



Gross Power: 170 kw (228 hp) Gross Torque: 810 Nm (597 lbft) Rated Payload: 18 000 kg



Mercedes Benz OM906LA Configuration I-6 with exhaust brake and

Engine Valve Brake (EVB) Aspiration Turbocharged and intercooled Cooling system Single pass radiator & charge

air cooler

170 kW (228 hp) @ 2,200 rpm Gross power

SAE J1349

165 kW (221 hp) @ 2,200 rpm **Net Power**

Gross torque 810 Nm (597 lbft) @

1,050 -1,850 rpm SAE J1349

780 Nm (575 lbft) @ Net torque 1,050 -1,850 rpm Displacement 6,37 litres (389 cu.in) Fuel tank capacity 200 I (58 US gal)

TRANSMISSION Allison 3000P ORS (with

optional retarder)

Layout Engine mounted box with rear

output

Gear layout Constant meshing planetary

gears

Clutch type Hydraulically operated

multidisc

Torque converter layout Hydrodynamic, with lock-up

in all gears

VGR 13 100

Output differential Interaxle 50/50 proportional

differential, pneumatically lockable whilst stationary or on the move.

Differential type

Bell 14T

Spiral bevel type with Limited

Outboard heavy duty Final drive type

planetary

Steel fabricated Housing type

BRAKING SYSTEM

SERVICE BRAKE

Dual circuit, full hydraulic

actuation caliper brakes on all

wheels

Maximum brake force 164 kN (36,900 lbf)

PARK & EMERGENCY Spring applied, air released

driveline mounted disc. Maximum brake force 396 kN (89,000 lbf)

AUXILLIARY BRAKE

Automatic exhaust brake and Engine Valve Brake (EVB)

442 kW (593 hp)

Maximum retardation

Tyre: Size

Type

Maximum ground pressure (laden)

20,5R25

Radial Earthmover

134 kPa (19 psi)

Front: Type

Rear: Type

Semi-independent leading arm type linkages supported

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 system of four rubber-bushed links for ideal

verticalmovement.

Variable displacement with load sensing system. A ground-driven, load sensing emergency steering pump is integrated into the main

system

184 l/min (48.6 US gal/min) Flow

Pressure 25 MPa (3,915 psi)

10 micron

Filter

Air drier with heater and integral unloader valve, serving park brake and auxiliary functions 850 kPa (123 psi)

System pressure

Raise time

Power down time Tipping angle

12 s 6,0 s70°

Voltage

Battery Type

24 V Two maintenance free permanently sealed

Battery capacity 2 x 105 Ah (optional 2 extra

batteries) 28 V 80 A

Alternator rating

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

emergency steering pump.

mph

Angle Lock to lock turns +- 45 degrees

4.1

VEHICLE SPEEDS km/h 1st

2nd

3rd

4th

5th

6th

R

8 13 13.7 22 31 19.3 45 28 50 31 5.6

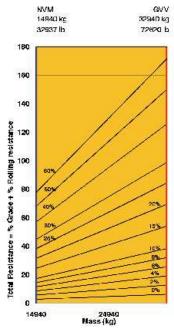


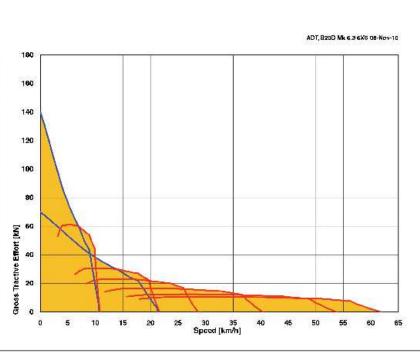
B20 D 6x4 ARTICULATED DUMP TRUCK

LOAD CAPACITY & GROUND PRESSURE

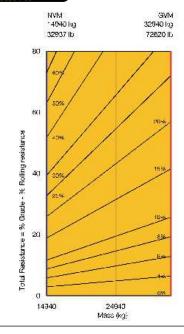
WEIGHTS			GROUND PRESSURE			LOAD CAPACITY		
UNLADEN	kg	lbs	LADEN	kPa	psi	BODY	m³	cu.yd
Front	7,520	16,578	Front	207	30	Struck Capacity	8,5	11,1
Middle	3,520	7,760	Middle	293	42	SAE 2:1 Heaped	11	14,4
Rear	3,250	7,165	Rear	291	42	SAE 1:1	13,6	17,8
Total	14,290	31,504				SAE 2:1 Capacity		
LADEN						with Autogate	N/A	N/A
Front	8,402	18,523						
Middle	12,079	26,630				Rated Payload	18 000 kg	35,683 lbs
Rear	11,809	26,034						
Total	32,290	71,187						

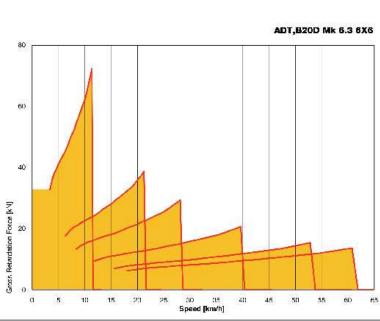
GRADEABILITY/RIMPULL NVM





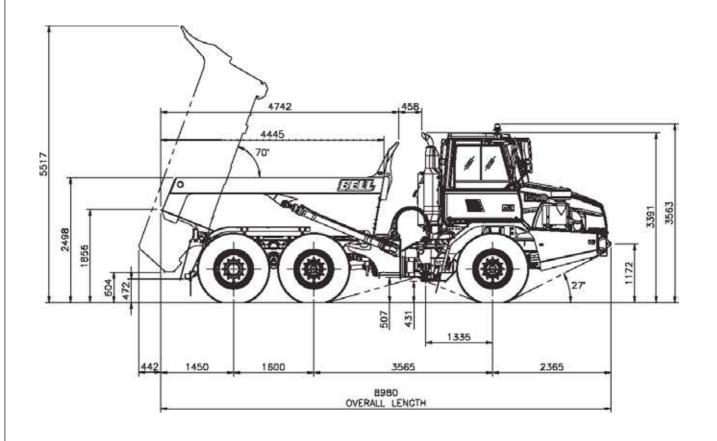
RETARDATION

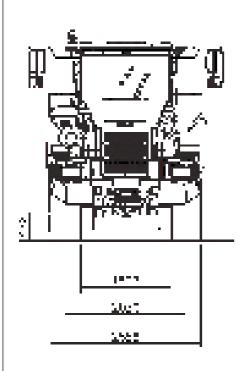


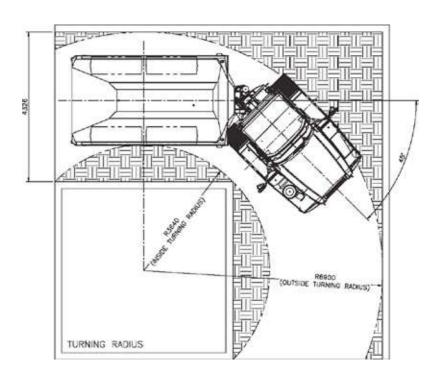




DIMENSIONS







B20D6x4 ARTICULATED BUMPITRUCK

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
- 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 76 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
- 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 (optional)

Other

(Factory or field installed)

- On Board Weigh System (OBW)
- Electrically adjustable rearview mirrors - one per side
- 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



B20 D 6X4 ARTICULATED BUMP) TRUCK

• 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 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.



• 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 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 de-accelerate 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 conditions.
- All trucks can be set up to automatically sound the horn when starting or switching between forward and reverse.



Tel: +33 (0) 5 55 89 23 56
Tel: +34 91 879 60 19

Tel:

Tel: +49 (0) 6631 / 91 13 - 0 Tel: +27 (0) 11-928-9700

Tel: +44 (0) 1283 712862

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

