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# XGC25T 伸缩臂履带起重机

TELESCOPIC CRAWLER CRANE



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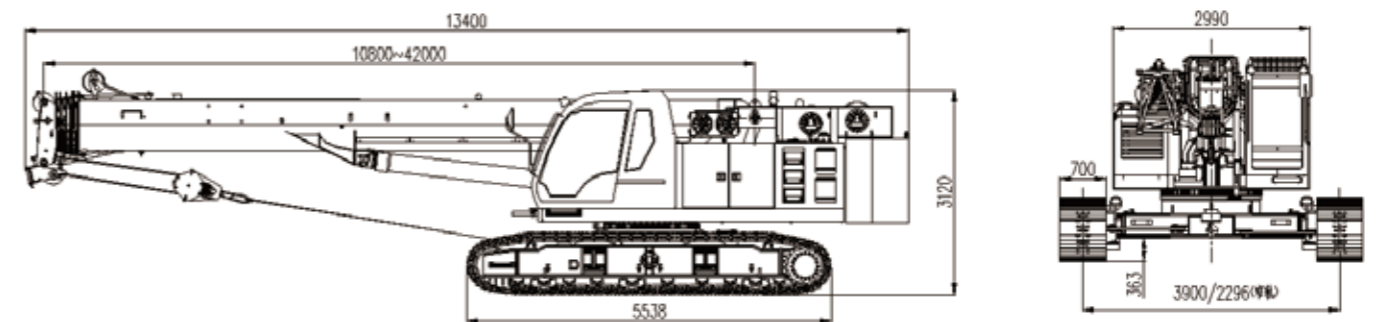
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## 主要技术参数 The Main Technical Parameters

类别 Type	项目 Items	单位 Unit	参数 Data	
尺寸参数 Dimension	整机全长 Overall length	mm	13400	
	整机全宽 (伸/缩) Overall width (extension/retraction)	mm	4600/2996	
	整机全高 Overall height	mm	3120	
	主、从动轮中心距 Central distance from drive roller to driven roller	mm	4727	
	履带板宽 Track shoe width	mm	700	
重量参数 Weight	行驶状态总质量 Total mass in travel state	t	41.2	
行驶参数 Travel	最高行驶速度 Max. travel speed with no load	km/h	3	
	最小离地间隙 Min. ground clearance	mm	363	
	最大爬坡能力 Max. grade-ability	%	45	
	接地比压 Ground pressure	MPa	0.06	
	耳旁噪声 Noise at ear in the cab	dB ( A )	80	
动力参数 Power	发动机型号 Engine model	-	WP7.270	
	发动机额定功率 Engine rated output power	kW	199	
	发动机额定转速 Engine rated rotation speed	r/min	2000	
	发动机排放标准 Engine emission standard	-	非道路国三排放	
容积参数 Capacity	液压油箱容积 Hydraulic oil tank	L	900	
	燃油箱容积 Fuel tank	L	500	
主要性能参数 Main Performance	最大额定总起重量 Max. rated lifting capacity	t	25	
	最小额定幅度 Min. rated working radius	m	3	
	转台尾部回转半径 Slewing radius at turntable tail	mm	4000	
	最大起重力矩 Max. load moment	基本臂 Base boom	kN·m	1182.5
	起升高度 Lifting height	基本臂 Base boom	m	10.5
		最长主臂 Max. length boom	m	41.3
		最长主臂+副臂 Max. length boom + Jib	m	49
	起重臂长度 Boom length	基本臂 Base boom	m	10.8
		最长主臂 Max. length boom	m	42
		最长主臂+副臂 Max. length boom + Jib	m	51
副臂安装角 Jib offset angle		°	0、15、30	
工作速度 Working Speed	主臂起臂时间 Boom raising time	s	35	
	主臂全伸时间 Boom full extension time	s	70	
	最大回转速度 Max. slewing speed	r/min	2.2	
	起升速度(空载四层) Hoisting speed( no load at the 4th layer)	主起升机构 Main winch 副起升机构 Auxiliary winch	m/min m/min	140 140

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.



XGC25T伸缩臂履带起重机总体外形尺寸图  
XGC25TA telescopic crawler crane outline dimension

## 详细介绍 Brief Introduction

### 上车 / Crane Superstructure

#### 发动机 / Engine

配置潍柴WP7.270发动机（非道路三阶段）。  
额定功率/转速：199kW/2000rpm。空滤器采用曼胡默尔空滤器，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500L。

Equipped with Weichai engine (EU Stage IIIA), rated power / speed: 199kW/2000rpm. Mann Hummel air filter, reliable and stable dust-proof ensure the machine smooth and long time running.  
Fuel tank: effective capacity 500L.

#### 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：16mm/210m。Main winch rope: 16mm / 210m.  
副卷钢丝绳：16mm/110m。Auxiliary winch rope: 16mm / 110m.  
额定单绳拉力：5t。Rated single line pull: 5t.

#### 变幅机构 / Luffing Gear

变幅机构描述：单缸前支变幅  
主臂起升时间≤35S  
Luffing winch description: single cylinder front support luffing.  
Boom lifting time ≤ 35S.

#### 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齿圈外啮合进行回转，具有自动滑转功能，可调整臂架起重作用线与重物为铅直线，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：0~2.2r/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: 0~2.2r/min.

#### 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，通过力限制器对当前工况的分析，当吊重量、仰角或幅度任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 angle 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.

#### 液压系统 / Hydraulic System

液压比例阀控制，控制精准，微动性好，调速范围广。起重作业伸缩、变幅及起升液压系统与行驶作业液压系统共用一恒功率带负载敏感的A11VLO190单泵，回转系统和辅助系统分别由独立泵供油。  
采用成熟可靠的液压元件，成熟稳定的液压传动控制技术。操作简单，维修维护方便。与电气系统相配合，保证主机安全稳定。

The system is controlled by hydraulic proportional valve, with precise control, good inching movement and wide speed range. During lifting operation, the telescoping, luffing and hoist hydraulic system and the travel hydraulic system share one constant-power and load-sensitive A11VLO190 single pump. And the oil for slewing system and auxiliary system are supplied by separate pumps.

Hydraulic components use mature and reliable hydraulic units, mature and stable hydraulic drive control technology. Simple operation, easy maintenance and repair, combined with electrical system to ensure the machine safety and stability.

### 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。

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。

By travel motor, speed reducer, drive sprocket to achieve the machine walk in straight-line or turn around.

#### 吊钩 / Hook Block

名称 Name	25t吊钩 25t hook block	副起重吊钩 (3t) Auxiliary hook block (3t)
数量Qty.	1	1
备注Remark	标配standard	标配standard

#### 平衡重 / Counterweight

零件名称Parts name	重量(吨)Weight (t)	数量Qty.
平衡重Counterweight	11	1

### 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，力限制器会发出信号，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.

#### 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 surface for operation requirements.

#### 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。

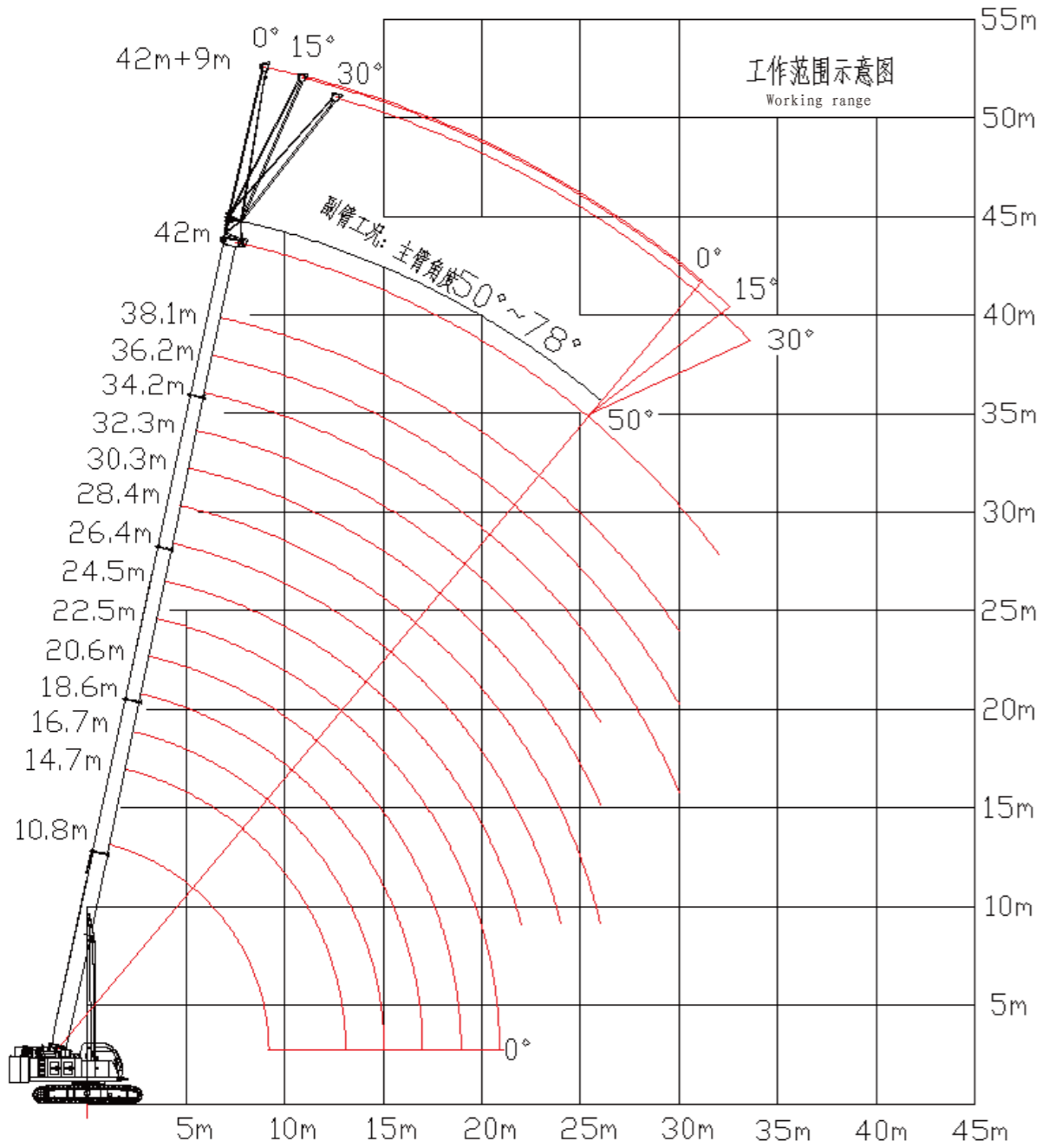
The device is used to lock the turntable during transport to avoid free swing.

#### 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.

**作业范围**  
Working Area



注: 部分臂长具有小角度起重性能, 适合于在高度受限的工作场所施工, 如厂房、仓库、隧道等内部作业。  
Note: some boom length can be used to lift load with small angles, it suitable for the construction in height-restricted workplace, such as workshop, warehouse, tunnel and other indoor operations.

**主臂起重性能表**  
Boom Lifting Load Chart

XCT25T主臂性能表 (11t配重、宽轨、静止吊重)  
XCT25T Boom Lifting Capacity Table (11t counterweight, wide gauge, static loading)

幅度Radius	10.8	14.7	16.7	18.6	20.6	22.5	24.5	26.4	28.4	30.3	32.3	34.2	36.2	38.1	42
3	25	25	19.6												
3.5	25	25	19.6												
4	24.8	24	19.6	20.4	19	17.8									
4.5	23.6	23	19.6	19.1	18.9	17.3	17.1								
5	23	21.5	19.6	18.1	17.9	16.8	16.4	15.1							
5.5	21.5	19.4	19	17.1	17.1	15.9	15.5	15.1	10.6						
6	19	17.5	18	16.2	16.3	15.1	14.6	14.7	10.3	11.9					
6.5	17	15.9	16.2	15.0	15.5	14.3	13.9	14	10	11.5	10.9	8.1			
7	15	14.3	15	13.8	14.9	13.6	13.3	13.3	9.7	11	10.9	8	8.6		
8	12	11.4	12.5	11.2	12.4	12.7	11.4	12.1	9.3	10.5	10.1	7.9	8.5	6.6	
9		9.1	10.3	8.8	10.4	10.8	9.5	10.3	8.7	9.3	9.4	7.3	8.4	6.6	
10		7.4	8.8	7.6	8.7	9	8.1	8.9	8.4	8.3	8.7	6.9	8.1	6.4	5.8
11		6.3	7.5	6.3	7.3	7.8	7	7.7	7.5	7.2	7.6	6.4	7.1	6.1	5.7
12		5.1	6.4	5.3	6.3	6.7	6	6.7	6.7	6.3	6.7	5.8	6.3	6	5.5
13			5.5	4.4	5.4	6.1	5.2	5.9	6.1	5.5	5.9	5.5	5.5	5.6	5.3
14			4.9	3.7	4.7	5.3	4.4	5.1	5.5	4.9	5.3	5.1	4.9	5.2	4.8
15				3.1	4.1	4.6	3.8	4.5	4.9	4.2	4.7	4.8	4.4	4.7	4.3
16				2.6	3.5	4.2	3.3	4	4.4	3.7	4.2	4.5	3.9	4.2	3.9
18					2.5	3.2	2.4	3.1	3.5	2.9	3.4	3.5	3.1	3.5	3.1
20						2.6	1.8	2.4	2.9	2.2	2.7	3	2.5	2.9	2.6
22							1.3	1.8	2.4	1.6	2.1	2.6	1.9	2.3	2.1
24								1.2	1.9	1.2	1.7	2.1	1.5	1.8	1.7
26									1.6	0.9	1.3	1.7	1.1	1.5	1.3
28												1.5	0.9	1.2	1
30												1.2	0.6	0.9	0.8
32															0.6
25t吊钩25t hook	0.26t														
倍率Parts of line	8	8	8	8	6	6	6	6	4	4	4	4	4	4	3
2节臂 The 2nd boom section	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	50%	0%	100%	50%	100%
3/4/5节臂 The 3rd, 4th, 5th boom sections	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	75%	100%	75%	100%	100%



**臂端单滑轮起重性能表**  
**Boom single top lifting capacity table**

**XCT25T臂端单滑轮性能表 (11t配重、宽轨、静止吊重)**  
**XCT25T Boom Single Top Lifting Capacity Table (11t counterweight, wide gauge, static loading)**

幅度Radius	10.8	14.7	16.7	18.6	20.6	22.5	24.5	26.4	28.4	30.3	32.3	34.2	36.2	38.1	42
3	3	3	3												
3.5	3	3	3												
4	3	3	3	3	3	3									
4.5	3	3	3	3	3	3	3								
5	3	3	3	3	3	3	3	3							
5.5	3	3	3	3	3	3	3	3	3						
6	3	3	3	3	3	3	3	3	3	3					
6.5	3	3	3	3	3	3	3	3	3	3	3				
7	3	3	3	3	3	3	3	3	3	3	3	3			
8	3	3	3	3	3	3	3	3	3	3	3	3	3		
9		3	3	3	3	3	3	3	3	3	3	3	3	3	
10		3	3	3	3	3	3	3	3	3	3	3	3	3	3
11		3	3	3	3	3	3	3	3	3	3	3	3	3	3
12		3	3	3	3	3	3	3	3	3	3	3	3	3	3
13			3	3	3	3	3	3	3	3	3	3	3	3	3
14			3	3	3	3	3	3	3	3	3	3	3	3	3
15				3	3	3	3	3	3	3	3	3	3	3	3
16				2.6	3	3	3	3	3	3	3	3	3	3	3
18					2.5	3	2.4	3	3	2.9	3	3	3	3	3
20						2.6	1.8	2.4	2.9	2.2	2.7	3	2.5	2.9	2.6
22							1.3	1.8	2.4	1.6	2.1	2.6	1.9	2.3	2.1
24								1.2	1.9	1.2	1.7	2.1	1.5	1.8	1.7
26									1.6	0.9	1.3	1.7	1.1	1.5	1.3
28												1.5	0.9	1.2	1
30													1.2	0.6	0.8
32															0.6
3t吊钩3t hook	0.06t														
倍率Parts of line	1														
2节臂 The 2nd boom section	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	50%	0%	100%	50%	100%
3/4/5节臂 The 3rd, 4th, 5th boom sections	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	75%	100%	75%	100%	100%

**副臂起重性能表**  
**Jib lifting capacity table**

**XGC25T副臂性能表 (11t配重、宽轨、静止吊重)**  
**XGC25T Jib Lifting Capacity Table (11t counterweight, wide gauge, static loading)**

42+9m			
主臂仰角 / 副臂安装角 ° Boom angle / Jib offset angle °	0	15	30
78	3	2.8	2.1
75	3	2.5	1.9
72	2.9	2.3	1.8
70	2.7	2.2	1.7
65	2.2	2	1.6
60	1.4	1.3	1.3
55	0.9	0.9	0.8
50	0.6	0.5	0.5
倍率Parts of line	1		
3t吊钩3t hook	0.06t		

**运输方案**  
**Transport plan**

**方案：整机一体运输 / Transport plan : Transport the crane as a whole**

整机一体运输，需1辆车，示意图如下：

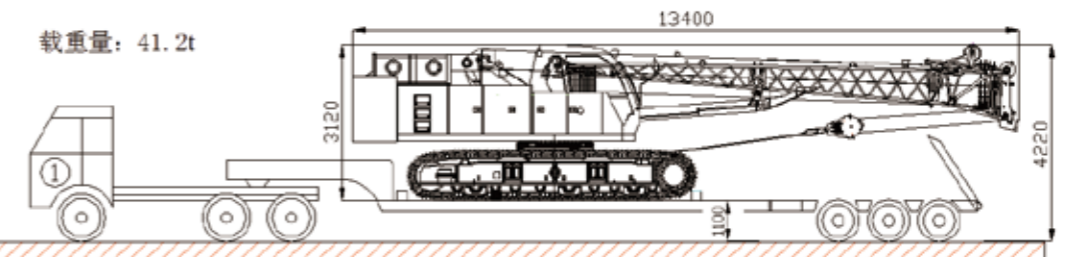
The whole crane is transported together, 1 vehicle is needed, as shown in the figure below:

**(二) 运输示意图: (1辆车)**

1. 整机重约41.2t，整机整体运输，  
 尺寸：13.4×3×3.12 m

注：主机履带梁前后应该加垫木防止主机在运输过程中的滑动

载重量：41.2t



- 注：1. 以上参数均为理论设计值，由于产品的制造过程中难免有细微差别，加之产品不断改进，部分零部件规格及重量上会有些许不同。以上数据仅供参考。  
 2. 运输车辆信息仅供参考。  
 3. 运输时，主机（零部件）要固定牢靠。

Note: 1. The above parameters are all theoretical design values. Due to the slight differences occurred in the manufacturing process and the continuous improvement of the product, the specifications and weights of some parts may be slightly different. The above data are for reference only.  
 2. The information for the transport vehicles are for reference only.  
 3. During the transportation, the crane (parts) must be fixed firmly.