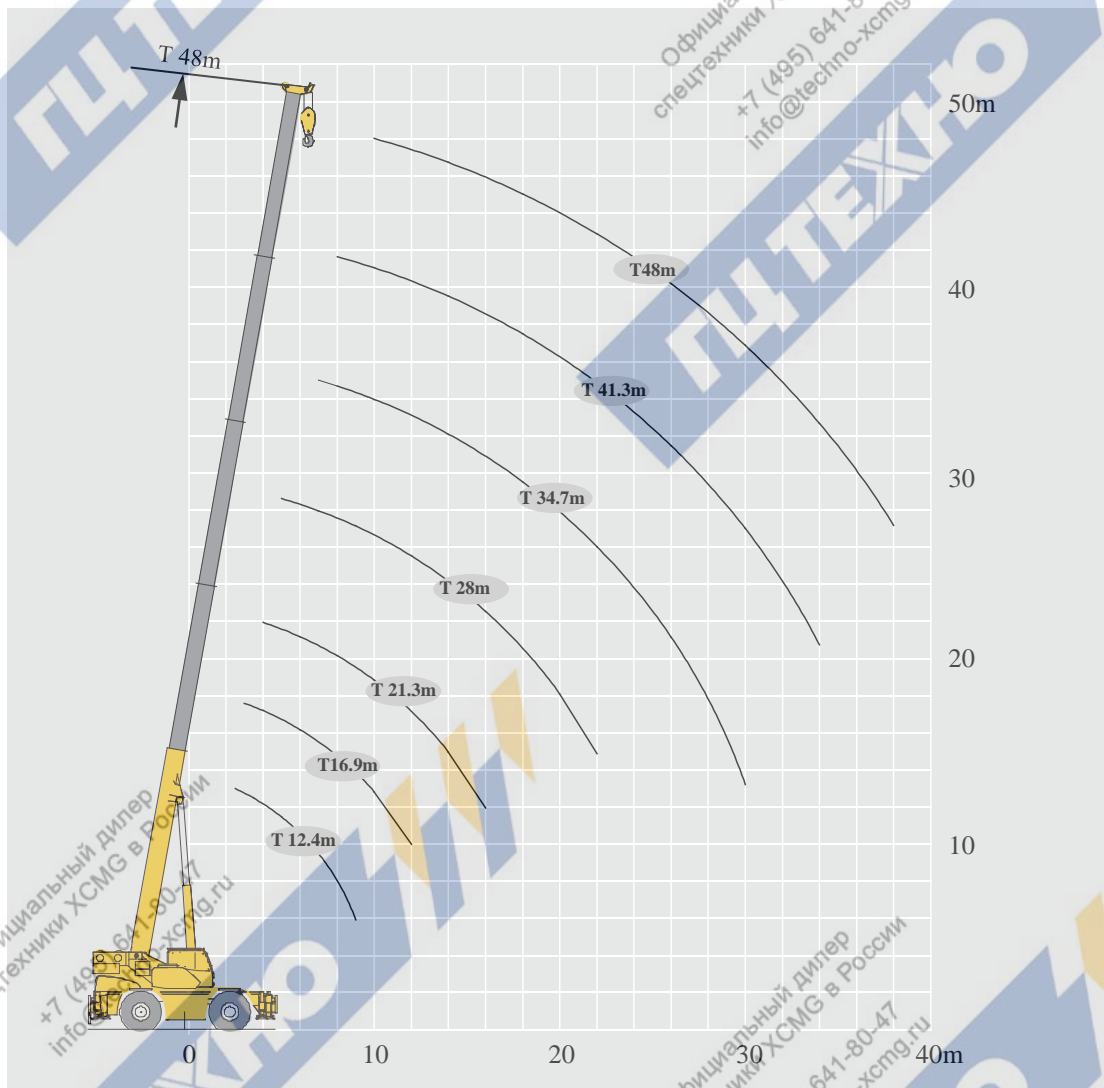
主臂
Boom

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起重性能表

Lifting capacities

T 12.4~48m



m	Lifting Capacity (t)															m
	12.4m	16.9m	21.3m	28m	34.7m	41.3m	48m	19.1m	25.8m	32.4m	39.1m	23.5m	30.2m	36.9m	43.6m	
2.5	90.0*															2.5
3	80.0	63.3														3
3.5	75.0	63.3														3.5
4	72.4	63.3	46.0					35.1								4
5	57.9	57.9	45.0	33.5				35.0	35.3			34.8				5
6	48.3	48.3	40.0	33.5				35.0	33.9	23.3		34.8	32.4			6
7	41.4	41.0	38.0	31.9	25.4			35.0	31.6	21.9		34.8	29.7			7
8	35.0	35.0	36.4	29.5	23.3	17.3		35.0	29.7	20.7	16.1	34.8	27.9	21.0		8
9	28.8	28.0	29.5	27.5	21.9	17.3		33.2	27.9	19.5	15.4	32.3	26.7	20.1	13.1	9
10		24.0	23.7	25.3	20.5	17.2	11.4	26.7	26.4	18.4	14.8	26.2	25.3	19.2	13.0	10
12		16.6	16.1	17.7	18.3	16.6	11.4	18.9	20.1	16.7	13.6	18.4	19.2	17.6	12.5	12
14			11.8	13.1	14.0	14.4	11.4	14.2	14.9	15.1	12.1	13.7	14.5	15.1	12.0	14
16			8.7	9.9	10.8	11.3	10.3		11.7	12.4	10.8	10.5	11.3	11.9	10.6	16
18				7.7	8.6	9.1	9.1		9.4	9.8	9.8	8.3	8.9	9.6	9.5	18
20				6.1	6.7	7.3	7.7		7.6	8.0	8.6		7.3	7.5	8.1	20
22				4.8	5.4	6.0	6.3			6.7	6.9		5.8	6.3	6.7	22
24					4.5	4.9	5.3			5.6	5.8		4.8	5.4	5.6	24
26					3.6	3.8	4.4			4.7	4.9		3.9	4.5	4.8	26
28					2.6	3.2	3.6				4.3			3.7	4.0	28
30					2.0	2.5	3.0				3.6			3.0	3.4	30
32						2.0	2.3				3.1				2.7	32
34						1.6	1.9								2.2	34
36							1.4								1.7	36
38							1.0								1.4	38
二节臂 2nd	0	50%	100%	100%	100%	100%	100%	0%	0%	0%	0%	50%	50%	50%	50%	二节臂 2nd
三节臂 3rd	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%	三节臂 3rd
四节臂 4th	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%	四节臂 4th
五节臂 5th	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%	五节臂 5th

* 需使用臂端单滑轮与主臂滑轮组合，13倍率。

The lifting load with a * followed is available only when the boom sheave block is used together with the single top, with 13 parts of line.

起重性能表

Lifting capacities

T 12.4~48m



m	12.4m	16.9m	21.3m	28m	34.7m	41.3m	48m	19.1m	25.8m	32.4m	39.1m	23.5m	30.2m	36.9m	43.6m	m
2.5	90.0*															2.5
3	80.0	63.3														3
3.5	75.0	63.3														3.5
4	72.4	63.3	46.0					35.1								4
5	57.9	57.9	45.0	33.5				35.0	35.3			34.8				5
6	48.3	48.3	40.0	33.5				35.0	33.9	23.3		34.8	32.4			6
7	41.4	41.0	38.0	31.9	25.4			35.0	31.6	21.9		34.8	29.7			7
8	35.0	35.0	35.0	29.5	23.3	17.3		35.0	29.7	20.7	16.1	34.8	27.9	21.0		8
9	28.7	28.0	27.9	27.5	21.9	17.3		31.5	27.9	19.5	15.4	30.6	26.7	20.1	13.1	9
10		22.4	22.0	23.9	20.5	17.2	11.4	25.3	26.4	18.4	14.8	24.5	25.3	19.2	13.0	10
12		15.3	14.9	16.7	18.3	16.6	11.4	17.7	19.0	16.7	13.6	16.7	18.1	17.6	12.5	12
14			10.6	12.3	14.0	13.7	11.4	13.2	14.1	14.8	12.1	12.2	13.6	14.2	12.0	14
16			7.7	9.2	10.8	10.6	10.3		11.0	11.7	10.8	9.3	10.6	11.1	10.6	16
18				7.1	7.8	8.4	8.8		8.8	9.2	9.7	7.0	8.2	8.9	9.3	18
20				5.5	6.2	6.8	7.2		7.2	7.5	8.1		6.7	7.0	7.6	20
22				4.2	4.9	5.5	5.9			6.2	6.3		5.3	5.8	6.3	22
24					3.9	4.5	4.8			5.2	5.3		4.3	4.8	5.2	24
26					3.1	3.4	4.0			4.4	4.4		3.5	4.0	4.4	26
28					2.4	2.8	3.3				3.9			3.2	3.6	28
30					1.8	2.2	2.7				3.2			2.6	3.0	30
32						1.8	1.9				2.8				2.3	32
34						1.3	1.7								1.9	34
36							1.2								1.5	36
38							0.9								1.1	38
二节臂 2nd	0	50%	100%	100%	100%	100%	100%	0%	0%	0%	0%	50%	50%	50%	50%	二节臂 2nd
三节臂 3rd	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%	三节臂 3rd
四节臂 4th	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%	四节臂 4th
五节臂 5th	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%	五节臂 5th

* 需使用臂端单滑轮与主臂滑轮组合，13倍率。

The lifting load with a * followed is available only when the boom sheave block is used together with the single top, with 13 parts of line.

起升高度曲线图 Lifting heights

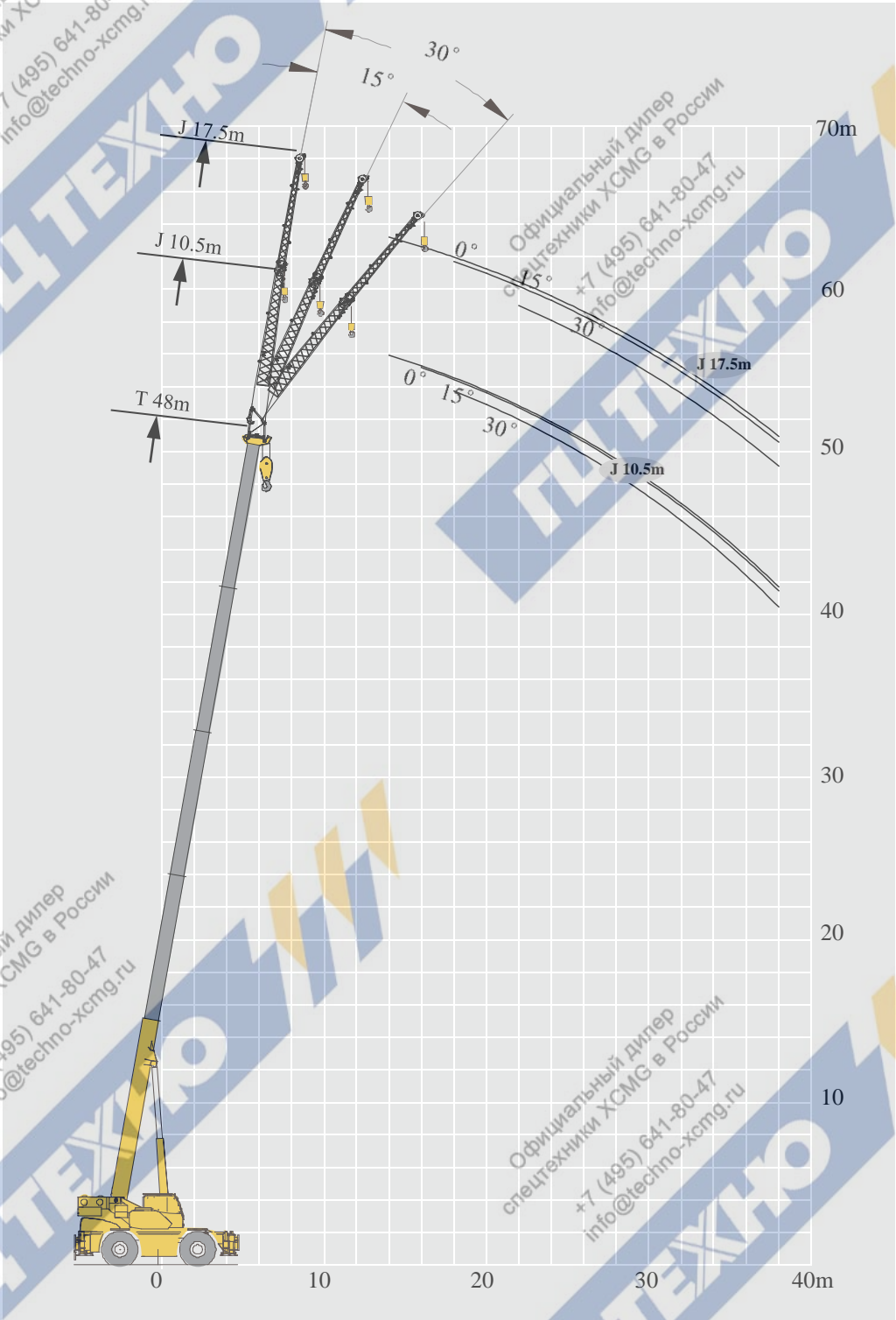
副臂
Jib

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起重性能表

Lifting capacities

J 10.5-17.5m

48m		10.5m		7.8m×7.7m		360°		10t	
48 m+10.5m									
0°									
15°									
30°									
14	5.5								14
16	5.5								16
18	5.5							2.6	18
20	5.5							2.5	20
22	5.2							2.4	22
24	4.5							2.2	24
26	3.8							2.1	26
28	3.1							2.0	28
30	2.5							2.0	30
32	2.0							1.8	32
34	1.6							1.7	34
36	1.2							1.4	36
38	0.9							1.2	38

48m		17.5m		7.8m×7.7m		360°		10t	
48 m+17.5m									
0°									
15°									
30°									
14	2.8								14
16	2.8								16
18	2.8								18
20	2.8								20
22	2.8							1.1	22
24	2.8							1.1	24
26	2.7							0.9	26
28	2.5							0.9	28
30	2.3							0.9	30
32	2.0							0.7	32
34	1.6							0.7	34
36	1.3							0.7	36
38	1.0							0.7	38

符号标识

Description of symbols



常规标识

Symbol glossary

	支腿 Outriggers		车桥 Axle
	工作幅度 Radius		行驶速度 Driving speed
	吊臂仰角 Boom angle		爬坡能力 Grade ability
	吊臂长度 Boom length		轮胎 Tires
	吊钩 Hook block		平衡重 Counterweight
	360°全回转 360° rotation		上车 Superstructure
	卷扬 Winch		越野轮胎起重机 Rough terrain crane

起重作业标识

Crane specific symbols

	主臂 Boom		副臂 Jib
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主要技术参数表

Table of main technical parameters

类别 Category	项目 Item	单位 Unit	参数 Parameter		允差范围 Allowance	
尺寸参数 Dimensions	外形尺寸 (长×宽×高) Outline size (length×width×height)	mm	14468×3280×3898		±1%	
	轴距 Wheel base	mm	4000		±1%	
	轮距 (前/后) Track (Front/ Rear)	mm	2520/2520		±1%	
	前悬/后悬 Front/ Rear overhang	mm	2466/2383		±1%	
	前伸/后伸 Front/ Rear extension	mm	5484/135		±1%	
重量参数 Weight	最大允许总质量 Total vehicle mass in travel configuration	kg	53498 (10t平衡重) (10t counterweight)	54998 (11.5t平衡重) (11.5t counterweight)	±3%	
	轴荷 Axle load	一轴 1st axle	kg	28723	27530	±3%
		二轴 2nd axle	kg	24775	27468	±3%
动力参数 Power	发动机型号 Engine model	—	SC9DK260.1G3		—	
	额定功率/转速 Engine rated power/rpm	kW/(r/min)	192/2000		—	
	最大输出扭矩/转速 Engine rated torque/rpm	N.m/(r/min)	1110/ (1200~1600)		—	
行驶参数 Travel	最高车速 Max. travel speed	km/h	≥34.8		—	
	最低稳定车速 Min. travel speed	km/h	2		—	
	最小转弯直径 Min. turning diameter	m	≤13		—	
	最小离地间隙 Min. ground clearance	mm	550		±1%	
	接近角 Approach angle	°	24		±1°	
	离去角 Departure angle	°	24		±1°	
	制动距离 (制动初速度为 24km/h) Braking distance (at 24 km/h)	m	≤9		—	
最大爬坡能力 Max. grade ability	%	≥65		—		

主要技术参数表

Table of main technical parameters

类别 Category	项目 Item		单位 Unit	参数 Parameter	允差范围 Allowance	
主要性能参数 Main performance	最大额定总起重量 Max. total rated lifting capacity		t	90	±5%	
	最小额定工作幅度 Min. rated working radius		m	2.5	±1%	
	转台尾部回转半径 Turning radius at turntable tail	平衡重处 Counterweight	mm	4544	±1%	
	最大起重力矩 Max. load moment	基本臂 Base boom	kN.m	2840	±5%	
		最长主臂 Fully-extended boom	kN.m	1615	±5%	
	支腿跨距 Outrigger span	纵向 Longitudinal	m	7.8	±1%	
		横向 Lateral	m	7.7	±1%	
	起升高度 Hoist height	基本臂 Base boom	m	13	±1%	
		最长主臂 Fully-extended boom	m	48	±1%	
		最长主臂+副臂 Fully-extended boom + Jib	m	63.1	±1%	
	起重臂长度 Boom length	基本臂 Base boom	m	12.4	±1%	
		最长主臂 Fully-extended boom	m	48	±1%	
		最长主臂+副臂 Fully-extended boom + Jib	m	65.5	±1%	
	副臂安装角 Jib offset angle		°	0°、15°、30°	—	
工作速度参数 Working speed	起重臂起臂时间 Boom raising time		s	≤55	—	
	起重臂全伸时间 Boom fully extending time		s	≤110	—	
	最大回转速度 Max. slewing speed		r/min	≥2	—	
	支腿收放时间 Outrigger extending and retracting time	水平支腿 Outrigger beam	收 Retracting	s	≤35	—
			放 Extending	s	≤40	—
		垂直支腿 Outrigger jack	收 Retracting	s	≤40	—
			放 Extending	s	≤55	—
起升速度(单绳,第四层,空载) Hoisting speed (single line, 4th layer, no load)	主起升机构 Main winch		m/min	≥145	—	
	副起升机构 Auxiliary winch		m/min	≥90	—	

注意事项

Notes

1. 表中额定总起重量值,是在平整的坚固地面上本起重机能够保证的最大总起重量,包括吊钩和吊具的重量,所以为了估算重物重量,必须减去上述的装置重量。
2. 表中的工作幅度为起吊重物离地时起重机到起重回转轴线的水平距离,是包括起重臂变形量在内的实际值,因而起吊前应考虑起重臂变形量。
3. 只允许在5级(瞬时风速14.1m/s,风压125N/m²)风以下进行作业。
4. 吊重前操作者必须对物体的重量和工作范围了解后选择合适的作业工况,严禁超出表中的数值。幅度及臂长在相邻两个数值之间时,应依据两个数值中较小值确定起重作业。
5. 应按主臂仰角范围作业,即使是空载,也不应使主臂仰角处于范围外,谨防整机倾翻。
6. 表中的主臂长度应要按照每节臂的伸缩要求进行伸出。

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 weight of above-mentioned devices should be deducted from the rated lifting load.
2. 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. Take boom deflection into consideration before beginning a lifting operation.
3. 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/m²).
4. 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.
5. 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.
6. The boom should be extended according to the telescoping code shown by digits, which means the percentage of boom sections extended.

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