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2024年04月22日

# LW180KE

轮式装载机 WHEEL LOADER





## 产品简介 Brief Introduction to the Product

- ▼ LW180KE 轮胎式装载机在保持原KV系列装载机外观风格及优点基础上，对产品排放、可靠型、舒适性、维修方便性进行升级。  
On the basis of keeping the appearance style and advantages of the former KV series loader, LW180KE wheel loader is upgraded in such aspects as emission, reliability, comfort and convenience in maintenance.
- ▼ 整机配置玉柴欧五发动机；全液压转向。可选多种工作装置(标准臂、高卸臂)及附属装置(快换铲斗、货叉、夹草钳、夹木钳等)。  
The motor of wheel loader is supplied YUCHAI engine, meeting the emission standard (EU Stage V), and the wheel loader is provided with fully hydraulic steering. Multiple types of working mechanisms (standard arm and high dumping arm) and auxiliary units (quick-charging bucket, pallet fork, grass clamp, wood clamp etc.) are optional.
- ▼ 液压油更换周期延长至3000小时，远超同行业水平，大大降低用户使用成本。  
Time interval to change hydraulic oil is extended to 3,000h, which is far beyond the industrial level and can bring about a large reduction in user's cost.

## 性能特长 Performance Characteristics

- ▼ 采用长轴距(2300mm)设计，适应各类超重工况，稳定性行业领先。  
Long wheel base (2,300mm) is adopted and applicable to all kinds of over-weighted operating conditions, featuring an industry-leading stability.
- ▼ 铲掘有力(LW180KE 掘起力 $\geq 55\text{kN}$ )，破断力强，各种物料举重若轻。  
High spading force (breakout force  $\geq 55\text{kN}$  for LW180KE) and breaking force, easy to deal with all kinds of heavy materials.
- ▼ 快速高效，行驶速度高达26km/h，行业最优。  
Rapid and efficient, running speed up to 26km/h, the best in the industry.
- ▼ 可配置2650-2950mm不同卸载高度，满足各种场合作业需要。  
Different dumping heights (2,650-2,950mm) can be configured to meet requirements on various operating conditions.

## 机型特点 Model Characteristics

- ▼ 徐工特有重载型传动及结构部件，勇担重责。  
The heavy-duty transmission and structural components solely owned by XCMG are competent.
- ▼ 流线型外观，大视野玻璃，造型美观，国际主流。  
Streamlined appearance, wide-field glass, attractive shape, mainstream in the world.
- ▼ 以人为本的设计，确保安全，降低疲劳，为您营造绝佳操作环境。  
People-oriented design to ensure safety, relieve fatigue and create an excellent operating environment for you.
- ▼ 可配液压先导，FOPS和ROPS驾驶室，空调、音响等，操纵舒适、驾驶安全。  
Hydraulic piloting, FOPS and ROPS cabs, air conditioning, speaker etc. are optional to provide user with a comfortable operation and safe driving.
- ▼ 接头采用24°锥+密封圈的双重密封形式，密封性更好，性能更加可靠；管路进行集中梳理，走向更加合理。  
Double seals of 24° cone + seal ring are adopted for joint, featuring a better tightness and a higher reliability of performance; pipelines are laid out in a concentrated manner, realizing a more reasonable route.
- ▼ 玉柴欧五发动机，结构紧凑可靠；电控单体泵经济性好；整机噪音低，机油散热效果好、效率高，真正达到节能环保。  
Motor supplied by YUCHAI EU Stage V has a compact and reliable structure, with an economical electronic unit pump, featuring a low overall noise, a good heat dissipation effect of motor oil and a high efficiency, so this motor can achieve the purposes of saving energy and protecting environment in the true meaning.
- ▼ 工作装置经CAE分析，能够满足在重载工况下的有效铲掘，专有设计的斗型能够更省力的插入料堆。耐磨材料的使用，大大提高铲斗使用寿命。  
After CAE analysis, it is found out that working mechanisms can realize effective spading under heavy loads and the buckets with special design can be inserted into the material piles more easily. Service life of bucket can be significantly extended by use of wear-resistant materials.
- ▼ 优化后的轻量前、后车架，强度可靠。  
Lighter front and rear frames with reliable strength are obtained after optimization.



## 澎湃动力 Surging Power

- ▼ 工程版小型装载机主动力发动机，欧五排放。  
Mainstreamed engineering-service motor for small loader, meeting emission standard (EU Stage V).
- ▼ 马力强劲，扭矩储备系数大，满足施工过程中瞬间超负荷要求，充分提供重载、大负荷作业所需动力。  
Strong power and high coefficient of torque reserve, to meet requirements on transient overload during construction and to fully provide power necessary for works under heavy loads.



## 徐工自制变速箱、专用变矩器

### Gearbox and Special Torque Converter made by XCMG

- ▼ 专用大容量变矩器，确保发动机动力被最大程度利用。  
Special large-capacity torque converter, to ensure the maximum use of motor power.
- ▼ 加强型设计，大模数齿轮，有效提升变速箱超载能力。  
Enhanced design and large module gear to effectively improve overload capacity of gearbox.
- ▼ 机械式变速箱，可靠、高效，维修方便。  
Mechanical control gearbox, reliable, efficient and convenient to repair.



## 性能卓越的加强型重载驱动桥

### Enhanced Heavy-duty Drive Axle with Excellent Performance

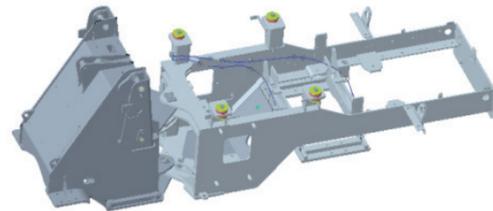
- ▼ 各承载部位饱满、厚实，整体式齿圈，大模数齿轮，具有良好的抗过载能力，满足各种高强度、高负荷作业需要。  
All bearing parts are full and thick, with integrated gear ring and large module gear, featuring a good resistance to overload to meet requirements on all kinds of high-intensity and high-load works.
- ▼ 超过82万次疲劳寿命试验，完全满足重载作业要求。  
More than 820,000 fatigue life tests, fully meeting the requirements on heavy-duty operations.



## 坚实的超强重载型结构件

### Firm and Reliable Super-strong Heavy-duty Structural Components

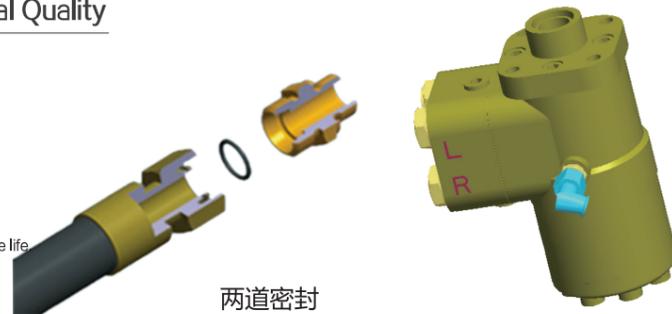
- ▼ 重载设计，厚板结构，机器人焊接，抗扭系数高，过载能力强。  
Heavy-duty design, thick-plate structure, welded by robot with a high torsional coefficient and overload capability.
- ▼ 采用有限元分析技术，减少应力集中，消除局部薄弱，车架耐冲击、抗超载，各种超重工况游刃有余。  
Stress concentration reduced and weakness in local area eliminated by use of finite element analysis technique; frame resistant to impact and overload, accomplishing various over-weighted operating conditions with ease.
- ▼ 主铰接点近似对中设计，减小转弯半径，降低轮胎磨损和能量损耗。  
Pivot point approximately centered, to reduce turning radius, tire wear and energy loss.



## 国际品质液压、电器元件

### Hydraulic and Electrical Elements with International Quality

- ▼ 液压部件全部采用国内顶级品牌。  
All hydraulic components are purchased from top brands in China.
- ▼ 线束采用进口品质材料，优化工艺布局，确保电路系统可靠。  
Harness is made of materials with imported quality; process layout is optimized to ensure a reliable circuit system.
- ▼ 国际品质胶管胶管，耐热、抗压，寿命长。  
Rubber hoses with international quality, resistant to heat and pressure and with a long service life.
- ▼ 液压管路采用国际DIN标准24° 锥加O型圈两道密封，密封性更好，有效解决渗漏难题。  
Hydraulic line subject to international DIN standard, i.e. two seals of 24° cone + O ring, with a better tightness to effectively deal with the problem of leakage.



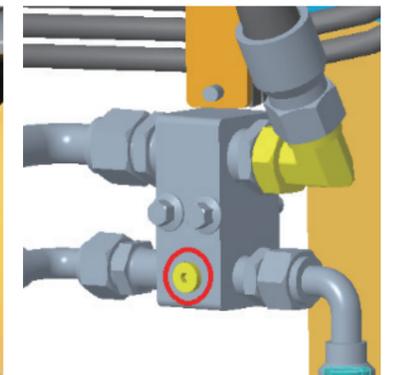
两道密封  
Two seals

- ▼ 超大空间(前后长度1550mm)豪华驾驶室，空间大，视野好。  
Luxury cab with extra-large space (front-back length being 1,550mm) and wide field.
- ▼ 采用高档仪表盘，满足个性化操作习惯要求。  
High-grade instrument panel, meeting personalized operation habits.
- ▼ 隔音降噪处理，整机驾驶室内噪音低，国际一流。  
World-class noise control in cab with noise insulation and reduction measures.
- ▼ 标配空调、音箱，提升驾驶员操作环境。  
A/C, Speaker provided for all models to improve operating environment of driver.
- ▼ 配置FOPS&ROPS驾驶室、液压先导操纵，提高操作舒适性。  
Configure FOPS&ROPS cab and hydraulic pilot control to improve operational comfort.



## 维修保养轻松便捷 Easy and Convenient to Repair and Maintain

- ▼ 可开启的前翻后机罩，发动机及水箱完全暴露，检修维护方便、便捷。  
Hood openable from front to back so that motor and water tank can be fully exposed to facilitate maintenance and repair.
- ▼ 油位检查、油液添加及润滑脂加注点均布置在易于接近部位，空滤器滤芯、电气部件易检、易换。  
The points for oil level inspection, oil filling and grease filling are all located in easily accessible positions, to facilitate the inspection and replacement of air filter element and electrical components.
- ▼ 系统压力检测口可外接测压接头，维护保养省时、省力。  
The system pressure detection port can be connected to an external pressure measuring joint, which saves time and effort in maintenance.
- ▼ 集中式保险丝盒，电器系统运行状况集中显现，维护方便。  
Operating conditions of electrical system can be displayed together due to a centralized fuse box, to facilitate the maintenance.





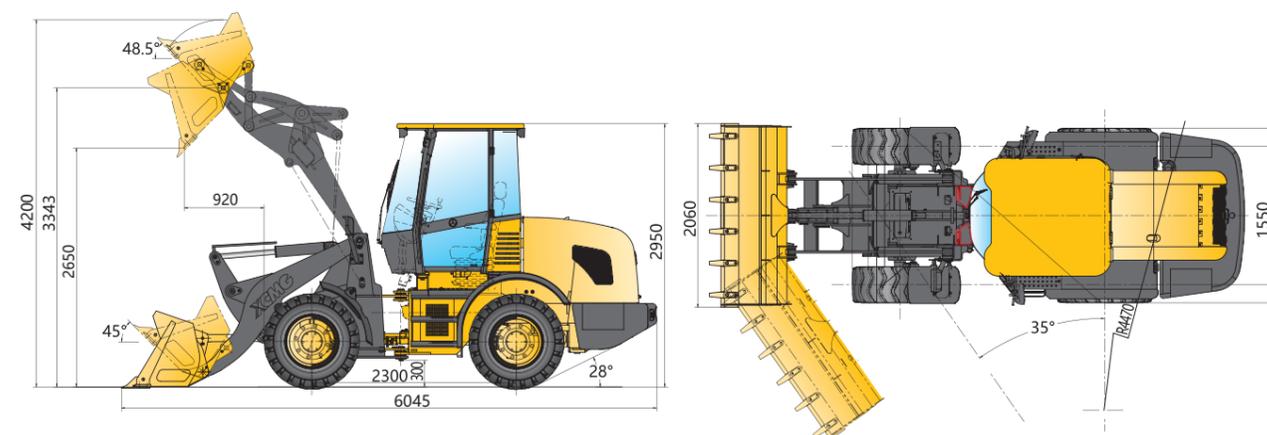
多种工作装置适应不同作业要求  
Various Working Mechanisms Adaptive to Different Operation Requirements



多功能机具参数 Parameters of Multi-purpose Machines and Tools

项目 Item	抓草机 Grass catcher	夹木钳 Wood clamp	滑叉 Sliding yoke	单位 Unit
额定载荷 Rated operating load	1800	1800	1800	kg
卸载高度(主刀板)(正卸) Dumping height (main cutting board) (positive dumping)	2780	2820	2750	mm
卸载距离(主刀板)(正卸) Dumping distance (main cutting board) (positive dumping)	1630	1100	1675	mm
平举高度 Height of lifting	3150	3150	3200	mm
最大卸载角 Maximum dumping angle	20	30	20	°
最大开口尺寸 Maximum opening dimension	2100		990(叉尺之间宽度可调) 990 (adjustable width between forks)	mm
最小抱圆直径 Minimum grab diameter	800	300		mm
机具长度 Length of machine & tool	1300	825	1350	mm
机具宽度 Width of machine & tool	1750	1325	1220	mm
机具高度 Height of machine & tool	1325	1415	1169	mm
叉齿长度 Length of fork			1070	mm

外形尺寸 Overall Dimensions



主要参数 Main Parameters

项目 Item	参数 Parameters		单位 Unit
	LW180K	LW180KE	
额定载荷 Rated operating load	1800		kg
斗容量 Bucket capacity	1.1	1.1	m <sup>3</sup>
整机工作质量 Overall operating mass	6200	6300	kg
卸载高度(标准斗主刀板至地面) Dumping height (main cutting board of standard bucket to ground)	2650-2950	2650-2950	mm
卸载距离(标准斗主刀板至前轮) Dumping distance (main cutting board of standard bucket to front wheel)	920-1000	920-1000	mm
轴距 Wheel base	2300	2300	mm
轮距 Tread	1550	1550	mm
最大提升时的铰轴高度 Hinge-axis height under maximum hoisting	3343	3343	mm
工作高度 Working height	4200	4200	mm
最大掘起力 Maximum breakout force	55	55	kN
最大牵引力 Maximum traction	45	48	kN
动臂提升时间 Lifting time of swing arm	5	5	s
三项和时间 Total cycle time	9	9	s
最小转弯半径(轮胎中心) Minimum turning radius (tire center)	4470	4470	mm
铰接角度 Articulation angle	35	35	°
爬坡能力 Gradeability	28	28	°
轮胎规格 Tire specification	16/70-20	16/70-20	
整机外形尺寸 长×宽×高 Dimension of main machine (L x W x H)	6030×2060×2950	6045×2060×2950	mm
发动机型号 Motor model	YC4D80-T20	YCF3675-S580	
排放标准 Emission standard	China II	EU Stage V	
额定功率/转速 Rated power/speed	58/2400	55.8/2200	kW/rpm
燃油箱容量 Capacity of fuel tank	110	110	L
液压油箱容量 Capacity of hydraulic oil tank	110	110	L
一档(前进/后退) First gear (forward/reverse)	9	9	km/h
二档(前进/后退) Second gear (forward/reverse)	26	26	km/h

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