MDU Features

**Available Equipment**

- Warning lights with audible buzzer
- Metric / Imperial unit selection
- Speedo calibration for alternative
- Intermittent wiper timing control
- Diagnostics
- Fuel Consumption
- Transmission gear selection
- Trip distance
- Trip timer
- Tipping counter
- Operator / Site selected speed control
- Air horn
- Memory Module
- Radio/CD/Tape
- Sound insulated to 76 dB(A) to ISO 6396
- I-Tip programmable bin tip
- Cooled/heated lunch box
- Drinks holder
- Ash tray
- 12 V power outlet/12 V cigarette lighter
- Rotating beacon
- Filtered and ducted air
- HVAC climate control system with seat belt
- Fold-away trainer seat with retractable seat belt
- Adjustable, air suspension seat with tilt and telescoping steering wheel
- Wiper/washer with intermittent control
- Sun visor
- Rear view mirrors - regular and wide angle
- Sliding windows
- Tinted safety glass
- Gas strut supported door
- Tilt cab for service access
- Protective rear window guard
- ROPS/FOPS certification
- Tyre sizes
- Other vehicle gauges

*Standard specification for machines may vary according to region*

Low ground pressure to work jobs other trucks can’t

- Fast tip cycles
- Easy service access
- Electronic component protection
- Tight turning circle
- Deluxe cab - setting new standards in comfort, Supreme driver comfort from a nitrogen over oil strut independent suspension system
- Fewer scheduled service requirements
delivers superior fuel efficiency
- Powerful hydraulic transmission retarder
- High performance engine with increased power
- Bell B25D delivers superior fuel efficiency combined with low rolling resistance, the With a highly efficient power and drivetrain
- Fewer scheduled service requirements
- Drastically cuts brake use extending pad life up to a factor of five
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**Specifications**

- Gross Power: 205 kw (275 hp)
- Gross Torque: 1 000 Nm (735 lbft)
- Rated Payload: 23 200 kg (51,147 lbs)
**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)
- **Auxiliary Brake** Exhaust brake
- **Certification**
  - **Non Regulated** OM 906 LA.111/4-00 meets Europe (EU) step 2
  - **Regulated** 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. 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 15T

**BRAKING SYSTEM**

Dual circuit, full hydraulic actuation caliper brakes on all wheels

- **Maximum brake force** 164 kN (36,900 lbf)
- **Spring applied, air released driveline mounted disc.**
- **Maximum brake force** 396 kN (89,000 lbf)
- **Automatic exhaust brake and Engine Valve Brake (EVB)**
- **442 kW (593 hp)**

**WHEELS**

- **Tyre** Earthmover 23.5R25

**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)

**HYDRAULIC SYSTEM**

Variable displacement with 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**
- **4,1**
- **Steering Angle** +45°

**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
**WEIGHTS**

<table>
<thead>
<tr>
<th>WEIGHTS</th>
<th>GROUND PRESSURE</th>
<th>LOAD CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNLADEN</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front</td>
<td>9,620 kg</td>
<td>21,208 lbs</td>
</tr>
<tr>
<td>Middle</td>
<td>4,420 kg</td>
<td>9,744 lbs</td>
</tr>
<tr>
<td>Rear</td>
<td>4,360 kg</td>
<td>9,612 lbs</td>
</tr>
<tr>
<td>Total</td>
<td>18,400 kg</td>
<td>40,565 lbs</td>
</tr>
</tbody>
</table>

**LOAD CAPACITY & GROUND PRESSURE**

**LOAD CAPACITY**

<table>
<thead>
<tr>
<th>LOAD CAPACITY</th>
<th>m³</th>
<th>cu.yd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Struck Capacity</td>
<td>10.8</td>
<td>14.1</td>
</tr>
<tr>
<td>Rated Payload</td>
<td>23,200 kg</td>
<td>51,147 lbs</td>
</tr>
</tbody>
</table>

**GRADEABILITY/RIMPULL**

![Graph showing Gradeability/Rimpull](image)

**RETARDATION**

![Graph showing Retardation](image)
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

Available Equipment:

- Cab
  - ROPS/FOPS certification
  - Protective rear window guard
  - Tilt cab for service access
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  - 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

- 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

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