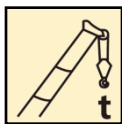


XCT35_Y_1汽车起重机 / Truck Crane

技术规格书

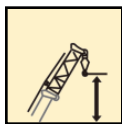
Technical specifications



35 t



35 m



42.5 m



2023年5月 第1版

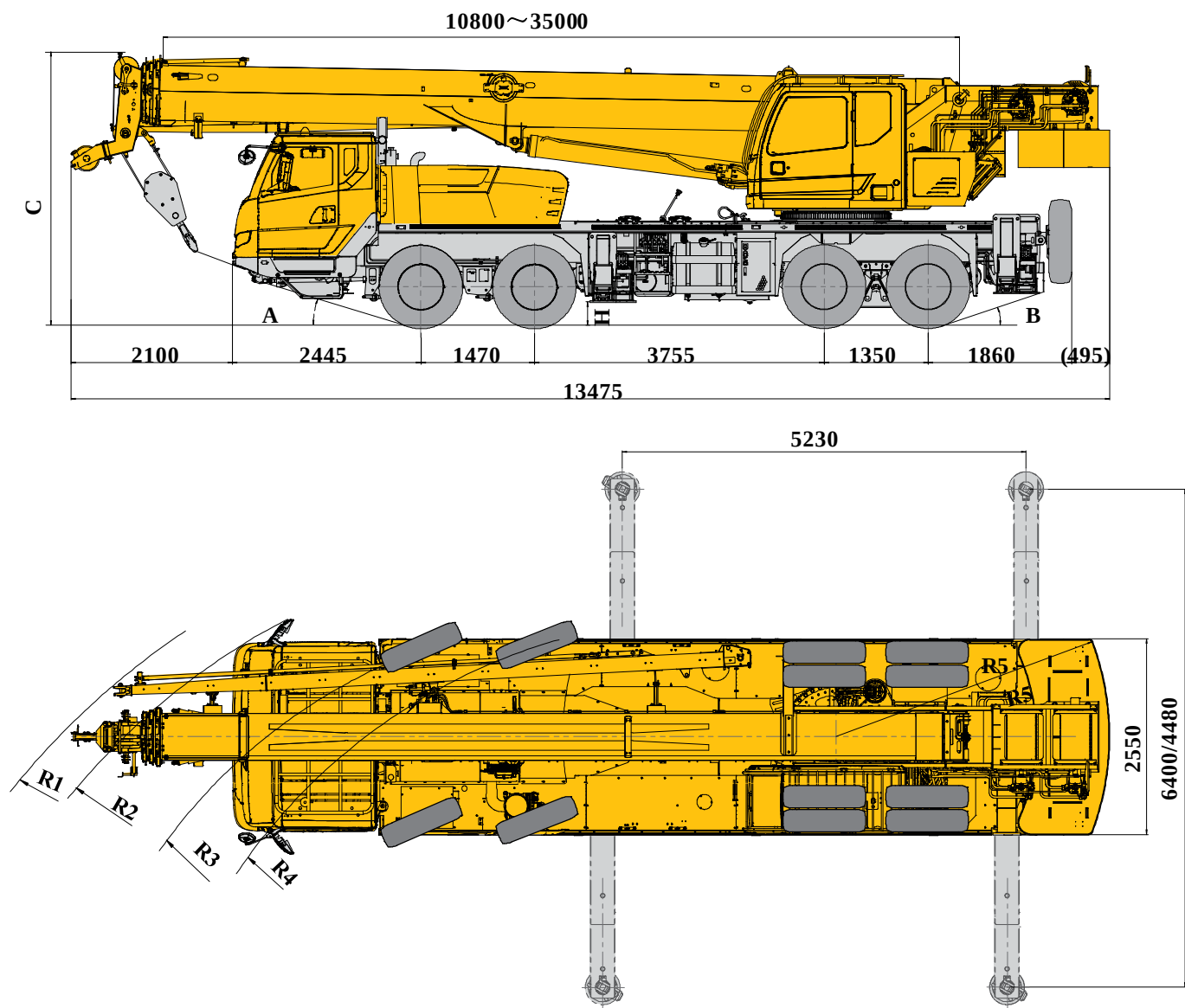
1st edition, May 2023

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尺寸参数

Dimensions



	A	B	C	H	R1	R2	R3	R4	R5
12R22.5	17°	18°	3550	245	13000	12100	10500	9800	3550

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，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。支腿油缸均设有单向阀，且垂直支腿带有双向液压锁。配第五支腿。纵向×横向(全伸)：5.23m×6.40m 支脚盘尺寸：φ400mm 第五支腿支脚盘尺寸：φ260mm 最大起重量时支腿反力：326kN●
发动机	SC7H260Q3，直列六缸增压、中冷柴油发动机，上柴制造，额定功率192kW/2200rpm，最大扭矩1000Nm/1400rpm，国三排放标准。燃油箱容积：240L。●
变速箱	陕齿机械全同步器变速箱，8个前进挡，1个倒档。●
车桥	高强度桥，引进国外先进技术，名牌厂家制造，性能可靠。●
轮胎	12R22.5，适用于重型载重车辆，通用性强●
悬挂	后悬架采用橡胶悬架，V型推力杆，自重轻，定位效果好，免维护，维修方便。●
制动	行车制动：脚踏板操纵的双回路气压制动。第一回路作用于一、二轴车轮上，第二回路作用于三、四轴车轮上。 驻车制动：弹簧贮能制动，作用于三、四轴车轮； 辅助制动：发动机排气制动，安全可靠，延长制动摩擦片使用寿命。●

 底盘	配置
转向	机械式转向机构，带有液压助力。●
驾驶室	新型全头钢结构驾驶室，采用四点式连接结构，两侧外开式车门。主驾可手动调节高度；副驾采用双座椅，可展开为简易卧铺，便于驾驶员临时休息。安全玻璃配备电动升降器，隔热效果良好；后视镜可电动调节，安全方便；方向盘可调节高度及角度，适合各个高度的操作人群。 配备冷暖空调。●
电气系统	直流24伏特，串联12伏特的蓄电池2个。发电机输出电压28±0.3V，输出电流70A●
安全装置	液压双向锁●
	ABS○
	倒车影像○
	旋转报警灯○

技术规格

Technical specifications

	上车	配置
结构	徐工设计、制造，高强度钢材制造	●
液压系统	专用节流装置匹配阀后补偿负载敏感设计，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，主、副卷作业速度高达120m/min，作业效率全面领先，复合动作时双泵独立供油各执行元件流量分配更优化，作业效率突出。	●
操纵方式	先导操纵	●
	机械操纵	○
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	按人机工程学设计，外开式车门（先导），可调式座椅。 装有安全玻璃和顶部保护栏。前窗装有遮阳帘。标配风扇，单冷空调。	●
	按人机工程学设计，外开式车门（机械），可调式座椅。 装有安全玻璃和顶部保护栏。前窗装有遮阳帘。标配风扇，单冷空调。	○
平衡重	固定式平衡重4.2t。	●

	上车	配置
安全装置	液压平衡阀；液压溢流阀；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；	●
	角度指示器	○
	风速仪	○
	卷扬监视器	○
	回转警示灯	○
吊钩	30t吊钩， 3t吊钩	●

技术规格

Technical specifications

	臂架系统	配置
主臂	伸缩臂采用抗扭曲设计，采用高强度结构钢制造，四节U形截面主臂，采用单缸绳排伸缩方式。 主臂长度：10.8m～35m	●
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3.5t.	●
腹置副臂	采用箱型腹置副臂侧置，安装角度5°、15°、30°。 固定副臂长度：8m	●

产品各部件明细如上所述，具体部件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	The frame, designed and manufactured by XCMG, 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 at any 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. Fifth jack is equipped. Longitudinal × lateral (fully-extended): 5.23 m×6.40 m Outrigger float diameter: φ400 mm 5th jack float diameter: φ260 mm Reaction force of outrigger at max. lifting load: 326kN	●
Engine	SC7H260Q3, made by Shanghai Diesel Engine, 6-cylinder in-line, supercharged diesel engine, with rated power of 192 kW/2200 rpm, max. torque of 1000 Nm/1400 rpm, compliant with China III emission standard. Fuel tank capacity: 240L.	●
Transmission	Mechanical transmission, made by Shaanxi Fast Gear Co., Ltd., 8-forward speed and 1-reverse speed.	●
Axle	High strength axles, made by famous makers through adoption of foreign advanced technology, with reliable performance.	●
Tires	12R22.5 tires, suitable for heavy duty vehicles, strong commonality.	●
Suspension	Rubber suspensions with V-type push rod for rear suspensions, featuring light dead weight, better positioning effect, free of maintenance.	●

	Chassis	
Braking system	Service brake: foot pedal operated double-circuit air pressure brake.1st circuit acts on the wheels of 1st and 2nd axes, and 2nd circuit acts on the wheels of 3rd and 4th axes. Parking brake: spring-loaded brake, acting on wheels of axes 3 and 4; Auxiliary brake: engine exhaust brake, which is safe and reliable, and will prolong the service life of brake lining.	●
Steering system	Mechanically steering mechanism with a hydraulic booster.	●
Driver's cab	New type, steel, full dimension cab with 4-point connecting structure, has swing-out doors at both sides. The driver's seat is manually adjustable in height. A simple sleeper for the co-driver's seat is installed to supply comfort and reduce fatigue. The cab has better thermal insulation effect. Safety glass, electrically operated door window lifters, electrically adjusted mirrors make operation convenient and safe. Steering wheel is adjustable in height and angle. Heating and air conditioning are available.	●
Electrical system	24V DC, two sets of 12V battery in series. Generator output voltage is 28±0.3 V, and output current is 70 A.	●
Safety devices	Double-way hydraulic lock	●
	ABS	○
	Backup camera	○
	Beacon light switch	○

技术规格

Technical specifications

	Supers tructure	
Structure	Designed and manufactured by XCMG, made of high strength steel.	●
Hydraulic system	Dedicated throttle control with flow sharing system and load sensing system is available. The min. flow of the system is more stable, and the stiffness of the system is more reasonable. Fine control and smoothness of the operation is outstanding. Dual-pump confluence for lifting, luffing and telescoping is adopted; working speed of main and auxiliary winches is up to 120m/min; working efficiency is ahead of all same-tonnage cranes. Dual-pump independent oil supply for simultaneous movements contributes to optimized flow distribution of actuators and improved working efficiency.	●
Control system	Pilot control	●
	Mechanical control	○
Main winch	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	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 dual-acting hydraulic cylinder is equipped for luffing operation, with a counterbalance valve fitted.	●

	Supers tructure	
Operator's cab	Operator's cab is designed according to ergonomics with outward-open door (pilot) and adjustable seat. It is equipped with safety glass and roof protective grilles. Sun visor is equipped at the windshield. Standard fan and air conditioning.	●
	Operator's cab is designed according to ergonomics with outward-open door (mechanical) and adjustable seat. It is equipped with safety glass and roof protective grilles. Sun visor is equipped at the windshield. Standard fan and air conditioning.	○
Counterweight	The weight of the fixed counterweight is 4.2 t.	●
Safety devices	Hydraulic counterbalance valve, hydraulic relief 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.	●
	Angle indicator	○
	Anemometer	○
	Winch monitor	○
	slewing warning light	○
Hook block	30 t hook block	●
	3 t hook block	

技术规格

Technical specifications

	Boom and jib system	
Boom	Four-section boom with U-shape profile is made of high strength steel, with special anti-deformation design. Single cylinder plus ropes is used to telescope the boom. Boom length: 10.8 m~35 m	●
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 3.5 t.	●
Under slung jib	Box-type under slung jib can be stowed along the boom, with offset angles of 5° , 15° and 30° . Fixed jib length: 8 m.	●

Product parts list is as mentioned above.
Please refer to the product quotation for specific parts.
Symbol explanation:
● ——standard configuration;
○ ——optional configuration.

重量
Weight



车桥 Axle	1	2	3	4	总重量 Total weight
t	5	5	9.755	9.755	29.51



吊钩 Hook	倍率 Parts of line	吊钩重量 Weight (kg)	吊钩尺寸 Dimensions (mm)	备注 Remarks
30t	8	260	1202×390×353	单钩 Single hook , 标配 Standard
3t	1	60	518×236×236	单钩 Single hook , 标配 Standard

作业速度
Working speeds



12R22.5	2 ~ 85	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
	0-120 m/min , 单绳 , 第四层 m/min, single line, 4th layer	34 kN	16 mm/150 m
	0-120 m/min , 单绳 , 第四层 m/min, single line, 4th layer	34 kN	16 mm/100 m
	0-2 r/min		
	从0°抬起至80°约37s Approx 37 s for boom elevation from 0° to 80°		
	从10.8m伸出至35m约55s Approx. 55 s for boom extension from 10.8 m to 35 m		

臂架组合方案
Boom/ Jib combinations



主臂
Telescopic boom

T : 10.8~35m

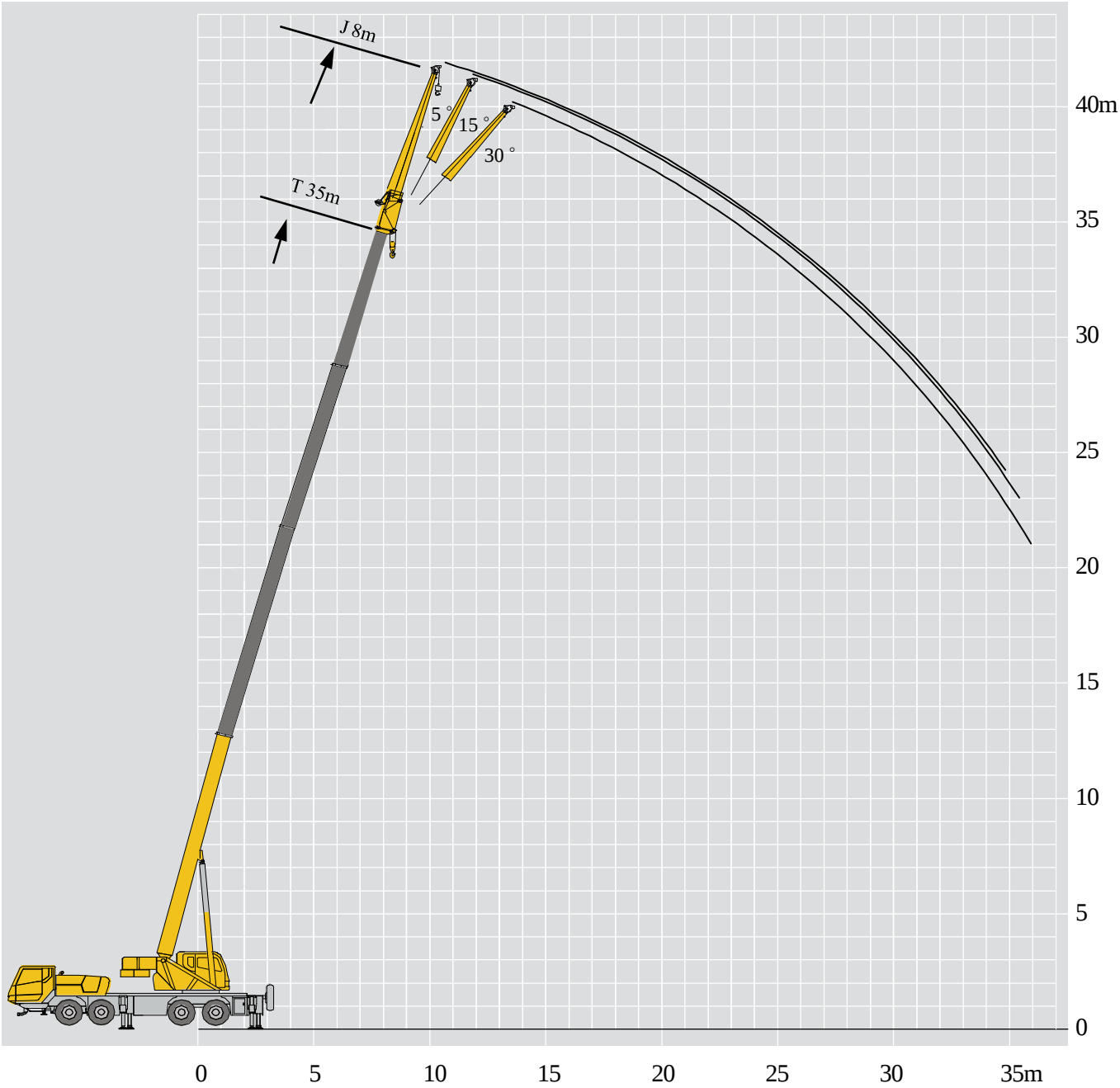
副臂
Jib

T : 35m
J : 8 m



  							
	10.8m	15.6m	20.5m	25.3m	30.2m	35m	
2.5	35*						2.5
3	30						3
3.5	30	20					3.5
4	28	20	19.5				4
4.5	24	20	18.2				4.5
5	21.5	20	18.2	13.6			5
5.5	19.2	19.6	18	13			5.5
6	17.3	17.8	17	12	9		6
6.5	15.8	16.2	16	11.5	8.8		6.5
7	14.3	14.8	15	11	8.6	7.3	7
8	11.3	11.8	12.1	10.2	8.3	7.2	8
9		9.7	9.9	9.5	8	6.7	9
10		8.1	8.4	8.5	7	6.1	10
12		6	6.2	6.4	6.3	5.2	12
14			4.8	4.9	5	4.4	14
16			3.8	3.9	4	3.8	16
18				3.1	3.2	3.3	18
20				2.5	2.6	2.7	20
22				2.1	2.1	2.2	22
24					1.8	1.8	24
26					1.4	1.5	26
28						1.2	28
30						1	30

备注：标注*的工况为名义载荷，代表起重能力等级。
Note: * capacity class.



						
	5°		15°		30°	
78	2.8		2		1.6	78
76	2.8		1.85		1.5	76
74	2.7		1.8		1.45	74
72	2.6		1.75		1.4	72
70	2.45		1.6		1.35	70
68	2.35		1.55		1.3	68
66	2.2		1.45		1.25	66
64	2.05		1.35		1.2	64
62	1.9		1.25		1.15	62
60	1.75		1.15		1.1	60
58	1.6		1.05		1.05	58
56	1.5		1		1	56
54	1.25		0.95		0.95	54
52	1.1		0.9		0.9	52
50	1		0.85		0.75	50
45	0.75		0.55		0.55	45

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
	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° operation of the boom
	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	13475×2550×3550
	轴距 Axle spacing		mm	1470/3755/1350
	轮距（前/后） Track (Front/ Rear)		mm	2060/1840
	前悬/后悬 Front/ Rear overhang		mm	2445/1860
	前伸/后伸 Front/ Rear extension		mm	2100/495
重量参数 Weight	最大允许总质量 Max. permissible total weight		kg	29510
	轴荷 Axle load	一轴 1st axle	kg	5000
		二轴 2nd axle	kg	5000
		三轴 3rd axle	kg	9755
		四轴 4rd axle	kg	9755
动力参数 Power	发动机型号 Engine model		——	SC7H260Q3
	额定功率/转速 Rated power/rpm		kW/(r/min)	192/2200
	最大净功率/转速 Max. net power/rpm		kW/(r/min)	188/2200
	最大输出扭矩/转速 Max. output torque/rpm		N.m/(r/min)	1000/1400
行驶参数 Travel	最高车速 Max. travel speed		km/h	≥85
	最低稳定车速 Min. stable travel speed		km/h	2～3
	最小转弯直径 Min. turning diameter		m	≤21
	臂头最小转弯直径 Min. turning diameter at boom tip		m	≤26
	最小离地间隙 Min. ground clearance		mm	245
	接近角 Approach angle		°	17
	离去角 Departure angle		°	18
	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	30
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	35
	最小额定工作幅度 Min. rated working radius			m	2.5
	转台尾部回转半径 Turning radius at turntable tail			mm	3550
	最大起重力矩 Max. load moment	基本臂 Base boom		kN.m	1098
		最长主臂 Fully-extended boom		kN.m	612
		最长主臂+副臂 Fully-extended boom + Jib		kN.m	392
	支腿跨距 Outrigger span	纵向 Longitudinal		m	5.23
		横向 Lateral		m	6.4
	起升高度 Hoist height	基本臂 Base boom		m	10.7
		最长主臂 Fully-extended boom		m	34.6
		最长主臂+副臂 Fully-extended boom + Jib		m	42.5
	起重臂长度 Boom length	基本臂 Base boom		m	10.8
		最长主臂 Fully-extended boom		m	35
		最长主臂+副臂 Fully-extended boom + Jib		m	43
副臂安装角 Jib offset angle			°	5, 15, 30	
工作速度参数 Working speed	起重臂起臂时间 Boom raising time			s	≤37
	起重臂全伸时间 Boom fully extending time			s	≤55
	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	≤35
			放 Extending	s	≤35
		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	≥120
副起升机构 Auxiliary winch		m/min	≥120		
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).



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