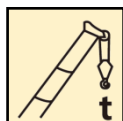


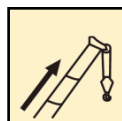
XCT100_Y汽车起重机 / Truck Crane

技术规格书

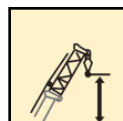
Technical specifications



100t



50.5 m



74 m



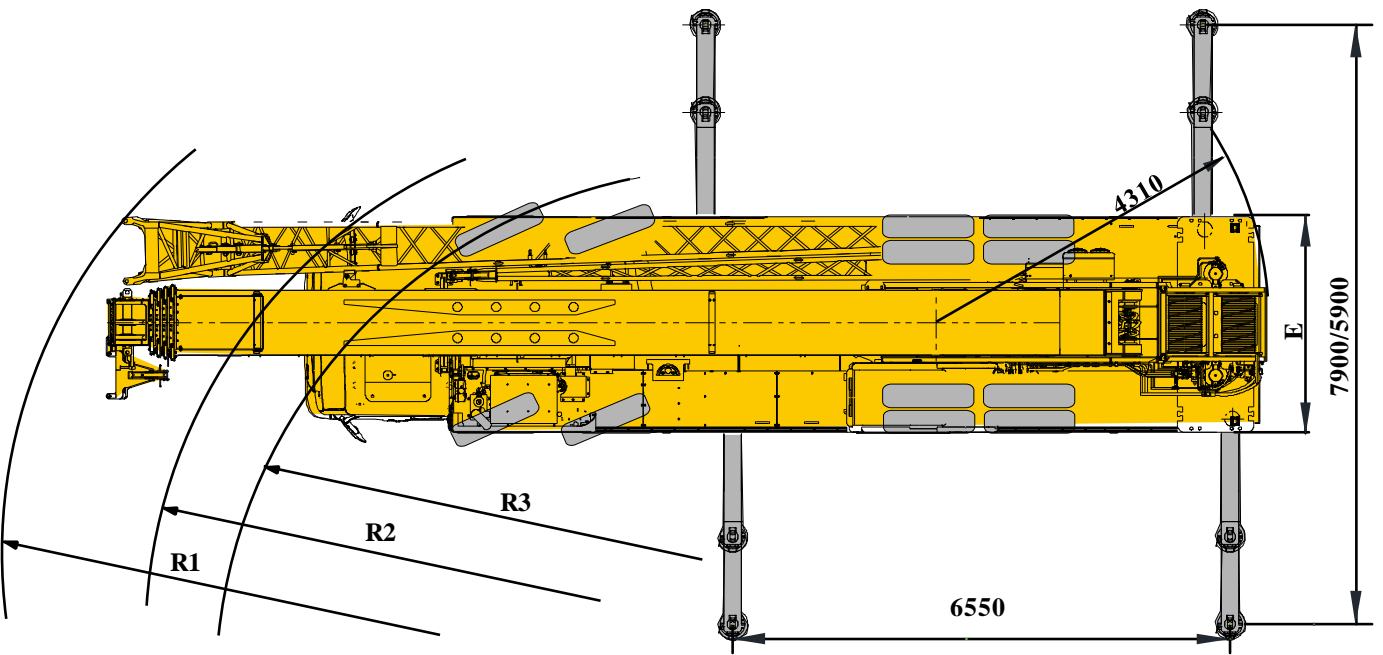
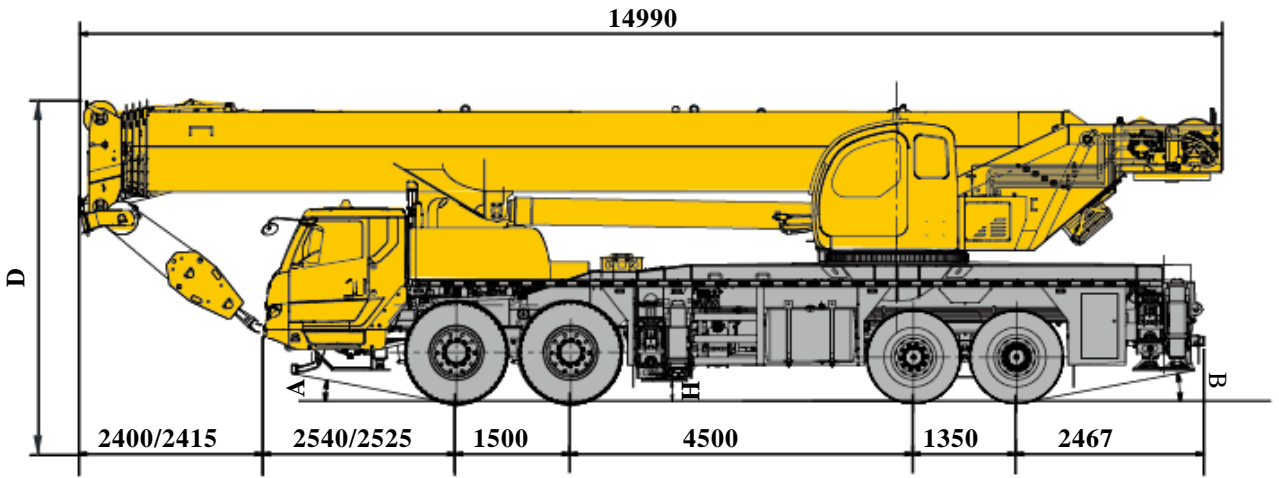
2023年7月 第1版

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尺寸参数 Dimensions



	A	B	D	E	R1	R2	R3	H
385/95 R25 12.00R24/325/95R24	11° 18° (拆除前防护) (front protective device removed)	11°	3940	2800	15200	13300	12000	260

备注：当配置齐星驾驶室时，前伸:2400mm，前悬为2540mm；当配置徐工汽车驾驶室时，前伸:2415mm，前悬为2525mm。

Remark: Front extension: 2400mm, front overhang: 2540 mm (equipped with Qixing driver's cab);
Front extension: 2415 mm, front overhang: 2525 mm (equipped with XCMG Automobile driver's cab).

技术规格

Technical specifications

 底盘	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，H形布置，活动支腿采用双级水平支腿，水平伸缩和垂直伸缩由液压控制，底盘两侧装有支腿操纵杆，水平仪、LED照明灯和调速按钮，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：784kN	●
发动机	WP10H375E50，直列六缸水冷电控柴油发动机，潍柴制造，额定功率276kW/1900rpm，最大扭矩1800Nm/1000-1400rpm，最大基准扭矩：2067N.m； 国V排放标准； 尿素箱容积：35L 燃油箱容积：470L	●
变速箱	陕齿手动变速箱，10个前进档，2个倒档。	●
车桥	名牌厂家高强度车桥，1、2桥转向，3、4桥驱动。	●
悬挂	前悬挂为钢板弹簧，后悬挂为橡胶悬挂。	●
轮胎	12个轮胎，1个备胎，1、2桥均装单胎，3、4桥均装双胎。轮胎规格： 385/95R25（前桥） 12.00R24/325/95R24（后桥）	●
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：发动机排气制动和缸内缓速制动。	●
转向	1、2桥机械转向+液压助力。	●
驾驶室	豪华驾驶室。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，收放音机等。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24V，串联12V的电池组2个。 发电机：28V-80A。	●

技术规格

Technical specifications

 上车	配置	组合配重	
结构	徐工设计、制造，高强度钢材制造。	●	平衡重A：8t ●
液压系统	底盘发动机驱动变量柱塞泵，用于起升、变幅、伸缩。负载敏感式比例多路换向阀，带有抗冲击阀、防气蚀阀；风冷式液压油散热器；液压油箱容积：1164L		平衡重B：5t ●
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控先导式控制起重机的全部动作	●	平衡重C：5t ○
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；	●	平衡重D：5.3t ●
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；	●	平衡重E：1.7t ●
变幅机构	单支双作用前置液压变幅油缸，带有平衡阀	●	起重钩
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。 标配冷暖空调。	●	80t钩 ●
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；回转报警灯；三色报警灯	●	7t钩 ●
			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：13m~50.5m。 ●
			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6.5t。 ●
			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：10.5m/17.5m ●
			加长节
			1节7m主臂加长节 ○

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。

Technical specifications

Technical specifications



Chassis

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.	●
Outriggers	Four outriggers arranged in H-shape are hydraulically controlled by control levers. Double-stage outrigger beams are adopted. There are outrigger control levers located at each side of the chassis, and there is a level gauge, LED illuminator and speed buttons in each control panel. 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: 784kN	●
Engine	WP10H375E50, in-line, 6-cylinder, water cooled, electric control diesel engine, made by Weichai Engine, with rated power of 276kW/1900 rpm, max. torque of 1800Nm/1000-1400 rpm and max. standard torque of 2067 N.m. The engine complies with China V emission standard. AdBlue tank capacity: 35L Fuel tank capacity: 470L.	●
Transmission	Manual transmission, made by Shaanxi Fast Gear Co., Ltd., has 10-forward speed and 2-reverse speed.	●
Axles	High strength axles, made by famous manufacturers. 1st and 2nd axles are for steering, and 3rd and 4th axles are for driving.	●
Suspension	Leaf spring suspension is used as front suspension, and rubber suspension is used as rear suspension.	●

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: 385/95R25 (front axles) 12.00R24/325/95R24 (rear axles)	●
Brakes	Service brake: double-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 and engine retarder brake	●
Steering	1st and 2nd axles are mechanically steered with hydraulic power assistance.	●
Driver's cab	It is equipped with large-view windshield made of safety glass, rearview mirror, electrical control windshield washer, electric control window glass lifters and a radio player, etc. The co-driver's seat can be unfolded to be a simple sleeper. A fire extinguisher of 2 kg is available. Heater and air conditioner are standard.	●
Electrical system	24 V DC, two sets of 12 V battery in series. Generator :28 V-80 A.	●

Technical specifications

Technical specifications



Superstructure

Configurati
on

Frame	Designed and manufactured by XCMG, made of high strength steel.	●
Hydraulic system	Variable pump driven by chassis engine, used for luffing, lifting and telescoping operation. Load sense proportional directional valve is equipped with impact resistance valve and cavitation-proof valve; air-cooled hydraulic oil radiator. Tank capacity: 1164L	●
Control system	Hydraulic controlled pilot 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.	●
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. The 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 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. Heater and air conditioner are standard.	●

Safety devices	Hydraulic balance valve, hydraulic relief valve, double-way hydraulic valve, LMI, lowering limiter for preventing wire rope from over-releasing, anti-two block at boom head for preventing wire rope from over-winding, slewing warning lamp and tri colored light bar.	●
Counter weight	Counterweight slab A: 8t	●
	Counterweight slab B: 5t	●
	Counterweight slab C: 5t	○
	Counterweight slab D: 5.3t	●
	Counterweight slab E: 1.7t	●
Hook blocks	80t	●
	7t hook block	●
Boom	5-section boom with U cross-section, welding structure. Double-cylinder plus ropes telescoping system Boom length: 13m~50.5m.	●
Auxiliary sheave	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 6.5t.	●
Fixed jib	Two-section lattice jib, welded structure. Three offset angles of 0° , 15° and 30° . Fixed jib length: 10.5m/17.5m.	●
Boom extension	One section of 7m boom extension	○

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



Axle	1	2	3	4	总重量 Total weight
t	11.9	11.9	12.9	12.9	49.6 ¹⁾
t	14.5	14.5	20	20	69 ²⁾

1) 行驶状态：上车不带7t钩、加长节总成、活动平衡重；下车不带配重支架、备胎及备胎支架；
In travel configuration: Superstructure not includes 7 t hook block, extension assembly and counterweight;
Chassis not includes counterweight bracket, spare tire and its bracket.

2) 短途转场状态：最高车速10km/h，带80t钩、副臂、副卷，20t平衡重；转向驱动形式：8×4×4；轮胎规格：1、2轴：385/95R25，3、4轴：12.00R24或325/95R24；
Short-distance job site transfer: with max. travel speed of 10 km/h, the crane carries the 80 t hook block, jib, auxiliary winch and 20 t counterweight. Steering type is 8×4×4; Tire specifications: 1st and 2nd axles are 385/95R25, 3rd and 4th axles are 12.00R24 or 325/95R24.



吊钩 Hook block	倍率 Parts of line	吊钩重量 Weight (kg)	吊钩尺寸 Dimensions (mm)	备注 Remarks
80 t	13	700	1735×554×520	单钩 Single hook
7 t	1	210	717×370×370	单钩 Single hook

作业速度 Working speeds



385/95R25 (前桥) (Front axles)
12.00R24/325/95R24 (后桥) (Rear axles)

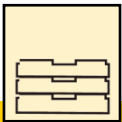
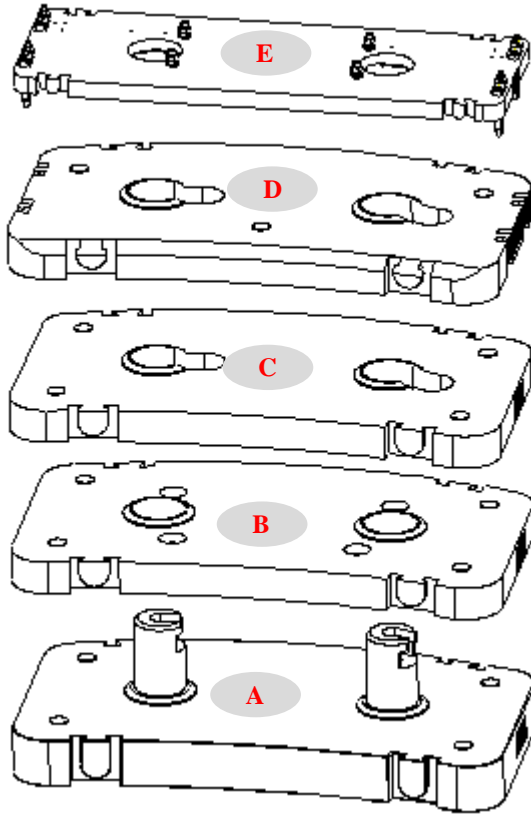
2.5 ~ 80

45%



作业机构 Lifting 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
	0-145 m/min, 单绳, 第四层 m/min, single line, 4th layer	65.7 kN	20 mm/250 m
	0-90 m/min, 单绳, 第四层 m/min, single line, 4th layer	65.7 kN	20 mm/180 m
	0-2 r/min		
	从-0.5°抬起至81°约55s Approx. 55 s for boom luffing from -0.5° to 81°		
	从13m伸出至50.5m约135s Approx. 135 s for boom extending from 13 m to 50.5 m		

平衡重 Counterweight

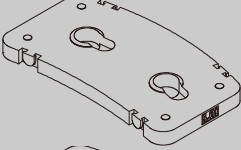
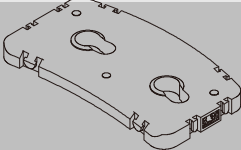
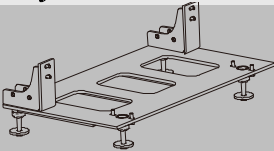



平衡重 Counterweight	A	B	C(选装) (optional)	D	E
尺寸 (长×宽×高) mm Size (L×W×H) mm	2790×1575×730	2790×1575×221	2790×1575×223	2790×1575×240	2790×990×97
重量 t Weight t	8	5	5	5.3	1.7

工况模式 Operation mode	25t	20t	15t	14.7t	9.7t	7t	1.7t
组合形式 Combinations	A+B+C+D+E	A+B+D+E	A+D+E	A+B+E	A+E	D+E	E

运输部件尺寸

Dimension and weight of parts transported

部件 Parts	结构形式 Structure	尺寸 (长×宽×高) mm Dimensions (L×W×H) (mm)	重量 kg Weight (kg)	数量 Quantity
7吨吊钩 7 t hook block		717×370×370	210	1
平衡重A Counterweight slab A		2790×1575×730	8000	1
平衡重B Counterweight slab B		2790×1575×221	5000	1
平衡重C (选装) Counterweight slab C (optional)		2790×1575×223	5000	1
平衡重D Counterweight slab D		2790×1575×240	5300	1
主臂加长节 (选装) Boom extension (optional)		7090×870×1360	455	1
配重支架 Counterweight bracket		1380×800×450	145	1
备胎及支架 Spare tire and its bracket		1356×1356×555	260	1

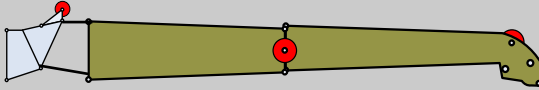
臂架组合方案

Boom/ Jib combinations

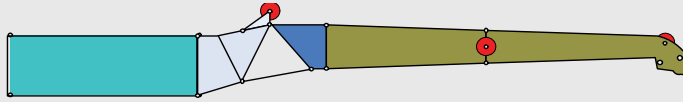
副臂 – 10.5 m
Jib – 10.5 m




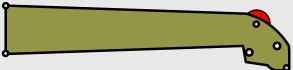


副臂 – 17.5 m
Jib – 17.5 m



主臂加长节 – 24.5m
Boom extension – 24.5 m



部件 Parts	结构形式 Structure	尺寸 (长×宽×高) mm Dimensions (L×W×H) (mm)	重量 kg Weight (kg)
连接架 Connection bracket		2035×870×1440	231
主臂加长节 Boom extension		7090×870×1360	455
一节副臂总成 1st jib section assembly		9925×710×1105	568
二节副臂总成 2nd jib section assembly		6910×450×610	264

臂架组合方案

Boom/Jib combinations



主臂
Telescopic boom

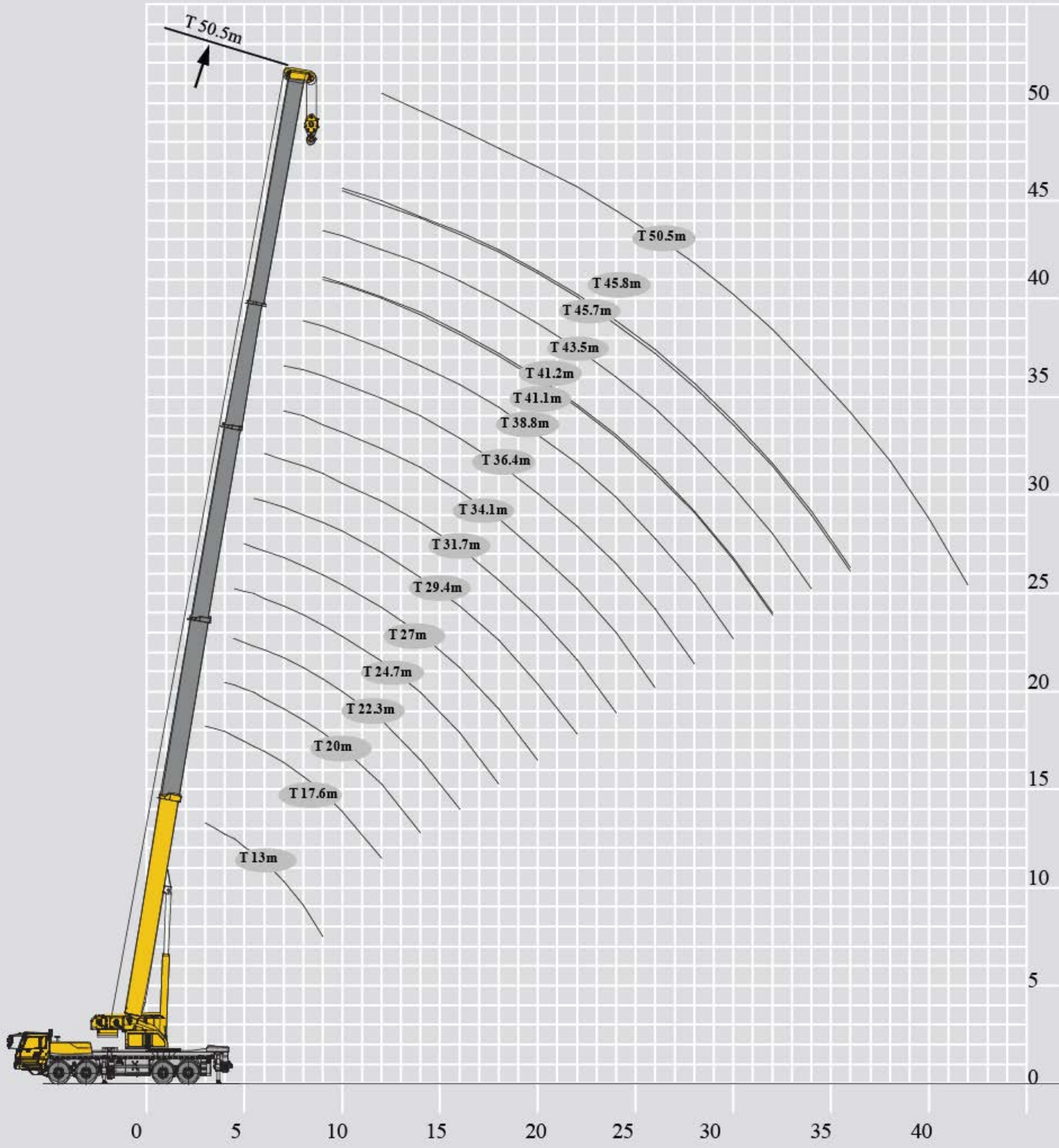
T : 13~50.5 m

副臂
Jib

T : 50.5 m
J : 10.5/17.5 m

主臂加长节
Boom extension

T : 50.5 m
I : 7 m
J : 10.5/17.5 m



起重性能表

Lifting load tables

T 13~50.5 m

	13-50.5m		6.55m × 7.9m		360°		25t												
	13	17.6	20	22.3	24.7	27	29.4	31.7	34.1	36.4	38.8	41.1	41.2	43.5	45.7	45.8	50.5		
2.5	100.0*																	2.5	
3	90.0*	70.0																3	
3.5	80.0	68.0																3.5	
4	76.0	67.0	38.0															4	
4.5	73.0	65.0	38.0	47.0	37.0													4.5	
5	70.0	62.0	38.0	47.0	37.0	38.0												5	
5.5	64.0	58.0	38.0	47.0	37.0	38.0	36.0											5.5	
6	58.0	55.0	38.0	46.0	37.0	38.0	36.0	38.0										6	
7	48.0	47.0	38.0	45.0	37.0	38.0	36.0	38.0	23.0	31.0								7	
8	41.5	41.0	38.0	40.5	37.0	38.0	35.0	38.0	22.0	30.0	23.0							8	
9	36.0	35.5	36.0	35.0	36.0	38.0	32.0	38.0	22.0	28.0	22.0	18.5	23.0	21.0				9	
10		31.0	33.0	31.0	32.0	32.0	30.0	32.0	22.0	26.0	22.0	18.0	23.0	21.0	20.9	18.1		10	
12		24.8	26.5	24.5	26.0	26.0	25.0	26.0	20.9	24.0	21.0	16.8	22.0	21.0	19.1	16.8	14.7	12	
14			21.9	19.0	21.1	22.8	20.6	22.1	18.5	21.0	19.4	15.2	20.0	20.0	17.9	15.5	14.2	14	
16				14.7	16.8	18.4	16.2	17.7	16.8	17.1	17.8	13.9	17.2	17.1	15.9	14.2	13.2	16	
18					13.6	15.2	13.1	14.5	15.3	13.9	15.0	12.5	14.4	14.5	14.2	13.0	11.9	18	
20						12.7	10.7	12.1	13.2	11.5	12.6	11.6	11.9	12.2	12.2	12.1	11.1	20	
22							8.8	10.2	11.3	9.6	10.7	10.7	10.0	10.2	10.3	11.0	10.0	22	
24								8.6	9.7	8.1	9.1	9.9	8.5	8.6	8.8	9.5	9.0	24	
26									8.4	6.8	7.8	8.7	7.2	7.4	7.5	8.2	7.8	26	
28										5.7	6.8	7.6	6.1	6.3	6.4	7.1	6.7	28	
30											5.9	6.7	5.2	5.4	5.5	6.2	5.8	30	
32												5.9	4.5	4.6	4.7	5.4	5.1	32	
34														3.9	4.1	4.7	4.3	34	
36															3.5	4.1	3.7	36	
38																	3.2	38	
40																	2.8	40	
42																	2.4	42	
倍率 n	13	11	7	8	7	6	6	6	5	5	4	4	4	4	4	3	3	倍率 n	
二节臂 2nd	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	50%	0%	100%	100%	100%	50%	100%	二节臂 2nd	
三节臂 3rd	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	75%	100%	67%	75%	83%	100%	100%	三节臂 3rd	
四节臂 4th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	75%	100%	67%	75%	83%	100%	100%	四节臂 4th	
五节臂 5th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	75%	100%	67%	75%	83%	100%	100%	五节臂 5th	

*起重能力等级Capacity class

起重性能表

Lifting load tables

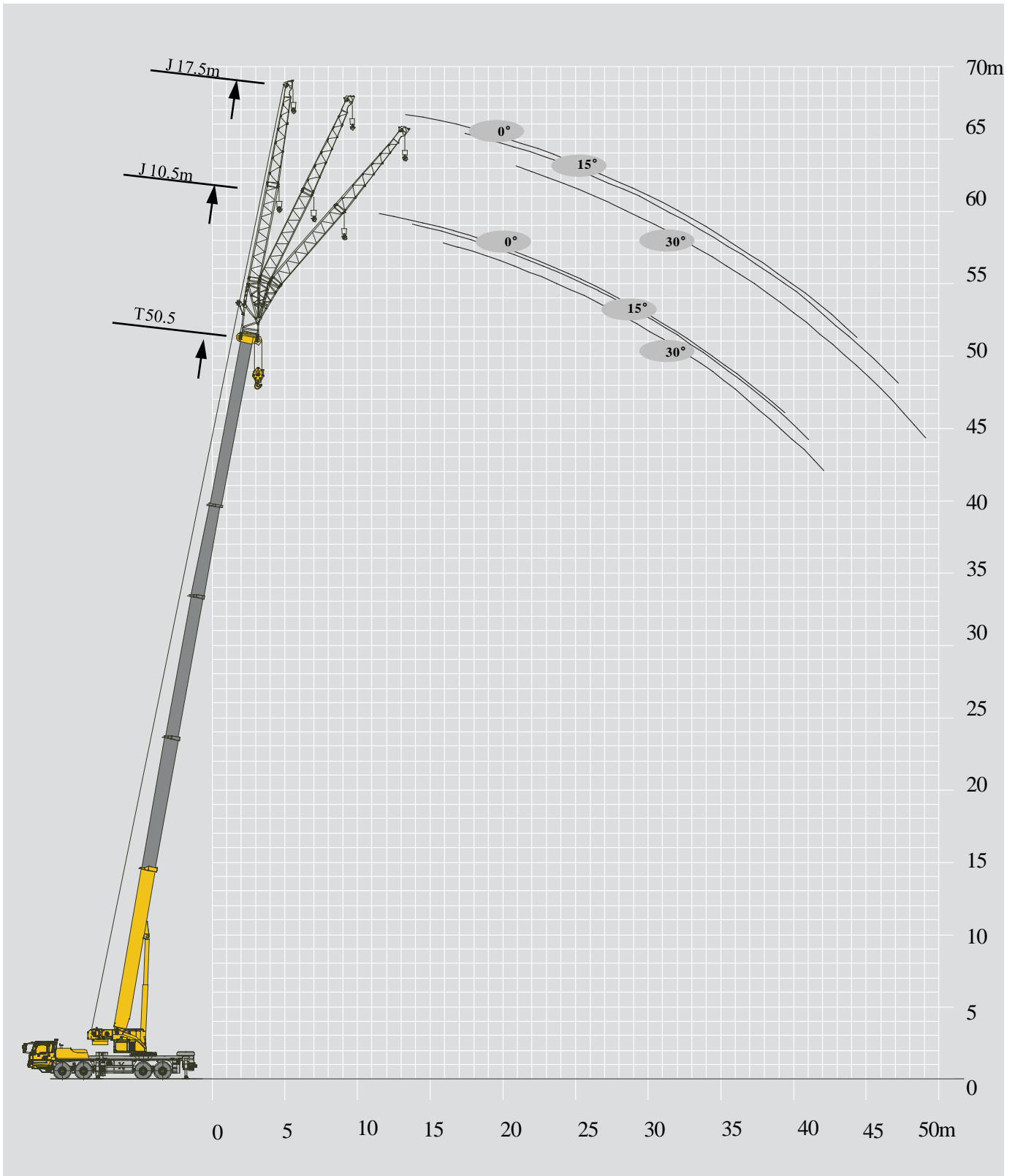
T 13~50.5 m

	13-50.5m		6.55m×7.9m		360°		20t												
	13	17.6	20	22.3	24.7	27	29.4	31.7	34.1	36.4	38.8	41.1	41.2	43.5	45.7	45.8	50.5		
2.5	100.0*																	2.5	
3	90.0*	70.0																3	
3.5	80.0	68.0																3.5	
4	76.0	67.0	38.0															4	
4.5	73.0	65.0	38.0	47.0	37.0													4.5	
5	68.0	62.0	38.0	47.0	37.0	38.0												5	
5.5	60.0	58.0	38.0	47.0	37.0	38.0	36.0											5.5	
6	55.0	55.0	38.0	46.0	37.0	38.0	36.0	38.0										6	
7	46.0	46.0	38.0	45.0	37.0	38.0	36.0	38.0	23.0	31.0								7	
8	40.0	39.0	38.0	39.0	37.0	38.0	35.0	38.0	22.0	30.0	23.0							8	
9	34.5	34.0	36.0	33.5	35.0	36.0	32.0	36.0	22.0	28.0	22.0	18.5	23.0	21.0				9	
10		30.0	31.0	29.5	31.0	32.0	30.0	32.0	22.0	26.0	22.0	18.0	23.0	21.0	20.9	18.1		10	
12		22.6	25.4	22.2	24.5	26.0	23.9	25.5	20.9	24.0	21.0	16.8	22.0	21.0	19.1	16.8	14.7	12	
14			19.5	16.5	18.7	20.3	18.1	19.6	18.5	19.0	19.4	15.2	19.5	20.0	17.9	15.5	14.2	14	
16				12.6	14.7	16.3	14.2	15.6	16.8	15.0	16.2	13.9	15.5	15.7	15.8	14.2	13.2	16	
18					11.8	13.4	11.2	12.6	13.8	12.1	13.2	12.5	12.5	12.7	12.8	13.0	11.9	18	
20						11.1	9.0	10.4	11.6	9.9	10.9	11.6	10.5	10.6	10.8	11.3	10.9	20	
22							7.3	8.6	9.8	8.3	9.2	10.1	8.6	8.7	8.9	9.6	9.2	22	
24								7.2	8.3	6.8	7.8	8.6	7.2	7.3	7.5	8.2	7.8	24	
26									7.2	5.6	6.6	7.5	6.1	6.1	6.3	7.0	6.6	26	
28										4.7	5.6	6.5	5.1	5.2	5.4	6.1	5.6	28	
30											4.8	5.6	4.3	4.3	4.6	5.2	4.8	30	
32												4.9	3.6	3.6	3.9	4.5	4.1	32	
34														3.0	3.3	3.9	3.5	34	
36															2.7	3.4	3.0	36	
38																	2.5	38	
40																	2.1	40	
倍率 n	13	11	7	8	7	6	6	6	5	5	4	4	4	4	4	3	3	倍率 n	
二节臂 2nd	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	50%	0%	100%	100%	100%	50%	100%	二节臂 2nd	
三节臂 3rd	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	75%	100%	67%	75%	83%	100%	100%	三节臂 3rd	
四节臂 4th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	75%	100%	67%	75%	83%	100%	100%	四节臂 4th	
五节臂 5th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	75%	100%	67%	75%	83%	100%	100%	五节臂 5th	

*起重能力等级Capacity class

起升高度曲线图 Lifting height chart

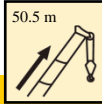
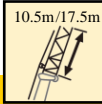
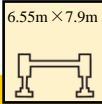

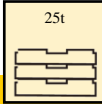
副臂
Jib


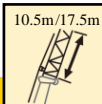
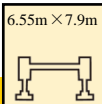

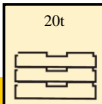


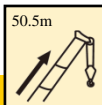
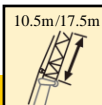
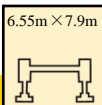

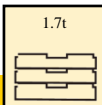
起重性能表

Lifting load tables

J 10.5 m/17.5 m

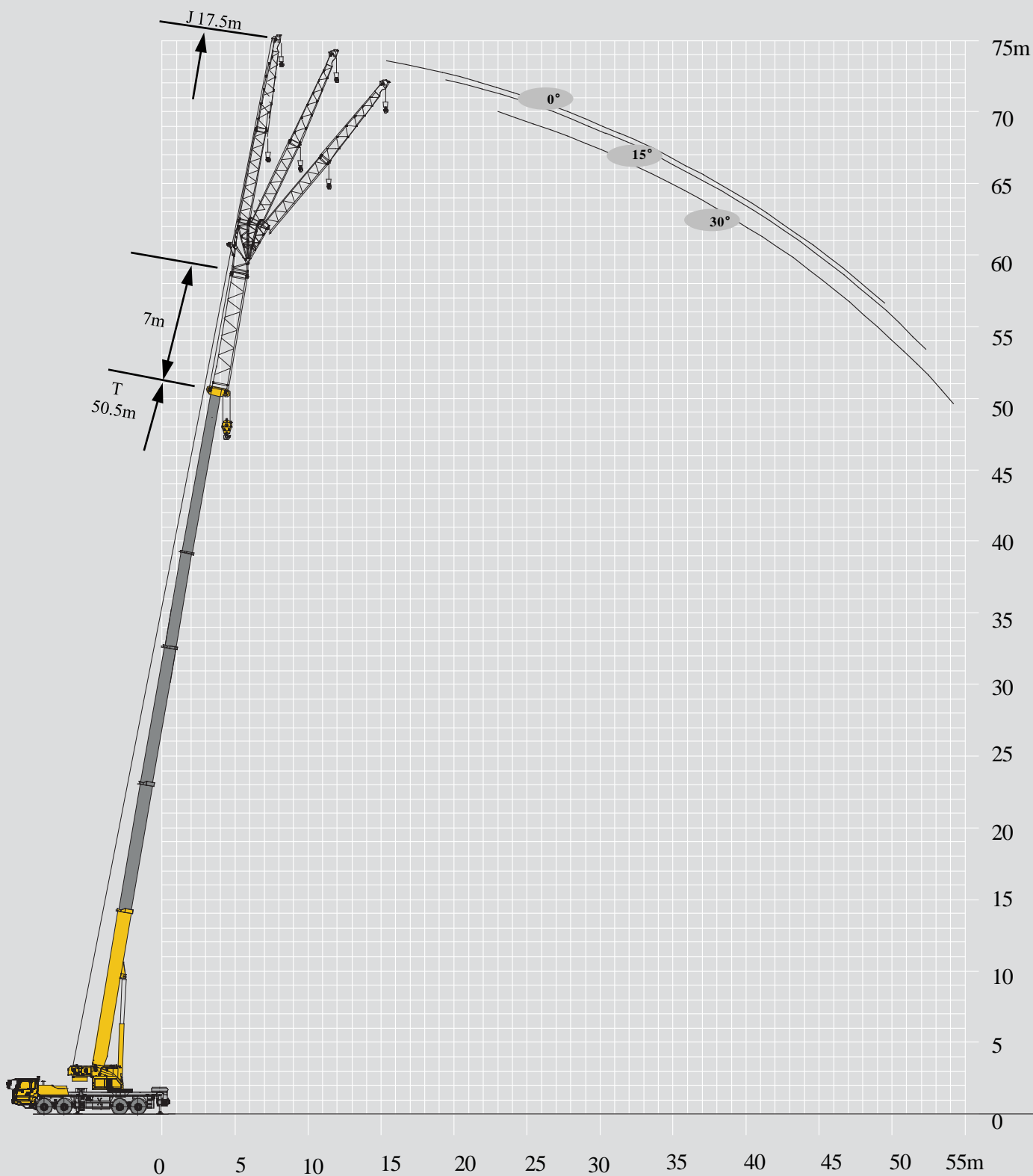
    							
10.5m				17.5m			
	0°	15°	30°	0°	15°	30°	
80	6.5	6.5	4.3	4.3	3.0	2.2	80
78	6.5	6.5	4.3	4.0	2.8	2.1	78
75	6.5	6.2	4.3	3.7	2.6	1.9	75
72	6.5	5.9	4.3	3.5	2.5	1.8	72
70	6.4	5.8	4.2	3.3	2.2	1.7	70
65	6.0	5.2	4.0	3.1	2.0	1.6	65
60	4.8	4.3	3.7	3.1	1.8	1.5	60
55	3.8	3.6	3.2	2.6	1.7	1.4	55
50	3.0	2.8	2.7	2.1	1.5	1.3	50

    							
10.5m				17.5m			
	0°	15°	30°	0°	15°	30°	
80	6.5	6.5	4.3	4.3	3.0	2.2	80
78	6.5	6.5	4.3	4.0	2.8	2.1	78
75	6.5	6.2	4.3	3.7	2.6	1.9	75
72	6.5	5.9	4.3	3.5	2.5	1.8	72
70	6.4	5.8	4.2	3.3	2.2	1.7	70
65	5.5	5.0	4.0	3.1	2.0	1.6	65
60	4.2	3.8	3.6	3.1	1.8	1.5	60
55	3.0	2.8	2.7	2.2	1.7	1.4	55
50	2.2	2.1	1.9	1.6	1.5	1.3	50

    							
10.5m				17.5m			
	0°	15°	30°	0°	15°	30°	
80	6.5	6.5	4.3	4.3	3	2.2	80
78	6.5	6.5	4.3	4	2.8	2.1	78
75	6.3	5.3	4.3	3.7	2.6	1.9	75
72	4.4	3.8	3.4	3.5	2.5	1.8	72
70	3.5	3.1	2.8	2.8	2.2	1.7	70
65	2	1.7	1.6	1.5	1.3	1.1	65

起升高度曲线图
Lifting height chart

主臂加长节
Boom extension



起重性能表

Lifting load tables

I 7 m

		50.5m	7+17.5m	6.55m×7.9m	360°	25t			
		7+17.5m							
		0°		15°		30°			
80		2.4		2.2		1.5		80	
78		2.4		2.2		1.4		78	
75		2.4		2.2		1.3		75	
72		2.4		1.8		1.2		72	
70		2.4		1.8		1.1		70	
65		2.4		1.6		1.0		65	
60		2.4		1.6		1.0		60	
55		2.2		1.3				55	
50		1.6		1.1				50	

		50.5m	7+17.5m	6.55m×7.9m	360°	20t			
		7+17.5m							
		0°		15°		30°			
80		2.4		2.2		1.5		80	
78		2.4		2.2		1.4		78	
75		2.4		2.2		1.3		75	
72		2.4		1.8		1.2		72	
70		2.4		1.8		1.1		70	
65		2.4		1.6		1		65	
60		2.4		1.6		1		60	
55		1.8		1.3				55	
50		1.1						50	

		50.5m	7+17.5m	6.55m×7.9m	360°	1.7t			
		7+17.5m							
		0°		15°		30°			
80		2.4		2.2		1.5		80	
78		2.4		2.2		1.4		78	
75		2.4		2.2		1.3		75	
72		2.4		1.8		1.2		72	
70		2.2		1.8		1.1		70	

符号标识

Description of symbols

常规标识

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 Radius		爬坡能力 Grade ability
	吊臂仰角 Boom angle		轮胎 Tires
	主臂起升高度 Boom lifting height		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 Jib lifting height		卷扬 Winch
	主臂加长节 Boom extension		360°全回转 360° slewing
	带载行驶 Travel with a load		

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	14990×2800×3940	
	轴距 Wheelbase	mm	1500+4500+1350	
	轮距 (前/后) Track (Front/ Rear)	mm	2400/2400/2063/2063	
	前悬/后悬 Front/ Rear overhang	mm	2540 (齐星Qixing)、2525 (徐工汽车XCMG Automobile)/2467	
	前伸/后伸 Front/ Rear extension	mm	2400(齐星Qixing)、2415 (徐工汽车XCMG Automobile)/230	
重量参数 Weight	最大允许总质量 Max. permissible weight	kg	49600	
	轴荷 Axle load	一轴 1st axle	kg	11900
		二轴 2nd axle	kg	11900
		三轴 3rd axle	kg	12900
四轴 4th axle		kg	12900	
动力参数 Power	发动机型号 Engine model	—	WP10H375E50	
	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)	271/1900	
	最大输出扭矩/转速 Max. output torque/rpm	N.m/(r/min)	1800/1100-1400	
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	≤24	
	臂头最小转弯直径 Min. turning diameter at boom tip	m	≤30.4	
	最小离地间隙 Min. ground clearance	mm	260	
	接近角 Approach angle	°	11 (18拆除前防护) (Front protective device removed)	
	离去角 Departure angle	°	11	
	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	44	
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	100	
	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	4400	
		副卷处 Auxiliary winch	mm	4310	
	最大起重力矩 Max. load moment	基本臂 Base boom	kN.m	3450	
		最长主臂 Fully-extended boom	kN.m	2183	
		最长主臂+副臂 Fully-extended boom + Jib	kN.m	1604	
	支腿跨距 Outrigger span	纵向 Longitudinal	m	6.55	
		横向 Lateral	m	7.9 (5.6)	
	起升高度 Hoist height	基本臂 Base boom	m	13.3	
		最长主臂 Fully-extended boom	m	50.5	
		最长主臂+副臂 Fully-extended boom + Jib	m	74	
	起重臂长度 Boom length	基本臂 Base boom	m	13	
		最长主臂 Fully-extended boom	m	50.5	
		最长主臂+副臂 Fully-extended boom + Jib	m	75	
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 extended time		s	≤135	
	最大回转速度 Max. slewing speed		r/min	≥2.0	
	支腿收放时间 Time for extending and retracting outriggers	水平支腿 Outrigger beam	收 Retracting	s	≤30
			放 Extending	s	≤40
		垂直支腿 Outrigger jack	收 Retracting	s	≤40
			放 Extending	s	≤55
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)	≤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 load given in the rated load charts are the maximum lifting capacity when the crane is set up on firm and level ground. The possible weight for the load to be lifted is therefore reduced according to the weights of the aforementioned tackle.
2. The working radius is the horizontal gravity center distance of the load from the rotational axis of the crane superstructure measured at 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 of 14.1 m/s, wind pressure of 125N/m²).
4. Before beginning lifting, the operator should know the weight of the load to be lifted and its working range, and should then select proper working conditions. Never operate the crane beyond the limit shown in the chart. The working condition should be depended on the smaller value when the radius and boom length falls between two adjacent 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. Extend boom sections according to the specified percentage.



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