BROOKS
EQUIPMENT

XCMG

OUTSTANDING PERFORMANCE OFF-ROAD



MADE FOR AUSTRALIAN CONDITIONS



MINING ARTICULATED DUMP TRUCK

XDA45

Product Specifications

RATED PAYLOAD
41,000 kg

RATED POWER
390 kW / 1600 rpm

OVERALL DIMENSIONS
11070 x 3950 x 3846 mm

ENGINE
Benz OM471

BROOKS
EQUIPMENT

XDA45
MINING ARTIC. DUMP TRUCK
BENEFITS & FEATURES



BETTER WAYS TO WORK

- This powerful off-road king can meet the demands of high-efficiency operations in all working conditions. Thanks to its highly reliable and convenient design, efficient operation is guaranteed.
- The XDA45 features XCMG's 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, 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, easy to maintain and highly comfortable to drive.

MACHINE WALKAROUND

MAIN CONFIGURATION
Benz OM471 engine
Allison 4800ORS transmission
Kessler transfer case
Kessler axle
Rated power: 390kW
2:1 heaped capacity: 25m^3

POWER TRANSMISSION SYSTEM
Non-road EU stage III/ national III emissions
Non-road national IV emissions*
Non-road EU stage V emissions*
Cold start system*
Engine delay shutdown
Conveniently operated oil drain valve
Decompression brake
Axle with limited slip differential
Automatic transmission
Self-locking hydraulic torque converter
Transfer case with longitudinal differential lock

DUMP BODY
High-strength wear-resistant dump body
Dump body heating kit
Front falling object protection plate*
Dump body rear tailgate assembly*

BRAKE SYSTEM
Loading and dumping brake
Air-controlled parking brake
Full axle wet brake

*Optional inclusion

ELECTRICAL SYSTEM
Battery isolation switch
Double-stage isolation switch*
Start jumper
24V power socket
12V power socket*
LED headlights
LED reverse lights
LED work lights
LED signal lights
Alarm light
Key backlight
Cab lighting
Electric ultra-high pitch horn
Reversing alarm

COMFORT
Air-suspended two-point seat with seatbelt*
Air-suspended three-point seat with seatbelt
Instructor seat with seatbelt
Lighter
Sliding window
Radio and audio system with USB interface
Sun visor
Telescopic and tiltable steering wheel
Air conditioning system providing fresh air
Cab pressurisation system*
Electric hood opening

TYRES
29.5R25

MAINTENANCE & SERVICING
Automatic centralised lubrication system*
Quick fuel filling system*
Centralised oil filling and sampling system*
Ultra-low temperature kit*
Tyre inflator*
Suspension cylinder nitrogen filling tool*
Onboard toolbox

SAFETY
Anti-slip step and platform
Steering limit lock
Dump body safety limit lock
Handrail
Cab rear window guard net
Rearview mirror
Electric heated rearview mirror*
ROPS & FOPS cab
Wiper
Emergency steering
Hand-held fire extinguisher
Automatic fire extinguishing system*



KING OF MINES

OFF-ROAD EXCELLENCE

HIGH STABILITY

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.

LIFTING CONTROL

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.

STRONG LOAD CAPACITY

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

BRAKE SYSTEM

The fully hydraulic wet disc brake system ensures a long service life and excellent braking performance, even on muddy roads. 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 bends or intersections, reducing the use and wear of the service brakes. Also equipped, is a spring-applied and air-released parking brake.

ENERGY SAVING

The 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.

Robust components and precise manufacturing ensure that the XDA45 offers greater reliability and efficiency.

HYDRAULIC SYSTEM

Featuring 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, ensuring efficient operation.

CORE TECHNOLOGIES

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



XDA45

ARTICULATED DUMP TRUCK

KING OF MINES

OUTSTANDING PERFORMANCE

OFF-ROAD PERFORMANCE

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

RELIABLE & DURABLE

By applying welding stress and deformation simulation technology to key structural components, deformation and residual stress caused during welding complex structures are accurately predicted, optimising 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.

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.

ALL-TERRAIN OPERATION

With its articulated frame structure, small turning radius, and powerful 6x6 all-wheel drive, all-terrain suspension and adaptive control technology allow it to confidently navigate muddy, slippery, and spatially restricted working environments.

EXCELLENT BRAKING

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

EFFICIENT RETURN

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

"A really friendly group of people with a huge range of equipment."

Alan Hall - Brooks Equipment Customer



OFF-ROAD EXCELLENCE

INTELLIGENT MONITORING SYSTEM

The intelligent monitoring system of the entire machine continuously records vehicle operating conditions and related data. In response to non-standard operations or malfunctions that affect driving safety, the system enables gear and speed restrictions.

GPS data transmission and positioning technology, allows for remote data monitoring, whereby the system collects vehicle operating data, which is then processed, analysed, and stored in detail to support the development of programs.

With the structure of the articulated dump truck considered, unique controls are independently programmed to communicate with the main engine and transmission programs. This allows for intelligent deceleration or shutdown under specific operating conditions.

CONVENIENT CONTROLS

The scientifically and conveniently arranged controls, ensure flexible steering, ease of control, and comfortable operation.

COMFORTABLE OPERATION

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

The cab 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, with accompanying passenger seat.

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 represented on a liquid crystal display, providing clear and accessible information to the operator.

PRECISE STEERING

The plunger pump with inlet variable displacement, provides the steering with oil sources.

The flow amplification hydraulic steering gives better road feedback from the steering wheel, high steering response accuracy, and smooth steering performance.

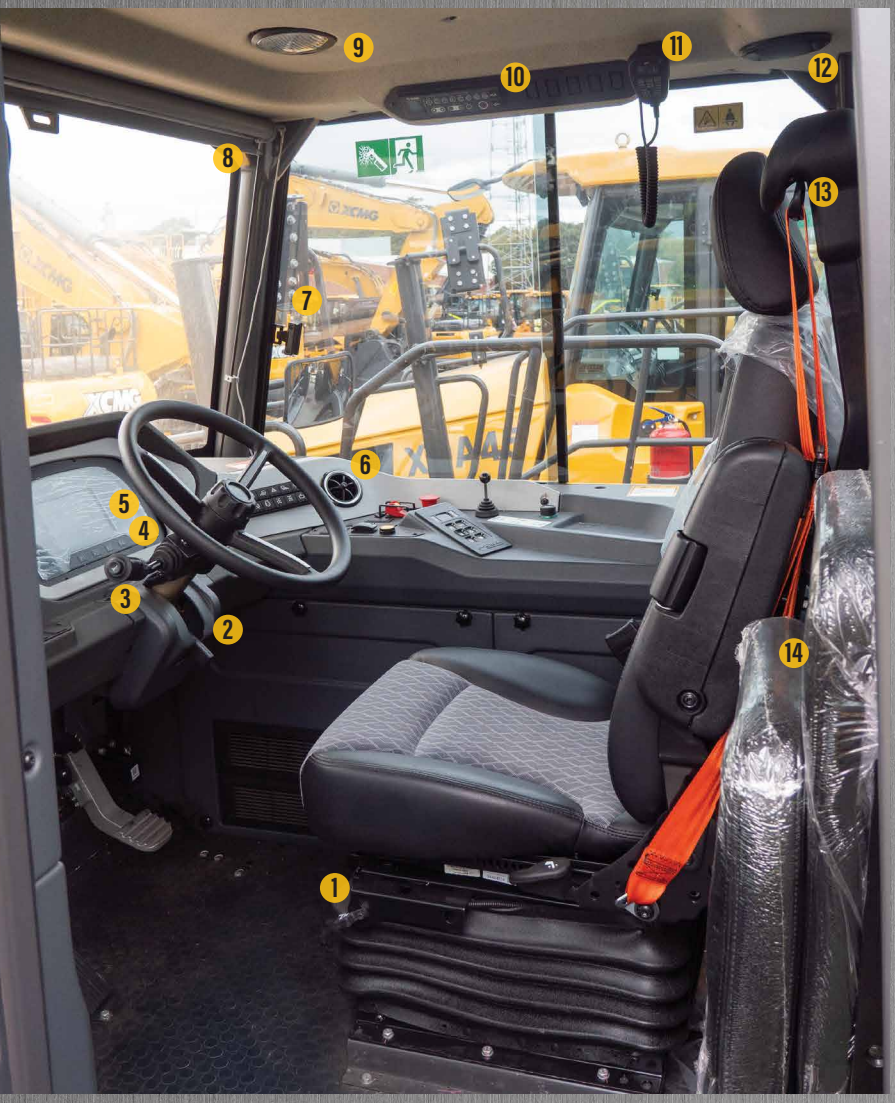
DESIGNED FOR SAFETY

The ergonomically designed cab meets ROPS and FOPS standards, offering a spacious interior and expansive views.

The cab and engine hood are designed to be tiltable and are equipped with safety support devices, ensuring convenient and safe maintenance.



DESIGNED FOR THE OPERATOR

















CABIN CONFIGURATION

1	Adjustable seat
2	Tilting/ telescoping handle
3	Multi-function combination switch
4	Display controls
5	LCD monitor display
6	All-around air vents
7	Openable windows
8	Sunshade
9	LED light
10	Radio/ Bluetooth controls
11	UHF radio
12	Speakers
13	3-point seatbelt
14	Foldable passenger seat
15	A/C & heating controls
16	Cup holder
17	Fire extinguisher
18	Storage compartment
19	Escape hammer
20	Pedal configuration
21	Key switch
22	Loading/ dumping brake button
23	Hood lift switch
24	Park brake
25	Emergency stop
26	Shifters
27	Working handle
28	24V power port
29	Bus keyboard







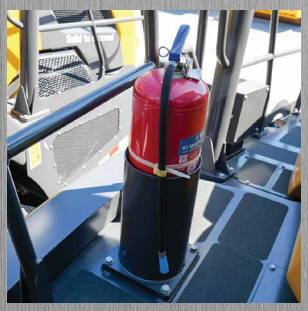



24V

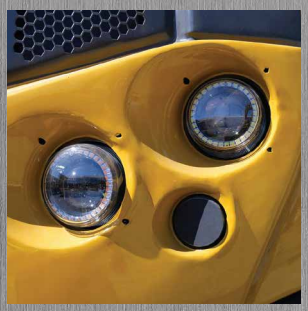


EMERGENCY
STOP


D
3M

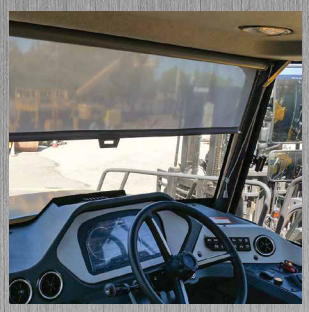

MAX
MIN
BRAKE OIL LEVEL
DO NOT





PROMOT
GECHKING





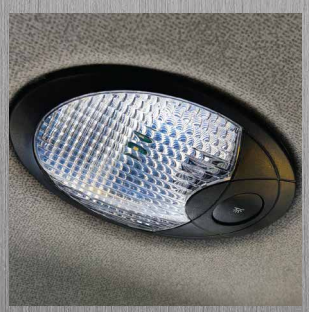
R
N
D
Allison



MODE
OFF


AUX






XDA45

MINING ARTIC. DUMP TRUCK

DIMENSIONS & SPECIFICATIONS

BROOKS EQUIPMENT

Scan to view the XDA45 product brochure

MAIN SPECIFICATIONS

ENGINE

Model	Benz OM471
Rated Power	390 kW / 1600 rpm
Engine HP	530 hp
Max. Torque	2600 Nm

ELECTRICAL SYSTEM

Voltage	24 V
Battery	2 x 12 V
Battery Capacity	2 x 75 Ah
Alternator	2.8/100 kW/A
Starting Motor	7 kW

TRANSMISSION SYSTEM

Transmission	4800ORS Allison
Transfer Case	W4640 Kessler
Axle	27T Kessler

CAB

Interior Noise Level	74 dB
Exterior Noise Level	105 dB
Max. Working Pressure of Hydraulic System	27.5 Mpa
Lifting Angle	70°
Lifting Time	12 s
Lowering Time	13 s

DUMP BODY

Front Plate	8 mm
Side Plate	12 mm
Bottom Plate	16 mm
Material	NM400

BODY CAPACITY

Rated Load Capacity	41000 kg
Struck Capacity	19.5 m^3
2:1 Heaped Capacity	25 m^3

SPEED

FWD I/II/III/IV/V/VI/VII	4.2/6.3/14.8/19.7/28.2/38.3/47 km/h
RVS I	6.7 km/h

FILLING CAPACITY

Crankcase	40 L
Fuel Tank	500 L
Cooling System	100 L
Transmission	48 L
Transfer Case	11 L
Axle	165 L
Hydraulic Oil Tank	250 L
Brake Cooling System	200 L

OPERATING WEIGHT

Tyres		29.5R25
No Load		
	Front	17000 kg
	Rear	17000 kg
	Total	34000 kg
	Effective Payload	41000 kg
Total Weight		
	Front	22500 kg
	Rear	52500 kg
	Total	75000 kg

DIMENSION PARAMETERS

Overall	Length	11070 mm
	Width	3950 mm
	Height	3846 mm
Front-Middle Wheelbase		4450 mm
Middle-Rear Wheelbase		1940 mm
Wheel Centre Distance	Front Wheel	2700 mm
	Rear Wheel	2700 mm

WEIGHT PARAMETERS

Gross Weight	75000 kg
Rated Payload	41000 kg
Non-Load Weight	34000 kg

Materials and specifications in this brochure are subject to change without notice. Please speak with a Brooks Equipment Sales Representative for specifications of the physical unit.

XDA45

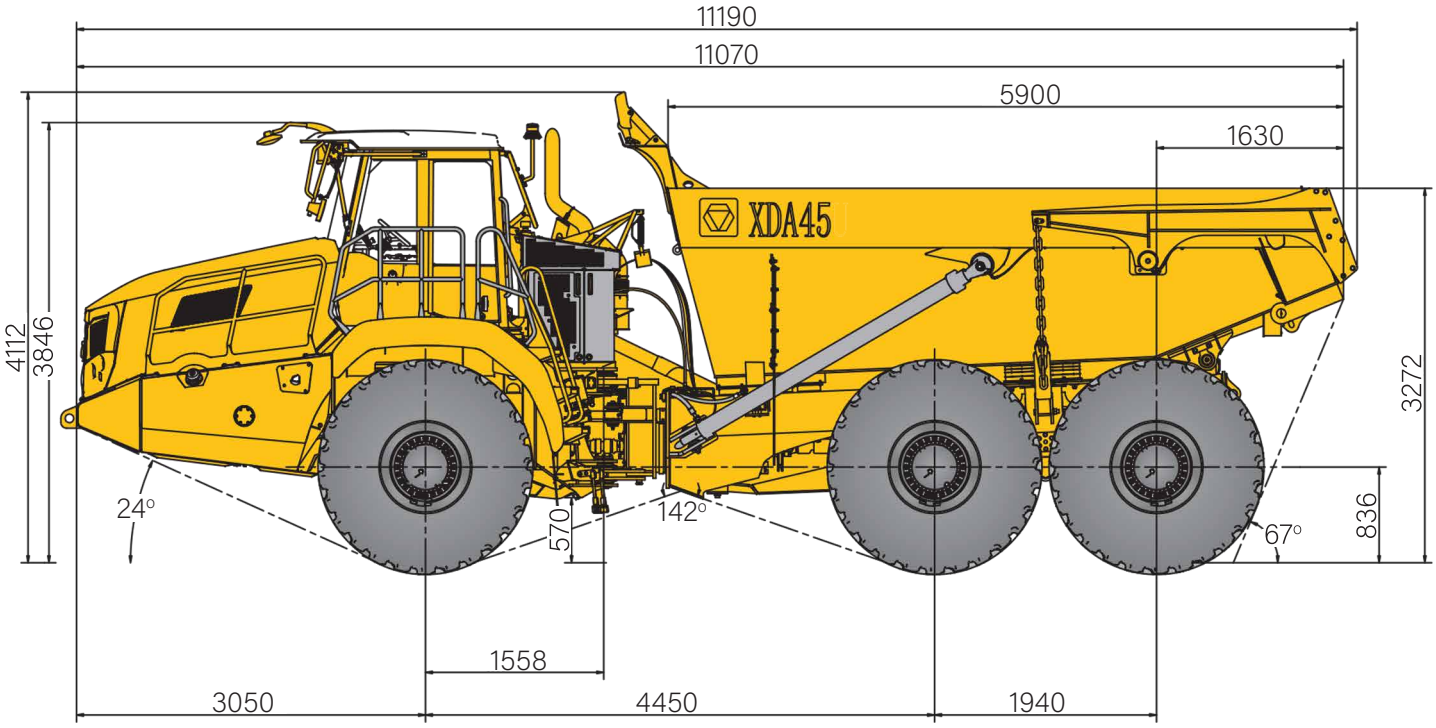
MINING ARTIC. DUMP TRUCK

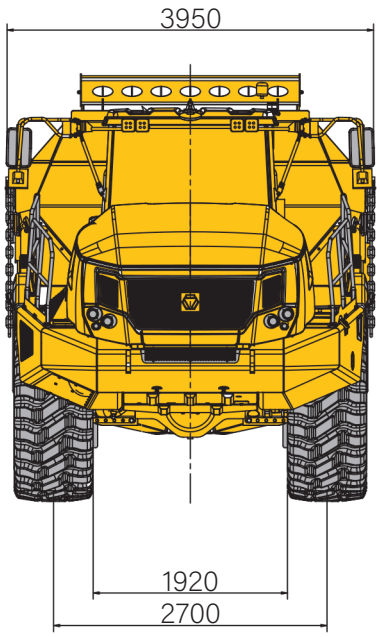
DIMENSIONS & SPECIFICATIONS

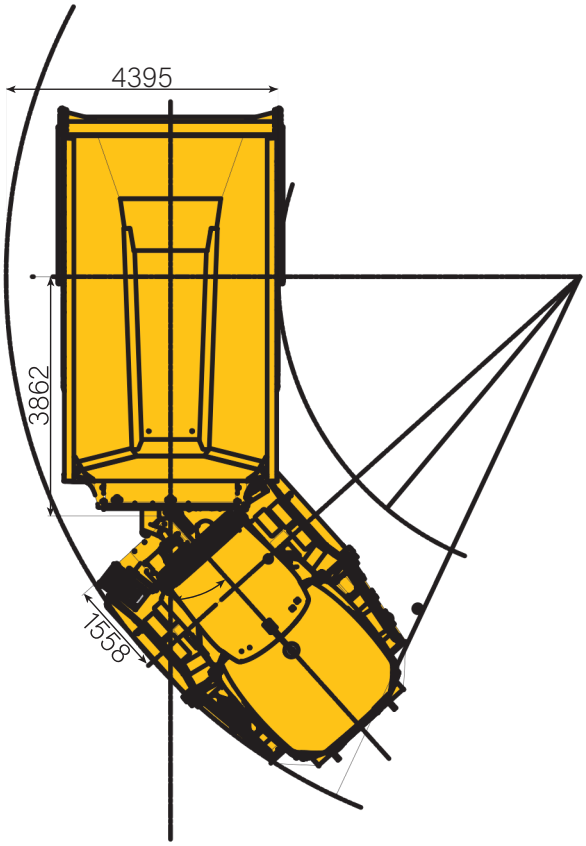
BROOKS EQUIPMENT

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MAIN DIMENSIONS







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SERVICE LIKE NO OTHER



With a dedicated Field Service team of qualified HD Mechanics, and access to OEM parts, you're connected to the best after sales support for your machine's full lifetime.

QUALITY

Quality tested machines, developed and built for Australian conditions.

GUARANTEE

All of our XCMG models come with first class warranty cover.

ANY TIME

Our team of experts are available 24 hours a day, 7 days a week.



PARTS ON YOUR DOORSTEP

Access to parts and support is made easy through XCMG's Australian Technical and Service Centre.

SUPPORT FROM BRANCHES

AUSTRALIA WIDE



With Brooks Equipment branches Australia-wide, you have complete coverage for support and servicing, wherever you are in the country.

BROOKS EQUIPMENT

Discover more about your XCMG machine

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