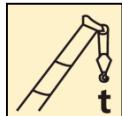


汽车起重机 / Truck Crane



QY50KA



50 t



43.5 m



58.1 m



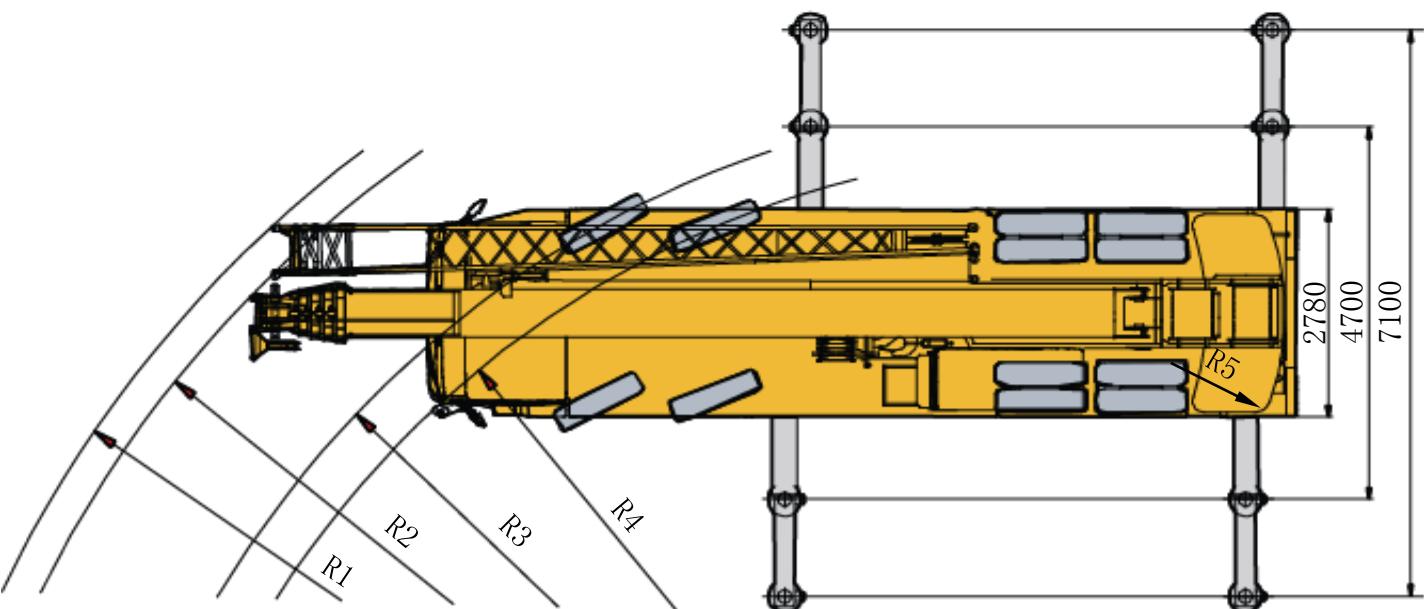
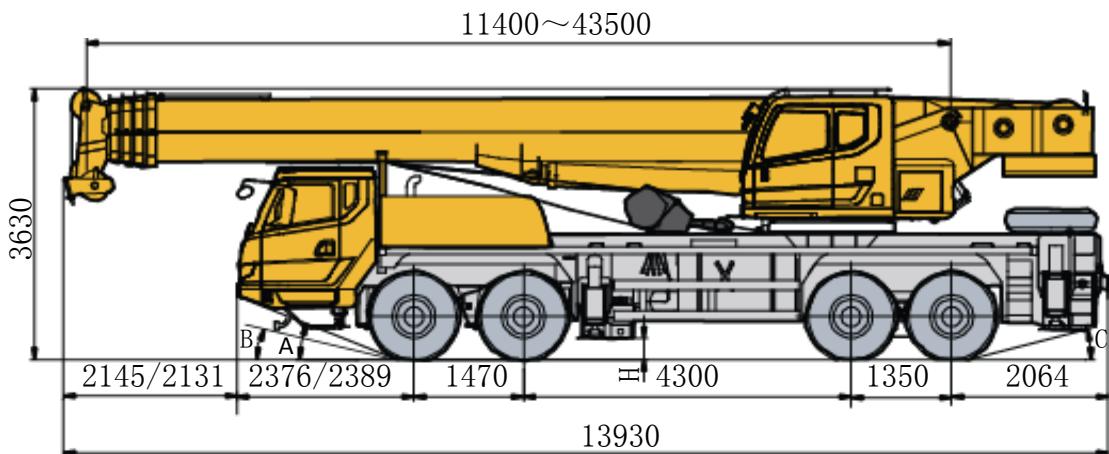
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尺寸参数

Dimensions



	A	B	C	H	R1	R2	R3	R4	R5
12.00R24-18PR	19°	12°	15°	280	14600	14500	12000	11500	3800

技术规格

Technical specifications



底盘

车架	徐工设计、制造，受力结构优化设计，防扭转箱型结构，进口高强度钢材制造。支腿箱体位于2桥和3桥之间以及车架后端，具有前后牵引挂钩。
支腿	4支腿。纵向H形布置，操作杆控制液压动作。可由底任一侧同时或单独控制各支腿的动作，设有水平仪。 支腿油缸均设有单向阀，且垂直支腿带有双向液压锁。 支脚盘尺寸：φ450mm 最大起重量时支腿反力：490KN
发动机	中国重型汽车集团，直列、六缸、水冷、增压中冷、电控 D10.38-50，额定功率276kW/2000rpm，最大扭矩1560Nm/1100-1600rpm，国V排放标准。
变速箱	9档变速箱，远距离软轴机械操纵，带同步器。
车桥	高强度桥，引进国外先进技术，名牌厂家制造，性能可靠。
悬挂	后悬挂系统，采用V型推力杆结构、橡胶弹簧悬架，增加底盘行驶稳定性，减少轮胎的磨损。
轮胎	12.00R24，×12 备胎12.00R24，×1 轮辋：8.5-24
制动	行车制动：脚踏板操纵的双回路气压制动。 第一回路作用于一、二轴车轮上，第二回路作用于三、四轴车轮上。 驻车制动：弹簧贮能制动，作用于三、四轴车轮； 辅助制动：发动机缸内制动、排气制动，安全可靠，延长制动摩擦片使用寿命。
转向	机械式转向机构，带有液压助力。
驾驶室	全宽豪华驾驶室，标配收放音机，可调式座椅、方向盘，大视野后视镜，电动门窗升降器，标配暖风、空调。
电气系统	直流24伏特，串联 12 伏特的电池组 2 个。 发电机：28.5±0.3 伏特，70 安培。



上车

结构	徐工设计、制造，高强度钢材制造。
液压系统	液压泵：底盘发动机驱动四联泵，变量泵用于起升、变幅、伸缩。 控制阀：先导液压油控制的负荷敏感式比例多路换向阀，带有抗冲击阀、防气蚀阀。 油路：风冷式液压油冷却器，有效降低系统油温 滤油器：进、回油滤油器
操纵方式	无级调速。先导液比例操纵，由左右2个操纵手柄控制 由液压泵和比例阀进行液压先导式控制起重机的全部动作。
主起升机构	压控制调速，装有双折线绳槽卷筒，由液压马达通过行星齿轮减速器驱动，内置常闭式制动器并带有平衡阀。 具有轻载高速、重载低速的特点。
回转机构	单排四点接触球外齿式回转支承，由液压马达驱动行星齿 轮回转机构减速器驱动，可连续回转360°。 设有脚踏板操作的回转制动器。 具有动力控制或自由滑转的功能，可无级调速。
变幅机构	单支双作用前置液压变幅油缸，带有平衡阀。
操纵室	新型钢制操纵室，装有无视野死角的前景窗，安全玻璃，车窗装有遮阳板，推拉式车门，座椅靠背可倾斜定位，操纵杆安装在座椅两侧的扶手上。 带推拉踏板，方便人员进出。 前窗顶窗装有雨刮器，标准的操纵控制件和指示器。 配备冷暖空调。
安全装置	液压平衡阀；液压溢流阀；液压双向锁； 力矩限制器；操纵杆弹簧式回中系统；三圈保护器，防止钢丝绳过放；臂头设置高度限位，防止钢丝绳过卷

技术规格

Technical specifications



臂架系统

主臂

由1节基本臂和4节伸缩臂组成，采用抗扭曲设计，高强度结构钢制造。主臂长度：11.4m ~ 43.5m。

臂端单滑轮

单滑轮，安装在主臂顶端用于单股钢丝绳起重作业，起重性能与主臂相同，但最大起重重量不超过4.5t。

固定副臂

两节副臂，一节桁架式副臂，工作长度9.5m，二节箱型副臂，两节臂全伸工作长度16m，安装角度0°、15°、30°。

选装配置

底盘发动机 中国重型汽车集团，直列、六缸、水冷、增压中冷、电控；WD615.338，额定功率276kW/2200rpm，最大扭矩1500Nm/1100-1600rpm，国III排放标准。

底盘发动机 中国重型汽车集团，直列、六缸、水冷、增压中冷、电控；D10.38A-40，额定功率276kW/2200rpm，最大扭矩1500Nm/1100-1600rpm，国IV排放标准。

产品各部件明细如上所述，具体部件明细请参照产品报价单

技术规格

Technical specifications



Chassis

Frame

Designed and manufactured by XCMG, with all covered walking surface, anti-torsion box structure and optimal load-bearing structure design, made of imported high strength steel.

Outrigger

Four outriggers are arranged in H shape longitudinally, with outrigger beams and jacks hydraulically controlled by control levers. Control levers are located on both sides of the chassis, with a luminous level gauge equipped. Check valve is fitted in each outrigger cylinder, and double-way valve is fitted in jack cylinder. Outrigger float dimension : φ450mm Max. outrigger reaction force : 490KN

Engine

D10.38-50, in-line six-cylinder water-cooled EFI diesel engine, manufactured by CHINA NATIONAL HEAVY DUTY TRUCK GROUP CO., LTD., rated power 276kW /2000rpm, max. torque 1560Nm / 1100-1600rpm, the national V emission standards.
Fuel tank capacity : 320L

Gearbox

9-speed transmission, manually mechanical control by long distance soft axle, synchronizer is equipped.

Axes

High strength axle with reliable performance, adopted oversea advanced technology and produced by famous company.

Suspension

Rear suspension,V-type thrust rod structure, and rubberspring suspension, to increase chassis driving stability and reduce tire wear.

Tires

12.00R24 , ×12
Reserve:12.00R24 , ×1
Rim: 8.5-24

Brakes

Service brake.....foot pedal control, double-circuit air brake. The 1st circuit acts on the wheels of 1st axle, the 2nd circuit acts on the wheels of 3rd and 4thaxles.
Parking brake.....air-releasing brake, which acts on 3rd and 4thaxles.
Auxiliary brake.....engine cylinderinner-brake and engine exhaust brake,safety and reliability and extend the service life of brake friction disc.

Steering

Mechanical steering system with hydraulic boosting device.

Driver's cab

Full-dimension luxurious driver's cab. Radio, adjustable seat, steering wheel, large-view rear mirrors and electronic lifters of doors and windows are equipped.

Heater, air-conditioner are standard.

Electric power system

DC 24 V, two 12 V battery group in series.
28.5±0.3V70 ampere generator.



Superstructure

Frame

Designed and manufactured by XCMG; Full-covered walking platform, made of high-strength steel

Hydraulic system

Hydraulic pump:quadruple pump is driven by chassis engine , variable-displacement pump used for hoisting, elevating and telescoping system. Control valve:load sensitive proportional multi-way change valve controlled by pilot hydraulic oil, impact-resistant valve and anti-cavitation corrosionvalve are equipped.

Oil circuit:air-cooled hydraulic oil cooler, which may effectively reduce the temperature of oil in the system

Oil filters:suction filter and return filter

Operating mode

Stepless speed regulation is available.
All the movements of the crane is controlled by hydraulic pump, proportional valve and pilot hydraulic-proportional control system, controlled by two control levers at left and right.

Main winch system

Hydraulic controlled speed regulation, groove drum is equipped, driven by hydraulic motor through planetary gear reducer, and built-in normally closed brake and counterbalance valve are available.
Hoisting system has features of high speed with light load and low speed with heavy load.

Slewing system

Single-row 4-point contact ball external tooth slewing ring.

Slewing system is driven by hydraulic motor, with planetary gear reducer,for 360° continuous rotation, stepless slewing speed regulation is available.
Functions such as power control or free sliding are equipped,

and foot pedal is fitted to control slewing brake.
Single-supported double acting front-mounted hydraulic elevating cylinder, with balance valve equipped.

Elevating system

The new steel cab is located at the left side of turntable, equipped with no dead vision front glass, safe glass, sun visor,sliding door, adjustable seat, two operating levers beside the seat, indicators, electric window wiper, pull-push pedal facilitate personnel access.

Heater and air conditioner are available.

Hydraulic balance valve;

Hydraulic over-flow valve;

Hydraulic double-way valve;

Load Moment Indicator(LMI);

Lever spring-back middle position system;

Lowering limiter avoids wire rope over-releasing;

Anti-two block at boom head avoids wire rope over-winding;

技术规格

Technical specifications

Boom system	
Boom	1-section base boom and 4-section telescopic boom, with anti-twist design and high-strength steel structure. Main boom length.....11.4m ~ 43.5m
Single top	Single top is installed on the top of main boom, for single wire rope hoist. Its lifting performance is the same as main boom , but its max. lifting load not exceeding 4500kg.
Jib	2-section , 1st section jib is lattice welding structure and length 9.5m, 2nd section jib is box welding structure.The max. length of jib is 16m, 0°, 15° and 30° offset angles are available.
Additional equipment	
Engine	WD615.338, in-line six-cylinder water-cooled EFI diesel engine, manufactured by CHINA NATIONAL HEAVY DUTY TRUCK GROUP CO., LTD., rated power 276kW /2200rpm, max. torque 1500Nm / 1100-1600rpm, the national III emission standards. Fuel tank capacity : 320L
Engine	D10.38A-50, in-line six-cylinder water-cooled EFI diesel engine, manufactured by CHINA NATIONAL HEAVY DUTY TRUCK GROUP CO., LTD., rated power 276kW /2200rpm, max. torque 1500Nm / 1100-1600rpm, the national IV emission standards. Fuel tank capacity : 320L

Product parts details As mentioned above, please refer to the product quotation for specific parts.

重量 Weight



车桥 Axe	1	2	3	4	总重量 Total weight
t	8.1	8.1	13	13	42.2



吊钩 Hook	倍率 No. of lines	吊钩重量 Weight kg	备注 Remarks
50t	12	515	单钩 Single hook , 标配 Standard
35t	10	403	单钩 Single hook , 选配 Optional
4.5t	1	100	单钩 Single hook , 标配 Standard

作业速度 Working speeds



12.00 R 24	1 ~ 85	42%
------------	--------	-----



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	48 kN	18 mm/190 m
	0-130 m/min , 单绳 , 第四层 m/min, single line, 4th layer	48 kN	18 mm/125 m
	0-2r/min		
	从-2°抬起至80°约40s Approx. 40s for boom elevation from -2° to 80°		
	从11.4m伸出至43.5m约90s Approx. 90s for boom extension from 11.4m to 43.5m		

臂架组合方案

Boom / Jib combinations



主臂
Telescopic boom

T : 11.4~43.5m

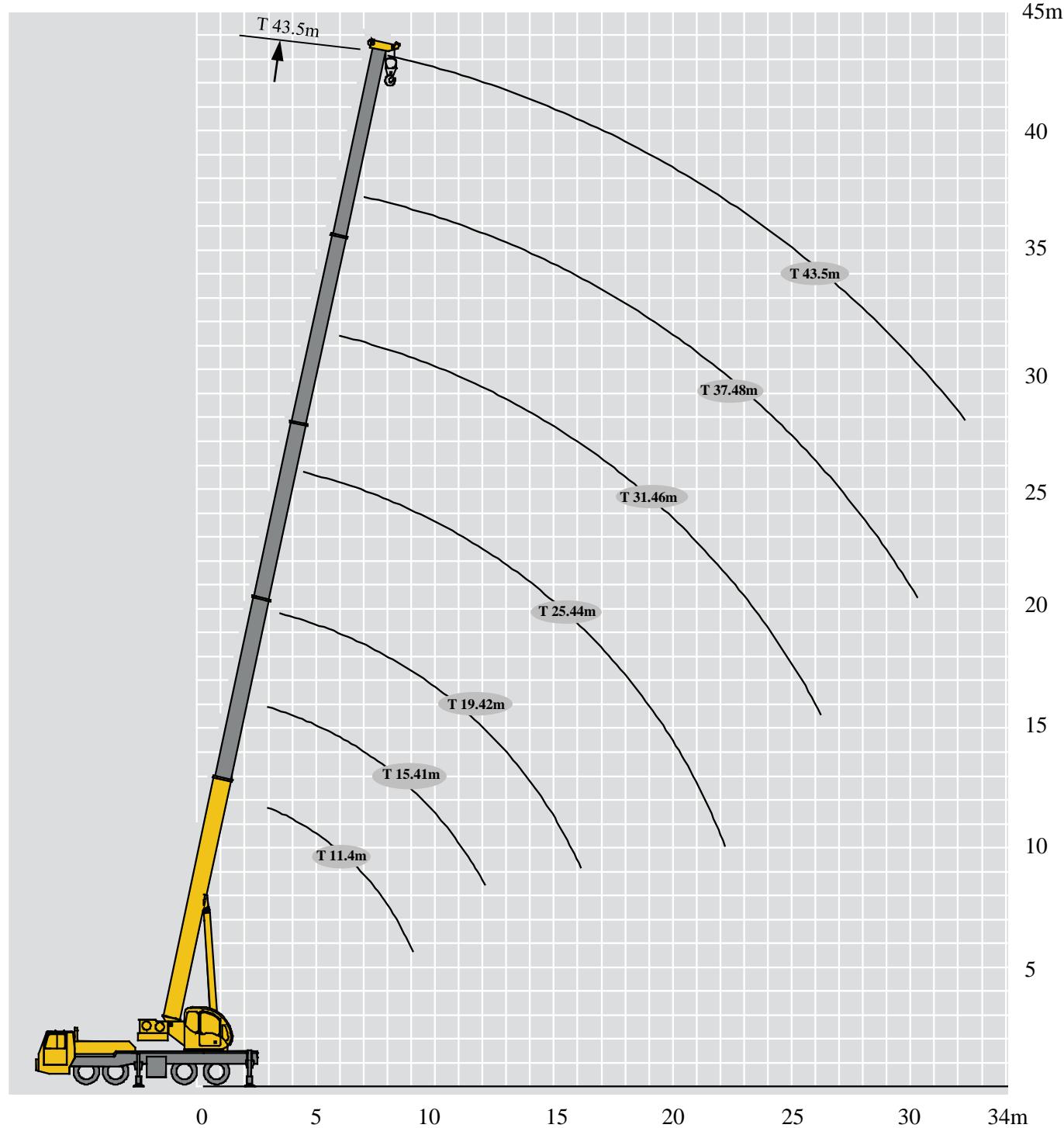
副臂
Jib

T : 43.5m
J : 9.5~16 m

起升高度曲线图

Lifting heights

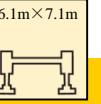
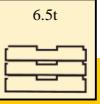
主臂
Boom



起重性能表

Lifting capacities

T 11.4~43.5m

	11.4-43.5m 	6.1m×7.1m 	360° 	6.5t 	11.4m	15.41m	19.42m	25.44m	31.46m	37.48m	43.5m	
3	50000	45000										3
3.5	50000	45000										3.5
4	48000	45000	35000	25000								4
4.5	45000	43000	33000	25000								4.5
5	41000	40000	32000	25000	18500							5
5.5	36500	36000	29000	25000	18500							
6	33000	32500	27000	23300	18500							6
7	27000	26600	24500	21000	18500	14000						7
8	22200	22600	22500	19000	17700	13200	9500					8
9	17500	18000	17600	17000	16300	12500	9500	9300				9
10		14600	14200	15400	15000	11800						10
12		10100	10000	10700	11300	10300	8600					12
14			7200	7900	8400	8800	7900					14
16			5300	6000	6500	6800	7100					16
18				4600	5100	5400	5600					18
20				3500	4000	4300	4500					20
22				2700	3100	3600	3700					22
24					2500	2800	3000					24
26					1800	2200	2400					26
28						1700	1950					28
30						1300	1500					30
32							1200					32

起重性能表

Lifting capacities

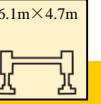
T 11.4~43.5m

	11.4-43.5m T	6.1m×7.1m	360°	5.5t					
	11.4m	15.41m	19.42m	25.44m	31.46m	37.48m	43.5m		
3	50000	45000							3
3.5	50000	45000							3.5
4	48000	45000	35000	25000					4
4.5	45000	43000	33000	25000					4.5
5	40000	40000	32000	25000	18500				5
5.5	36000	35700	29000	25000	18500				
6	32500	31800	27000	23300	18500				6
7	26800	26500	24500	21000	18500	14000			7
8	21000	21600	22000	19000	17700	13200	9500		8
9	16500	17200	17100	17000	16300	12500	9500		9
10		13800	13700	14600	15000	11800	9300		10
12		9500	9400	10100	10700	10300	8600		12
14			6700	7400	7900	8300	7900		14
16			4900	5500	6100	6400	6600		16
18				4200	4700	5000	5300		18
20				3200	3700	4000	4200		20
22				2400	2900	3200	3400		22
24					2200	2500	2700		24
26					1700	2000	2200		26
28						1500	1700		28
30						1100	1400		30
32							1000		32

起重性能表

Lifting capacities

T 11.4~43.5m

	11.4-43.5m 	6.1m×4.7m 	360° 	6.5t 	11.4m	15.41m	19.42m	25.44m	31.46m	37.48m	43.5m	
3	50000	45000										3
3.5	50000	45000										3.5
4	48000	45000	35000	25000								4
4.5	36400	36400	33000	25000								4.5
5	28600	28600	28700	25000	18500							5
5.5	23300	23300	23300	24800	18500							
6	19500	19500	19500	20800	18500							6
7	14300	14200	14200	15400	16200	14000						7
8	10900	10900	10900	12000	12700	12900	9500					8
9	8500	8500	8500	9500	10200	10400	9500					9
10		6800	6700	7800	8400	8600	8900					10
12		4300	4300	5300	5900	6100	6400					12
14			2700	3700	4200	4500	4700					14
16			1600	2500	3100	3300	3500					16
18				1600	2200	2500	2700					18
20				1000	1500	1800	2000					20
22					1000	1300	1500					22
24					500	800	1000					24
26							500	700				26

起重性能表

Lifting capacities

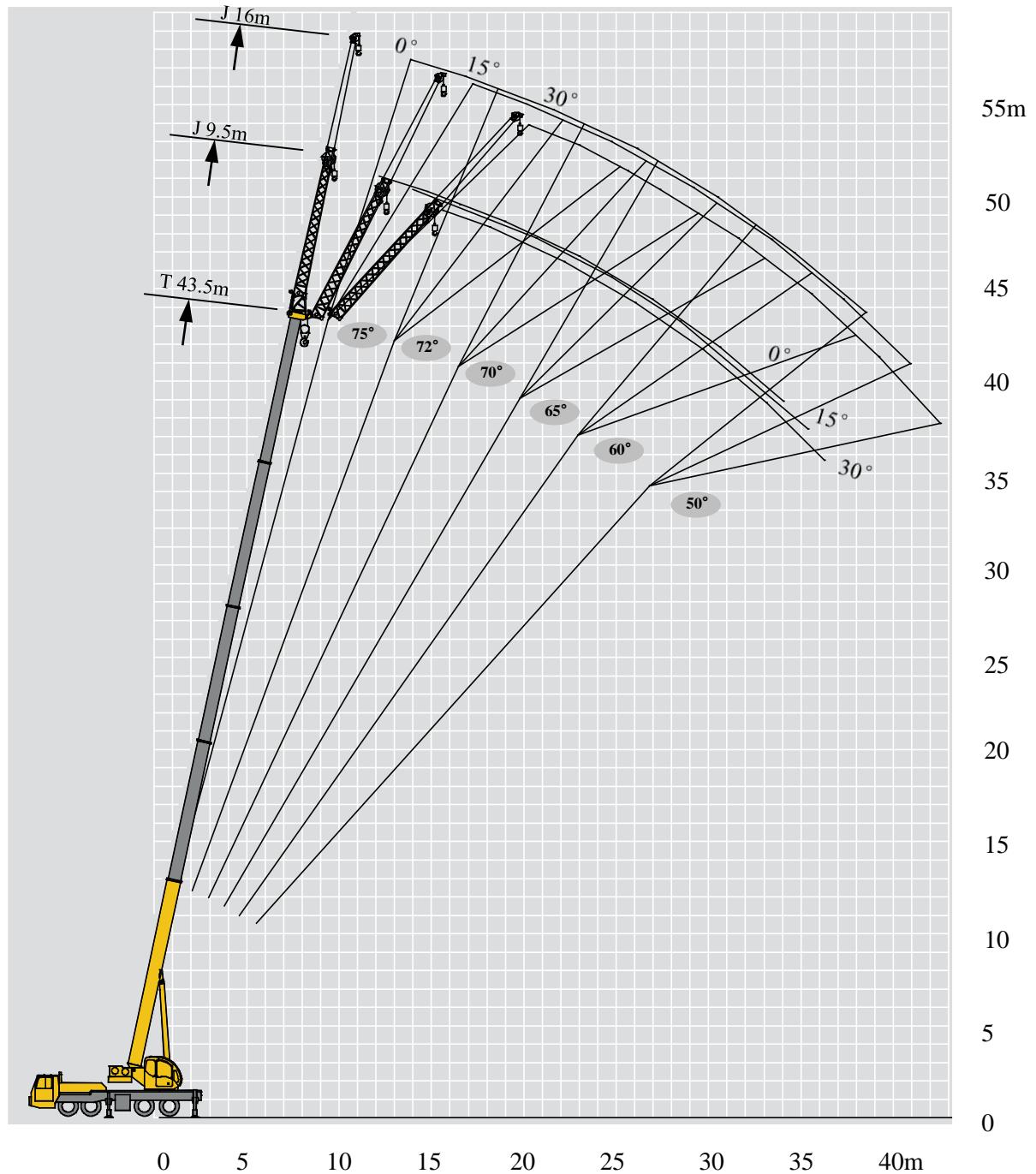
T 11.4~43.5m

	11.4-43.5m T	6.1m×4.7m	360°	5.5t					
	11.4m	15.41m	19.42m	25.44m	31.46m	37.48m	43.5m		
3	50000	45000							3
3.5	50000	45000							3.5
4	48000	45000	35000	25000					4
4.5	36400	36400	33000	25000					4.5
5	28600	28600	28700	25000	18500				5
5.5	23300	23300	23300	24800	18500				
6	19500	19500	19500	20800	18500				6
7	14300	14200	14200	15400	16200	14000			7
8	10900	10900	10900	12000	12700	12900	9500		8
9	8500	8500	8500	9500	10200	10400	9500		9
10		6800	6700	7800	8400	8600	8900		10
12		4300	4300	5300	5900	6100	6400		12
14			2700	3700	4200	4500	4700		14
16			1600	2500	3100	3300	3500		16
18				1600	2200	2500	2700		18
20				1000	1500	1800	2000		20
22					1000	1300	1500		22
24					500	800	1000		24
26						500	700		26

起升高度曲线图

Lifting heights

副臂
Jib



起重性能表

Lifting capacities

T 43.5m

	43.5m	9.5-16m	6.1m×7.1m	360°	6.5t/5.5t	16 m	
	0°	15°	30°	0°	15°	30°	
78	4500	3000	2500	2800	1500	1200	78
75	4000	2700	2400	2200	1300	1100	75
72	3500	2500	2300	1900	1200	1000	72
70	3200	2300	2200	1800	1200	950	70
65	2550	2100	1900	1600	1000	850	65
60	2000	1700	1600	1200	900	750	60
55	1200	1000	900	850	700	650	55
50	600	500	500	450	400	350	50

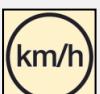
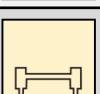
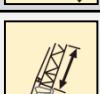
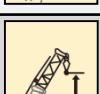
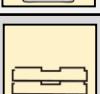
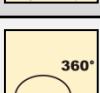
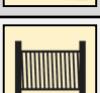
	43.5m	9.5-16m	6.1m×4.7m	360°	6.5t/5.5t	16 m	
	0°	15°	30°	0°	15°	30°	
78	4500	3000	2500	2800	1500	1200	78
75	3800	2700	2400	2200	1300	1100	75
72	2700	2400	2200	1800	1200	950	72
70	2100	1900	1700	1600	1100	900	70
65	1150	1000	1000	800	600	600	65
60	500	500	400				60

符号标识

Description of symbols

常规标识

General symbols

	上车 Superstructure		底盘 Chassis
	起重能力 lifting capacity		车桥 Axe
	吊臂长度 Boom length		行驶速度 Driving speed
	工作幅度 Radius		爬坡能力 Gradability
	吊臂仰角 Boom position		轮胎 Tyres
	主臂起升高度 Hoist height with Boom		支腿 Outriggers
	固定副臂长度 Fixed jib length		吊钩 Hook block
	副臂起升高度 Hoist height with jib		平衡重 Counterweight
	360°全回转 360° rotation		卷扬 Winch

主要技术参数表

Transportation plan

类别 Category	项目 Item	单位 Unit	参数 Parameter		
尺寸参数 Dimensions	外形尺寸 (长×宽×高) Outline size (length×width×height)	mm	13930×2780×3630		
	轴距 Wheel base	mm	1470/4300/1350		
	轮距 (前/后) Track (Front/ Rear)	mm	2304/2075		
	前悬/后悬 Front/ Rear overhang	mm	2389/2065或2376/2064		
	前伸/后伸 Front/ Rear extension	mm	2131/226或2145/226		
重量参数 Weight	最大允许总质量	kg	42200		
	一轴、二轴 1st and 2nd axle	kg	16200		
	三轴、四轴 3rd and 4th axle	kg	26000		
动力参数 Power	发动机型号 Engine model	—	WD615.338 国III	D10.38A-40 国IV	D10.38-50 国V
	额定功率/转速 Engine rated power/rpm	kW/(r/min)	276/2200		276/2000
	最大净功率/转速 Max. net power/rpm	kW/(r/min)	274/2200		274/2000
	最大输出扭矩/转速 Engine rated torque/rpm	N.m/(r/min)	1500/1100-1600		1560/1200-1500
行驶参数 Travel	最高车速 Max. travel speed	km/h	85		80
	最低稳定车速 Min. travel speed	km/h	2 ~ 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	29.2		
	最小离地间隙 Min. ground clearance	mm	327		
	接近角 Approach angle	°	19		
	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	%	42		
	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

Transportation plan

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	50
	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	3800
	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	1129
		最长主臂+副臂 Fully-extended boom + Jib	kN.m	620
	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	11.9
		最长主臂 Fully-extended boom	m	44
		最长主臂+副臂 Fully-extended boom + Jib	m	58.1
	起重臂长度 Boom length	基本臂 Base boom	m	11.4
		最长主臂 Fully-extended boom	m	43.5
		最长主臂+副臂 Fully-extended boom + Jib	m	59.5
	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 extended 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
			放 Extending	s
		垂直支腿 Outrigger jack	收 Retracting	s
			放 Extending	s
	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
		副起升机构 Auxiliary winch		m/min
噪声 Noise	机外辐射 Exterior noise level		dB (A)	≤124
	司机位置处 Noise level at seated position		dB (A)	≤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 to correctly calculate the load weight.
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.
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 length given in the rated load charts should accord with the telescoping code of boom sections .



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