



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



Configuration

Mercedes Benz OM502LA

Aspiration

Turbocharged and intercooled

**Cooling system** Liquid cooled with single pass radiator as well as

charge air cooler

Certification

Regulated OM 502 LA.E3A/1 meets

Europe (EU) step 3 282 kW (512 hp) @ 382 kW (512 hp) @ Gross power Nett power

1 800 rpm

2 200 Nm (1,622 lbf) @ **Gross Torque** 

200 rpm SAE J1349 147 Nm (1,584 lbf) @

**Nett Torque** 200 rpm

Non Regulated OM 502 LA.E2/1-00 meets

Europe (EU) step2; 380 kW (510 hp) @ 1 800 rpm SAE J1349 372 kW (499 hp) @ Gross power

Net power

1 800 rpm

Gross torque 2 200 Nm (1,622 lbf) @ 200 rpm SAE J1349 Net torque 147 Nm (1,584 lbf) @

200 rpm

Displacement 15,93 litres (730 cu.in) Fuel tank capacity Auxilliary Brake

640 litres (169 US gal) Automatic exhaust brake Engine Valve Brake (EVB)

TRANSMISSION

Full automatic planetary transmission with integral

retarder

Layout Engine mounted with rear

output

Gear layout Constant meshing

planetary gears, člutch

operated

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

Layout Output differential

AGR 17100

Three in-line helical gears Interaxle 33/67 proportional differential, pneumatically/ spring lockable whilst stationary or on the move.

VHEELS

29,5 R25 Tyre size Type Radial Earthmover

AXLES

High strength steel fabricated with spiral bevel type gears on the Controlled Traction differential and heavy duty outboard planetary gears. Outboard heavy duty

planetary on all axles Steel fabricated

SERVICE BRAKE

Housing type

Final drive type

Dual circuit, full hydraulic oil immersed wet multi-disc

brakes on all three axles

Maximum brake force

399 kN (89.699 lbf)

**PARK & EMERGENCY** 

Spring applied, air released driveline mounted disc.

Maximum brake force

440 kN (98,920 lbf)-Static 105 kN (23,605 lbf)-Dynamic

**ENGINE BRAKE** 

Automatic exhaust brake and Engine Valve Brake

(EVB)

Maximum retardation power

340 kW (456 hp)

TRANSMISSION RETARDER

Integral hydrodynamic, output speed dependant, six selectable levels of

Total retardation retardation power (excl. service brakes)

550 kW (737 hp)

**SPENSION** 

Front type

Rear type

Semi-independent leading A-frame supported by nitrogen/oil struts 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 rubberbushed links for ideal vertical movement and a transverse link for lateral

restraint

Application

Flow

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

Variable displacement, Pump Type loadsensing piston

Steering, tipping, hydraulic brake charging, suspension

and cooling fan drive 350 l/min (92.5 US gal/min) 25 MPa (3,626 psi)

Pressure Filter 5 micron

Air drier with heater and integral unloader valve, serving park brake and

auxiliary functions 750 kPa (109 psi)

System pressure

Voltage

24 V Battery type Two maintenance free

permanently sealed 2 x 105 Ah (optional 2 extra **Battery** capacity

batteries) 28 V 80 A

Alternator rating

Hydrostatically actuated by two double acting cylinders, with ground-driven

emergency steering pump. +- 42

Lock to lock turns 4,2

Raise time Power down time Tipping angle

Two double-acting, single stage, dump cylinders 11.2 s (60° tip angle) 9.9 s (60° tip angle) 70° standard, or any lower angle programmable

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) 46,5 km/h (28,9 mph) 6th Reverse 6,4 km/h (4,0 mph)

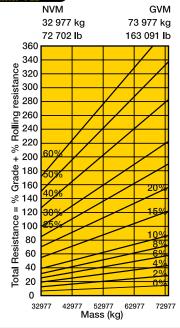


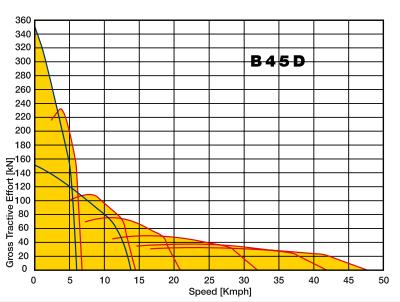


### LOAD CAPACITY & GROUND PRESSURE

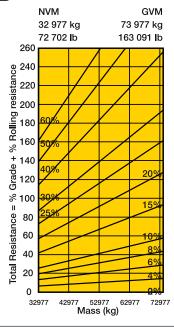
WEIGHTS			GROUND PRESSURE			LOAD CAPACITY		
UNLADEN	kg	lbs	UNLADEN	kPa	psi	BODY	m³	cu.yd
Front	17,230	37.986	Front	266	39	Struck Capacity	20	26.16
Middle	7,890	17.394	Middle	257	37	SAE 2:1 Capacity	25,5	33.36
Rear	7,860	17.328	Rear	257	37	SAE 1:1 Capacity	31	40.55
Total	32,980	72.708				SAE 2:1 Capacity		
LADEN			LADEN			with Autogate	26,5	34.67
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						

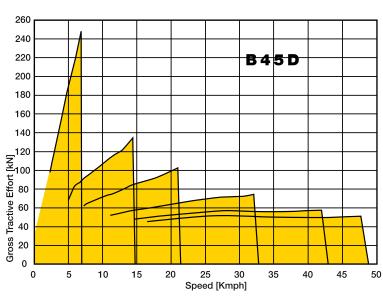
# GRADEABILITY/RIMPULL

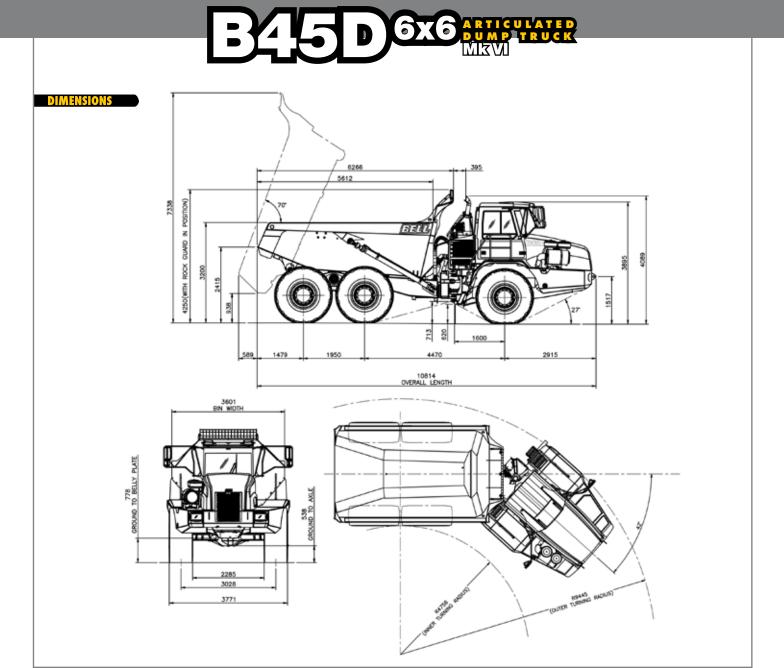




# RETARDATION









#### 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 trav
- 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

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

#### Gauges

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

### Vehide

- 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 13450

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

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