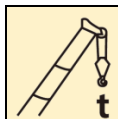


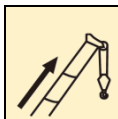
XCT60_Y_1汽车起重机 / Truck Crane

技术规格书

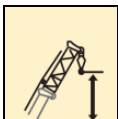
Technical specifications



60t



45.5m



62m

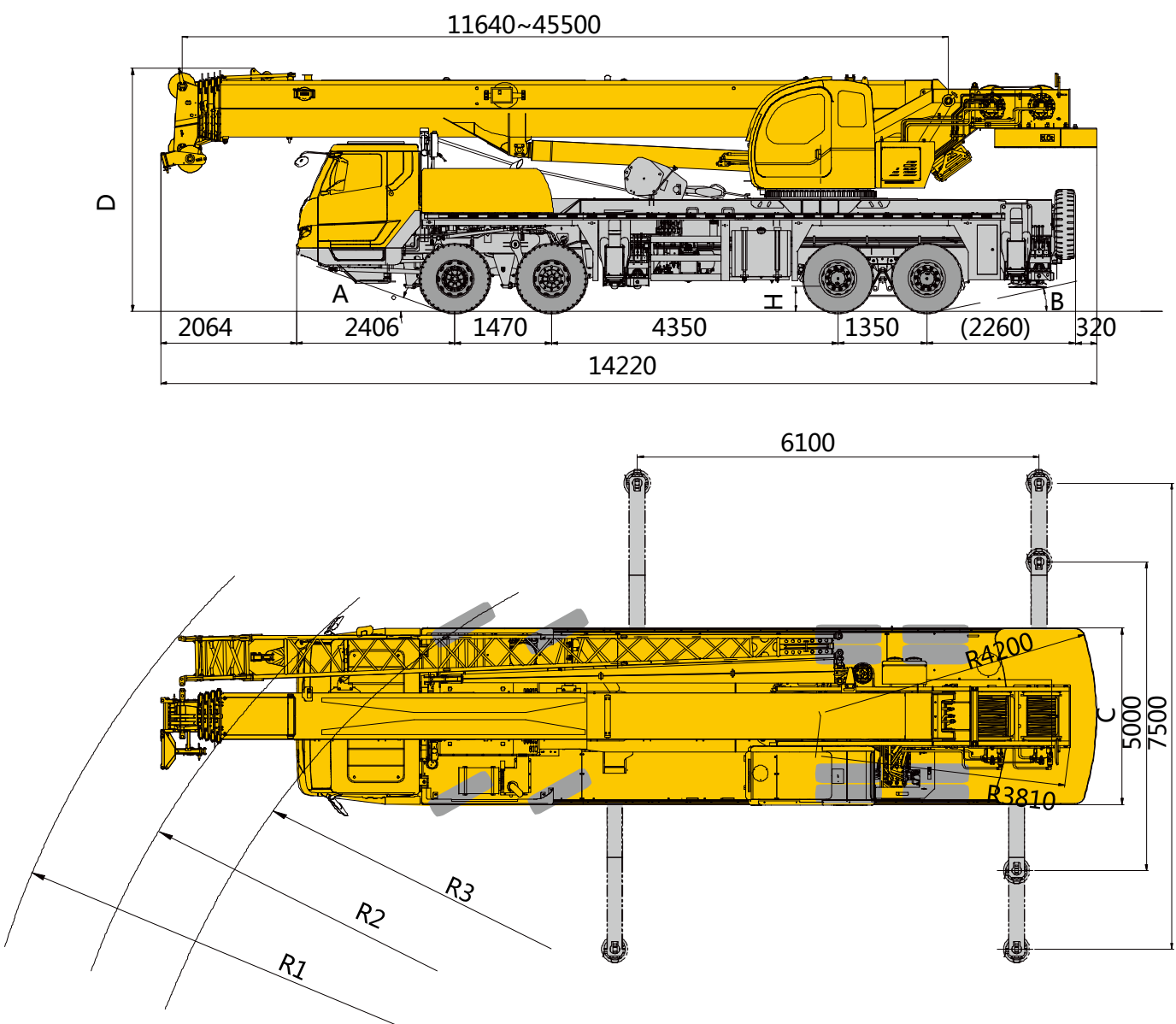


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尺寸参数
Dimensions



	A	B	C	D	R1	R2	R3	H
12.00R22.5 ; 315/80R22.5	11.5°	13°	2700	3590	15000	13400	12000	266

技术规格

Technical specifications



底盘

车架	徐工设计、制造，全覆盖式走台板，防扭转箱型结构，高强度钢材制造。	●
支腿	4支腿，H形布置，采用双级水平支腿，水平伸缩和垂直伸缩由液压控制，底盘两侧装有手动操纵手柄，且装有水平仪、照明灯和调速按钮，且垂直支腿带有液压双向锁。 支脚盘尺寸：φ450mm 最大起重量时支腿反力：513kN	●
支腿测长	实时监测支腿长度	○
发动机	SC9DF340Q5，直列六缸水冷电控柴油发动机，额定功率251kW/1900rpm，最大扭矩1450Nm/（1100~1400）rpm； 最大基准扭矩：1450N.m；欧五排放标准。 燃油箱容积：360L； 尿素箱容积：35L。	●
变速箱	法士特9档变速箱，机械操纵，带同步器。	●
车桥	高强度车桥，1,2桥转向，3,4桥驱动。	●

悬挂	前桥采用钢板弹簧。后桥采用橡胶弹簧悬架加V型推力杆结构，增加底盘行驶稳定性。	●
轮胎	12个轮胎，1个备胎，1、2桥单胎，3、4桥双胎 1、2桥轮胎规格：315/80R22.5 3、4桥轮胎规格：12R22.5	●
制动	行车制动：双回路气压制动，作用于所有车轮。 驻车制动：弹簧储能制动，作用于2,3,4轴车轮。 辅助制动：发动机排气制动和缓速制动。	●
转向	1、2桥机械转向+液压助力。	●
驾驶室	配置大视野的前挡风安全玻璃、电动雨刮器，电动玻璃升降器，带有冷暖空调，可实现吹面吹脚，除霜、除雾功能，带有收放机等。主驾采用机械减震式座椅，满足人员的操纵舒适性及乘坐方便性需求，副驾单人座椅。 配1kg灭火器。	●
电气系统	直流24V，串联12V的电池组2个。	●
倒车影像	辅助倒车操作	○
防火帽	安装在催化消声器上，防止排出废气产生火焰。	○

技术规格

Technical specifications

		上车	
结构	徐工设计、制造，高强度钢材制造。		●
液压系统	底盘发动机通过变速箱驱动齿轮泵用于起升、变幅、伸缩、回转动作。专用节流负载敏感设计，系统最低流量更稳定，系统刚度更合理，作业微动性、平顺性更突出；采用分合流技术，起升、变幅、伸缩双泵合流；风冷式液压油散热器。 液压油箱容积：880L		●
操纵方式	先导液比例操纵，无级调速，由左右2个操纵手柄控制。		●
起升机构	双折线绳槽卷筒，由液压马达驱动，内置行星齿轮减速器和常闭式制动器，并带有平衡阀。主、副起升机构独立操作。		●
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，内置行星齿轮减速器和常闭式制动器，可连续回转360°，具有动力控制或自由滑转的功能，可无级调速。		●
回转报警灯			○
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，装有前景窗，安全玻璃，车窗装有遮阳板，操纵员座椅靠背可倾斜定位，操纵杆安装在座椅两侧的扶手台上，带前窗、顶窗装有雨刮器。		●
空调	单冷空调		●
	冷暖空调		○
电气系统	直流24V，2个电池串联。		●
安全装置	液压平衡阀、液压溢流阀、液压双向锁、力矩限制器；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；		●
卷扬监视装置	卷扬监视装置，实时监控卷扬状态。		○
力矩限制器	当实际力矩接近过载时，发出听视觉警报，并在过载之前自动停止危险动作。具有超载记忆功能（黑匣子）和故障自诊断功能。		●
起重钩	60t钩 35t钩 5t钩		● ○ ●
平衡重	总重9.5t，有9.5t、5t共2种组合方式。		●
主臂	主臂长度：11.6m~45.5m 由1节基本臂和4节伸缩臂组成，“U”形截面的筒形焊接结构，高强度结构钢制造，双缸绳排伸缩机构。		●
副臂	副臂长度：9.5m/16m 一节桁架+二节箱型结构，具有0°、15°、30°三种固定副臂安装角		●
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，但最大起重量不超过5000kg。		●
风速仪			○
角度指示器			○
旋转报警灯			○

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

符号说明：

● —— 表示标准配置；

○ —— 表示选装配置。

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.	●	Suspension The front axles adopt leaf springs. Rubber spring suspensions with V-type push rods are adopted for rear axles, leading to improved chassis stability.
Outriggers	Four outriggers, H-type arrangement, double-stage outrigger beam. Hydraulic control is used to extend and retract the outrigger beams and jacks. There are manual control levers fitted at each side of the chassis. There is a level gauge, outrigger lamp and a speed regulating button on each control panel. Each outrigger jack is equipped with a double-way hydraulic valve. Float dimension: φ450mm Reaction force of outrigger at max. lifting load: 513kN	●	Tires 12 tires and 1 spare tire, 1st and 2nd axles are equipped with single tire, 3rd and 4th axles are equipped with double-tire. Tire specifications: 315/80R22.5 for 1st and 2nd axles; 12R22.5 for 3rd and 4th axles. Braking system Service brake: dual-circuit air pressure brake, acting on all wheels. Parking brake: spring-loaded brake, acting on wheels of axles 2,3 and 4. Auxiliary brake: engine exhaust brake, engine retarder brake
Outrigger length sensor	The length sensor is used to detect the outrigger length in real time.	○	Steering system Mechanical steering mechanism with a hydraulic booster for 1st and 2nd axles.
Engine	SC9DF340Q5, in-line, 6-cylinder, water cooled, electric control diesel engine, with rated power of 251kW/1900rpm and max. torque of 1450Nm/ (1100~1400) rpm. Max. reference torque: 1450N.m; The engine complies with Euro V emission standard. Fuel tank capacity: 360 L. AdBlue tank capacity: 35 L.	●	Driver's cab Windshield with wide visual field, electric wiper and electric window lifters are available; heater and air conditioner can let the air blow face or feet or realize defrosting; radio player is also equipped. A mechanical shock absorber seat for the driver and a simple sleeper for the co-driver's seat are installed to supply comfort and reduce fatigue. It is equipped a co-driver's seat
Transmission	9-speed FAST Transmission with synchronizer; mechanical control.	●	Electric system 24 V DC, two sets of 12 V battery in series.
Axles	High strength axles, 1st and 2nd axles are for steering, and 3rd and 4th axles are for driving.	●	Rear view camera Auxiliary for the reversing operation Spark arrestor The spark arrestor is installed on the catalytic muffler to prevent the exhaust gas from generating flames

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

Symbols:
● — Standard configurations;
○ — Optional configurations.

技术规格

Technical specifications

	Superstructure			Safety device	Hydraulic counterbalance valve, hydraulic relief valve, hydraulic double-way valve and LMI are available. 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.	●
Frame	Designed and manufactured by XCMG, made of high strength steel.	●	●	Winch monitor	Winch monitoring device is equipped to monitor the winch status in real time.	○
Hydraulic system	The chassis engine drives the gear pump via transmission to carry out lifting, luffing, telescoping and slewing operations. Special throttle load sensitive design, more stable systemminimum flow, more reasonable systemrigidity, more prominent fine-control and smoothness; confluence technology for lifting, luffing and telescoping double-pump confluence; air-cooled hydraulic oil cooler is fitted. Oil tank capacity: 880L	●		Load moment indicator	When the actual torque approaches overload, the LMI will warning and stop dangerous operation before overloaded. Overload memory function (black box) and fault self-diagnosis function are available.	●
Operating method	Pilot hydraulic proportional control through left and right levers is used for controlling the superstructure.	●		Hook blocks	60 t hook block	●
Winch system	Drum with Lebus grooves, driven by a hydraulic motor, with build-in planetary gear reducer, constant closed brake and balance valve. The main winch and auxiliary winch can be individually operated.	●	●		35 t hook block	○
					5 t hook block	●
				Combined counterweight	Total weight is 9.5t. There are two counterweight combinations, 5 t and 9.5 t.	●
Slewing system	A single-row, four-point contact-ball external toothed slewing bearing is driven by hydraulic motor, with built-in planetary gear reducer and constant-closed brake equipped, and may continuously slew 360°. Power control and free slewing function as well as stepless speed regulation are available.	●	●	Boom	Boom length: 11.6m~ 45.5m. 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. Double-cylinder plus ropes telescoping system.	●
Slewing beacon lamp		○		Jib	Jib length: 9.5m/16m Lattice structure for 1st section and box-type structure for 2nd section. Three offset angles of 0° , 15° and 30° .	●
Luffing system	A front support double-acting hydraulic cylinder is equipped for luffing operation, with a balance valve fitted.	●		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 5000kg.	●
Operator's cab	New steelcab is equipped with a front window. Safety glass and sun shield are used for windows. Standard controls and indicators are ergonomically arranged in the cab. The cab features a new ergonomic seat design with backrest adjustment and armrests with joysticks fitted. Wipers are fitted for the windshield and roof window.	●	●	Anemometer		○
	Air conditioning system	Air conditioner		●	Angle indicator	
	Heater & air conditioner	○			Beacon light switch	
Electrical system	24 V DC, two batteries in series.	●				

重量
Weight



Axle	1	2	3	4	总重量 Total weight
t	8	8	12.85	12.85	41.7 ¹⁾
t	9	9	14.1	14.1	46.2 ²⁾

1)转台尾部不携带4.5t活动式平衡重，主吊钩固定在车架处，副吊钩固定在车架尾部。

Removable counterweight of 4.5 t is not attached at the rear of turntable tail, main hook is attached to the frame, auxiliary hook is attached and secured at the frame tail, and left front outrigger float and right front outrigger float are removed and stored in the toolbox of the chassis.

2)重载转场：转台尾部携带全部平衡重，主吊钩固定在车头前方，副吊钩固定在车架尾部

2) Heavy load job site transfer: all counterweight slabs are carried on the tail of turntable, main hook block is fastened in front of the vehicle and auxiliary hook block is secured at the frame tail.



吊钩 Hook block	倍率 Parts of line	吊钩重量 Weight (kg)	吊钩尺寸 Dimensions (mm)	备注 Remarks
60t	12	517	544×537×1325	单钩 Single hook , 标配 Standard
35t	8	360	430×504×1362	单钩 Single hook , 选配 Optional
5t	1	100	300×300×535	单钩 Single hook , 标配 Standard

作业速度
Working speeds



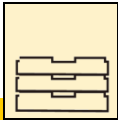
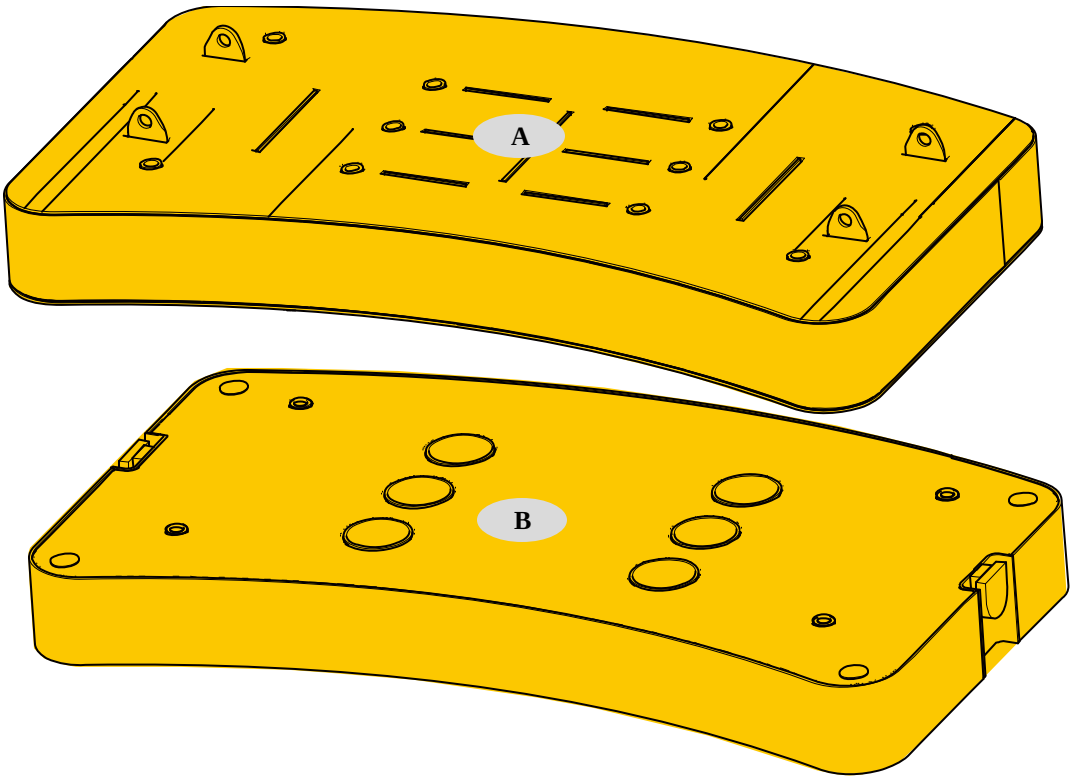
前桥 (Front axles) 315/80 R 22.5 后桥 (Rear axles) 12R22.5	2.5 ~ 80	45%
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作业机构 Operation mechanism	作业速度 Working speed	最大单绳拉力 Max. single line pull	钢丝绳直径/长度 Rope diameter/ length
	0-130 m/min , 单绳 , 第四层 m/min, single line, 4th layer	50kN	18mm/208 m
	0-130 m/min , 单绳 , 第四层 m/min, single line, 4th layer	50kN	18mm/140m
	0-1.6 r/min		
	从-1°抬起至80°约45s Approx. 45s for boom luffing from -1° to 80°		
	从11.6m伸出至45.5m约105s Approx. 105s for boom extending from 11.6 m to 45.5 m		

平衡重

Counterweight



平衡重 Counterweight	A	B
尺寸 (长×宽×高) mm Dimensions (L×W×H) (mm)	2680×1549×305	2680×1549×293
重量 t Weight (t)	5	4.5

工况模式 Working mode	9.5t	5t
组合形式 Combinations	A+B	A

臂架组合方案
Boom/ Jib combinations

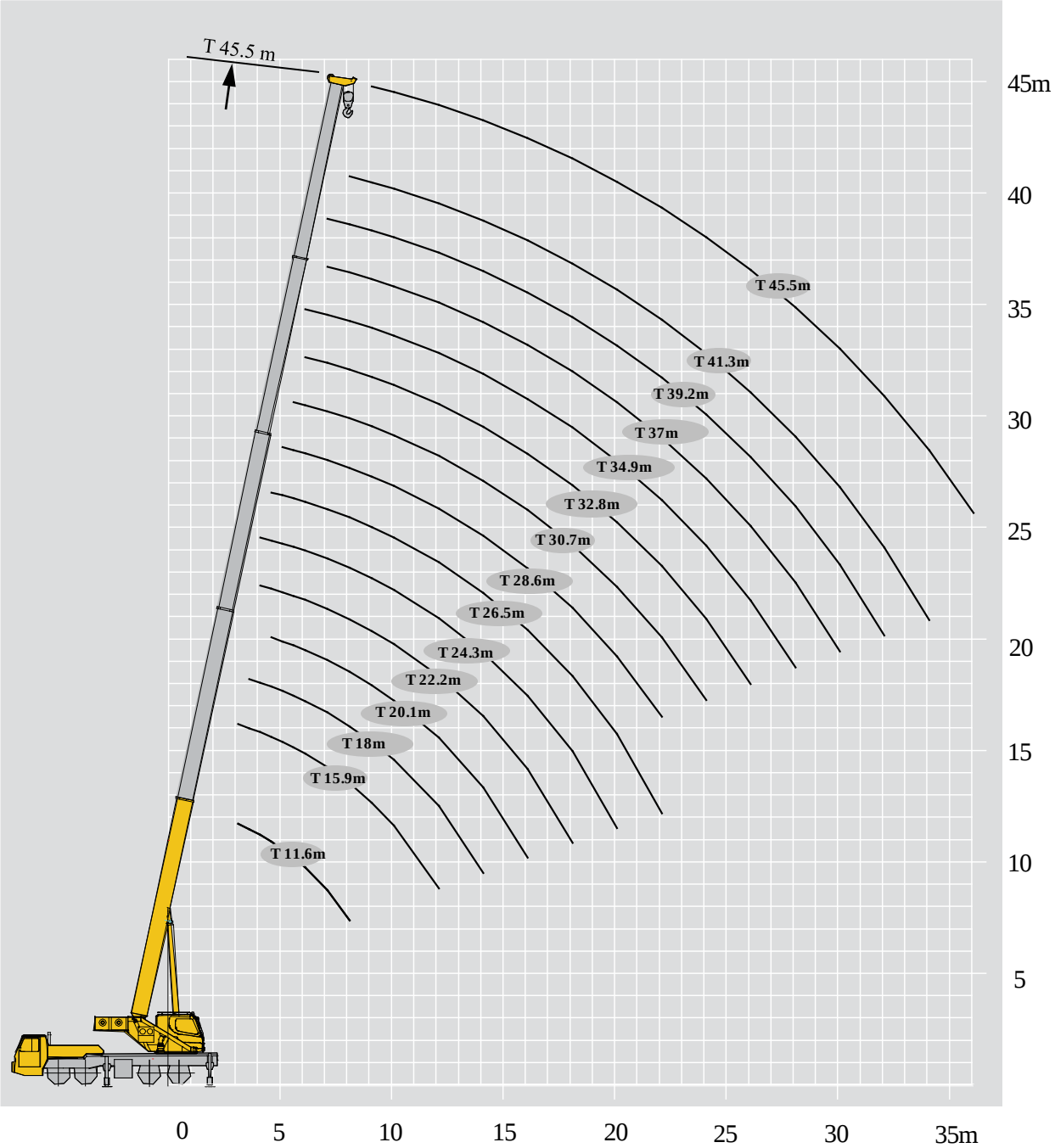


主臂
Telescopic boom

T : 11.6~45.5m

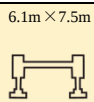
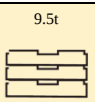
副臂
Jib

T : 45.5m
J : 9.5/16 m



起重性能表
Lifting capacities

T 11.6~45.5m

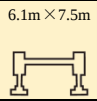
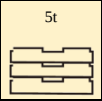
																				
	11.6	15.9	20.1	26.5	32.8	39.2	45.5	18.0	24.3	30.7	37.0	22.2	28.6	34.9	41.3					
3	60*															3				
3.5	50	46						26				26				3.5				
4	48	44	35					26	25			26				4				
4.5	43.5	42	35	26				26	25			26				4.5				
5	40.5	39	34	26				26	24.5			26	24.5			5				
6	32	31.6	30.7	26	20.2			26	23.5	18.3		26	24.5			6				
7	27.5	26.2	27	24.5	20.2	15.3		26	22	17.1	13	26	24	16.1		7				
8	23.5	23.2	23	22.6	20.2	15.2		23	20.6	15.6	12.3	23.2	21.5	15.3	11.5	8				
9	19.6	19.2	19.2	20.2	18.6	14.7	10.2	20.6	19.2	14.4	11.6	20	19.8	14.4	11.2	9				
10		16.8	16.5	17.8	17	14	10.1	17.7	17.6	13.5	11	17.2	17.6	13.4	10.7	10				
12		11.5	11.5	12.7	14.6	12.7	9.5	13.7	14.4	11.8	9.9	13.1	13.8	11.9	9.8	12				
14			8.4	9.5	10.2	11.1	8.5	10.5	11.1	10.3	8.9	9.9	10.6	10.6	9	14				
16			6.2	7.3	7.9	9.7	7.7	8	8.9	9.1	8	7.7	8.3	8.7	8.2	16				
18			4.3	5.7	6.3	6.7	7		7.2	7.5	7.1	6.1	6.7	7.1	7.3	18				
20				4.4	5	5.4	5.7		5.9	6.3	6.5	4.6	5.4	5.8	6.1	20				
22				3.5	4.1	4.5	4.7		4.6	5.3	5.5		4.4	4.8	5.1	22				
24				2.3	3.3	3.7	3.9			4.4	4.7		3.6	4	4.3	24				
26					2.6	3	3.3			3.8	4		2.8	3.3	3.6	26				
28					1.8	2.4	2.7			3	3.4			2.8	3	28				
30					1.3	2	2.2				2.9			2.3	2.6	30				
32						1.6	1.8				2.5			1.7	2.1	32				
34						1	1.5				2				1.8	34				
36						0.7	1.1								1.5	36				
38							0.9								1	38				

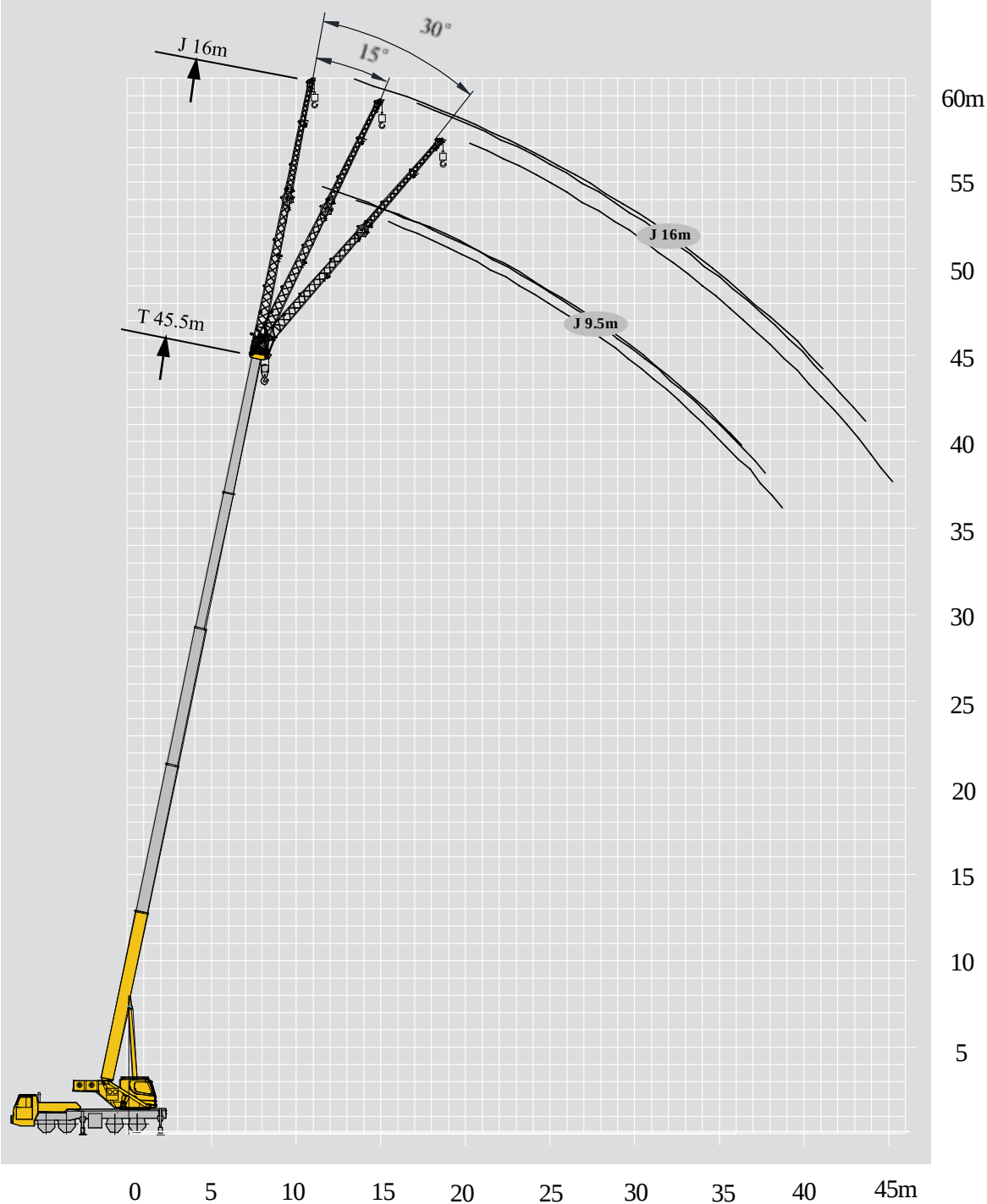
注：*起重能力等级
Remark: * Capacity class.

起重性能表

Lifting capacities

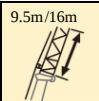
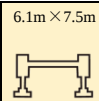
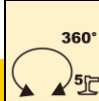
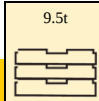
T 11.6~45.5m

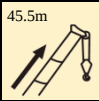
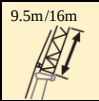
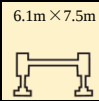
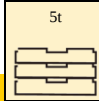
																
	11.6	15.9	20.1	26.5	32.8	39.2	45.5	18.0	24.3	30.7	37.0	22.2	28.6	34.9	41.3	
3	50															3
3.5	50	46						26				26				3.5
4	48	44	35					26	25			26				4
4.5	43.5	42	35	26				26	25			26				4.5
5	40.5	39	34	26				26	24.5			26	24.5			5
6	32	31.6	30.7	26	20.2			26	23.5	18.3		26	24.5			6
7	27.2	26.2	26.2	24.5	20.2	15.3		26	22	17.1	13	26	24	16.1		7
8	20.6	20.1	19.8	21.1	20.2	15.2		22.3	20.6	15.6	12.3	21.6	21.5	15.3	11.5	8
9	16.3	15.8	15.5	16.8	17.6	14.7	10.2	17.9	18.6	14.4	11.6	17.2	18	14.4	11.2	9
10		12.8	12.5	13.7	14.4	14	10.1	14.7	15.4	13.5	11	14.1	14.9	13.4	10.7	10
12		8.8	8.5	9.6	10.3	10.7	9.5	10.6	11.2	11.6	9.9	10	10.7	11.1	9.8	12
14			6	7	7.6	8.1	8.4	7.9	8.6	8.9	8.9	7.4	8	8.4	8.7	14
16			4.2	5.2	5.8	6.2	6.5		6.7	7	7.3	5.6	6.2	6.6	6.9	16
18				3.9	4.5	4.9	5.2		5.4	5.7	5.9	4.3	4.9	5.3	5.5	18
20				2.9	3.5	3.9	4.2		4.3	4.7	4.9		3.9	4.2	4.5	20
22				2.1	2.7	3.1	3.3			3.8	4		3.1	3.4	3.7	22
24					2	2.4	2.7			3.2	3.4		2.4	2.8	3	24
26					1.5	1.9	2.1			2.6	2.8			2.2	2.4	26
28						1.4	1.7				2.3			1.7	2	28
30							1.3				1.9			1.3	1.6	30
32											1.6				1.2	32



起重性能表
Lifting capacities

J 9.5/16m

 45.5m  9.5m/16m  6.1m × 7.5m  360°  9.5t  							
9.5m				16m			
	0°	15°	30°	0°	15°	30°	
80	5	3.5	3	3	2.2	1.5	80
78	4.8	3.4	2.6	3	2	1.4	78
75	4.3	3.3	2.5	2.8	1.8	1.3	75
72	4	3	2.4	2.5	1.6	1.2	72
70	3.6	2.8	2.3	2.2	1.5	1.2	70
65	3.2	2.6	2.1	1.9	1.3	1.1	65
60	2.2	2.1	2	1.6	1.2	1	60
55	1.6	1.5	1.4	1.2	1.1	0.9	55
50	1.1	1	0.9	0.8	0.7	0.6	50

 45.5m  9.5m/16m  6.1m × 7.5m  360°  5t  							
9.5m				16m			
	0°	15°	30°	0°	15°	30°	
80	5	3.5	3	3	2.2	1.5	80
78	4.8	3.4	2.6	3	2	1.4	78
75	4.3	3.3	2.5	2.8	1.8	1.3	75
72	4	3	2.4	2.5	1.6	1.2	72
70	3.5	2.8	2.3	2.2	1.5	1.2	70
65	2.2	2	1.9	1.8	1.3	1.1	65
60	1.4	1.3	1.2	1.1	1	0.9	60

符号标识

Description of symbols

常规标识

General symbols

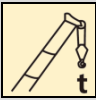
	上车 Superstructure		底盘 Chassis
	起重能力 Lifting capacity		车桥 Axle
	吊臂长度 Boom length		行驶速度 Driving speed
	工作幅度 Radius		爬坡能力 Grade ability
	吊臂仰角 Boom angle		轮胎 Tires
	主臂起升高度 Hoisting height with boom		支腿 Outriggers
	固定副臂长度 Fixed jib length		吊钩 Hook block
	副臂安装角 Jib offset angle		平衡重 Counterweight
	副臂起升高度 Hoisting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

Table of main technical parameters

XCMG XCT60 Y Truck Crane

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	60*
	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 At counterweight		mm	4200
	最大起重力矩 Max. load moment	基本臂 Base boom		kN.m	1985
		最长主臂 Fully-extended boom		kN.m	1235
		最长主臂+副臂 Fully-extended boom + Jib		kN.m	775
	支腿跨距 Outrigger span	纵向 Longitudinal		m	6.1
		横向 Lateral		m	7.5
	起升高度 Hoisting height	基本臂 Base boom		m	12.1
		最长主臂 Fully-extended boom		m	46
		最长主臂+副臂 Fully-extended boom + Jib		m	62
	起重臂长度 Boom length	基本臂 Base boom		m	11.6
		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	≤45
	起重臂全伸时间 Boom fully extending time			s	≤105
	最大回转速度 Max. slewing speed			r/min	≥1.6
	支腿收放时间 Outrigger extending and retracting time	水平支腿 Outrigger beam	收 Retracting	s	≤28
			放 Extending	s	≤28
		垂直支腿 Outrigger jack	收 Retracting	s	≤35
			放 Extending	s	≤35
	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)	≤109
	司机位置处 Noise level at seated position			dB (A)	≤85

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.)