

XCR120越野轮胎起重机/Rough Terrain Crane

技术规格书

Technical specifications

Официальный дилер
спецтехники XCMG в России
+7 (495) 641-80-47
info@techno-xcmg.ru



120t



50m



64.8m

Официальный дилер
спецтехники XCMG в России
+7 (495) 641-80-47
info@techno-xcmg.ru



Официальный дилер
спецтехники XCMG в России
+7 (495) 641-80-47
info@techno-xcmg.ru

Официальный дилер
спецтехники XCMG в России
+7 (495) 641-80-47
info@techno-xcmg.ru

目录 Contents

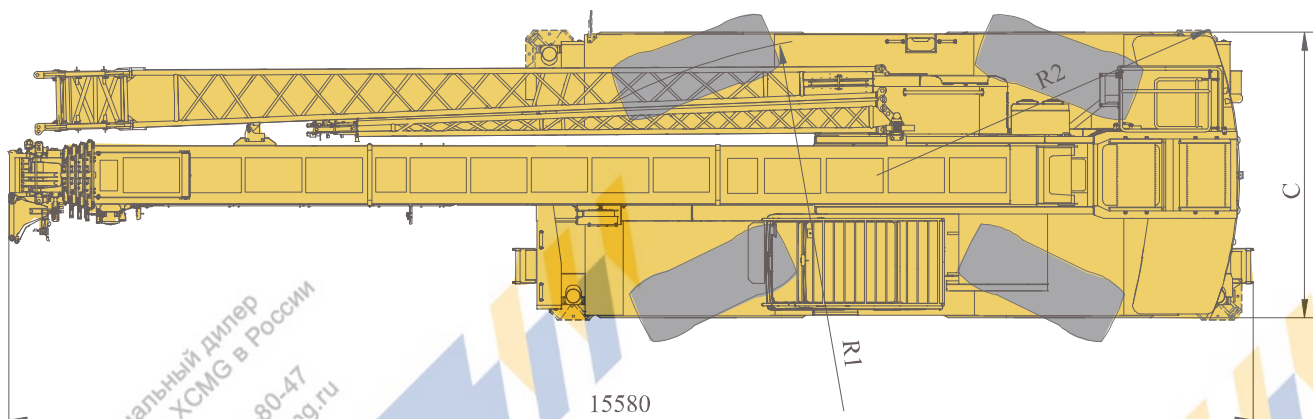
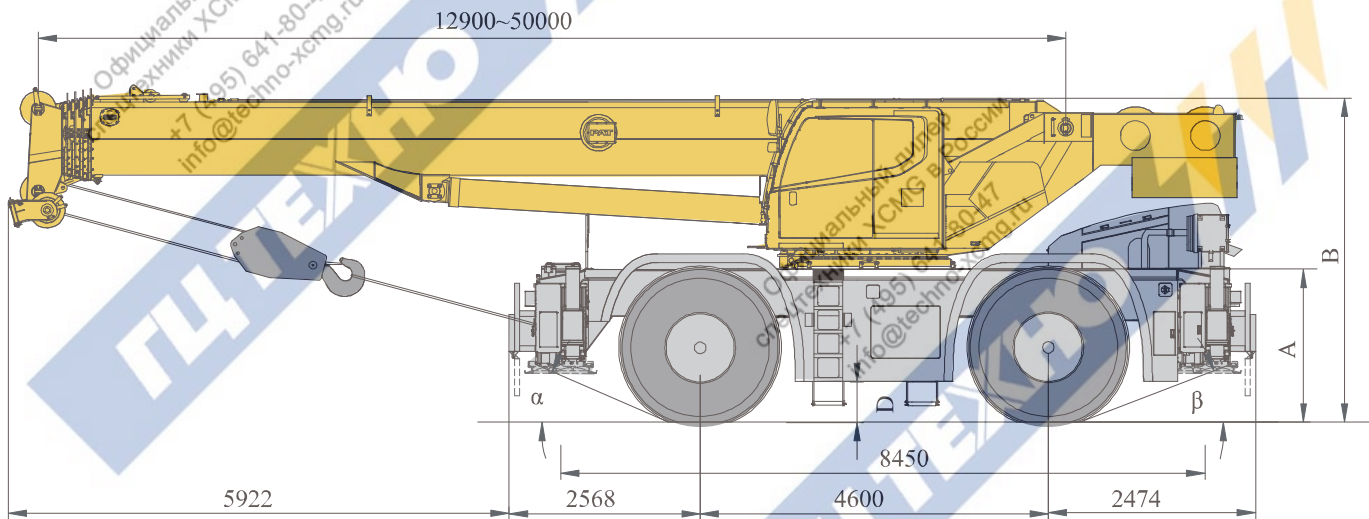
目录 Contents

尺寸参数 Dimensions	3
技术规格 Technical specifications	4-5
重量/作业速度 Weight/Working speeds	6
平衡重 Counterweight	7
臂架组合方案 Boom/Jib combinations	8-10
符号标识 Description of symbols	11
主要技术参数表 Table of main technical parameters	12-13
注意事项 Notes	14

Официальный дилер
спецтехники XCMG в России
+7 (495) 641-80-47
info@techno-xcmg.ru

Официальный дилер
спецтехники XCMG в России
+7 (495) 641-80-47
info@techno-xcmg.ru

尺寸参数 Dimensions



		α	β	A	B	C	D	R1	R2
875/65R29	16t	21°	22°	2050	3980	3490	574	8400	4890
875/65R29	16t+7t	21°	22°	2050	3980	4700	574	8400	4890

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. 1225L.	●
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:12.9 m~ 50 m.	●	Operating mode	Electrically controlled operating 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 10.8m~18.3 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	SC9DF300G3, in line, six-cylinder water-cooled compression ignition diesel engine, manufactured by Shangchai, with rated power of 221/2200(kW/(r/min)), max. torque of 1300/(1300-1600)(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	6WG260, 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	16 t.	●
Tires	4 specialized off-road, large bearing capacity. Tire specifications: 875/65R29.	●	Hook Block	7t.	○
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.	●	Hook Block	60t hook block, 7 t hook block.	●
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.	●		110t hook block.	○

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

Symbol explanation:

- — it means the standard configuration;
- — it means the optional configuration.

重量 Weight



车桥
Axle

	1	2	总重量 Total weight
t	35.167	34.881	70.048 (16t平衡重 16t counterweight)
	32.759	44.290	77.049 (16t平衡重+选配7t 平衡重 16t counterweight +Optional 7t counterweight)



吊钩
Hook

倍率
No. of lines

吊钩重量
Weight(kg)

备注
Remarks

110t	14	1080	双钩Double hook
60t	8	470	单钩Single hook
7t	1	210	单钩Single hook

作业速度 Working speeds



875/65R29



30



80%



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

99kN

22mm/250m



0-90 m/min, 空载, 第三层
m/min, no load, 3th layer

71kN

22mm/150m



0-2r/min



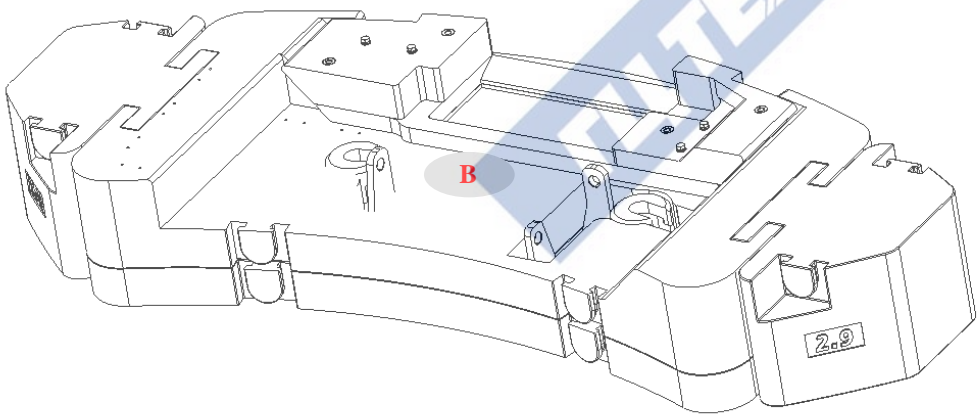
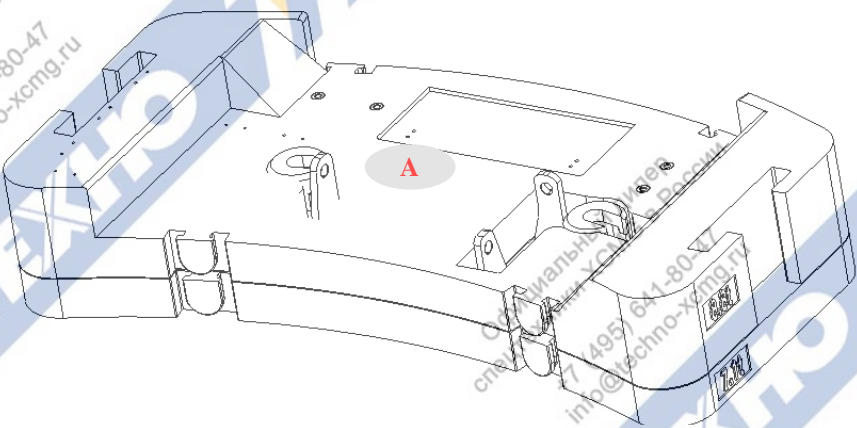
从20°抬起至80°约55s
Approx. 55s for boom elevation from 20° to 80°



从12.9m伸出至50m约125s
Approx. 125s for boom extension from 12.9m to 50m

平衡重 Counterweight

Официальный дилер
спецтехники XCMG в России
+7 (495) 641-80-47
info@techno-xcmg.ru



平衡重 Counterweight	A	B (选配optional)
尺寸(长×宽×高)mm Size (L×W×H) mm	3480×1910×654	4700×1910×654
重量 t Weight t	16	16+7

工况模式 Working mode	0t	16t	16t+7t (选配optional)
组合形式 Combinations	—	A	B

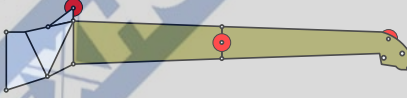
臂架组合方案

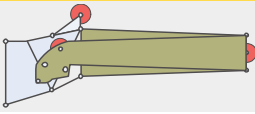
Boom/Jib combinations

副臂-10.8m
Jib-10.8m



副臂-18.3m
Jib-18.3m



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

Официальный дилер
спецтехники XCMG в России
+7 (495) 641-80-47
info@techno-xcmg.ru

Официальный дилер
спецтехники XCMG в России
+7 (495) 641-80-47
info@techno-xcmg.ru

臂架组合方案

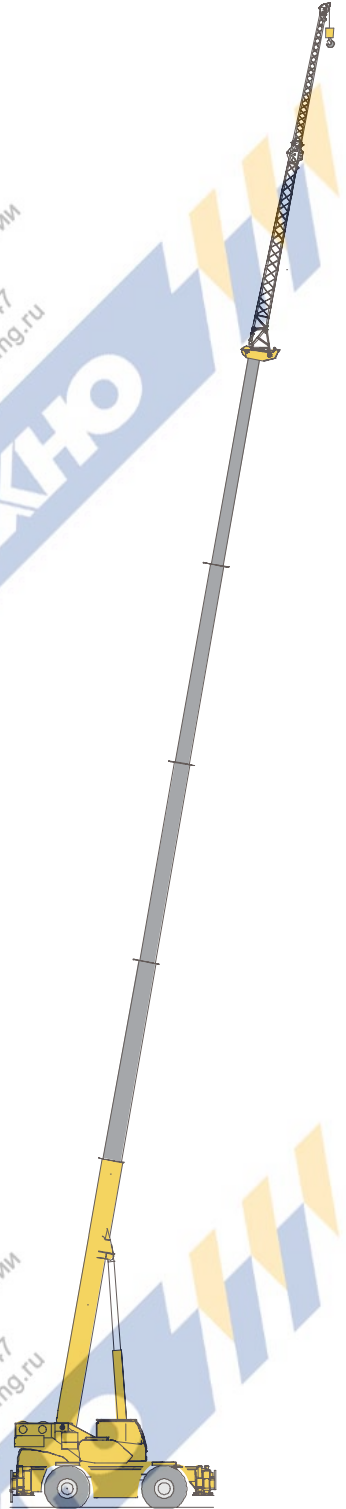
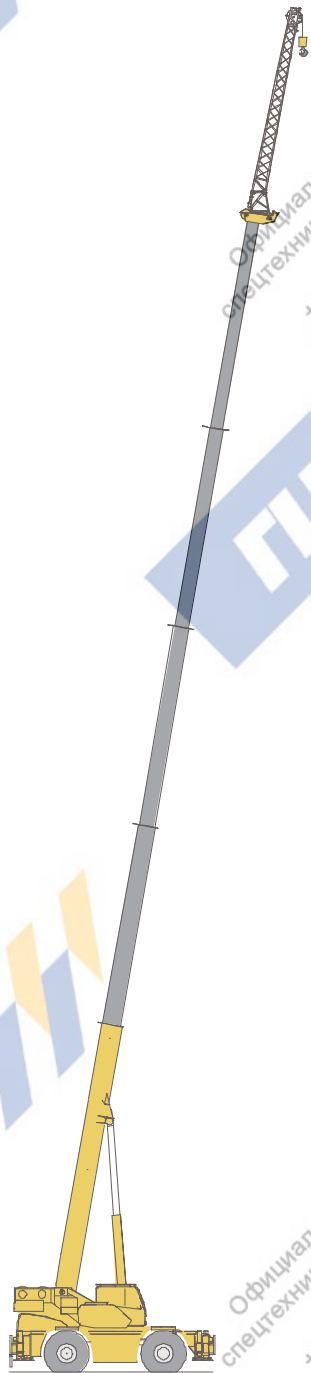
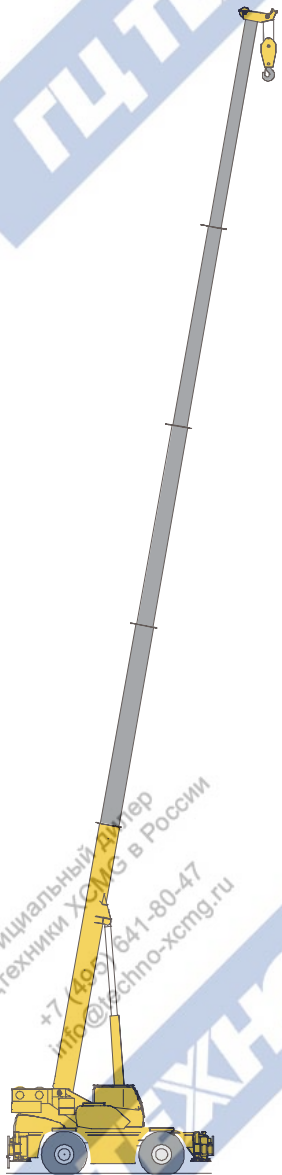
Boom / Jib combinations

Официальный дилер
спецтехники XCMG в России
+7 (495) 641-80-47
info@techno-xcmg.ru

Официальный дилер
спецтехники XCMG в России
+7 (495) 641-80-47
info@techno-xcmg.ru

Официальный дилер
спецтехники XCMG в России
+7 (495) 641-80-47
info@techno-xcmg.ru

Официальный дилер
спецтехники XCMG в России
+7 (495) 641-80-47
info@techno-xcmg.ru



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

12.9~50m

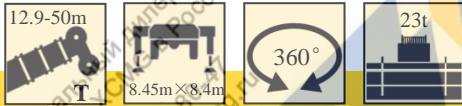
50m+10.8m

50m+18.3m

起重性能表

Lifting capacities

T12.9~50m



m	12.9m	17.5m	19.9m	22.2m	29.1m	36.1m	43.0m	50.0m	26.8m	33.8m	40.7m	24.5m	31.5m	38.4m	45.4m	m
2.5	120.0*															2.5
3	100.0															3
4	92.0															4
5	72.0	70.0	65.0													5
6	60.0	59.5	54.8	56.0					39.6			39.6				6
7	53.0	54.1	51.1	53.5	37.0	31.0	19.4		40.3	28.0	21.2	40.6	30.1	23.3		7
8	45.4	46.2	43.3	45.0	37.0	30.5	19.5		37.5	26.3	20.6	41.7	30.5	22.5		8
9	39.0	40.3	40.0	39.6	35.0	27.5	19.5		35.2	24.7	19.8	40.1	28.0	21.6	17.4	9
10		35.1	34.8	34.5	31.0	27.6	18.9	14.2	33.1	18.7	18.7	35.5	26.5	20.4	17.4	10
12		19.7	19.5	19.4	23.3	19.6	15.5	12.5	25.4	16.9	15.5	23.9	20.2	14.8	15.3	12
14		14.6	14.4	14.2	19.3	16.2	15.7	13.4	20.4	15.4	12.2	15.9	20.3	13.3	15.9	14
16			12.2	10.9	15.0	12.6	11.2	12.4	15.9	14.0	10.8	12.4	16.4	11.9	14.1	16
18				8.4	9.5	10.2	10.1	12.0	11.1	11.4	9.8	9.9	10.6	10.7	12.7	18
20					7.7	8.3	8.7	10.8	9.2	9.6	8.9	8.1	8.7	9.1	9.2	20
22					6.2	6.9	7.3	9.5	7.8	8.1	8.0		7.3	7.7	7.9	22
24					5.1	5.8	6.1	8.0		6.9	7.2		6.1	6.5	6.7	24
26						4.8	5.2	5.4		6.0	6.2		5.2	5.5	5.8	26
28						4.0	4.4	4.6		5.2	5.4			4.7	5.0	28
30						3.4	3.7	4.0			4.8			4.1	4.3	30
32							3.1	3.4			4.2			3.5	3.8	32
34							2.6	2.9			3.7			3.0	3.2	34
36							2.2	2.5			3.3				2.8	36
38							1.8	2.1							2.4	38
40								1.8							2.1	40
42								1.4								42
44								1.2								44
二节臂 2nd	0%	50%	75%	100%	100%	100%	100%	100%	0%	0%	0%	50%	50%	50%	50%	二节臂 2nd
三节臂 3rd	0%	0%	0%	0%	25%	50%	75%	100%	50%	75%	100%	25%	50%	75%	100%	三节臂 3rd
四节臂 4th	0%	0%	0%	0%	25%	50%	75%	100%	50%	75%	100%	25%	50%	75%	100%	四节臂 4th
五节臂 5th	0%	0%	0%	0%	25%	50%	75%	100%	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，14倍率。

The lifting load with a * followed is available only when the boom sheave block is used together with the single top, with 14 parts of line.

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
--	------------	---	-----------

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	15580×3490×3980 (16t平衡重) (16t counterweight)	±1%	
	轴距 Wheel base	mm	4600	±1%	
	轮距 (前/后) Track (Front/ Rear)	mm	2590/2590	±1%	
	前悬/后悬 Front/ Rear overhang	mm	2568/2474	±1%	
	前伸/后伸 Front/ Rear extension	mm	5922/16	±1%	
重量参数 Weight	最大允许总质量 Total vehicle mass in travel configuration	kg	70048 (16t平衡重) (16t counterweight)	±3%	
	轴荷 Axle load	一轴 1st axle	kg	35167	±3%
		二轴 2nd axle	kg	34881	±3%
动力参数 Power	发动机型号 Engine model	—	SC9DF300G3	—	
	额定功率/转速 Engine rated power/rpm	kW/(r/min)	221/2200	—	
	最大输出扭矩/转速 Engine rated torque/rpm	N.m/(r/min)	1300/ (1300~1600)	—	
行驶参数 Travel	最高车速 Max. travel speed	km/h	≥30	—	
	最低稳定车速 Min. travel speed	km/h	2	—	
	最小转弯直径 Min. turning diameter	m	≤8.4	—	
	最小离地间隙 Min. ground clearance	mm	465	±1%	
	接近角 Approach angle	°	21	±1°	
	离去角 Departure angle	°	22	±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	%	≥80	—		

注：配置16t+7t平衡重状态下，只允许短距离场地转移，最高车速不得大于5km/h。

Note: With counterweight of 16 t+7 t attached, jobsite transfer for a short distance is allowed, but travel speed is not more than 5 km/h.

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	120	±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	4890	±1%	
	最大起重力矩 Max. load moment	基本臂 Base boom	kN.m	3567	±5%	
		最长主臂 Fully-extended boom	kN.m	2117	±5%	
	支腿跨距 Outrigger span	纵向 Longitudinal	m	8.45	±1%	
		横向 Lateral	m	8.4	±1%	
	起升高度 Hoist height	基本臂 Base boom	m	13.3	±1%	
		最长主臂 Fully-extended boom	m	49.8	±1%	
		最长主臂+副臂 Fully-extended boom + Jib	m	64.8	±1%	
	起重臂长度 Boom length	基本臂 Base boom	m	12.9	±1%	
		最长主臂 Fully-extended boom	m	50	±1%	
		最长主臂+副臂 Fully-extended boom + Jib	m	68.3	±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	≤125	—	
	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	≤25	—
			放 Extending	s	≤30	—
	垂直支腿 Outrigger jack	收 Retracting	s	≤40	—	
		放 Extending	s	≤45	—	
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物到起重机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.

Официальный дилер
спецтехники XCMG в России
+7 (495) 641-80-47
info@techno-xcmg.ru

Официальный дилер
спецтехники XCMG в России
+7 (495) 641-80-47
info@techno-xcmg.ru