- 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
- 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
- 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

• 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

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

(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 **B501**

The B50D delivers the following Artic Truck benefits to the 50 ton class

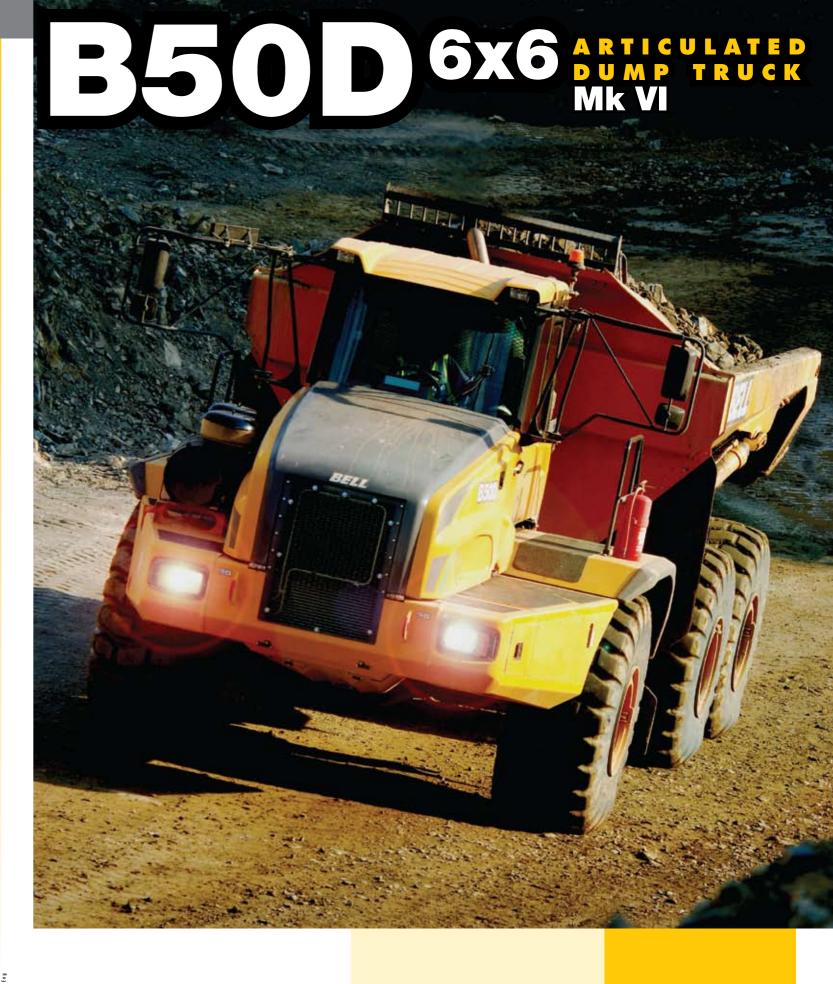
- Lower capital investment
- Better fuel economy
- Reduced time costs and maintenance
- Superior gradeability
- More flotation
- Greater all weather working capacity
- And valuable versatility over rigid trucks
- The B50 is equally at home in mining applications or construction type earthmoving
- **Comfort Ride option with adaptive front** suspension and dual stage rear suspension



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









Gross Power: 390 kw (523 hp) Gross Torque: 2 200 Nm (1,622 lbft) Rated Payload: 45 400 kg (100 090 lbs)



Mercedes Benz OM502LA | Migh strength steel

Turbocharged and intercooled Cooling system Liquid cooled with single pass radiator as well as charge air cooler

390 KW (523 hp) @ 1 800 rpm SAE J1349 Net power 382 kW (512 hp) @ 1 800 rpm

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

Displacement Fuel tank capacity 15,93 litres (730 cu.in) 640 litres (169 US gal) Auxilliary Brake Automatic exhaust brake Engine Valve Brake (EVB)

Certification Non Regulated

OM 502 LA.E2/1-00 meets Europe (EU) step2; OM 502 LA.E3A/1 meets Europe (EU) step 3

Full automatic planetary

transmission with integral retarder Engine mounted with rear output Constant meshing Gear layout

multi-disc

operated 6 Forward, 1 Reverse Gears Clutch type Hydraulically operated

Control type Electronic Torque converter layout

in all gears

AGR 17100 Layout AGR 17100
Output differential Three in-line helical gears Interaxle 33/67 proportional differential, pneumatically/ spring lockable whilst

875/65 R29

Radial Earthmover

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

Steel fabricated

Dual circuit, full hydraulic oil immersed wet multi-disc brakes on all three axles

SERVICE BRAKE 399 kN (89,699 lbf)

Spring applied, air released driveline mounted disc.

Automatic exhaust brake

and Engine Valve Brake (EVB)

PARK & EMERGENCY 440 kN (98,920 lbf)-Static Maximum brake 105 kN (23,605 lbf)-Dynamic force

SYSTEM ENGINE BRAKE

planetary gears, clutch Maximum retarda- 340 kW (456 hp)

tion power TRANSMISSION

RETARDER Hydrodynamic, with lock-up

Total retardation power (excl. service 550 kW (737 hp) brakes)

stationary or on the move.

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

Semi-independent leading

A-frame supported by

nitrogen/oil struts

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,

loadsensing piston

Pump Type

Steering, tipping, hydraulic brake charging, suspension and cooling fan drive 350 l/min (92.5 US gal/min) Pressure 25 MPa (3,626 psi) 5 micron

Air drier with heater and

integral unloader valve, serving park brake and auxiliary functions 750 kPa (109 psi)

System pressure

Voltage Battery type

Two maintenance free permanently sealed Battery capacity 2 x 105 Ah (optional 2 extra batteries) Alternator rating 28 V 100 A

Hydrostatically actuated Integral hydrodynamic, output speed dependant, six selectable levels of bý two doublé acting cylinders, with ground-driven emergency steering pump. retardation

Angle Lock to lock turns

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

4,2

lst	6,9 km/h	(4,3125 mph
2nd	14,6 km/h	(9,125 mph)
3rd	21,2 km/h	(13,25 mph)
4th	32,4 km/h	(20,25 mph)
5th	42,4 km/h	(26,5 mph)
6th	48,2 km/h	(30,125 mph
Reverse	5,7 km/h	



LOAD CAPACITY & GROUND PRESSURE

WEIGHTS			GROUND PRESSURE			LOAD CAPACITY		
UNLADEN	kg	lbs	UNLADEN	kPa	psi	BODY	m³	cu.yd
Front	17,550	38,691	Front	100	14.6	Struck Capacity	21,6	28.3
Middle	8,500	18,739	Middle	53	7.7	SAE 2:1 Capacity	27,5	36.1
Rear	8,470	18,673	Rear	49	7.1	SAE 1:1 Capacity	34,5	45.12
Total	34,520	76,104	Total			SAE 2:1 Capacity		
LADEN			LADEN			with Autogate	28,7	37.5
Front	23,440	51,676	Front	314	45			
Middle	28,255	62,292	Middle	365	53	Rated Payload	45 400 kg	100,090 lbs
Rear	28,225	62,225	Rear	365	53			
Total	79,920	176,193						

