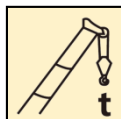


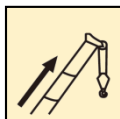
QY100K5C汽车起重机 / Truck Crane

技术规格书

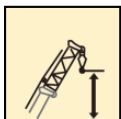
Technical specifications



100 t



50.5 m



66.6 m

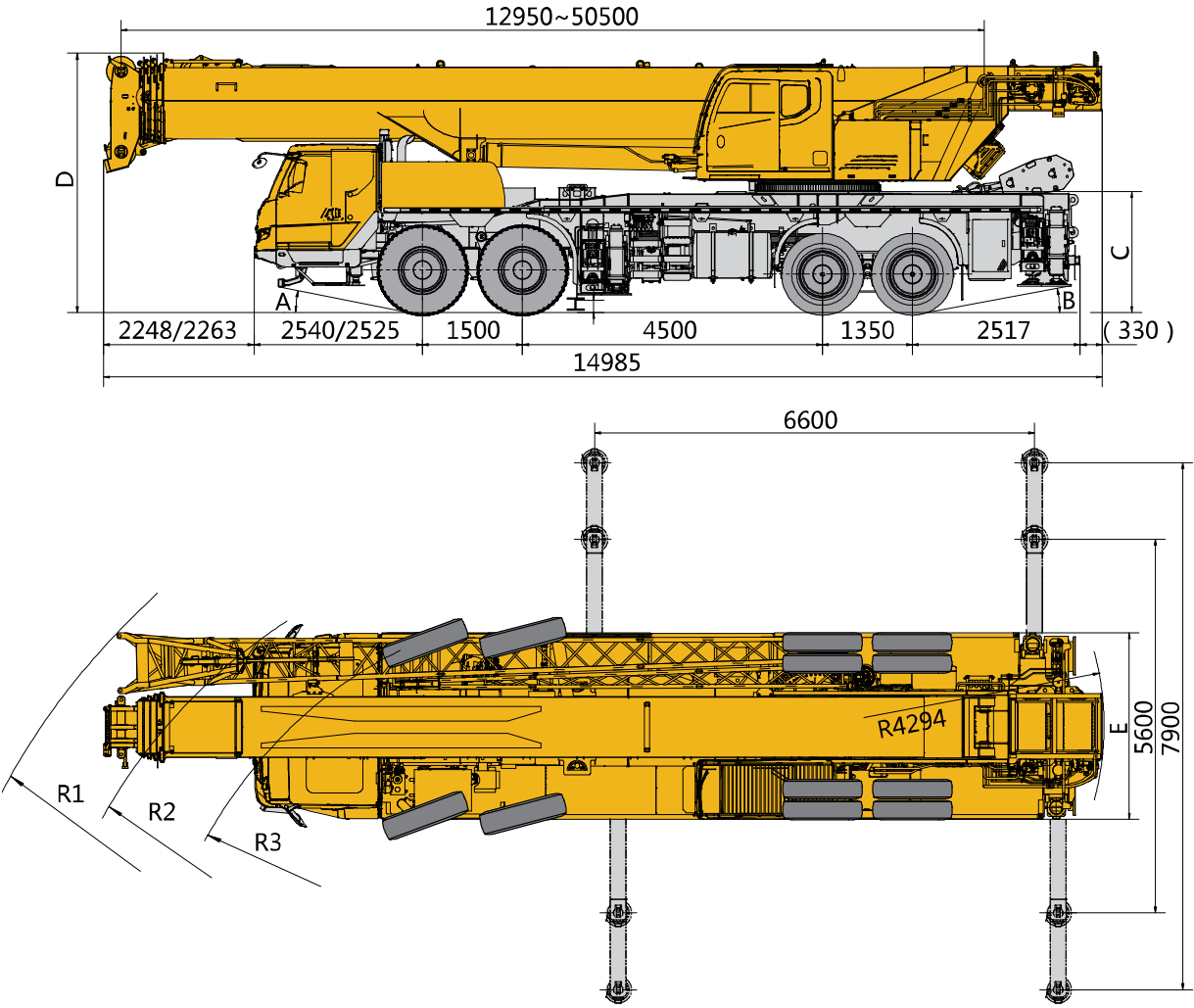


2023年6月第2版
2st edition, June 2023

目录
Contents

目录 Contents	
尺寸参数 Dimensions	2
技术规格 Technical specifications	3-6
车型 Version	7
重量/作业速度 Weight / Working speeds	8
平衡重 Counterweight	9
臂架组合方案 Boom / Jib combinations	10-11
主臂 Boom	12-15
副臂 Jib	16-17
符号标识 Description of symbols	18
主要技术参数表 Table of main technical parameters	19-20
注意事项 Notes	21

尺寸参数
Dimensions



	A	B	C	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°	1812	3886	2800	14950	14050	12000	260

备注：当配置齐星驾驶室时，前伸:2248mm，前悬为2540mm；当配置徐工汽车驾驶室时，前伸:2263mm，前悬为2525mm。

Remark: Front extension: 2248 mm, front overhang: 2540 mm (equipped with Qixing driver's cab);
Front extension: 2263 mm, front overhang: 2525 mm (equipped with XCMG Automobile driver's cab).

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，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：827KN
发动机	WP10H400E62，直列六缸水冷电控柴油发动机，潍柴制造，额定功率294kW/1900rpm，最大扭矩1900Nm/1200-1300rpm， 最大基准扭矩：2067N.m； 国VI排放标准； 尿素箱容积：30L。 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	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	升级驾驶室。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，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。 标配灭火器；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

	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	
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	
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，可俯仰20°，一体式仪表台，装有无视野死角的前景窗，安全玻璃，车窗顶部、侧方、后方均装有遮阳帘，推拉式车门，皮革+透气网布机械减震座椅，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；前窗顶窗双电机雨刮器，2.5L水壶；标配冷暖空调；丝网地垫	
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；三色报警灯	
组合配重	2t	
	总重31t，有31t、24.6t、19.8t、19.6t、17.6t、15t、14.8t、12.8t、10t、8t、7t、2t共12种配重组合。	
	5t	
	8t	
	4.8t	
	3.2t	

	上车	
起重钩	80t钩	
	55t钩	
	7t钩	

	臂架系统	
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：13 m~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	

技术规格

Technical specifications

	Chassis
Frame	It is designed and manufactured by XCMG. The frame, made of high-strength steel, features fully covered walking surface and anti-torsion box-type structure.
Outriggers	Four outriggers arranged in H-shape are hydraulically controlled by control levers. Double-stage outrigger beam is adopted. There is an outrigger control lever located at each side of the chassis, and there is a level gauge, LED illuminator and speed button on each side of the chassis. There is a check valve fitted in each outrigger cylinder, and a double-way hydraulic valve fitted in each jack cylinder. Float dimension: φ450 mm Reaction force of outrigger at max. lifting load: 827 KN
Engine	WP10H400E62, in-line, 6-cylinder, water cooled, electric control diesel engine, made by Wechai, with rated power of 294 kW/1900 rpm and max. torque of 1900 Nm/1200-1300 rpm, Max. reference torque: 2067 N.m; compliant with China VI emission standard; AdBlue tank capacity: 30 L. Fuel tank capacity: 470 L.
Transmission	Manual transmission, made by Shaanxi Fast Gear Co., Ltd., 10-forward speed and 2-reverse speed.
Alxes	High-strength axles. Axles 1-2 are for steering, and axles 3-4 are for driving.
Suspension	Leaf spring suspension is used as front suspension, and rubber suspension is used as rear suspension.
Tire	12 tires and 1 spare tire. Axles 1-2 are equipped with single tires, and axles 3-4 are equipped with double tires. Tire specifications: 385/95R25 (front axles) 12.00R24/325/95R24 (rear axles)

Braking	Service brake: double-circuit air pressure brake, acting on all wheels. Parking brake: spring-loaded brake, acting on the wheels of axles 2, 3 and 4. Auxiliary brake: engine exhaust brake and engine in-cylinder retarder brake.
Steering	Mechanical steering mechanism with a hydraulic booster for axles 1-2.
Driver’s cab	Deluxe driver’s cab is equipped with a windshield offering outstanding visibility, rearview mirror, electric wiper-washer, electrical window glass lifter, air heater with defrosting function, radio player and floor mat, etc. The co-driver’s seat may be unfolded as a simple sleeper. A fire extinguisher and heater and air conditioner are standard.
Electrical system	24V DC, two sets of 12 V battery in series. Generator: 28 V-80 A.

技术规格

Technical specifications



Superstructure

Frame	Designed and manufactured by XCMG, and made of high-strength steel.										
Hydraulic system	Variable piston pump, driven by chassis engine, is used for hoisting, luffing and telescoping operation. Load sensitive proportional multi-way change valve is integrated with impact resistance valve and cavitation-proof valve; air-cooled hydraulic oil radiator. Tank capacity: 1164 L										
Control system	Pilot hydraulic operating system is controlled by left and right control levers. All crane movements are controlled by hydraulic pump and proportional valve.										
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.										
Luffing system	A front support double-acting hydraulic cylinder is equipped for luffing operation, with a balance valve fitted.										
Operator's cab	Operator's cab can be tilted up or down by 20° . New steel cab is equipped with a full-view windshield, safety glass, sun shield for the roof, side and rear windows, adjustable operator's seat, mechanical shock-absorbing seats made of leather and breathable mesh for the driver and passenger seats. Windshield wiper and dual-motor wiper are fitted. Crane control levers are installed into armrests. A sliding door and a pull-out step are designed for easy and safe access to the cab. Air conditioning and heater are standard. Reticulate floor mat and a 2.5L large-capacity sprayer is also available.										
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 and tri colored light bar.										
Combined counterweight	<table><tr><td>The total weight reaches 31 t, with 12 counterweight combinations including 31 t, 24.6 t, 19.8 t, 19.6 t, 17.6 t, 15 t, 14.8 t, 12.8 t, 10 t, 8 t, 7 t and 2 t.</td><td>2 t</td></tr><tr><td></td><td>5 t</td></tr><tr><td></td><td>8 t</td></tr><tr><td></td><td>4.8 t</td></tr><tr><td></td><td>3.2 t</td></tr></table>	The total weight reaches 31 t, with 12 counterweight combinations including 31 t, 24.6 t, 19.8 t, 19.6 t, 17.6 t, 15 t, 14.8 t, 12.8 t, 10 t, 8 t, 7 t and 2 t.	2 t		5 t		8 t		4.8 t		3.2 t
The total weight reaches 31 t, with 12 counterweight combinations including 31 t, 24.6 t, 19.8 t, 19.6 t, 17.6 t, 15 t, 14.8 t, 12.8 t, 10 t, 8 t, 7 t and 2 t.	2 t										
	5 t										
	8 t										
	4.8 t										
	3.2 t										

Hook block	80 t
	55 t
	7 t
Boom	5-section boom with U cross-section, welded structure. Double-cylinder plus ropes telescoping system. Boom length: 13m~50.5 m.
Single top	Installed at boom head, used for single line operation. Its lifting performance is the same as that of boom, but the max. lifting load does not exceed 6.5 t.
Fixed jib	Two-section lattice jib, welded structure. Three offset angles of 0° , 15° and 30° . Fixed jib length: 10.5 m/17.5 m.

车型
Version

车型 Version	功能描述 Function description	选择 Selection
标准型 Standard	五节主臂50.5m，固定副臂17.5m 5-section boom of 50.5m, fixed jib of 17.5 m	
注释：该产品仅标准型一种车型。 Note: only the standard version is available.		

重量

Weight



Axle	1	2	3	4	总重量 Total weight
t	11.8	11.8	13	13	49.6 ¹⁾
t	11.5	11.5	25.65	25.65	74.3 ¹⁾

1) 公告行驶状态:

上车携带副臂, 55t钩放置在车架后方、不带臂端滑轮、平衡重、80t钩、7t钩、备胎、备胎支架及后配重支架;
In travel configuration: superstructure: jib is included, 55 t hook block is placed at the rear of the frame, and single top, counterweight, 80 t hook block, 7 t hook block, spare tire and its bracket and rear counterweight bracket are excluded.
2) 短途转场状态: 公告状态基础上, 将55t钩放置于车头, 转台后方携带7t配重, 后配重支座携带9.6t配重, 车架前方携带8t配重。

Short-distance jobsite transfer: based on the travel configuration, 55 t hook block is placed at the head of the vehicle, 7 t counterweight is carried on the rear of the turntable, 9.6 t counterweight is carried on the rear counterweight bracket and 8 t counterweight is carried on the rear of the frame.



吊钩 Hook block	倍率 Parts of line	吊钩重量 Weight (kg)	吊钩尺寸 Dimensions (mm)	备注 Remarks
80t	12	700	1735×554×520	单钩 Single hook
55t	8	470	1600×520×370	单钩 Single hook
7t	1	210	717×370×370	单钩 Single hook

作业速度

Working speeds



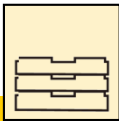
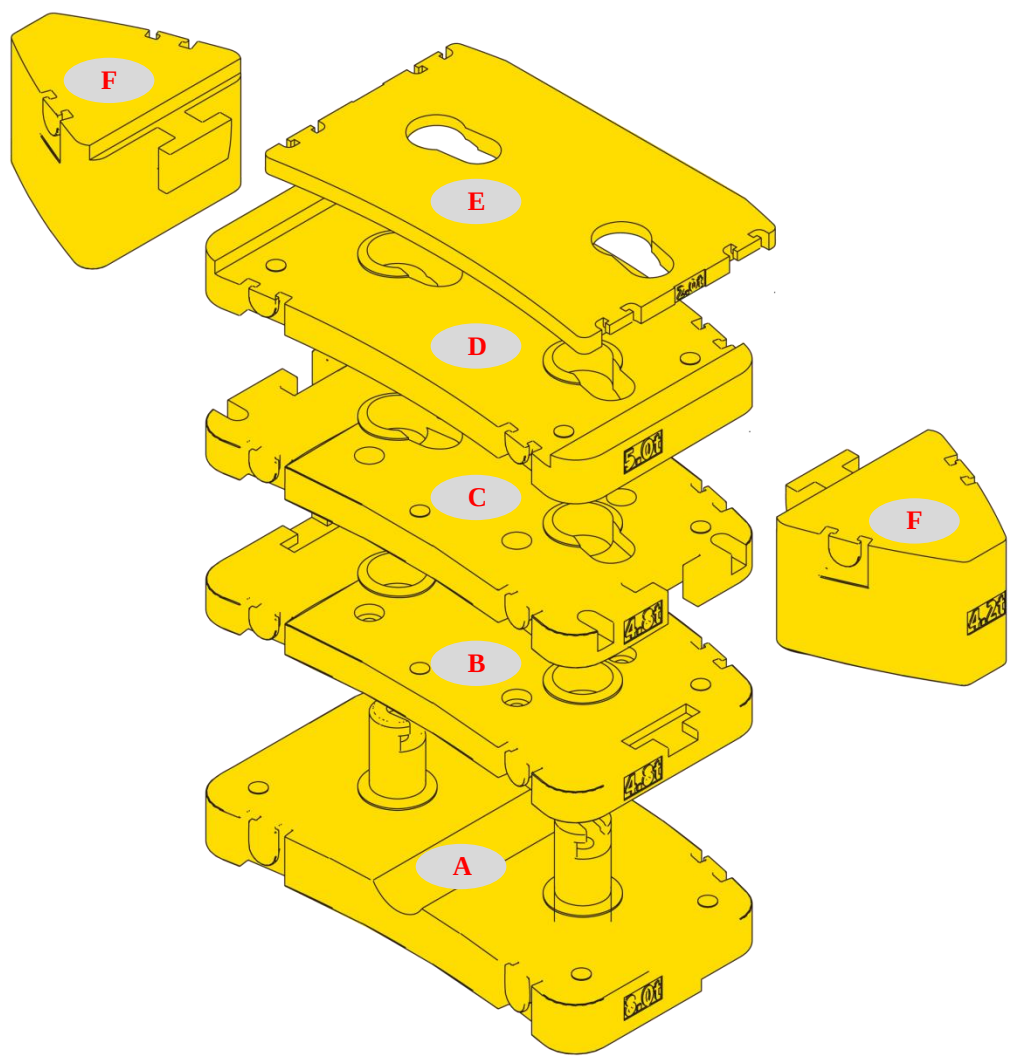
385/95R25 (前桥) (Front axles) 12.00R24/325/95R24 (后桥) (Rear axles)	2.5 ~ 80	47%
--	----------	-----



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
	0-135 m/min, 单绳, 第四层 m/min, single line, 4th layer	6.8t	20 mm/260 m
	0-80 m/min, 单绳, 第四层 m/min, single line, 4th layer	6.8t	20 mm/145m
	0-1.8 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. 135s for boom extending from 13 m to 50.5 m		

平衡重

Counterweight



平衡重 Counterweight		A		B		C		D		E		F	
尺寸 (长×宽×高) mm Dimensions (L×W×H) (mm)		2750×1536×795		2750×1536×223		2750×1536×236		2750×1536×269		2300×1445×102		977×1032×740	
重量 t Weight (t)		8		4.8		4.8		5		2		3.2	

工况模式 Working mode	31t	24.6t	19.8t	19.6t	17.6t	15t	14.8t	12.8t	10t	8t	7t	2t	0t
组合形式 Combinations	A+B+ C+D+ E+2F	A+B+ C+D+ E	A+C+ D+E /A+B +D+E	A+B+ C+E	A+B+ C	A+D+ E	A+B+ E/A+ C+E	A+B/ A+C	A+E	A	D+E	E	——

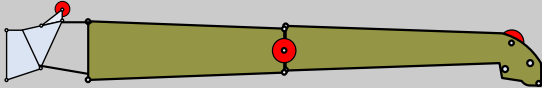
臂架组合方案

Boom / Jib combinations

副臂 – 10.5m
Jib – 10.5m



副臂 – 17.5m
Jib – 17.5m



部件 Component	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		2035×910×1293	236
一节副臂总成 First jib section assembly		9924×780×1104	567
二节副臂总成 Second jib section assembly		6907×446×608	263

臂架组合方案
Boom / Jib combinations

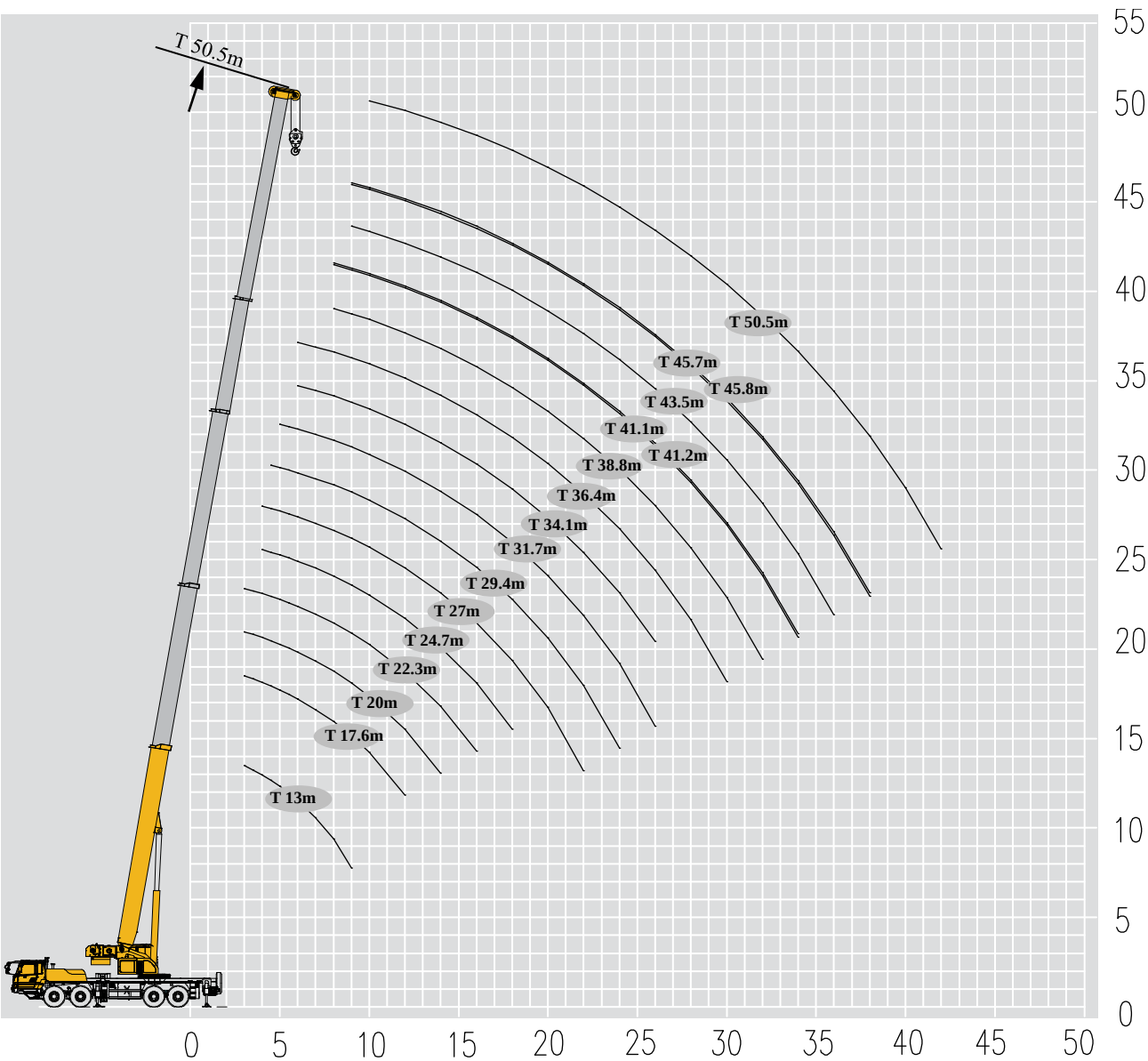


主臂
Boom

T: 13~50.5 m

副臂
Jib

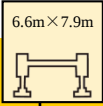
T: 50.5 m
J: 10.5~17.5 m



起重性能表

Lifting load tables

T 13~50.5 m

																		
	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	
3	100*																	3
3	88	73	42	58.5														3
3.5	80	71.5	42	58.5														3.5
4	78	70	42	58.5	42.5	39.5												4
4.5	74.5	68.3	42	58.5	42.5	39.5	42											4.5
5	70.5	66	42	58	42.5	39.5	42	39										5
5.5	65.5	62.5	42	55	42.5	39.5	42	39										5.5
6	60.5	57.8	42	51.5	42.5	39.5	41	39.5	28.2	33								6
7	51	50.3	42	47.5	42.5	38.5	40	39.5	27	33								7
8	43.8	43.1	41	42.5	40	36.1	38.5	38.6	25.3	33	26.1	20.4	28.2					8
9	37.5	37.1	39.3	36.8	38	33.8	36.7	36	24.1	31.3	24.6	19.3	26.8	24.6	22.7	19.2		9
10		32.5	35.1	32.3	34.3	31.7	33.7	33.9	22.3	29.1	23.1	18.3	25.7	23.7	21.7	18.3	17.7	10
12		25.8	28.2	25.4	27.3	28.6	26.6	28.2	20	25.3	21.3	16.5	22.7	21.6	19.8	16.9	16.5	12
14			23	20	22.5	24	21.8	23.3	18.2	22.3	19.6	15	20	19.5	18	15.7	15.5	14
16				16.4	18.6	20.2	18	19.5	16.5	18.9	18	13.7	17.9	17.4	16.4	14.5	14.5	16
18					15.1	16.9	14.5	16.1	14.9	15.5	16.1	12.5	16.1	15.5	15.1	13.3	13.5	18
20						14.2	11.9	13.4	13.6	12.8	14	11.3	13.2	13.4	13.4	12.2	12.4	20
22						12.1	9.8	11.3	12.4	10.7	11.9	10.4	11.1	11.3	11.5	11.3	11.6	22
24							8.2	9.6	10.9	9.1	10.2	9.6	9.5	9.6	9.8	10.3	10	24
26								8.3	9.5	7.7	8.8	8.9	8.1	8.2	8.4	9.2	8.6	26
28										6.7	7.6	8.2	6.9	7.1	7.2	8	7.5	28
30										5.8	6.6	7.6	6.1	6.1	6.3	7	6.6	30
32											5.8	6.7	5.3	5.2	5.6	6.2	5.8	32
34												6	4.6	4.5	4.8	5.5	5.1	34
36														3.9	4.2	4.8	4.4	36
38															3.6	4.3	3.8	38
40																	3.3	40
42																	2.8	42
倍率 n	13	12	7	9	7	6	7	6	5	5	4	4	5	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

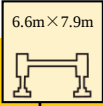
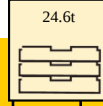
注：表中标注*的工况为名义载荷，表示起重机能力等级。

Note: * Capacity class

起重性能表

Lifting load tables

T 13~50.5 m

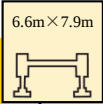
																		
	13	17.6	20	22.3	24.7	27	29.4	31.7	34.1	36.4	38.8	41.1	41.2	43.5	45.7	45.8	50.5	
3	100*																	3
3	88	73	42	58.5														3
3.5	80	71.5	42	58.5														3.5
4	78	70	42	58.5	42.5	39.5												4
4.5	74.5	68.3	42	58.5	42.5	39.5	42											4.5
5	70.5	66	42	58	42.5	39.5	42	39										5
5.5	64.1	62.5	42	55	42.5	39.5	42	39										5.5
6	58.2	57.5	42	51.5	42.5	39.5	41	39.5	28.2	33								6
7	48.8	48.1	42	47.5	42.5	38.5	40	39.5	27	33								7
8	41.8	41.1	41	40.7	40	36.1	38.5	38.6	25.3	33	26.1	20.4	28.2					8
9	36.3	35.6	38	35.2	37.2	33.8	36.6	36	24.1	31.3	24.6	19.3	26.8	24.6	22.7	19.2		9
10		31.2	33.6	30.8	32.8	31.7	32.2	33.6	22.3	29.1	23.1	18.3	25.7	23.7	21.7	18.3	17.7	10
12		24.6	26.9	24.1	26.2	27.7	25.6	27	20	25.3	21.3	16.5	22.7	21.6	19.8	16.9	16.5	12
14			21.2	18	20.3	22.2	19.6	21.3	18.2	20.7	19.6	15	20	19.5	18	15.7	15.5	14
16				13.8	16	17.8	15.4	17	16.5	16.3	17.6	13.7	16.8	17	16.4	14.5	14.5	16
18					12.9	14.6	12.3	13.8	14.9	13.2	14.4	12.5	13.7	13.8	14	13.3	13.5	18
20						12.2	9.9	11.4	12.7	10.8	12	11.3	11.3	11.4	11.6	12.2	11.9	20
22						10.3	8.1	9.6	10.8	9	10.1	10.4	9.4	9.6	9.7	10.5	10	22
24							6.6	8.1	9.3	7.5	8.6	9.6	7.9	8	8.2	9	8.5	24
26								6.8	8	6.2	7.3	8.3	6.6	6.8	6.9	7.7	7.2	26
28										5.2	6.3	7.2	5.6	5.8	5.9	6.7	6.1	28
30										4.3	5.4	6.3	4.7	4.9	5	5.8	5.3	30
32											4.6	5.6	3.9	4.1	4.2	5	4.5	32
34												4.9	3.3	3.4	3.6	4.3	3.8	34
36														2.9	3	3.7	3.2	36
38															2.5	3.2	2.7	38
40																	2.3	40
42																	1.8	42
倍率 n	13	12	7	9	7	6	7	6	5	5	4	4	5	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

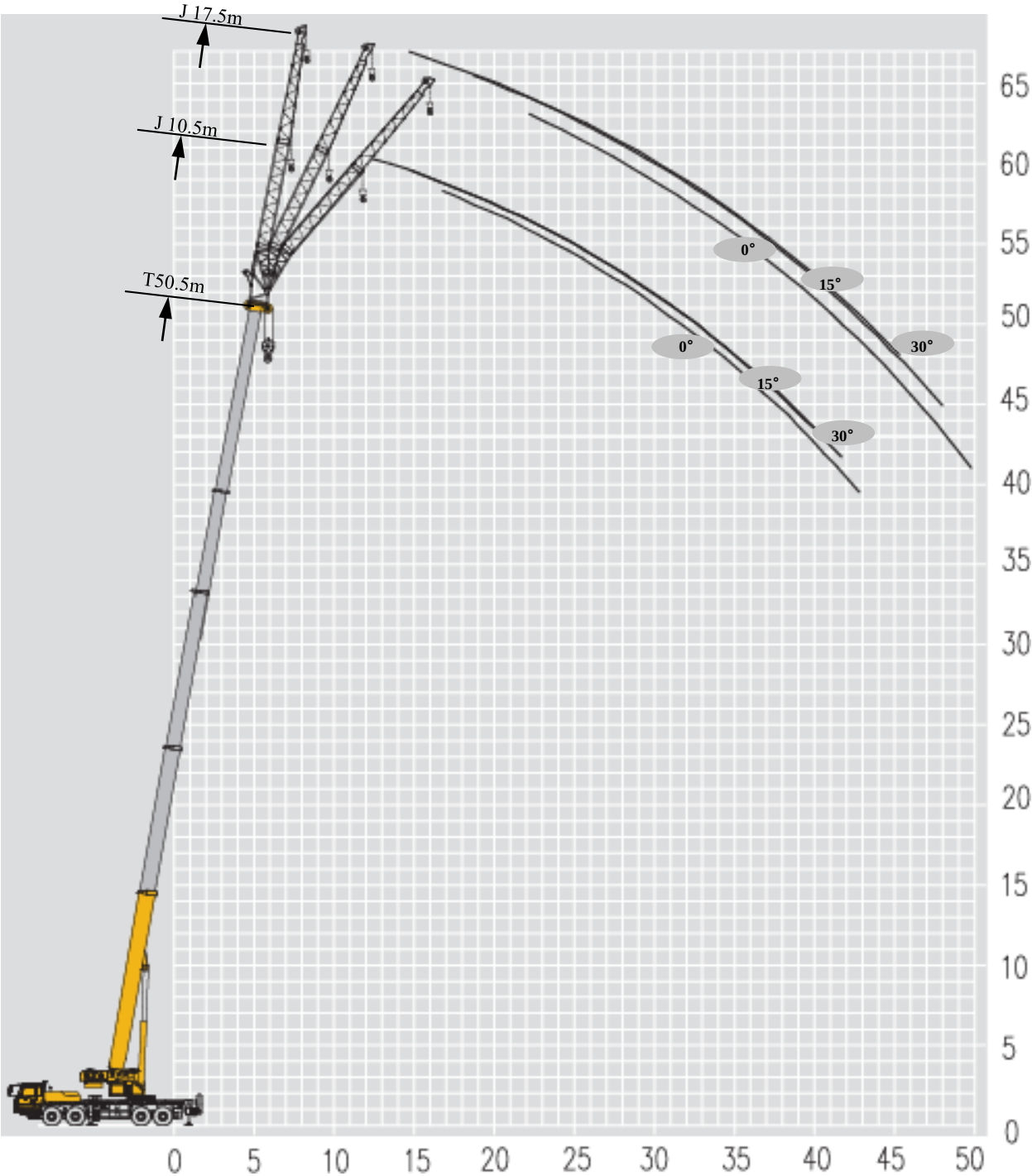
注：表中标注*的工况为名义载荷，表示起重机能力等级。

Note: * Capacity class

起重性能表
Lifting load tables

T 13~50.5 m

																		
	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	
3	80	73	42	58.5														3
3.5	80	71.5	42	58.5														3.5
4	72.8	70	42	58.5	42.5	39.5												4
4.5	64	63.2	42	58.5	42.5	39.5	42											4.5
5	56.9	56.1	42	55.7	42.5	39.5	42	39										5
5.5	51	50.3	42	49.9	42.5	39.5	42	39										5.5
6	46.2	45.5	42	45	42.5	39.5	41	39.5	26	33								6
7	36.1	35	39.3	34.3	37.9	38.5	37	39.5	26	33								7
8	26.6	25.7	29.5	25.1	28.2	30.8	27.4	29.7	25.3	28.8	26.1	20.4	28.2					8
9	20.5	19.6	23.1	18.9	22	24.3	21.2	23.3	24.1	22.5	24.1	19.3	23.1	23.4	22.7	19.2		9
10		15	18.5	14.4	17.4	19.7	16.6	18.7	20.5	17.9	19.5	18.3	18.5	18.8	19	18.3	17.7	10
12		9.3	12.4	8.8	11.4	13.5	10.7	12.6	14.1	11.8	13.3	14.6	12.4	12.6	12.8	13.8	13.2	12
14			8.8	5.3	7.8	9.8	7.1	8.9	10.3	8.2	9.5	10.7	8.7	8.9	9.1	10	9.4	14
16				3.1	5.4	7.3	4.7	6.4	7.8	5.7	7	8.1	6.2	6.4	6.6	7.5	6.9	16
18					3.7	5.5	3	4.6	6	4	5.2	6.3	4.5	4.6	4.8	5.7	5.1	18
20						4.1	1.8	3.3	4.6	2.7	3.9	4.9	3.1	3.3	3.5	4.3	3.8	20
22						3.1		2.3	3.6	1.7	2.9	3.9	2.1	2.3	2.4	3.2	2.7	22
24								1.5	2.7		2	3	1.3	1.4	1.6	2.4	1.9	24
26									2		1.3	2.3				1.7	1.2	26
28												1.7				1.1		28
30												1.2						30
倍率 n	12	12	7	9	7	6	7	6	5	5	4	4	5	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



起重性能表
Lifting load tables

J 10.5 m/17.5 m

	50.5 m 10.5m/17.5m 6.6m×7.9m 360° 31t						
	10.5m			17.5m			
	0°	15°	30°	0°	15°	30°	
80	6.5	6.5	4.6	4.4	3.3	2.4	80
78	6.5	6.5	4.6	4.3	3	2.3	78
75	6.5	6.4	4.6	4	2.8	2.1	75
72	6.5	6.2	4.5	3.8	2.7	2	72
70	6.5	6	4.3	3.6	2.4	1.9	70
65	6.2	5.4	4.1	3.3	2.2	1.7	65
60	5	4.4	3.9	3.3	2	1.6	60
55	4	3.7	3.3	2.8	1.8	1.5	55
50	3.2	3	2.8	2.2	1.7	1.4	50

	50.5m 10.5m/17.5m 6.6m×7.9m 360° 24.6t						
	10.5m			17.5m			
	0°	15°	30°	0°	15°	30°	
80	6.5	6.5	4.6	4.4	3.3	2.4	80
78	6.5	6.5	4.6	4.3	3	2.3	78
75	6.5	6.4	4.6	4	2.8	2.1	75
72	6.5	6.2	4.5	3.8	2.7	2	72
70	6.5	6	4.3	3.6	2.4	1.9	70
65	6.2	5.4	4.1	3.3	2.2	1.7	65
60	5	4.4	3.9	3.3	2	1.6	60
55	3.8	3.5	3.3	2.8	1.8	1.5	55
50	2.8	2.7	2.6	2.2	1.7	1.4	50

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 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 Outrigger
	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
	主臂加长节 Boom extension		360°全回转 360° rotation
	带载行驶 Travel with 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	14985×2800×3886
	轴距 Wheel base		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)、2525 (徐工汽车) /2517
	前伸/后伸 Front/ Rear extension		mm	2248(齐星)、2263 (徐工汽车) /330
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	11800
		二轴 2nd axle	kg	11800
		三轴 3rd axle	kg	13000
		四轴 4th axle	kg	13000
动力参数 Power	发动机型号 Engine model		——	WP10H400E62
	额定功率/转速 Engine rated power/rpm		kW/(r/min)	294/1900
	最大净功率/转速 Max. net power/rpm		kW/(r/min)	289/1900
	最大输出扭矩/转速 Max. output torque/rpm		N.m/(r/min)	1900/ 1200-1300
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
	最小离地间隙 Min. ground clearance		mm	260
	接近角 Approach angle		°	11 (18拆除前防护)
	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		%	47
	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 when accelerating		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	4294	
	最大起重力矩 Max. load moment	基本臂 Base boom	kN.m	3557	
		最长主臂 Fully-extended boom	kN.m	2501	
		最长主臂+副臂 Fully-extended boom + Jib	kN.m	1628	
	支腿跨距 Outrigger span	纵向 Longitudinal	m	6.6	
		横向 Lateral	m	7.9 (5.6)	
	起升高度 Hoisting 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	66.6	
	起重臂长度 Boom length	基本臂 Base boom	m	12.95	
		最长主臂 Fully-extended boom	m	50.5	
最长主臂+副臂 Fully-extended boom + Jib		m	68		
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	≥1.8	
	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	≤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	≥135
副起升机构 Auxiliary winch		m/min	≥80		
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	

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.