

XCT80_Y 汽车起重机 / Truck Crane

技术规格书

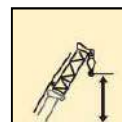
Technical Specifications



80t



45.5 m



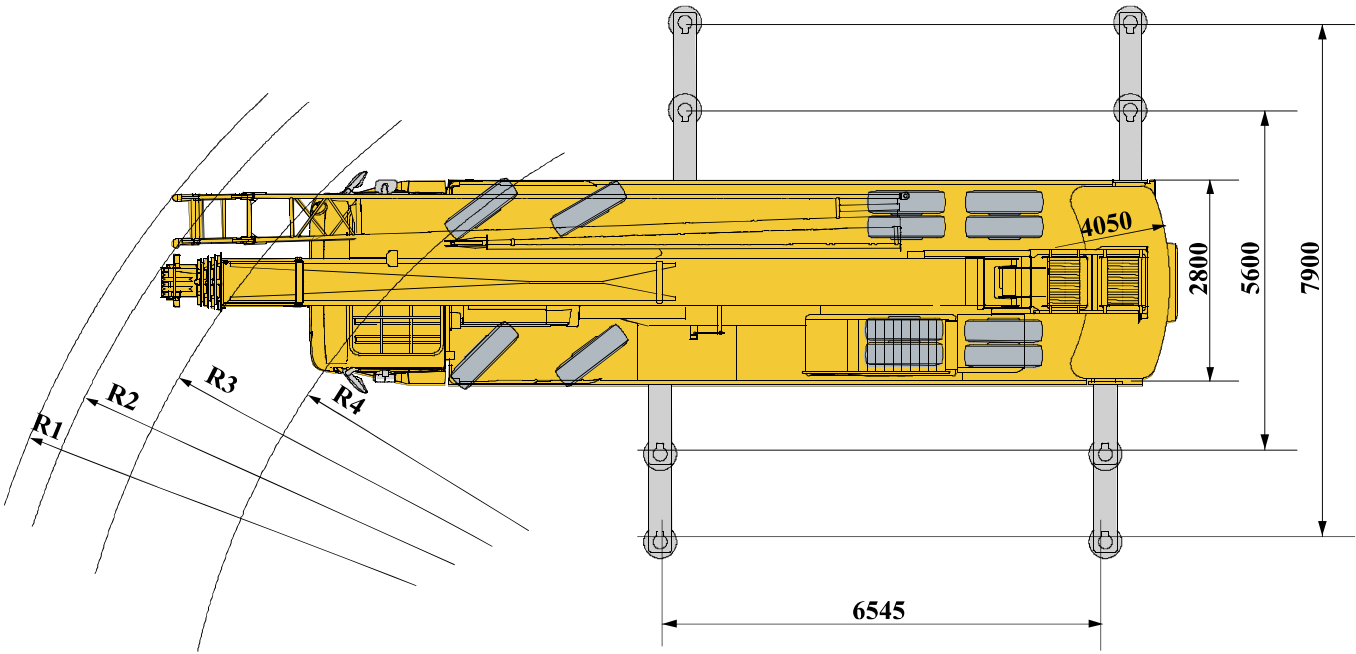
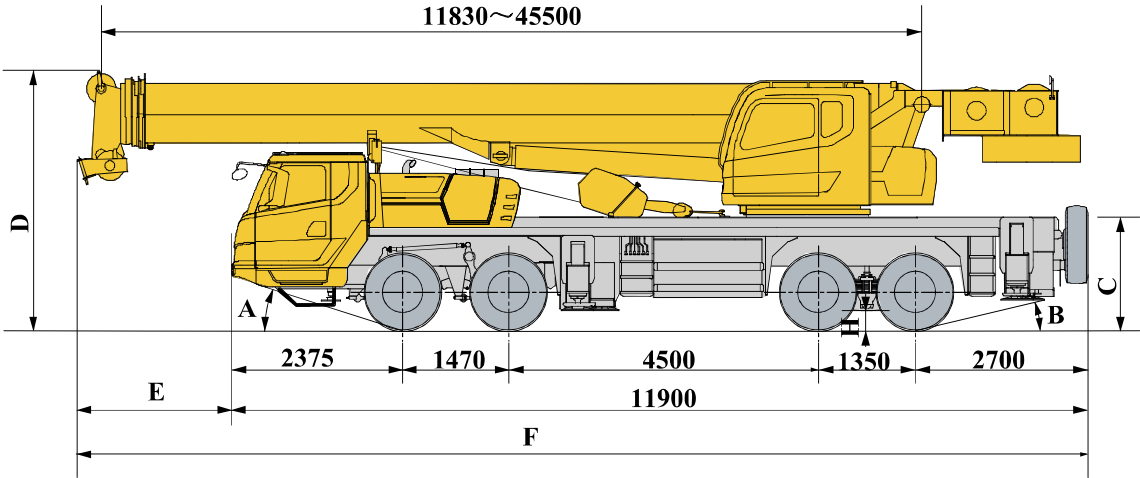
60.9 m



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尺寸参数 (右驾 Right-hand drive)
Dimensions



	A	B	C	D	E	F	R1	R2	R3	R4	H
12.00R24	22°	13°	1725	3770	1690	14085	14500	14100	13500	12000	305

技术规格

Technical specifications

	Chassis	Configuration	Configuration	
Frame	Designed and manufactured by XCMG, it is made of high strength steel with fully covered walking surface and anti-torsion box-typed structure.	●	Axles	High strength axle, better reliability ●
Outriggers	Four outrigger arranged, with 5th jack is available. Four outriggers arranged in H-shape are hydraulically controlled by control levers. Double-stage outrigger beam is adopted. 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. With 5th jack is available. There is a check valve fitted in each outrigger cylinder, and a double-way hydraulic valve fitted in each jack cylinder. Outrigger float diameter: $\phi 450$ mm Reaction force of outrigger at max. lifting load: 700kN	●	Suspensions	Rubber spring suspensions with V-type push rods are adopted for rear suspension system, leading to improved chassis stability and reduced tire wear.
Engine	Dongfeng Cummins, In line, water cooled, four-stroke, supercharging, high pressure common rail QSL8.9-C360-30, with rated power of 265kW/2100rpm and max. torque of 1500Nm/1400-1600rpm, compliant to China III emission standard. Fuel tank capacity: 300L. CHINA NATIONAL HEAVY DUTY TRUCK GROUP, In line, water cooled, four-stroke, supercharging, high pressure common rail WD615.334, 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: 300L.	●	Tires	12.00R24, low noise during traveling and strong bearing capacity . ●
Transmission	Mechanical transmission 10JSD140TB, made by Shaanxi Fast Gear Co., Ltd., manual flexible shaft control, 10-forward speed and 2-reverse speed with a synchronizer.	●	Braking	Service braking: foot pedal operated double-circuit air pressure brake. 1st circuit acts on the wheels of 1st and 2nd axles, and 2nd circuit acts on the wheels of 3rd and 4th axles. Parking brake: spring-loaded brake, acting on wheels of axles 2,3 and 4; Auxiliary brake: engine exhaust brake, which is safe and reliable, and will prolong the service life of brake lining. ●
			Steering	Mechanically steering mechanism with a hydraulic booster. ●
			Driver's cab	Luxurious driver's cab. Safety glass, electrically operated door window lifters, adjustable seats, electrical adjustable mirrors, steering wheel adjustable in height and angle, liquid crystal display and radio-cassette player are equipped. Heater and air conditioner are standard. ●
			Electrical system	24V DC, two sets of 12 V battery in series. Generator: 28 ± 0.3 V-70 A ●
			Safety devices	Double-way hydraulic valve ●
				Beacon lamp ○
				Backup camera ○
				ABS ○

技术规格

Technical specifications

	Superstructure	Configuration	Operator's cab	
Frame	Designed and manufactured by XCMG, made of high strength steel.	●		
Hydraulic system	Variable pump driven by chassis engine, used for hoisting, elevating and telescoping operations. Load sensing proportional multi-way change valve with impact resistance valve and cavitation-proof valve integrated; air-cooled hydraulic oil radiator. Tank capacity: 972L	●		●
Operating mode	Pilot hydraulic control is used for controlling the superstructure. All crane movements are controlled by hydraulic pump and proportional valve through two control levers at left and right sides. Pilot hydraulic control is used for controlling the superstructure. All crane movements are controlled by hydraulic pump and proportional valve through two control levers at left and right sides.			
		●		
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.	●		
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.	●		
Slewing system	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. There is a horn switch fitted on the slewing control lever.	●		
Elevating system	A front support double-acting hydraulic cylinder is equipped for elevating operation, with a balance valve fitted.	●		
			C o m b i n e d counterweight	●
			Safety devices	●
				○
				○
				○
			Hook block	●
				○

技术规格

Technical specifications

	Boom and jib system	Configuration
Boom	Comprised of one basic boom and four telescoping boom sections, with U-shaped cross-section, welded structure and adopts anti-distortion design and is made of high strength structural steel. Single-cylinder plus ropes telescoping system Boom length: 11.83m~45.5m	●
Swing-away jib	Two-section lattice jib, welded structure. Three offset angles of 0°, 15° and 30°. Fixed jib length: 9.5m~16m.	●
Single top	Installed at the boom top, used for single line operation. Its lifting performance is the same as that for boom, but the max. lifting load could not exceed 4.5t.	●

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	3	4	总重量 Total weight
t	10	10	13	13	46



吊钩 Hook	倍率 Parts of lines	吊钩重量 Weight (kg)	吊钩尺寸 Dimensions (mm)	备注 Remarks
80t	13	616	1325×544×537	单钩 Single hook , 标配 Standard
35t	10	403	1334×544×419	单钩 Single hook , 选装 optional
4.5t	1	100(侧置副臂Swing-away jib)	536×298×298	单钩 Single hook , 标配 Standard

作业速度 Working speeds



12.00R24



2 ~ 50



40%



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, 单绳, 第四层 m/min, single line, 4th layer	6.5t	20 mm/230m
	0-90 m/min, 单绳, 第四层 m/min, single line, 4th layer	6.5t	20mm/145m
	0-2r/min		
	从-1°抬起至81°约55s Approx. 55s for boom elevation from -1° to 81°		
	从11.83m伸出至45.5m约110s Approx. 110s for boom extension from 11.4m to 43.5m		

臂架组合方案
Boom / Jib combinations

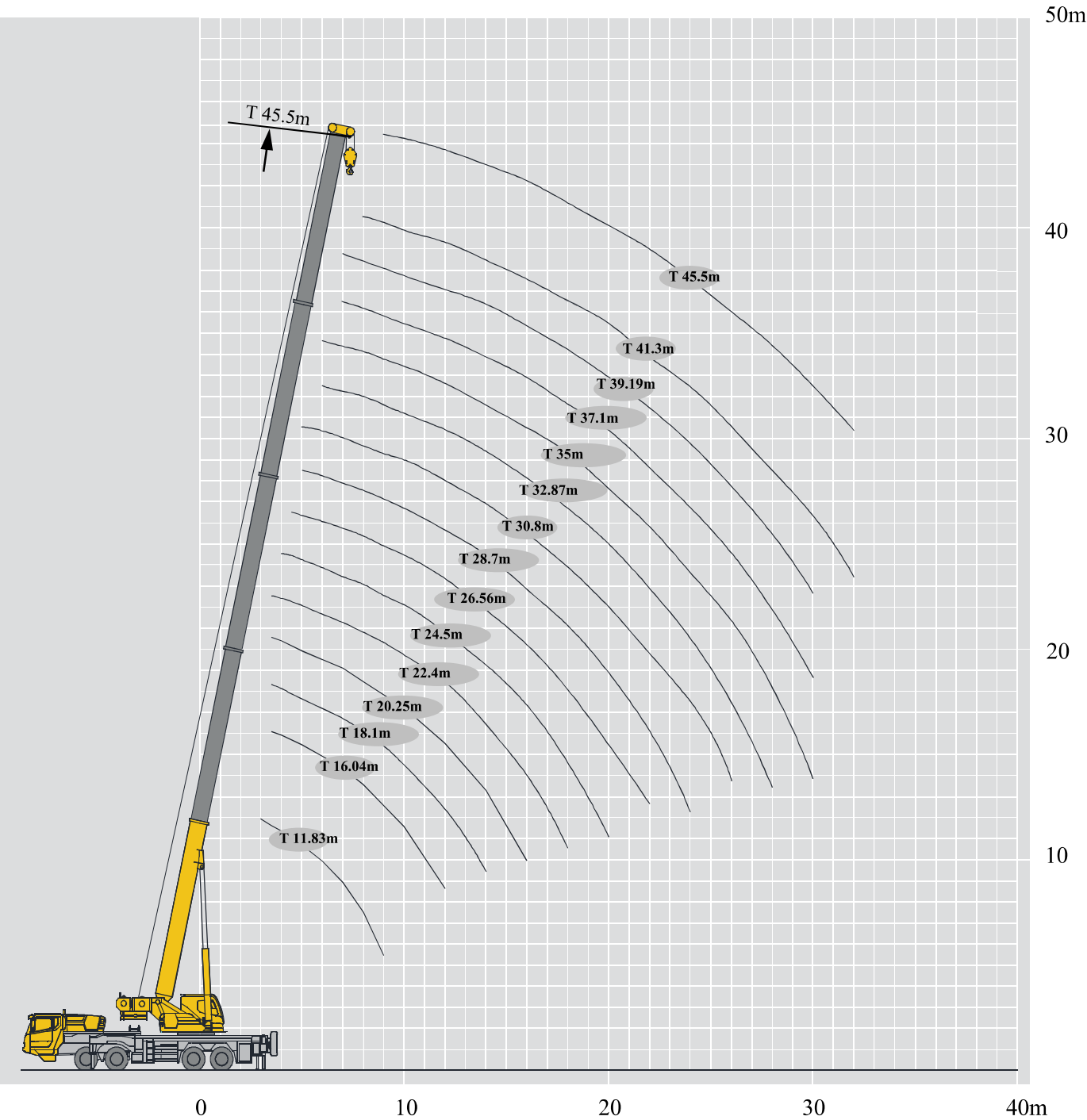


主臂
Telescopic boom

T : 11.83~45.5m

副臂
Jib

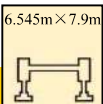
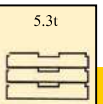
T : 45.5m
J : 9.5m/16m



起重性能表

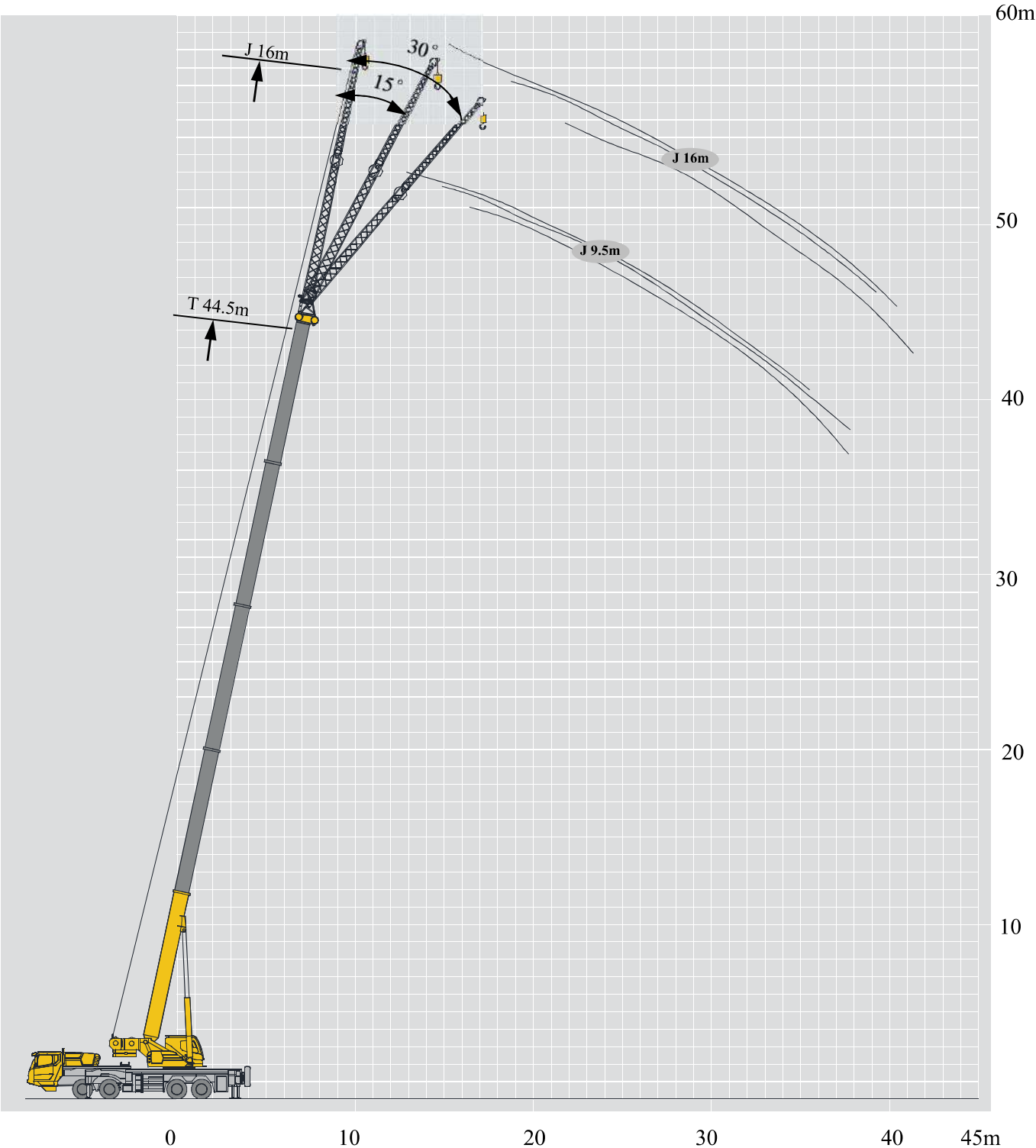
Lifting capacities

T 11.6~44.5m

																	
	11.83	16.04	18.1	20.25	22.4	24.5	26.56	28.7	30.8	32.87	35	37.1	39.19	41.3	45.5		
3	80															3	
3.5	75	55														3.5	
4	65	55														4	
5	52	50	31	40	30	29.5										5	
6	44	42	31	36	30	27.2	30	29.2	19.9	22.5						6	
7	36.5	35	30.5	32.5	30	25.1	28	28.3	18.5	21.4	18.4	14.0	15.5			7	
8	27.5	27.2	28.8	26.9	29	23.6	25.5	26.5	17.2	19.8	17.4	13.6	15.3	11.6	9.8	8	
9	21.7	21.4	23.7	21.1	23	22.4	22.6	24	16.2	18.4	16.4	12.9	14.5	11.6	9.6	9	
10		17.4	19.5	17.1	18.9	20.3	18.4	19.7	15.2	17.1	15.6	12.0	13.6	11.5	9.6	10	
12		12.1	14.1	11.8	13.5	14.8	13.1	14.2	13.5	13.8	14.0	10.8	12.2	10.7	9.6	12	
14			10.6	8.6	10.1	11.3	9.7	10.8	11.8	10.4	11.3	9.6	10.9	9.8	8.9	14	
16				6.2	7.8	9	7.4	8.5	9.4	8.1	8.9	8.5	8.5	8.6	8.2	16	
18					6.1	7.3	5.7	6.7	7.6	6.4	7.2	7.6	6.8	7.5	7	18	
20						5.9	4.4	5.4	6.3	5	5.8	6.5	5.5	6.1	5.8	20	
22							3.4	4.4	5.2	4	4.8	5.5	4.4	5.1	4.7	22	
24								3.6	4.4	3.2	4	4.6	3.6	4.2	3.9	24	
26									3.7	2.5	3.3	3.9	2.9	3.5	3.2	26	
28										1.9	2.7	3.3	2.3	3	2.6	28	
30											2.2	2.8	1.9	2.5	2.1	30	
32												2.4	1.5	2	1.7	32	
34														1.7	1.4	34	

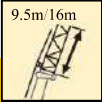
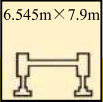
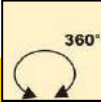
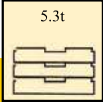
起升高度曲线图
Lifting heights

副臂
Jib



起重性能表
Lifting capacities

T 44.5m

45.5m 9.5m/16m 6.545m×7.9m 360° 5.3t							
9.2m				16m			
	0°	15°	30°	0°	15°	30°	
80°	4.5	4	3.2	2.9	2.4	1.3	80°
78°	4.2	3.8	3.2	2.9	2	1.1	78°
75°	4	3.7	3	2.8	1.6	1	75°
72°	3.8	3.5	2.7	2.5	1.4	0.9	72°
70°	3.6	3.2	2.6	2.2	1.2	0.9	70°
65°	2.6	2.4	2.2	1.6	1	0.9	65°
60°	1.7	1.6	1.5	1.2	0.9	0.8	60°
55°	1.2	1.1	1	0.9	0.8	0.7	55°
50°	0.7	0.7	0.7				50°

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 .

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 Axle
	吊臂长度 Boom length		行驶速度 Driving speed
	工作幅度 Radius		爬坡能力 Grade ability
	吊臂仰角 Boom angle		轮胎 Tires
	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
	副臂安装角 Jib offset angle		平衡重 Counterweight
	副臂起升高度 Hoist height with jib		卷扬 Winch
	使用第五支腿360°全回转 360° operation of the boom with 5th jack down		360°全回转 360° operation of the boom

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	14085×2800×3770	
	轴距 Wheel base	mm	1470+4500+1350	
	轮距 (前/后) Track (Front/ Rear)	mm	2316/2063	
	前悬/后悬 Front/ Rear overhang	mm	2375/2700	
	前伸/后伸 Front/ Rear extension	mm	1690/0	
重量参数 Weight	最大允许总质量 Total vehicle mass in travel configuration	kg	46000	
	轴荷 Axle load	一轴 1st axle	kg	10000
		二轴 2nd axle	kg	10000
		三轴 3rd axle	kg	13000
		四轴 4rd axle	kg	13000
动力参数 Power	发动机型号 Engine model	——	QSL8.9-C360	WD615.334
	额定功率/转速 Rated power/rpm	kW/(r/min)	265/2100	247/2200
	最大净功率/转速 Max. net power/rpm	kW/(r/min)	250/2100	245/2200
	最大输出扭矩/转速 Max. output torque/rpm	N.m/(r/min)	1500/1400-1600	1350/1100-1600
行驶参数 Travel	最高车速 Max. travel speed	km/h	50 (康明斯配置) / 90 (杭发配置)	
	最低稳定车速 Min. stable 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	≤30.2 (侧置副臂 Swing-away jib) ≤30.24 (腹置副臂 Under slung jib)	
	最小离地间隙 Min. ground clearance	mm	305	
	接近角 Approach angle	°	22	
	离去角 Departure angle	°	13	
	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	%	≥40	
	百公里油耗 Fuel consumption per 100 km	L	38	
噪音 Noise	加速行驶机外噪声 Exterior noise level	dB(A)	≤84	
	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	80	
	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	平衡重处 Counterweight	mm	4050	
		卷扬处 winch	mm	4190	
	最大起重力矩 Max. load moment	基本臂 Base boom	kN.m	2587	
		最长主臂 Fully-extended boom	kN.m	1286	
		最长主臂+副臂 Fully-extended boom + Jib	kN.m	706	
	支腿跨距 Outrigger span	纵向 Longitudinal	m	6.545	
		横向 Lateral	m	7.9	
	起升高度 Hoist height	基本臂 Base boom	m	12.2	
		最长主臂 Fully-extended boom	m	46	
		最长主臂+副臂 Fully-extended boom + Jib	m	60.9	
	起重臂长度 Boom length	基本臂 Base boom	m	11.83	
		最长主臂 Fully-extended boom	m	45.5	
		最长主臂+副臂 Fully-extended boom + Jib	m	61.5	
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	≤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	≤30
			放 Extending	s	≤30
		垂直支腿 Outrigger jack	收 Retracting	s	≤30
			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	≥145	
副起升机构 Auxiliary winch		m/min	≥90		
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	



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