

XCT55_S 汽车面起重机 / Truck Crane

技术规格书

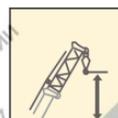
Technical specifications



55 t



44 m



59.8 m



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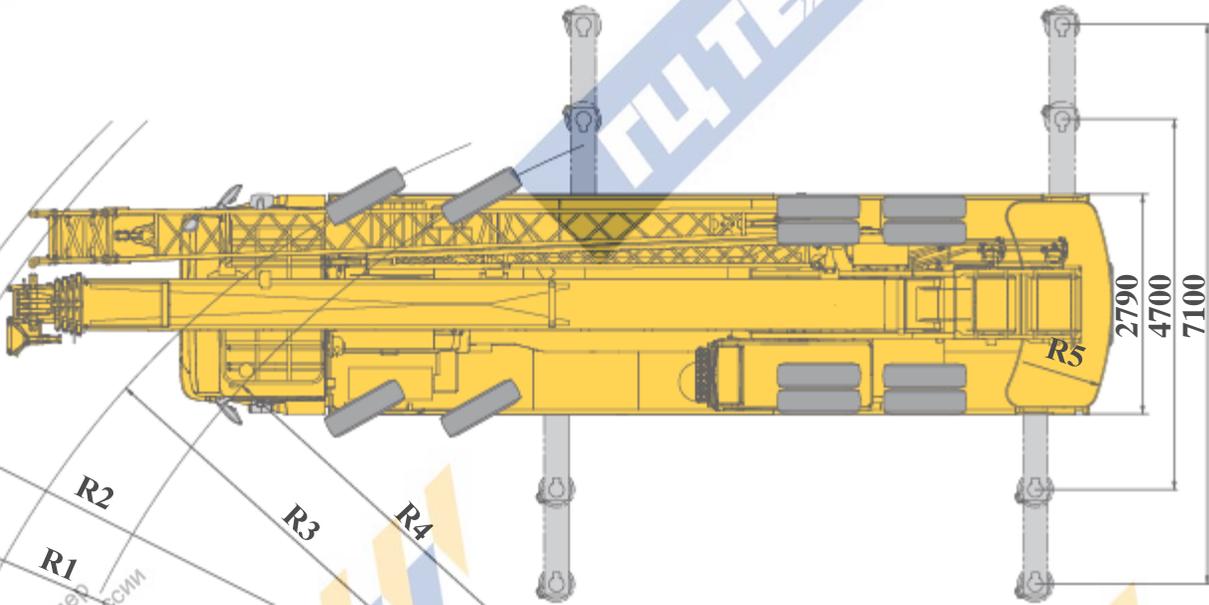
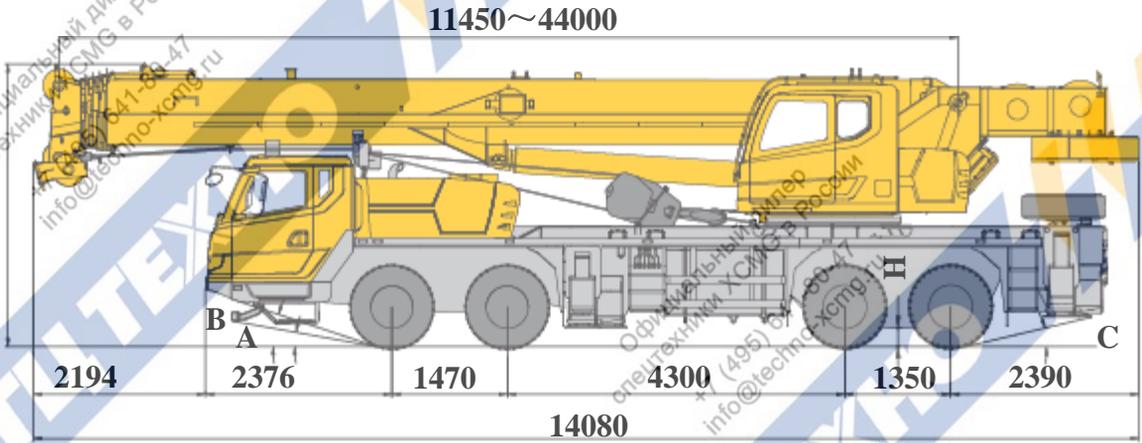
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尺寸参数 Dimensions



	A	B	C	D	H	R1	R2	R3	R4	R5
12.00R24-20PR 12.00R24-RLB200+	10°	18°	13°	3630	250	14750	14320	12000	11270	3900

技术规格

Technical specifications

	Chassis	
Frame	Designed and manufactured by XCMG, it 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. There is an outrigger control station located at each side of the chassis, and there is a level gauge on each control station. The outrigger movements can be simultaneously or separately controlled at any side of the chassis. Each jack cylinder is equipped with a double-way hydraulic valve. Outrigger float diameter: $\phi 450$ mm Reaction force of outrigger at max. lifting load: 490 KN	●
Engine	WD615.334, in-line, six-cylinder, water-cooled, four-stroke, supercharging, high pressure common rail engine, manufactured by Sinotruk Group, with rated power of 247 kW /2200 rpm and max. torque of 1350 Nm / 1100-1600 rpm, compliant to China III emission standard. Fuel tank capacity : 320 L	●
Transmission	Mechanical transmission 9JS135TA, made by Shaanxi Fast Gear Co., Ltd., manual flexible shaft control, 9-forward speed and 1-reverse speed with a synchronizer.	●
Axles	High strength axles, made by famous makers through adoption of foreign advanced technology, with reliable performance.	●
Suspensions	Leaf spring suspensions with V-type push rods are adopted, leading to improved chassis stability and reduced tire wear.	●
Tires	315/80R22.5-22PR , tubeless tire, light weight, good heat dissipation, low noise, strong bearing capacity, long service life.	●
		○

Brakes	Service brake: controlled by foot pedal, double-circuit air pressure brake. The first circuit acts on the wheels of axles 1 and 2, and the second circuit acts on the wheels of axles 3 and 4. Parking brake: spring-loaded brake, acting on the wheels of axles 3 and 4. Auxiliary brake: engine compression brake, engine exhaust brake, safe and reliable, and will prolong the service life of brake lining.	●
Steering	Mechanically steering mechanism with a hydraulic booster.	●
Driver's cab	Luxurious cab, equipped with adjustable seats, safety glass, electrically operated door window lifters, electric-adjustable mirrors, steering wheel adjustable in height and angle, liquid crystal display and CD player, etc. A fire extinguisher of 2 kg is available. Heater and air conditioner are standard.	●
Electrical system	DC 24 V, two sets of 12 V battery in series. Generator: $28.5 \pm 0.3V$, 70 A	●
Safety devices	Double-way hydraulic valve.	●
	Fireproof cover of exhaust pipe	○
	ABS	○

技术规格

Technical specifications

	Superstructure	
Frame	Designed and manufactured by XCMG, made of high-strength steel	●
Hydraulic system	Special throttle load sensitive design, more stable system minimum flow, more reasonable system rigidity, more prominent fine-control and smoothness; confluence technology for lifting, elevating and telescoping double-pump confluence; air-cooled hydraulic oil cooler is fitted. Oil tank capacity: 800 L	●
Operating mode	Stepless speed regulation is available. Pilot hydraulic proportional control through left and right levers is used for controlling the superstructure.	●
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 balance valve and a grooved drum equipped. It has features of high speed with a light load and low speed with a heavy load.	●
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 balance valve and a grooved drum equipped. It has features of high speed with a light load and low speed with a heavy load.	○
Slewing system	A single-row, four-point contact-ball slewing ring is driven by the planetary gear reducer of slewing mechanism, which is driven by a hydraulic motor, and may continuously slew 360°. Power control and free slewing function as well as stepless speed regulation are available.	●
Elevating system	A front support hydraulic cylinder is equipped for elevating operation, with a balance valve fitted.	●
Hook block	55t Hook block	●
	35t Hook block	○
	4.5t Hook block	●
Counter Weight	Fixed counterweight of 5.5t,	●
	Removable counterweight of 1.5 t	○

Operator's cab	New steel cab. Safety glass and sun shield are used for windows. A swing-out door is equipped. The cab features a new ergonomic seat design with backrest adjustment. Wipers are fitted for the windshield and roof window; standard controls and indicators are ergonomically arranged in the cab. Air conditioner is standard. Heater	● ○
Safety devices	Hydraulic balance valve, hydraulic relief valve, LMI, spring centering system for control levers, lowering limiter for preventing wire rope from over-releasing, anti-two block at boom head for preventing wire rope from over-winding. Anemometer	● ○
	Tri colored light bar	○
	EAC certificate, including virtual wall, low temperature warning and high voltage warning functions	○

	Boom and jib system	
Boom	Comprised of one basic boom and four telescoping boom sections, the boom adopts anti-distortion design and is made of high strength structural steel. Double hydraulic cylinders plus wire ropes mechanism is used to telescope the boom. Main boom length: 11.5 m ~ 44 m	●
Jib	Two-section, lattice, welded structure; three offset angles of 0°, 15° and 30°. Fixed jib length: 9.5 m/16 m	○
Single top	Fitted at boom head, used for single line operation. Its lifting performance is the same as that for boom, but the maximum lifting load does not exceed 4500kg.	●

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

t	2	3	4	总重量 Total weight
7.6	7.6	12.65	12.65	40.5



吊钩

Hook

倍率

Parts of line

吊钩重量

Weight (kg)

吊钩尺寸

Dimensions (mm)

备注

Remarks

55 t	13	517	537×544×1326	单钩 Single hook , 标配 Standard
35 t	10	403	460×544×1334	单钩 Single hook , 选配 Optional
4.5 t	1	100	300×300×356	单钩 Single hook , 标配 Standard

作业速度 Working speeds



315/80R22.5



2.5 ~ 80



45%



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



0-130 m/min, 单绳, 第四层
m/min, single line, 4th layer

50 kN

18 mm/190 m



0-130 m/min, 单绳, 第四层
m/min, single line, 4th layer

50 kN

18 mm/128 m



0-2r/min



从-1°抬起至81°约40s
Approx. 40 s for boom elevation from -1° to 81°



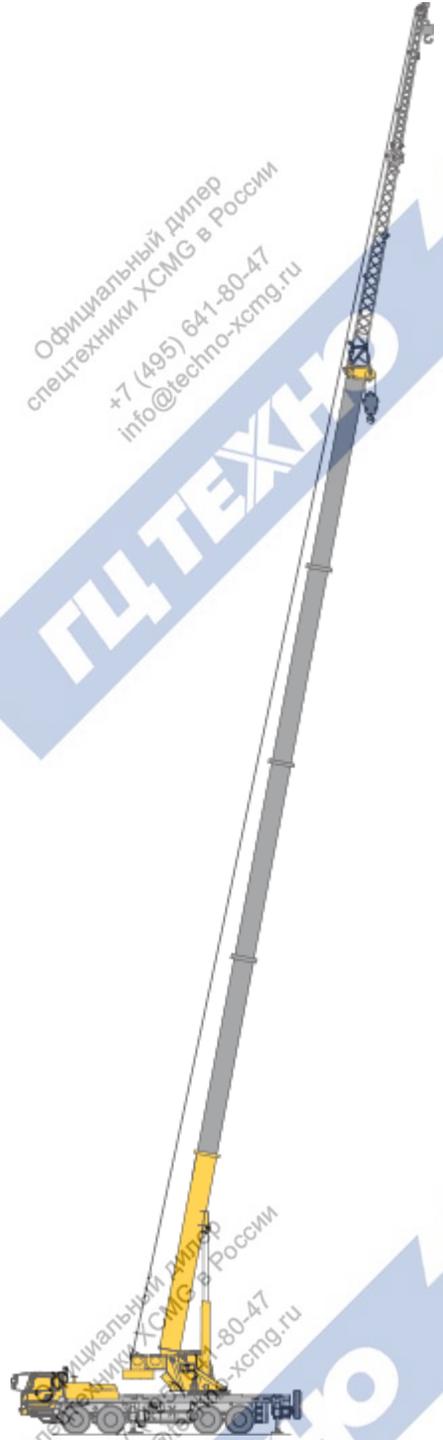
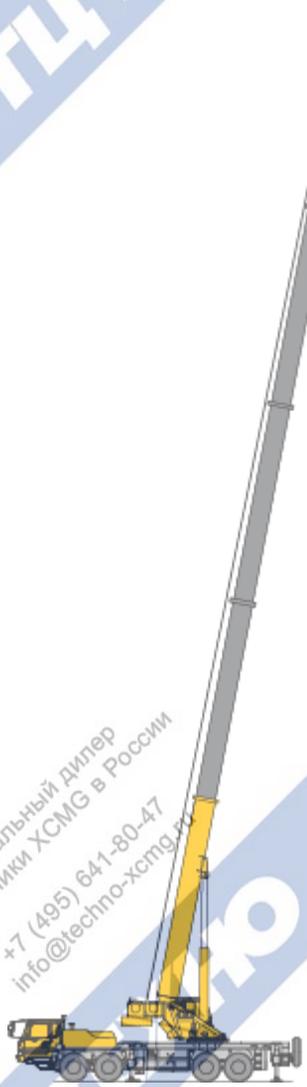
从11.5m伸出至44m约90s
Approx. 90 s for boom extension from 11.5 m to 44 m

臂架组合方案

Boom / Jib combinations

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主臂
Telescopic boom

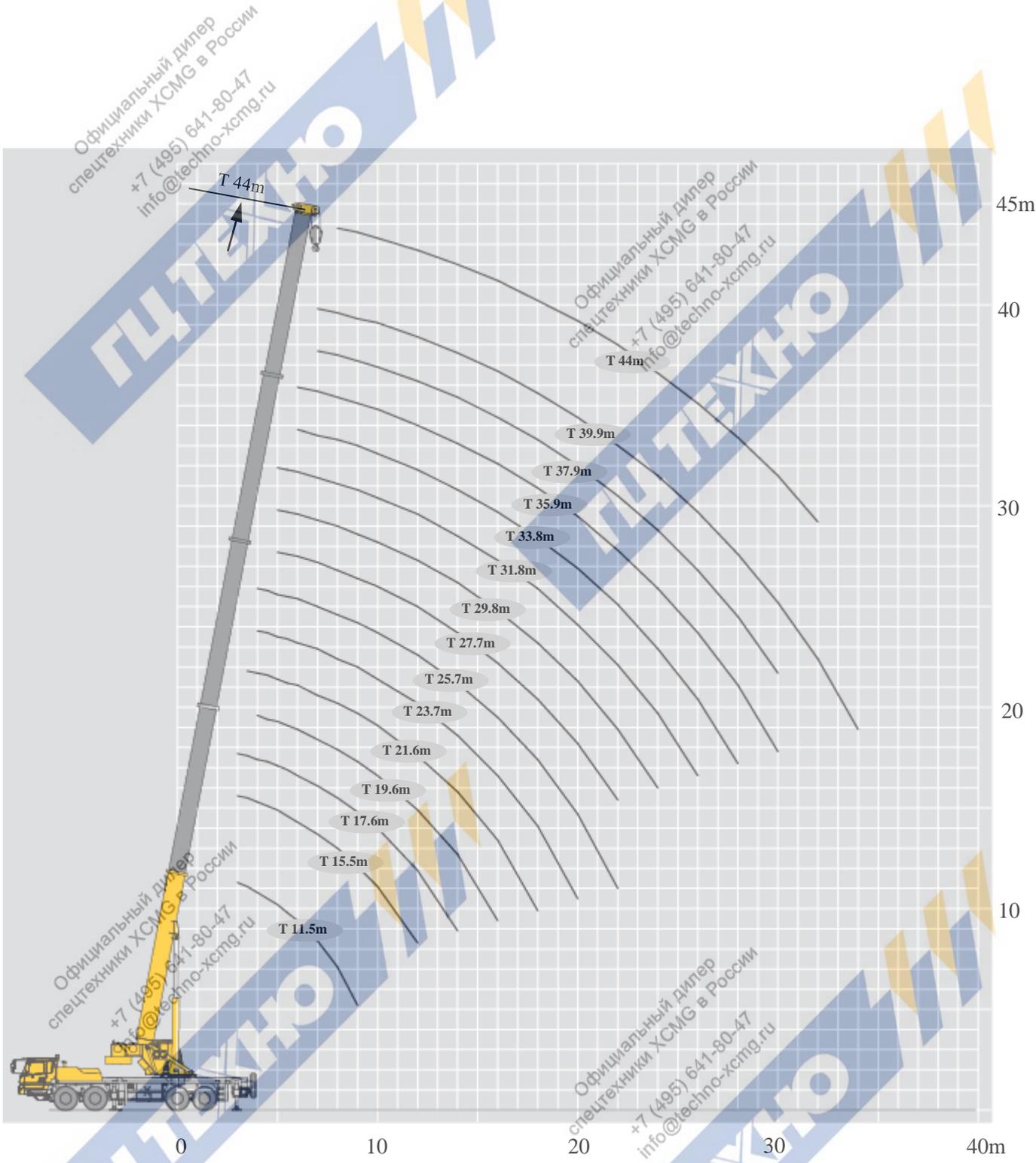
副臂
Jib

T : 11.5~44m

T : 44m
J : 9.5~16 m

起升高度曲线图 Lifting heights

主臂
Boom



起重性能表

Lifting capacities

T 11.5~44m



m	11.5m	15.5m	19.6m	25.7m	31.8m	37.9m	44m	m
3	55000	45000						3
3.5	52000	45000						3.5
4	48000	45000	33300	25000				4
4.5	45000	43000	33000	25000				4.5
5	41000	40000	32000	25000	19700			5
5.5	36500	36000	31000	25000	19700			5.5
6	33000	32500	29000	25000	19700			6
7	28000	30600	26000	24400	19500	14200		7
8	23800	23400	23200	22100	18200	14200		8
9	18900	18600	18400	19500	16800	13600	9000	9
10		15100	14900	16000	15600	12800	9000	10
12		10300	10200	11200	11800	11300	8600	12
14			7200	8200	8800	9200	8000	14
16			5200	6200	6800	7100	7400	16
18				4700	5300	5600	5900	18
20				3600	4100	4500	4800	20
22				2700	3300	3600	3900	22
24					2600	2900	3200	24
26					2000	2300	2600	26
28						1800	2100	28
30						1400	1600	30
32						1000	1300	32
34							1000	34

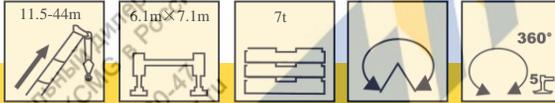
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起重性能表

Lifting capacities

T 17.6~39.9m



m	17.6m	23.7m	29.8m	35.9m	21.6m	27.7m	33.8m	39.9m	m
3	27000								3
3.5	27000				27000				3.5
4	27000	27000			27000				4
4.5	27000	27000			27000				4.5
5	27000	27000	17600		27000	24500			5
5.5	27000	27000	17000		27000	24500			5.5
6	27000	27000	16000	12000	27000	24500	16400		6
7	27000	27000	15200	11900	27000	24000	15300	11000	7
8	25400	22100	14100	11100	24800	23100	14300	10600	8
9	20400	21100	13000	10400	19900	19000	13400	10100	9
10	16900	17600	12000	9700	16400	17100	12500	9500	10
12	12000	12700	10400	8600	11500	12200	11000	8600	12
14	9000	9600	9100	7500	8500	9200	9500	7800	14
16		7500	7900	6600	6500	7100	7500	7000	16
18		6000	6300	5900	5000	5600	5900	6200	18
20		4900	5200	5400		4500	4800	5100	20
22			4300	4500		3600	3900	4200	22
24			3600	3800			3200	3400	24
26				3200			2600	2800	26
28				2700			2100	2300	28
30				2200				1900	30
32								1500	32
34								1200	34

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起重性能表

Lifting capacities

T 11.5~44m



m	11.5m	15.5m	19.6m	25.7m	31.8m	37.9m	44m	m
3	55000	45000						3
3.5	52000	45000						3.5
4	48000	45000	33300	25000				4
4.5	45000	43000	33000	25000				4.5
5	41000	40000	32000	25000	19700			5
5.5	36500	36000	31000	25000	19700			5.5
6	33000	32500	29000	25000	19700			6
7	27000	26600	26000	24400	19500	14200		7
8	21700	21100	20800	21900	18200	14200		8
9	17200	16600	16200	17300	16800	14200	9000	9
10		13300	13000	14000	14600	14200	9000	10
12		9000	8800	9700	10300	10700	8600	12
14			6100	7000	7600	7900	8000	14
16			4400	5200	5700	6100	6300	16
18				3900	4400	4800	5000	18
20				2900	3400	3800	4000	20
22				2200	2600	3000	3200	22
24					2000	2300	2600	24
26					1500	1800	2000	26
28						1400	1600	28
30						1000	1200	30
32							900	32

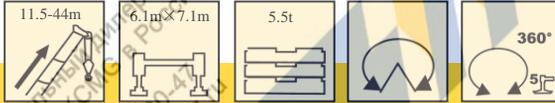
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起重性能表

Lifting capacities

T 17.6~39.9m



m	17.6m	23.7m	29.8m	35.9m	21.6m	27.7m	33.8m	39.9m	m
3	27000								3
3.5	27000				27000				3.5
4	27000	27000			27000				4
4.5	27000	27000			27000				4.5
5	27000	27000	17600		27000	24500			5
5.5	27000	27000	17000		27000	24500			5.5
6	27000	26000	16000	12000	27000	24500	16400		6
7	26000	25000	15200	11900	26000	24000	15300	11000	7
8	23000	23600	14100	11100	22300	23100	14300	10600	8
9	18500	19100	13000	10400	17800	19000	13300	10000	9
10	15100	15600	12000	9700	14400	15100	12500	9500	10
12	10700	11200	10400	8600	10100	10700	10900	8500	12
14	8000	8500	8700	7500	7400	8000	8300	7700	14
16		6600	6900	6600	5600	6100	6400	6700	16
18		5200	5500	5700	4300	4800	5100	5300	18
20		4200	4500	4600		3800	4100	4300	20
22			3700	3800		3000	3300	3500	22
24			3000	3200			2600	2800	24
26				2700			2100	2300	26
28				2200			1700	1900	28
30				1800				1500	30
32								1200	32
34								900	34

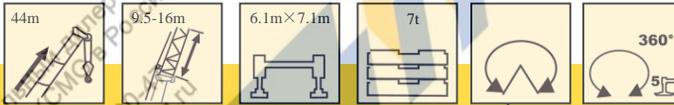
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起重性能表

Lifting capacities

T 44m



°	9.5 m			16 m			°
	0°	15°	30°	0°	15°	30°	
78	4500	3000	2500	2800	1500	1200	78
75	4100	2800	2400	2400	1400	1100	75
72	3800	2600	2300	2000	1200	1000	72
70	3500	2500	2200	1900	1200	950	70
65	2800	2300	2000	1700	1000	850	65
60	1900	1700	1700	1200	900	750	60
55	1200	1100	1100	850	700	650	55
50	700	700	700	450	400	300	50

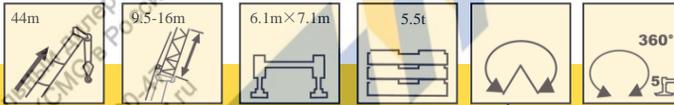
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起重性能表

Lifting capacities

T 44m



°	9.5 m			16 m			°
	0°	15°	30°	0°	15°	30°	
78	4500	3000	2500	2800	1500	1200	78
75	4100	2800	2400	2400	1400	1100	75
72	3800	2600	2300	2000	1200	1000	72
70	3500	2500	2200	1900	1200	950	70
65	2600	2300	2000	1700	1000	850	65
60	1700	1600	1500	1200	900	750	60
55	1000	1000	900	700	600	600	55
50	600	500	500	300			50

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符号标识

Description of symbols

常规标识

General symbols

	上车 Superstructure		底盘 Chassis
	臂架系统 Boom system		车桥 Axle
	起重能力 Lifting capacity		行驶速度 Driving speed
	吊臂长度 Boom length		爬坡能力 Grade ability
	工作幅度 Radius		轮胎 Tires
	吊臂仰角 Boom angle		支腿 Outriggers
	主臂起升高度 Hoist height with boom		吊钩 Hook block
	固定副臂长度 Fixed jib length		平衡重 Counterweight
	副臂安装角 Jib offset angle		卷扬 Winch
	副臂起升高度 Hoist height with jib		使用第五支腿360°全回转 360° operation of the boom with 5th jack down
	不使用第五支腿侧后方作业 Boom over side or over rear of the crane without 5th jack		

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 percentage (or digits, which means the percentage of boom sections extended).

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ГЦТЕХНЮ

主要技术参数表

Table of main technical parameters

类别 Category	项目 Item	单位 Unit	参数 Parameter	
尺寸参数 Dimensions	外形尺寸(长×宽×高) Dimensions (length×width×height)	mm	14080×2790×3667	
	轴距 Wheel base	mm	1470/4300/1350	
	轮距(前/后) Track (Front/ Rear)	mm	2304/2060	
	前悬/后悬 Front/ Rear overhang	mm	2376/2102	
	前伸/后伸 Front/ Rear extension	mm	2196/0或2183/0 2196/0 or 2183/0	
重量参数 Weight	最大允许总质量(标配) Total vehicle mass in travel configuration (Standard)	kg	40500	
	轴荷 Axle load	一轴、二轴 1st and 2nd axle	kg	15200
	三轴、四轴 3rd and 4th axle	kg	25300	
动力参数 Power	发动机型号 Engine model	—	D10.38-50	
	额定功率/转速 Engine rated power/rpm	kW/(r/min)	276kW/2200rpm	
	最大净功率/转速 Max. net power/rpm	kW/(r/min)	274kW/2200rpm	
	最大输出扭矩/转速 Max. output torque/rpm	N.m/(r/min)	1560Nm/1200-1500rpm	
行驶参数 Travel	最高车速 Max. travel speed	km/h	80	
	最低稳定车速 Min. stable travel speed	km/h	2.5 ~ 3	
	最小转弯直径 Min. turning diameter	m	24	
	臂头最小转弯直径 Min. turning diameter at boom tip	m	29.5	
	最小离地间隙 Min. ground clearance	mm	395	
	接近角 Approach angle	°	19/12 (前防护) 19/12(front protective device included)	
	离去角 Departure angle	°	15	
	制动距离(制动初速度为30km/h) Braking distance (at 30 km/h)	m	≤10	
	最大爬坡能力 Max. grade ability	%	45	
	百公里油耗 Fuel consumption per 100 km	L	40	
噪音 Noise	加速行驶机外噪声 Exterior noise level	dB(A)	≤88	
	驾驶员耳旁噪声 Noise level at seated position	dB(A)	≤90	

主要技术参数表

Table of main technical parameters

类别 Category	项目 Item		单位 Unit	参数 Parameter	
主要性能参数 Main performance	最大额定总起重量 Max. total rated lifting capacity		t	55	
	最小额定工作幅度 Min. rated working radius		m	3	
	转台尾部回转半径 Turning radius at turntable tail		mm	3900	
	最大起重力矩 Max. load moment	基本臂 Base boom	kN.m	2009	
		最长主臂 Fully-extended boom	kN.m	1113	
		最长主臂+副臂 Fully-extended boom + Jib	kN.m	703	
	支腿跨距 Outrigger span	纵向 Longitudinal	m	6.1	
		横向 Lateral	m	7.1	
	起升高度 Hoist height	基本臂 Base boom	m	11.3	
		最长主臂 Fully-extended boom	m	43.6	
		最长主臂+副臂 Fully-extended boom + Jib	m	59.8	
	起重臂长度 Boom length	基本臂 Base boom	m	11.5	
		最长主臂 Fully-extended boom	m	44	
		最长主臂+副臂 Fully-extended boom + Jib	m	60	
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	≤40	
	起重臂全伸时间 Boom fully extending time		s	≤90	
	最大回转速度 Max. slewing speed		r/min	≥2.0	
	支腿收放时间 Outrigger extending and retracting time	水平支腿 Outrigger beam	收 Retracting	s	≤30
			放 Extending	s	≤35
		垂直支腿 Outrigger jack	收 Retracting	s	≤35
			放 Extending	s	≤40
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	≥130		
	副起升机构 Auxiliary winch	m/min	≥130		
噪声 Noise	机外辐射 Exterior noise level		dB (A)	≤122	
	司机位置处 Noise level at seated position		dB (A)	≤90	