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XCMG FOR YOUR SUCCESS



**XC6-3514V** 伸缩臂叉车  
**XC6-3514V Telescopic Forklift**



XC6系列伸缩臂叉车,是操控智能化程度高、安全高效的伸缩臂叉车产品。电控静压传动系统、无级变速驱动技术,操作更加平稳可靠;智能独立散热系统,节能高效。

XC6 is the latest XCMG<sup>®</sup> telescopic forklift which features the highest operation simplicity, safety and efficiency. The electronically controlled hydrostatic drive system and continuously variable drive technology achieve more stable and reliable operations. The intelligent independent cooling system features high energy-saving and efficiency.

XC6-3514V伸缩臂式叉车是在XC6-3514K平台基础上的改进升级设计,主要配置为:大柴国三发动机+电控静液压系统+徐工桥箱,主要性能机构特点如下:

XC6-3514V Telescopic Boom Forklift is improved, upgraded and designed on the basis of XC6-3514K platform, and its main configuration is: DC G-III engine + electrically-controlled hydrostatic system + XCMG axle box. The main performance, mechanism and features are shown as below:



## 一、动力传动系统 Power Transmission System

### 1. 发动机 Engine

· 采用大柴国三发动机, 动力性好, 扭矩储备大, 经济性好、燃油消耗和机油消耗低, 是专门针对工程机械作业工况精心设计制造并经过验证的优质产品。发动机排放满足中国第三阶段标准。

DC G-III engine is adopted which is featured by good power, high torque reserve, high economic efficiency, low fuel and oil consumption, and it's a superior product elaborately designed and manufactured for working condition of construction machinery and passed the verification. The engine emission meets the G-III standards.

· 动力系统采用双向减振技术, 全方位弹性悬挂, 有效克服动力系统与车架之间的共振, 降低噪音及动力系统的疲劳破坏。

Bidirectional vibration reduction is adopted for power system, realizing the all-round elastic suspension, effectively overcoming resonance between power system and frame, and reducing noise and fatigue rupture of power system.

· 大容量水箱, “风洞”式导风罩, 采用独立散热系统, 节能高效, 同时具有反转清洁功能。

Large-capacity water tank, "tunnel" wind scooper and independent cooling system are adopted, energy saving and high efficiency. Additionally, it's capable of reverse cleaning function.



### 2. 变速箱 Gearbox

配置徐工变速箱, 性能优越, 功能强大, 适应叉装机各种工况的使用要求; 前2后2档位设置, 电控换档, 操作轻松简便, 有效降低驾驶员操作强度。

XCMG gearbox is configured, which is advantaged by excellent performance and strong function, and can adapt to use requirements for different working conditions. It's designed with 2 forward gears and 2 reverse gears, and electrically-controlled gear shifting, easy and simple to operate, effectively reducing the driver's operation strength.

### 3. 驱动桥 Drive Axle

配置徐工免维护多片湿式制动桥, 具有弹簧制动, 液压释放的功能。湿式桥结构简洁紧凑, 内部系统不受外界污染, 制动片浸润在液压油里散热性好, 湿式制动因为全封闭可以实现免维护。

XCMG maintenance-free multi-plate wet brake axle is installed and capable of spring braking and hydraulic release function. The wet axle is of simple and compact structure, of which internal system is free of external pollution and brake disk shows good heat dispersion because it's soaked in hydraulic oil, so that wet brake axle can realize maintenance-free due to fully enclosed condition.

## 二、液压系统 Hydraulic System

· 转向系统采用负荷传感全液压转向系统, 优先阀将工作泵提供的液压油分别供给转向系统和工作系统, 当主机转向时, 泵主要满足转向系统的压力及流量要求, 提高了系统安全性。

Steering system adopts the load sensing fully-hydraulic steering system. Priority valve supplies the hydraulic oil provided by working pump to steering system and working system respectively. When the main engine turns, the pump shall meet the pressure and flow requirements for steering system, which improves system safety.

· 采用电控操作手柄, 操纵轻松自如, 在降低了司机的工作强度的同时, 满足易维护、故障率低的要求。

The electrically-controlled control lever is adopted, which is easy and flexible to operate, reduces driver's working strength and meets the requirement of easy maintenance and low failure rate.

## 三、制动系统 Brake System

· 整车采用全液压制动系统, 液压管路是全封闭回路, 可以避免大气中的粉尘污染油液而降低制动系统的可靠性, 操纵轻便、灵敏, 制动力与操纵力成比例放大, 低压报警, 实时监控。

The complete machine adopts fully hydraulic brake system and the hydraulic pipes are fully enclosed pipes, which can prevent dust in air from polluting oil and reducing the reliability of brake system. It's advantaged by simple and flexible to control, and the brake force and control force is amplified proportionally to realize low pressure alarm and real-time monitoring.

· 制动踏板集成寸进功能, 在整机制动过程中, 可提供整机在工作过程中需要的寸进特性, 实现微动功能, 使整机的车速按照制动踏板的角度比例可调, 运动平稳, 在寸进功能完成后才实施驱动桥的制动, 从而实现车辆的减速或制动。

The brake pedal integrates inching function. In the braking process, it can provide the required inching characteristics and realize jogging function to machine in working process, making the machine's speed proportionally adjustable according to angle of pedal angle, and making it move stably. The brake for drive axle is performed after inching function is completed to realize the deceleration or braking to machine.

## 四、驾驶室和操纵系统 Cab and Control System

· 全新造型的豪华舒适型驾驶室,密封减振,隔音降噪,内部空间大,视野开阔、内饰美观,操纵杆、仪表盘均按照人体工程学原理布置,操纵杆、按钮开关触手可及,配备舒适的悬浮座椅,使驾驶人员一直保持最佳舒适度,作业更轻松。驾驶室室内布置冷暖空调,多窗式立体送风,即快速除霜,完全满足操作者对冷暖的需要。

The luxury comfortable cab with brand-new style is featured by sealing and vibration reduction, sound insulation and noise reduction, large space, and designed with wide view and elegant interiors. The joystick and instrument panel are arranged according to ergonomic principle, and joystick and button switches are accessible. The comfortable suspension seat is configured, making driver keep in optimal comfort and easier to operate. HVAC&R is arranged in cab to realize multi-window three-dimensional ventilation, namely fast defrosting, which fully meets the refrigerating and heating requirement of operator.

· 座椅和方向盘四向可调,配置收放机、点烟器、电风扇、应急锤、灭火器、防滑地垫、配前、后雨刮器,驾驶室全密封设计,处处体现“以人为本”的设计理念,提供给操作者安全舒适的工作环境。

Seat and steering wheel can be adjusted from four directions. The cab is equipped with radio-cassette player, cigar lighter, electric fan, emergency hammer, fire extinguisher, non-slip mat, front and rear wiper, and adopts fully enclosed design, reflecting the design concept of "people-oriented" and providing a safe and comfortable working environment for operator.



## 五、力矩限制器系统 Torque Limiter System

该系统由称重传感器和控制显示器组成。系统通过检测后桥的形变来判断车辆是否超载。当车辆接近满载时,系统会通过红色指示灯提示操作者,当车辆超载时,系统会通过切断相关先导油路来限制大臂的伸出与降落。该系统性能稳定、可靠,可有效防止车辆倾翻。

The system is composed of weighing sensor and control display. The system judges whether the machine is overloaded through testing the deformation of rear axle. When the machine is about to be full-loaded, the system will prompt operator through red indicator light. When the machine is overloaded, the system will cut off relevant leading oil pipe to limit the extending and dropping of big beam. The system is stable and reliable in performance, and can effectively prevent machine from tipping over.

## 六、可维修性 Maintainability

· 发动机横向布置,各种油位检查、油液添加及润滑脂加注等保养点均布置在易于接近的部位,空滤器滤芯、电气设备等的检修拆换均可方便进行。

The engine is arranged laterally, and maintenance points (such as inspection of oil level, oil adding, lubricating grease refilling and others) are arranged at accessible parts, which is convenient for overhauling, dismantling and replacing air filter element, electric equipment and others.

· 采用大侧门、上翻式发动机罩,可使发动机、冷却系统等完全暴露,方便检查添加发动机机油位及更换滤芯,维护保养轻松简便。

The tilt-up engine hood with large side door is adopted to make engine, cooling system and others totally exposed, which is convenient for inspecting the oil level of engine, refilling oil and replacing filter element, easy and simple for maintenance.

· 并联结构集成式保险丝盒,整机电气集中控制,故障排查便利、高效。

The parallel structure integrates fuse box to realize centralized control for electric system of complete machine, which is convenient and efficient for troubleshooting.



## 七、车架 Frame

· 车架具备横向调平功能(车身可左右摆动10°),保证工地不平整时,车架始终保持水平,且车架前侧配置了支撑支腿,保证了高位叉举的稳定和安全,提高了整机作业范围及整机稳定性。

The frame is armed with function of lateral leveling (the body can swing to left and right for 10°), which can make sure frame is kept in level constantly even the workplace is not flat. What's more, the supporting legs are configured at front side of frame, making sure the stability and safety of high position forklifting and improving the operating range and stability of complete machine.

· 采用整体式车架,发动机、驾驶室分居在车架两侧,伸缩臂布置在中间位置,布置合理,结构简明,减少了压型和不规则焊缝,强化了重要承力部位,各关键铰点处均采用了坚实的安装座,能承受各种工况下的扭力及冲击载荷。为安全作业提供有效保障。

One-piece frame is adopted, and engine and cab is designed at both sides of frame, telescopic boom is arranged at middle position reasonably with simple structure, reducing the profiling and irregular weld joint and strengthening the important bearing parts. The key articulated points adopt solid installing seat, and can bear torque and impact load under different working conditions, and provide effective guarantee for safe operation.

## 八、工作装置 Working Device

· 工作装置采用三节伸缩臂结构,包括链条、伸缩油缸、变幅油缸、辅助调平油缸等,通过工作装置液压系统来控制伸缩臂的上下变幅及前后伸缩,臂架结构经过有限元分析优化,减少应力集中,结构紧凑,安全可靠,能满足各类恶劣工况。

The working device adopts three telescopic booms, including chains, telescopic cylinder, luffing cylinder, auxiliary leveling cylinder etc. The hydraulic system of working device is used to control the luffing and extending of telescopic boom. The boom structure is optimized through finite element analysis, reducing stress concentration, realizing compact structure, and it's safe and reliable, and able to meet different harsh working conditions.

· 伸缩臂前端配有时叉,设有单侧液压油缸补偿自动调平系统,在伸缩臂变幅过程中,能够自动控制货叉与地面始终保持同一角度,保证高位叉举的稳定和安全。

The fork is equipped at front end of telescopic boom, and designed with single-side hydraulic cylinder consumption automatic leveling system. In the luffing process of telescopic boom, it can automatically control fork to keep at the same angle with ground, and make sure the stability and safety of high position forklifting.

· 另外,可根据不同作业场合通过多功能快换机构选配不同属具。

In addition, the multi-functional quick-change mechanism can be equipped with different components and tools according to different working occasions.

XC6-3514V伸缩臂叉车可选配铲斗、作业平台、包夹等不同作业机具,满足不同的作业需求。

XC6-3514V telehandler can be equipped with bucket, work platform, bag clamp and other different work tools to meet different work needs.



1	2	3
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- 1.夹管钳 Pipe clamp
- 2.高空平台 platform
- 3.螺旋钻 Auger
- 4.包夹 Bag clamp
- 5.旋转侧移叉夹 Rotate the sideshift fork clamp
- 6.铲斗 Bucket
- 7.吊钩 Hook



# XC6-3514V

型号 Models		XC6-3514V	
额定载荷	Rated load	3500 kg	
工作质量	Working mass	10500 kg	
最大起升高度 (至货叉上平面)	Maximum lifting height (to upper surface of fork)	13500 mm	
最大起升高度时的有效载荷	Effective load at maximum lifting height	3000 kg	
最大前伸距 (臂水平, 载荷中心至轮胎前端)	Maximum front overhang (boom level, load center to front end of tire)	9400 mm	
最大前伸距时的有效载荷	Effective load at maximum front overhang	1250 kg	
载荷中心距	Load center distance	600 mm	
最大牵引力	Maximum traction force	≥60 kN	
载荷中心距	Center distance of load	500 mm	
最小离地间隙	Minimum ground clearance	445 mm	
轴距	Wheel base	3100 mm	
轮距	Wheel tread	1980 mm	
最小转弯半径 (轮胎外侧)	Minimum turning radius (outer side of tire)	≤4000 mm	
车架横向调整角 左/右	Lateral adjusting angle of frame Left/Right	10°	
工作装置 Work device	变幅时间 (升) s	Trolleying time (up), s	≤16
	变幅时间 (降) s	Trolleying time (down), s	≤11
	动臂伸出时间 s	Boom extending time, s	≤25
	动臂收回时间 s	Boom retracting time, s	≤12
	货叉架前倾时间 s	Time of fork arm carrier tilting forward, s	≤4
	货叉架后倾时间 s	Time of fork arm carrier tilting backward, s	≤4
伸缩臂变幅范围	Trolleying range of telescopic boom	-3°~68°	
货叉架倾角范围 (臂水平)	Dip angle range of fork arm carrier (boom level)	-12°~114°	
最高速度	Maximum traveling speed	30 km/h	
发动机 Engine	型号 Model	BF4M2012-10T3R/3	
	额定功率 Power	72 KW	
	额定转速 Speed	2200r/min	
轮胎规格Tire spec		15.5-25-16PR	
整机外形尺寸mmBoundary size, mm		长6200×宽2420×高2500 L×W×H = 6200×2420×2500	

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