

# B25D ARTICULATED TRUCK



- **Gross power** 205 kw (275 hp)
- **Gross torque** 1000 Nm (736 lbft) @ 1200 - 1600 rpm
- **Load capacity** 13,8 m<sup>3</sup> SAE 2:1 heaped



**DSERIES**

# B25D ARTICULATED TRUCK

## ENGINE

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

Gross power 205 kW (275 hp) @ 2 200 rpm  
 Net Power 198 kW (265 hp) @ 2 200 rpm  
 Gross torque 1 000 Nm (736 lbft) @ 1 200 -1 600 rpm  
 Net torque 970 Nm (714 lbft) @ 1 200 -1 600 rpm

Displacement 6,37 litres (389 cu.in)  
 Fuel tank capacity 340 l (90 US gal)  
 Auxilliary Brake Exhaust brake  
 Engine Valve Brake (EVB)

Certification OM 906 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 Brakes

Bell 15T  
 Dual circuit, hydraulically actuated dry disc brake calipers on all axles.

## Max brake force Parking Brake

164 kN (36900 lbf)  
 Spring applied, air released driveline mounted disc.

## Max brake force Total Retardation

396 kN (89000 lbf)  
 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

System Pressure 810 kPa (117 psi)

## ELECTRICAL SYSTEM

Voltage 24 V  
 Battery Type Two maintenance free permanently sealed  
 Battery Capacity 2 X 105 Ah  
 Alternator Rating 28 V 80 A

## 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

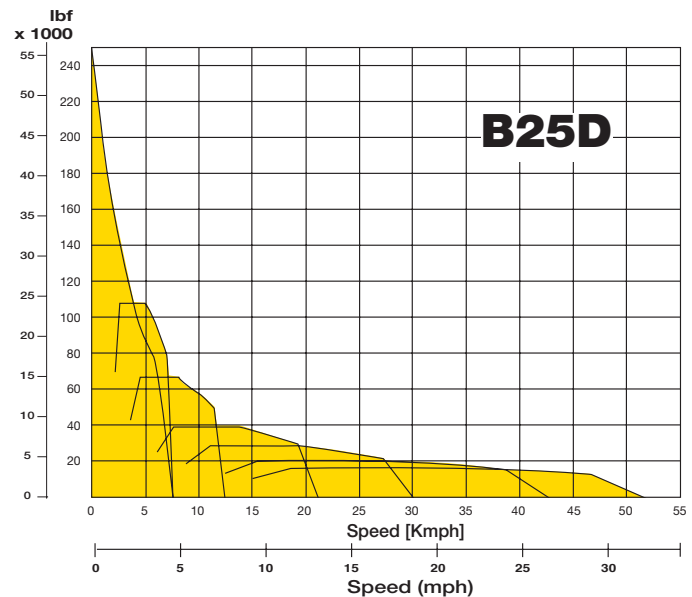
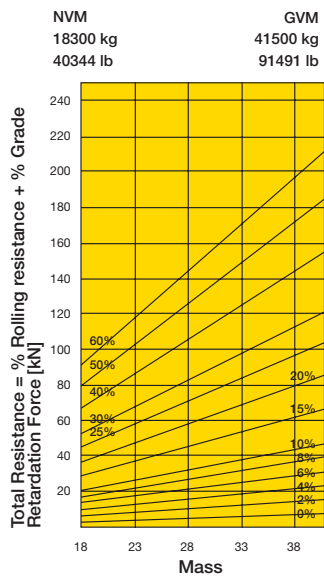


# B25D ARTICULATED TRUCK

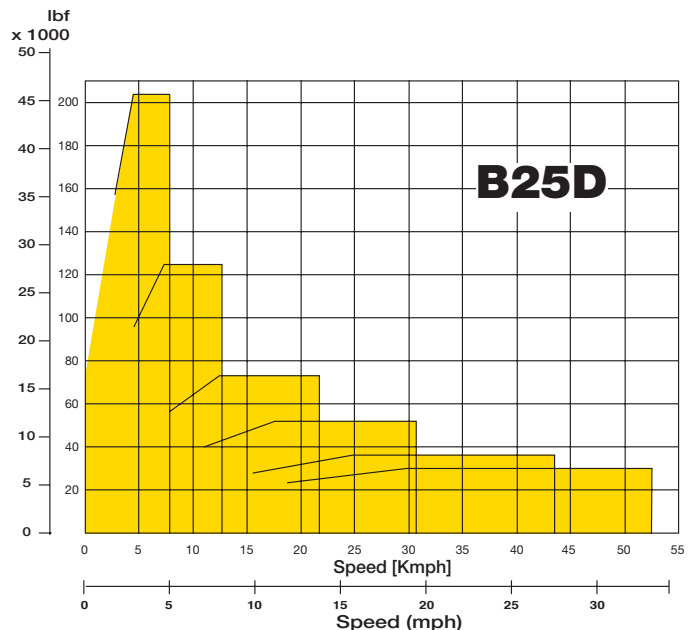
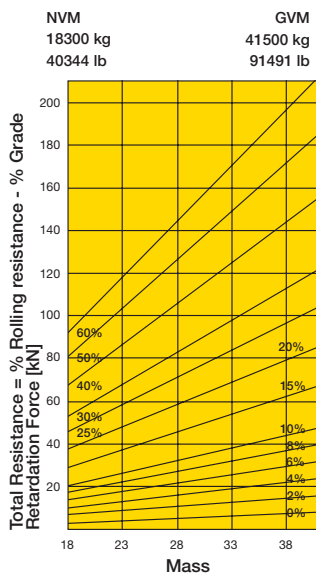
## LOAD CAPACITY & GROUND PRESSURE

WEIGHTS			GROUND PRESSURE			LOAD CAPACITY		
			At 15% sinkage of unloaded radius and specified weights					
UNLADEN	kg	lbs	UNLADEN	kPa	psi	BODY (Ribbed reinforced)	m <sup>3</sup>	cu.yd
Front	9 600	21,164	Front	92	13.5	Struck Capacity	10,5	13.7
Middle	4 430	9,766	Middle	43	6	SAE 2:1 Capacity	13,8	18.1
Rear	4 270	9,414	Rear	41	6	SAE 1:1 Capacity	16,9	22.1
Total	18 300	40,344				SAE 2:1 Capacity with Autogate	14,5	19
LADEN			LADEN			Rated Payload	23 200 kg	51,147 lbs
Front	12 640	27,866	Front	122	18			
Middle	14 510	31,989	Middle	140	20.5			
Rear	14 350	31,636	Rear	138	20			
Total	41 500	91,491						

## GRADEABILITY/RIMPULL

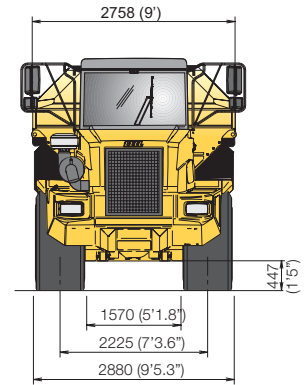
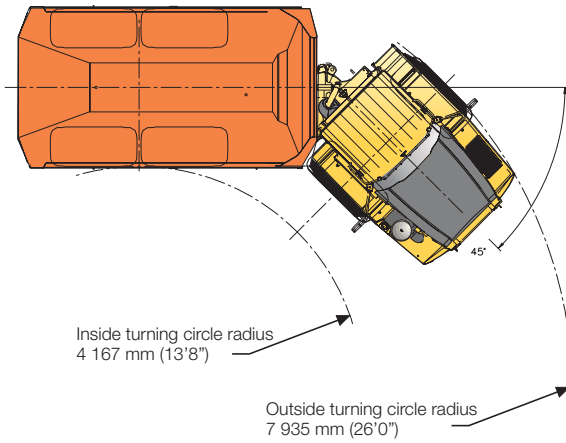
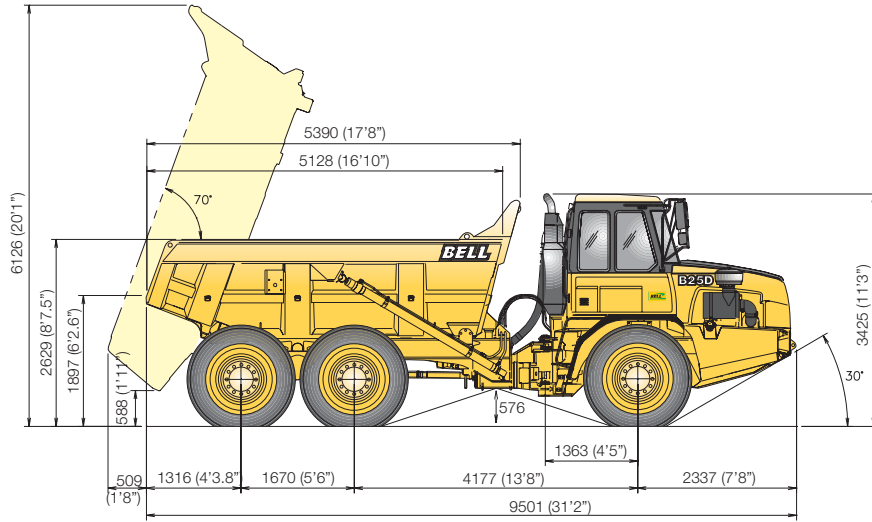


## RETARDATION



# B25D ARTICULATED TRUCK

## DIMENSIONS



Overall width with optional Autogate 3196 mm (10'6")



# B25D ARTICULATED TRUCK

## 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
- 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 72 dB(A) to ISO 6394

### 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

### LCD Display

- Fuel
- 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
- Radio/CD/Tape
- Memory Module (MM)



## What makes the **B25D** a great performer...

- **With a highly efficient power and drivetrain combined with low rolling resistance, the Bell B25D 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.**

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](mailto:sales@bellequipment.com) • [www.bellequipment.com](http://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**

