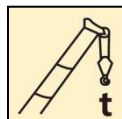


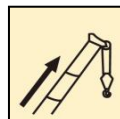
Truck Crane

技术规格书

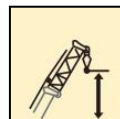
Technical specifications



25t



41m



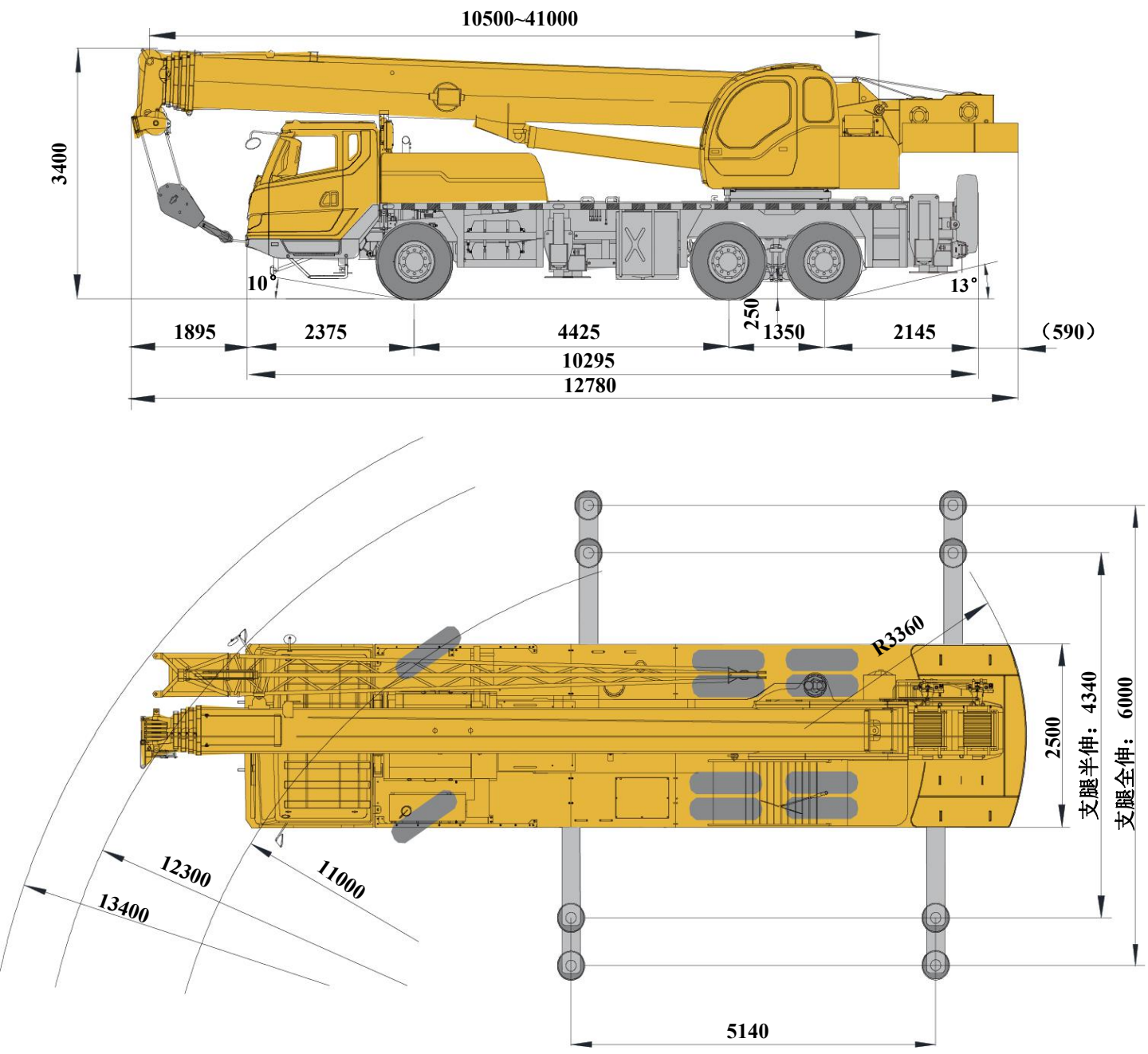
48.5m



2020年10月 第1版

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尺寸参数
Dimensions



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: 310KN ●
Engine	MC07H.32-50, in-line six-cylinder water-cooled EFI diesel engine, manufactured by CNHTC, rated power 235kW /2200rpm, max. torque 1250Nm / 1200-1600rpm, the national V emission standards. ● 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: 240L 2选1 ●
Gearbox	FAST manually mechanical control, 8-speed available, synchronizer is equipped. ●
Alxes	High strength axle with reliable performance from Hande. 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 single tire, middle axle and rear axle are equipped with double tire. Tire specifications: 11.00R20 or 11.00-20 ●
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, two passengers are allowable. Equipped with adjustable seats, steering wheel, safety glasses, electrically controlled windshield washer, electrically operated door window and glove box. Heater and air conditioner are available. ●
Electrical system	24V DC, two sets of battery. Generator: 28V-70 A GPS Vehicle mounted positioning communication terminal ●



Superstructure	Configuration
Frame	Designed and manufactured by XCMG; made of high-strength steel ●
Hydraulic system	Quadruple pump is driven by the engine. constant delivery pump is used for lifting, elevating, telescoping and slewing; Load sensitive proportional multi-way change valve, impact-resistant valve and anti-cavitation corrosion valve are equipped. Air-cooled hydraulic oil radiator; Volume of hydraulic oil tank: 474L ●
Operating mode	Hydraulic pilot control of all crane movements using two control levers. All crane movements are controlled by hydraulic pump and proportional valve. ●
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 swing-out doors, safety glass, sun visor, adjustable seats and protective rails equipped. 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. ●
Safety devices	Anemometer, winch monitor device; level gauge. ○

技术规格

Technical specifications

 Boom system	Config uration
Boom 5-section, U-shape cross section, welding structure. Boom length:10.5m ~ 41m.	●
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 2.8t.	●
Jib 1-section, Lattice jib, welded structure. Three offset angles of 0° , 15° and 30° . Fixed jib length: 8.3m	●

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	7.3	12.6	12.6	32.5



吊钩 Hook	倍率 No. of lines	吊钩重量 Weight kg	吊钩尺寸 Dimensions mm	备注 Remarks
25t	10	297	417×450×1175	单钩 Single hook , 标配 Standard
2.8t	1	55	236×236×503	单钩 Single hook , 标配 Standard

作业速度
Working speeds



11.00R 20/11.00-20	2.5 ~ 80	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
	0-125 m/min, 单绳, 第四层 m/min, single line, 4th layer	28 kN	14 mm/180 m
	0-125 m/min, 单绳, 第四层 m/min, single line, 4th layer	28 kN	14mm/105 m
	0-2.5 r/min		
	从-2°抬起至80°约38s Approx. 38s for boom elevation from -2° to 80°		
	从10.5m伸出至41m约93s Approx. 93s for boom extension from 10.5m to 41m		

臂架组合方案
Boom / Jib combinations

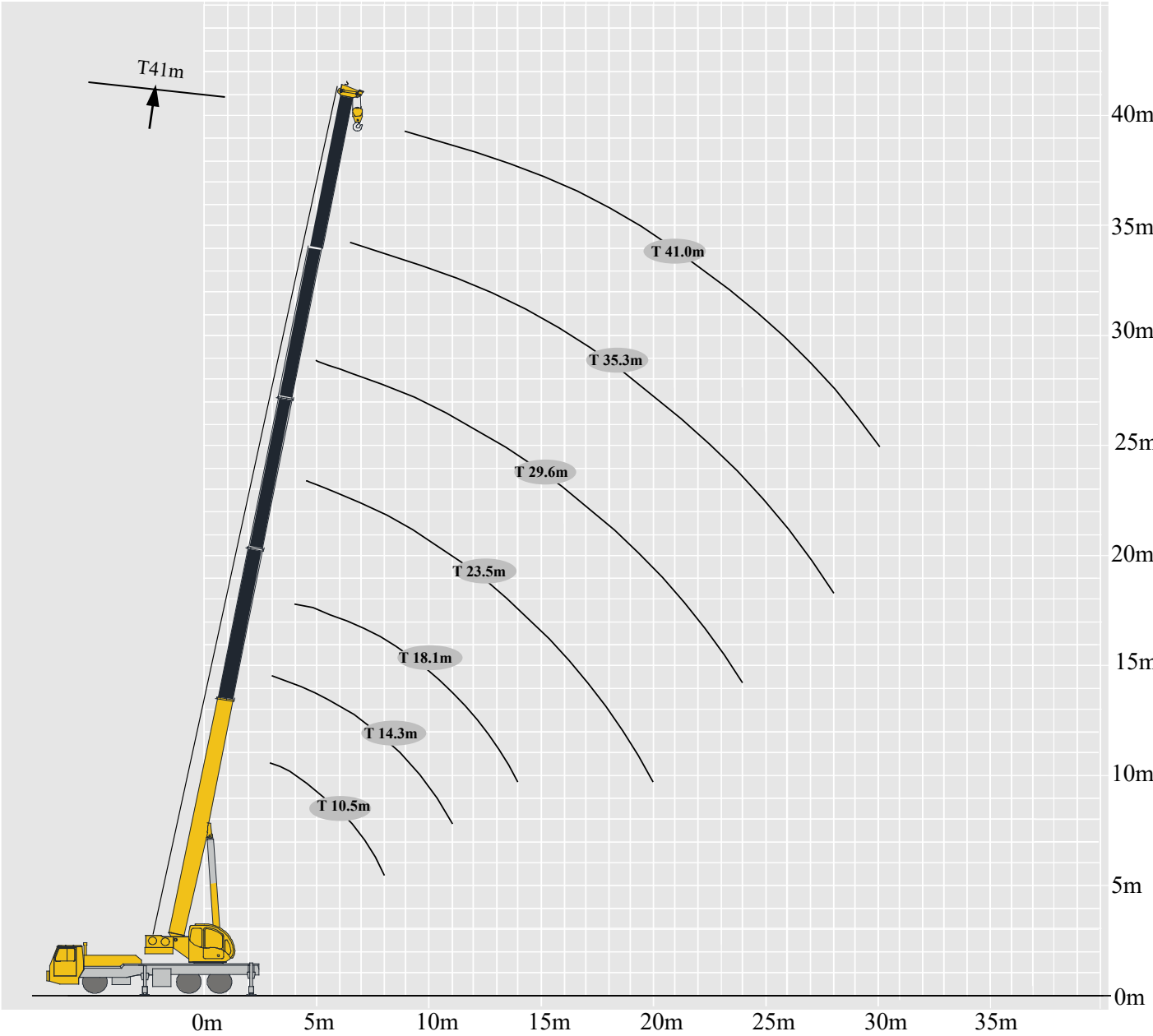


主臂
Telescopic boom

T: 10.5~41m


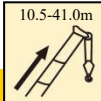
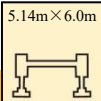

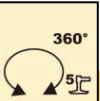

副臂
Jib

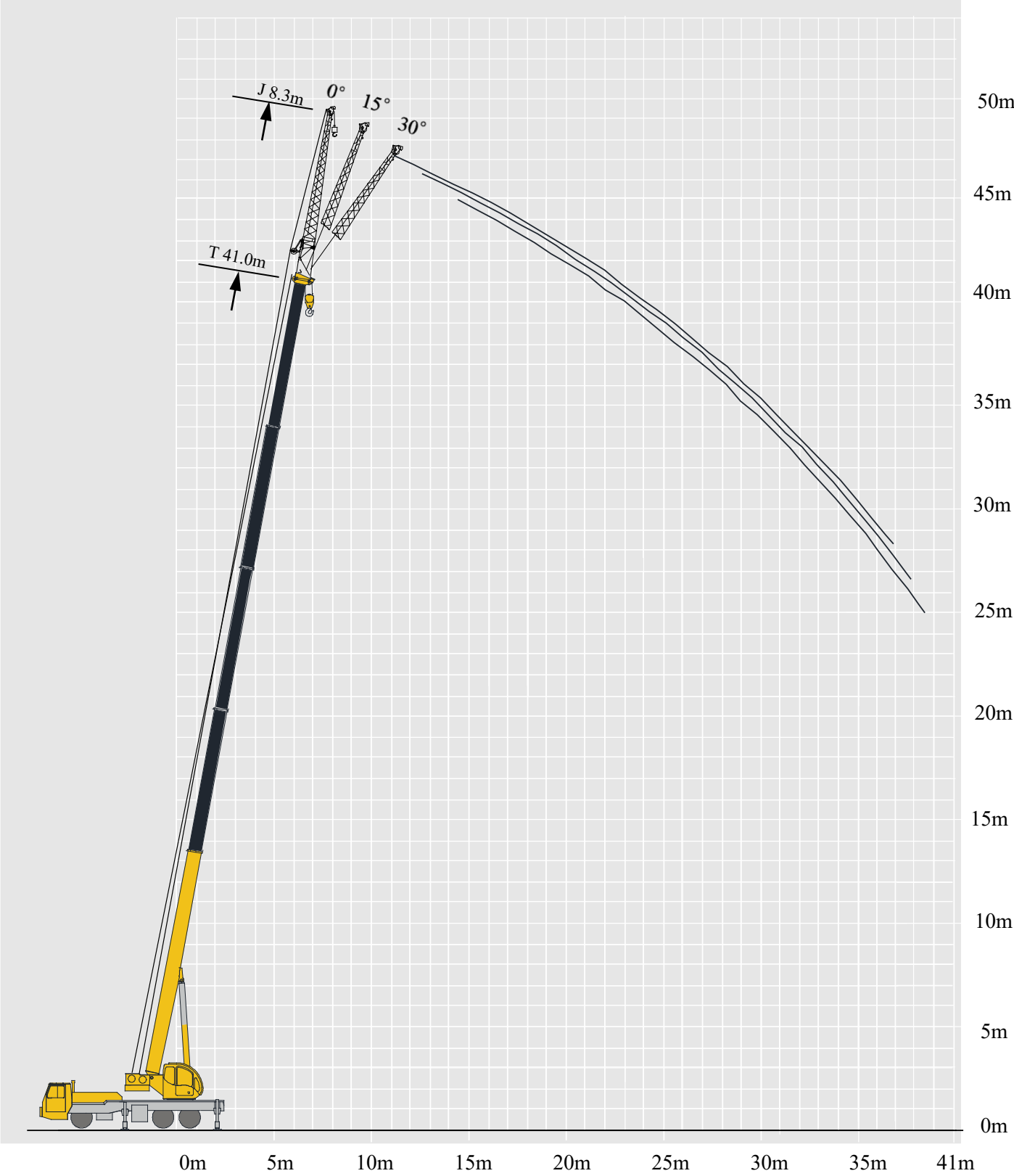
T: 10.5~41m
J: 8.3 m



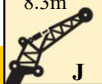





起重性能表
Lifting capacities

T 10.5~41.0m

<div><div></div><div><div>10.5-41.0m</div></div><div><div>5.14m×6.0m</div></div><div></div><div><div>360°</div></div><div></div></div>								
	10.5m	14.3m	18.1m	23.8m	29.6m	35.3m	41.0m	
3	25000	25000						3
3.5	25000	25000						3.5
4	24500	24600	19500					4
4.5	22800	22600	19500	16600				4.5
5	20500	21200	18600	16500	13000			5
5.5	18500	19200	17300	15500	12800			5.5
6	16800	17300	16000	14500	12800			6
6.5	15600	15800	14800	13500	12500	9000		6.5
7	14500	14500	14200	12900	11500	9000		7
8	11900	11400	11100	11300	11000	8900	6600	8
9		9200	8900	9800	10100	8200	6500	9
10		7600	7300	8100	8600	7600	6200	10
11		6400	6000	6800	7300	7000	5800	11
12			5000	5800	6200	6500	5600	12
13			4200	5000	5400	5700	5200	13
14			3500	4300	4700	5000	4900	14
15				3700	4100	4400	4400	15
16				3200	3600	3900	4050	16
18				2400	2800	3000	3250	18
20				1800	2100	2400	2600	20
22					1600	1900	2100	22
24					1200	1400	1650	24
26						1100	1300	26
28						850	1000	28
30							750	30
32							550	32



<div><div>↔m</div><div><div>41.0m</div><div>T</div><div></div></div><div><div>8.3m</div><div>J</div><div></div></div><div><div>5.14m×6.0m</div><div></div></div><div><div>360°</div><div></div></div><div>↔m</div></div>				
	0°	15°	30°	
78	2800	2500	1900	78
75	2800	2400	1750	75
72	2750	2200	1700	72
70	2650	2100	1600	70
65	2100	1800	1500	65
60	1450	1350	1400	60
55	950	900	900	55
50	600	550	500	50
45	350	300	300	45

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	12780×2500×3400
	轴距 Wheel base		mm	4425+1350
	轮距（前/后） Track（Front/ Rear）		mm	2059/1834
	前悬/后悬 Front/ Rear overhang		mm	2375/2145
	前伸/后伸 Front/ Rear extension		mm	1895/590
重量参数 Weight	最大允许总质量 Total weight in travel		kg	32500
	轴荷 Axle load	一轴 1st axle	kg	7300
		二轴 2nd axle	kg	12600
		三轴 3rd axle	kg	12600
动力参数 Power	发动机型号 Engine model		——	MC07H.32-50 SC9DF300.1Q5
	额定功率/转速 Engine rated power/rpm		kW/(r/min)	235/2200 221/2200
	最大净功率/转速 Max. net power/rpm		kW/(r/min)	232/2200 219/2200
	最大输出扭矩/转速 Engine rated torque/rpm		N.m/(r/min)	1250/1200-1600 1250/1400
行驶参数 Travel	最高车速 Max. travel speed		km/h	≥80
	最低稳定车速 Min. travel speed		km/h	2.5 ~ 3
	最小转弯直径 Min. turning diameter		m	≤22
	臂头最小转弯直径 Min. turning diameter at boom tip		m	≤26.8
	最小离地间隙 Min. ground clearance		mm	250
	接近角 Approach angle		°	10
	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		%	≥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		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	3360	
		副卷处 Auxiliary winch	mm	—	
	最大起重力矩 Max. load moment	基本臂 Base boom	kN.m	1005	
		最长主臂 Fully-extended boom	kN.m	672	
		最长主臂+副臂 Fully-extended boom + Jib	kN.m	465	
	支腿跨距 Outrigger span	纵向 Longitudinal	m	5.14	
		横向 Lateral	m	6.0	
	起升高度 Hoist height	基本臂 Base boom	m	9.8	
		最长主臂 Fully-extended boom	m	40.1	
		最长主臂+副臂 Fully-extended boom + Jib	m	48.5	
	起重臂长度 Boom length	基本臂 Base boom	m	10.5	
		最长主臂 Fully-extended boom	m	41.0	
		最长主臂+副臂 Fully-extended boom + Jib	m	49.3	
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	≤38	
	起重臂全伸时间 Boom fully extended time		s	≤93	
	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	≤30
			放 Extending	s	≤35
		垂直支腿 Outrigger jack	收 Retracting	s	≤35
			放 Extending	s	≤40
	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	≥125
		副起升机构 Auxiliary winch		m/min	≥125
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	