B50D6X6 DUMP TRUCK



key features

• **Gross Power** 380 kW (510 hp)

• Gross Torque 2 200 Nm (1,622 lbft)

• Rated Payload 45 400 kg (100 090 lbs)





Configuration

Mercedes Benz OM502LA

V-8

Turbocharged and intercooled Aspiration

Cooling system Liquid cooled with single pass radiator as well

as charge air cooler

380 kW (510 hp) @ 1 800 rpm SAE J1349 372 kW (506 hp) @ 1 800 rpm Gross power

Net power

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

15.93 litres (972 cu.in) Displacement 640 litres (169 US gal) Fuel tank capacity

Full automatic planetary transmission with

integral retarder

Engine mounted with rear output Layout Gear layout Constant meshing planetary gears, clutch

operated

6 Forward, 1 Reverse Gears

Clutch type Hydraulically operated multi-disc

Control type Electronic

Hydrodynamic, with lock-up in all gears Torque converter layout

1st 2nd 3rd $_4$ th $_{5}$ th 6th Vehicle speeds 5,5 11,7 16,9 25,8 33,8 38,4 4,7 km/h Low range 3,4 7,3 10,5 16,0 21,0 23,9 2,9 mph

> 6th 3rd 1st 2nd 4th 5th

High range 7,5 15,9 23,0 35,2 46,0 52,3 14,3 21,9 28,6 32,5 9,9

TRANSFER CASE

AGR 17100

Lavout Three in-line helical gears

Output differential Interaxle 33/67 proportional differential, pneumatically/spring lockable whilst stationary

or on the move.

Differential type Final drive type Housing type

Two-speed spiral bevel type

Outboard heavy duty planetary on all axles

Steel fabricated

SERVICE BRAKE

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

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

DATION SYSTEM FNGINF BRAKE

Automatic exhaust brake and Engine Valve

Brake (EVB)

Maximum retardation

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)

Tyre size

Type

875/65 R29 Radial Earthmover

Maximum ground pressure (laden at 15% sinkage of unloaded radius)

161 kPa (23 psi)

SUSPENS

Front type

Semi-independent leading A-frame supported

Rear type

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 rubber-bushed links for ideal vertical movement and a transverse link for lateral restraint

HYDRAULIC SYSTEM 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 **Pump Type** Application Steering, tipping, hydraulic brake charging,

suspension and cooling fan drive 350 /min (92.5 US gal/min)

Flow 25 MPa (3,626 psi) Pressure

Filter 5 micron

PNEUMATIC SYSTEM

System pressure

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

functions

750 kPa (109 psi)

ELECTRICAL SYSTEM

Voltage

Two maintenance free permanently sealed **Battery type** 2 x 105 Ah (optional 2 extra batteries) Battery capacity

28 V 100 A Alternator rating

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

steering pump.

+- 42° Angle Lock to lock turns 4,2

21,4 m³ (28.0 yd³) 28,2 m³ (36.9 yd³) Capacity: Struck Heaped **SAE 2:1** 45 400 kg (100,090 lbs) 11,2 s (60° tip angle) Rated payload Raise time Power down time 9,9 s (60° tip angle)

70° standard, or any lower angle

programmable

Tipping angle

17 710 kg (39,044 lbs) Front Empty: 9 433 kg (20,796 lbs) 9 010 kg (19,864 lbs) Middle Rear Total 36 153 kg (79,704 lbs)

Laden: Front

23 954 kg (52,809 lbs) Middle 29 011 kg (63,985 lbs) 28 588 kg (62,026 lbs) 81 553 kg (179,793 lbs) Rear Total

Cab

ROPS/FOPS certification

74dBA Sound Pressure • Protective rear window guard • Handrails on fenders · Tilt cab for service access · Gas strut

supported door • Tinted safety glass • Sliding windows • Rear view mirrors- regular and wide angle • Electric adjust and heated mirrors (one per side) • Wiper/washer with intermittent control • Sand/dust deflector for windshield • Tilt and telescoping steering

wheel • Adjustable air suspension seat with retractable seat belt, adjustable damper, fore/aft isolator & automatic height positioning system • Operator and trainer grab handles

• Fold-away trainer seat with retractable seat belt • HVAC climate control system with filtered and ducted air • Air horn • Overhead

console for FM and 2-way radio, compartments for storage, electrical relays and circuit breakers and control & modules

 Toolbox • Clothing hooks strap • 12V power outlet/12V cigarette lighter • Ashtrays • Drinks holders • Cooled/heated lunchbox

STANDARD EQUIPMENT continued...

• Wheel spanner set • Analogue Gauges

• Engine coolant temperature • Engine oil pressure • System air pressure • Transmission oil temperature • Fuel • Speedometer

• LCD Display • Transmission gear selection

• Tachometer • Battery voltage Hourmeter • Odometer

Brakes Spring applied air release park brake on rear

driveshaft

Other Groeneveld central lubrication system

Body liners • Driver ID & Immobilizer • Work lights • Artic reverse light • Electrical horn

• Flashing beacon • Bell Fleetm@tic hardware

continued... Provision for:

Reverse camera and alarm

Wiggins quick fuelling system

OPTIONAL EQUIPMENT

(Factory and field installed) Exhaust body heating

• 2 extra batteries • Fuel filter heating element

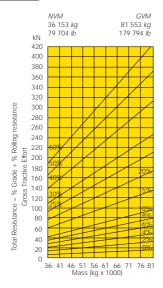
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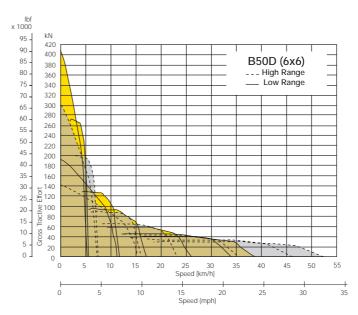
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· Autogate · Bin/body without liners for

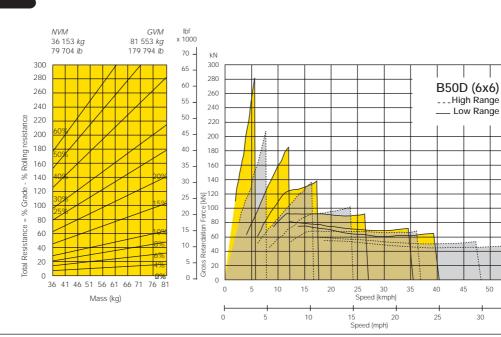
sand/mud application

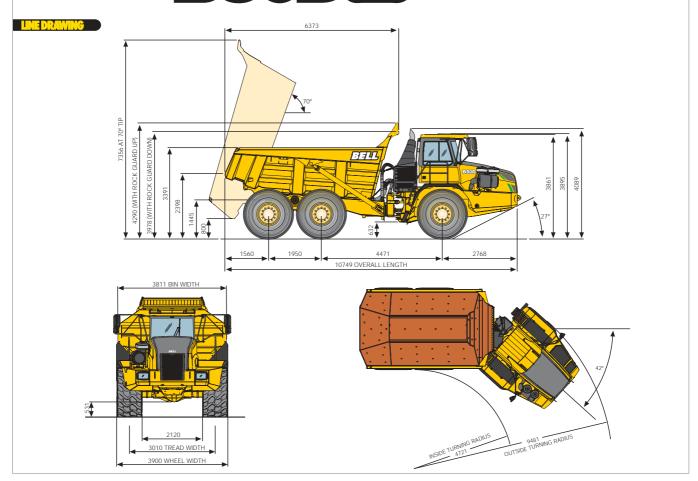
GRADEABILITY/RIMPULL





RETARDATION





Features of the B501

The B50D delivers the following Artic Truck benefits (not available to rigid haul trucks)

- Lower capital investment
- Better fuel economy
- Reduced service time costs and maintenance
- Superior gradeability
- Higher flotation
- All-weather working capacity
- Valuable versatility over rigid trucks.....the B50D is equally at home in mining applications or construction type earthmoving -

"Versatile to go where the work is."

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