- 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
- 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 tray
- Drinks holder
- Cooled/heated lunch box
- I-Tip programmable bin tip • Sound insulated to 76 dB(A) to ISO 6394
- Radio/CD/Tape
- Memory Module Air horn

## 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

- 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
- Forward working lights
- Artic reverse light
- Fuel heater External windshield visor
- Headlight protection grills
- Rear window wiper
- Antenna mounting bracket
- Provision for reverse camera
- Wiggins quick fuelling system

\*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

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.

- Greater all weather working capacity
- And valuable versatility over rigid trucks
- The B50 is equally at home in mining applications or construction type earthmoving

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# key features

• **Gross Power** 390 kw (523 hp)

• **Gross Torque** 2 200 Nm (1,622 lbft) • Rated Payload 45 400 kg (100 090 lbs)





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

390 KW (523 hp) @ Gross power 1 800 rpm SAE J1349 Net power 382 kW (512 hp) @ 1 800 rpm 2 200 Nm (1,622 lbft) @ Gross torque

Net torque 2 147 Nm (1,584 lbft) @ 1 200 rpm 15,93 litres (730 cu.in) Fuel tank capacity 640 litres (169 US gal) Auxilliary Brake Automatic exhaust brake

Certification Non Regulated

Regulated

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

planetary gears, clutch

6 Forward, 1 Reverse

Hydraulically operated

Hydrodynamic, with lock-

6,9 km/h (4,3125 mph)

lockable whilst stationary

or on the move.

Engine Valve Brake (EVB)

1 200 rpm SAE J1349

TRANSMISSION Full automatic planetary

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

operated

multi-disc

Electronic

up in all gears

Gears Clutch type

Control type Torque converter layout

Vehicle speeds

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

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

Mercedes Benz OM502LA High strength steel fabricated with spiral Turbocharged and 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 multidisc brakes on all three axles 399 kN (89,699 lbf)

Spring applied, air

Maximum brake

PARK & EMERGENCY released driveline mounted disc. Maximum brake 440 kN (98,920 lbf)-Static

105 kN (23,605 lbf)-Dynamic

N Automatic exhaust brake and Engine Valve Brake

Radial Earthmover

Semi-independent leading

to the chassis by a Tri-Link

system of three rubberbushed links for ideal vertical

Maximum retardation 340 kW (456 hp)

TRANSMISSION RETARDER

Integral hydrodynamic, output speed dependant, six selectable levels of retardation

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

Tyre size

A-frame supported by nitrogen/oil struts Pivoting walking beams equalize the load on each axle with laminated suspension blocks. Each axle is coupled

Pump Type

Application

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

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

System pressure

Battery type Two maintenance free Battery capacity

permanently sealed 2 x 105 Ah (optional 2 extra batteries) Alternator ratina 28 V 100 A

5 micron

Hydrostatically actuated by two double acting cylinders, with ground-driven emergency steering pump. Angle +- 4: Lock to lock turns 4,2

Raise time Power down time Tipping angle

21.4 m<sup>3</sup> (28.0 yd<sup>3</sup>) 28.2 m<sup>3</sup> (36.9 vd<sup>3</sup>) 45 400 kg (100,090 lbs) 11.2 s (60° tip angle) 9.9 s (60° tip angle) 70° standard, or any lower

angle programmable

LOAD CAPACITY & GROUND PRESSURE

WEIGHTS			GROUND PRESSURE At 15% sinkage of unloaded radius and specified weights			LOAD CAPACITY		
UNLADEN	kg	lbs	UNLADEN	kPa	psi	BODY (Ribbed reinforced)	m³	cu.yd
Front	17,550	38,691	Front	100	14.6	Struck Capacity	21,4	27.99
Middle	8,500	18,739	Middle	53	7.7	SAE 2:1 Capacity	28,2	36.88
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	30	39.23
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						









