

key features

- Gross power
- Gross torque
- Gross weight

170 kW (228 hp)

810 Nm (597 lbf)

32 805 kg (72, 320 lbs)





Configuration

Mercedes Benz OM906LA

I-6 with exhaust brake and Engine Valve Brake

Turbocharged and intercooled Aspiration

Cooling system Single pass radiator & charge air cooler 170 kW (228 hp) @ 2 200 rpm SAE J1349 165 kW (221 hp) @ 2 200 rpm Gross power

Net Power

810 Nm (597 lbft) @ 1 050 -1 850 rpm Gross torque

SAF J1349

780 Nm (575 lbft) @ 1 050 -1 850 rpm Net torque

6,37 litres (389 cu.in) Displacement Fuel tank capacity 200 /(58 US gal)

Layout Gear layout Clutch type Torque converter layout Vehicle speeds

ZF 6HP592C with integral retarder Engine mounted box with rear output Constant meshing planetary gears Hydraulically operated multidisc Hydrodynamic, with lock-up in all gears 2nd 3rd 4th 1st 5th 6th

15 25 35 50 60 10 km/h 9 15 21 30 36 6 mph

TRANSFER CASE

VGR 13 100

Output differential

Interaxle 67/33 proportional differential, pneumatically lockable whilst stationary or on the move.

Bell 14T

Spiral bevel type with Limited Slip Differential type Final drive type Outboard heavy duty planetary Steel fabricated

Housing type

**BRAKING SYSTEM** 

SERVICE BRAKE

Dual circuit, full hydraulic actuation caliper brakes

on all wheels

164 kN (36,900 lbf) Maximum brake force

Spring applied, air released driveline mounted PARK & EMERGENCY

disc

396 kN (89,000 lbf) Maximum brake force

Automatic exhaust brake and Engine Valve Brake ALIXILLIARY BRAKE

442 kW (593 hp) Maximum retardation

20,5R25 Tyre: Size

Radial Earthmover Type

Maximum ground pressure

134 kPa (19 psi) (laden)

SUSPENSION SYSTEM

Semi-independent leading arm type linkages Front: Type

supported by nitrogen/oil struts

Pivoting walking beams equalize the load on Rear: Type each axle with laminated suspension blocks.

Each axle is coupled to the chassis by a system of four rubber-bushed links for ideal vertical movement.

Full load sensing system. A ground-driven, load

sensing emergency steering pump is integrated

into the main system

Flow 184 /min (48.6 US gal/min)

25 MPa (3,915 psi) Pressure

10 micron Filter

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

850 kPa (123 psi) System pressure

**ELECTRICAL SYSTEM** 

24 V Voltage

Two maintenance free permanently sealed **Battery Type** Battery capacity

2 x 105 Ah (optional 2 extra batteries)

28 V 80 A

STEERING SYSTEM

Alternator rating

Hydrostatically actuated by two double acting

cylinders, with ground-driven emergency

steering pump.

+- 45 degrees Angle

Lock to lock turns

8,5 m<sup>3</sup> (11.1 cu.yd) Capacity: Struck Heaped, SAE 2:1 11 m<sup>3</sup> (14.4 cu.yd) 13,6 m<sup>3</sup> (17,8 cu.yd) SAE 1:1 18 000 kg (35,683 lbs) Rated payload

Raise time 12 s 6,0 s Power down time 70 degrees Tipping angle

**OPERATING WEIGHTS** 

**Empty: Front** 7 845 kg (17,295 lbs) 3 550 kg ( 7,826 lbs) 3 410 kg ( 7,518 lbs) AlhhiM Rear 14 805 kg (32,639 lbs) Total Laden: Front 8 390 kg (18,496 lbs) 12 277 kg (27,066 lbs) Middle 12 138 kg (26,758 lbs) Rear Total 32 805 kg (72,320 lbs)

Cab

STANDARD EQUIPMENT ROPS/FOPS certification Tilt cab for service access

· Tinted safety glass

• Rearview mirrors-regular and wide angle

Wiper/washer withintermittent control

• Tilt and telescoping steering wheel

· Adjustable, air suspension seat with

retractable seat belt

· Fold-away trainer seat with retractable seat

· HVAC climate control system with filtered

and ducted air · Wheel spanner set

Retarder Integral transmission retarder

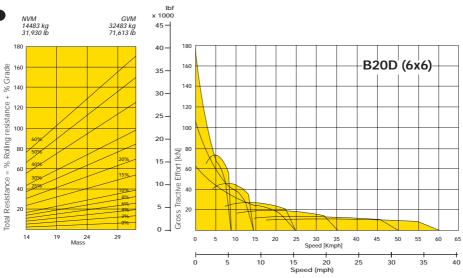
Ground driven emergency steering Other

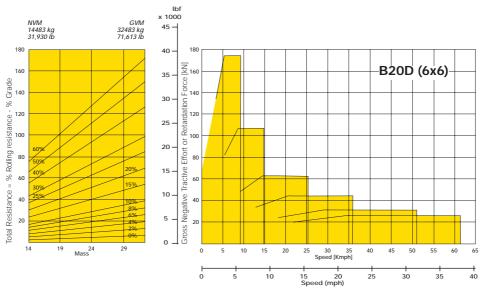
OPTIONAL EQUIPMENT

Flashing beacon Work lights Artic reverse light Electrical horn

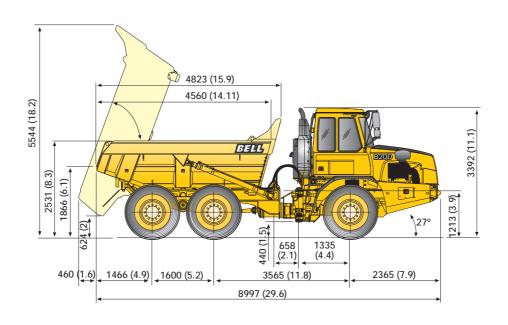
## B20D6x6 ARTICULATED DUMP TRUCK





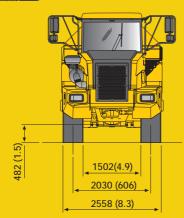


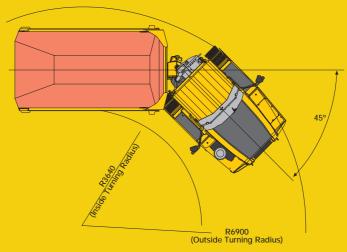
### LINE DRAWING



## B20D6x6 ARTICULATED

LINE DRAWING





# What makes the B20D a great performer...

- Supreme driver comfort from a nitrogen over oil strut service independent suspension system
- High performance engine with increased power and torque
- Improved cab setting new standards in comfort, sound levels and simplicity in operation
- Extra half tonne payload
- Improved tip cycles
- Tighter turning circle
- Fewer scheduled service requirements
- Electronic component protection
- Improved service access
- Powerful hydraulic transmission retarder drastically cuts brake use extending pad life up to a factor of five
- Conforms to on road axle road limits and width requirements in most countries.

BELL SOUTH AFRICA: Tel: +27 (0)11-928 9700 • Fax: +27 (0)11-928 9702
BELL INTERNATIONAL: Tel: +27 (0)35-907 9431 • Fax: +27 (0)35-797 4336
E-mail: sales@bellequipment.com • www.bellequipment.com

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.

Strong Reliable Machines Strong Reliable Support

