XCA220_Y 全地面起重机 / All Terrain Crane

产品简介
Brief introduction

220 t

73m

108 m

XCMG
XCMG

全球起重性能最高的五轴220吨全地面起重机

The crane is a five-axle 220 t All Terrain Crane with leading lifting performance.

73m　8m　12~36m　74t

动力强劲，行驶性能优越

Power and traveling performance

■奔驰柴油发动机，额定功率360kw ，最大输出扭矩 2200N.m

■ Benz diesel engine, rated power 360kw, max. torque 2200N.m

■12速ZF自动变速箱

■12-speed ZF automatic gearbox

■最高车速80Km/h，最大爬坡能力67%

■Max. travel speed 84Km/h, Max. grade ability 67%

大吨位起重机单发动机系统

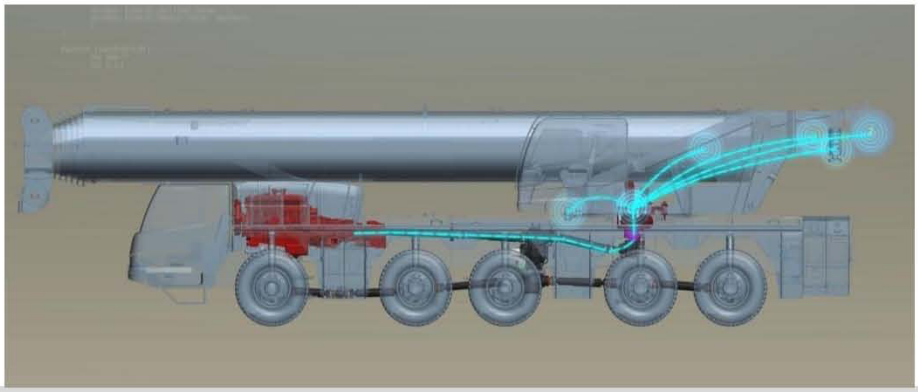
Large tonnage crane's mono-engine system

■整车共用底盘发动机，动力通过机械传动传递到上车，为上车提供动力。

■The whole vehicle shares the chassis engine. The power is transferred via the mechanic transmission to the upper body and supplies it with the power.

■仅需对底盘单台发动机系统进行维护保养，降低维护工作量。动力系统年维护费用节约40%以上。

■Maintenance is to be carried out only on the mono-engine chassis system thus reducing the workload of maintenance. The annual maintenance cost of dynamic system is saved for more than 40%.



悬挂系统

Suspension system

■自动调平、悬架升降、弹性刚性转换等功能

■Functions of automatic leveling, suspension lifting, elastic/rigid state switch-over

■油缸行程为-140mm～140mm

■Stroke of cylinder -140mm～140mm

制动系统

Brake System

■双回路气动盘式制动器

■Double-circuit air pressure brake, disc brake

■2、3、4、5桥弹簧贮能制动

■Axles 2, 3, 4and 5 with spring-loaded brake.

■辅助：发动机排气制动、发动机缸内缓速制动、变速箱缓速制动；

■Auxiliary : engine exhaust brake, engine compression brake , transmission retarder brake

转向系统

Steering system

■1、2轴机械控制+液压助力，3、4、5轴电控液压转向；

■1, 2 axles employs mechanical control plus hydraulic servo steering, 3, 4 and 5 axles are electric-control hydraulic steering.

■带有全轴应急转向助力系统，

■An all-axle emergency steering booster system located on the transfer case.

机动灵活

Manoeuvrable

■全桥转向，转弯半径小，三桥/四桥驱动自由切换，三驱用于公路行驶，行驶经济性高；四驱适应越野及场地转移，爬坡能力达到67%，行业最高。

■All-axle steering, small turning radius and free changeover of 6WD/8WD are available. 6WD is used to drive on roads, which is economic. 8WD is suitable for off-road travel and jobsite transfer. Max. grade ability is 67%, taking the lead in the industry.

6种转向模式

6 steering mode

■通过旋钮式开关选择转向模式

■Selection of steering mode by a knob switch

■清晰的控制原理及布局

■Clear layout of control elements and displays

起升机构

Hoisting mechanism

■行星齿轮减速器、常闭式制动器

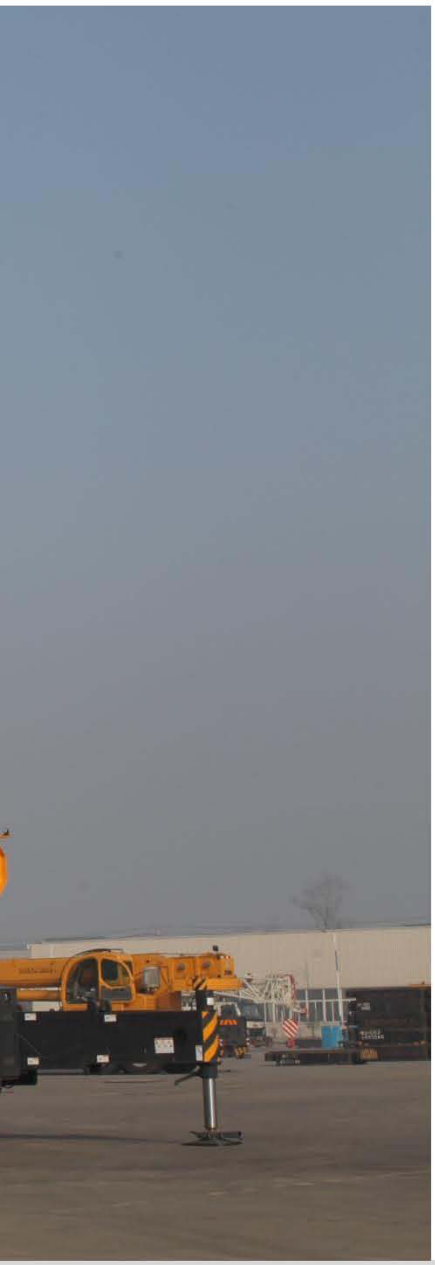
■Planetary gear reducer, normally closed brake

■最大单绳拉力为125KN

■Max. single line pull 125KN

■最大起升速度（单绳，空载）130m/min

■Max. hoisting speed (single line, no load) 130m/min



新型高效节能液压系统，

New highly efficient energy-saving hydraulic system

■起升和回转系统采用闭式液压系统，配备大排量泵，重载起升速度高

■Closed hydraulic system for lifting and slewing system, equipped with large-displacement pump, lifting speed with heavy load highly

■成熟的双变量机构精细调控策略，启停平稳

■Mature double-variable mechanism with fine control tactic, matching perfectly stably

■最低起升稳定速度（卷筒处）0.8-1m/min，最低稳定回转速度0.1°/s

■Min. stable lifting speed (at drum) 2.5m/min, and min. stable slewing speed 0.1°/s.

超强起重性能

Super lifting performance

- 7节主臂，长73m。固定副臂，长12m-44m
- 7-section boom of 73m.Fixed jib of 12m-44m
- 0°、20°和40°副臂安装角度
- 0°,20° and 40° jib offset angles

变幅机构

Elevating mechanism

■单变幅油缸，采用重力+动力下降模式

■Single elevating cylinder, gravity fall plus power lowing boom mode.

■带自补偿功能的电比例平衡阀，更安全

■Safer electric proportional balance valve with self-compensating function

回转机构

Slewing mechanism

■行星齿轮减速器、常闭式制动器

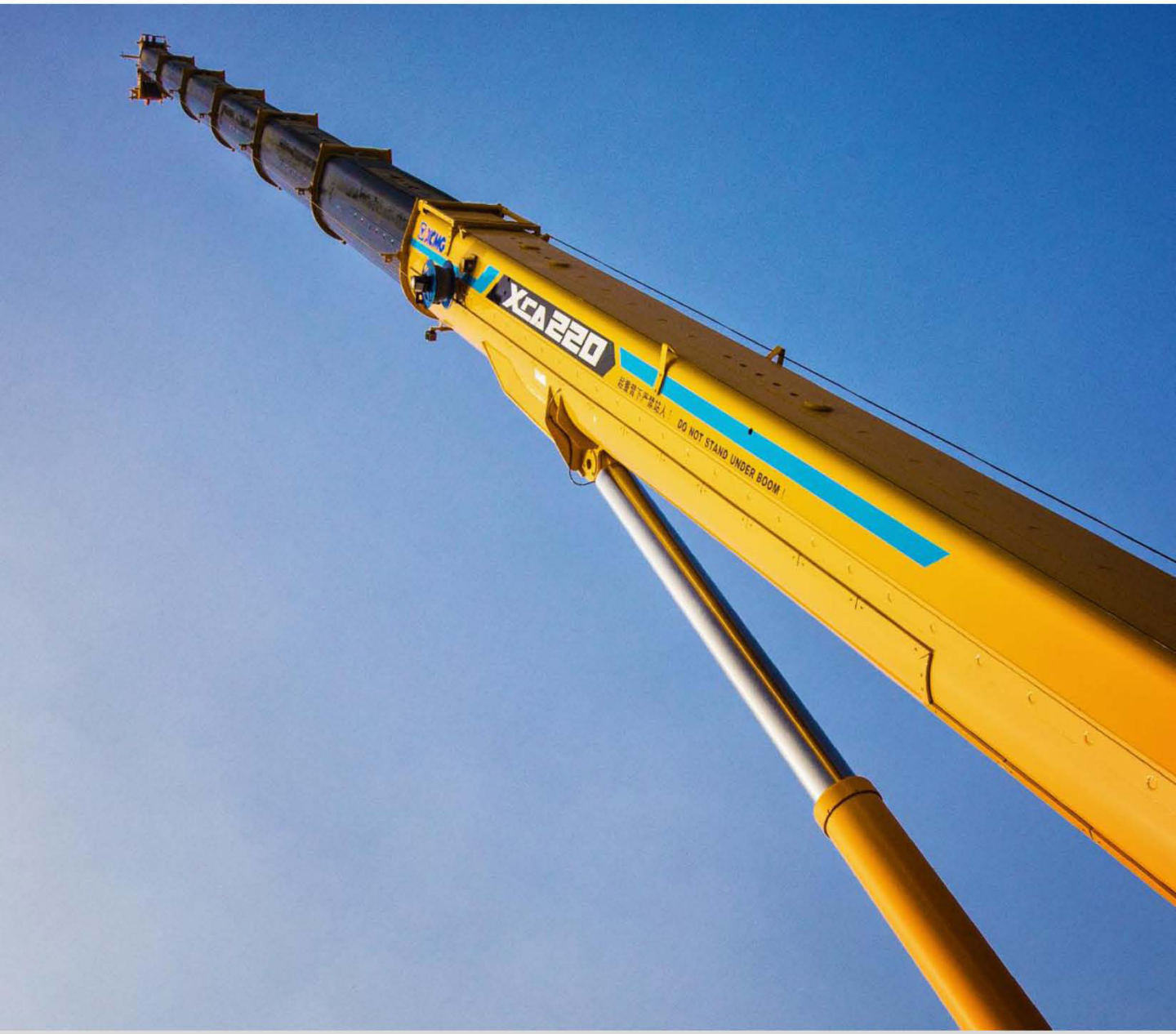
■Planetary gear reducer, normally closed brake

■360°连续回转

■Continuous 360° slewing

■回转速度为0-1.5r/min

■Slewing speed 0-1.5r/min



工况自动规划技术

Automatic working condition planning technology

■自动推荐最简便工况

■Automatically recommend the most proper working conditions

■简化查询与设置工况过程

■Searching and setting work condition simply

行驶智能、越野高效

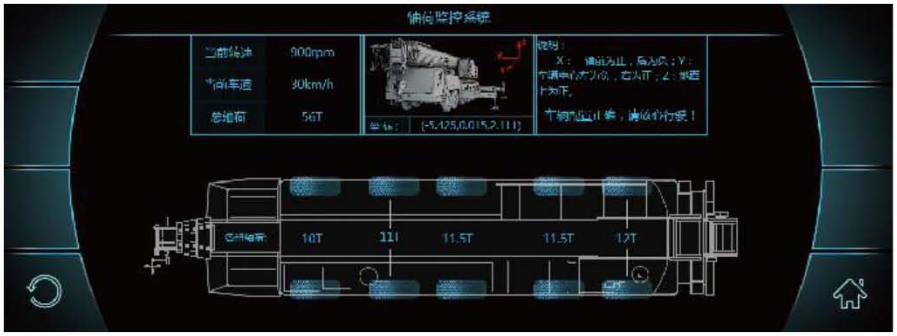
Intelligent travel and Efficient & excellent off-road performance

■行业首创的多模式驱动技术，实现分路况实时智能控制，使整车行驶状态达到最优，提升整车行驶的安全性与可靠性。

■ With first launched multi-mode drive technology in the industry , real-time intelligent control for various working conditions is realized so that the crane has optimized travel state and crane safety and reliability are improved.

■**轴荷监测技术**：通过轴荷监测，自动匹配相对应的最高档位，保障车辆行驶安全。

■**Axle load monitoring technology**: Proper gear (the highest gear engaged) and axle driving mode are matched automatically by axle load monitoring technology, which provides protection for crane safety in traveling.

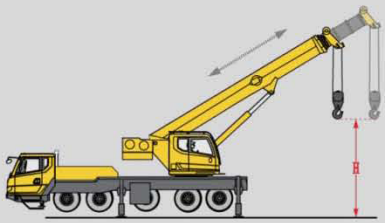


起重变幅补偿控制技术

Automatic elevating compensation technology

■通过控制起重机变幅角度，自动实现对起落钩时，吊臂变形引起的幅度变化进行补偿。

■With elevation compensation technology applied, elevation compensation caused by boom deformation can be achieved during hook block raising and lowering process through regulating the elevation angle of the crane.



卷扬随动控制技术

Winch servo control technology

■在伸缩、变幅时，由控制系统自主控制卷扬,节省作业时间40%以上。

■With winch servo control technology applied, winch is automatically managed by control system during telescoping and elevating operation, which saves operation time over 40%.

■具备变幅地面随动、伸缩地面随动、伸缩臂头随动三种模式

■There are 3 modes ：THB, THG, EHG

驾驶室
Driver's cab

- 12.3寸大镜面真彩色显示屏，显示更清晰
- 12.3 inch color display with large mirror surface makes indication clearer
- 主驾气悬浮座椅，自动调节高度
- An air-floating seat designed for the driver is automatically adjustable in height
- 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
- Air conditioner are standard

徐工人机交互系统

XCMG man-machine interactive system

■行业首发，用轿车级别的人机交互系统，实现了操作人员与车辆的友好对话。轻松掌控车辆行驶、起重作业的各种状态信息，操纵更轻松、便捷

■First launched in the industry man-machine interactive system with the level of a car achieves friendly conversation between operator and crane. Information of every state in driving and lifting operation is administered easily which makes operation easilier and more convenient.

新型外观造型与人性化设计

New appearance and humanized design

■新一代外观设计，整机刚劲有力，时尚的驾驶室与操纵室新外观，层次感与力量感完美结合;全面的人体工程学分析,人性化细节处理，打造驾驶轻松、操纵舒适，维护便捷的内在品质

■A new generation of appearance design makes the whole vehicle powerful and vigorous; Fashionable outlines of driver's cab and operator's cab bring perfect combination of sense of lays and sense of physical strength; ergonomics analysis and humanized details make inherent quality of easy driving comfortable operation and convenient maintenance

操纵室

Operator's cab

■全人机工学工作空间设计,作业更舒适，安全

■Ergonomically designed working space makes operation safer and more comfortable

■10.4寸真彩色触摸屏

■10.4 inch color touch screen displays

■20°可俯仰操纵室

■Operator's cab can be tilted 20° backwards

- 安全保护、吊装动作、操纵环境三个区域,控制便捷
- Three control areas for safely protection, hoisting operation and operating environment bring convenient control

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