

XCT70_BR汽车起重机 / Truck Crane

技术规格书

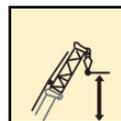
Technical specifications



70t*



46.5m



62.5m



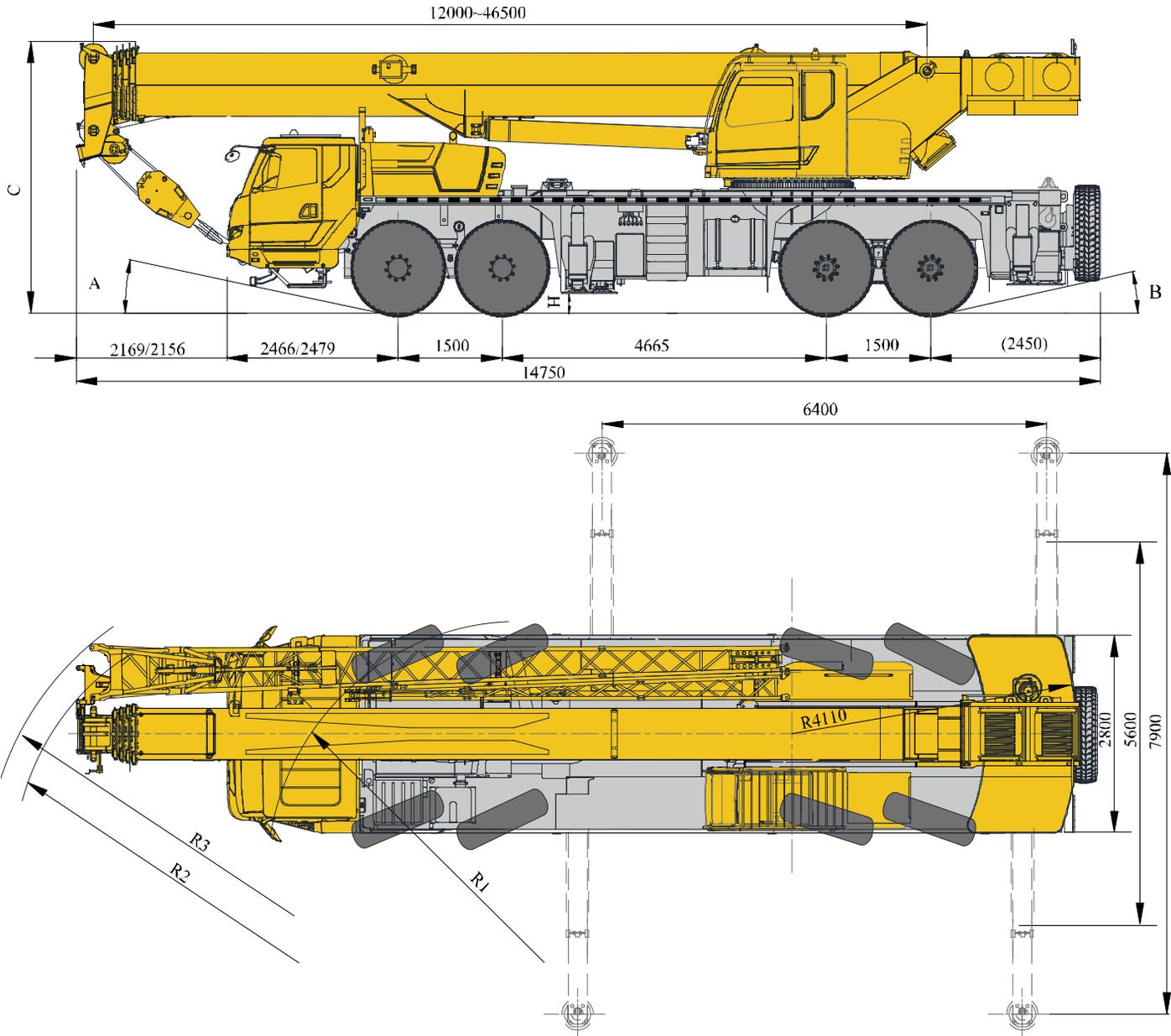
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尺寸参数 Dimensions



	A	B	C	H	R1	R2	R3
385/95R25	12°	13°	3830	280	9800	11900	12300

技术规格

Technical specifications



配置

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；纵向H形布置，操作杆控制液压动作，可由底盘任一侧同时或单独控制各支腿的动作，设有水平仪；带第五支腿；且垂直支腿带有液压双向锁 支脚盘尺寸：450×450mm 最大起重量时支腿反力：585kN	●
发动机	WP12G375E300，直列六缸水冷电控柴油发动机，潍柴，额定功率276kW/1900rpm，最大扭矩1800Nm/1000-1400rpm，国三排放标准。 燃油箱容积：350L。	●
变速箱	陕齿机械式变速箱，带缓速器，10个前进档，2个倒档，带同步器。	●
车桥	高强度车桥，1、2桥转向，3、4桥转向驱动。	●
悬挂	前悬架：纵置钢板弹簧式平衡悬架，筒式减震器 后悬架：采用双纵臂平衡悬架，上推力杆采用V型推力杆	●

轮胎	8个轮胎，1个备胎，前后桥都装单胎 轮胎规格：385/95R25	●
制动	行车制动：双回路气压制动，作用于所有车轮，标配ABS防抱死系统 驻车制动：弹簧贮能制动，作用于2-4轴车轮。 辅助制动：发动机排气制动和变速箱缓速制动。	●
转向	机械式转向机构，带有液压助力，带后轴转向系统。	●
驾驶室	新型复合结构驾驶室，全封闭、装备豪华舒适。性能上：优越的密封性和防腐蚀、防震设计；配置大视野的前挡风安全玻璃、后视镜，电控洗涤器，电子门窗升降器，带有除霜风挡的室内空气加热器，收放音机、丝网地垫等。副驾双座椅，可展开为简易卧铺。 2公斤灭火器；标配冷暖空调。	●
电气系统	直流24伏特，串联12伏特的电池组2个。 发电机，28伏特-80安培。	●

技术规格

Technical specifications

	配置
 结构	徐工设计、制造，高强度钢材制造。 ●
液压系统	<p>液压泵：底盘发动机驱动四联泵，定量泵用于起升、变幅、伸缩。</p> <p>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。 ●</p> <p>油路：风冷式液压油冷却器，有效降低系统油温。</p>
操纵方式	液控先导操纵系统，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	液压控制调速，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； ●
副起升机构	液压控制调速，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； ●
回转机构	四点接触球式回转支承，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°；具有动力控制或自由回转的功能，可无级调速；回转杆设有鸣响开关。 ●
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，座椅靠背可倾斜定位，操纵杆安装在座椅两侧的扶手台上；带推拉踏板；前窗顶窗装有雨刮器；标配冷暖空调。 ●

安全装置	<p>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；起升高度限位器；风速仪；三色报警灯；回转警示灯。 ●</p> <p>倒车影像、支腿压力检测、数据记录仪、卷扬监视器 ○</p>
组合配重	<p>总重10.5t，有2.6t、 2.6t ●</p> <p>5.3t、7.8t、10.5t 四 2.7t ●</p> <p>种组合方式。 5.2t ●</p>
起重钩	<p>55t钩 ●</p> <p>5t钩 ●</p> <p>35t钩 ○</p>

	系统	配置
 主臂	5节，“U”形截面的筒形焊接结构。双缸绳排伸缩机构	●
	主臂长度：12m ~ 46.5m。	
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，但最大起重量不超过5t	●
固定副臂	2节桁架式焊接结构，具有0°、15°、30°三种固定副臂安装角	●
	固定副臂长度：9.5m/16m	

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



sis

配置

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 on either side of the chassis. The 5th jack is equipped. There is a double-way hydraulic valve fitted in each jack cylinder. Outrigger float dimensions: 450×450 mm
Reaction force of outrigger at max. lifting load: 585KN ●

Engine WP12G375E300, in-line, 6-cylinder, water cooled, electric-controlled diesel engine, made by WEICHAI. ●
Rated power: 276 kW/1900 rpm
Max torque: 1800 Nm/1000-1400 rpm
Compliant with China III emission standard.
Fuel tank capacity: 350 L

Transmission Mechanical transmission, made by Shaanxi Fast Gear Co., Ltd., 10-forward speed and 2-reverse speed, with retarder and synchronizer. ●

Axles High strength axles. 1st and 2nd axles are for steering, and 3rd and 4th axles are for driving and steering. ●

Suspensions Front suspension: longitudinal leaf spring balanced suspension, with tube shock absorber. ●
Rear suspension: double trailing arm balanced suspension, V-type upper thrust lever

Tires 8 tires and 1 spare tire, all axles are equipped with single tire ●
Tire specifications: 385/95R25

Braking Service brake: double-circuit air pressure brake acting on all wheels. ABS system is standard. ●
Parking brake: spring-loaded brake, acting on wheels of axles 2 and 4;
Auxiliary brake: engine exhaust brake and transmission retarder.

Steering Mechanically steering mechanism with a hydraulic booster; with rear axle steering system ●

Driver's cab New enclosed cab, luxury and comfort. It is designed to be leak-proof, anti-corrosive and shock-proof. It is equipped with a windshield offering outstanding visibility, rear-view mirrors, electric-controlled washer, electric window lifters, air heater with defrosting function, radio, floor mat, etc. ●
A double-seat designed for the co-driver can be unfolded into a berth for rest.
Air conditioner and fire extinguisher of 2 kg are standard.

Electric system 24 V DC, two sets of 12 V battery in series. 28V-80A. ●
m

技术规格

Technical specifications



Superstructure

配置

Frame	Designed and manufactured by XCMG, made of high strength steel.	●
Hydraulic system	Hydraulic pump: quadruple pump driven by chassis engine, fixed-displacement pump used for lifting, luffing and telescoping operations. Control valve: load-sensitive proportional multi-way change valve controlled by pilot hydraulic oil, which is integrated with impact-resistant valve and cavitation-proof valve. Oil circuit: there is an air cooled hydraulic oil cooler equipped to effectively reduces the oil temperature.	●
Control system	Pilot hydraulic control is used for controlling the superstructure. All crane movements are controlled by the hydraulic pump and proportional valve through two control.	●
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 balanced valve and a Lebus-type 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 balanced valve and a Lebus-type 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. Horn switch is equipped on the slewing control lever.	●
Luffing system	A front support double-acting hydraulic cylinder is equipped for luffing operation, with a balance valve fitted.	●

Operator's Cab	New steel cab with a full-view windshield, safety glass, sun shield and adjustable operator's seat. Windshield wiper and roof window wiper are fitted. Crane control levers are integrated into armrests. A pull-out step is designed for easy and safe access to the cab. Heater and air conditioner are equipped as standard.		●
Safety devices	Hydraulic balance valve, hydraulic relief valve, double-way hydraulic valve, LMI, lowering limiter, anti-two block, anemometer, tri colored light bar, slewing warning lamp. Rear view camera, Outrigger pressure detecting device, Data recorder, Winch monitoring device		●
Combined counterweight	Total weight is 10.5 t.	2.6 t	●
	Four combinations: 2.6 t, 5.3 t 7.8 t and 10.5 t.	2.7 t	●
		5.2 t	●
Hook blocks	55 t hook block		●
	5 t hook block		●
	35 t hook block		○



Boom and jib system

配置

Boom	5-section boom with U-shaped cross-section, welded structure. Double-cylinder plus ropes telescoping system. Boom length: 12 m~46.5 m.		●
Single top	Fitted at boom head, used for single line lifting operation. Its lifting performance is the same as that of boom, but the maximum lifting load can not exceed 5 t.		●
Fixed jib	Two lattice jib sections, welded structure; Three offset angles: 0° , 15° and 30° . Fixed jib length: 9.5 m/16 m.		●

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	10.5	10.5	11.8	11.8	44.6 ¹⁾
t	11.9	11.9	14.35	14.35	52.5 ²⁾

1)上车不带活动平衡重；

Superstructure: without counterweight slabs

2)短途转场状态，最高车速20km/h，带55t钩、副臂、副卷，臂端单滑轮，10.5t平衡重；

轮胎规格：385/95R25；

Short-distance jobsite transfer: max. travel speed is 20 km/h, with 55 t hook block, jib, auxiliary winch, single top, counterweight of 10.5 t.

Tire specification: 385/95R25



吊钩 Hook block	倍率 Parts of line	吊钩重量 Weight (kg)	吊钩尺寸 Dimensions (mm)	备注 Remarks
55 t	12	550	504×562×1480	单钩 Single hook
35 t	8	360	430×504×1362	单钩 Single hook
5 t	1	100	300×300×535	单钩 Single hook

作业速度

Working speeds



385/95R25



2.5 ~ 90

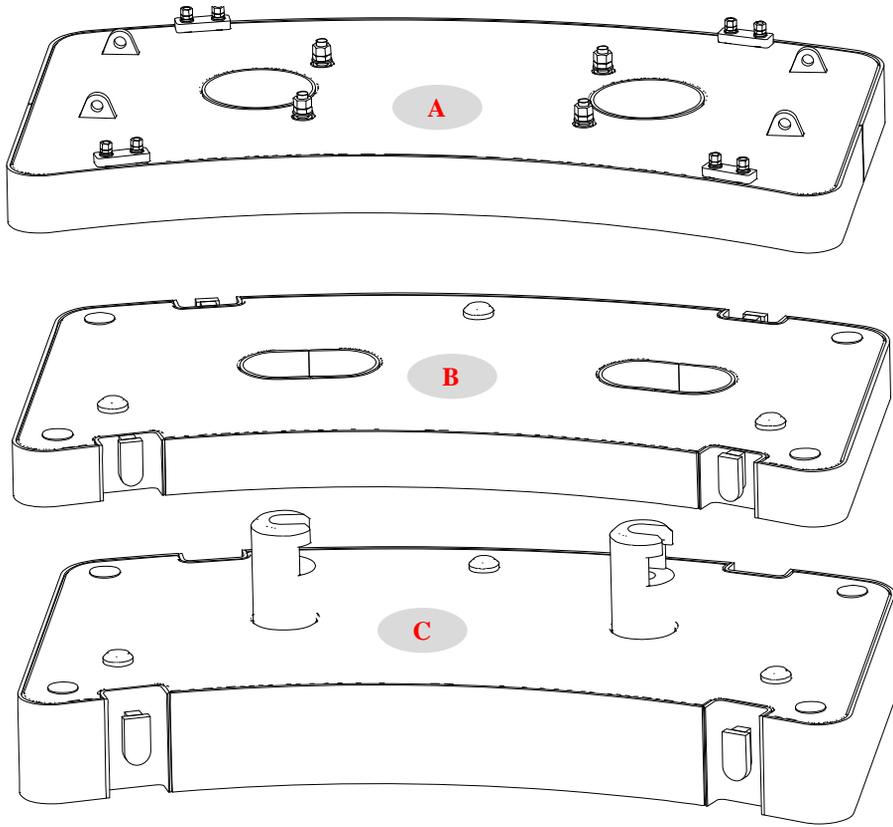


45%



作业机构 Operating 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	51kN	18 mm/208 m
	0-130 m/min, 单绳, 第四层 m/min, single line, 4th layer	51 kN	18 mm/140 m
	0-1.6 r/min		
	从-1°抬起至80°约45s Approx. 45s for boom luffing from -1° to 80°		
	从12m伸出至46.5m约107s Approx. 107s for boom extending from 12 m to 46.5 m		

平衡重 Counterweight

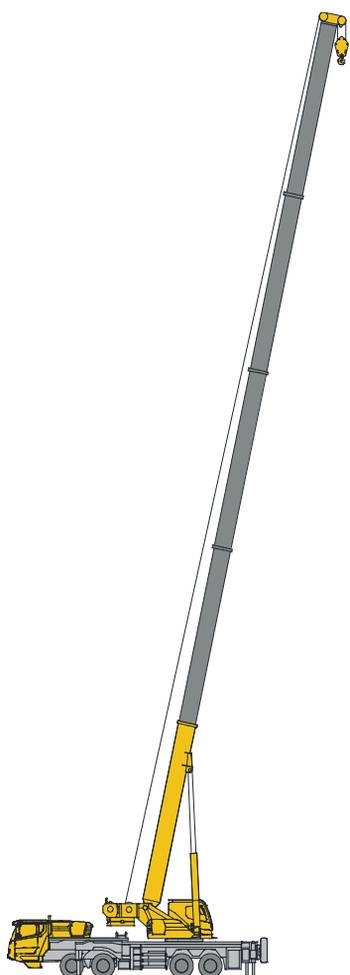


平衡重 Counterweight	A	B	C
尺寸 (长×宽×高) mm Dimensions (L×W×H) mm	2790×1587×210	2790×1587×195	2790×1587×695
重量 t Weight t	2.6	2.7	5.2

工况模式 Working mode	10.5 t	7.8t	5.3 t	2.6 t
组合形式 Combinations	A+B+C	A+C	A+B	A

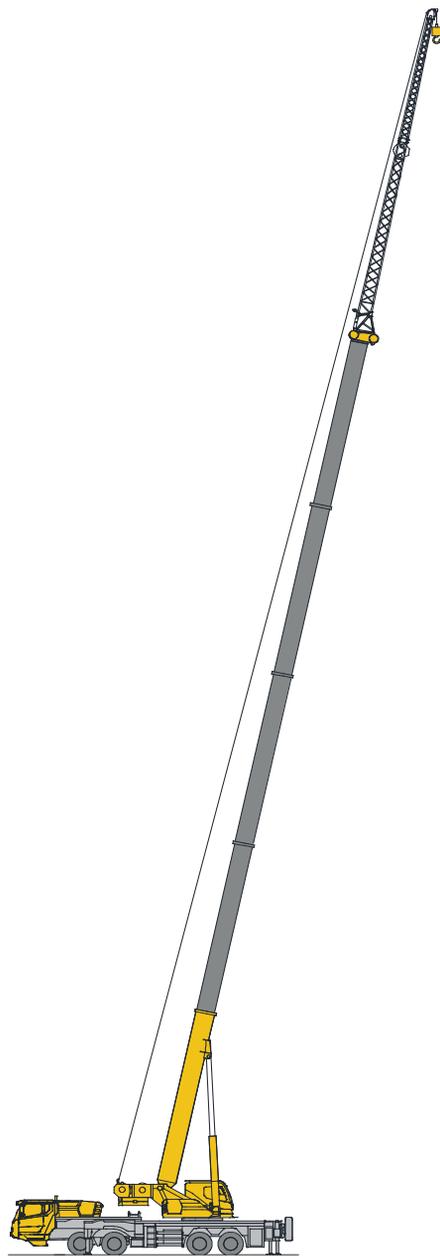
臂架组合方案

Boom / Jib combinations



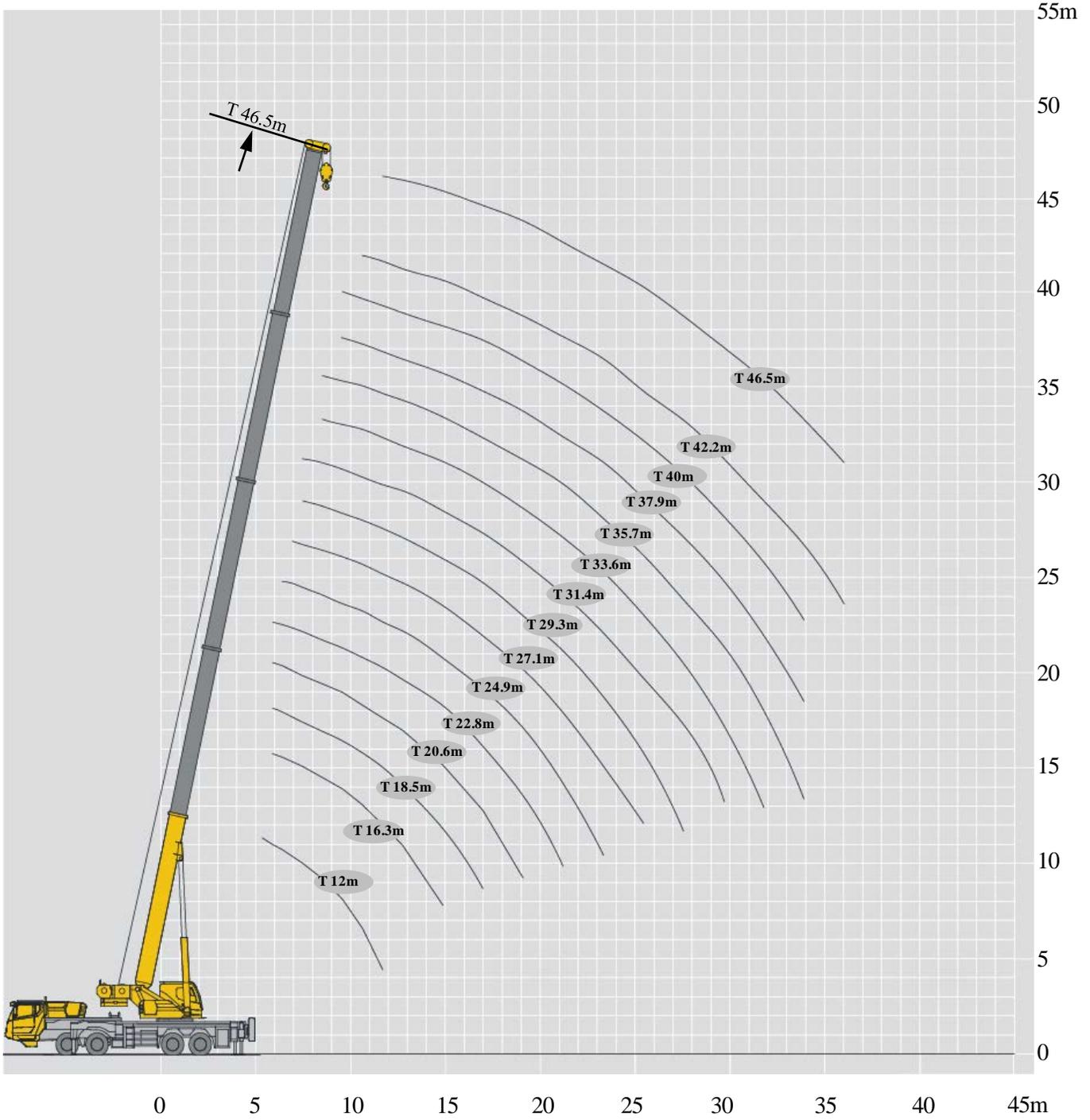
主臂
Telescopic boom

T : 12~46.5m



副臂
Jib

T : 46.5m
J : 9.5/16 m



起重性能表

Lifting capacities

T 12~46.5m

m	12-46.5m				6.4m×7.9m		360°		10.5t								m
	12m	16.3m	20.6m	27.1m	33.6m	40m	46.5m	18.5m	24.9m	31.4m	37.9m	22.8m	29.3m	35.7m	42.2m		
3	70															3	
3.5	55	44														3.5	
4	48	43						30.2								4	
4.5	45	41	34.6					30.2	26.9			29.5				4.5	
5	43.2	39	32.5	29.5				30.2	25.8			29.5	24.5			5	
6	37	33.5	29.3	27.3				29.6	24	16.8		29.5	24.2			6	
7	30.5	30	26.9	24.6	22.1			28.7	22.3	15.6	12.5	27	23.9	16.7		7	
8	26	25.5	25	22.6	20.4	16.1		26.9	20.8	14.6	11.8	25.1	22.3	15.8		8	
9	22	22	21.6	21	18.9	15.1	10.6	24.1	19.4	13.7	11.2	23.6	20.9	14.9	11.4	9	
10		19.3	18.8	18.4	17.3	14.2	10.5	21.1	18.3	12.8	10.5	20.5	19.3	14.1	11	10	
12		13.6	13.4	14.4	15	12.5	10.1	15.3	15.9	11.5	9.4	14.8	15.4	12.6	10.1	12	
14			9.8	10.8	11.4	11.2	9.1	11.7	12.3	10.3	8.4	11.2	11.8	11.2	9.2	14	
16			7.4	8.3	8.9	9.3	8.2		9.7	9.3	7.7	8.7	9.3	9.6	8.3	16	
18				6.6	7.1	7.5	7.7		7.9	8.2	7.1	6.9	7.5	7.8	7.8	18	
20				5.2	5.7	6.1	6.4		6.5	6.8	6.5	5.5	6.1	6.4	6.7	20	
22				4.2	4.7	5	5.3			5.7	5.9		5	5.4	5.6	22	
24					3.8	4.2	4.4			4.9	5.1		4.2	4.5	4.7	24	
26					3.2	3.5	3.7			4.2	4.4		3.5	3.8	4	26	
28					2.6	2.9	3.1				3.8			3.2	3.4	28	
30						2.4	2.6				3.3			2.7	2.9	30	
32						2	2.2				2.8			2.3	2.5	32	
34						1.6	1.9								2.1	34	
36							1.5								1.8	36	
38							1.2									38	

起重性能表

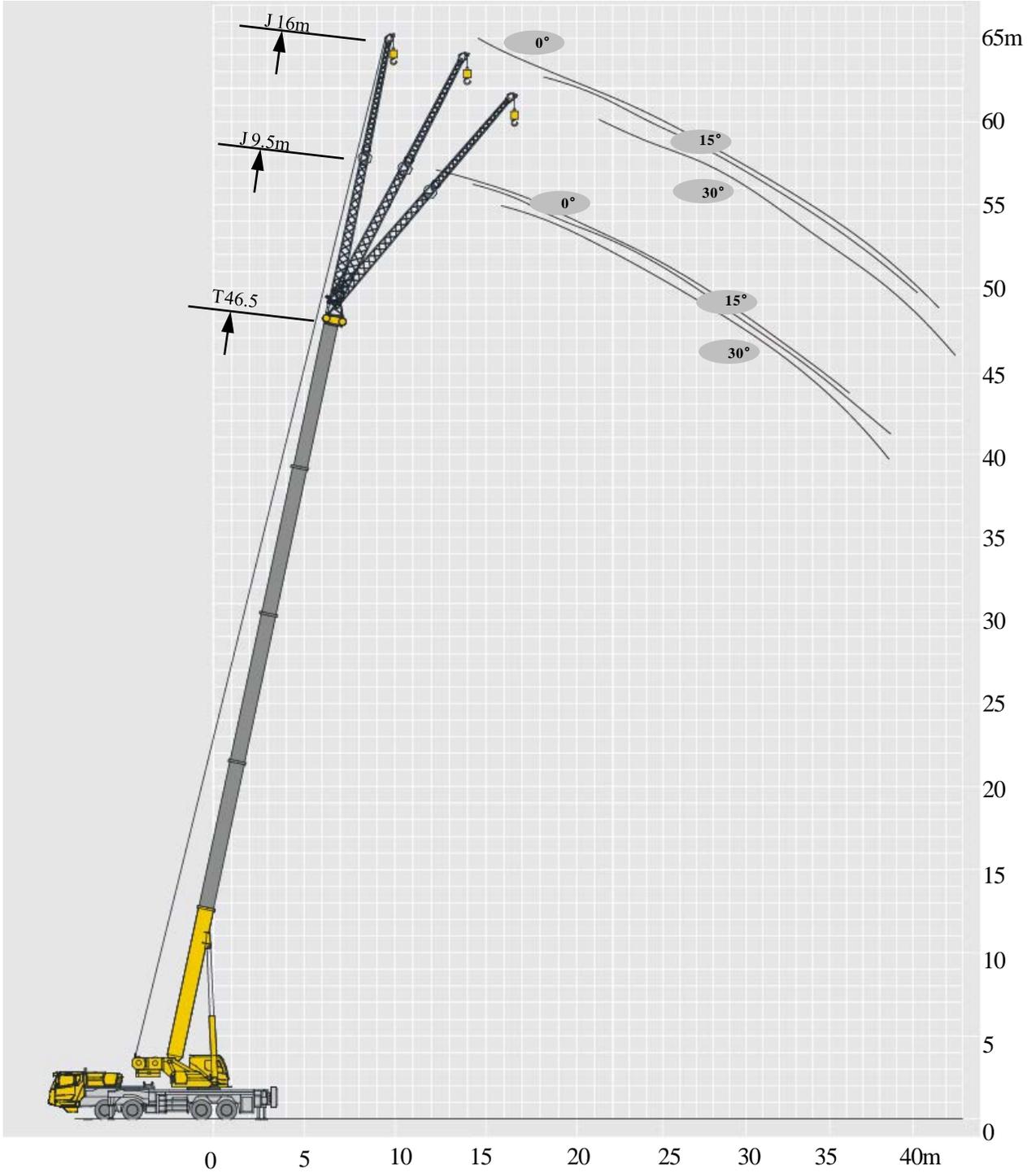
Lifting capacities

T 12~46.5m

m	12-46.5m				6.4m×7.9m		360°		2.6 t								m
	12m	16.3m	20.6m	27.1m	33.6m	40m	46.5m	18.5m	24.9m	31.4m	37.9m	22.8m	29.3m	35.7m	42.2m		
3	70															3	
3.5	55	44														3.5	
4	48	43						30.2								4	
4.5	45	41	34.6					30.2	26.9			29.5				4.5	
5	43.2	39	32.5	29.5				30.2	25.8			29.5	24.5			5	
6	37	33.5	29.3	27.3				29.6	24	16.8		29.5	24.2			6	
7	27.9	27.4	26.9	24.6	22.1			28.7	22.3	15.6	12.5	27	23.9	16.7		7	
8	20.8	20.4	20.1	21.3	20.4	16.1		22.4	20.8	14.6	11.8	21.8	22.3	15.8		8	
9	16.3	15.9	15.6	16.8	17.4	15.1	10.6	17.7	18.4	13.7	11.2	17.2	17.8	14.9	11.4	9	
10		12.6	12.3	13.4	14.1	14.2	10.5	14.4	15	12.8	10.5	13.8	14.5	14.1	11	10	
12		8.4	8.1	9.1	9.7	10.1	10.1	10	10.6	10.9	9.4	9.5	10.1	10.5	10.1	12	
14			5.6	6.6	7.1	7.5	7.7	7.4	7.9	8.2	8.4	6.9	7.5	7.8	8.1	14	
16			3.9	4.8	5.4	5.7	6		6.1	6.4	6.6	5.2	5.7	6	6.2	16	
18				3.6	4.1	4.4	4.7		4.8	5.1	5.3	3.9	4.4	4.7	5	18	
20				2.7	3.2	3.5	3.7		3.9	4.1	4.3	3	3.5	3.8	4	20	
22				1.9	2.4	2.7	3			3.4	3.6		2.7	3	3.2	22	
24					1.8	2.1	2.4			2.8	2.9		2.1	2.4	2.6	24	
26					1.4	1.7	1.9			2.3	2.5		1.6	1.9	2.1	26	
28						1.3	1.5				2			1.5	1.7	28	
30							1.1				1.7				1.4	30	

起升高度曲线图 Lifting heights

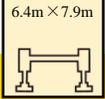
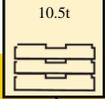
副臂
Jib

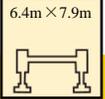
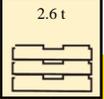


起重性能表

Lifting capacities

T 46.5m

	    						
	9.5m			16m			
	0°	15°	30°	0°	15°	30°	
80	5000	3500	3000	3000	2500	1800	80
78	5000	3500	3000	3000	2400	1700	78
75	4800	3400	2800	2900	2200	1500a	75
72	4500	3200	2600	2800	2000	1400	72
70	4200	3000	2500	2600	1800	1300	70
65	3600	2800	2300	2500	1600	1200	65
60	2700	2500	2100	2100	1500	1200	60
55	1900	1800	1700	1400	1300	1100	55
50	1300	1200	1200	900	800	800	50

	    						
	9.5m			16m			
	0°	15°	30°	0°	15°	30°	
80	5000	3500	3000	3000	2500	1800	80
78	5000	3500	3000	3000	2400	1700	78
75	4800	3400	2800	2900	2200	1500	75
72	4100	3200	2600	2800	2000	1400	72
70	3400	3000	2500	2600	1800	1300	70
65	2100	1900	1800	1600	1400	1200	65

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 Travel speed
	工作幅度 Working radius		爬坡能力 Grade ability
	吊臂仰角 Boom angle		轮胎 Tires
	主臂起升高度 Lifting 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 Lifting 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		360°全回转 360° rotation
	带载行驶 Travel with load		使用第五支腿360°全回转 360° operation of the boom with 5th jack down

主要技术参数

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	14750×2800×3830	
	轴距 Wheelbase	mm	1500+4665+1500	
	轮距 (前/后) Track (Front/Rear)	mm	2400/2336	
	前悬/后悬 Front/Rear overhang	mm	2466/2450 2479/2450	
	前伸/后伸 Front/Rear extension	mm	2169/0 2156/0	
重量参数 Weight	最大允许总质量 Total vehicle mass in travel configuration	kg	44600	
	轴荷 Axle load	一轴 1st axle	kg	10500
		二轴 2nd axle	kg	10500
		三轴 3rd axle	kg	11800
四轴 4th axle		kg	11800	
动力参数 Power	发动机型号 Engine model	—	WP12G375E300	
	额定功率/转速 Engine rated power/rpm	kW/(r/min)	276/1900	
	最大净功率/转速 Max. net power/rpm	kW/(r/min)	274/1900	
	最大输出扭矩/转速 Max. output torque/rpm	N.m/(r/min)	1800/1000-1400	
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	20	
	臂头最小转弯直径 Min. turning diameter at boom tip	m	≤27	
	最小离地间隙 Min. ground clearance	mm	280	
	接近角 Approach angle	°	12	
	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	%	48	
	百公里油耗 Fuel consumption per 100 km	L	45	
噪音 Noise	加速行驶机外噪声 Exterior noise level when accelerating	dB(A)	≤88	
	驾驶员耳旁噪声 Noise level at seated position	dB(A)	≤90	

主要技术参数

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	70	
	最小额定工作幅度 Min. rated working radius		m	3	
	转台尾部回转半径 (平衡重处) Turning radius at turntable tail (counterweight)		mm	4110	
	最大起重力矩 Max. load moment	基本臂 Base boom		kN.m	2176
		最长主臂 Fully-extended boom		kN.m	1358
		最长主臂+副臂 Fully-extended boom + Jib		kN.m	875
	支腿跨距 Outrigger span	纵向 Longitudinal		m	6.4
		横向 Lateral		m	7.9
	起升高度 Lifting height	基本臂 Base boom		m	12.7
		最长主臂 Fully-extended boom		m	47
		最长主臂+副臂 Fully-extended boom + Jib		m	62.5
	起重臂长度 Boom length	基本臂 Base boom		m	12
		最长主臂 Fully-extended boom		m	46.5
		最长主臂+副臂 Fully-extended boom + Jib		m	62.5
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 Time for raising the boom		s	≤45	
	起重臂全伸时间 Time for fully extending the boom		s	≤107	
	最大回转速度 Max. slewing speed		r/min	≥1.6	
	支腿收放时间 Time for extending and retracting outriggers	水平支腿 Outrigger beam	收 Retracting	s	≤25
			放 Extending	s	≤30
		垂直支腿 Outrigger jack	收 Retracting	s	≤50
			放 Extending	s	≤50
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 load given in the rated load charts are the maximum lifting capacity when the crane is set up on firm and level ground. The total rated load 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. Do not extend the boom into areas of the load chart where the crane does not have capacity beyond the angles shown in the range diagrams, or tipping may occur.
6. The boom should be extended according to the telescoping code shown by digits, which means the percentage of boom sections extended.

