

# B30D ARTICULATED TRUCK

**\*NOW WITH AN  
ADDITIONAL 35kW!**



- **Gross power** 240 kw (322 hp)
- **Gross torque** 1250 Nm (922 lbft) @ 1200 - 1600 rpm
- **Load capacity** 16,6 m<sup>3</sup> SAE 2:1 heaped



**D SERIES**

# B30D ARTICULATED TRUCK

**ENGINE** Mercedes Benz inline 6 cylinder, turbocharged, intercooled, low emission diesel engine

**Gross power** 240 kW (322 hp) @ 1 200 - 1 600 rpm

**Net Power** 232 kW (311 hp) @ 1 200 - 1 600 rpm

**Gross torque** 1 250 Nm (922 lbf) @ 1 200 - 1 600 rpm

**Net torque** 1 200 Nm (885 lbf) @ 1 200 - 1 600 rpm

**Displacement** 7,2 litres (439 cu.in)

**Fuel tank capacity** 340 l (90 US gal)

**Auxiliary Brake** Exhaust brake  
Engine Valve Brake (EVB)

**Certification** OM 926 LA.111/4-00 meets Europe (EU) step2; OM 906 LA.E3A/1 meets Europe (EU) step 3

**TRANSMISSION** Engine mounted, fully automatic ZF planetary transmission with six forward gears and one reverse gear.

**Torque Converter** Hydrodynamic with lock-up in all gears.

**Model** 6HP592C Ecomat 2 Plus

**Control Type** Electronic

**TRANSFER BOX** Remote mounted

**Manufacturer** VGR

**Model** 13100

**Layout** Three in-line helical gears.

**Output Differential** 67/33 torque proportioning, Pneumatically lockable on the move.

**AXLES** High strength steel fabricated with spiral bevel type gears on the limited slip locking differential and heavy duty outboard planetary gears.

**Model** Bell 18T

**Brakes** Dual circuit, hydraulically actuated dry disc brake calipers on all axles.

**Max brake force** 164 kN (36900 lbf)

**Parking Brake** Spring applied, air released driveline mounted disc.

**Max brake force** 396 kN (89000 lbf)

**Total Retardation** 442 kW (593 hp)

**WHEELS** Earthmover

**Tyre** 23.5R25



**FRONT SUSPENSION** Semi-independent, quad rubber mounted leading arm linkages supported by nitrogen and oil filled struts.

**REAR SUSPENSION** Pivoting walking beams, distributing equal load through laminated rubber suspension blocks. Each axle is coupled to the chassis by four rubber-bushed links for ideal vertical movement.

**HYDRAULIC SYSTEM** Full load sensing system incorporating a ground driven emergency steering pump.

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

**Pressure** 25 Mpa (3915 psi)

**Filter** 10 micron

**STEERING SYSTEM** Hydrostatically actuated, low effort, fast acting.

Two double-acting steering cylinders

**Lock to lock turns** 4.1

**Steering Angle** +-45°

**DUMPING SYSTEM** Two double-acting, single stage, dump cylinders

**Raise Time** 12 s

**Lowering Time** 6 s

**Tipping Angle** 70°

**PNEUMATIC SYSTEM** 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** 2 X 105 Ah

**Battery Capacity** 28 V 80 A

**Alternator Rating**

**VEHICLE SPEEDS**

1st	8	5
2nd	13	8
3rd	22	14
4th	31	19
5th	44	28
6th	53	33
R	8 km/h	5 mph

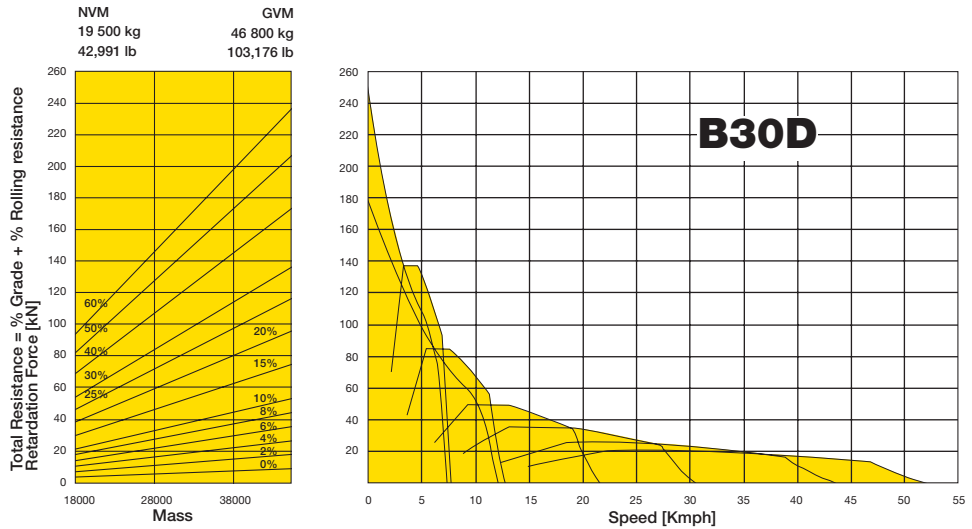


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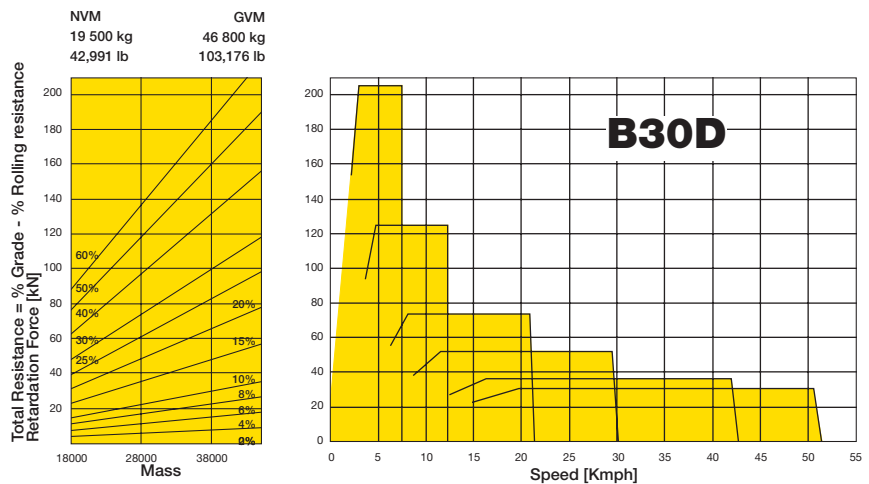
## LOAD CAPACITY & GROUND PRESSURE

WEIGHTS			GROUND PRESSURE <small>At 15% sinkage of unloaded radius and specified weights</small>			LOAD CAPACITY		
<b>UNLADEN</b>	<b>kg</b>	<b>lbs</b>	<b>UNLADEN</b>	<b>kPa</b>	<b>psi</b>	<b>BODY</b>	<b>m<sup>3</sup></b>	<b>cu.yd</b>
Front	9 850	21,716	Front	95	13.8	Struck Capacity	12,6	16.4
Middle	4 900	10,803	Middle	47	6.8	SAE 2:1 Capacity	16,6	21.7
Rear	4 750	10,472	Rear	46	6.7	SAE 1:1 Capacity	20,3	26.6
Total	19 500	42,991				SAE 2:1 Capacity with Autogate	17,7	23.3
<b>LADEN</b>			<b>LADEN</b>					
Front	13 500	29,762	Front	130	18.9			
Middle	16 730	36,883	Middle	161	23.3	<b>Rated Payload</b>	27 300 kg	60,186 lbs
Rear	16 570	36,531	Rear	159	23.0			
Total	46 800	103,176						

## GRADEABILITY/RIMPULL

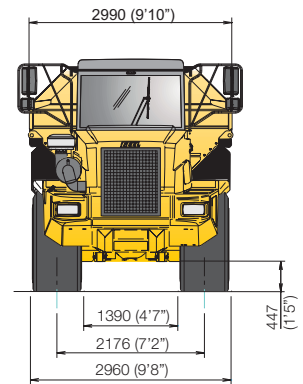
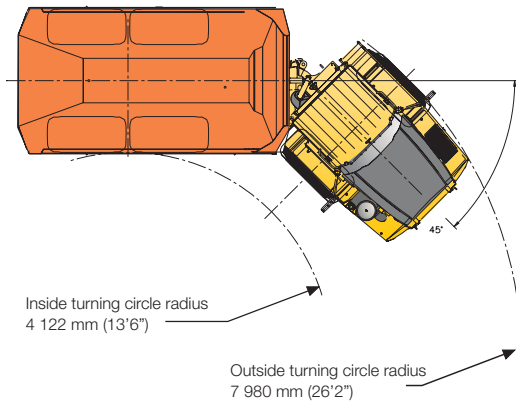
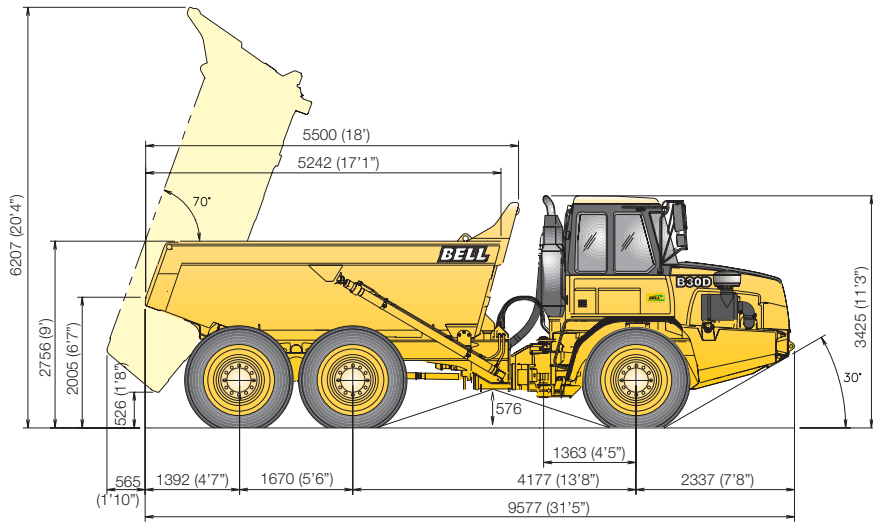


## RETARDATION



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## DIMENSIONS



**Overall width with optional**  
 Autogate 3462 mm (11'4")  
 750 wheelsets 2967 mm (9'9")

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## STANDARD 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
  - Sound insulated to 72 dB(A) to ISO 6394
  - 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
- MDU Features**
  - Tipping counter
  - Trip timer
  - Trip distance
  - Fuel Consumption
  - Diagnostics
  - Intermittent wiper timing control
  - Speedo calibration for alternative tyre sizes
  - Metric /Imperial unit selection
  - Warning lights with audible buzzer
- Analogue Gauges**
  - Engine coolant temperature
  - Engine oil pressure
  - Transmission oil temperature
  - Fuel
- LCD Display**
  - Transmission gear selection
  - Tachometer
  - Battery voltage
  - Hourmeter
  - Odometer
  - System air pressure
- Retarder**
  - Integral transmission output retarder with 6 settings
- Other**
  - Ground driven emergency steering
  - Bin safety prop
  - Articulation lock

## OPTIONAL EQUIPMENT

(Factory or field installed)

- Retractable sun visor
- Exhaust body heating
- Autogate
- Body liners
- On Board Weigh System (OBW)
- Fleetmatic Satellite Monitoring System
- Driver ID
- Forward working lights
- Electrically adjustable rearview mirrors - one per side
- Artic reverse light
- 2 extra batteries
- Fuel heater
- External windshield visor
- Headlight protection grills
- Rear window wiper
- Air horn
- Antenna mounting bracket
- 750/65R25 wheelsets
- Radio/CD/Tape
- Wet disc brakes (WDB)



## What makes the **B30D** a great performer...

- **With a highly efficient power and drivetrain combined with low rolling resistance, the Bell B30D delivers superior fuel efficiency**
- **High performance engine with increased power and torque and long service intervals**
- **Powerful hydraulic transmission retarder drastically cuts brake use extending pad life up to a factor of five**
- **Fewer scheduled service requirements**
- **Supreme driver comfort from a nitrogen over oil strut independent suspension system**
- **Deluxe cab - setting new standards in comfort, sound levels and simplicity in operation**
- **Tight turning circle**
- **Electronic component protection**
- **Easy service access**
- **Fast tip cycles**
- **Low ground pressure to work jobs other trucks can't**

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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**

