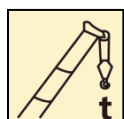


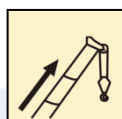
# XCT75\_S 汽车起重机 / Truck Crane

## 技术规格书

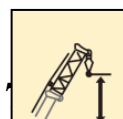
Basic technical specification



75 t



48 m



74 m



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## 目录 Content

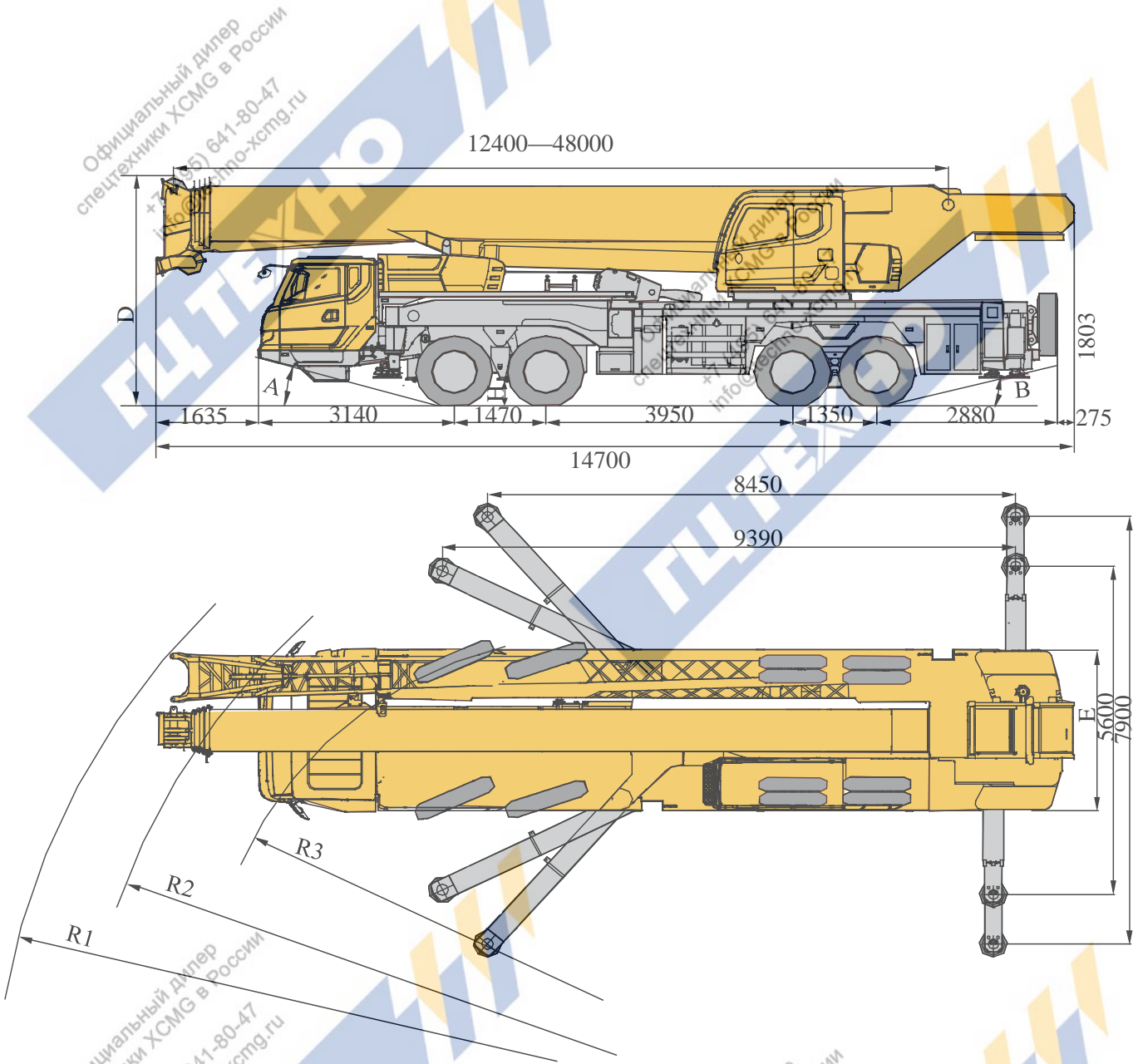
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# 尺寸参数



## Dimensions




	A	B	D	E	R1	R2	R3	H
12.00R24-20PR	16°	11.5°	3910	2750	14950	14050	12000	305

## 技术规格

## Technical specifications

 Chassis	
<b>Frame</b>	Designed and manufactured by XCMG, with all covered walking surface, anti-torsion box structure and optimal load-bearing structure design, made of high strength steel.
<b>Outrigger</b>	4 outriggers, K-shaped arrangement, rear lateral outrigger are two stage , lateral and vertical outrigger controlled by the hydr-aulic control. Both sides of the chassis equip-ed with outrigger operating system, lighting and speed buttons; outrigger cylinders equipped with one-way valve, and the vertical outrigger has two-way hydraulic lock. Scale of outrigger float:Φ450 Most force on outrigger:730KN.
<b>Engine</b>	MC11.36-50, in-line six-cylinder water-cooled EFI diesel engine, manufactured by CNHTC, rated power 268kW /1900rpm, max torque 1800Nm / 1000-1400rpm, the national V emission standards.
<b>Gearbox</b>	Mechanical transmission manufactured by Fast, with 10 forw-ard gears and 2 reverse gears available
<b>Axles</b>	High strength axle with reliable performance, manufactured by xuzhou Meritor,1&2 axles sreering,3&4 axles driving.
<b>Suspension</b>	Front suspension is steel spring,rear suspension is rubber spring.
<b>Tires</b>	12 tires and 1 spare tire, 1&2 axles are equipped with single tire,3&4 axles are equipped with double tire. Tire specifications:12.00R24-20PR*
<b>Brakes</b>	Service brake: double-circuit air pressure brake, acting on all wheels. Parking brake: spring energy brake, acting on wheels of 2&3&4 axles. Auxiliary brake: engine retarded brake,
<b>Steer</b>	1&2 axles sreering, mechanical steer with hydraulic assist
<b>Cab</b>	Luxurious cab,equiped with electronic control glass,seat can be adjusted, electronic control mirror, LCD and CD player,2 kilograms fire extinguisher. Cold-warm air-condition is equiped.
<b>Electric</b>	24V(DC),2 battery in series. Generator:24V,80A
 Boom system	
<b>Boom</b>	5-section, U-shape cross section, welding structure. Double-cylinder plus ropes telescoping system is designed to extend/retract the boom. Boom length:12.4m ~ 48m.
<b>Boom Single top</b>	Boom single top is installed on the top of boom and used for lifting operation of single line wire rope. The lifting performance of boom single top is the same with boom, but max. load capacity cannot exceed 6500kg.
<b>Jib</b>	It is stowed beside the boom, consisted of a connecting bracket, a rotating bracket and two lattice bi-fold jibs with jib offset angle: 0°,15°,30 Jib length 10.5m/17.5m.
<b>Boom extension</b>	Lattice welding structure , 9m

 Superstructure	
<b>Frame</b>	Designed and manufactured by XCMG; made of high-strength steel
<b>Hydraulic system</b>	The variable plunger pump driven by engine is used to control hoisting, elevating and telescoping; and the gear pump is used for slewing operations. Load sensitive proportional multi-way change valve, Air-cooled hydraulic oil radiator; Volume of hydraulic oil tank: 1000L
<b>Operating mode</b>	Hydraulic pilot control of all crane movements using two control levers. All crane movements are controlled by hydraulic pump and proportional valve.
<b>Main winch system</b>	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.
<b>Auxiliary winch system</b>	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.
<b>Slewing system</b>	Single-row four-point contact ball type with external slewing ring, planetary gear slewing reducer is driven by hydraulic motor which can slew 360° continuously. It has functions of power control or free slewing and stepless speed regulation is available.
<b>Elevating System</b>	A single-supported double acting cylinder with balance valve equipped is used for front support elevation.
<b>Operator's cab</b>	New fully-enclosed steel tiltable cab with a full-view front window. Safety glass and sun shield are used for windows. Wipers are fitted for the windshield and roof window. The cab features a new ergonomic seat design with backrest adjustment and armrests with joysticks fitted. A sliding door and a pull-out step are available. Air conditioner are available.
<b>Safety devices</b>	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.
<b>Combined counterweight</b>	10.5 t

## Additional equipment

<b>Counterweight</b>	The optional weight is 4.5 t.
<b>Safety devices</b>	Anemometer, level gauge , backup camera , caution lamp, Functions for EAC certificate, including virtual wall, low temperature warning and high voltage warning functions .

Product parts list is as mentioned above, please refer to the product quotation for specific parts.

## 重量 Weight



车桥

Axle

	1	2	3	4	总重量 Total weight
备注 Notes	10	10	13	13	46
携带主钩、副钩、副臂、副卷、1.5t平衡重 Main hook, auxiliary hook, jib, auxiliary winch and 1.5 t counterweight are carried on the crane					



吊钩

Hook

倍率

No. of lines

吊钩重量

Weight kg

吊钩尺寸

Dimensions mm

备注

Remarks

75t

12

700

1735×554×520

单钩 Single hook , 标配 Standard

55t

8

470

1600×520×370

单钩 Single hook , 选配 Optional

7t

1

210

717×370×370

单钩 Single hook , 标配 Standard

## 作业速度 Working speeds



12.00R24



1 ~ 80



45%



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



0-145

m/min , 单绳 , 第四层  
m/min, single line, 4th layer

64.1 kN

20 mm/240m



0-90

m/min , 单绳 , 第四层  
m/min, single line, 4th layer

63.7 kN

20 mm/180 m



0-2 r/min



从-2°抬起至81°约55s

Approx. 55s for boom elevation from -2 ° to 81 °



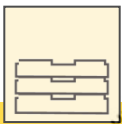
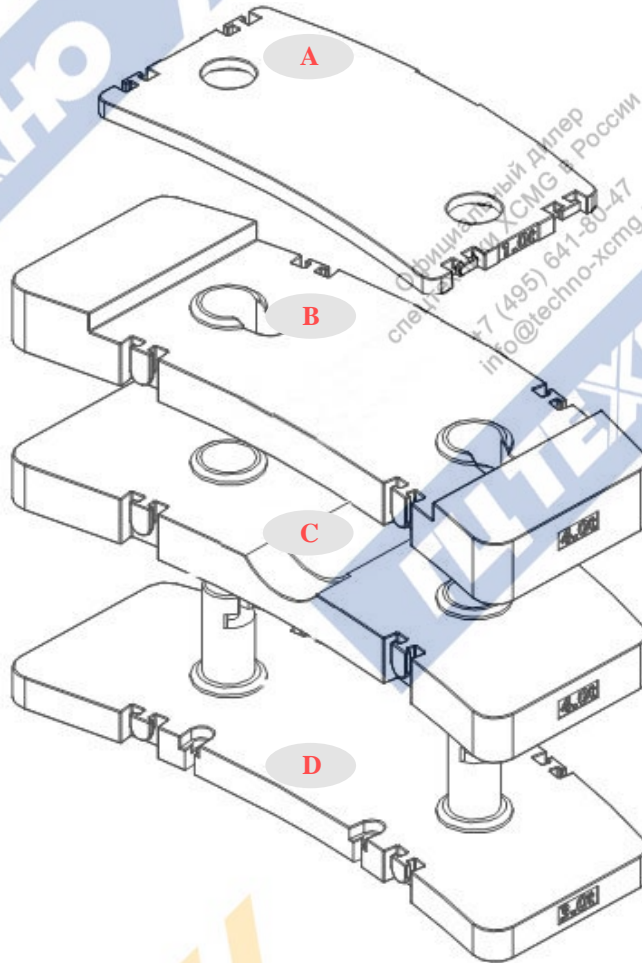
从12.4m伸出至48m约110s

Approx. 110s for boom extension from 12.4m to 48m

# 平衡重

## Counterweight

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### 平衡重

### Counterweight

尺寸 (长×宽×高) m  
Size (L×W×H) m

重量 t  
Weight t

	A	B	C	D
尺寸 (长×宽×高) m Size (L×W×H) m	1890×1300 ×110	2700×1490×300	2700×1490×270	2700×1490×620
重量 t Weight t	1.5	4.5	4.5	4.5

### 工况模式

### Working mode

### 组合形式

### Combinations

工况模式 Working mode	1.5t	6t	10.5t	15t
组合形式 Combinations	A	A+B	A+B+C	A+B+C+D

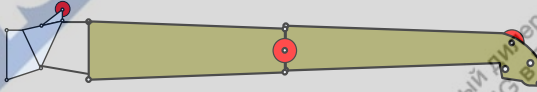
# 臂架组合方案

## Boom / Jib combinations

副臂 - 10.5m  
Jib - 10.5m


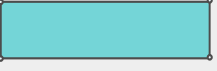




副臂 - 17.5m  
Jib - 17.5m



主臂加长节 -  
26.5m  
Telescopic boom  
extension - 26.5m



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		1910×740×1050	221
主臂加长节 Telescopic boom extension		9000×830×1400	600
一节副臂总成 First jib section assembly		9340×620×900	567
二节副臂总成 Second jib section assembly		6520×300×430	259

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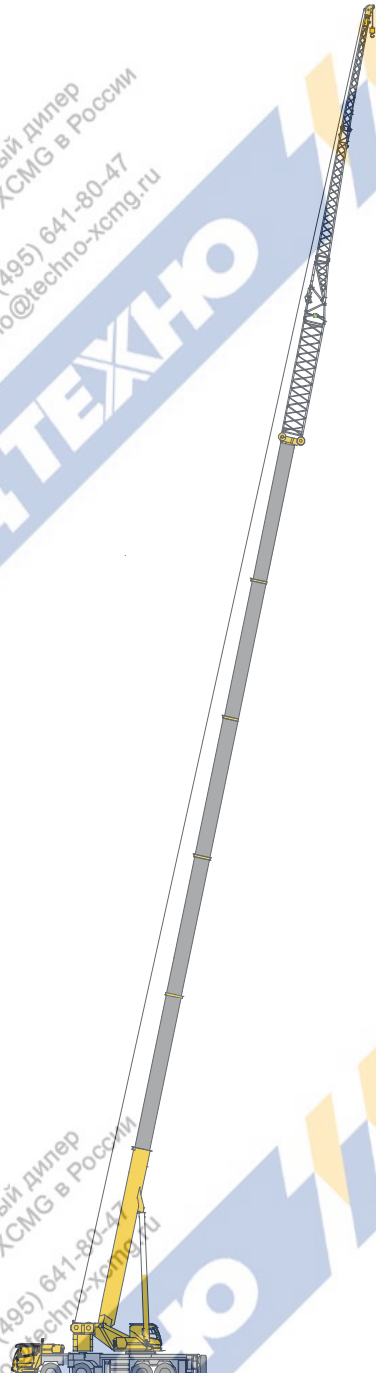
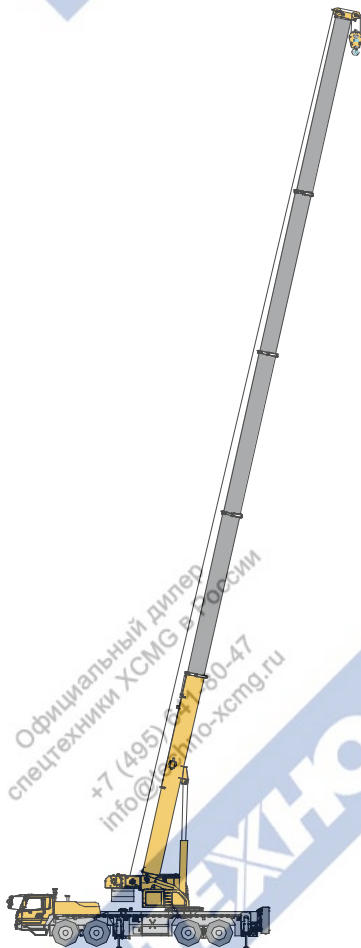
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# 臂架组合方案

## Boom / Jib combinations

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**主臂**  
Telescopic boom

T : 12.4~48m

**副臂**  
Jib

T : 48m  
J : 10.5~17.5 m

**主臂加长节**  
Telescopic boom extension

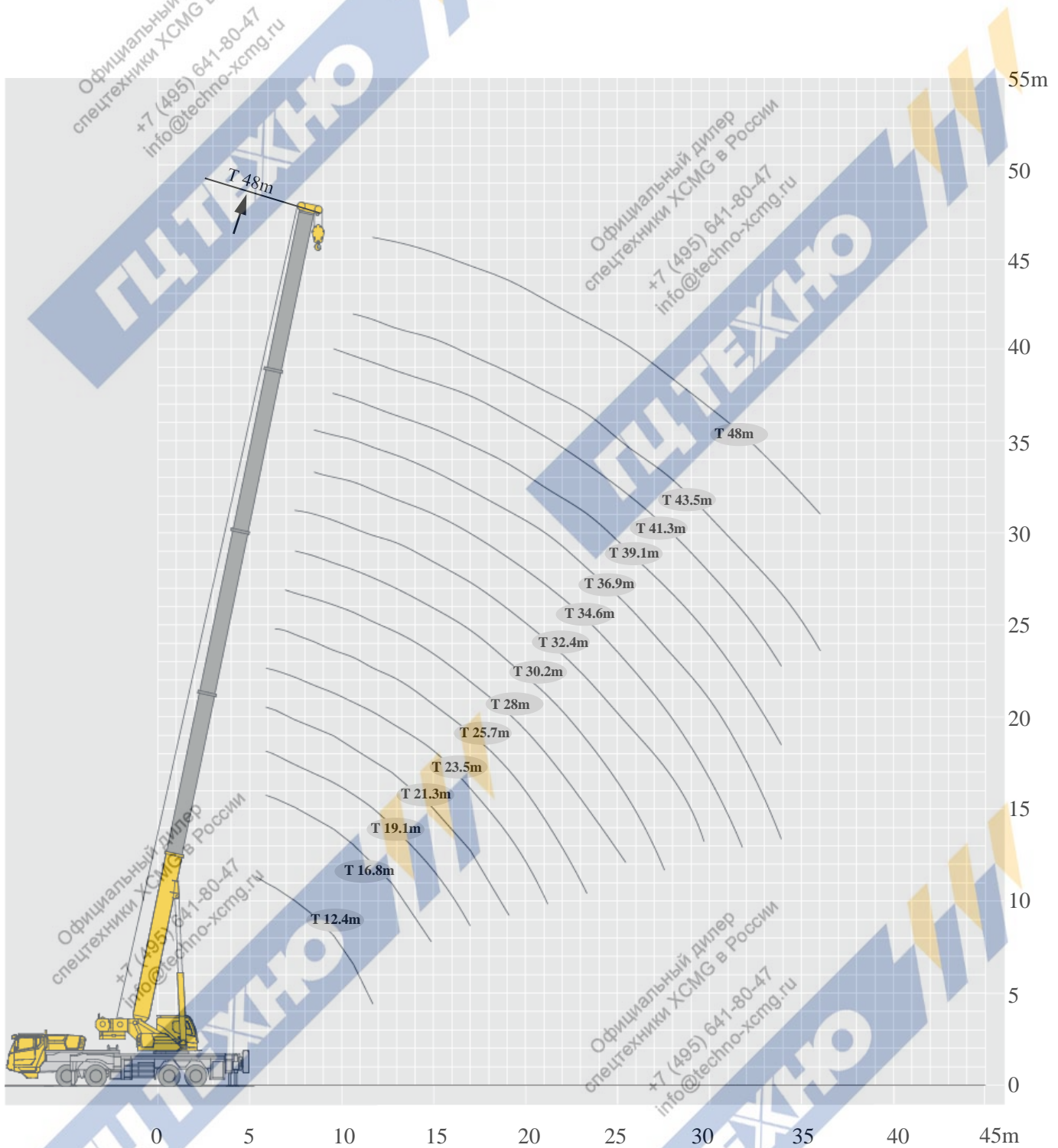
T : 48m  
I : 9m  
J : 10.5~17.5m



# 起升高度曲线图

## Lifting heights

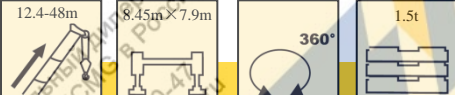
主臂  
Boom



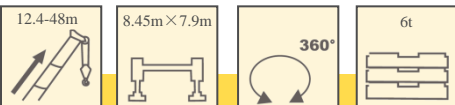
# 起重性能表

## Lifting capacities

T 12.4~48m



	12.4m	16.8m	19.1m	21.3m	23.5m	25.7m	28m	30.2m	32.4m	34.6m	36.9m	39.1m	41.3 m	43.5	48m
3	75														3
3.5	75														3.5
4	75	63.3	37.1	46.0											4
5	62	58	34.5	45.0	36.5	29.5	35.0								5
6	49.3	48.6	32.3	40.0	34.5	27.2	34.7	32.4	23.8						6
7	34	33.4	30.5	33.0	32.6	25.1	31.9	29.7	22.2	25.4					7
8	25.3	24.8	27.6	24.4	26.8	23.6	26.2	27.9	20.9	23.3	20.5	14.3	19.6		8
9	19.7	19.3	21.8	18.9	21.1	22.4	20.5	22.1	19.6	21.5	19.6	13.8	18.2	13.1	9
10		15.4	17.8	15.1	17.1	18.7	16.6	18.0	18.4	17.5	17.8	13.2	17.2	13.0	12.7
12		10.2	12.5	9.9	11.9	13.4	11.4	12.8	13.9	12.2	13.3	12.1	12.8	12.5	11.7
14			9.1	6.7	8.5	9.9	8.0	9.3	10.4	8.8	9.8	10.7	9.4	10.2	9.7
16				4.5	6.2	7.6	5.8	7.0	8.0	6.5	7.5	8.3	7.0	7.8	7.4
18					4.6	5.9	4.1	5.3	6.3	4.9	5.8	6.6	5.4	6.1	5.7
20						4.6	2.9	4.1	5.0	3.6	4.5	5.3	4.1	4.8	4.5
22							2.0	3.1	4.0	2.7	3.6	4.3	3.2	3.9	3.5
24								2.3	3.3	1.9	2.8	3.5	2.4	3.1	2.7
26									2.6	1.3	2.1	2.8	1.7	2.4	2.0
28										0.8	1.6	2.3	1.2	1.9	1.5
30											1.1	1.8	0.8	1.2	1.0




	12.4m	16.8m	19.1m	21.3m	23.5m	25.7m	28m	30.2m	32.4m	34.6m	36.9m	39.1m	41.3 m	43.5	48m
3	75														3
3.5	75														3.5
4	75	63.3	37.1	46.0											4
5	62	58	34.5	45.0	36.5	29.5	35.0								5
6	54	50	32.3	40.0	34.5	27.2	34.7	32.4	23.8						6
7	41.5	40.8	30.5	38.0	32.6	25.1	31.9	29.7	22.2	25.4					7
8	31.2	30.6	28.8	30.2	31.0	23.6	29.5	27.9	20.9	23.3	20.5	14.3	19.6		8
9	24.5	24	26.6	23.7	25.9	22.4	25.3	26.7	19.6	21.9	19.6	13.8	18.2	13.1	9
10		19.4	21.9	19.1	21.2	21.2	20.6	22.1	18.4	20.5	17.8	13.2	17.2	13.0	12.7
12		13.4	15.7	13.1	15.0	16.5	14.5	15.9	16.2	15.4	16.0	12.1	15.9	12.5	11.7
14			11.8	9.4	11.2	12.6	10.7	12.0	13.0	11.5	12.5	10.7	12.0	12.0	11.4
16				6.7	8.5	9.9	8.1	9.3	10.3	8.8	9.8	9.6	9.4	10.1	9.7
18					6.5	7.9	6.1	7.3	8.3	6.8	7.8	8.5	7.3	8.1	7.7
20						6.4	4.6	5.8	6.8	5.4	6.3	7.0	5.8	6.6	6.2
22							3.5	4.6	5.6	4.2	5.1	5.8	4.7	5.4	5.0
24								3.7	4.6	3.3	4.1	4.9	3.7	4.4	4.1
26									3.8	2.5	3.4	4.1	3.0	3.7	3.3
28										1.9	2.7	3.4	2.3	3.0	2.6
30											2.2	2.9	1.8	2.4	2.1
32												2.4	1.3	2.0	1.6
34														1.6	1.2
36															0.8

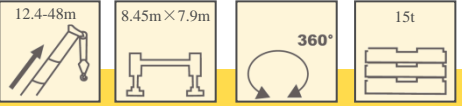
# 起重性能表

## Lifting capacities

T 12.4~48m



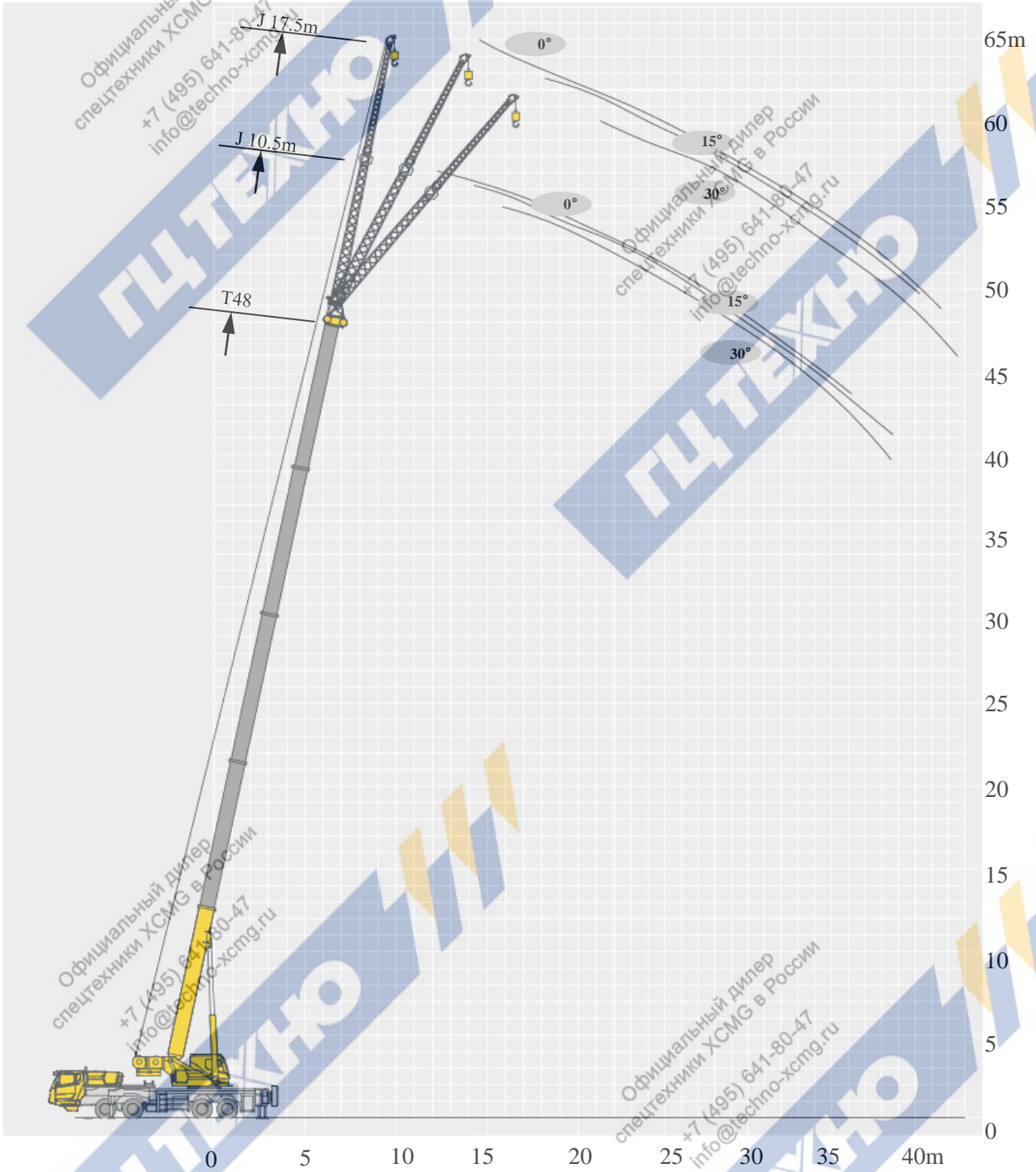
	12.4m	16.8m	19.1m	21.3m	23.5m	25.7m	28m	30.2m	32.4m	34.6m	36.9m	39.1m	41.3 m	43.5	48m	
3	75															3
3.5	75															3.5
4	75	63.3	37.1	46.0												4
5	62	58	34.5	45.0	36.5	29.5	35.0									5
6	54	50	32.3	40.0	34.5	27.2	34.7	32.4	23.8							6
7	45	44	30.5	38.0	32.6	25.1	31.9	29.7	22.2	25.4						7
8	36.4	35.8	28.8	35.5	31.0	23.6	29.5	27.9	20.9	23.3	20.5	14.3	19.6			8
9	28.8	28.3	27.4	28.0	29.6	22.4	27.5	26.7	19.6	21.9	19.6	13.8	18.2	13.1		9
10		23.1	24.8	22.7	24.8	21.2	24.3	25.3	18.4	20.5	17.8	13.2	17.2	13.0	12.7	10
12		16.2	18.5	15.9	17.8	19.2	17.3	18.7	16.2	18.2	16.0	12.1	16.6	12.5	11.7	12
14			14.1	11.7	13.4	14.9	13.0	14.3	14.4	13.8	14.3	10.7	14.3	12.0	11.4	14
16				8.8	10.5	11.8	10.0	11.2	12.2	10.8	11.7	9.6	11.3	10.6	10.3	16
18					8.3	9.6	7.9	9	10	8.6	9.5	8.5	9.1	9.5	9.1	18
20						7.9	6.2	7.4	8.3	7.0	7.8	7.7	7.4	8.1	7.7	20
22							4.9	6.1	7.0	5.6	6.5	7.06	6.1	6.8	6.4	22
24								5.0	5.9	4.6	5.4	6.2	5	5.7	5.4	24
26									5.0	3.7	4.5	5.3	4.1	4.8	4.5	26
28										2.9	3.8	4.5	3.4	4.1	3.7	28
30											3.2	3.9	2.8	3.4	3.1	30
32												3.3	2.2	2.9	2.5	32
34														2.4	2.1	34
36															1.7	36



	12.4m	16.8m	19.1m	21.3m	23.5m	25.7m	28m	30.2m	32.4m	34.6m	36.9m	39.1m	41.3 m	43.5	48m	
3	75															3
3.5	75															3.5
4	75	63.3	37.1	46.0												4
5	62	58	34.5	45.0	36.5	29.5	35.0									5
6	54	50	32.3	40.0	34.5	27.2	34.7	32.4	23.8							6
7	45	44	30.5	38.0	32.6	25.1	31.9	29.7	22.2	25.4						7
8	38	38	28.8	36.4	31.0	23.6	29.5	27.9	20.9	23.3	20.5	14.3	19.6			8
9	32	32	27.4	32.3	29.6	22.4	27.5	26.7	19.6	21.9	19.6	13.8	18.2	13.1		9
10		26.7	24.8	26.4	27.8	21.2	25.6	25.3	18.4	20.5	17.8	13.2	17.2	13.0	12.7	10
12		19	21.3	18.7	20.6	19.2	20.1	21.5	16.2	18.3	16.0	12.1	16.6	12.5	11.7	12
14			16.3	14.0	15.7	17.1	15.3	16.5	14.4	16.0	14.3	10.7	14.4	12.0	11.4	14
16				10.7	12.4	13.7	11.9	13.1	12.9	12.7	12.9	9.6	12.6	10.6	10.3	16
18					10.0	11.3	9.5	10.7	11.64	10.3	11.2	8.5	10.7	9.5	9.1	18
20						9.4	7.7	8.8	9.8	8.4	9.3	7.7	8.9	8.5	8.2	20
22							6.3	7.4	8.3	6.9	7.8	7.06	7.4	7.8	7.4	22
24								6.2	7.1	5.8	6.6	6.4	6.2	6.9	6.5	24
26									6.1	4.8	5.6	5.9	5.3	5.9	5.6	26
28										4.0	4.8	5.4	4.4	5.1	4.7	28
30											4.1	4.8	3.7	4.4	4.0	30
32												4.2	3.1	3.8	3.4	32
34														3.3	2.9	34
36															2.5	36

# 起升高度曲线图 Lifting heights

副臂  
Jib



# 起重性能表

## Lifting capacities

J 10.5m/17.5m

	10.5m			17.5m			
	0°	15°	30°	0°	15°	30°	
	80	6.5	4.6	4.4	4.0	2.5	
78	6.3	4.5	4.3	3.7	2.2	1.7	78
75	6.0	4.1	3.8	3.2	2.0	1.6	75
72	5.2	3.8	3.6	2.7	1.8	1.5	72
70	4.8	3.6	3.5	2.5	1.7	1.5	70
65	4.0	3.3	3.1	1.9	1.5	1.3	65
60	3.2	2.9	2.6	1.7	1.4	1.3	60
55	2.4	2.2	2.1	1.4	1.3	1.2	55
50	1.5	1.4	1.4				50

	10.5m			17.5m			
	0°	15°	30°	0°	15°	30°	
	80	6.5	4.6	4.4	4.0	2.5	
78	6.3	4.5	4.3	3.7	2.2	1.7	78
75	6.0	4.1	3.8	3.2	2.0	1.6	75
72	5.2	3.8	3.6	2.7	1.8	1.5	72
70	4.8	3.6	3.5	2.5	1.7	1.5	70
65	3.7	3.3	3.1	1.9	1.5	1.3	65
60	2.5	2.3	2.2	1.7	1.4	1.3	60
55	1.7	1.6	1.5	1.1	1.0	0.9	55
50	1.0	0.9	0.8				50

	10.5m			17.5m			
	0°	15°	30°	0°	15°	30°	
	80	6.5	4.6	4.4	4.0	2.5	
78	6.3	4.5	4.3	3.7	2.2	1.7	78
75	6.0	4.1	3.8	3.2	2.0	1.6	75
72	5.2	3.8	3.6	2.7	1.8	1.5	72
70	4.5	3.6	3.5	2.5	1.7	1.5	70
65	2.8	2.6	2.4	1.9	1.5	1.3	65
60	1.8	1.7	1.6	1.1	1.0	0.9	60
55	0.9	0.8	0.8				55
50	6.5						50

	10.5m			17.5m			
	0°	15°	30°	0°	15°	30°	
	80	6.5	4.6	4.4	4.0	2.5	
78	6.3	4.5	4.3	3.7	2.2	1.7	78
75	5.9	4.1	3.8	3.2	2.0	1.6	75
72	4.2	3.6	3.2	2.7	1.8	1.5	72
70	3.4	2.9	2.7	2.5	1.7	1.5	70
65	1.9	1.7	1.6	1.3	1.0	0.9	65
60	0.9	0.8	0.7				60

# 符号标识

## Description of symbols

### 常规标识

#### General symbols

	上车 Superstructure
	起重能力 lifting capacity
	吊臂长度 Boom length
	工作幅度 Radius
	吊臂仰角 Boom angle
	主臂起升高度 Hoist height with Boom
	固定副臂长度 Fixed jib length
	副臂安装角 Jib offset angle
	副臂起升高度 Hoist height with jib
	主臂加长节 Boom extension

	底盘 Chassis
	车桥 Axle
	行驶速度 Driving speed
	爬坡能力 Grade ability
	轮胎 Tires
	支腿 Outriggers
	吊钩 Hook block
	平衡重 Counterweight
	卷扬 Winch
	360°全回转 360° rotation

# 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/m<sup>2</sup>)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/m<sup>2</sup>).
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 .

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