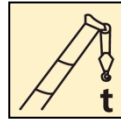


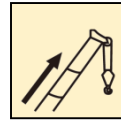
QY55KC汽车起重机 / Truck Crane

产品简介

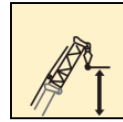
Brief introduction



55 t



44.5 m



60.3 m



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QY55KC

QY55KC广泛适用于建筑工地、城市改造、交通运输、港口、桥梁、油田、矿场等场所和其它复杂的作业环境

QY55KC Truck crane is widely used for the lifting operations in general engineering projects, such as construction sites, urban renewal, communication and transportation, ports, bridges, oilfields and mines, and complex working environments.



- 五节“U型”44.5米主臂，最大起重能力：55吨，最大起升高度：60.3米，最大工作半径：44.5米，超强起重性能
- 5-section boom of 44.5 m with U-type profile is adopted. 55 t max. lifting capacity, 60.3 m max. lifting height and 44.5 m max. working radius. All capacities take the lead in its class.
- 行业首创黄金传动链，越野能力强，油耗低，45%强劲爬坡能力
- Optimal transmission system first created in the industry contributes to strong off-road performance and low oil consumption; the grade-ability is 45%.
- 全配重短途转场
- Taking full counterweight on board is allowed during short distance job site transfer .





QY55KC

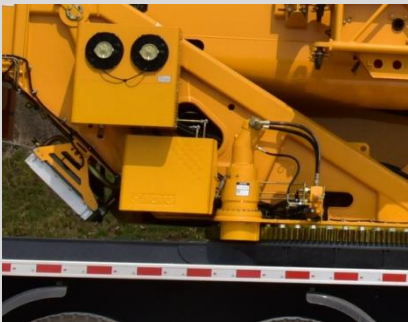




回转机构

Slewing mechanism

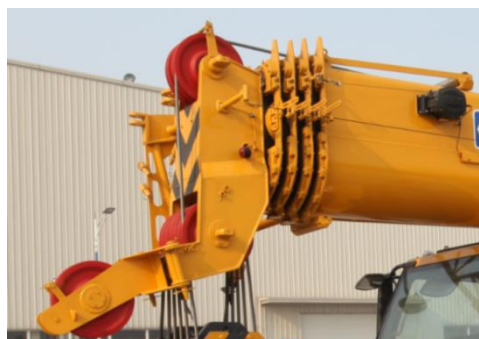
- 单排四点接触球外齿式回转支承，360度回转
- Single-row four-point ball contact external tooth slewing ring, may continuously slew 360°.
- 定量泵-低速大扭矩定量马达液压系统
- Hydraulic system with a constant displacement pump and a low speed large torque constant displacement motor equipped
- 具有动力控制或自由回转的功能，可无级调速
- Power control and free-sliding function are available, and speed may be infinitely regulated
- 回转速度为0-1.6r/min
- Slewing speed is 0-1.6 r/min





超强起重性能 Superb lifting performance

- 行业最长五节 44.5 米“U 型”主臂，主吊钩最大 12 倍率，性能领先同类产品，全配重状态下，行业领先。顺序伸缩升级为任意伸缩，臂长变换更高效，中长臂性能更高；
- 5-section boom of 44.5 m with U-type profile, best-in-class boom length. The max. parts of line for the main hook block is 12. The crane has leading capacities with full counterweight compared with the competitive cranes. The telescoping mode is updated to random telescoping from sequential telescoping, resulting in more efficient change of boom length, and better capacity of medium-long boom;
- 创新单板臂头与紧凑式臂尾结构，搭接比行业最大，吊臂承载力更强。
- Innovative single-plate boom head and compact boom tail structure, best overlapping ratio in its class and stronger boom load-bearing capacity.



定量泵阀控负载敏感液压系统

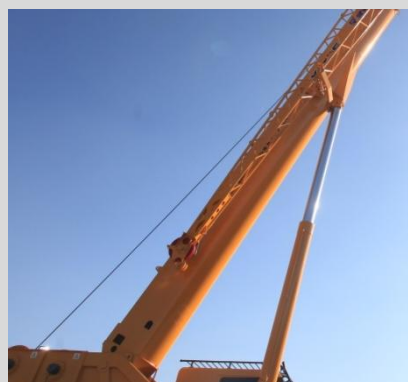
Constant displacement pump valve-controlled load sensitive hydraulic system

- 双泵分流控制技术，起升、变幅、伸臂单独动作时，双泵合流供油，作业高效；
- Dual-pump confluent control technology enables dual-pump confluence oil supply for individual hoisting, elevating or telescoping movement, leading to higher working efficiency;
- 复合动作时，双泵自动分合流控制，可实现任意工况复合，复合动作操控性能优异
- Automatic dual-pump confluence control for simultaneous movements makes any combined movements possible, leading to excellent manipulation performance;
- 精准作业时单泵切换，回转最低稳定速度达到 0.1°/s，起升最低稳定速度（卷筒处）2.5m/min，吊装作业微动性及操作平顺性行业领先；
- Oil supply may be switched from dual-pump to single pump for precise operation. The min. stable slewing speed of 0.1°/s and min. stable lifting speed (at drum) of 2.5 m/min contribute to precise and safe lifting operations.

起升机构

Hoisting mechanism

- 定量泵-变量马达开放式液压系统
- Open type hydraulic system with variable displacement pump and constant displacement motor equipped
- 行星齿轮减速器、常闭式制动器
- Planetary gear reducer, normally closed brake
- 最大单绳拉力为 50KN
- Max. single line pull is 50KN
- 最大起升速度 130m/min
- Max. hoisting speed is 130 m/min



变幅机构

Elevating mechanism

- 单变幅油缸，可靠性高
- Single elevating cylinder, high reliability
- 使用带负载补偿功能的变幅平衡阀
- Elevating balance valve with load compensation function
- 采用重力下降方式
- Free-fall for lowering boom

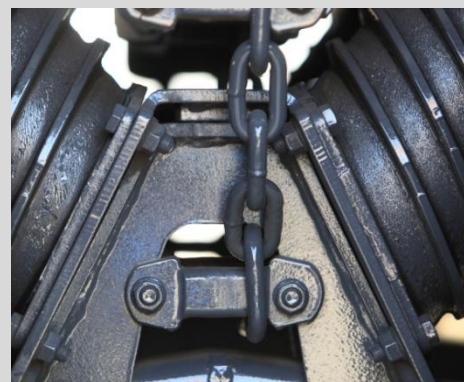
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动力传动系统

Power transmission system

- 重汽发动机，额定功率276kw，最大输出扭矩1560N.m
- Sinotruk engine with rated power of 276kw, and max torque of 1560 N.m
- 陕齿机械变速箱，软轴操纵，全同步器
- Mechanical transmission made by Shaanxi Gear Factory, operated through a flexible shaft, with a synchronizer fitted
- 最高车速90Km/h，最大爬坡能力45%
- Max. travel speed is 90 km/h, and max. grade ability is 45%





黄金动力传动系统，动力更澎湃

Optimal power transmission system

- 以低速大扭矩发动机和大速比、超速档变速箱为核心的全新动力平台，驱动性能强，承载能力高，稳定性好；
- The new power transmission system consists of a low speed large torque engine and a transmission with high speed ratio and over drive contributes to strong driving performance, high load-bearing capacity and better stability;
- 实现了高动力性能与低油耗完美融合，最大爬坡能力45%、最高行驶车速90km/h，百公里油耗40L；
- High power performance and low fuel consumption are perfectly integrated. The max. grade ability is 45%, max. travel speed is 90 km/h, and fuel consumption per 100 km is only 40L.

G类越野底盘

G-class off-road chassis

- 接近角19°、离去角14°、纵向通过角25°，复杂路况通过适应性强
- Approach angle is 19°, departure angle is 14°, ramp angle is 25°, better ability to accommodate various road conditions.



悬挂系统

Suspension system

- 前悬架采用钢板弹簧
- Leaf springs are adopted for front suspensions.
- 后悬架采用橡胶悬架，V型推力杆
- Rubber suspension with V-type push rod for rear suspensions

高层级轮胎

High-grade tire

- 耐磨性更优，带载行驶能力更强
- Better wear resistance, stronger load bearing capacity



制动系统

Brake system

- 脚踏板操纵的双回路气压制动，鼓式制动器
- Foot pedal operated double-circuit air pressure brake. The drum brakes are used for axles.
- 驻车制动：弹簧储能制动，作用于3、4轴车轮。
- Parking brake: spring-loaded brake, acting on the wheels of axles 3 and 4.
- 辅助制动：发动机排气制动、发动机缸内缓速制动
- Auxiliary brake: engine exhaust brake and engine retarder brake.

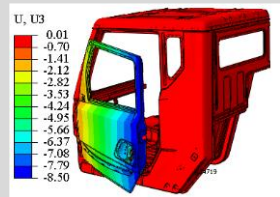
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操纵室

Operator's cab

- 新型钢制操纵室，装有无视野死角的前景窗，安全玻璃，车窗装有遮阳板，推拉式车门，带推拉踏板，方便人员进出。
- New steel cab with a full-view windshield, safety glass and sun shield. A sliding door and a pull-out step are designed for easy and safe access to the cab.
- 座椅靠背可倾斜定位，操纵杆安装在座椅两侧的扶手台上
- Adjustable operator's seat. Crane control levers are integrated into armrests.
- 标配冷暖空调
- Heater and air conditioner are available.





贴心人性化，使用更便捷

Consideration for humanized details, easier and faster operation

- 高光LED支腿照明灯，亮度提升40%，寿命提升五倍
- High-luminance LED outrigger working lamps, 40% increase in brightness, five-times improvement in service life.
- 大视野卷扬监视镜，卷扬工作更安全
- Wide view winch monitoring mirror, safer winch operation.
- 副臂双尖销轴，方便副臂穿轴
- Double cone pins are used for jib. It is more convenient to insert the jib pin.



全新门锁设计

Brand-new door lock

- 开关更自如，寿命更长久（10万次疲劳试验、5万次抨击强化试验），产品市场反馈率由2.68%降至0%，基本实现故障清零
- Easy to lock and unlock, longer service life (proven by 100,000 fatigue tests and 50,000 RET tests). Fault feedback rate is reduced from 2.68% to 0%, almost zero fault.



- 便捷式穿绳系统，无需拆解楔套，穿绳时间由35min降低至18min；
- A portable reeving system leads to reduction to 18 min in reeving time from 35 min, due to no need to disassemble wedge socket.



散热器、液压阀优化设计，提升高温环境下作业可靠性

Optimum design of radiator and hydraulic valve contributes to improvement in reliability of operation in high ambient temperature environment

- 优化散热器油口布置，增大散热器功率（18KW），散热性能提升15%，满足高温环境下连续作业要求
- Optimized arrangement of radiator oil ports and increased radiator power (18KW) lead to improvement in heat dissipation performance by 15%, which meets the requirements of continuous operation in high temperature environment.



精雕细琢，细节更精美

Every detail is crafted

- 整机外观细节全新设计，驾驶室内饰全面提升：防尘降噪高密封性两室、精工高光金属拉丝质感装饰、阻燃防滑易除尘精品地垫、热压成型封边无纺布顶棚、全新高精度长度角度传感器、模具成型铝合金臂头接线盒等
- New design of appearance details and improved decoration in driver's cab: cabs with high air tightness, artistic decoration, soft packaging instrument station, flameproof, antiskid and easy to clean floor mats, and hot press molding ceiling, new length/angle sensor with high precision and moulding aluminium alloy junction box.



铝合金燃油箱

Aluminum alloy fuel tank

- 外观质量好，耐腐蚀性能强
- Good appearance quality and strong corrosion resistance.
- 320L加大燃油箱，续航里程、作业时间更长
- 320 L enlarged fuel tank, longer travel mileage and operation time.



驾驶室

Driver's cab

- 精工高光金属拉丝质感装饰、真皮触感软包仪表台
- Artistic decoration, soft packaging instrument station
- 阻燃防滑，易除尘精品地垫、
- Flameproof, antiskid and easy to clean floor mat
- 主驾为机械减震座椅，可通过高度调节按钮进行调节
- A mechanical shock absorber seat is adopted for driver, which can be adjusted by height adjusting button.
- 副驾双座椅，可展开为简易卧铺
- A double-seat designed for the co-driver may be used as a berth for rest
- 标配冷暖空调
- Heater and air conditioner are standard



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XCMG have 12 complete solutions:Crane lifting,Mining Construction,Earth-moving Solutions,Road Machinery,Concrete Equipment,Tunnel and Underground Space Construction,Mobile Elevating Work Platform (MEWP),Piling and Non-excavation Equipment,Transportation Equipment, Environmental Sanitation Equipment,Firefighting,Safety and Emergency Rescue



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