

**BROOKS**  
EQUIPMENT



# POWERFUL PERFORMANCE



**ARTIC. DUMP TRUCK**

# XDA30

Product Specifications

OPERATING WEIGHT  
30 t

RATED POWER  
280/2100 kW/rpm

KERB WEIGHT  
27 t

ENGINE  
YuChai YCK11

## SPECIFICATIONS

XCMG's XDA30 articulated dump truck is designed for use on the toughest mine and construction sites. Built with a powerful drivetrain, superior hauling performance, excellent manoeuvrability and efficiency, it's suitable for a wide range of applications. Meeting Euro V emissions standards, it's designed to run continuously in an operating environment of -25°C to 40°C.

## FEATURES

### ■ ENERGY SAVING & ENVIRONMENTALLY FRIENDLY

Powered by a YuChai engine that has high power, low emissions and low noise, environmental footprint is minimised. Compared with products of the same size class, it has more powerful traction force, higher working efficiency and enhanced roading ability. It's durable, robust and excels in a multitude of operating environments. Extensively tested systems and compartments as well as precise manufacturing techniques contribute to higher reliability and higher productivity value for this class of equipment.

### ■ HIGHLY EFFICIENT RETURNS

Advanced hydraulic system controls with variable displacement pumps and load sensing steering system ensure independent operation of each system, which not only improves system stability but also makes it convenient for trouble shooting, ensuring highly efficient equipment operation.

### ■ KEY CORE TECHNOLOGY

Whole vehicle all-terrain suspension and adaptive traction control technology  
Highly responsive retarding and braking controls  
High hoist capacity with cushioning technology  
Intelligent man-machine interface and diagnostic technology  
Enhanced fatigue life optimisation of critical structural parts

### ■ RELIABLE & DURABLE

Utilising simulation technology of welding stress and deformation, possible distortion and residual stresses are precisely predicted during the welding process of complicated structural components and parts, allowing optimised welding techniques. Post-manufacturing residual stress elimination technology and methods greatly improve service life of parts.

### ■ INTELLIGENT MANAGEMENT & CONTROL

GPS data transmission and positioning technology enables remote data monitoring for analysis of the operating machine and worksite.

Intelligent systems monitor the overall machine, recording its running state in real time, applying speed and gear limiting technologies to help prevent damage or unsafe operations.

The integration with engine and transmission software enables the machine to automatically stop under certain operating conditions with the appropriate machine options installed and activated.

### ■ COMFORTABLE CABIN

The operator's cab is designed according to ergonomic engineering guidelines. ROPS & FOPS are in accordance with ISO safety operation standards. The cab has a large interior space and a wide angle of view as well as a safe, comfortable and adjustable air-suspending seat with vibration reduction functions, a front passenger seat.

Featuring a radio, instrument display cluster and machine controls, telescopic steering wheel, electric windscreen washer/wiper, pigmented glass, heating, ventilation and air-conditioning unit with associated controls. Vehicle running data and fault alarm information are shown on a controllable combined colour display with the camera view. Both the cab and the engine hood can be tilted to provide access for convenient maintenance.



#### KEY CONFIGURATIONS

##### ■ POWER SYSTEM

Engine Manufacturer: China YuChai  
Model: YCK11  
Rated power: 290 kW / 2100 rpm  
Max. torque: 1900 Nm / 1100-1400 rpm  
Pattern: 6-cylinder water cooling, turbo charging with inter-cooling, multi-point electronic injection diesel engine

##### ■ MACHINE STRUCTURES

The structures consist of the articulating hitch, front frame and rear frame. The articulated hitch allows the rear frame to make free swing and rotary movements in relation to the front frame, ensuring that all drive wheels are in full contact with the ground, which generates outstanding mobility and stable high-speed hauling capacity. The articulated hitch is used of casting, front frames and rear frames are made of high quality, low alloy, high strength steel, manufactured with advanced welding technology.

Crucial welding seams have 100% ultrasonic weld inspection. The frames are developed using computer assistant design and finite element analysis.

##### ■ TRANSMISSION SYSTEM

Model: Allison 4500 ORS  
Gear: 6 forward gears, 1 reverse gear  
Max. output torque: 20,000 Nm  
Transfer box: Kessler W4664  
Axle: heavy duty, planet hub reduction gear and inter-axle differential lock control

##### ■ DUMP BODY

The dump body is a fully welded structure, made from a high-strength HB400 anti-wear steel plate for rigidity and durability. Achieving a large angle when fully raised, the significant ground clearance and low loading height are favourable traits for quick loading and dumping. A flat bottom with an angled departure plane to the rear, achieves better payload retention and smoother payload flow during dumping. The body is mounted on multiple rubber cushioning blocks for optimum weight distribution.

##### ■ SUSPENSION SYSTEM

Hydro-pneumatic suspension with A-frame support ensures vehicle stability and off-road performance; the suspension structure absorbs the impact on the vehicle caused by harsh road conditions, allowing it to run smoothly and stably.

##### ■ STEERING

Hydraulic Metering Unit sourced from a globally renowned supplier, offers amplified oil flow for steering movement. It provides a precise steering response and smooth steering movement.

##### ■ BRAKE

The drum brake system guarantees excellent braking performance and a long service life, showing good breaking performance, even on muddy roads.

The strong engine retarder consistently provides high retarding power to maintain a stable speed through corners, before a crossing, or on a downward slope, reducing the application of service brakes, lowering operating costs and guaranteeing the operator and site safety. The parking brake is spring loaded and pressure released.

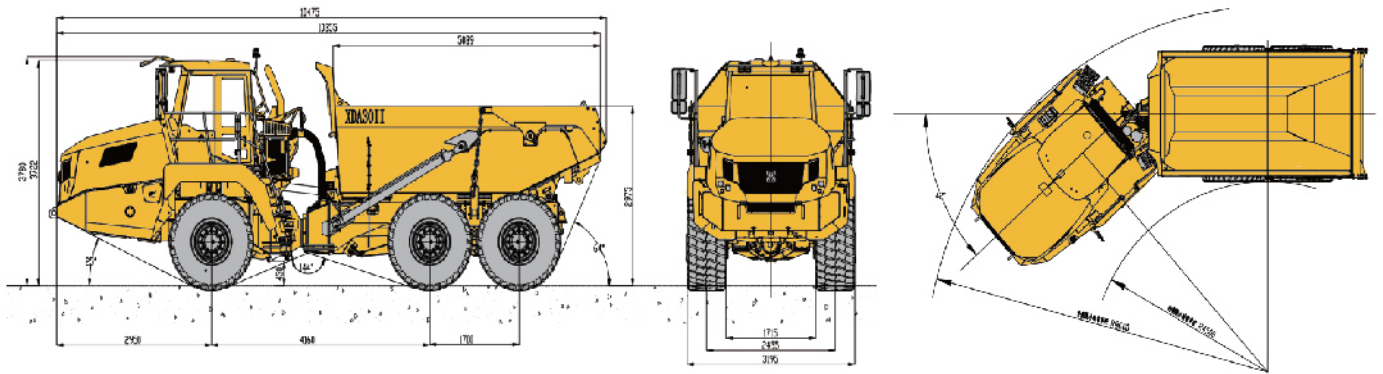
##### ■ HOIST

Truck body is lifted through two single-stage cylinders controlled by one valve group.

##### ■ TYRES

Tyre: 750/65R25 tubeless all-steel radial tyre  
Rim: 25-24/3.0





## TECHNICAL SPECIFICATIONS

### DIMENSIONS

Overall length	10355 mm
Overall width	3195 mm
Overall height	3780 mm
Wheelbase front-mid	4160 mm
Wheelbase mid-rear	1700 mm
Tire center distance front	2455 mm
Tire center distance rear	2455 mm

### WEIGHT

Total weight	57000 kg
Payload	30000 kg
Kerb weight	27000 kg

### WEIGHT DISTRIBUTION

Unloaded front	13500 kg (50%)
Unloaded mid & rear	13500 kg (50%)
Loaded front	17000 kg (30%)
Loaded mid & rear	40000 kg (70%)

### POWER TRAIN

Engine	YCK11
Rated power	280/2100 kW/rpm
Max torque	1900/1100-1400 Nm/rpm
Drive	6 x 6
Tyres	750/65R25

### DRIVING PERFORMANCE

Max. speed	56 km/h
Min. turning clearance	8600 mm
Max. gradeability	45%
Max. steering angle	+/-42°
Min. ground clearance	430 mm

### WORKING PARAMETER

Loading height	2975 mm
Hoist time	12 s
Hoist angle	70°

### SERVICE CAPACITIES

Fuel	350 L
Hydraulic oil	160 L
Engine oil	40 L
Cooling system	100 L
Transfer box	11 L
Axles-differential	100 L

### BODY

Struck	13.6/14 m <sup>3</sup>
2:1 Heaped	17.5/18.1 m <sup>3</sup>

