



Gross Power: 375 kW (503 hp)
Gross Torque: 2 400 Nm (1,770 lbft)

• Rated Payload: 45 400 kg (100.090 lbs)



Mercedes Benz OM502LA, V-8 Turbocharged and intercooled Gross power 375 kW (503 hp) @ 1,800 rpm SAE J1349

**Net Power** 

364 kW (488 hp) @ 1,800 rpm Torque 2,400 Nm (1,770 lbft) @ 1,200 rpm

Displacement 15,93 litres (730 cu.in) AdBlue Tank Capacity 66 I (17.4 US gal) Fuel tank capacity 575 litres (152 US gal) Certification

OM 502 LA meets Europe (EU) stage 3b emissions regulations

Layout

Full automatic planetary transmission with integral retarder Engine mounted with rear output Constant meshing planetary

Gear Lavout gears, clutch operated

Gears 6 Forward, 1 Reverse

Clutch type Hydraulically operated multi-disc Electronic

Control type Hydrodynamic, with lockup in all gears

Torque Converter

## TRANSFER BOX

Manufacturer Model Layout Output Differential Bell 17100

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

## **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

Housing type Steel fabricated

SERVICE BRAKE

Final drive type

Dual circuit, full hydraulic oil immersed wet multidisc brakes on all three axles 399 kN (89,699 lbf) Spring applied, air released driveline mounted disc. 440 kN (98,920 lbf)-Static 105 kN (23,605 lbf)-Dynamic Automatic exhaust brake

Engine Valve Brake (EVB)

PARK & EMERGENCY Maximum brake force

Maximum brake force

Maximum brake force AUXILIARY BRAKE

Maximum retardation

FNGINF RRAKE

Automatic exhaust brake and

Engine Valve Brake (EVB) 340 kW (456 hp)



Transmission retarder

Integral hydrodynamic, output speed dependant, six selectable levels of retardation 550 kW (737 hp)

Total retardation power

Tyre size

Radial Earthmover 875/65R29

Semi-independent, leading A-frame supported by nitrogen/oil struts

Pivoting walking beams equalise the load on each axle with laminated suspension blocks. Each axle is coupled to the chassis by a Tri-Link system of four rubberbushed links for ideal vertical movement and a transverse link for lateral restraint.

Flow

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

Pump type Variable displacement, loadsensing piston **Application** 

Steering, tipping, hydraulic brake charging, suspension and cooling fan drive 350 l/min (92.5 US gal/min)

Pressure Filter

25 MPa (3,626 psi) 5 microns

Hydrostatically actuated by two double acting cylinders, with ground-driven emergency steering pump.

Lock to lock turns Steering Angle

Raise Time Lowering 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

Air drier with heater and integral unloader valve, serving park brake and auxilliary functions 810 kPa (117 psi)

System Pressure

# YSTE

Voltage Battery Type

Two maintenance free permanently sealed **Battery Capacity** . 2 X 105 Ah (optional 2 extra batteries)

24 V

28 V 80 A

Alternator Rating

7 km/h 41 km/h 2nd 14 km/h 6th 47 km/h 3rd 21 km/h 7 km/h 31 km/h

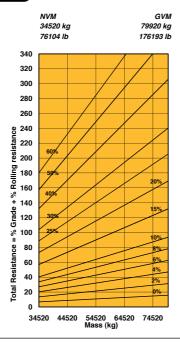


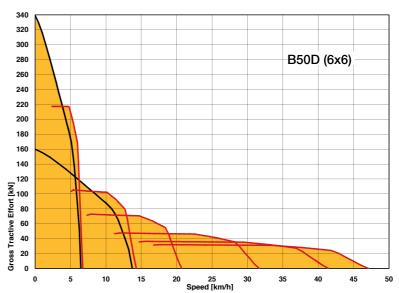


## LOAD CAPACITY & GROUND PRESSURE

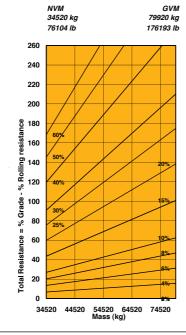
WEIGHTS			GROUND PRESSURE		LOAD CAPACITY			OPTION WEIGHTS	
UNLADEN	kg	lbs	LADEN (No sinkage)	kPa	BODY	m³	cu.yd		kg
Front	17,550	38,691	Front	274	Struck Capacity	22	28,8	Bin liner	1,740
Middle	8,500	18,739	Middle	335	SAE 2:1 Capacity	28	36,6	Tailgate	998
Rear	8,470	18,673	Rear	335	SAE 1:1 Capacity	34	44,5	Extra wheelset	1,031
Total	34,520	76,104			SAE 2:1 Capacity				
LADEN			LADEN (With sinkage)		with Autogate	29,5	38,6		
Front	23,440	51,676	Front	145				]	
Middle	28,225	62,292	Middle	178	Rated Payload	45 400kg (100,090 lbs)		1	
Rear	28,255	62,225	Rear	178				1	
Total	79,920	176,193							

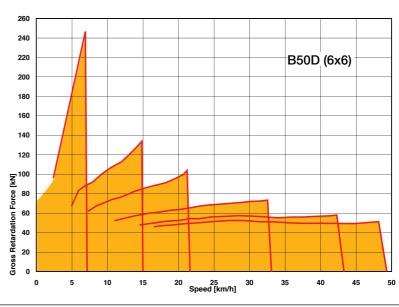
## GRADEABILITY/RIMPULL

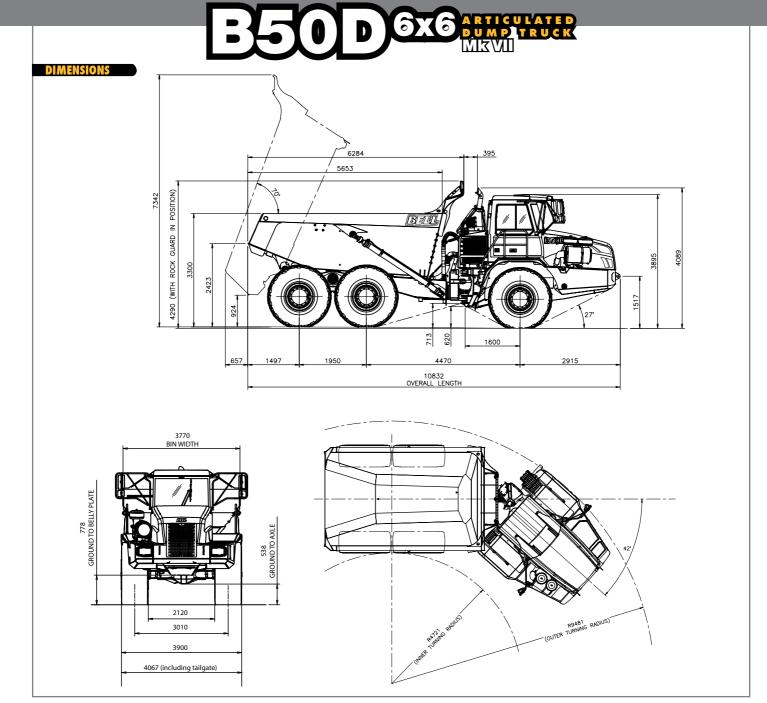




## RETARDATION









## 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 tray
- Drinks holder
- Cooled/heated lunch box
- I-Tip programmable bin tip
- Sound insulated to 74 dB(A) to ISO 6396
- 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

## Gauges

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

## Vehicle

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

## **Other**

## (Factory or field installed)

- Groeneveld auto greasing system
- 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
- System for reverse camera
- Wiggins quick fuelling system
- Tyre pressure monitoring

\*standard specification for machines may vary according to region



- The exclusive onboard weighing option presents the operator with real time information on the payload while the machine is being loaded. A 'limp home' mode can also be activated if the machine is significantly over-loaded.
- The incorporation of a Pitch and Roll sensor in the vehicle allows the bin to not be operated if the truck is in an unsafe



• The park brake automatically applies when neutral is selected and it is not possible to engage neutral at speed. Tourque dependent park brake release (hill assist) ensures no roll back on slopes.



position.

• Full hand-rails kit can be installed to provide even more safety when performing engine checks.



• Keyless start, driver identity, and access codes ensures no unauthorized operation of your equipment.



• Both operator or site selectable maximum speed control allows the vehicle to automatically deaccelerate and apply the retarder to prevent onsite speeding.



• Reverse cameras are available for factory or on site fitment ensuring full view when reversing.



 Optional Tyre pressure - monitoring System ensures that the operator has real time information on all tyres pressure and temperature conditions.



- The best in class retarder and engine braking automatically applies when the operator lifts his foot off the accelerator. Retarder aggressiveness can be simply adjusted on the sealed switch module ensuring maximum descent control for all
- All trucks can be set up to automatically sound the horn when starting or switching between forward and reverse.



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