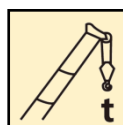
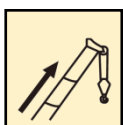
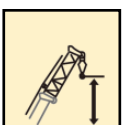


# QY50KH\_1汽车起重机 / Truck Crane

## 技术规格书 Technical specifications

 50t

 45m

 54.1m



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1st edition, April 2023

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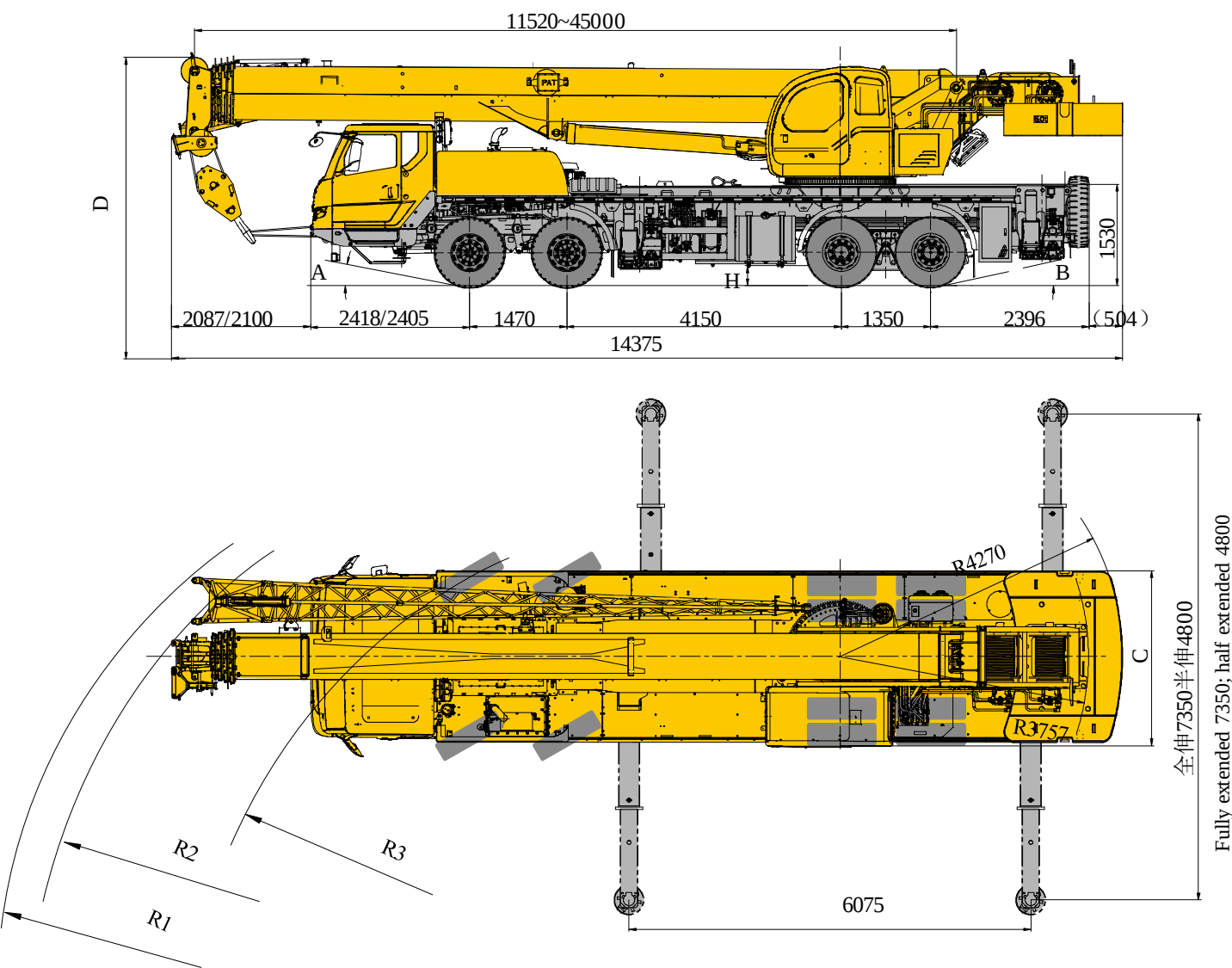
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# 尺寸参数

## Dimensions



|                             | A   | B   | C    | D    | R1    | R2    | R3    | H   |
|-----------------------------|-----|-----|------|------|-------|-------|-------|-----|
| 12.00R22.5 ;<br>315/80R22.5 | 11° | 12° | 2650 | 3480 | 15000 | 14500 | 12000 | 250 |

备注：  
当配置齐星驾驶室时，前伸:2087mm，前悬为2418mm；  
当配置徐工汽车驾驶室时，前伸:2100mm，前悬为2405mm。

Remark:  
Front extension: 2087 mm, front overhang: 2418 mm (when equipped with Qixing driver's cab);  
Front extension: 2100 mm, front overhang: 2405 mm (when equipped with XCMG Automobile driver's cab).

技术规格

Technical specifications



底盘

|      |                                                                                                                     |   |
|------|---------------------------------------------------------------------------------------------------------------------|---|
| 车架   | 徐工设计、制造，全覆盖式走台板，防扭转箱型结构，高强度钢材制造。                                                                                    | ● |
| 支腿   | 4支腿，H形布置，采用双级水平支腿，水平伸缩和垂直伸缩由液压控制，底盘两侧装有手动操纵手柄，且装有水平仪、和调速按钮，且垂直支腿带有液压双向锁。<br>支脚盘尺寸：Φ450mm<br>最大起重量时支腿反力：494kN        | ● |
| 支腿测长 | 实时监测支腿长度                                                                                                            | ○ |
| 发动机  | 直列六缸水冷电控柴油发动机，上柴；SC9DF340Q5，额定功率251kW/1900rpm，最大扭矩1450Nm/（1100~1400）rpm，最大基准扭矩：1450N.m；国五排放标准。燃油箱容积：350L；尿素箱容积：35L。 | ● |
| 变速箱  | 法士特9档变速箱，机械操纵，带同步器。                                                                                                 | ● |
| 车桥   | 名牌厂家高强度车桥，1,2桥转向，3,4桥驱动。                                                                                            | ● |
| 悬挂   | 前桥采用钢板弹簧。后桥采用橡胶弹簧悬架加V型推力杆结构，增加底盘行驶稳定性，减少轮胎的磨损。                                                                      | ● |
| 轮胎   | 12个轮胎，1个备胎，<br>轮胎规格：一二桥315/80R22.5；三四桥12R22.5                                                                       | ● |
| 制动   | 行车制动：双回路气压制动，作用于所有车轮。<br>驻车制动：弹簧储能制动，作用于3,4轴车轮。<br>辅助制动：发动机排气制动和缓速制动。                                               | ● |
| 转向   | 1、2桥机械转向+液压助力。                                                                                                      | ● |
| 驾驶室  | 配置大视野的前挡风安全玻璃、电动雨刮器，电动玻璃升降器，带有冷暖空调，可实现吹面吹脚，除霜、除雾功能，带有收放机等。主驾采用机械减震式座椅，满足人员的操纵舒适性及乘坐方便性需求，副驾单人座椅。<br>配1kg灭火器。        | ● |
| 电气系统 | 直流24V，串联12V的电池组2个。<br>发电机，28V-80A。                                                                                  | ● |
| 倒车影像 | 辅助倒车操作                                                                                                              | ○ |
| 防火帽  | 安装在催化消声器上，防止排出废气产生火焰。                                                                                               | ○ |



上车

|        |                                                                                                                         |   |
|--------|-------------------------------------------------------------------------------------------------------------------------|---|
| 结构     | 徐工设计、制造，高强度钢材制造。                                                                                                        | ● |
| 液压系统   | 底盘发动机通过变速箱驱动齿轮泵用于起升、变幅、伸缩、回转动作。专用节流负载敏感设计，系统最低流量更稳定，系统刚度更合理，作业微动性、平顺性更突出；采用分合流技术，起升、变幅、伸缩双泵合流；风冷式液压油散热器。<br>液压油箱容积：735L | ● |
| 操纵方式   | 先导液比例操纵，无级调速，由左右2个操纵手柄控制。                                                                                               | ● |
| 起升机构   | 双折线绳槽卷筒，由液压马达驱动，内置行星齿轮减速器和常闭式制动器，并带有平衡阀。主、副起升机构独立操作。                                                                    | ● |
| 回转机构   | 单排四点接触球外齿式回转支承，由液压马达驱动，内置行星齿轮减速器和常闭式制动器，可连续回转360°，具有动力控制或自由滑转的功能，可无级调速。                                                 | ● |
| 回转报警灯  |                                                                                                                         | ○ |
| 变幅机构   | 单支双作用前置液压变幅油缸，带有平衡阀。                                                                                                    | ● |
| 操纵室    | 大圆弧操纵室，装有前景窗，安全玻璃，车窗装有遮阳板，操纵员座椅靠背可倾斜定位，操纵杆安装在座椅两侧的扶手台上，前窗、顶窗双电机雨刮器，2.5L水壶，单冷空调。                                         | ● |
| 空调     | 单冷空调                                                                                                                    | ● |
|        | 冷暖空调                                                                                                                    | ○ |
| 电气系统   | 直流24V，2个电池串联                                                                                                            | ● |
| 安全装置   | 液压平衡阀、液压溢流阀、液压双向锁、力矩限制器；三圈保护器，防止钢丝绳过放；臂头设置高度限位，防止钢丝绳过卷；                                                                 | ● |
| 卷扬监视装置 | 卷扬监视装置，实时监控卷扬状态。                                                                                                        | ● |
| 力矩限制器  | 当实际力矩接近过载时，发出听视觉警报，并在过载之前自动停止危险动作。具有超载记忆功能（黑匣子）和故障自诊断功能。                                                                | ● |
| 起重钩    | 50t钩                                                                                                                    | ○ |
|        | 40t钩                                                                                                                    | ● |
|        | 5t钩                                                                                                                     | ● |
| 平衡     | 总重8t，有8t、5t共2种组合方式。                                                                                                     | ● |

技术规格

Technical specifications

|                                                                                  |                                                                   |   |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------|---|
|  | 臂架系统                                                              |   |
| 主臂                                                                               | 主臂长度：11.5m～45m<br>由1节基本臂和4节伸缩臂组成，“U”形截面的筒形焊接结构，高强度结构钢制造，双缸绳排伸缩机构。 | ● |
| 副臂                                                                               | 副臂长度：9m<br>单节桁架焊接结构，具有0°、15°、30°三种固定副臂安装角                         | ● |
| 臂端单滑轮                                                                            | 单滑轮, 安装在主臂顶端用于单股钢丝绳起重作业，起重性能与主臂相同，但最大起重重量不超过4000kg。               | ● |
| 风速仪                                                                              |                                                                   | ○ |
| 角度指示器                                                                            |                                                                   | ○ |
| 旋转报警灯                                                                            |                                                                   | ○ |

产品各部件明细如上所述，具体部件明细请参照产品报价单

符号说明：

● —— 表示标准配置；

○ —— 表示选装配置。

# 技术规格

## Technical specifications



|                                | Chassis                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| <b>Frame</b>                   | Designed and manufactured by XCMG, it is made of high strength steel with fully covered walking surface and anti-torsion box-typed structure.                                                                                                                                                                                                                                                                                                         | ● |
| <b>Outriggers</b>              | Four outriggers, H-type arrangement, dual-stage outrigger beam. Hydraulic control is used to extend and retract the outrigger beams and jacks. There are manual control levers fitted at each side of the chassis. There is a level gauge and a speed regulating button on each control panel. Each outrigger jack is equipped with a dual-way hydraulic lock.<br>Float dimension: Φ450 mm<br>Reaction force of outrigger at max. lifting load: 494kN | ● |
| <b>Outrigger length sensor</b> | The length sensor is used to detect the outrigger length in real time.                                                                                                                                                                                                                                                                                                                                                                                | ○ |
| <b>Engine</b>                  | in-line, 6-cylinder, water cooled, electric control diesel engine, made by Shanghai Diesel Engine, SC9DF340Q5, with rated power of 251kW/1900rpm and max. torque of 1450Nm/(1100~1400) rpm , Max. reference torque: 1450N.m<br>compliant with China V emission standard.<br>Fuel tank capacity: 350 L.<br>AdBlue/DEF tank capacity: 35L.                                                                                                              | ● |
| <b>Transmission</b>            | FAST mechanical control, 9 speed transmission with synchronizers.                                                                                                                                                                                                                                                                                                                                                                                     | ● |
| <b>Axle</b>                    | High strength axles, made by famous manufacturer. 1st and 2nd axles are for steering, and 3rd and 4th axles are for driving.                                                                                                                                                                                                                                                                                                                          | ● |
| <b>Suspension</b>              | Leaf spring suspensions are adopted for front axle. Rubber spring suspensions with V-type push rods are adopted for rear axles, leading to improved chassis stability and reduced tire wear.                                                                                                                                                                                                                                                          | ● |
| <b>Tire</b>                    | 12 tires and 1 spare tire.<br>Tire specification: axles 1 and 2 (315/80R22.5) ; axles 3 and 4 (12R22.5)                                                                                                                                                                                                                                                                                                                                               | ● |
| <b>Braking system</b>          | Service brake: dual-circuit air pressure brake, acting on all wheels.<br>Parking brake: spring applied brake, acting on wheels of axles 3 and 4.<br>Auxiliary brake: engine exhaust brake, engine retarder brake                                                                                                                                                                                                                                      | ● |
| <b>Steering system</b>         | Mechanical steering mechanism with a hydraulic booster for 1st and 2nd axles.                                                                                                                                                                                                                                                                                                                                                                         | ● |
| <b>Driver's cab</b>            | Windshield with wide visual field, electric wiper and electric window lifters are available; heater and air conditioner can let the air blow face or feet or realize defrosting; radio is also equipped. A mechanical shock absorber seat for the driver and a single seat for the co-driver are installed to supply comfort and reduce fatigue.<br>1 kg fire extinguisher.                                                                           | ● |
| <b>Electrical system</b>       | 24 V DC, two sets of 12 V battery in series.<br>Generator: 28 V-80 A                                                                                                                                                                                                                                                                                                                                                                                  | ● |
| <b>Rear view camera</b>        | Assist in reversing the vehicle                                                                                                                                                                                                                                                                                                                                                                                                                       | ○ |
| <b>Spark arrester</b>          | Installed on the catalytic muffler to avoid the flames caused by the exhaust.                                                                                                                                                                                                                                                                                                                                                                         | ○ |



|                                | Superstructure                                                                                                                                                                                                                                                                                                                                                                                                             |             |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>Frame</b>                   | Designed and manufactured by XCMG, made of high strength steel.                                                                                                                                                                                                                                                                                                                                                            | ●           |
| <b>Hydraulic system</b>        | Gear pump driven by chassis engine is used for lifting, luffing, telescoping and slewing operations. Special throttle load sensing design, more stable system minimum flow, more reasonable system rigidity, more prominent fine-control and smoothness; dual-pump confluence technology for lifting, luffing and telescoping operations; air-cooled hydraulic oil cooler is fitted.<br>Hydraulic oil tank capacity: 735 L | ●           |
| <b>Control system</b>          | Pilot hydraulic proportional control through left and right levers is used for controlling the superstructure. Stepless speed regulation is available.                                                                                                                                                                                                                                                                     | ●           |
| <b>Winch system</b>            | Drum with Lebus grooves, driven by a hydraulic motor, with built-in planetary gear reducer, constant closed brake and balance valve. The main winch and auxiliary winch can be individually operated.                                                                                                                                                                                                                      | ●           |
| <b>Slewing system</b>          | A single-row, four-point contact-ball external slewing bearing is driven by hydraulic motor, with built-in planetary gear reducer and constant-closed brake equipped, and may continuously slew 360° . Power control and free slewing function as well as stepless speed regulation are available.                                                                                                                         | ●           |
| <b>Slewing beacon lamp</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                            | ○           |
| <b>Luffing system</b>          | A front support double-acting hydraulic cylinder is equipped for luffing operation, with a balance valve fitted.                                                                                                                                                                                                                                                                                                           | ●           |
| <b>Operator's cab</b>          | The arc-shaped cab is equipped with a front window. Safety glass and sun shield are used for windows. The cab features a new ergonomic seat design with backrest adjustment and armrests with joysticks fitted. Dual motor wipers are fitted for the windshield and roof window with 2.5L water tank.<br>Air conditioner is equipped as a standard.                                                                        | ●           |
| <b>HVAC</b>                    | Air conditioner                                                                                                                                                                                                                                                                                                                                                                                                            | ●           |
|                                | Air conditioner and heater                                                                                                                                                                                                                                                                                                                                                                                                 | ○           |
| <b>Electrical system</b>       | DC 24 V, two batteries in series.                                                                                                                                                                                                                                                                                                                                                                                          | ●           |
| <b>Safety devices</b>          | Hydraulic balance valve, hydraulic relief valve, hydraulic double-way lock and LMI are available. Lowering limiter is equipped in winch to prevent rope over-releasing. Anti-two block is fitted on the boom head to prevent rope over-winding.                                                                                                                                                                            | ●           |
| <b>Winch monitoring device</b> | Winch monitoring device is equipped to monitor the winch status in real time.                                                                                                                                                                                                                                                                                                                                              | ●           |
| <b>LMI</b>                     | When the actual load moment is approaching the overloading value, audible and visible warning will be sent out, and the dangerous operation will automatically stop before overloading occurs. Overload memory function (black box) and fault self-diagnosis function are available.                                                                                                                                       | ●           |
| <b>Hook block</b>              | 50 t<br>40 t<br>5 t                                                                                                                                                                                                                                                                                                                                                                                                        | ○<br>●<br>● |
| <b>Counterweight</b>           | 8 t in total, Two combinations of 8 t and 5 t are available.                                                                                                                                                                                                                                                                                                                                                               | ●           |

技术规格

Technical specifications

|                                                                                                      |                                                                                                                                                                                                                                          |   |
|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|  Boom and jib system |                                                                                                                                                                                                                                          |   |
| Boom                                                                                                 | Boom length: 11.5 m~45 m<br>Comprised of one basic boom and four telescoping boom sections, the boom adopts U shape cross section and is made of high strength structural steel. Dual-cylinder plus ropes telescoping system is adopted. | ● |
| Jib                                                                                                  | Jib length: 9 m<br>One-section lattice jib, welded structure; three offset angles : 0° , 15° and 30° .                                                                                                                                   | ● |
| Single top                                                                                           | Installed at the boom top, used for single line operation. Its lifting performance is the same as that of boom, but the max. lifting load does not exceed 4000 kg.                                                                       | ● |
| Anemometer                                                                                           |                                                                                                                                                                                                                                          | ○ |
| Angle indicator                                                                                      |                                                                                                                                                                                                                                          | ○ |
| Rotary beacon lamp                                                                                   |                                                                                                                                                                                                                                          | ○ |

Product parts list is as mentioned above.  
Please refer to the product quotation for specific parts  
● ——Standard  
○ ——Optional



重量  
Weight



| 车桥<br>Axle | 1   | 2   | 3    | 4    | 总重量<br>Total weight |
|------------|-----|-----|------|------|---------------------|
| t          | 7   | 7   | 12.3 | 12.3 | 38.6 <sup>1)</sup>  |
| t          | 6.3 | 6.3 | 14.3 | 14.3 | 41.6 <sup>2)</sup>  |

1)行驶状态：转台尾部不携带3t活动式平衡重，主吊钩固定在车头前方，副吊钩固定在车架尾部。  
Travel configuration: removable counterweight of 3 t is not attached at turntable tail, main hook block is attached to the front of the vehicle, auxiliary hook block is attached and secured at the frame tail.

2)重载转场：转台尾部携带全部平衡重，40t钩固定在车头前方，副吊钩固定在车架尾部。  
Heavy load job site transfer configuration: All counterweights are carried at the turntable tail, 40 t hook block is attached to the front of the vehicle, auxiliary hook block is attached and secured at the frame tail.



| 吊钩<br>Hook block | 倍率<br>Parts of line | 吊钩重量<br>Weight (kg) | 吊钩尺寸<br>Dimensions (mm) | 备注<br>Remarks             |
|------------------|---------------------|---------------------|-------------------------|---------------------------|
| 50 t             | 10                  | 397                 | 439×544×1325            | 单钩 Single hook 选装Optional |
| 40 t             | 9                   | 360                 | 389×504×1362            | 单钩 Single hook            |
| 5 t              | 1                   | 100                 | 300×300×535             | 单钩 Single hook            |

作业速度  
Working speeds



|                       |          |     |
|-----------------------|----------|-----|
| 315/80R22.5 , 12R22.5 | 2.5 ~ 90 | 45% |
|-----------------------|----------|-----|

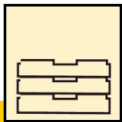
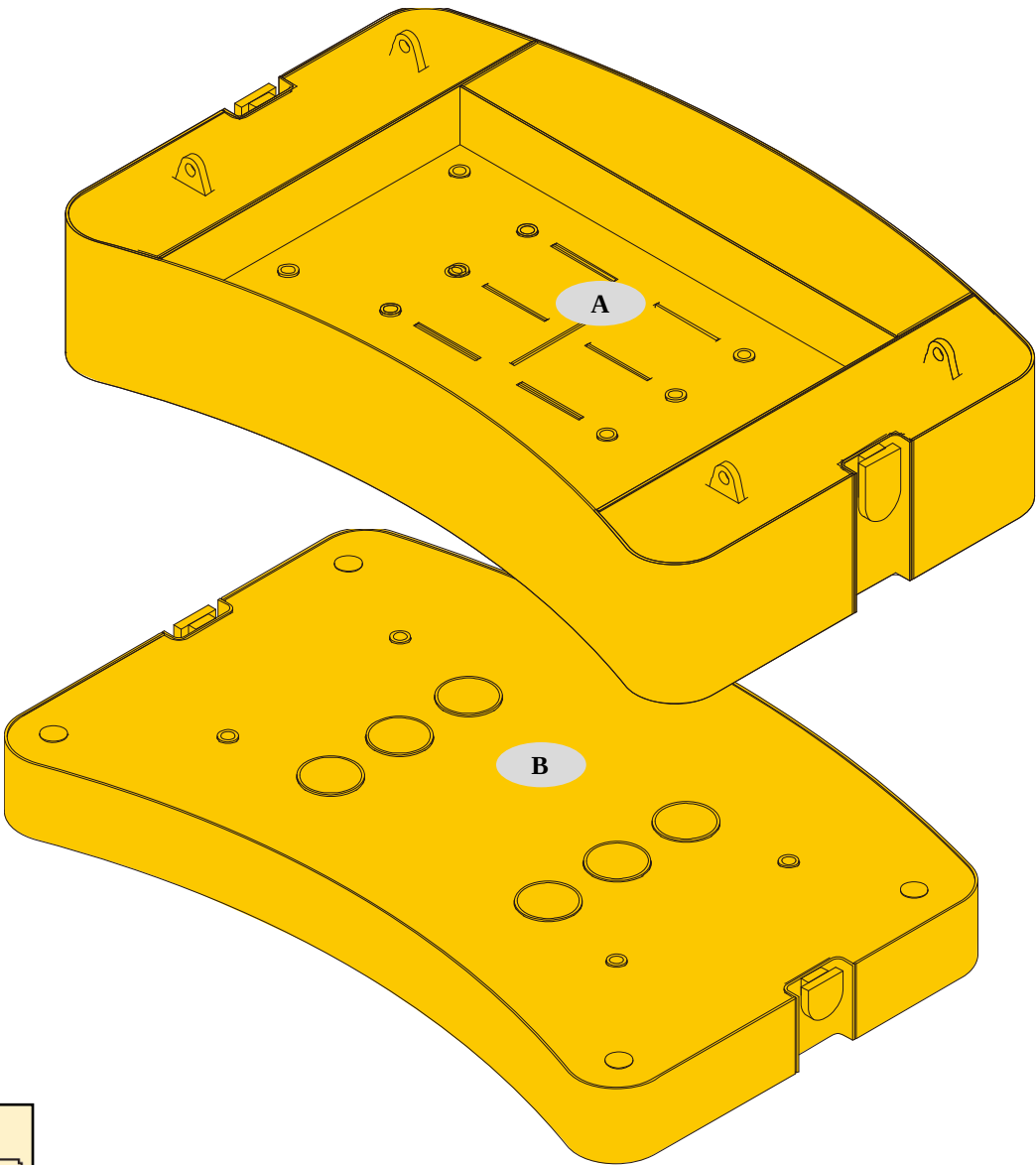


| 作业机构<br>Operating mechanism | 作业速度<br>Working speed                                                      | 最大单绳拉力<br>Max. single line pull | 钢丝绳直径/长度<br>Rope diameter/ length |
|-----------------------------|----------------------------------------------------------------------------|---------------------------------|-----------------------------------|
|                             | 0-130 m/min , 单绳 , 第四层<br>m/min, single line, 4th layer                    | 49kN                            | 18 mm/190 m                       |
|                             | 0-130 m/min , 单绳 , 第四层<br>m/min, single line, 4th layer                    | 49kN                            | 18 mm/115 m                       |
|                             | 0-2.5 r/min                                                                |                                 |                                   |
|                             | 从-0.5°抬起至80.2°约40s<br>Approx. 40 s for boom luffing up from -0.5° to 80.2° |                                 |                                   |
|                             | 从11.5m伸出至45m约88s<br>Approx. 88 s for boom extending from 11.5 m to 45 m    |                                 |                                   |



平衡重

Counterweight



| 平衡重<br>Counterweight                   | A              | B              |
|----------------------------------------|----------------|----------------|
| 尺寸 (长×宽×高) m<br>Dimensions (L×W×H) (m) | 2580×1722× 495 | 2580×1722× 265 |
| 重量 t<br>Weight (t)                     | 5              | 3              |

| 工况模式<br>Working mode | 8t  | 5t |
|----------------------|-----|----|
| 组合形式<br>Combinations | A+B | A  |



臂架组合方案

Boom/ Jib combinations



主臂

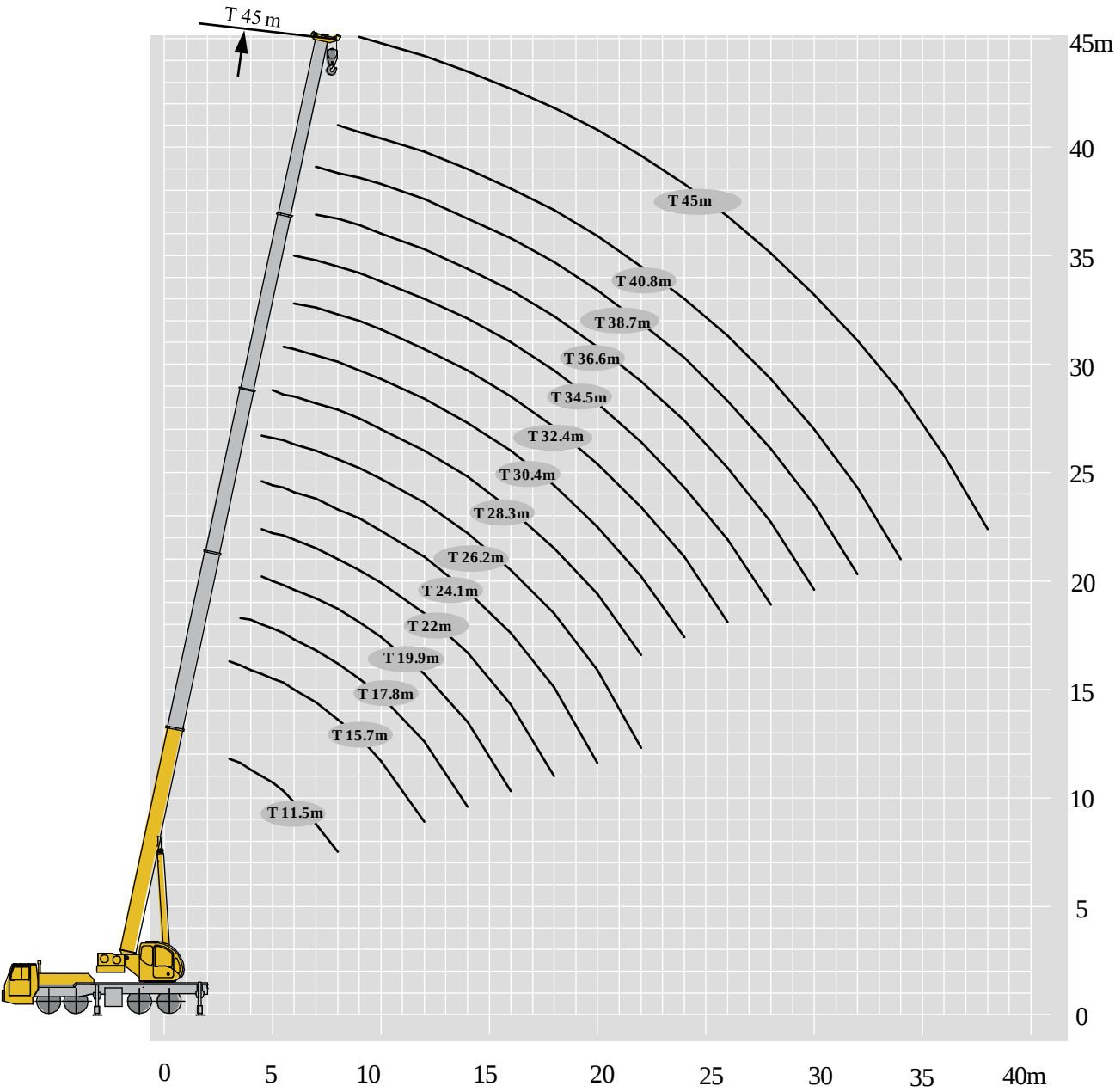
Telescopic boom

T : 11.5~45m

副臂

Jib

T : 45m  
J : 9 m

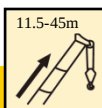
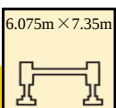
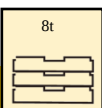




起重性能表

Lifting capacities

T 11.5~45m

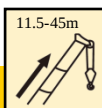
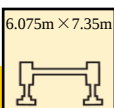
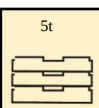
|  |      |  |  |  |  |      |     |      |      |      |      |      |      |      |      |     |  |
|----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|-----|------|------|------|------|------|------|------|------|-----|-------------------------------------------------------------------------------------|
|                                                                                  | 11.5 | 15.7                                                                              | 19.9                                                                              | 26.2                                                                              | 32.4                                                                              | 38.7 | 45  | 17.8 | 24.1 | 30.4 | 36.6 | 22   | 28.3 | 34.5 | 40.8 |     |                                                                                     |
| 3                                                                                | 50   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |      |     |      |      |      |      |      |      |      |      | 3   |                                                                                     |
| 3.5                                                                              | 40   | 38                                                                                |                                                                                   |                                                                                   |                                                                                   |      |     |      |      |      |      |      |      |      |      | 3.5 |                                                                                     |
| 4                                                                                | 35.5 | 36                                                                                |                                                                                   |                                                                                   |                                                                                   |      |     | 26.5 |      |      |      |      |      |      |      | 4   |                                                                                     |
| 4.5                                                                              | 33.5 | 33                                                                                | 29                                                                                | 25.5                                                                              |                                                                                   |      |     | 26.5 | 26   |      |      | 26   |      |      |      | 4.5 |                                                                                     |
| 5                                                                                | 32.5 | 30.6                                                                              | 28                                                                                | 25.5                                                                              |                                                                                   |      |     | 26.5 | 26   |      |      | 26   | 25   |      |      | 5   |                                                                                     |
| 5.5                                                                              | 29.7 | 28.5                                                                              | 27                                                                                | 25                                                                                |                                                                                   |      |     | 26.5 | 26   | 15.2 |      | 25.6 | 25   |      |      | 5.5 |                                                                                     |
| 6                                                                                | 27   | 26.5                                                                              | 24.5                                                                              | 24                                                                                | 20                                                                                |      |     | 25.8 | 25.2 | 15.2 |      | 25   | 24.5 | 15.5 |      | 6   |                                                                                     |
| 7                                                                                | 23   | 22.3                                                                              | 22                                                                                | 22                                                                                | 20                                                                                | 14.2 |     | 23.5 | 23.6 | 15.2 | 11.5 | 22   | 22.5 | 15.5 |      | 7   |                                                                                     |
| 8                                                                                | 19.2 | 18.6                                                                              | 19                                                                                | 18.5                                                                              | 18.5                                                                              | 14   |     | 20   | 20   | 15.2 | 11.5 | 19.5 | 18.9 | 15.5 | 11.5 | 8   |                                                                                     |
| 9                                                                                |      | 15.8                                                                              | 16.2                                                                              | 16.7                                                                              | 16.8                                                                              | 13.7 | 9.2 | 17.4 | 17.5 | 14.5 | 11.3 | 17   | 17   | 14.6 | 11   | 9   |                                                                                     |
| 10                                                                               |      | 13.9                                                                              | 13.5                                                                              | 14.5                                                                              | 14.6                                                                              | 13.2 | 9   | 15.3 | 15.8 | 13.5 | 10.6 | 14.8 | 15.3 | 13.8 | 10.4 | 10  |                                                                                     |
| 12                                                                               |      | 10.2                                                                              | 10                                                                                | 10.9                                                                              | 11.4                                                                              | 11.6 | 9   | 11.8 | 12.3 | 11.4 | 9.4  | 11.2 | 11.8 | 12.2 | 9.3  | 12  |                                                                                     |
| 14                                                                               |      |                                                                                   | 7.3                                                                               | 8.1                                                                               | 8.6                                                                               | 9    | 8.1 | 9    | 9.5  | 10.4 | 8.4  | 8.5  | 9    | 9.4  | 8.2  | 14  |                                                                                     |
| 16                                                                               |      |                                                                                   | 5.4                                                                               | 6.2                                                                               | 6.7                                                                               | 7.1  | 7.1 | 6.5  | 7.5  | 7.8  | 7.4  | 6.6  | 7.1  | 7.4  | 7.4  | 16  |                                                                                     |
| 18                                                                               |      |                                                                                   | 3.6                                                                               | 4.8                                                                               | 5.3                                                                               | 5.6  | 5.9 |      | 6.1  | 6.4  | 6.5  | 5.1  | 5.6  | 5.9  | 6.2  | 18  |                                                                                     |
| 20                                                                               |      |                                                                                   |                                                                                   | 3.7                                                                               | 4.2                                                                               | 4.5  | 4.8 |      | 5    | 5.2  | 5.3  | 3.8  | 4.5  | 4.8  | 5    | 20  |                                                                                     |
| 22                                                                               |      |                                                                                   |                                                                                   | 2.9                                                                               | 3.3                                                                               | 3.6  | 3.9 |      | 3.8  | 4.4  | 4.5  |      | 3.7  | 4    | 4.2  | 22  |                                                                                     |
| 24                                                                               |      |                                                                                   |                                                                                   | 2                                                                                 | 2.6                                                                               | 3    | 3.2 |      |      | 3.6  | 3.8  |      | 2.8  | 3.3  | 3.5  | 24  |                                                                                     |
| 26                                                                               |      |                                                                                   |                                                                                   |                                                                                   | 2.1                                                                               | 2.4  | 2.7 |      |      | 2.8  | 3.2  |      | 2.2  | 2.7  | 2.9  | 26  |                                                                                     |
| 28                                                                               |      |                                                                                   |                                                                                   |                                                                                   | 1.4                                                                               | 1.9  | 2.2 |      |      | 2.3  | 2.7  |      |      | 2.2  | 2.4  | 28  |                                                                                     |
| 30                                                                               |      |                                                                                   |                                                                                   |                                                                                   | 1                                                                                 | 1.5  | 1.8 |      |      |      | 2.3  |      |      | 1.6  | 2    | 30  |                                                                                     |
| 32                                                                               |      |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 1.2  | 1.4 |      |      |      | 1.8  |      |      | 1.3  | 1.6  | 32  |                                                                                     |
| 34                                                                               |      |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0.7  | 1.1 |      |      |      | 1.5  |      |      |      | 1.3  | 34  |                                                                                     |
| 36                                                                               |      |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 0.5  | 0.7 |      |      |      |      |      |      |      | 0.9  | 36  |                                                                                     |
| 38                                                                               |      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |      | 0.5 |      |      |      |      |      |      |      | 0.6  | 38  |                                                                                     |

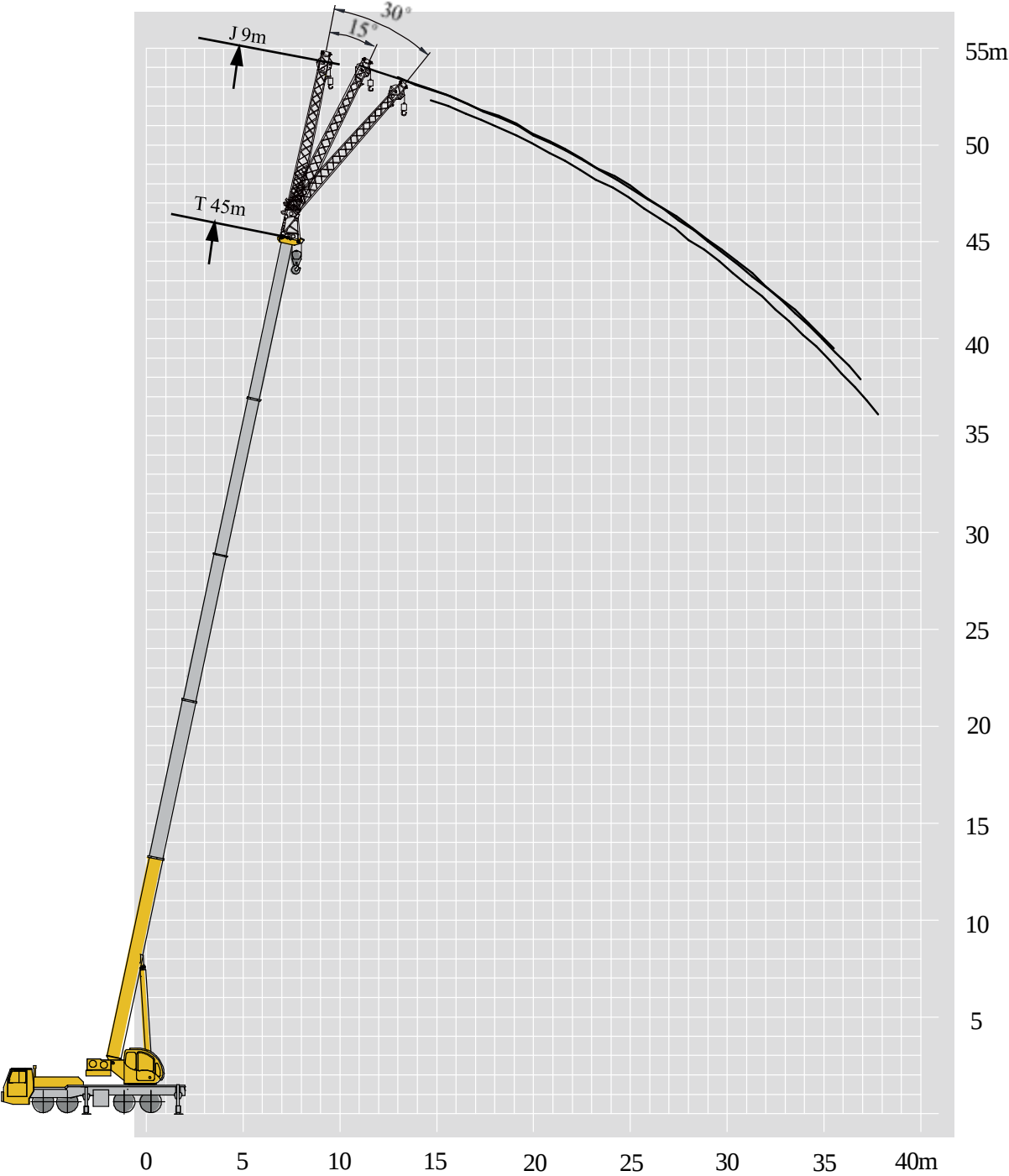


起重性能表

Lifting capacities

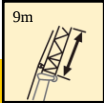
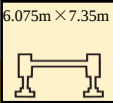
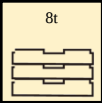
T 11.5~45m

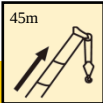
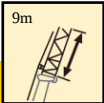
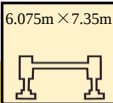
|  |      |  |      |  |      |  |     |  |      |      |      |      |      |      |      |  |  |  |  |  |  |     |
|----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------|------|------|------|------|------|------|------|--|--|--|--|-------------------------------------------------------------------------------------|--|-----|
|                                                                                  | 11.5 | 15.7                                                                              | 19.9 | 26.2                                                                              | 32.4 | 38.7                                                                              | 45  | 17.8                                                                              | 24.1 | 30.4 | 36.6 | 22   | 28.3 | 34.5 | 40.8 |  |  |  |  |                                                                                     |  |     |
| 3                                                                                | 50   |                                                                                   |      |                                                                                   |      |                                                                                   |     |                                                                                   |      |      |      |      |      |      |      |  |  |  |  |                                                                                     |  | 3   |
| 3.5                                                                              | 40   | 38                                                                                |      |                                                                                   |      |                                                                                   |     |                                                                                   |      |      |      |      |      |      |      |  |  |  |  |                                                                                     |  | 3.5 |
| 4                                                                                | 35.5 | 36                                                                                |      |                                                                                   |      |                                                                                   |     | 26.5                                                                              |      |      |      |      |      |      |      |  |  |  |  |                                                                                     |  | 4   |
| 4.5                                                                              | 33.5 | 33                                                                                | 29   | 25.5                                                                              |      |                                                                                   |     | 26.5                                                                              | 26   |      |      | 26   |      |      |      |  |  |  |  |                                                                                     |  | 4.5 |
| 5                                                                                | 32.5 | 30.6                                                                              | 28   | 25.5                                                                              |      |                                                                                   |     | 26.5                                                                              | 26   |      |      | 26   | 25   |      |      |  |  |  |  |                                                                                     |  | 5   |
| 5.5                                                                              | 29.7 | 28.5                                                                              | 27   | 25                                                                                |      |                                                                                   |     | 26.5                                                                              | 26   | 15.2 |      | 25.6 | 25   |      |      |  |  |  |  |                                                                                     |  | 5.5 |
| 6                                                                                | 27   | 26.5                                                                              | 24.5 | 24                                                                                | 20   |                                                                                   |     | 25.8                                                                              | 25.2 | 15.2 |      | 25   | 24.5 | 15.5 |      |  |  |  |  |                                                                                     |  | 6   |
| 7                                                                                | 23   | 22.3                                                                              | 22   | 22                                                                                | 20   | 14.2                                                                              |     | 23.5                                                                              | 23.6 | 15.2 | 11.5 | 22   | 22.5 | 15.5 |      |  |  |  |  |                                                                                     |  | 7   |
| 8                                                                                | 19.2 | 18.6                                                                              | 18.4 | 18.5                                                                              | 18.5 | 14                                                                                |     | 20                                                                                | 20   | 15.2 | 11.5 | 19.5 | 18.9 | 15.5 | 11.5 |  |  |  |  |                                                                                     |  | 8   |
| 9                                                                                |      | 14.8                                                                              | 14.5 | 15.5                                                                              | 16.2 | 13.7                                                                              | 9.2 | 16.6                                                                              | 17.1 | 14.5 | 11.3 | 16   | 16.6 | 14.6 | 11   |  |  |  |  |                                                                                     |  | 9   |
| 10                                                                               |      | 12.1                                                                              | 11.8 | 12.7                                                                              | 13.3 | 13.2                                                                              | 9   | 13.7                                                                              | 14.2 | 13.5 | 10.6 | 13.1 | 13.7 | 13.8 | 10.4 |  |  |  |  |                                                                                     |  | 10  |
| 12                                                                               |      | 8.4                                                                               | 8.1  | 9                                                                                 | 9.5  | 9.9                                                                               | 9   | 9.9                                                                               | 10.4 | 10.7 | 9.4  | 9.4  | 9.9  | 10.2 | 9.3  |  |  |  |  |                                                                                     |  | 12  |
| 14                                                                               |      |                                                                                   | 5.8  | 6.6                                                                               | 7.1  | 7.5                                                                               | 7.7 | 7.5                                                                               | 7.9  | 8.2  | 8.4  | 7    | 7.5  | 7.8  | 8    |  |  |  |  |                                                                                     |  | 14  |
| 16                                                                               |      |                                                                                   | 4.1  | 4.9                                                                               | 5.4  | 5.8                                                                               | 6   |                                                                                   | 6.3  | 6.5  | 6.7  | 5.3  | 5.8  | 6.1  | 6.3  |  |  |  |  |                                                                                     |  | 16  |
| 18                                                                               |      |                                                                                   |      | 3.7                                                                               | 4.2  | 4.5                                                                               | 4.7 |                                                                                   | 5    | 5.2  | 5.4  | 4    | 4.5  | 4.8  | 5    |  |  |  |  |                                                                                     |  | 18  |
| 20                                                                               |      |                                                                                   |      | 2.7                                                                               | 3.2  | 3.5                                                                               | 3.8 |                                                                                   | 4    | 4.3  | 4.4  |      | 3.6  | 3.9  | 4.1  |  |  |  |  |                                                                                     |  | 20  |
| 22                                                                               |      |                                                                                   |      | 2                                                                                 | 2.5  | 2.8                                                                               | 3   |                                                                                   |      | 3.5  | 3.6  |      | 2.8  | 3.1  | 3.3  |  |  |  |  |                                                                                     |  | 22  |
| 24                                                                               |      |                                                                                   |      |                                                                                   | 1.9  | 2.2                                                                               | 2.4 |                                                                                   |      | 2.9  | 3    |      |      | 2.5  | 2.7  |  |  |  |  |                                                                                     |  | 24  |
| 26                                                                               |      |                                                                                   |      |                                                                                   | 1.4  | 1.7                                                                               | 1.9 |                                                                                   |      |      | 2.5  |      |      | 2    | 2.2  |  |  |  |  |                                                                                     |  | 26  |
| 28                                                                               |      |                                                                                   |      |                                                                                   |      | 1.3                                                                               | 1.5 |                                                                                   |      |      | 2.1  |      |      | 1.6  | 1.8  |  |  |  |  |                                                                                     |  | 28  |
| 30                                                                               |      |                                                                                   |      |                                                                                   |      |                                                                                   | 1.1 |                                                                                   |      |      | 1.7  |      |      |      | 1.4  |  |  |  |  |                                                                                     |  | 30  |



起重性能表  
Lifting capacities

T 45m

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |     |     |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|----|
| <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>9m</div> <div></div> |     |     |     |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0°  | 15° | 30° |    |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.6 | 2.9 | 2.1 | 80 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.5 | 2.8 | 2   | 78 |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.3 | 2.5 | 1.7 | 75 |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.1 | 2.4 | 1.6 | 72 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3   | 2.3 | 1.6 | 70 |
| 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.5 | 2   | 1.5 | 65 |
| 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2   | 1.8 | 1.3 | 60 |
| 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.5 | 1.4 | 1.2 | 55 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1   | 0.8 | 0.8 | 50 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |     |     |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|----|
| <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>9m</div> <div></div> |     |     |     |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0°  | 15° | 30° |    |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.6 | 2.9 | 2.1 | 80 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.5 | 2.8 | 2   | 78 |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.3 | 2.5 | 1.7 | 75 |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.1 | 2.4 | 1.6 | 72 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3   | 2.3 | 1.6 | 70 |
| 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.5 | 2   | 1.5 | 65 |
| 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.7 | 1.6 | 1.3 | 60 |
| 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.1 | 1   | 1   | 55 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.7 | 0.6 | 0.6 | 50 |

符号标识

Description of symbols

常规标识

General symbols

|                                                                                    |                                                                           |                                                                                     |                                                                |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------|
|    | 上车<br>Superstructure                                                      |    | 底盘<br>Chassis                                                  |
|    | 起重能力<br>Lifting capacity                                                  |    | 车桥<br>Axle                                                     |
|    | 吊臂长度<br>Boom length                                                       |    | 行驶速度<br>Travel speed                                           |
|    | 工作幅度<br>Working radius                                                    |    | 爬坡能力<br>Grade ability                                          |
|    | 吊臂仰角<br>Boom angle                                                        |    | 轮胎<br>Tires                                                    |
|   | 主臂起升高度<br>Lifting height with boom                                        |   | 支腿<br>Outriggers                                               |
|  | 固定副臂长度<br>Fixed jib length                                                |  | 吊钩<br>Hook block                                               |
|  | 副臂安装角<br>Jib offset angle                                                 |  | 平衡重<br>Counterweight                                           |
|  | 副臂起升高度<br>Lifting height with jib                                         |  | 卷扬<br>Winch                                                    |
|  | 不使用第五支腿侧后方作业<br>Boom over side or over rear of the crane without 5th jack |  | 使用第五支腿360°全回转<br>360° operation of the boom with 5th jack down |



主要技术参数表  
Table of main technical parameters

| 类别<br>Category     | 项目<br>Item                                              |             | 单位<br>Unit  | 参数<br>Parameter                                              |
|--------------------|---------------------------------------------------------|-------------|-------------|--------------------------------------------------------------|
| 尺寸参数<br>Dimensions | 外形尺寸 (长×宽×高)<br>Dimensions (length×width×height)        |             | mm          | 14375×2650×3480                                              |
|                    | 轴距<br>Wheelbase                                         |             | mm          | 1470+4150+1350                                               |
|                    | 轮距 (前/后)<br>Track (Front/ Rear)                         |             | mm          | 2032/1854 ( 汉德Hande )                                        |
|                    | 前悬/后悬<br>Front/ Rear overhang                           |             | mm          | 2405/2396 ( 徐工汽车XCMG Automobile )<br>2418/2396 ( 齐星Qixing )  |
|                    | 前伸/后伸<br>Front/ Rear extension                          |             | mm          | 2100/504 ( 徐工汽车XCMG Automobile )<br>2087/504 ( 齐星Qixing )    |
| 重量参数<br>Weight     | 最大允许总质量<br>Max. permissible total weight                |             | kg          | 38600                                                        |
|                    | 轴荷<br>Axle load                                         | 一轴 1st axle | kg          | 7000                                                         |
|                    |                                                         | 二轴 2nd axle | kg          | 7000                                                         |
|                    |                                                         | 三轴 3rd axle | kg          | 12300                                                        |
|                    |                                                         | 四轴 4th axle | kg          | 12300                                                        |
| 动力参数<br>Power      | 发动机型号<br>Engine model                                   |             | —           | SC9DF340Q5 ( 国V ) (compliant with China V emission standard) |
|                    | 额定功率/转速<br>Engine rated power/rpm                       |             | kW/(r/min)  | 251/1900                                                     |
|                    | 最大净功率/转速<br>Max. net power/rpm                          |             | kW/(r/min)  | 248/1900                                                     |
|                    | 最大扭矩/转速<br>Max. torque/rpm                              |             | N.m/(r/min) | 1450/1100-1400                                               |
| 行驶参数<br>Travel     | 最高车速<br>Max. travel speed                               |             | km/h        | ≥90                                                          |
|                    | 最低稳定车速<br>Min. stable travel speed                      |             | km/h        | 2.5 ~ 3                                                      |
|                    | 最小转弯直径<br>Min. turning diameter                         |             | m           | ≤24                                                          |
|                    | 臂头最小转弯直径<br>Min. turning diameter at boom tip           |             | m           | ≤29                                                          |
|                    | 最小离地间隙<br>Min. ground clearance                         |             | mm          | 250                                                          |
|                    | 接近角<br>Approach angle                                   |             | °           | 11                                                           |
|                    | 离去角<br>Departure angle                                  |             | °           | 12                                                           |
|                    | 制动距离 ( 制动初速度为30km/h )<br>Braking distance (at 30 km/h ) |             | m           | ≤10                                                          |
|                    | 最大爬坡能力<br>Max. grade ability                            |             | %           | ≥45                                                          |
|                    | 百公里油耗<br>Fuel consumption per 100 km                    |             | L           | 35                                                           |
| 噪音<br>Noise        | 加速行驶机外噪声<br>Exterior noise level when accelerating      |             | dB(A)       | ≤88                                                          |
|                    | 驾驶员耳旁噪声<br>Noise level at seated position               |             | dB(A)       | ≤90                                                          |

主要技术参数表  
 Table of main technical parameters

| 类别<br>Category             | 项目<br>Item                                                          |                                      | 单位<br>Unit   | 参数<br>Parameter |      |
|----------------------------|---------------------------------------------------------------------|--------------------------------------|--------------|-----------------|------|
| 主要性能参数<br>Main performance | 最大额定总起重量 Max. total rated lifting capacity                          |                                      | t            | 50              |      |
|                            | 最小额定工作幅度 Min. rated working radius                                  |                                      | m            | 3               |      |
|                            | 转台尾部回转半径<br>Turning radius at turntable tail                        | 平衡重处 At counterweight                | mm           | 4270            |      |
|                            |                                                                     | 主卷处 At main winch                    | mm           | 3757            |      |
|                            | 最大起重力矩<br>Max. load moment                                          | 基本臂<br>Base boom                     | kN.m         | 1600            |      |
|                            |                                                                     | 最长主臂<br>Fully-extended boom          | kN.m         | 1040            |      |
|                            |                                                                     | 最长主臂+副臂<br>Fully-extended boom + Jib | kN.m         | 593             |      |
|                            | 支腿跨距<br>Outrigger span                                              | 纵向 Longitudinal                      | m            | 6.075           |      |
|                            |                                                                     | 横向 Lateral                           | m            | 7.35            |      |
|                            | 起升高度<br>Lifting height                                              | 基本臂<br>Base boom                     | m            | 11.6            |      |
|                            |                                                                     | 最长主臂<br>Fully-extended boom          | m            | 44.9            |      |
|                            |                                                                     | 最长主臂+副臂<br>Fully-extended boom + Jib | m            | 54.1            |      |
|                            | 起重臂长度<br>Boom length                                                | 基本臂<br>Base boom                     | m            | 11.5            |      |
|                            |                                                                     | 最长主臂<br>Fully-extended boom          | m            | 45              |      |
|                            |                                                                     | 最长主臂+副臂<br>Fully-extended boom + Jib | m            | 54              |      |
|                            | 副臂安装角 Jib offset angle                                              |                                      | °            | 0, 15, 30       |      |
| 工作速度参数<br>Working speed    | 起重臂起臂时间 Time for raising the boom                                   |                                      | s            | ≤40             |      |
|                            | 起重臂全伸时间 Time for fully extending the boom                           |                                      | s            | ≤88             |      |
|                            | 最大回转速度 Max. slewing speed                                           |                                      | r/min        | ≥2.5            |      |
|                            | 支腿收放时间<br>Time for extending and retracting outriggers              | 水平支腿<br>Outrigger beam               | 收 Retracting | s               | ≤28  |
|                            |                                                                     |                                      | 放 Extending  | s               | ≤28  |
|                            |                                                                     | 垂直支腿<br>Outrigger jack               | 收 Retracting | s               | ≤35  |
|                            |                                                                     |                                      | 放 Extending  | s               | ≤35  |
|                            | 起升速度（单绳,第四层，空载）<br>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                                | ≥130         |                 |      |
| 噪声<br>Noise                | 机外辐射 Exterior noise level                                           |                                      | dB ( A )     | ≤108            |      |
|                            | 司机位置处 Noise level at seated position                                |                                      | dB ( A )     | ≤85             |      |

## 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 from the rated lifting load.
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. 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/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 should be extended according to the telescoping code shown by percentage (or digits, which means the percentage of boom sections extended).



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