

B45D 6x6 ARTICULATED DUMP TRUCK MKVI

B45D 6x6 ARTICULATED DUMP TRUCK MKVI

B45D 6x6 ARTICULATED DUMP TRUCK MKVI



AVAILABLE EQUIPMENT

Cab

- ROPS/FOPS certification
- Protective rear window guard
- Tilt cab for service access
- Gas strut supported door
- Tinted safety glass
- Sliding windows
- Rear view mirrors- regular and wide angle
- Electrically adjustable rearview mirrors - one per side
- Sun visor
- Wiper/washer with intermittent control
- Tilt and telescoping steering wheel
- Adjustable, air suspension seat with retractable seat belt
- Fold-away trainer seat with retractable seat belt
- HVAC climate control system with filtered and ducted air
- Rotating beacon
- 12 V power outlet/12 V cigarette lighter
- Ash tray
- Drinks holder
- Cooled/heated lunch box
- I-Tip programmable bin tip
- Sound insulated to 76 dB(A) to ISO 6396
- Radio/CD/Tape
- Memory Module
- Air horn
- External windshield visor
- Forward working lights

MDU Features

- Operator / Site selected speed control
- Tipping counter
- Trip timer
- Trip distance
- On Board Weigh System (OBW)
- Transmission gear selection
- Fuel Consumption
- Diagnostics
- Intermittent wiper timing control

Gauges

- Speedo calibration for alternative tyre sizes
- Metric /Imperial unit selection
- Warning lights with audible buzzer

- Engine coolant temperature
- Engine oil pressure
- Transmission oil temperature
- Fuel
- Tachometer
- Battery voltage
- Hourmeter
- Odometer
- System air pressure

Vehicle

- Groeneveld auto greasing system
- Ground driven emergency steering
- Bin safety prop
- Articulation lock
- Integral transmission output retarder with 6 settings

Other

- (Factory or field installed)
- Retractable sun visor
 - Exhaust body heating
 - Autogate
 - Body liners
 - Fleetmatic Satellite Monitoring System
 - Driver ID and immobiliser
 - Artic reverse light
 - Fuel heater
 - Headlight protection grills
 - Rear window wiper
 - Antenna mounting bracket
 - Provision for reverse camera
 - Wiggins quick fuelling system
 - Full handrail kit
 - Tyre pressure monitoring

*standard specification for machines may vary according to region

Features of the B45D

The B45D delivers the following Artic Truck benefits to the 45 ton class

- **Lower capital investment**
- **High productivity**
- **Reduced time costs and maintenance**
- **Superior gradeability**
- **Greater stability**
- **Greater all weather working capacity and valuable versatility over rigid trucks**
- **Advanced safety features**
- **The B45 is equally at home in mining applications or construction type earthmoving**
- **Comfort Ride option with adaptive front suspension and dual stage rear suspension**



BELL INTERNATIONAL: Tel: +27 (0) 35-907 9431

France Tel: +33 (0) 5 55 89 23 56

Germany Tel: +49 (0) 6631 / 91 13 - 0

Spain Tel: +34 91 879 60 19

South Africa Tel: +27 (0) 11-928-9700

UK Tel: +44 (0) 1283 712862

USA Tel: +7 495 771 20 27

E-mail: sales@bellequipment.com

• www.bellequipment.com

All dimensions are shown in millimetres, unless otherwise stated between brackets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. Photographs featured in this brochure may include optional equipment.

**Strong Reliable Machines
Strong Reliable Support**

BELL

D SERIES

Gross Power: 350 kw (469 hp)
Gross Torque: 2 300 Nm (1,696 lbft)
Rated Payload: 41 000 kg (90 389lbs)

BELL

B45D 6x6 ARTICULATED DUMP TRUCK

ENGINE Mercedes Benz OM502LA V-8 Turbocharged and intercooled
Cooling system Liquid cooled with single pass radiator as well as charge air cooler
Gross power 350 kW (469 hp) @ 1 800 rpm SAE J1349
Net power 342 kW (459 hp) @ 1 800 rpm
Gross torque 2 300 Nm (1,696 lbf) @ 1 200 rpm SAE J1349
Net torque 2 247 Nm (1,657 lbf) @ 1 200 rpm
Displacement 15,93 litres (730 cu.in)
Fuel tank capacity 640 litres (169 US gal)
Auxiliary Brake Automatic exhaust brake Engine Valve Brake (EVB)
Certification OM 502 LA.E2/1-00 meets Europe (EU) step2; OM 502 LA.E3A/1 meets Europe (EU) step 3
TRANSMISSION Full automatic planetary transmission with integral retarder Engine mounted with rear output
Layout Constant meshing planetary gears, clutch operated
Gear layout 6 Forward, 1 Reverse
Gears 6 Forward, 1 Reverse
Clutch type Hydraulically operated multi-disc
Control type Electronic
Torque converter layout Hydrodynamic, with lock-up in all gears
TRANSFER CASE AGR 17100
Layout Three in-line helical gears
Output differential Interaxle 33/67 proportional differential, pneumatically/spring lockable whilst stationary or on the move.
WHEELS 29,5 R25
Tyre size Radial Earthmover

AXLES High strength steel fabricated with spiral bevel type gears on the Controlled Traction differential and heavy duty outboard planetary gears.
Final drive type Outboard heavy duty planetary on all axles
Housing type Steel fabricated
BRAKING SYSTEM Dual circuit, full hydraulic oil immersed wet multi-disc brakes on all three axles
SERVICE BRAKE 399 kN (89,699 lbf)
Maximum brake force Spring applied, air released driveline mounted disc.
PARK & EMERGENCY 440 kN (98,920 lbf)-Static
Maximum brake force 105 kN (23,605 lbf)-Dynamic
RETARDATION SYSTEM Automatic exhaust brake and Engine Valve Brake (EVB)
ENGINE BRAKE
Maximum retardation power 340 kW (456 hp)
TRANSMISSION RETARDER Integral hydrodynamic, output speed dependant, six selectable levels of retardation
Total retardation power (excl. service brakes) 550 kW (737 hp)
SUSPENSION
Front type Semi-independent leading A-frame supported by nitrogen/oil struts
Rear type Pivoting walking beams equalize the load on each axle with laminated suspension blocks. Each axle is coupled to the chassis by a Tri-Link system of three rubber-bushed links for ideal vertical movement and a transverse link for lateral restraint

HYDRAULIC SYSTEM Variable displacement with load sensing system serving the prioritized steering, body tipping, suspension and brake functions. A ground-driven, load sensing emergency steering pump is integrated into the main system
Pump Type Variable displacement, load sensing piston
Application Steering, tipping, hydraulic brake charging, suspension and cooling fan drive
Flow 350 l/min (92.5 US gal/min)
Pressure 25 MPa (3,626 psi)
Filter 5 micron
PNEUMATIC SYSTEM Air drier with heater and integral unloader valve, serving park brake and auxiliary functions
System pressure 750 kPa (109 psi)
ELECTRICAL SYSTEM
Voltage 24 V
Battery type Two maintenance free permanently sealed 2 x 105 Ah (optional 2 extra batteries)
Battery capacity 28 V 80 A
Alternator rating
STEERING SYSTEM Hydrostatically actuated by two double acting cylinders, with ground-driven emergency steering pump.
Angle +, - 42°
Lock to lock turns 4,2
DUMPING SYSTEM Two double-acting, single stage, dump cylinders
Raise time 11.2 s (60° tip angle)
Power down time 9.9 s (60° tip angle)
Tipping angle 70° standard, or any lower angle programmable
VEHICLE SPEEDS
1st 6,7 km/h (4,1 mph)
2nd 14,1 km/h (8,8 mph)
3rd 20,4 km/h (12,7 mph)
4th 31,2 km/h (19,4 mph)
5th 40,9 km/h (25,4 mph)
6th 46,5 km/h (28,9 mph)
Reverse 6,4 km/h (4,0 mph)

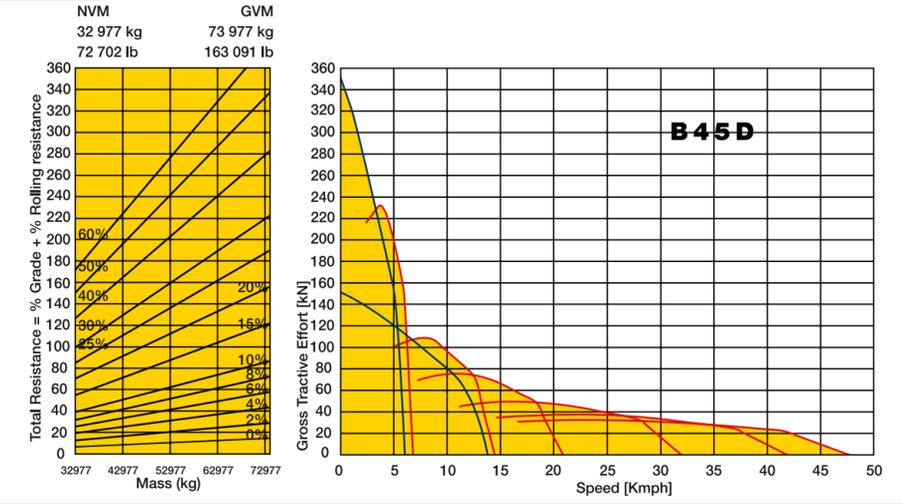


B45D 6x6 ARTICULATED DUMP TRUCK

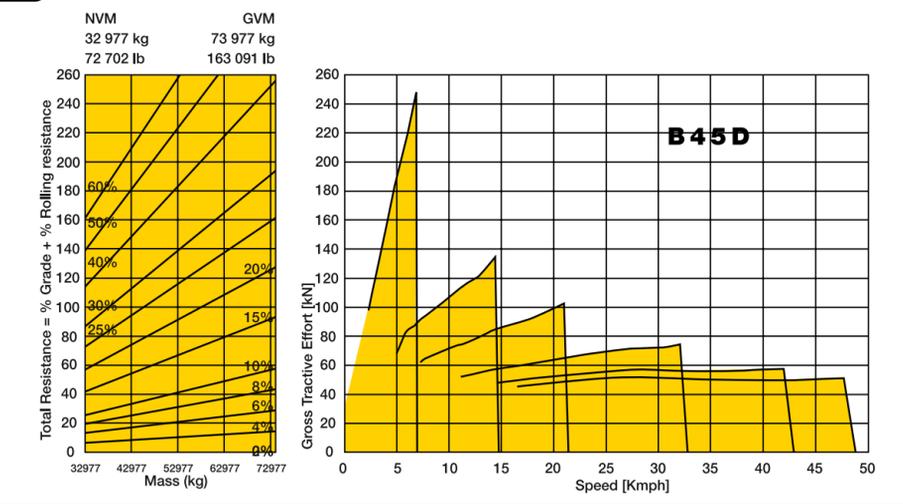
LOAD CAPACITY & GROUND PRESSURE

WEIGHTS			GROUND PRESSURE			LOAD CAPACITY		
UNLADEN	kg	lbs	UNLADEN	kPa	psi	BODY	m³	cu.yd
Front	17,230	37,986	Front	266	39	Struck Capacity	19,5	25.5
Middle	7,890	17,394	Middle	257	37	SAE 2:1 Capacity	25,0	32.7
Rear	7,860	17,328	Rear	257	37	SAE 1:1 Capacity	30,3	39.6
Total	32,980	72,708				SAE 2:1 Capacity		
LADEN			LADEN			with Autogate	26,0	34.0
Front	21,190	46,716	Front	283	41			
Middle	26,410	58,224	Middle	348	50	Rated Payload	41,000 kg	90.389 lbs
Rear	26,380	58,158	Rear	347	50			
Total	73 980	163 098						

GRADEABILITY/RIMPULL



RETARDATION



B45D 6x6 ARTICULATED DUMP TRUCK

DIMENSIONS

