## BELS DARTICULATED DUMP TRUCK

key features

Gross power

170 kw (228 hp)

• Gross torque

810 Nm (597 lbf)

Gross weight

33,042 kg (72,845 lbs)







Mercedes Benz OM906LA

Configuration I-6 with exhaust brake and Engine Valve

Brake (EVB)

Turbocharged and intercooled **Aspiration** 

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

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

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

SAE J1349

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

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

ZF 6HP592C with integral retarder Engine mounted box with rear output Layout Gear layout Constant meshing planetary gears Clutch type Hydraulically operated multidisc

Torque converter layout Vehicle speeds

Hydrodynamic, with lock-up in all gears 1st 2nd 3rd 4th 5th 6th R 13 22 31 45 50 9 km/h 5 13.7 19.3 28 8 31 5.6 mph

TRANSFER CASE

VGR 13 200

Output differential

Interaxle 50/50 (6x4) [66/33 (6x6 mode)] proportional differential, pneumatically lockable whilst stationary or on the move.

**AXLES** 

Bell 14T Spiral bevel type with Limited Slip Differential type Final drive type Outboard heavy duty planetary

Housing type Steel fabricated

**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. 396 kN (89,000 lbf)

Maximum brake force **AUXILLIARY BRAKE** Automatic exhaust brake and Engine Valve

Brake (EVB)

Maximum retardation 442 kW (593 hp)

WHEELS

Tyre: Size 20.5R25

Type Radial Earthmover

Maximum ground pressure

(laden) 134 kPa (19 psi)

SUSPENSION SYSTEM

Front: Type Semi-independent leading arm type linkages

supported by nitrogen/oil struts

Rear: Type 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

vertical movement.

HYDRAULIC SYSTEM

Full load sensing system. A ground-driven, load sensing emergency steering pump is

integrated into the main system 184 I/min (48.6 US gal/min)

Flow Pressure 25 MPa (3,915 psi)

Filter 10 micron

PNEUMATIC SYSTEM

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

System pressure 850 kPa (123 psi)

**ELECTRICAL SYSTE** 

Voltage 24 V

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

Alternator rating 28 V 80 A

STEERING SYSTEM

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

emergency steering pump.

Angle +- 45 degrees

Lock to lock turns 4,1

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

Raise time 12 s Power down time 6 s

Tipping angle 70 degrees

**OPERATING WEIGHTS** 

8,270 kg (18,320 lbs) Empty: Front Middle 3,810 kg (7,683 lbs) Rear 3,560kg (7,147 lbs)

Total 15,640 kg (33,151 lbs)

Laden: Front 9,170 kg (19,522 lbs) Middle 12,360 kg (26,936 lbs) Rear 12,110kg (26,387 lbs)

6x6 Additional 230 kg

LABLE EQUIPMENT\*

Total

Cab

ROPS/FOPS certification Tilt cab for service access

33,640 kg (72,845 lbs)

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 belt

• HVAC climate control system with filtered and ducted air

Wheel spanner set

• On board weigh system

Memory Module

• Radio/CD/Tape

Retarder Integral transmission retarder

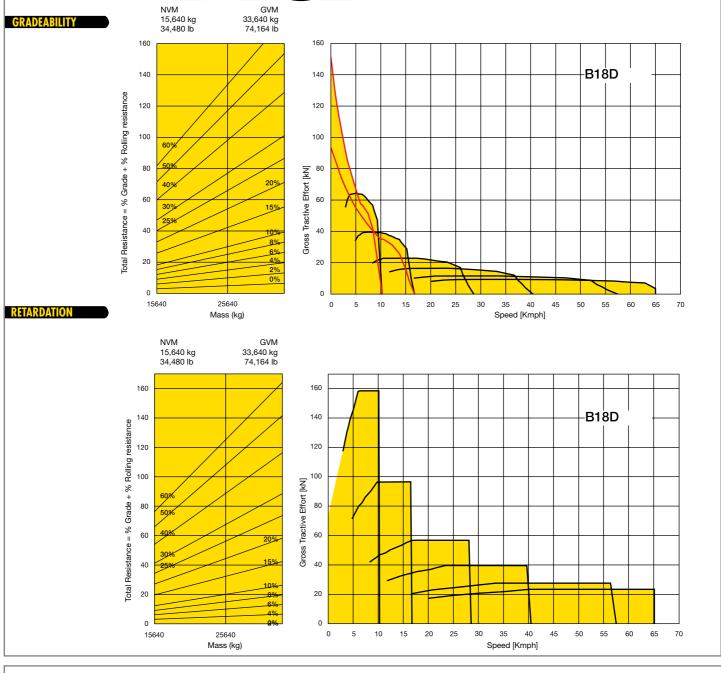
Ground driven emergency steering

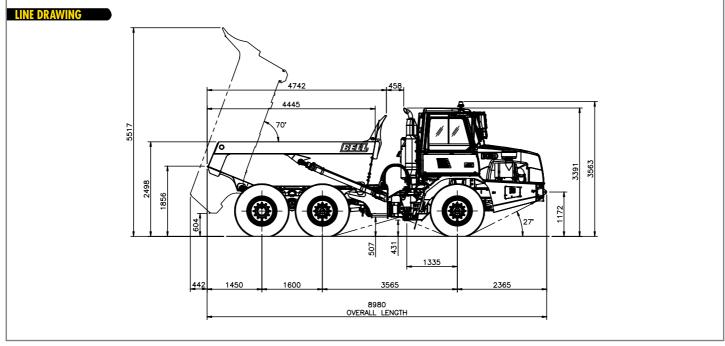
**Other** Flashing beacon

Work lights Artic reverse light Electrical horn

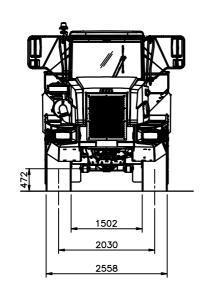
\*standard specification for machines may vary according to region

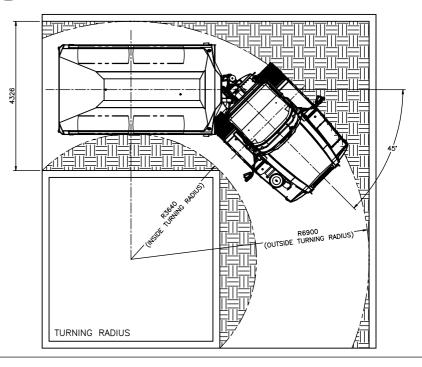
## B D ARTICULATED BUMP TRUCK





LINE DRAWING





## What makes the **BIRD** a great performer...

- Supreme driver comfort from a nitrogen over oil strut semi-independent suspension system
- High performance engine with increased power and torque
- Improved cab setting new standards in comfort, sound levels and simplicity in operation
- **Quicker 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

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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** 

