



徐工徐工 助您成功
SOLID TO SUCCEED

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徐工官网
XCMG OFFICIAL WEBSITE



徐工服务号
XCMG SERVICE ACCOUNT



XDA45

铰接式自卸车

ARTICULATED DUMP TRUCK

41000kg
额定载重
Rated Load

390/1600kW/r/min
发动机额定功率
Engine Rated Power

25m³
货厢容积2:1堆装
Body SAE Heaped 2:1



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高效运行/High Efficiency in Operation

使用这台动力强劲、节能高效、操作舒适的矿山越野王，可实时满足全工况高效率作业需求。得益于机器的高可靠性设计，便捷的售后服务和出色的徐工全球营销网络，车辆的高可靠性，保证高效的出勤率。

This powerful, energy-efficient, and comfortable-to-operate mining off-road king can meet the demands of high-efficiency operations in all working conditions in real-time. Thanks to its highly reliable design, convenient after-sales service, and XCMG's outstanding global marketing network, efficient equipment operation is guaranteed.



XDA45铰接式自卸车，采用徐工专有实时六轮驱动技术、全地形行车自适应技术、整机安全驾乘综合控制技术、热能控制及管理技术、大流量液压倾卸系统稳定控制技术、智能化人机交互及诊断技术，整机具有高安全性、高可靠性、高智能化。动力强劲，节能降耗。维护保养方便，驾驶舒适性高。

The XDA45 features XCMG's proprietary real-time six-wheel drive technology, all-terrain adaptive driving technology, comprehensive machine safety control system, thermal energy control and management technology, high-flow hydraulic tipping system for stable control, and intelligent human-machine interaction and diagnostics. The machine boasts high safety, high reliability, and advanced intelligence. It offers powerful performance while being energy-efficient, and is easy to maintain and highly comfortable to drive.

可靠耐用/Reliable And Durable

应用了关键结构件焊接应力与变形仿真技术，准确预测在复杂结构件焊接过程中引起的变形和残余应力，优化焊接工艺。进行疲劳寿命分析预测技术研究，建立徐工专有的结构件焊接疲劳寿命分析方法，提升关键结构件生命周期。研究结构件应力消除技术，综合应用振动时效去应力，降低残余应力，大幅提升产品使用寿命。

By applying welding stress and deformation simulation technology for key structural components, deformation and residual stress caused during the welding of complex structures are accurately predicted, optimizing the welding process. Research on fatigue life analysis and prediction technology is conducted, establishing XCMG's proprietary welding fatigue life analysis method for structural components, which extends the life cycle of critical structural parts. Additionally, studies on stress relief techniques for structural components are carried out, with the comprehensive application of vibration aging to relieve stress, significantly reducing residual stress and greatly enhancing the product's service life.

服务访问/Service Access

我们始终秉承“全心全域全服务”的超值服务理念，凭借GPS物联网数字化平台，快速访问机器运行状态，维护您的机器是快速和轻松。按下机罩举升开关，机罩迅速打开，通过走台上的通道，允许充分和安全地进入发动机舱。

We consistently uphold the value-added service philosophy of "Total Commitment, Full Coverage, and Comprehensive Service." Leveraging our GPS IoT digital platform, we can quickly access machine operating conditions, achieving the fast and easy equipment maintenance. With the push of a button, the hood quickly opens, providing full and safe access to the engine compartment via the walkway.

徐工集团经销商网络/XCMG Dealer Network

徐工集团全球庞大的经销网络时刻为您提供支持，可以一站式为全球用户，提供涵盖销售、售后、融资的一体化高效便捷服务。我们建立了多样化的电商平台，致力于为客户提供方便快捷的产品选购与交流渠道。

XCMG's extensive global dealer network is always ready to provide support, offering one-stop, integrated services that cover sales, after-sales, and financing for customers worldwide. We have established diverse e-commerce platforms, dedicated to providing customers with convenient and efficient channels for product selection and communication.

逢山开路/Outstanding Off-Road Performance

这台“矿山越野王”具有出色的越野性能，其卓越的机动性、良好的通过性和极佳的环境适应性，为设备持续运行提供保障。

The XDA45 features exceptional off-road performance, with excellent maneuverability, good trafficability and remarkable environmental adaptability, ensuring continuous operation of the equipment.

全地形作业 All-Terrain Operation

前后车架为铰接结构，转弯半径小，全时6×6驱动，驱动能力强，全地形悬架及自适应控制技术，可以让您放心进入泥泞湿滑及空间限制的工作环境，并爬上更陡的坡。

With its articulated frame structure, small turning radius, and powerful 6×6 all-wheel drive, all-terrain suspension and adaptive control technology allow it to confidently navigate muddy, slippery, and spatially restricted work environments, even climbing steeper slopes.

出色的制动性能 Excellent Braking Performance

湿盘制动器，安全可靠，同时配置发动机制动，保证了车辆下坡路况的安全性。

Featuring a reliable wet disc brake system, along with engine brake, the truck ensures safety on long downhill stretches.

高效回报 Efficient Return

原装国际知名品牌液压系统，配合高品质液压元件，采用泵控液压系统和负载敏感转向系统，各系统间独立运行，提升了系统的稳定性和故障排查的便捷性，保证高效率作业。

Featuring an original international brand hydraulic system combined with high-quality hydraulic components, the truck uses a pump-controlled hydraulic system and a load-sensing steering system. Each system operates independently, enhancing stability and ease of trouble shooting, and ensuring efficient operation.

矿山越野王/Off-Road King of Mines

舒适驾乘/Comfortable Driving and Riding Experience

符合ISO防落物标准的FOPS驾驶室，空间宽敞，视野开阔。各种显示仪表、报警器、照明、控制开关、收音机等配备齐全。司机座椅为可调气悬浮式减振高靠背座椅，配备副驾驶座椅。配备组合式仪表、可倾斜伸缩式方向盘、电动风档雨刷及清洗器、冷暖空调。车辆运行数据及故障报警项目采用液晶显示器进行显示。

The cab complies with ISO falling object prevention standards (FOPS), offering a spacious interior and excellent visibility. It is equipped with various display instruments, alarms, lighting, control switches, and a radio, ensuring comprehensive functionality. The driver's seat features an adjustable air-suspended high-back design, accompanied by a passenger seat for added comfort. Additional amenities include a combination instrument panel, a tiltable and telescopic steering wheel, electric windshield wipers and washers, tinted glass, and climate control for heating and cooling. Vehicle operating data and fault alarms are displayed on a liquid crystal display, providing clear and accessible information for the operator.

突破多项核心技术，主要有：

- 整车全地形悬架及自适应控制技术
- 智能分级制动控制与两级转向技术
- 大负荷减振缓冲控制技术
- 智能化人机交互及诊断技术
- 关键结构件疲劳寿命提升技术

Breakthroughs in several core technologies include:

- All-terrain suspension and adaptive control technology for the whole vehicle;
- Intelligent graded braking control and two-stage steering technology;
- High-load vibration damping and buffering control technology;
- Intelligent human-machine interaction and diagnostic technology;
- Fatigue life enhancement technology for key structural components.

精准转向/Precise Steering

进口变量柱塞泵提供转向油源，流量放大式液压转向，方向盘路感较好、转向响应精度高、转向平稳。

The plunger pump with inlet variable displacement provides the steering with oil sources. The flow amplification hydraulic steering gives a better road feedback from the steering wheel, high steering response accuracy, and smooth steering performance.

节能环保/ Energy-Saving and Environmentally Friendly

原装进口MTU发动机，动力强劲，低排放，低噪音，大大减少对环境危害。与同级别产品对比拥有强大的牵引力、保证设备快速高效工作，提升设备通过性。坚固耐用、油耗低，可满足多种工况需求。久经考验、坚固耐用的部件和精密的制造工艺，使得该系列产品拥有更高的可靠性和高效性。

The original imported Mercedes-Benz engine delivers powerful performance with low emissions and low noise, significantly reducing environmental impact. Compared to products in the same class, it offers superior traction, ensuring fast and efficient operation, and improving the vehicle's passability. The engine is durable and fuel-efficient, meeting the demands of various working conditions. Proven, robust components and precise manufacturing ensure that this series of products offers greater reliability and efficiency.

制动系统/Brake System

采用全液压湿盘式制动系统，该系统确保了车辆的高制动性能和长使用寿命，即使在泥泞的路面，仍保证车辆具有良好的制动性。配置强劲的发动机制动功能，在下坡时可以稳定地控制车速，在弯道或十字路口前可用来减速，从而可以减少行车制动器的使用和磨损。驻车制动：弹簧加载，气压释放。

The fully hydraulic wet disc brake system ensures excellent braking performance and long service life, even on muddy roads, maintaining reliable braking. It is equipped with a powerful engine braking function, which allows stable speed control when driving downhill and can be used to slow down before curves or intersections, reducing the use and wear of the service brakes. The parking brake: spring-applied and air-released.

液压系统/Hydraulic System

原装国际知名品牌液压系统，配合高品质液压元件，采用泵控液压系统和负载敏感转向系统，各系统间独立运行，提升了系统的稳定性和故障排查的便捷性，保证高效率作业。

Featuring an original international brand hydraulic system combined with high-quality hydraulic components, the truck uses a pump-controlled hydraulic system and a load-sensing steering system. Each system operates independently, enhancing stability and ease of troubleshooting, and ensuring efficient operation.

承载强劲/Strong Load Capacity

货厢采用全焊接结构，由高强度NM400耐磨钢板制造，坚固耐用；倾卸角度大，倾卸离地间隙大，装载高度低，极利于物料的快速装卸。平底尾翘式，岩石型，安装橡胶减振块。

The dump body uses all-welded structure and made of the high strength wear-resistant steel plate NB400, making it sturdy and durable. It has a large dumping angle and ample ground clearance during unloading, with a low loading height that facilitates quick loading and unloading of materials. The flat-bottom, up-tail and rock-type design includes rubber damping blocks for added stability.

高稳定性/High stability

油气悬挂与A型架结合，保证车辆具有良好的车辆稳定性与越野性能；悬架结构能够改善恶劣路面对整个车的冲击，提高整车的平顺性及操纵稳定性。

The combination of oil-gas suspension and an A-frame ensures excellent vehicle stability and off-road performance. The suspension structure effectively mitigates the impact of harsh road conditions on the entire vehicle, enhancing ride comfort and handling stability.

举升控制/Lifting Control

货厢举升动作通过一个举升阀组，操纵两个单级双作用、伸缩式油缸完成。

The dump body lifting operation is controlled by a lifting valve group, which operates two single-stage, double-acting telescopic cylinders to complete the lifting action.



舒适控制/Comfortable Control

采用宽敞的驾驶室和舒适的工作环境使XDA45成为客户的首选。它卓越的舒适性、控制性、易操作性和安全性吸引着操作员，有助于保持高效的出勤率。

The spacious cab and comfortable working environment make the XDA45 a top choice for customers. Its exceptional comfort, control, ease of operation, and safety appeal to operators, helping to maintain high efficiency and uptime.

智能管控/Intelligent Control and Management

基于智能化及信息化技术，开发专用的整机智能监控系统，随时对车辆运行状况和相关数据进行记录，针对影响行车安全的非规范操作或故障，实现智能限速；通过GPS数据传输和定位技术，实现远程数据监控；全面收集车辆运行数据，并进行详细的数据处理、分析和存储，用于指导智能化程序的开发。根据铰接式自卸车的结构特点，制定独特的控制逻辑，自主编程，并于发动机及变速箱的主程序进行对接，实现整机特殊工况下的智能减速或停机。

Based on intelligent and information technologies, a dedicated intelligent monitoring system for the entire machine has been developed. It continuously records vehicle operating conditions and related data. In response to non-standard operations or malfunctions that affect driving safety, the system enables intelligent gear and speed restrictions. Through GPS data transmission and positioning technology, remote data monitoring is achieved. The system comprehensively collects vehicle operating data, which is then processed, analyzed, and stored in detail to support the development of intelligent programs. Considering the structural characteristics of the articulated dump truck, a unique control logic is designed and independently programmed. It interfaces with the main engine and transmission programs, allowing for intelligent deceleration or shutdown under special operating conditions.

易于操作/Easy to Operate

人机交互技术，操纵元件布置设计科学、合理，灵活的转向、舒适的控制，保证驾驶员操作使用的便捷性与舒适性。

With human-machine interaction technology, the scientifically and reasonably arranged control elements ensure flexible steering, comfortable control, and convenient and comfortable operation for the driver.



安全舒适/Safe and Comfortable

人体工程学设计驾驶室，符合ISO防倾翻/防落物标准的ROPS&FOPS驾驶室，空间宽敞，视野开阔，配置了舒适安全的可调气悬浮式座椅。驾驶室和机罩均为可翻转设计，并配备安全支撑装置，维修方便，安全高效。

The ergonomically designed cab meets ROPS and FOPS standards, offering a spacious interior and expansive views. The adjustable air suspension seat provides enhanced comfort. The cab and engine hood are both designed to be tiltable and are equipped with safety support devices, ensuring convenient, safe, and efficient maintenance.

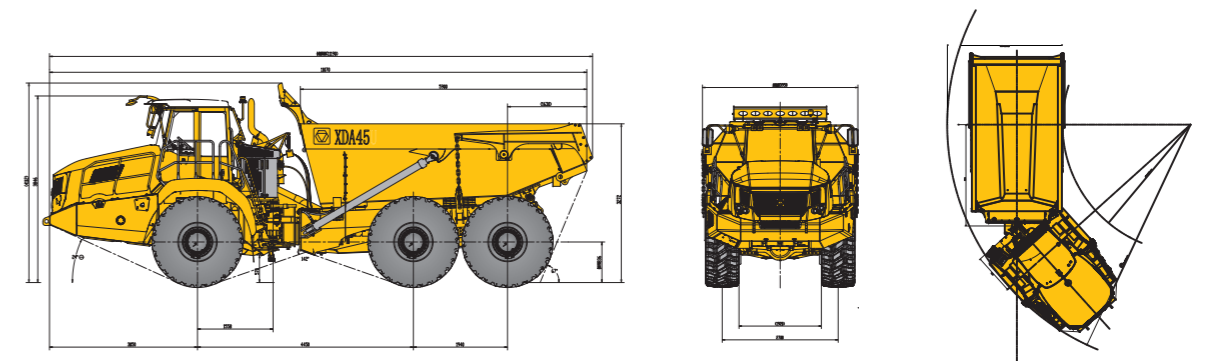


详细介绍/Detailed Introduction

| 项目/Item | 单位/Unit | 参数/Parameter |
|---|----------------|--------------|
| 发动机/Engine | | |
| 发动机型号/Engine model | Benz | OM471 |
| 发动机额定功率/Engine rated power | kW | 390 |
| 发动机马力/Engine horsepower | hp | 530 |
| 发动机额定转速/Engine rated speed | r/min | 1600 |
| 最大扭矩/Maximum torque | Nm | 2600 |
| 电气系统/Electrical system | | |
| 电压/Voltage | V | 24 |
| 电池/Battery | V | 2×12 |
| 电池容量/Battery capacity | Ah | 2×75 |
| 交流发电机/Alternator | KW/A | 2.8/100 |
| 启动电机/Motor start | Kw | 7 |
| 传动系统/Transmission system | | |
| 变速箱/Transmission | Allison | 4800ORS |
| 分动箱/Transfer case | Kessler | W4640 |
| 车桥/Axle | Kessler | 27T |
| 驾驶室/Cab | | |
| 驾驶室内部噪声/Cab interior noise | dB | 74 |
| 外部噪声/Exterior noise | dB | 105 |
| 液压系统最大工作压力/Maximum working pressure of hydraulic system | Mpa | 27.5 |
| 举升角度/Lifting angle | ° | 70 |
| 举升时间/Lifting time | s | 12 |
| 降落时间/Lowering time | s | 13 |
| 货厢/Dump body | | |
| 板厚/Plate thickness | / | / |
| 前板/Front plate | mm | 8 |
| 侧板/Side plate | mm | 12 |
| 底板/Bottom plate | mm | 16 |
| 材料/Materials | / | NM400 |
| 货厢容积/Body capacity | | |
| 标准货厢/Standard dump body | / | / |
| 额定载重/Rated load capacity | kg | 41000 |
| 平装/Struck capacity | m ³ | 19.5 |
| 2:1堆装/2:1 Heaped capacity | m ³ | 25 |
| 带后挡板/Rear tailgate | / | / |
| 平装/Struck capacity | m ³ | 20 |
| 2:1堆装/2:1 Heaped capacity | m ³ | 26 |

技术规格/Technical Specification

| 项目/Item | 单位/Unit | 参数/Parameter | 项目/Item | 单位/Unit | 参数/Parameter |
|---|---------|--------------|-------------------------|---------|--------------|
| 填充容量/Filling capacity | | | 速度/Speed | | |
| 曲轴箱/Crankcase | L | 40 | 前进/Forward | — | — |
| 燃油箱/Fuel tank | L | 500 | 1 | km/h | 4.2 |
| 冷却系统/Cooling system | L | 100 | 2 | km/h | 6.3 |
| 变速箱/Transmission | L | 48 | 3 | km/h | 14.8 |
| 分动箱/Transfer case | L | 11 | 4 | km/h | 19.7 |
| 车桥/Axle | L | 165 | 5 | km/h | 28.2 |
| 液压油箱/Hydraulic oil tank | L | 250 | 6 | km/h | 38.3 |
| 制动冷却系统/Brake cooling system | L | 200 | 7 | km/h | 47 |
| 空载工作重量/Non-load operating weight | | | 后退/Reverse | | |
| 轮胎/Tires | — | 29.5R25 | 1 | km/h | 6.7 |
| 前面/Front | kg | 17000 | 总重量/Total weight | | |
| 后面/Rear | kg | 17000 | 轮胎/Tires | — | 29.5R25 |
| 合计/Total | kg | 34000 | 前面/Front | kg | 22500 |
| 有效载荷/Effective payload | kg | 41000 | 后面/Rear | kg | 52500 |
| | | | 合计/Total | kg | 75000 |



| 类别/Categories | 项目/Item | 单位/Unit | 参数/Parameter |
|------------------------------|-------------------------------|---------------------------------|--------------|
| 尺寸参数 Dimension parameters | 整机全长/Overall length | mm | 11070 |
| | 整机全宽/Overall width | mm | 3950 |
| | 整机全高/Overall height | mm | 3846 |
| | 前中轴距/Front-middle wheelbase | mm | 4450 |
| | 中后轴距/Middle-rear wheelbase | mm | 1940 |
| | 轮中心距 Wheel center distance | 前轮/Front wheel 后轮/Rear wheel | mm |
| 重量参数 Weight parameters | 整车总质量/Gross weight | kg | 75000 |
| | 额定载重/Rated payload | kg | 41000 |
| | 空载车重/Non-load weight | kg | 34000 |

主配置及参数/Main Configuration and Parameters

| | |
|-------------------------------------|-----------------|
| 发动机/Engine | Benz OM471 |
| 变速箱/Transmission | Allison 4800ORS |
| 分动箱/Transfer case | Kessler |
| 车桥/Axle | Kessler |
| 额定功率/kW/Rated power (kW) | 390 |
| 2:1堆装容积/m³/2:1 Heaped capacity (m³) | 25 |

安全/Safety

| | |
|--|---|
| 防滑台阶和平台/Anti-slip step and platform | ● |
| 转向限位锁/Steering limit lock | ● |
| 货厢安全限位锁/Dump body safety limit lock | ● |
| 扶手/Handrail | ● |
| 驾驶室后窗防护网/Cab rear window guard net | ● |
| 后视镜/Rearview mirror | ● |
| 电动加热后视镜/Electric heated rearview mirror | ○ |
| FOPS&ROPS驾驶室/FOPS&ROPS cab | ● |
| 雨刮器/Wiper | ● |
| 应急转向/Emergency steering | ● |
| 手持式灭火器/Hand-held fire extinguisher | ● |
| 自动灭火系统/Automatic fire extinguishing system | ○ |

动力传动系统/Power transmission system

| | |
|--|---|
| 非道路欧三/国三排放/Non-road EU stage III/National III emissions | ● |
| 非道路国四排放/Non road National IV emissions | ● |
| 非道路欧五/美国T4排放/Non-road EU stage V/US Tier 4f emissions | ● |
| 冷启动系统/Cold Start System | ○ |
| 发动机延时熄火/Engine delay shutdown | ● |
| 便于操作的机油放油阀/Conveniently operated oil drain valve | ● |
| 解压缩制动/Decompression brake | ● |
| 带限滑差速器的车桥/Axle with limited slip differential | ● |
| 全自动变速箱/Automatic transmission | ● |
| 带自锁的液力变矩器/Hydraulic torque converter with self-locking | ● |
| 带纵向差速锁的分动箱/Transfer case with longitudinal differential lock | ● |

货厢//Dump body

| | |
|--|---|
| 高强度耐磨货厢/High-strength wear-resistant dump body | ● |
| 货厢加热套件/Dump body heating kit | ● |
| 前部防落物护板/Front falling object protection plate | ○ |
| 货厢后挡板组件/Dump body rear tailgate assembly | ○ |

轮胎/Tires

| | |
|---------|---|
| 29.5R25 | ● |
|---------|---|

电气系统/Electrical system

| | |
|--|---|
| 蓄电池隔离开关/Battery isolation switch | ● |
| 双级隔离开关/Double-stage isolation switch | ○ |
| 启动跳接器/Start jumper | ● |
| 24V电源插口/24V power socket | ● |
| 12V电源插口/12V power socket | ○ |
| LED前大灯/LED headlights | ● |
| LED倒车灯/LED reverse lights | ● |
| LED工作灯/LED work lights | ● |
| LED信号灯/LED signal lights | ● |
| 报警灯/Alarm light | ● |
| 按键背光灯/Key backlight | ● |
| 驾驶室照明灯/Cab lighting | ● |
| 电动超高音喇叭/Electric ultra-high pitch horn | ● |
| 倒车报警器/Reversing alarm | ● |

制动系统/Brake system

| | |
|-------------------------------------|---|
| 装载和倾卸制动/Loading and dumping brake | ● |
| 气控驻车制动/Air-controlled parking brake | ● |
| 全桥湿式制动/Full axle wet brake | ● |

舒适性/Comfort

| | |
|---|---|
| 气悬浮两点式安全带座椅 /Air-suspended two-point seat with seatbelt | ○ |
| 气悬浮三点式安全带座椅/Air-suspended three-point seat with seatbelt | ● |
| 带安全带的教练座椅/Instructor seat with seatbelt | ● |
| 点烟器/Lighter | ● |
| 推拉窗/Sliding window | ● |
| 带USB接口的收音机及音响系统/Radio and audio system with USB interface | ● |
| 遮阳板/Sun visor | ● |
| 可伸缩和倾斜的方向盘/Telescopic and tiltable steering wheel | ● |
| 提供新鲜空气的空调系统 /Air conditioning system providing fresh air | ● |
| 驾驶室增压系统/Cab pressurization system | ○ |
| 机罩电动开启/Electric hood opening | ● |

维护和保养/Maintenance and servicing

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| 自动集中润滑系统/Automatic centralized lubrication system | ○ |
| 燃油快速加注系统/Quick fuel filling system | ○ |
| 油液集中加注及采样系统//Centralized oil filling and sampling system | ○ |
| 超低温套件/Ultra-low temperature kit | ○ |
| 轮胎充气工具/Tire inflator | ○ |
| 悬挂缸充氮工具/Suspension cylinder nitrogen filling tool | ○ |
| 随机工具箱/Onboard toolbox | ● |