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# XGC25T 伸缩臂履带起重机

TELESCOPIC CRAWLER CRANE



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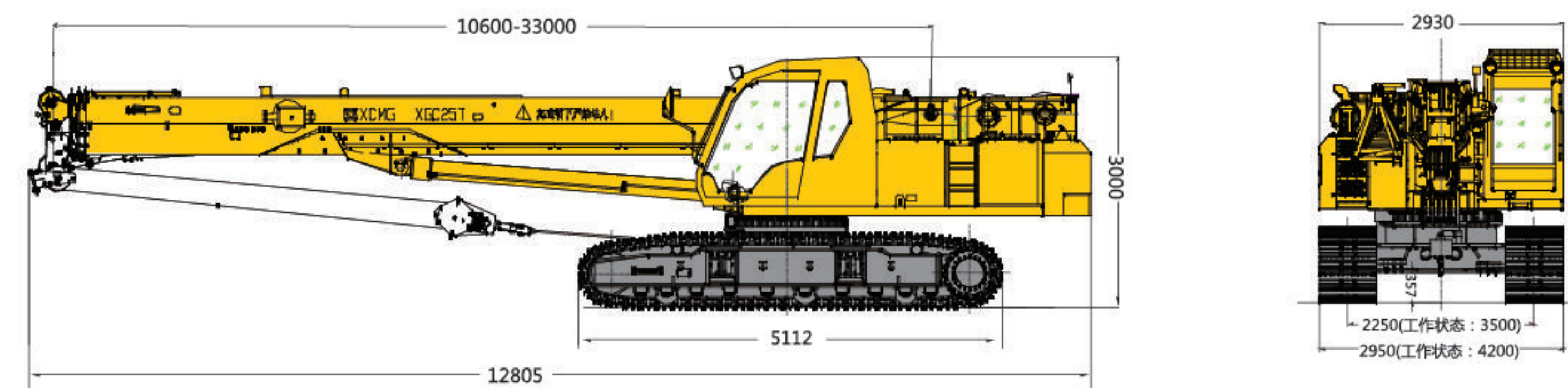
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## 主要技术参数 The Main Technical Parameters

| 类别 Type                        | 项目 Items   | 单位 Unit                        | 参数 Data           |      |
|--------------------------------|--|--------------------------------|-------------------|------|
| 尺寸参数<br>Dimension              | 整机全长 Overall length  | mm                             | 12805             |      |
|                                | 整机全宽 (伸/缩) Overall width (extension/retraction)              | mm                             | 4200/2950         |      |
|                                | 整机全高 Overall height  | mm                             | 3000              |      |
|                                | 主、从动轮中心距 Central distance from drive roller to driven roller | mm                             | 4330              |      |
|                                | 履带板宽 Track shoe width  | mm                             | 700               |      |
| 重量参数<br>Weight                 | 行驶状态总质量<br>Total mass in travel state                        | kg                             | 34960             |      |
| 行驶参数<br>Travel                 | 空载行驶速度 Max. travel speed with no load                        | km/h                           | 2.6               |      |
|                                | 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                             | 357               |      |
|                                | 最大爬坡能力 Max. grade-ability                                    | %                              | 45                |      |
|                                | 接地比压 Ground pressure   | MPa                            | 0.06              |      |
| 动力参数<br>Power                  | 耳旁噪声 Noise at ear in the cab                                 | dB ( A )                       | 80                |      |
|                                | 发动机型号 Engine model   | -                              | QSB6.7            |      |
|                                | 发动机额定功率 Engine rated output power                            | kW                             | 142               |      |
|                                | 发动机额定转速 Engine rated rotation speed                          | r/min                          | 1800              |      |
| 容积参数<br>Capacity               | 发动机排放标准 Engine emission standard                             | -                              | 非道路 EU Stage IIIA |      |
|                                | 液压油箱容积 Hydraulic oil tank                                    | L                              | 400               |      |
|                                | 燃油箱容积 Fuel tank  | L                              | 450               |      |
| 主要性能参数<br>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                             | 3726              |      |
|                                | 最大起重力矩<br>Max. load moment                                   | 基本臂 Base boom                  | kN-m              | 970  |
|                                |  | 最长主臂 Max. length boom          | kN-m              | 576  |
|                                | 起升高度<br>Lifting height                                       | 基本臂 Base boom                  | m                 | 9.9  |
|                                |  | 最长主臂 Max. length boom          | m                 | 32.3 |
|                                |  | 最长主臂+副臂 Max. length boom + Jib | m                 | 39.8 |
|                                | 起重臂长度<br>Boom length   | 基本臂 Base boom                  | m                 | 10.6 |
|                                |  | 最长主臂 Max. length boom          | m                 | 33   |
| 最长主臂+副臂 Max. length boom + Jib |  | m                              | 41.15             |      |
| 副臂安装角 Jib offset angle         | °  | 0、15、30                        |                   |      |
| 工作速度<br>Working Speed          | 主臂起臂时间 Boom raising time                                     | s                              | 48                |      |
|                                | 主臂全伸时间 Boom full extension time                              | s                              | 56                |      |
|                                | 最大回转速度 Max. slewing speed                                    | r/min                          | 2.5               |      |
|                                | 起升速度 (空载四层)<br>Hoisting speed (no load at the 4th layer)     | 主起升机构 Main winch               | m/min             | 140  |
|                                |  | 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-C190发动机 (EU Stage IIIA)。额定功率/转速: 142kW/1800rpm。空滤器采用曼胡默尔空滤器, 可靠的除尘效果保证主机平稳长时间运行。  
燃油箱: 有效容积450L。

Dongfeng Cummins QSB6.7-C190 engine (EU Stage IIIA), rated power / speed: 142kW/1800rpm., Mann Hummel air filter, reliable and stable dust-proof ensure the machine smooth and long time running.  
Fuel tank: effective capacity 450L.

#### 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: 14mm/160m。Main winch rope: 14mm / 160m.  
副卷钢丝绳: 14mm/95m。Auxiliary winch rope: 14mm / 95m.  
额定单绳拉力: 2.8t。Rated single line pull: 2.8t.

#### 变幅机构 / Luffing Gear

变幅机构描述: 单缸前支变幅  
主臂起升时间 ≤ 48S  
Luffing winch description: single cylinder front support luffing.  
Boom lifting time ≤ 48S.

#### 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轮外啮合进行回转, 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: 0~2.5r/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: 0~2.5r/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, 通过力矩限制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 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

液压先导控制, 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A8V107双泵, 回转系统和先导系统分别由排量为40ml/r和10ml/r的齿轮泵供油。  
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。

Hydraulic pilot control, precision control, good fine motion, and wide speed range. the hydraulic system for lifting operations of telescoping, luffing and lifting, and the travel hydraulic system share one constant power A8V107 twin-pump, slewing system and pilot system is respectively supplied oil by displacement 40ml/r, and 10ml/r gear pump oil.  
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.

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架的扩张与收缩。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。空载行驶速度为0~2.6 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, white no-load travel speed 0~2.6km/h, with a load travel speed 0~1.5km/h.

#### 吊钩 / Hook Block

| 名称<br>Name | 25t吊钩<br>25t hook block | 副起重吊钩 (2.8t)<br>Auxiliary hook block (2.8t) |
|------------|-------------------------|---|
| 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 | 9               | 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, 力矩限制器会发出信号, 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.

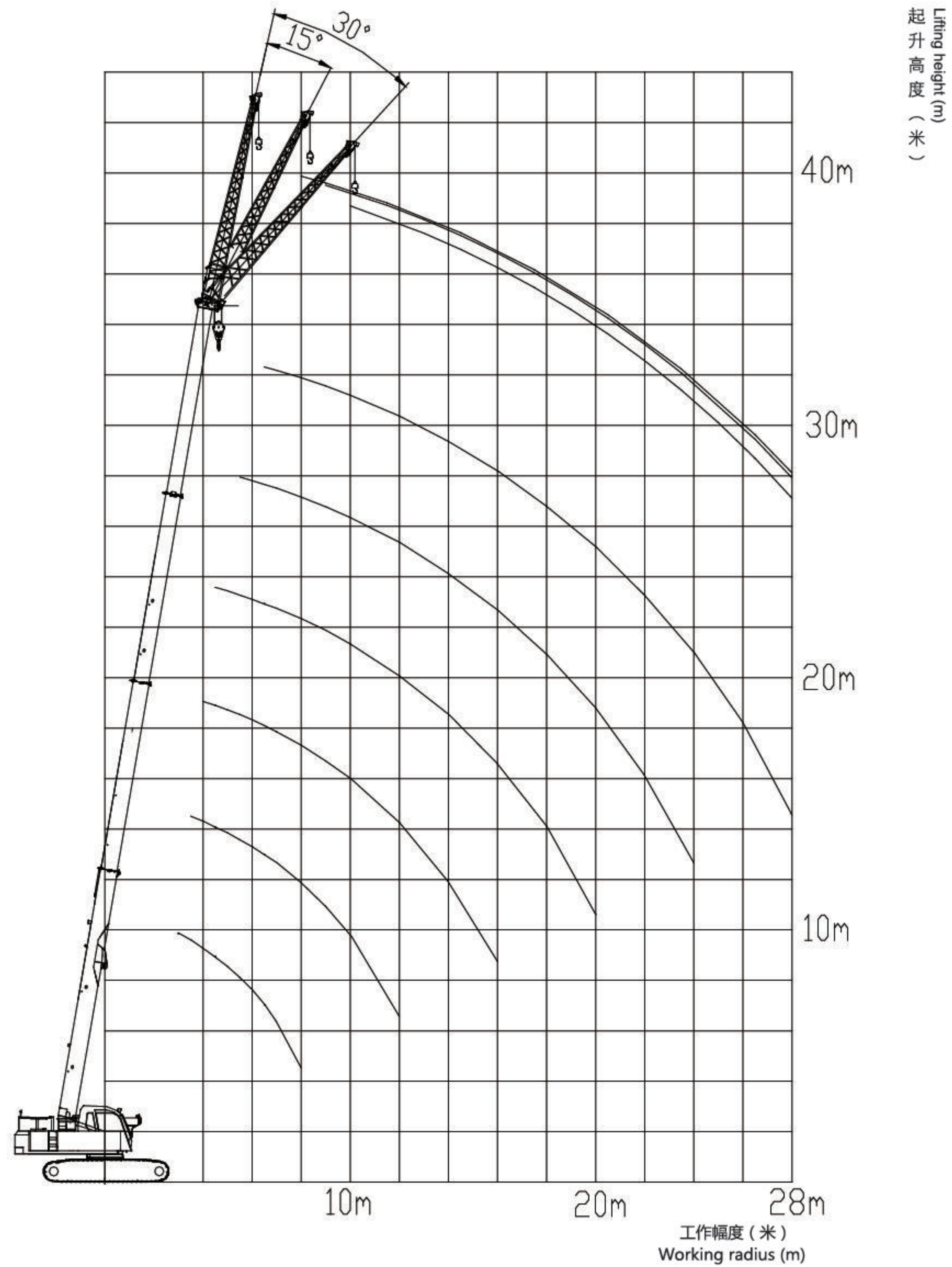
#### 回转锁止机构 / Slewing Lock Mechanism

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.





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），配重9t，360°作业  
Boom condition, crawler track full extension, lifting standstill (no travel), Counterweight 9t, for 360° operation

| 幅度Radius           | 10.6                  | 15.1 | 19.6 | 24   | 28.5 | 33   | 幅度Radius           |
|--------------------|-----------------------|------|------|------|------|------|--------------------|
| 3                  | 25                    |      |      |      |      |      | 3                  |
| 3.5                | 25                    | 17   |      |      |      |      | 3.5                |
| 4                  | 24                    | 17   | 16.9 |      |      |      | 4                  |
| 4.5                | 22                    | 17   | 16   | 12.2 |      |      | 4.5                |
| 5                  | 18.9                  | 17   | 15.2 | 11.6 |      |      | 5                  |
| 5.5                | 16.1                  | 16.5 | 14.5 | 11.1 | 9.1  |      | 5.5                |
| 6                  | 14                    | 14.4 | 13.8 | 10.7 | 8.7  |      | 6                  |
| 6.5                | 12.2                  | 12.6 | 12.9 | 10.2 | 8.4  | 7.4  | 6.5                |
| 7                  | 10.9                  | 11.2 | 11.4 | 9.8  | 8.1  | 7.2  | 7                  |
| 8                  | 8.7                   | 9.1  | 9.3  | 9.1  | 7.5  | 6.6  | 8                  |
| 9                  |                       | 7.6  | 7.8  | 7.9  | 7    | 6.1  | 9                  |
| 10                 |                       | 6.4  | 6.6  | 6.7  | 6.5  | 5.7  | 10                 |
| 12                 |                       | 4.8  | 4.9  | 5    | 5.1  | 4.9  | 12                 |
| 14                 |                       |      | 3.8  | 3.9  | 4    | 4    | 14                 |
| 16                 |                       |      | 3    | 3.1  | 3.2  | 3.2  | 16                 |
| 18                 |                       |      |      | 2.5  | 2.6  | 2.6  | 18                 |
| 20                 |                       |      |      | 2    | 2.1  | 2.2  | 20                 |
| 22                 |                       |      |      |      | 1.7  | 1.8  | 22                 |
| 24                 |                       |      |      |      | 1.4  | 1.5  | 24                 |
| 26                 |                       |      |      |      |      | 1.2  | 26                 |
| 28                 |                       |      |      |      |      | 0.9  | 28                 |
| 吊钩Hook block       | 25吨Hook block (299kg) |      |      |      |      |      | 吊钩Hook block       |
| 倍率Parts of line    | 10                    | 9    | 7    | 5    | 4    | 3    | 倍率Parts of line    |
| 仰角最小Min. angle (°) | 28.4                  | 28.7 | 28.9 | 29.2 | 29.4 | 29.7 | 仰角最小Min. angle (°) |
| 仰角最大Max. angle (°) | 68.5                  | 73.9 | 76.9 | 78.8 | 79.2 | 79.5 | 仰角最大Max. angle (°) |
| 二节臂2nd section     | 0                     | 20%  | 40%  | 60%  | 80%  | 100% | 二节臂2nd section     |
| 三节臂3rd section     | 0                     | 20%  | 40%  | 60%  | 80%  | 100% | 三节臂3rd section     |
| 四节臂4th section     | 0                     | 20%  | 40%  | 60%  | 80%  | 100% | 四节臂4th section     |



## 主臂起重性能表 Boom Lifting Load Chart

主臂工况，履带全伸，吊载行驶，配重9t，低速稳定行驶  
Boom condition, crawler track full extension, travel with a load, Counterweight 9t, Travel with stable speed

| 幅度Radius | 10.6                     | 15.1 | 19.6 | 幅度Radius |
|----------|--------------------------|------|------|----------|
| 3        | 25                       |      |      | 3        |
| 3.5      | 25                       | 17   |      | 3.5      |
| 4        | 23.7                     | 17   | 16.9 | 4        |
| 4.5      | 19.1                     | 17   | 16   | 4.5      |
| 5        | 15.8                     | 16.2 | 15.2 | 5        |
| 5.5      | 13.5                     | 13.8 | 14   | 5.5      |
| 6        | 11.7                     | 12   | 12.2 | 6        |
| 6.5      | 10.2                     | 10.6 | 10.7 | 6.5      |
| 7        | 9.1                      | 9.4  | 9.6  | 7        |
| 8        | 7.3                      | 7.6  | 7.8  | 8        |
| 9        |                          | 6.3  | 6.5  | 9        |
| 10       |                          | 5.4  | 5.5  | 10       |
| 12       |                          | 4    | 4.1  | 12       |
| 14       |                          |      | 3.2  | 14       |
| 16       |                          |      | 2.5  | 16       |
| 吊钩<br>倍率 | 25t钩Hook block ( 299kg ) |      |      | 吊钩<br>倍率 |
|          | 10                       | 9    | 7    |          |
| 仰角最小 (°) | 28.4                     | 28.7 | 28.9 | 仰角最小 (°) |
| 仰角最大 (°) | 68.5                     | 73.9 | 76.9 | 仰角最大 (°) |
| 二节臂      | 0                        | 20%  | 40%  | 二节臂      |
| 三节臂      | 0                        | 20%  | 40%  | 三节臂      |
| 四节臂      | 0                        | 20%  | 40%  | 四节臂      |

## 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）  
Jib condition, crawler track full extension, lifting standstill (no travel)

| 履带全伸，配重9t，360°作业，主臂长度33m，副臂长度8.15m<br>Crawler track full extension, Counterweight 9t, for 360°operation, Boom length 33m, Jib length 8.15m |                            |                                |                            |                                |                            |                                |          |
|--|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------|
| 副臂安装角  |                            |                                |                            |                                |                            |                                |          |
| 幅度Radius   | 0°                         |                                | 15°                        |                                | 30°                        |                                | 幅度Radius |
|  | 起重量(t)<br>Lifting load (t) | 起升高度 (m)<br>Lifting height (m) | 起重量(t)<br>Lifting load (t) | 起升高度 (m)<br>Lifting height (m) | 起重量(t)<br>Lifting load (t) | 起升高度 (m)<br>Lifting height (m) |          |
| 8  | 2.6                        | 39.8                           |                            |                                |                            |                                | 8        |
| 9  | 2.45                       | 39.6                           | 2.1                        | 39.5                           |                            |                                | 9        |
| 10   | 2.4                        | 39.3                           | 2                          | 39.2                           | 1.4                        | 38.6                           | 10       |
| 12   | 2.4                        | 38.6                           | 1.85                       | 38.5                           | 1.3                        | 38                             | 12       |
| 14   | 2.3                        | 37.8                           | 1.65                       | 37.7                           | 1.25                       | 37.1                           | 14       |
| 16   | 2.05                       | 36.9                           | 1.5                        | 36.8                           | 1.15                       | 36.2                           | 16       |
| 18   | 1.95                       | 35.8                           | 1.4                        | 35.7                           | 1.1                        | 35.1                           | 18       |
| 20   | 1.75                       | 34.7                           | 1.3                        | 34.5                           | 1.1                        | 33.9                           | 20       |
| 22   | 1.6                        | 33.3                           | 1.2                        | 33.2                           | 1.05                       | 32.5                           | 22       |
| 24   | 1.3                        | 31.8                           | 1.1                        | 31.6                           | 1                          | 30.9                           | 24       |
| 26   | 1                          | 30                             | 1.05                       | 29.9                           | 0.95                       | 29.1                           | 26       |
| 28   | 0.8                        | 28.1                           | 0.7                        | 27.9                           | 0.7                        | 27.1                           | 28       |

说明：

- 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≤19.6m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。
- 吊钩共两种，25t（主臂工况）、2.8t（副臂工况），各吊钩重量如右表：

| 吊钩重量 |       |        |
|------|-------|--------|
| 型号   | 25t吊钩 | 2.8t吊钩 |
| 重量   | 299kg | 58kg   |

Note:

- The values given in the table are the rated lifting capacity for the crane set up on the solid and level ground, rated lifting cranes. 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 ≤ 19.6m, 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 two kinds of hook block, 25t hook block (for boom), 2.8t hook block (for jib), the weight of each hook block is in the right table:

| Weight of hook block |                |                 |
|----------------------|----------------|-----------------|
| Type                 | 25t hook block | 2.8t hook block |
| Weight               | 299kg          | 58kg            |



