

徐工徐工 助您成功
XCMG FOR YOUR SUCCESS



XGC55T 伸缩臂履带起重机
TELESCOPIC CRAWLER CRANE



地址(Add): 中国江苏省徐州市金山桥经济开发区桃山路19号 邮编(Postal Code): 221004
No.19 Taoshan Road, Economic development zone of jinshanqiao,Xuzhou,Jiangsu Province,China
统一服务热线(Unified service hotline): 86 400-110-9999
销售热线Sales Hotline
销售电话(Sale Tel): 86 0516-87892094
销售传真(Sale Fax): 86 0516-87892074
电子邮件(E-mail): jjyxd@xcmg.com
服务质量投诉电话
(Quality Supervision Tel): 86 0516-87892587
服务热线Service Hotline
服务电话(Service Tel): 86 400-001-5678
服务传真(Service Fax): 86 0516-87892080
备件电话(Service Tel): 86 0516-87892086
备件传真(Service Fax): 86 0516-87892083



欢迎访问徐工商城
省心更省钱一站式

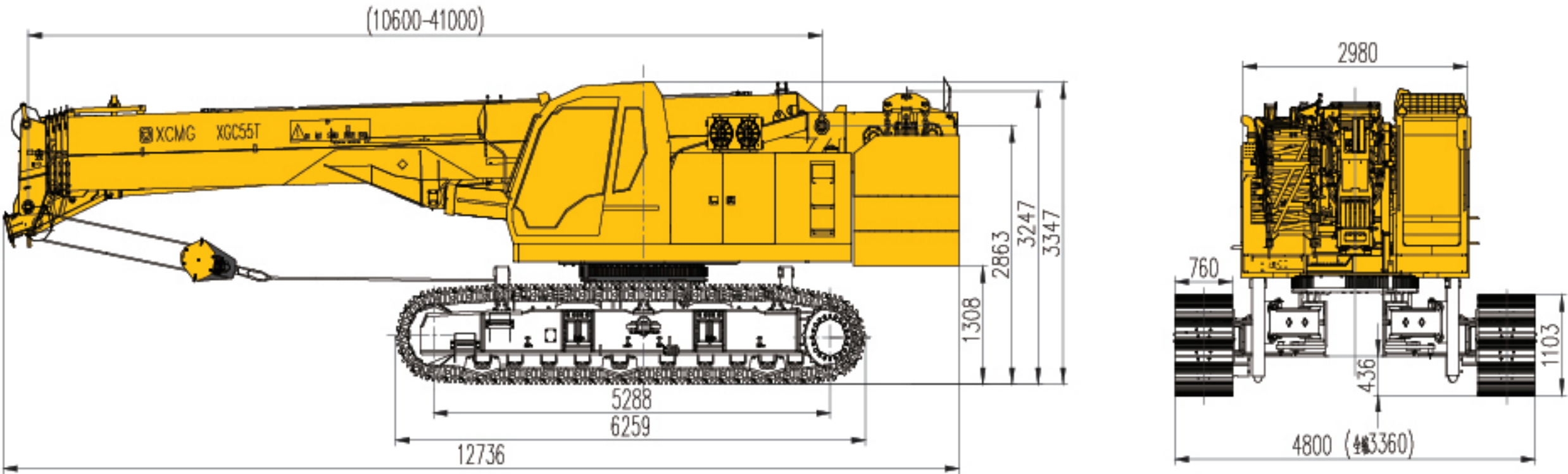


欢迎关注徐工履带起重机官方微信
1. 直接扫码“XCMG_xgj”添加好友
2. 查找公众账号“徐工履带起重机”
3. 直接扫描上方二维码

主要技术参数
The Main Technical Parameters

类别 Type	项目 Items		单位 Unit	参数 Data
尺寸参数 Dimension	整机全长 Overall length		mm	12736
	整机全宽 (伸 / 缩) Overall width (extension/retraction)		mm	4800/3360
	整机全高 Overall height		mm	3347
	主、从动轮中心距 Central distance from drive roller to driven roller		mm	5288
	履带板宽 Track shoe width		mm	760
重量参数 Weight	行驶状态总质量 Total mass in travel state		kg	62000
行驶参数 Travel	空载行驶速度 Max. travel speed with no load		km/h	2.3
	满载行驶速度 Max. travel speed with full load		km/h	1.5
	最小离地间隙 Min. ground clearance		mm	436
	最大爬坡能力 Max. grade-ability		%	45
	接地比压 Ground pressure		MPa	0.08
动力参数 Power	耳旁噪声 Noise at ear in the cab		dB(A)	80
	发动机型号 Engine model		-	QS86.7
	发动机额定功率 Engine rated output power		kW	165
	发动机额定转速 Engine rated rotation speed		r/min	1800
	发动机排放标准 Engine emission standard		-	非道路 EU Stage IIIA
容积参数 Capacity	液压油箱容积 Hydraulic oil tank		L	900
	燃油箱容积 Fuel tank		L	550
主要性能参数 Main performance	最大额定总起重量 Max. rated lifting capacity		t	55
	最小额定幅度 Min. rated working radius		m	3
	最大起重力矩 Max. load moment	基本臂 Base boom	kN·m	2116.8
		最长主臂 Max. length boom	kN·m	1027
	起升高度 Lifting height	基本臂 Base boom	m	10.9
		最长主臂 Max. length boom	m	41.4
		最长主臂 + 副臂 Max. length boom + Jib	m	55
	起重臂长度 Boom length	基本臂 Base boom	m	10.6
		最长主臂 Max. length boom	m	41
		最长主臂 + 副臂 Max. length boom + Jib	m	57
工作速度 Working speed	副臂安装角 Jib offset angle		°	0, 15, 30
	主臂起臂时间 Boom raising time		s	60
	主臂全伸时间 Boom full extension time		s	110
	最大回转速度 Max. slewing speed		r/min	2.0
	起升速度(空载四层)	主起升机构 Main winch	m/min	140
	Hoisting speed(no load at the 4th layer)	副起升机构 Auxiliary winch	m/min	140

本印刷品所包含的数据,会随着产品的不断升级而改变,请以实际产品为准
Pictures and data in this catalog will change with the update and modification of products, so please take the actual vehicle as reference.



详细介绍
Brief Introduction

上车 / Crane Superstructure

发动机 / Engine	
配置东风康明斯QSB6.7发动机（EU StageIIIA），额定功率/转速：165kW/1800rpm。空滤器采用平原空滤器，可靠稳定的除尘效果保证主机平稳长时间运行。燃油箱：有效容积550L。	
Dongfeng Cummins QSB6.7 engine (EU Stage IIIA) rated power / speed: 165kW/ 1800rpm., Pingyuan air filter, reliable and stable dust-proof ensure the machine smooth and long time running. Fuel tank: effective capacity 550L.	
起升机构 / Hoist Gear	
起升机构描述：	Hoist winch description:
空载起升速度：0~140m/min。	Hoisting speed with no load: 0~140m / min.
钢丝绳直径/长度：	Wire rope diameter / length:
主卷钢丝绳：18mm/220m。	Main winch rope: 18mm/220m.
副卷钢丝绳：18mm/125m。	Auxiliary winch rope: 18mm/125m.
额定单绳拉力:5.2t。	Rated single line pull: 5.2t.

变幅机构 / Luffing Gear
变幅机构描述：单缸前变幅主臂起臂时间≤60S
Luffing winch description: single cylinder front support luffing Boom lifting time ≤60S.

电气控制系统 / Electric Control System
采用ECU控制器，脚油门，手油门，通过CAN实现对发动机转速的高效控制。系统采用供电方式为DC 24V，负极搭铁单线制。采用PLC可编程控制器作为控制系统的核心，系统由发动机控制、安全控制、先导控制、力矩限制器控制、辅助功能控制等几部分组成。通过显示器实时监测发动机水温、机油压力，当超过安全临界值时，蜂鸣器自动报警；同时，通过力限器对当前工况的分析，当吊重量、仰角或幅度任意一值超出安全范围时，三色报警灯和蜂鸣器会发出“声光报警”并通过程序控制，限制危险动作的进行。
Use of ECU controller, foot accelerator, hand accelerator, efficient control of the engine speed by CAN. The system uses DC 24V for power supply, negative ground and single cable system. PLC programmable controller is used as the core of the control system, the system consists of several parts such as engine control, safety control, pilot control, load moment limiter control, auxiliary function control. Real-time monitoring through the display of engine temperature, oil pressure, buzzer warning when the load exceeds the safety limit; at the same time, analysis of current conditions such as lifting load weight, boom elevation angler or radius through load moment limiter, if any values exceed safe limits, a three-color warning light and buzzer will give "sound and light warning", and control and restriction of hazardous actions by program control.

回转机构 / Slewing Gear
回转机构布置于转台右前端，由马达驱动。行星减速机，与回转支承外啮合齿轮进行回转，液压缓冲，具有自由滑转功能，保证作业安全。行星齿轮减速机具备常闭、片式制动器，工作可靠维修方便。回转支承：采用单排四点接触球式回转支承，承载能力强，保证上车360°回转作业安全、平稳。回转速度：0~2.0r/min
Slewing unit is arranged at turntable right front, driven by the motor, with planetary gear reducer, external engaged by slewing ring for rotation, with hydraulic buffer and free-swing function, adjust the boom lifting active line with the lead line in the straight line, to ensure safe operation. Planetary gear reducer has a constant closed disc brake for reliable work and easy maintenance. Slewing ring: it is single-row 4-point-contact ball type slewing ring, with strong load bearing capacity, to ensure the superstructure 360 ° slewing operation, safe and stable. Slewing speed: 0 ~ 2.0r / min.

液压系统 / Hydraulic System
液比例阀控制，控制精准，微动性好，调速范围广。起重作业与行驶作业液压系统共用一恒功率负载敏感的A8V107双泵，回转系统采用单独的齿轮泵供油。
Hydraulic proportional valve control, precision control, good fine motion, and wide speed range. the hydraulic system for lifting operations , and the travel hydraulic system share one constant power and load sensitive A8V107 twin-pump, slewing system is supplied oil by displacement gear pump.

下车 / Crane Carrier

下车包括车架、履带架、行走装置。车架和履带架采用插入式连接，拉板限位。Crane carrier comprises car-body,crawler track and travel gear.Car-body and crawler are using the plug-in connection.
履带伸缩 / Track Frame Extension/Retraction
将下车行走切换阀，切换到收梁状态，通过履带伸缩油缸实现履带梁的扩张与收缩。方便转场及狭窄环境通过。Exchange undercarriage travel valve to track frame retraction, track frame extension/ retraction is achieved by track frame telescopic cylinder, facilitate site transition and narrow environment through.

行走装置 / Travel Gear
由行走马达、减速机、驱动轮来实现整机的直线行走及转弯。空载行驶速度为0~2.3 km/h，带载行驶速度为0~1.5 km/h。
By travel motor, speed reducer, drive sprocket to achieve the machine walk in straight -line or turn around, with no-load travel speed 0~2.3km/h, with a load travel speed 0~1.5 km/h.

吊钩 / Hook Block			
名称 Name	55t吊钩 55t hook block	25t吊钩 25t hook block	4.5t吊钩 4.5t hook block
重量 Weight (Kg)	520	315	93
数量Qty.	1	1	1

平衡重 / Counterweight

转台平衡重由1块6t、1块5.5t平衡重和2块2.6t平衡重组成，转台平衡重可根据具体吊重量及臂长进行选装，详见下表：

转台平衡重装配组合：

Superstructure counterweight has 1 slab of 6t,1 slabs of each 5.5t; 2 slab of 2.6t, the superstructure counter- weight is option according to the specified lifting load and boom length, as shown in the table below:

The superstructure counterweight assembly:

序号 No.	平衡重重量（ t ） Counterweight (t)	转台平衡重组合方式 Combination
1	0	0（平衡重不安装） 0 (no assembly)
2	6	6
3	11.5	6+5.5
4	16.7	6+5.5+2.6+2.6

安全装置 / Safety Devices

安全装置包括急停开关、先导控制开关、力矩限制器、起升高度限制器、水平仪、回转锁止装置、三圈保护器等。Safety devices comprise:emergency stop switch、pilot control switch、load moment limiter、hoist limit switch、level meter、slewing locking device、rope-end limiter, etc.
急停开关 / Emergency Switch
按下急停开关，发动机熄火，整车动作停止。Press the emergency stop switch to stop the engine, and to stop all the machine movements.

先导控制开关 / Pilot Control Switch
按下开关后，起重作业电气系统才能正常操作。Press the switch, the electric system for lifting operation starts to a normal work.

力矩限制器 / Load Moment Limiter
当吊重量大于额定起重量，吊臂仰角超出额定范围时，或幅度超出额定范围时，力限器会发出信号，限制危险动作的继续进行。When lifting load exceeds the total rated lifting capacity, and boom angle exceeds the rated limit, the load moment limiter will send a warning signal, and cut off crane movement to dangerous direction.

起升高度限位器 / Height Limiter
由主、副臂端部限位开关和重锤构成，当吊钩中心起升至距吊臂滑轮中心约710mm时，起升动作自动停止。It consists of boom and jib end limit switch and the weight, which will automatically stop the hoisting movement when hook block center is raised 710mm to boom sheave center.

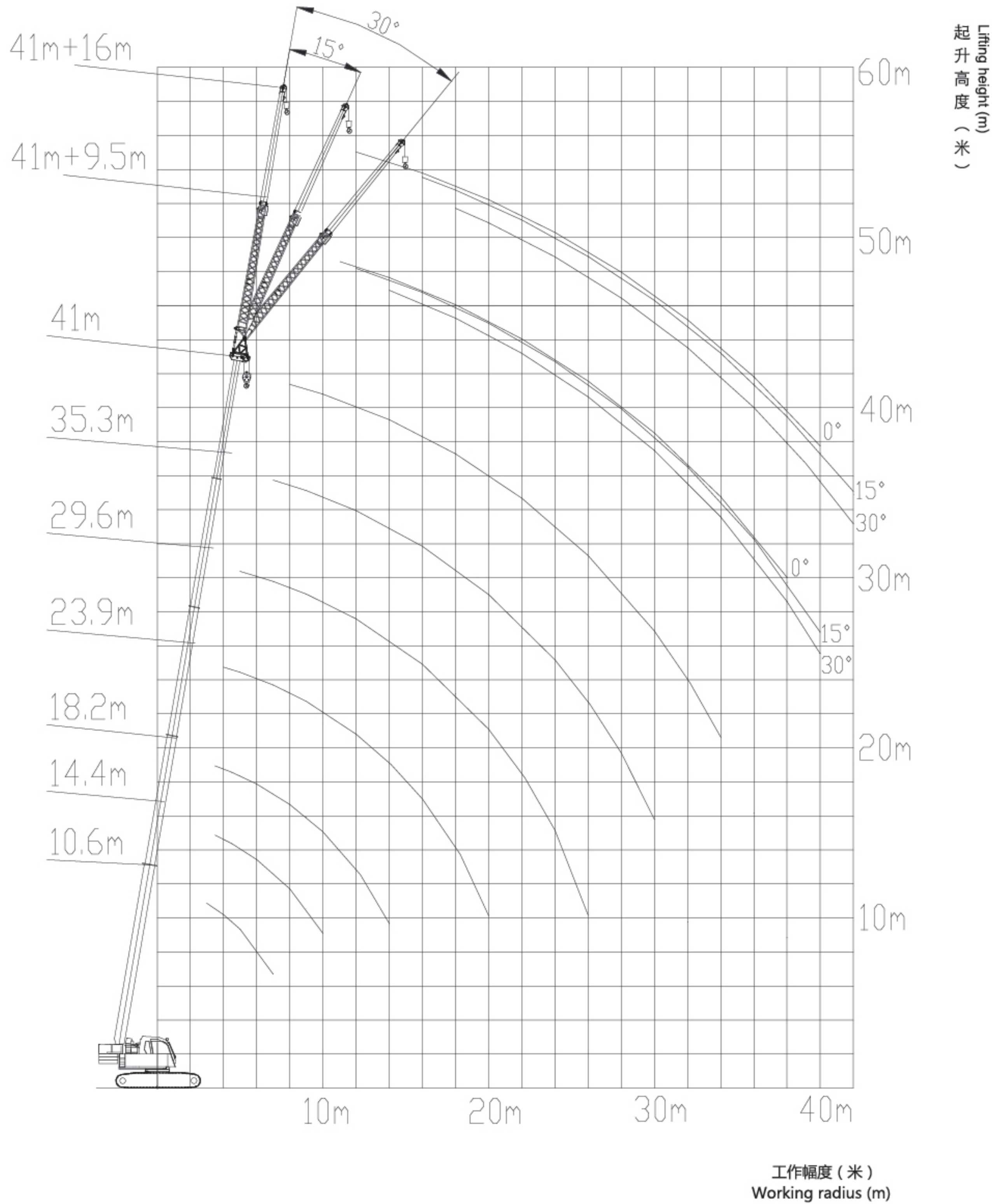
回转锁止机构 / Slewing Lock Mechanism
保证运输时转台有效锁止，防止其自由滑转。The device is used to lock the turntable during transport to avoid free swing.

三圈保护器 / Rope-end Limiter
当吊钩下降至卷扬钢丝绳剩余三至五圈时，落钩自动停止。The device is used to stop hook block lowering when the hook block lowering down and only three to five turns of wire rope left on the winch drum.

水平仪 /Level Meter
机棚前方装有水平仪，监控地面是否满足作业要求。A level meter is set on the front of engine hood,to monitor the ground surfacefor operation requirements.

作业范围
Working Area

主臂起重性能表
Boom Lifting Load Chart



主臂工况，履带全伸，静止吊载（不行走）
Boom condition, crawler track full extension, standstill lifting (no travel)

主臂性能,履带全伸，不行走，上车配重16.7t，360°作业 Boom condition, Crawler track full extension, No travel, Counterweight 16.7t, for 360° operation								
幅度Radius	10.6	14.4	18.2	23.9	29.6	35.3	41	幅度Radius
3	55							3
3.5	50	44	43					3.5
4	50	44	43	30.2				4
4.5	48	44	43	30.2				4.5
5	41.2	40.9	40.8	30.2	20			5
6	29.8	29.6	29.5	30.2	20			6
7	23	22.8	22.7	23.7	20	15		7
8		18.3	18.2	19.2	19.7	15	10	8
9		15.1	15	15.9	16.4	14	10	9
10		12.7	12.6	13.4	14	14	10	10
12			9.2	10	10.5	10.9	10	12
14			6.9	7.7	8.2	8.5	8.8	14
16				6.1	6.6	6.9	7.1	16
18				4.9	5.3	5.6	5.9	18
20				3.9	4.4	4.7	4.9	20
22					3.6	3.9	4.1	22
24					3	3.3	3.5	24
26					2.5	2.7	2.9	26
28						2.3	2.5	28
30						1.9	2.1	30
32							1.8	32
34							1.5	34

主臂起重性能表
Boom Lifting Load Chart

主臂工况，履带全伸，带载行驶，上车配重16.7t
Boom condition, crawler track full extension, travel with a load, superstructure counterweight 16.7t

主臂性能,履带全伸，带载行驶，上车配重16.7t，360°作业，低速稳定行驶 Boom condition, Crawler track full extension, Travel with a load, Superstructure counterweight 16.7t, 360° operation, Travel at a lower and stable speed.					
幅度Radius	10.6	14.4	18.2	23.9	幅度Radius
3	55.0				3
3.5	50.0	44.0	43.0		3.5
4	50.0	44.0	43.0	30.2	4
4.5	44.6	44.0	43.0	30.2	4.5
5	36.5	36.3	36.1	30.2	5
6	26.5	26.3	26.1	27.1	6
7	20.4	20.3	20.1	21	7
8		16.3	16.1	17	8
9		13.4	13.3	14.1	9
10		11.2	11.1	11.9	10
12			8.2	8.9	12
14			6.1	6.9	14
16				5.4	16
18				4.3	18
20				3.5	20

副臂起重性能表
Jib lifting Load Chart

副臂工况，履带全伸，静止吊载（不行走），上车配重16.7t
Jib condition, crawler track full extension, standstill lifting (no travel), superstructure counterweight 16.7t

副臂性能，履带全伸，不行走，上车配重16.7t，360°作业 Jib condition, Crawler track full extension, No travel, Superstructure counterweight 16.7t, 360° operation							
幅度Radius	主臂41m+副臂9.5m (Boom 41m + Jib 9.5m)			主臂41m+副臂16mBoom 41m + Jib 16m			幅度Radius
	Jib offset angle						
	0°	15°	30°	0°	15°	30°	
11	4.5						11
12	4.3	2.9		2.6			12
14	4.1	2.8	2.5	2.4			14
16	3.8	2.7	2.4	2.2	1.4		16
18	3.5	2.6	2.3	2	1.3	1.2	18
20	3.2	2.5	2.2	1.8	1.2	1.1	20
22	2.8	2.3	2	1.6	1.1	1	22
24	2.4	2.1	1.8	1.4	1	0.9	24
26	2.1	1.9	1.6	1.3	1	0.9	26
28	1.9	1.7	1.5	1.2	0.9	0.8	28
30	1.6	1.5	1.3	1.1	0.9	0.8	30
32	1.3	1.2	1.1	1	0.8	0.7	32
34	1.2	1.1	1	0.9	0.8	0.7	34
36	1.1	1	0.9	0.8	0.7	0.6	36
38	1	0.9	0.8	0.8	0.7	0.6	38
40		0.8	0.7	0.7	0.6	0.5	40
42					0.6	0.5	42

臂端单滑轮起重性能表
Boom Single Pulley
Lifting Load Chart

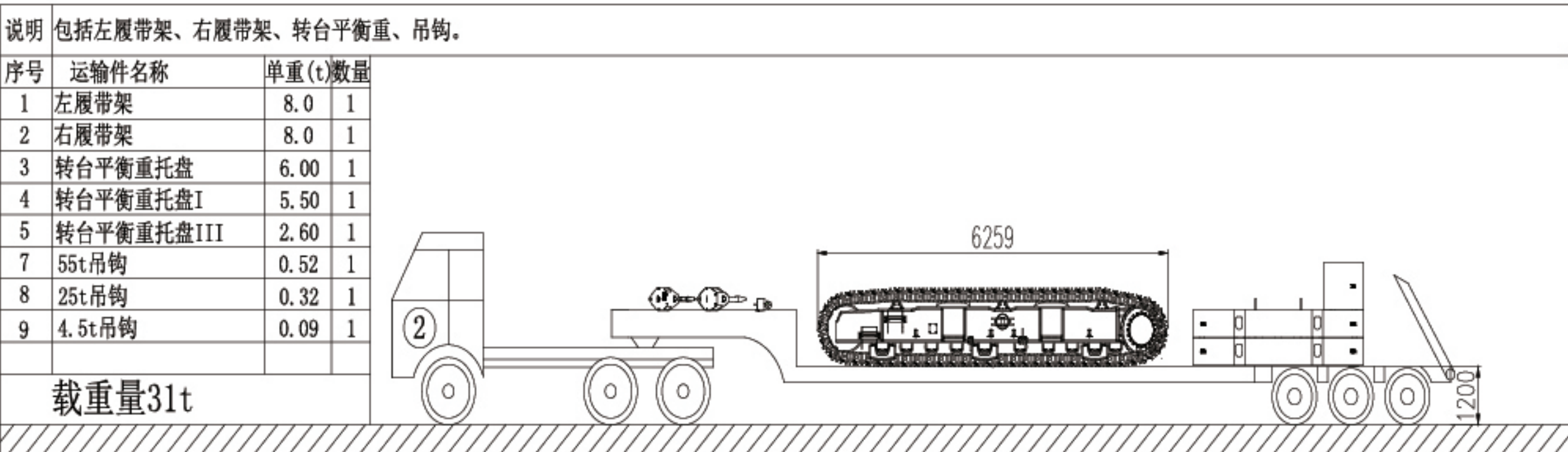
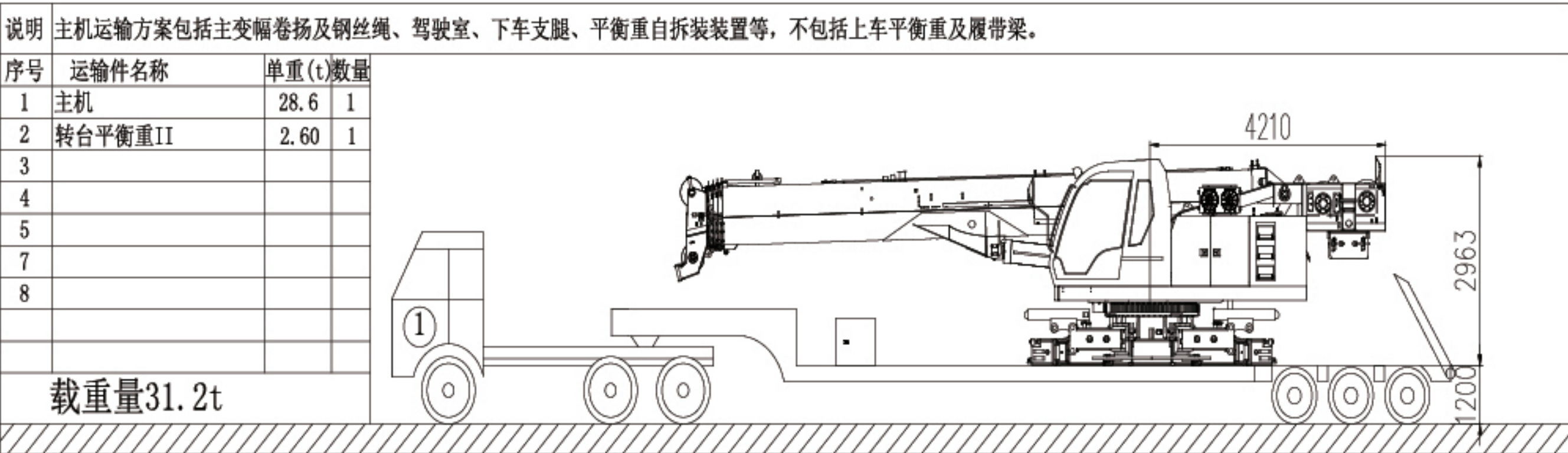
运输方案
Transport Planning

臂端滑轮工况,履带全伸，带载行走，上车配重16.7t
Boom single top condition, crawler track full extension, standstill lifting (no travel), superstructure counterweight 16.7t.

臂端滑轮性能,履带全伸，带载行走，上车配重16.7t，360°作业，低速稳定行驶 Boom single top condition, Crawler track full extension, Travel with a load, Superstructure counterweight 16.7t, 360° operation, Travel at a lower and stable speed.					
幅度Radius	10.6	14.4	18.2	23.9	幅度Radius
3	4.5				3
3.5	4.5	4.5	4.5		3.5
4	4.5	4.5	4.5	4.5	4
4.5	4.5	4.5	4.5	4.5	4.5
5	4.5	4.5	4.5	4.5	5
6	4.5	4.5	4.5	4.5	6
7	4.5	4.5	4.5	4.5	7
8		4.5	4.5	4.5	8
9		4.5	4.5	4.5	9
10		4.5	4.5	4.5	10
12			4.5	4.5	12
14			4.5	4.5	14
16				4.5	16
18				4.3	18
20				3.5	20

臂端滑轮工,履带全伸，静止吊载（不行走），上车配重16.7t
Boom single top condition, crawler track full extension, standstill lifting (no travel), superstructure counterweight 16.7t.

臂端滑轮性能,履带全伸，不行走，上车配重16.7t，360°作业 Boom single top condition, Crawler track full extension, No travel, Superstructure counterweight 16.7t, 360° operation								
幅度Radius	10.6	14.4	18.2	23.9	29.6	35.3	41	幅度Radius
3	4.5							3
3.5	4.5	4.5	4.5					3.5
4	4.5	4.5	4.5	4.5				4
4.5	4.5	4.5	4.5	4.5				4.5
5	4.5	4.5	4.5	4.5	4.5			5
6	4.5	4.5	4.5	4.5	4.5			6
7	4.5	4.5	4.5	4.5	4.5	4.5		7
8		4.5	4.5	4.5	4.5	4.5	4.5	8
9		4.5	4.5	4.5	4.5	4.5	4.5	9
10		4.5	4.5	4.5	4.5	4.5	4.5	10
12			4.5	4.5	4.5	4.5	4.5	12
14			4.5	4.5	4.5	4.5	4.5	14
16				4.5	4.5	4.5	4.5	16
18				4.5	4.5	4.5	4.5	18
20				3.9	4.4	4.5	4.5	20
22					3.6	3.9	4.1	22
24					3	3.3	3.5	24
26					2.5	2.7	2.9	26
30						1.9	2.1	30
32							1.8	32
34							1.5	34



- 说明：
- 上述表格中R和L分别代表幅度和臂长，单位为m。
 - 表中给定数值是在地面坚实、平整的状态下，起重机的额定起重量。表中工作幅度为吊载后的实际幅度。
 - 主臂臂长≤23.9m时，整机可带载行走，其余主臂工况以及副臂工况不允许带载和空载行走。
 - 带载行驶时要求履带必须为全伸状态。
 - 吊钩共三种，55t（主臂工况）、25t（主臂工况）、4.5t（副臂工况），各吊钩重量如下表：
- Note:
- R and L in the above tables respectively indicate the radius and the boom length, the unit is meter (m).
 - The values given in the tables are the rated lifting capacity for the crane set up on the solid and level ground. The radius in the table is the actual radius of the boom with a lifting load.
 - The crane can travel with a load with boom length ≤ 23.9m, the other boom and jib conditions do not allow travel with a load and travel with no-load.
 - Fully extended crawler track must be required for travel with a load.
 - Total three kinds of hook block, 55t hook block (for boom), 25t hook block (for boom), 4.5t hook block (for jib), the weight of each hook block is in the following table:

吊钩重量				Weight of hook block			
吊钩	55t	25t	4.5t	Hook block	55t	25t	4.5t
重量 (Kg)	520	315	93	Weight (kg)	520	315	93