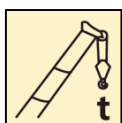
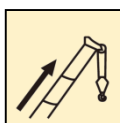


汽车起重机 / Truck Crane

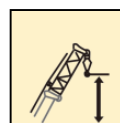
QY25KC



25 t



35 m



43.4 m



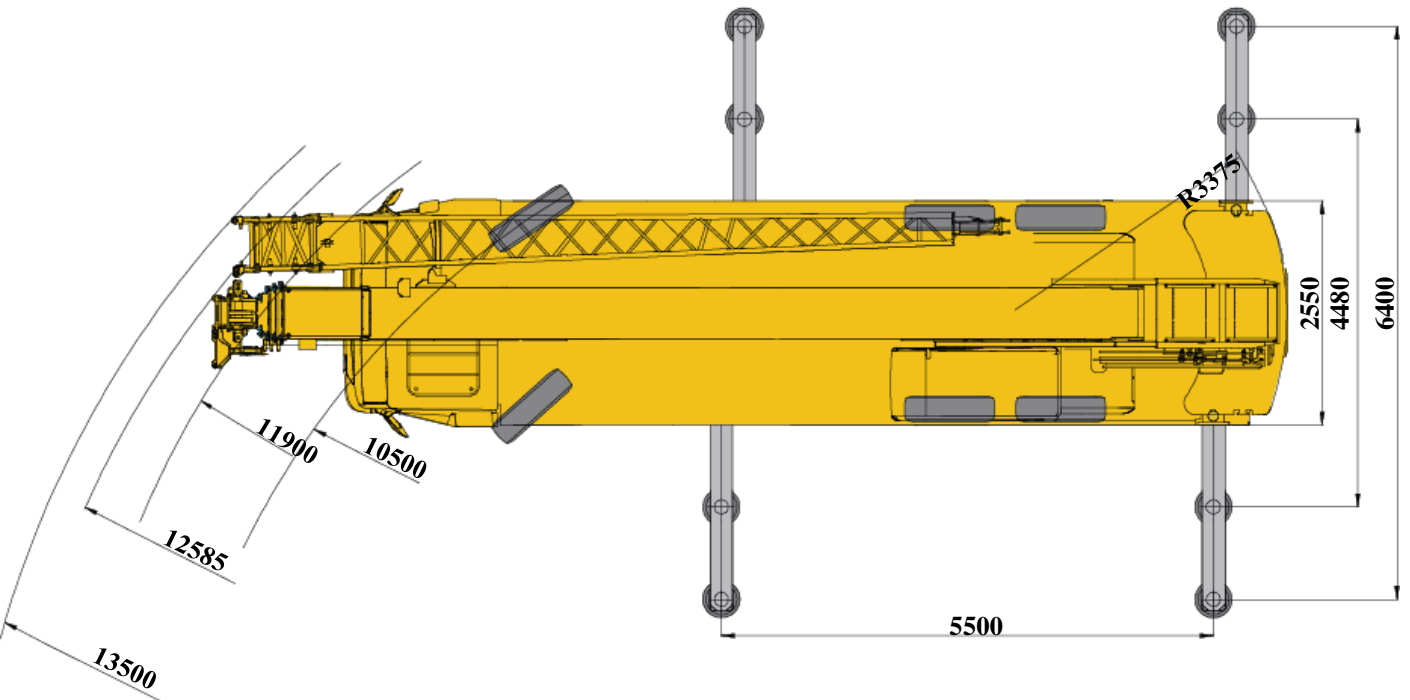
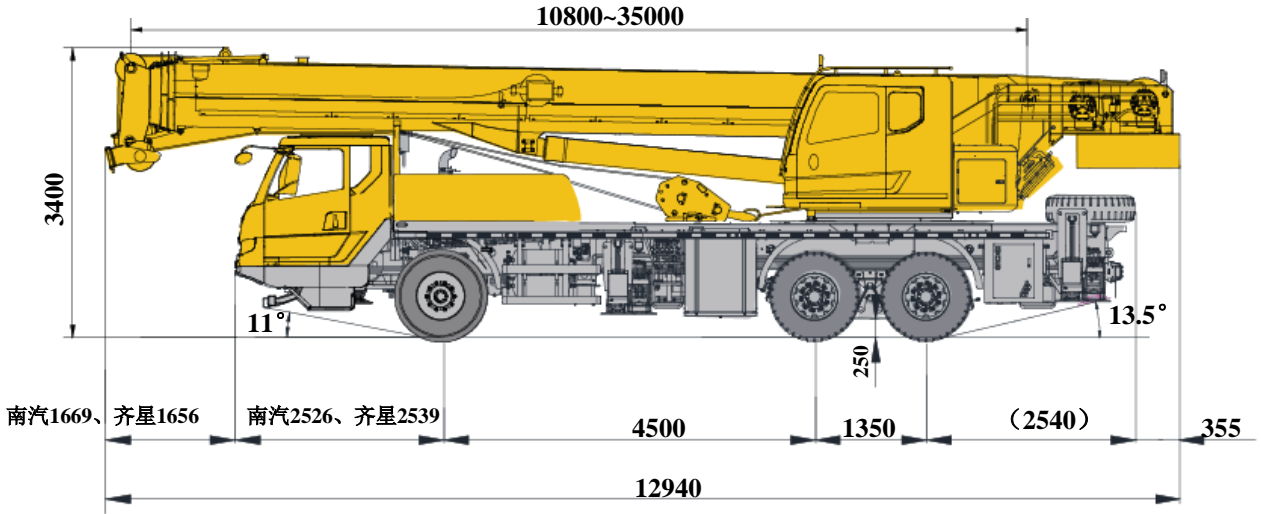
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尺寸参数 Dimensions



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；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：φ400mm 最大起重量时支腿反力：323KN ●
发动机	SC9DF300.1Q5，直列六缸水冷电控柴油发动机，上柴，额定功率221kW/2200rpm，最大扭矩1250Nm/1400rpm，国V排放标准。燃油箱容积：320L。 ●
变速箱	法士特9档变速箱，机械操纵，带同步器。 ●
车桥	配置美驰、汉德高强度车桥，2,3桥驱动。 ●
悬挂	前悬架：纵置钢板弹簧，筒式减震器；后悬架：橡胶悬架，重量轻，免维护。 ●
轮胎	10个轮胎，1个备胎，前 11.00-20 桥装单胎，中桥、后桥 315/80R22.5 装双胎。 ○
制动	行车制动：双回路气压制动，作用于所有车轮。 驻车制动：弹簧贮能制动，作用于2-3轴车轮。 辅助制动：发动机排气制动和缓速制动 ●
转向	机械式转向机构，带有液压助力 ●
驾驶室	全宽驾驶室，乘员3人；配置收放机、可调式座椅、简易卧铺、方向盘、安全玻璃、3只雨刷器、电动后视镜、电动门窗升降器、杂物箱、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-70安培； GPS车载定位通讯终端； ●
电气系统	倒车影像 ○

 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135m/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，推拉式车门（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，冷暖空调。 ●
安全装置	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，冷暖空调。 ○
平衡重	5t ●

技术规格

Technical specifications

 臂架系统	配置
主臂 4节, “U”形截面的筒形焊接结构。 单缸绳排伸缩机构 主臂长度: 10.8m~35m。	●
臂端单滑 单滑轮, 安装在主臂顶端用于单股钢 轮 丝绳起重作业, 起重性能与主臂相同, 但最大起重量不超过3t。	●
固定副臂 1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: 9m	●


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	Configuration
Frame	Designed and manufactured by XCMG, with all covered walking surface, anti-torsion box structure and optimal load-bearing structure design, made of imported high strength steel. ●
Outrigger	4 outriggers, H-shaped arrangement, lateral and vertical outrigger controlled by the hydraulic control. Control levers are located on both sides of the chassis, with a luminous level gauge equipped, with the fifth jack, and the vertical outrigger has two-way hydraulic lock. Outrigger float dimension: φ400mm Max. outrigger reaction force: 323KN ●
Engine	SC9DF300.1Q5 , in-line six-cylinder water-cooled EFI diesel engine, manufactured by Shanghai Diesel Engine Co., Ltd., rated power 221kW /2200rpm, max. torque 1250Nm / 1400rpm, the national V emission standards. Fuel tank capacity: 320L ●
Gearbox	FAST manually mechanical control, 9-speed available, synchronizer is equipped. ●
Axles	High strength axle with reliable performance from Meritor. 2nd axle and 3rd axle for driving ●
Suspension	Front suspension: longitudinal leaf spring suspension with barrel shock absorber; Rear suspension: V-type thrust rod structure, and rubber spring suspension. ●
Tires	10 tires and 1 spare tire, front axle is equipped with 11.00-20 single tire, middle axle and rear axle are equipped with double tire. ● 315/80R22.5 ○
Brakes	Service brake: double-circuit air pressure brake, acting on all wheels. ● Parking brake: spring energy brake, acting on wheels of 2-3 axles. Auxiliary brake: engine exhaust brake and engine in-cylinder brake.
Steering	Mechanically steering mechanism with hydraulic power assisted. ●
Driver's cab	Full-dimension driver's cab, three passengers are allowable. Equipped with radio, adjustable seats, simple sleeper , steering wheel, safety glasses, electrically controlled windshield washer, electrically operated rearview mirror , electrically operated door window and glove box. Heater and air conditioner are available. ●
Electrical system	24V DC, two sets of battery. ● Generator: 28.5±0.3V-70 A GPS Vehicle mounted positioning communication terminal
Electrical system	Backup camera ○

 Superstructure	Configuration
	Designed and manufactured by XCMG; made of high-strength steel ●
Hydraulic system	Exclusive matching throttle with compensation afterwards and load-sensitive technology results in the higher stability of the lowest system flow, more reasonable system rigidity, more outstanding fine control and smoothness. With double-pump confluence of hoisting, elevating and telescoping, the working speed of main and auxiliary winch can reach 135m/min, which improves the working efficiency greatly. The distribution of flow in actuators is more optimized when conducting compound movements and the working efficiency is more outstanding. ●
Operating mode	Hydraulic control ● Mechanical control ○
Main winch system	Hydraulic controlled speed regulation, groove drum is equipped, driven by hydraulic motor through planetary gear reducer, and built-in normally closed brake and counterbalance valve are available. ●
Auxiliary winch system	Hydraulic controlled speed regulation, groove drum is equipped, driven by hydraulic motor through planetary gear reducer, and built-in normally closed brake and counterbalance valve are available. ●
Slewing system	Four-point ball contact slewing ring. Slewing system is driven by hydraulic motor with planetary gear reducer, for 360° continuous rotation, stepless slewing speed regulation is available. Horn button is equipped on the control lever. ●
Elevating System	Single-supported double acting front-mounted hydraulic elevating cylinder, with balance valve equipped. ●
Operator's cab	Ergonomic cab design, with a sliding door (when hydraulic control), safety glass, sun visor, adjustable seats and protective rails equipped. Fan is standard and air-conditioner is standard. ● Ergonomic cab design, with a swing-out door (when mechanical control) , safety glass, sun visor, adjustable seats and protective rails equipped. Fan is standard and air-conditioner is standard. ○
Safety devices	Hydraulic balance valve; Hydraulic relief valve; Double-way hydraulic valve; LMI; spring aligning device for joystick; Lowering limiter for preventing wire rope from over-releasing; Anti-two block at boom head for preventing wire rope from over-winding; tri-color warning lamp. ●
Counterweight	5 t ●

技术规格

Technical specifications

 Boom system	Configuration
Boom 4-section, U-shape cross section, welding structure. Boom length: 10.6m ~ 35m.	●
Single top Single pulley, fitted on boom head, used for single line operation. Its lifting performance is the same as that for boom, but could not exceed 3t.	●
Jib 1-section, Lattice jib, welded structure. Three offset angles of 0° , 15° and 30° . Fixed jib length: 9m	●

Product parts details As mentioned above, please refer to the product quotation for specific parts.

Symbol illustration:

- — standard configuration
- — optional configuration

重量 Weight






车桥 Axle	1	2	3	总重量 Total weight
t	6.3	11.95	11.95	30.2








吊钩 Hook	倍率 No. of lines	吊钩重量 Weight kg	吊钩尺寸 Dimensions mm	备注 Remarks
25t	8	260	366×430×1252	单钩 Single hook, 标配 Standard
3t	1	60	236×236×503	单钩 Single hook, 标配 Standard

作业速度 Working speeds



		
11.00-20 315/80 R 22.5 (选装)	2.5 ~ 90 km/h	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
	0-135 m/min, 单绳, 第四层 m/min, single line, 4th layer	30 kN	16 mm/150 m
	0-135 m/min, 单绳, 第四层 m/min, single line, 4th layer	30 kN	16 mm/100 m
	0-2.5 r/min		
	从-2°抬起至79°约37s Approx. 37s for boom elevation from -2° to 79°		
	从10.8m伸出至35m约55s Approx. 55s for boom extension from 10.8m to 35m		

臂架组合方案

Boom / Jib combinations

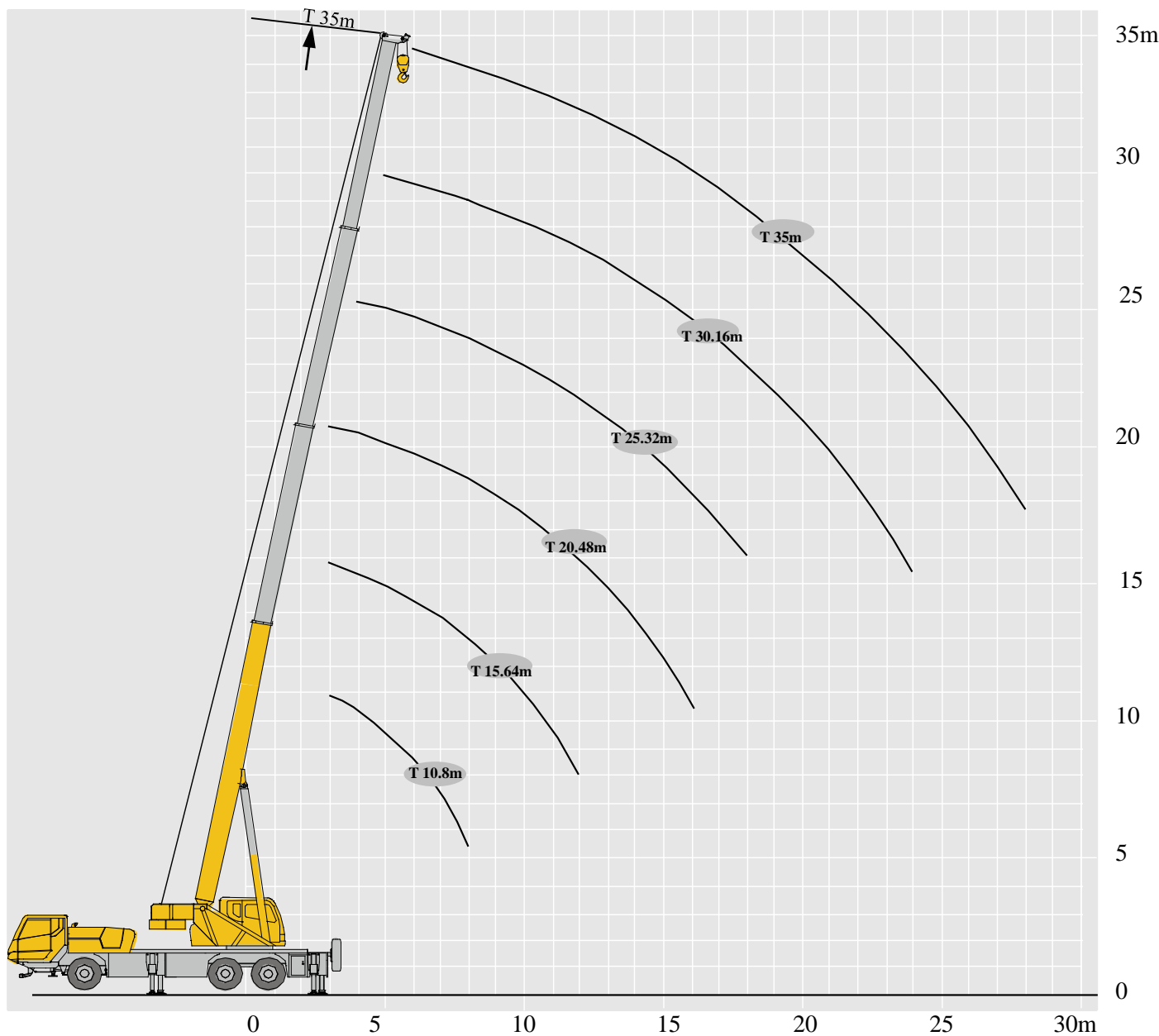


主臂
Telescopic boom

T: 10.8~35m

副臂
Jib



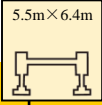


T: 10.8~35m
J: 9 m



起重性能表

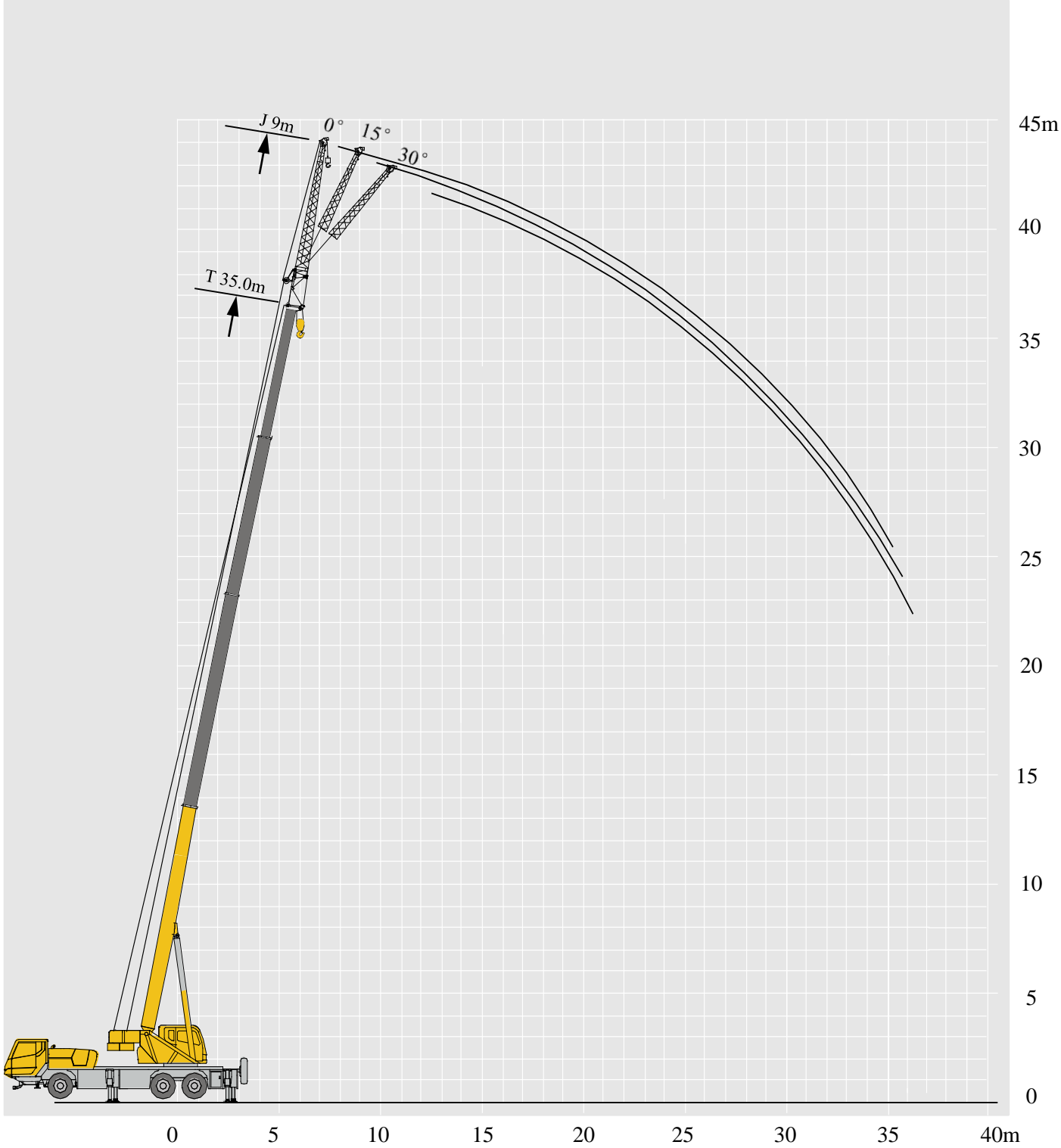
Lifting capacities

T 10.8~35.0m

	 10.8-35.0m	 5.5m×6.4m	 360°				
	10.8m	15.64 m	20.48m	25.32m	30.16 m	35 m	
3	25000						3
3.5	25000	19000					3.5
4	24500	19000	18200				4
4.5	23200	19000	18200				4.5
5	22000	19000	18200	12500			5
5.5	21500	19000	18000	12000			5.5
6	19500	18400	17000	12000	9000		6
6.5	16200	16800	16000	11500	8800		6.5
7	14600	15200	15000	11000	8600	7300	7
8	11500	13000	13600	10200	8300	7200	8
9		10900	11200	9500	8000	6700	9
10		9100	9400	9000	7000	6100	10
12		6700	7000	7000	6300	5200	12
14			5400	5400	5500	4400	14
16			4200	4300	4400	3800	16
18				3400	3500	3400	18
20				2800	2900	2900	20
22				2300	2400	2400	22
24					2000	2000	24
26					1600	1700	26
28						1400	28
30						1200	30

起升高度曲线图
Lifting heights

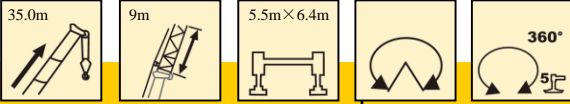
副臂
Jib



起重性能表

Lifting capacities

T 35.0m



	0°	15°	30°	
78	3000	3000	2400	78
75	3000	2800	2300	75
72	3000	2600	2100	72
70	2800	2500	2000	70
65	2800	2400	1800	65
60	2300	2000	1800	60
55	1700	1600	1500	55
50	1300	1300	1200	50
45	1000	800	600	45

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 to correctly calculate the load weight.
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.
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 length given in the rated load charts should accord with the telescoping code of boom sections .

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 Gradability
	吊臂仰角 Boom position		轮胎 Tyres
	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		卷扬 Winch
	副臂起升高度 Hoist height with jib		使用第五支腿360°全回转 360° rotation with 5th jack
			不使用第五支腿侧后方作业 Over side or over rear of the crane

主要技术参数表

Transportation plan

类别 Category	项目 Item	单位 Unit	参数 Parameter	
尺寸参数 Dimensions	外形尺寸 (长×宽×高) Outline size (length×width×height)	mm	12940×2550×3400	
	轴距 Wheel base	mm	4500+1350	
	轮距 (前/后) Track (Front/ Rear)	mm	2059 (汉德)、2074 (美驰) /1834	
	前悬/后悬 Front/ Rear overhang	mm	2526 (南汽)、2539 (齐星) /2540	
	前伸/后伸 Front/ Rear extension	mm	1669 (南汽)、1656 (齐星) /355	
重量参数 Weight	最大允许总质量 Total weight in travel	kg	30200	
	轴荷 Axle load	一轴 1st axle	kg	6300
		二轴 2nd axle	kg	11950
		三轴 3rd axle	kg	11950
动力参数 Power	发动机型号 Engine model	—	SC9DF300.1Q5	
	额定功率/转速 Engine rated power/rpm	kW/(r/min)	221/2200	
	最大净功率/转速 Max. net power/rpm	kW/(r/min)	219/2200	
	最大输出扭矩/转速 Engine rated torque/rpm	N.m/(r/min)	1250/1400	
行驶参数 Travel	最高车速 Max. travel speed	km/h	≥90	
	最低稳定车速 Min. travel speed	km/h	2.5 ~ 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	≤27	
	最小离地间隙 Min. ground clearance	mm	250	
	接近角 Approach angle	°	11	
	离去角 Departure angle	°	13.5	
	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	28	
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

Transportation plan

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	25	
	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	3550	
		副卷处 Auxiliary winch	mm	—	
	最大起重力矩 Max. load moment	基本臂 Base boom	kN.m	1159	
		最长主臂 Fully-extended boom	kN.m	612	
		最长主臂+副臂 Fully-extended boom + Jib	kN.m	521	
	支腿跨距 Outrigger span	纵向 Longitudinal	m	5.5	
		横向 Lateral	m	6.4	
	起升高度 Hoist height	基本臂 Base boom	m	10.2	
		最长主臂 Fully-extended boom	m	34.3	
		最长主臂+副臂 Fully-extended boom + Jib	m	43.4	
	起重臂长度 Boom length	基本臂 Base boom	m	10.8	
		最长主臂 Fully-extended boom	m	35.0	
		最长主臂+副臂 Fully-extended boom + Jib	m	44.0	
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	≤37	
	起重臂全伸时间 Boom fully extended time		s	≤55	
	最大回转速度 Max. slewing speed		r/min	≥2.5	
	支腿收放时间 Outrigger extending and retracting time	水平支腿 Outrigger beam	收 Retracting	s	≤20
			放 Extending	s	≤30
		垂直支腿 Outrigger jack	收 Retracting	s	≤20
			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	≥135	
	副起升机构 Auxiliary winch		m/min	≥135	
噪声 Noise	机外辐射 Exterior noise level		dB (A)	≤108	
	司机位置处 Noise level at seated position		dB (A)	≤85	