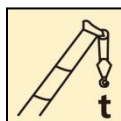


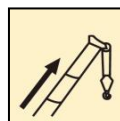
XCT100_S 汽车起重机 / Truck Crane

技术规格书

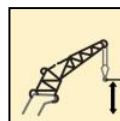
Technical specifications



100 t



70 m



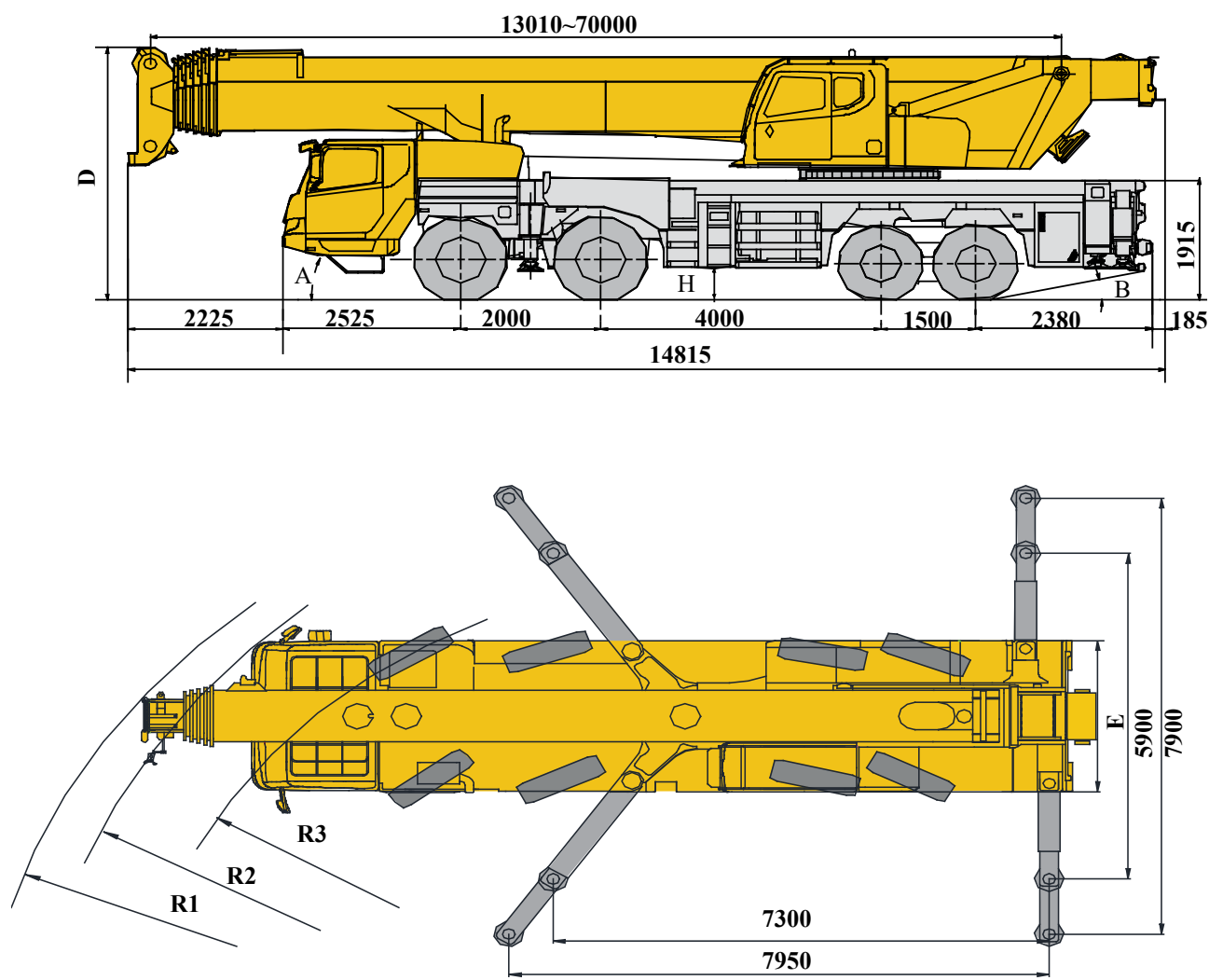
95m



2022年5月 第1版
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尺寸参数
Dimensions



	A	B	D	E	R1	R2	R3	H
385/95R25	20°	13°	3980	2760	12300	11400	10000	367

技术规格

Technical specifications



Chassis

Frame	Designed and manufactured by XCMG, it is made of high strength steel with fully covered walking surface and anti-torsion box-typed structure.
Outrigger	Four outriggers; front two-stage outrigger beams are swung, and rear outrigger beams are extended. Outrigger beams and jacks are hydraulically controlled. There is an outrigger control station located at each side of the chassis, and there is a level gauge, an illuminator and speed buttons on each control station. There is a check valve fitted in each outrigger cylinder, and a double-way hydraulic valve fitted in each jack cylinder. Float dimension: 360mm×450mm Reaction force of outrigger at max. lifting load: 785kN
Engine	WP12.430E50, in-line, 6-cylinder, water cooled, electric control diesel engine, made by WEICHAI, with rated power of 316kW/1900rpm and max. torque of 2060Nm/1000-1400rpm, compliant to Euro V emission standard. Fuel tank capacity: 470 L AdBlue tank volume: 50L
Gearbox	Mechanical transmission, made by Shaanxi Fast Gear Co., Ltd., manual flexible shaft control, 12-forward speed and 2-reverse speed with a synchronizer.
Axles	High strength axles are made by famous manufacturers. 1st and 2nd axles are for steering, and 3rd and 4th axles are for steering and driving.

Leaf springs are adopted for front suspensions; double trailing arm type suspensions are adopted for rear suspensions.

8 tires and 1 spare tire, each axle is equipped with single tire, manufactured by Double Coin.
Tire specifications:385/95R25

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, engine retarder brake.

All-axle steering; axles 1 and 2 are mechanically steered + hydraulic power assistance, axles 3 and 4 are steered through cylinder control. It is suitable for various demands of working conditions and several steering modes can be realized.

New full-dimension enclosed cab is ergonomically designed for safe and comfortable operation. It is designed to be leakproof, anti-corrosive and shockproof. It is equipped with a windshield offering outstanding visibility, electrical adjustable rear mirrors, electric control washer, electronic lifters of doors and windows, air heater with defrosting function, heater & air conditioner, radio player and new material mat, etc. A fire extinguisher of 6 kg is available. Heater and air conditioner are standard.

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, made of high strength steel.
Hydraulic system	Electric proportional variable pump is used for lifting, luffing and telescoping operations. A closed pump is used to drive slewing operation. The proportional solenoid directional control valve; air-cooled hydraulic oil radiator. Effective volume of hydraulic oil tank: 627 L
Operating mode	The electric proportional control system is equipped with two levers at left and right sides controlling the main movements of the crane, and stepless slewing speed regulation is available.
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 balanced valve and a grooved drum equipped.
Auxiliary 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 balanced valve and a grooved drum equipped.
Slewing system	Single-row, four-point contact-ball external slewing ring, driven by a a hydraulic motor through the planetary gear reducer, with constant-closed brake equipped, may continuously slew 360° . Power control and free swing function as well as stepless speed regulation are available.
Luffing system	Single luffing cylinder and balance valve with the load compensation function are included. Balance valve-controlled boom gravity combined with power for lowering boom is used for boom luffing down.

Operator's cab	Steel cab with a full-view windshield, safety glass, sliding door, adjustable seat with electric heating function; it can tilt backward about 20° ; double-layer sun shield is adopted for roof window; sun shield is also equipped at the windshield and rear window; wipers, roof guardrails, pull-out step, LMI, human-machine interactive control panel, electric controlled armrest, engine accelerator pedal, engine start switch, etc. are also available. Air conditioning and heater are standard. A fire extinguisher of 2 kg is available.
S a f e t y devices	Hydraulic balance valve, hydraulic relief valve, double-way hydraulic valve, LMI, lowering limiter, anti-two block, anemometer, winch monitoring device.
Combined counterweight	Counterweight A: 9t; counterweight B: 9t; counterweight C: 3.5 t; counterweight D: 4t; counterweight E: 2t, counterweight F: 5.25t×2t;
Hook block	60 t hook 7 t hook
Boom	7-section boom with U cross-section, welding structure, with single-plate boom head and compact boom tail. Single-cylinder pinning telescoping system. Boom length: 13m ~ 70m.
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 7 t.

车型与选装件

Version and optional equipments

车型 Version	功能描述 Function description	选择 Selection
Standard	Steering type is 8x8x4. With a seven-section boom of 70 m	
Note: only standard version is available for this model.		

	可选装件 Optional	选择 Selection
吊钩 Hook block	100t吨钩 100t hook block 80t吨钩 80t hook block 50t吨钩 50t hook block	
旋转报警灯（底盘） Beacon lamp (chassis)		
高压电报警 High voltage warning		
应急下放 Emergency lowering hook		
低温报警 Low ambient temperature warning		
虚拟墙（电刷总成） Virtual wall (electric brush assembly)		
2.9m独立臂头 2.9 m independent boom head		
2*7m主臂加长节 2*7m boom extension		
固定副臂(2节) Fixed jib (two sections)		
副起升机构 Auxiliary winch		
注释：可选装件为通用可选。		
Notes:		
The options are available.		

重量
Weight



车桥 Axle	1	2	3	4	总重量 Total weight
t	12	12	12	12	48 ¹⁾
t	15.5	15.5	17.5	17.5	66 ²⁾

1) Hook block, jib, single top, counterweight are excluded from superstructure. Spare tire and spare tire bracket are excluded from chassis. Steer & Driving type: 8×8×4; Tire specification: 385/95R25;

2) Short-distance job site transfer, Max. travel speed is 20 km/h. 50 t hook block, jib, auxiliary winch, 15 t counterweight, spare tire and its bracket are included in superstructure. Steer & Driving type: 8×8×4; Tire specification: 385/95R25;



吊钩 Hook	倍率 No. of lines	吊钩重量 Weight kg	吊钩尺寸 Dimensions mm
100t	12	1010	1841×858×610
80t	12	700	1735×600×529
50t	7	515	1586×560×380
7t	1	256	731×426×426
60t	7	580	1500×610×590

作业速度
Working speeds



385/95R25



1 ~ 80



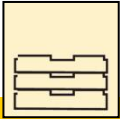
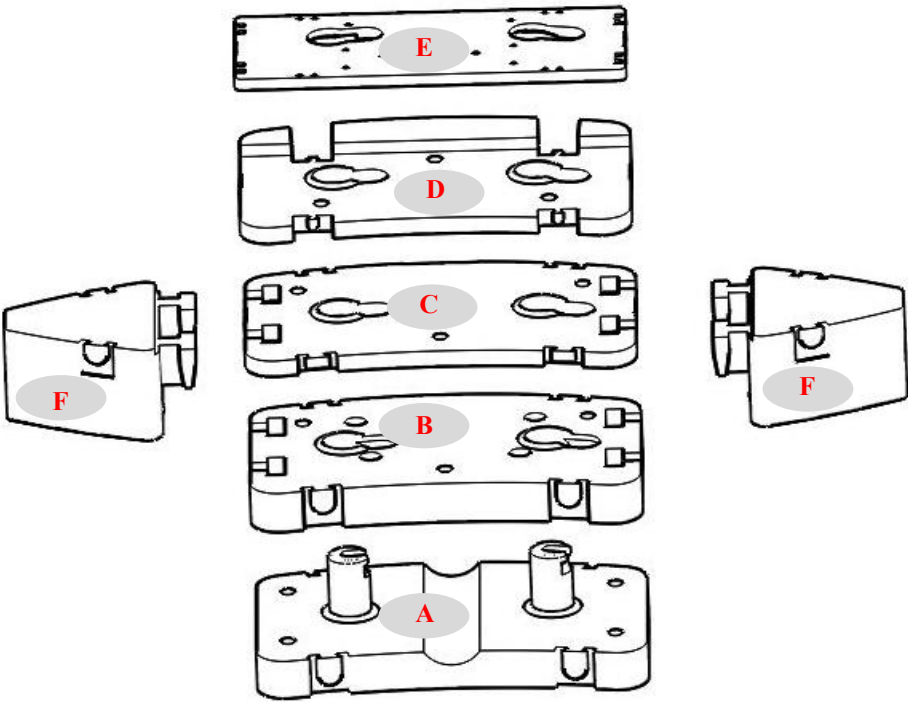
48%



作业机构 Operation mechanisms	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
	0-130 m/min, 单绳, 第四层 m/min, single line, 4th layer	82.3 kN	20 mm/290 m
	0-90 m/min, 单绳, 第四层 m/min, single line, 4th layer	68.6 kN	20 mm/205m
	0-1.8 r/min		
	从-1°抬起至81°约65 s Approx. 65s for boom elevation from -1° to 81°		
	从13m伸出至70 m约590 s Approx. 590s for boom extension from 13 m to 70 m		

平衡重

Counterweight

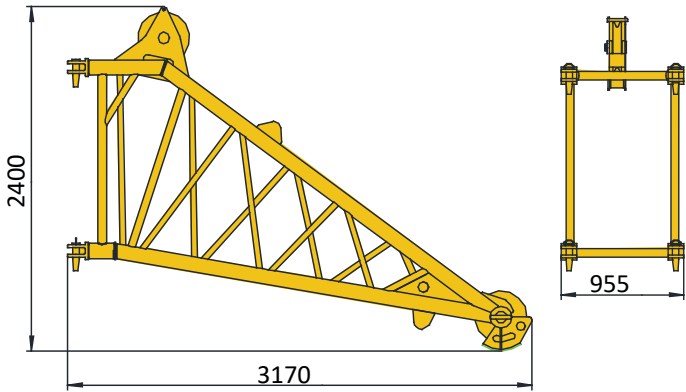


平衡重 Counterweight	A	B	C	D	E	F
尺寸 (长×宽×高) mm Size (L×W×H) mm	2740×1720 ×815	2740×1720 ×358	2740×1720 ×161	2740×1720 ×230	2740×1132 ×93	1335×1311 ×766
重量 t Weight (t)	9	9	3.5	4	2	5.25

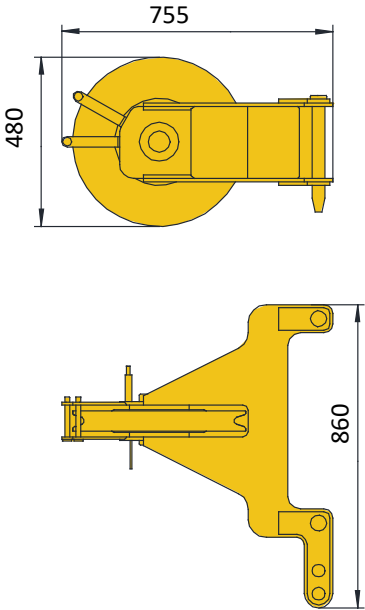
工况模式 Working mode	38t	27.5t	24t	15t	6t	2	0
组合形式 Combinations	A+B+C+D +E+2F	A+B+C+D +E+F	A+B+D+E	A+D+E	D+E	E	0

运输部件尺寸
Transportation components dimension

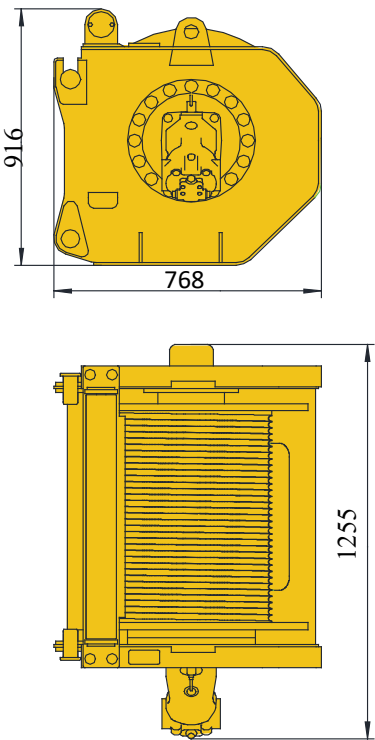
独立臂头 440 kg
Independent jib head 440 kg



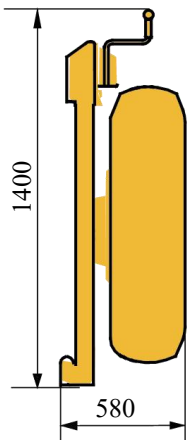
臂端单滑轮 95 kg
Single top 95 kg



副起升机构(含钢丝绳) 1060 kg
Auxiliary winch (wire rope included) 1060 kg

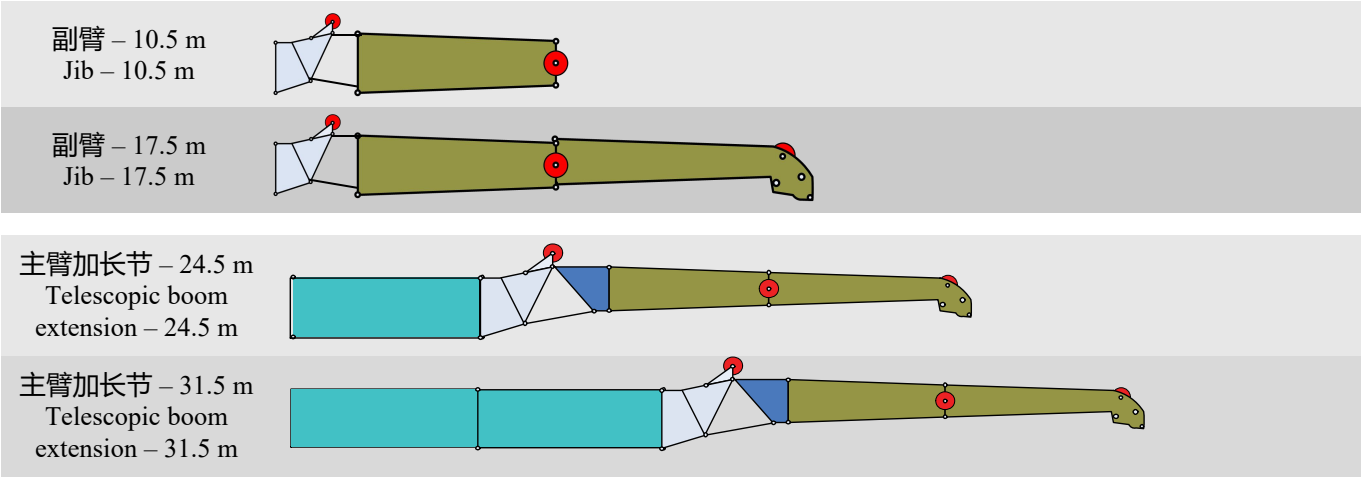


备胎 (含支架) 272+44 kg
Spare wheel(bracket included) 272+44 kg



臂架组合方案

Boom / Jib combinations



部件 Component	结构形式 Structure	尺寸 (长×宽×高) mm Size (L×W×H) (mm)	重量 kg Weight (kg)
连接架 Connection bracket		2035×870×1573	235
主臂加长节 Telescopic boom extension		870×1500×7090	466
一节副臂总成 First jib section assembly		9923×1106×790	578
二节副臂总成 Second jib section assembly		6908×608×446	265

臂架组合方案

Boom / Jib combinations



主臂

Telescopic boom

T: 13.0~70 m

副臂

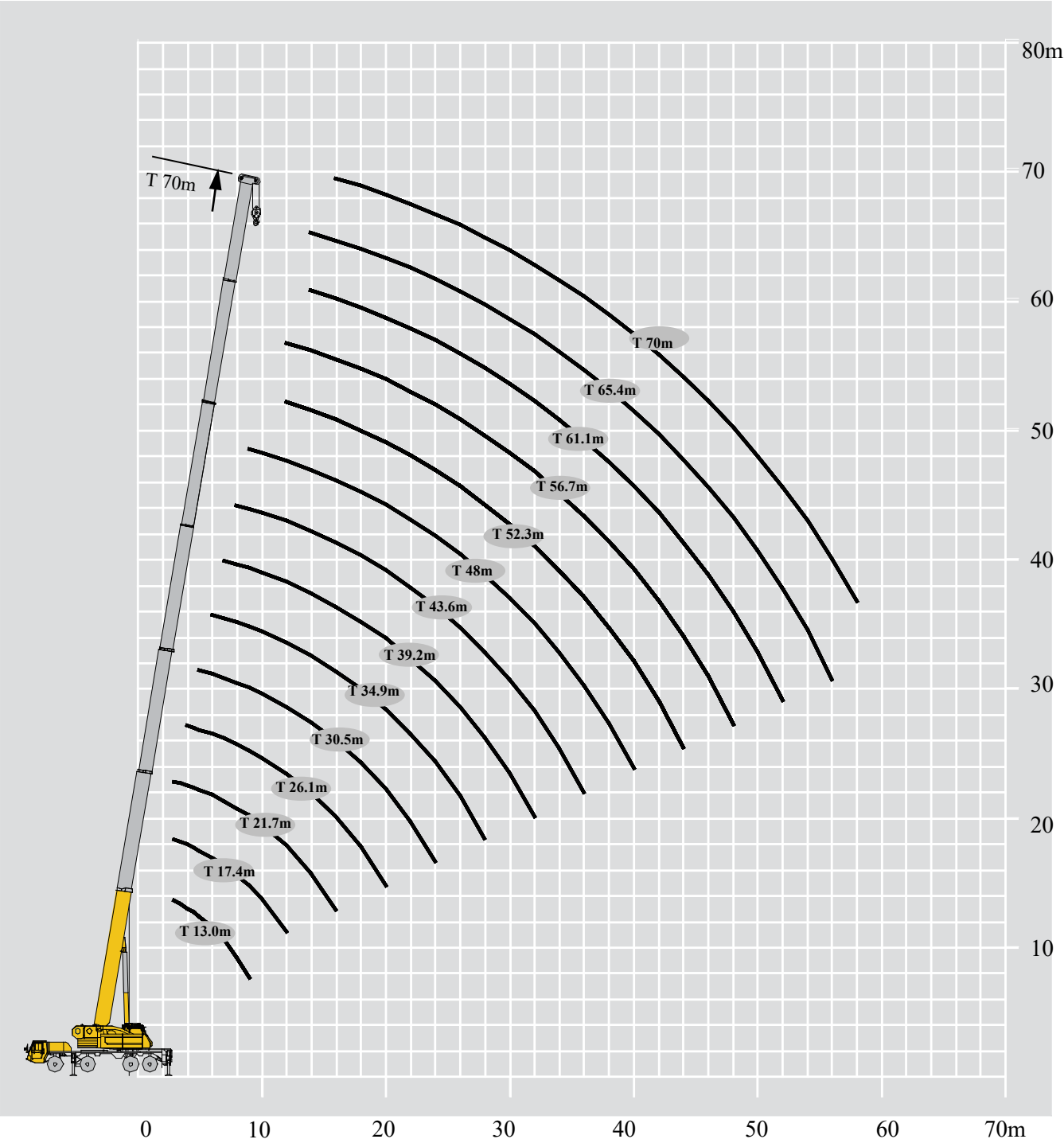
Jib

T: 56.7~65.4 m
J: 10.5~17.5 m

主臂加长节

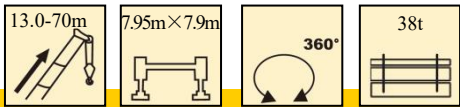
Telescopic boom extension

T: 56.7~65.4 m
I: 14 m
J: 10.5~17.5 m



起重性能表
Lifting capacities

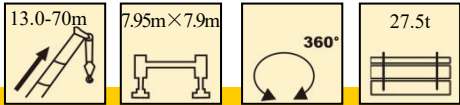
T 13.0~70m



	13.0m	17.4m	21.7m	26.1m	30.5m	34.9m	39.2m	43.6m	48m	52.3m	56.7m	61.1m	65.4m	70m	
3	100.0	85.0	80.0												3
3.5	90.0	82.0	78.0												3.5
4	88.0	79.0	75.0	70.0											4
4.5	80.0	77.0	72.0	68.0											4.5
5	74.0	72.0	68.0	66.0	62.0										5
6	64.0	63.0	63.0	62.0	60.0	49.0									6
7	54.0	54.0	54.0	54.0	54.5	49.0	48.0								7
8	47.0	47.0	48.0	48.0	48.0	48.0	46.0	34.7							8
9	40.0	42.0	42.0	42.0	42.5	42.5	42.0	32.6	28.1						9
10		38.0	38.0	38.0	38.0	38.0	38.0	30.6	26.7						10
12		31.0	31.0	31.0	31.0	32.0	32.0	27.1	23.8	20.9	17.1				12
14			27.0	27.0	27.0	27.0	27.0	24.0	21.5	19.0	16.7	13.4	10.7		14
16			23.0	23.5	23.0	23.0	22.9	21.4	19.4	17.3	15.5	13.4	10.7	7.8	16
18				20.2	20.2	19.6	19.2	18.5	17.5	15.7	14.3	12.7	10.7	7.8	18
20				17.2	17.2	16.6	17.0	15.8	15.3	14.3	13.0	11.7	10.5	7.8	20
22					14.8	14.7	14.9	13.5	13.6	13.0	11.7	10.5	9.8	7.8	22
24					12.9	13.3	13.0	11.6	12.2	11.3	10.7	9.6	8.8	7.8	24
26						11.9	11.4	10.9	11.1	10.3	9.6	8.7	8.0	7.2	26
28						10.5	10.1	10.1	9.8	9.0	8.7	7.9	7.3	6.5	28
30							9.0	9.3	8.7	8.4	8.0	7.2	6.7	6.0	30
32							8.2	8.3	7.7	7.8	7.4	6.7	6.2	5.6	32
34								7.5	7.1	7.0	6.9	6.2	5.8	5.1	34
36								6.7	6.7	6.3	6.3	5.7	5.4	4.7	36
38									6.2	5.6	5.7	5.3	5.0	4.3	38
40									5.6	5.1	5.1	4.9	4.5	4.0	40
42										4.7	4.6	4.4	3.9	3.7	42
44										4.5	4.1	3.9	3.6	3.4	44
46											3.7	3.5	3.1	3.1	46
48											3.3	3.1	2.8	2.8	48
50												2.8	2.4	2.4	50
52												2.5	2.1	2.1	52
54													1.8	1.8	54
56													1.5	1.5	56
58														1.3	58

起重性能表
Lifting capacities

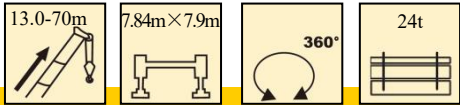
T 13.0~70m



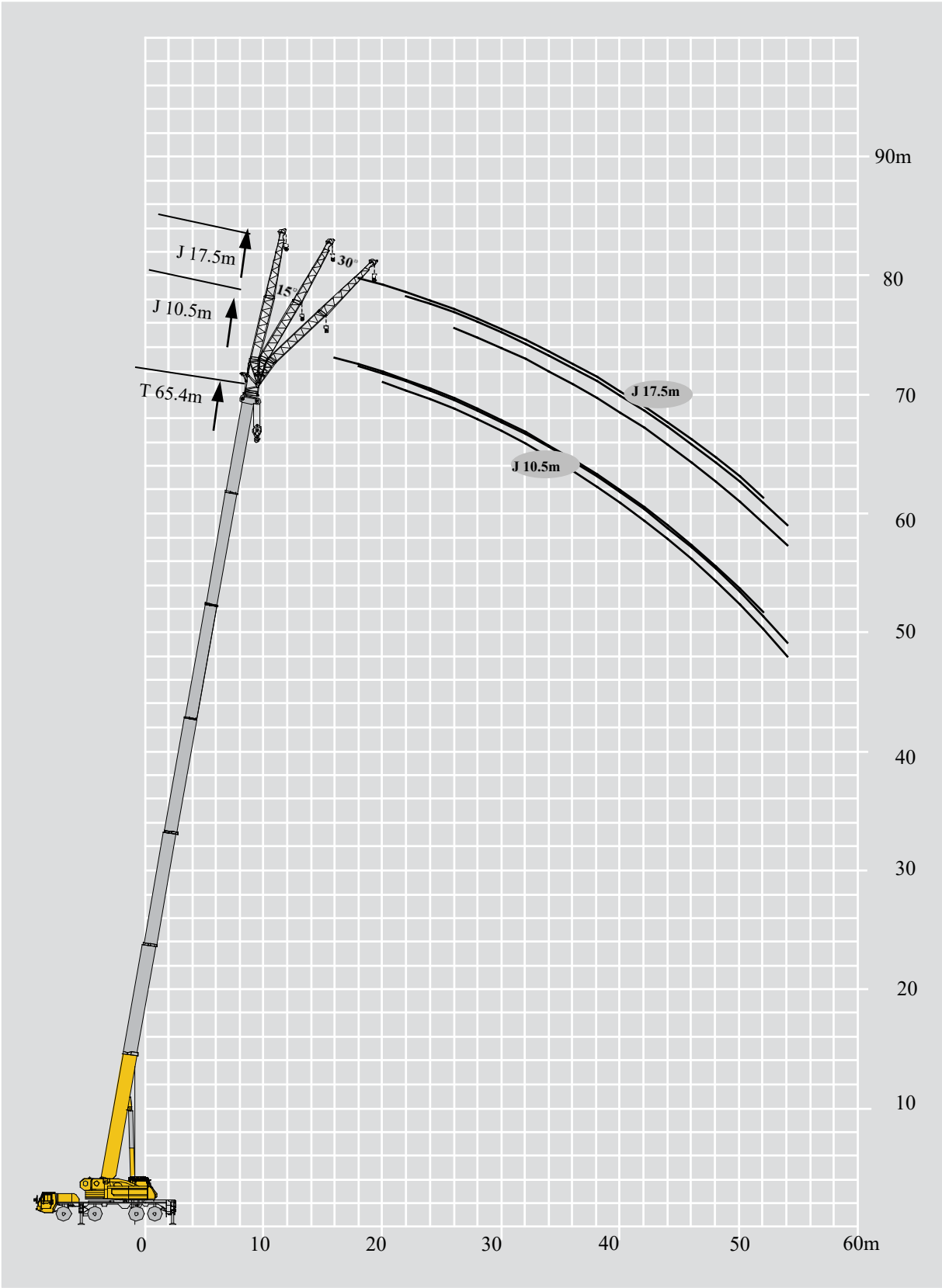
	13.0m	17.4m	21.7m	26.1m	30.5m	34.9m	39.2m	43.6m	48m	52.3m	56.7m	61.1m	65.4m	70m	
3	100.0	85.0	80.0												3
3.5	90.0	82.0	78.0												3.5
4	88.0	79.0	75.0	70.0											4
4.5	80.0	77.0	72.0	68.0											4.5
5	74.0	72.0	68.0	66.0	62.0										5
6	64.0	63.0	63.0	62.0	60.0	49.0									6
7	54.0	54.0	54.0	54.0	54.5	49.0	48.0								7
8	47.0	47.0	48.0	48.0	48.0	48.0	46.0	34.7							8
9	40.0	42.0	42.0	42.0	42.1	42.5	42.0	32.6	28.1						9
10		35.4	36.5	36.0	36.0	37.0	36.5	30.6	26.7						10
12		26.6	27.5	27.9	27.8	27.5	26.8	26.2	23.8	20.9	17.1				12
14			21.5	21.8	21.7	21.3	22.0	20.6	20.1	19.0	16.7	13.4	10.7		14
16			17.4	17.6	17.6	18.1	17.7	16.5	16.6	16.1	15.5	13.4	10.7	7.8	16
18				14.6	15.2	15.0	14.8	14.7	14.5	13.8	13.4	12.7	10.7	7.8	18
20				12.8	12.9	12.8	12.6	12.7	12.2	11.8	11.7	11.3	10.5	7.8	20
22					11.1	11.0	11.3	10.9	10.7	10.5	10.4	10.2	9.8	7.8	22
24					9.6	9.8	9.7	9.5	9.5	9.2	9.0	8.8	8.5	7.8	24
26						8.7	8.6	8.6	8.3	8.2	7.8	7.7	7.3	7.2	26
28						7.7	7.6	7.6	7.3	7.2	6.8	6.7	6.3	6.3	28
30							6.7	6.8	6.4	6.4	5.9	5.9	5.5	5.5	30
32							5.9	6.0	5.7	5.7	5.2	5.0	4.8	4.8	32
34								5.4	5.0	5.0	4.6	4.4	4.1	4.1	34
36								4.8	4.5	4.4	4.1	3.9	3.5	3.6	36
38									4.0	4.0	3.6	3.4	3.1	3.1	38
40									3.6	3.5	3.2	3.0	2.6	2.6	40
42										3.1	2.7	2.6	2.3	2.3	42
44										2.7	2.3	2.3	1.9	1.9	44
46											2.1	1.9	1.5	1.6	46
48											1.8	1.6	1.3	1.3	48

起重性能表
Lifting capacities

T 13.0~70m

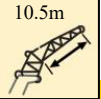
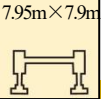
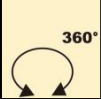


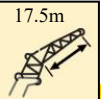
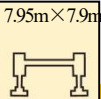
	13.0	17.4	21.7	26.1	30.5	34.9	39.2	43.6	48	52.3	56.7	61.1	65.4	70.0	
3	100.0	85.0	80.0												3
3.5	90.0	82.0	78.0												3.5
4	88.0	79.0	75.0	70.0											4
4.5	80.0	77.0	72.0	68.0											4.5
5	74.0	72.0	68.0	66.0	62.0										5
6	64.0	63.0	63.0	62.0	60.0	49.0									6
7	54.0	54.0	54.0	54.0	54.5	49.0	48.0								7
8	47.0	47.0	48.0	48.0	48.0	48.0	46.0	34.7							8
9	38.6	39.7	41.0	40.2	40.0	41.0	41.0	32.6	28.1						9
10		33.3	34.8	35.0	35.0	34.7	33.9	30.6	26.7						10
12		24.7	25.7	25.9	25.8	25.5	24.8	24.7	23.8	20.9	17.1				12
14			19.9	20.2	20.2	20.6	20.3	19.0	19.1	18.6	16.7	13.4	10.7		14
16			16.0	16.3	16.9	16.7	16.4	16.1	16.2	15.4	15.0	13.4	10.7	7.8	16
18				14.0	14.0	14.0	13.8	13.9	13.3	12.8	12.9	12.5	10.7	7.8	18
20				11.8	11.9	11.8	12.1	11.7	11.6	11.3	11.3	11.0	10.5	7.8	20
22					10.2	10.4	10.4	10.1	10.1	10.0	9.5	9.4	9.0	7.8	22
24					8.8	9.1	8.9	9.0	8.6	8.6	8.2	8.0	7.7	7.7	24
26						7.9	7.8	7.8	7.6	7.5	7.1	6.9	6.6	6.6	26
28						7.0	6.8	6.9	6.6	6.6	6.1	5.9	5.6	5.7	28
30							6.0	6.1	5.9	5.8	5.3	5.2	4.9	4.9	30
32							5.4	5.4	5.1	5.0	4.7	4.5	4.1	4.1	32
34								4.8	4.5	4.4	4.1	3.9	3.5	3.6	34
36								4.3	4.0	4.0	3.5	3.4	3.1	3.1	36
38									3.5	3.4	3.1	2.9	2.6	2.6	38
40									3.1	3.1	2.7	2.5	2.2	2.2	40
42										2.7	2.3	2.2	1.8	1.8	42
44										2.3	2.0	1.8	1.4	1.5	44
46											1.6	1.5	1.2	1.2	46
48											1.4	1.3			48

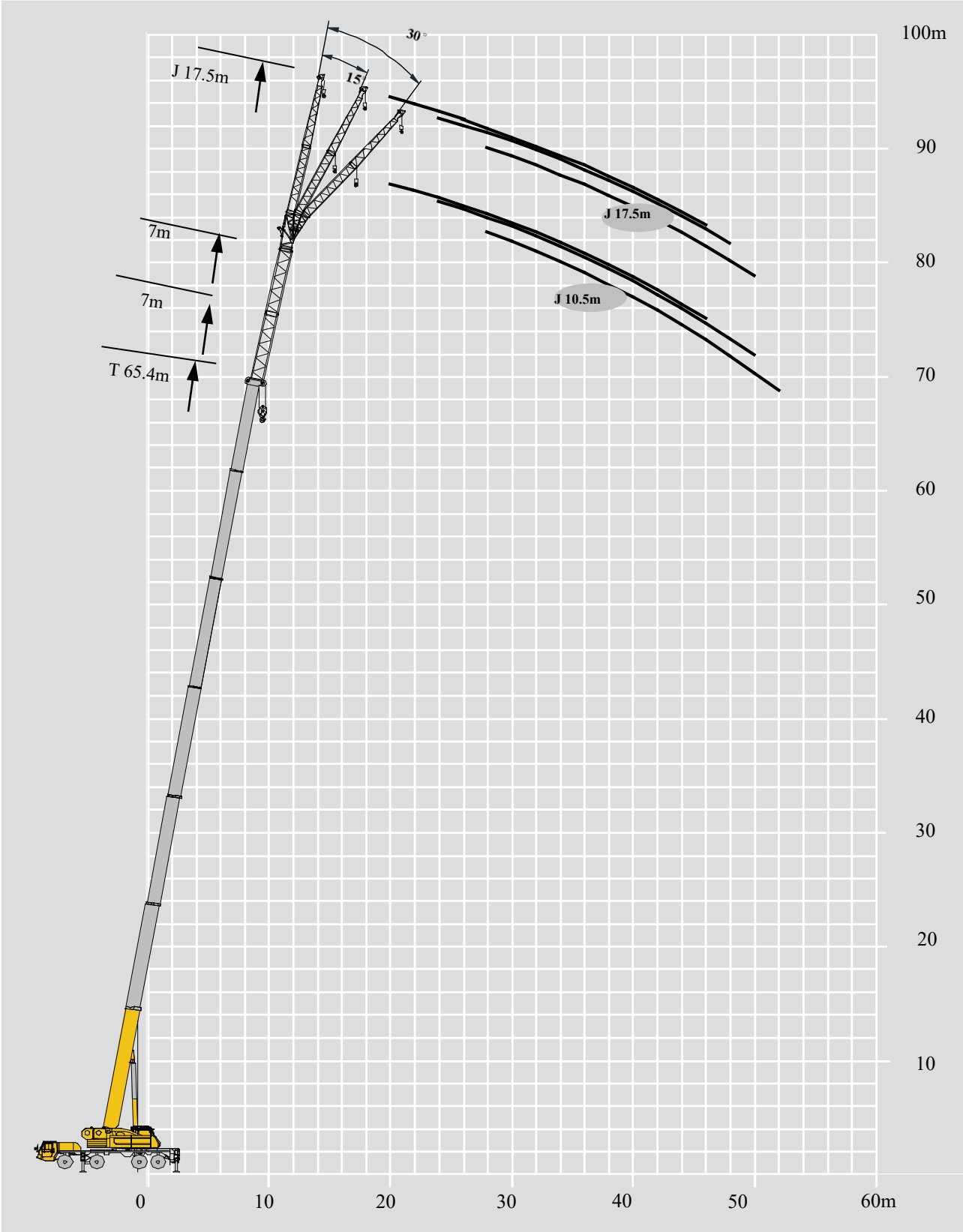


起重性能表
Lifting capacities

J 10.5m/17.5 m

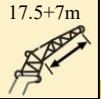
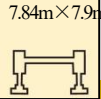
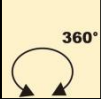
56.7-65.4m 10.5m 7.95m×7.9m 360° 38t										
	56.7m			61.1m			65.4m			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
14	6.7									14
16	6.7	6.6		6.7			5.4			16
18	6.7	6.3	5.0	6.7	6.0		5.4	5.4		18
20	6.7	6.2	4.8	6.5	5.8	4.6	5.4	5.4	4.4	20
22	6.7	5.9	4.8	6.3	5.7	4.5	5.4	5.4	4.3	22
24	6.5	5.8	4.6	6.1	5.5	4.5	5.4	5.2	4.3	24
26	6.3	5.6	4.6	5.7	5.4	4.4	5.4	5.0	4.2	26
28	5.9	5.4	4.3	5.2	5.2	4.3	4.9	4.6	4.1	28
30	5.4	5.3	4.2	4.7	4.7	4.2	4.3	4.3	4.1	30
32	4.9	4.9	4.1	4.2	4.2	4.1	3.8	3.8	3.8	32
34	4.4	4.3	4.1	3.8	3.8	3.8	3.5	3.6	3.5	34
36	3.8	3.8	3.9	3.4	3.4	3.5	3.1	3.2	3.2	36
38	3.5	3.5	3.6	3.0	3.1	3.2	2.8	2.9	2.9	38
40	3.0	3.3	3.1	2.8	2.9	2.9	2.5	2.7	2.6	40
42	2.7	3.0	2.9	2.5	2.6	2.7	2.3	2.4	2.3	42
44	2.5	2.7	2.6	2.2	2.3	2.4	2.0	2.1	2.1	44
46	2.2	2.5	2.3	2.0	2.1	2.1	1.8	1.8	1.9	46
48	2.0	2.2	2.1	1.7	1.8	1.8	1.6	1.7	1.6	48
50	1.8	1.9	1.9	1.5	1.5	1.6	1.4	1.4	1.5	50
52	1.6	1.6	1.6	1.3	1.4	1.4	1.2	1.3	1.3	52
54	1.4	1.4	1.5	1.2	1.2	1.3		1.1	1.1	54
56	1.2	1.2	1.3							56
组合 Code	222211			222221			222222			组合 Code

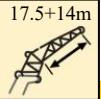
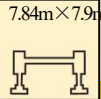
56.7-65.4m 17.5m 7.95m×7.9m 360° 38t										
	56.7m			61.1m			65.4m			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
14										14
16	4.5									16
18	4.4			4.1			3.8			18
20	4.2	3.5		4.0			3.7			20
22	4.1	3.4		3.9	3.2		3.6	3.1		22
24	4.0	3.4	2.3	3.8	3.2	2.3	3.5	3.0		24
26	3.9	3.3	2.3	3.7	3.1	2.3	3.4	3.0	2.2	26
28	3.8	3.2	2.2	3.6	3.1	2.3	3.3	2.9	2.1	28
30	3.6	3.0	2.1	3.5	3.1	2.2	3.3	2.9	2.1	30
32	3.5	3.0	2.1	3.3	2.9	2.1	3.2	2.8	2.1	32
34	3.4	2.9	2.0	3.3	2.8	2.0	3.1	2.8	2.0	34
36	3.3	2.9	2.0	3.2	2.8	2.0	3.0	2.8	2.0	36
38	3.2	2.8	1.9	3.0	2.8	1.9	2.7	2.7	2.0	38
40	3.1	2.8	1.9	2.8	2.7	1.9	2.5	2.6	1.9	40
42	2.8	2.7	1.9	2.5	2.6	1.9	2.2	2.3	1.9	42
44	2.5	2.6	1.8	2.2	2.3	1.8	1.9	2.0	1.9	44
46	2.2	2.4	1.8	1.9	2.0	1.8	1.8	1.9	1.8	46
48	2.0	2.1	1.8	1.7	1.8	1.8	1.5	1.6	1.7	48
50	1.8	1.9	1.7	1.5	1.6	1.6	1.4	1.5	1.5	50
52	1.6	1.7	1.6	1.3	1.4	1.5	1.2	1.3	1.4	52
54	1.5	1.5	1.6	1.2	1.3	1.3		1.1	1.2	54
56	1.3	1.4	1.4		1.1	1.2				56
58	1.1	1.2	1.3							58
组合 Code	222211			222221			222222			组合 Code



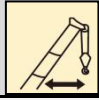
起重性能表
Lifting capacities

I 7/14 m

56.7-65.4m 17.5+7m 7.84m×7.9m 360° 38t										
56.7+7m			61.1+7m			65.4+7m				
17.5m			17.5m			17.5m				
0°	15°	30°	0°	15°	30°	0°	15°	30°		
14										14
16	4.2									16
18	4.1		3.7							18
20	4.1	3.4	3.7			2.8				20
22	4.0	3.3	3.7	3.2		2.8				22
24	3.9	3.2	2.4	3.6	3.1	2.8	2.8			24
26	3.8	3.2	2.3	3.6	3.0	2.2	2.8	2.8		26
28	3.7	3.1	2.3	3.6	2.9	2.1	2.8	2.8	2.1	28
30	3.6	3.1	2.2	3.4	2.9	2.1	2.8	2.6	2.1	30
32	3.6	3.0	2.1	3.3	2.8	2.1	2.7	2.6	2.0	32
34	3.5	2.9	2.1	3.1	2.8	2.0	2.4	2.6	2.0	34
36	3.4	2.9	2.0	2.9	2.7	2.0	2.2	2.6	2.0	36
38	3.0	2.8	2.0	2.6	2.7	2.0	1.9	2.4	2.0	38
40	2.7	2.8	1.9	2.3	2.3	1.9	1.8	2.1	1.9	40
42	2.5	2.5	1.9	2.1	2.1	1.9	1.5	1.9	1.9	42
44	2.2	2.3	1.8	1.8	1.9	1.9	1.4	1.7	1.8	44
46	1.9	2.0	1.8	1.5	1.6	1.8	1.1	1.5	1.6	46
48	1.7	1.7	1.8	1.3	1.5	1.5		1.3	1.4	48
50	1.5	1.6	1.7	1.2	1.2	1.4		1.1	1.2	50
52	1.3	1.4	1.5		1.1	1.2			1.1	52
54	1.1	1.2	1.3							54
56		1.1	1.1							56
58										58
组合 Code	222211			222221			222222			组合 Code

56.7-65.4m 17.5+14m 7.84m×7.9m 360° 38t										
56.7+14m			61.1+14m			65.4+14m				
17.5m			17.5m			17.5m				
0°	15°	30°	0°	15°	30°	0°	15°	30°		
14										14
16										16
18	3.5									18
20	3.6		2.7			1.9				20
22	3.5	3.1	2.7			1.9				22
24	3.5	3.0	2.7	2.8		1.9	1.9			24
26	3.5	2.9	2.2	2.7	2.8	1.9	1.9			26
28	3.4	2.9	2.1	2.7	2.7	2.1	1.9	1.9	1.9	28
30	3.3	2.8	2.1	2.7	2.7	2.1	1.9	1.9	1.9	30
32	3.1	2.8	2.1	2.8	2.6	2.1	1.9	1.9	1.9	32
34	3.1	2.8	2.1	2.8	2.6	2.0	1.9	1.9	1.9	34
36	3.1	2.7	2.0	2.7	2.7	2.0	1.9	1.9	1.9	36
38	2.9	2.7	2.0	2.4	2.5	2.0	1.9	1.9	1.9	38
40	2.6	2.6	1.9	2.1	2.2	2.0	1.8	1.9	1.9	40
42	2.4	2.4	1.9	1.8	2.0	1.9	1.6	1.7	1.8	42
44	2.1	2.1	1.9	1.6	1.8	1.9	1.4	1.6	1.6	44
46	1.8	1.9	1.8	1.4	1.6	1.7	1.2	1.4	1.4	46
48	1.6	1.7	1.7	1.3	1.4	1.5		1.2	1.3	48
50	1.4	1.5	1.6		1.1	1.3			1.1	50
52	1.2	1.3	1.4			1.1				52
54	1.1	1.2	1.2							54
56										56
58										58
组合 Code	222211			222221			222222			组合 Code

符号标识
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 Boom hoisting 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 hoisting height		卷扬 Winch
	独立臂头 Independent jib head		360°全回转 360° operation of the boom
	主臂加长节 Boom extension		

主要技术参数

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	14815×2760×3980
	轴距 Wheel base		mm	2000+4000+1500
	轮距（前/后） Track（Front/ Rear ）		mm	2353/2325
	前悬/后悬 Front/ Rear overhang		mm	2525/2380
	前伸/后伸 Front/ Rear extension		mm	2225/185
重量参数 Weight	最大允许总质量 Max. permissible total weight		kg	48000
	轴荷 Axle load	一轴 1st axle	kg	12300
		二轴 2nd axle	kg	12300
		三轴 3rd axle	kg	11700
		四轴 4th axle	kg	11700
动力参数 Power	发动机型号 Engine model		——	WP12.430E50
	额定功率/转速 Engine rated power/rpm		kW/(r/min)	316/1900
	最大净功率/转速 Max. net power/rpm		kW/(r/min)	311/1900
	最大输出扭矩/转速 Max. output torque/rpm		N.m/(r/min)	2060/1000-1400
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	1.7～3
	最小转弯直径 Min. turning diameter		m	≤20
	臂头最小转弯直径 Min. turning diameter at boom head		m	≤24.6
	最小离地间隙 Min. ground clearance		mm	367
	接近角 Approach angle		°	20
	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		%	48
	百公里油耗 Fuel consumption per 100 km		L	45
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

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	3.0	
	转台尾部回转半径 Turning radius at turntable tail	平衡重处 Counterweight	mm	4760	
		副卷处 Auxiliary winch	mm	4760	
	最大起重力矩 Max. load moment	基本臂 Base boom	kN.m	3840	
		最长主臂 Fully-extended boom	kN.m	1872	
		最长主臂+副臂 Fully-extended boom + Jib	kN.m	1404	
	支腿跨距 Outrigger span	纵向 Longitudinal	m	7.95 (7.3)	
		横向 Lateral	m	7.90 (5.9)	
	起升高度 Hoisting height	基本臂 Base boom	m	13.6	
		最长主臂 Fully-extended boom	m	70	
		最长主臂+副臂 Fully-extended boom + Jib	m	95	
	起重臂长度 Boom length	基本臂 Base boom	m	13	
		最长主臂 Fully-extended boom	m	70	
最长主臂+副臂 Fully-extended boom + Jib		m	96.9		
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	65	
	起重臂全伸时间 Boom fully extended time		s	590	
	最大回转速度 Max. slewing speed		r/min	1.8	
	支腿收放时间 Outrigger extending and retracting time	水平支腿 Outrigger beam	收 Retracting	s	30
			放 Extending	s	40
		垂直支腿 Outrigger jack	收 Retracting	s	30
			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	130
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 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 horizontal distance between the load and slewing axis of crane 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.
- 6. Extend boom sections according to the specified percentage.



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