MDU Features

Cab

- Speedo calibration for alternative tyre sizes
- Intermittent wiper timing control
- Diagnostics
- Fuel Consumption
- Transmission gear selection
- On Board Weigh System (OBW)
- 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
- Mirrors - one per side
- Electrically adjustable rearview 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

Other

- Truck can be set up to automatically sound the horn when starting or switching between forward and reverse conditions.
- Retarder aggressiveness can be simply adjusted on the sealed switch module ensuring maximum descent control for all machine 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 machine conditions.
- All trucks can be set up to automatically sound the horn when starting or switching between forward and reverse.

- The exclusive on-board weighing option presents the operator with real-time information on the payload while the machine is being loaded. A ‘temp mode’ icon also can be activated if the machine is significantly over-loaded.
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- The incorporation of a Pitch and Roll sensor in the vehicle allows the horn to not be operated if the truck is in an unsafe position.
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- The park brake automatically applies when neutral is selected and it is not possible to engage neutral at speed. Traction dependent park brake release (if fitted) also ensures no roll back on slopes.
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- All trucks can be set up to automatically sound the horn when starting or switching between forward and reverse conditions.
- All trucks can be set up to automatically sound the horn when starting or switching between forward and reverse conditions.
- Blu@dvantage™ is a trademark of Bell Equipment Co. (PTY) Ltd
- BlueTec® is a registered trademark of Daimler AG

<table>
<thead>
<tr>
<th>Model</th>
<th>Engine Type</th>
<th>Power</th>
<th>Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>B40D</td>
<td>6x6</td>
<td>320 kW</td>
<td>2,100 Nm</td>
</tr>
</tbody>
</table>

Gross Power: 320 kW (429 hp)
Gross Torque: 2,100 Nm (1,549 lbft)
**AUXILIARY BRAKE**

Max brake force

**PARK & EMERGENCY**

Max brake force

**BRAKING SYSTEM**

Model

**AXLES**

Output Differential

Layout

Model

Manufacturer

Control Type

Model

Torque Converter

**TRANSMISSION**

Certification

AdBlue Tank Capacity

**Auxilliary Brake**

Fuel tank capacity

Displacement

Net torque

Gross torque

Net Power

Gross power

**ENGINE**

Engine Valve Brake (EVB)

Automatic exhaust brake and driveline mounted disc.

Spring applied, air released on front and middle axles.

Actuation wet disc brakes

Dual circuit, full hydraulic system with lockable whilst stationary or in move

Controlled fabricated with spiral bevel gears and one reverse gear.

High strength steel on the move

Interaxle 33/67 proportional

Three in-line helical gears.

Electronic Hydrodynamic with lock-up gears and one reverse gear.

Engine mounted, fully automatic Allison planetary.

**SYSTEM**

**STEERING**

Filter

Flow

**HYDRAULIC**

**SUSPENSION**

REAR

Tyre

Retardation

Maximum

Emergency steering pump.

Two double acting cylinders, hydrostatically actuated by a ground driven two double acting cylinders, incorporating a ground powered emergency steering pump.

Hysterically activated, two double acting cylinders, with ground pressure emergency steering pump.

**RETARDATION**

Variable Adjustable Hydraulic

**VEHICLE**

Alternator Rating

Battery Capacity

Battery Type

Voltage

**SYSTEM**

**PNEUMATIC**

Tipping Angle

Lowering Time

Steering Angle

Lock to lock turns

Gradeability/Rimpull

Total Resistance = % Grade + % Rolling resistance

Total Resistance = % Grade + % Rolling resistance

**LOAD CAPACITY & GROUND PRESSURE**

**WEIGHTS**

LADEN kg lbs

UNLADEN kg lbs

GVM

Gross Tractive Effort [kN]

Rated Payload

with Autogate

SAE 2:1 Capacity

SAE 1:1 Capacity

Struck Capacity

**BODY**

m³

**DIMENSIONS**
**B40D 6x6 DUMP TRUCK**  
**Mk VI**

**WEIGHTS**

<table>
<thead>
<tr>
<th></th>
<th>Total (kg)</th>
<th>GVM (kg)</th>
<th>LADEN kg</th>
<th>UNLADEN kg</th>
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<tr>
<td><strong>Gross Tractive Effort [kN]</strong></td>
<td>66,850</td>
<td>52,563</td>
<td>43,182</td>
<td>31,411</td>
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<tr>
<td><strong>Total Resistance = % Grade + % Rolling resistance</strong></td>
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<tr>
<td><strong>Rated Payload with Autogate</strong></td>
<td>37,000</td>
<td>24,2</td>
<td>23</td>
<td>18,5</td>
</tr>
</tbody>
</table>

**GROUND PRESSURE**

<table>
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<tr>
<th></th>
<th>Total (kPa)</th>
<th>GVM (psi)</th>
<th>LADEN kPa</th>
<th>UNLADEN kPa</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Resistance = % Grade + % Rolling resistance</strong></td>
<td>147,379</td>
<td>102.4</td>
<td>90.6</td>
<td>65.8</td>
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<tr>
<td><strong>Rated Payload with Autogate</strong></td>
<td>143,833</td>
<td>100.8</td>
<td>89.1</td>
<td>58.3</td>
</tr>
</tbody>
</table>

**LOAD CAPACITY & GROUND PRESSURE**

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**SYSTEMS**

**STEERING**
- Minimum Revolution: 4.7
- Steering Angle: ±42°
- Two double-acting, single stage, dummy cylinders

**ELECTRICAL**
- Alternator Rating: 28 V 100 A
- Battery Capacity: 300 Ah
- Battery Type: Two maintenance free, permanently sealed
- Battery Voltage: 24 V
- Battery Capacity [dry cell rating]: 2 X 105 Ah

**HYDRAULIC SYSTEM**
- System Pressure: 810 kPa (117 psi)
- Filter Pressure: 5 microns
- Flow: 25 l/min (79.26 gal/min)

**PNEUMATIC SYSTEM**
- System Pressure: 810 kPa (117 psi)
- Filter Pressure: 5 microns
- Flow: 25 l/min (79.26 gal/min)

**HYDRAULIC SUSPENSION**
- Front: Semi-independent, leading and trailing axles with laminated rubber blocks. Each axle with laminated rubber blocks. Each axle with laminated rubber blocks.
- Rear: Semi-independent, leading and trailing axles with laminated rubber blocks. Each axle with laminated rubber blocks. Each axle with laminated rubber blocks.

**GROSS TOUGHNESS**

<table>
<thead>
<tr>
<th></th>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
<th>5th</th>
<th>6th</th>
</tr>
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<tbody>
<tr>
<td>Mass (kg) Speed [Kmph]</td>
<td>65,808</td>
<td>16,292</td>
<td>17,218</td>
<td>32,298</td>
<td></td>
<td></td>
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<tr>
<td>Gradeability/Rimpull</td>
<td>7.3</td>
<td>7.6</td>
<td>7.8</td>
<td>8.1</td>
<td>8.3</td>
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<tr>
<td>Retardation Maximum</td>
<td>65,808</td>
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Engine
- Model: OM 501 LA
- Engine type: BlueTec technology 12.8 litre V6 turbocharged, intercooled, low emission diesel engine
- Fuel type: Diesel
- Rated Power: 320 kW (429 hp) @ 1800 rpm
- Gross Power: 310 kW (416 hp) @ 1800 rpm
- Displacement: 11,95 litres (730 cu.in)
- Torque: 2,100 Nm (1,549 lbf) @ 1,500 rpm
- Net Power: 2,037 Nm (1,502 lbf) @ 1,300 rpm
- Compression ratio: 17:1

Torque Converter
- Transmission: Electronic hydrodynamic with lock-up gears and one reverse gear

Engine Valve Brake (EVB)
- Automatic exhaust brake and driveline mounted disc.

Pack & Emergency
- Spring applied, air released actuation wet disc brakes on front and middle axles.

Service Brakes
- Dual circuit, full hydraulic, with 5 micron lateral restraint.

AUXILLIARY BRAKE
- Max brake force 218 kN (49,010 lbf) on front and middle axles.

TRANSFER BOX
- Control Type: Remote mounted
- Model: Electronic
- Torque Converter: Hydrodynamic with lock-up gears and one reverse gear.

Engine Mounting
- Engine mounted, fully automatic, AltoRide suspension and one rear shock absorber, with bolt-on adjusters.

Gearbox
- Model: Allison planetary
- Gearbox Type: Automatic Allison planetary transmission with six forward speeds
- Number of Gears: 6
- Intermediate speeds: 447 kW (600 hp)

Axles
- Front Axle: Bell 25T planer gears
- Middle Axle: Heavy Duty outboard Traction differential
- Rear Axle: Fabricated with spiral bevel gears and one reverse gear

Suspension
- Front Suspension: Semi-independent, leading Pivoting walking beams supported by A-frame
- Rear Suspension: Semi-independent, leading Pivoting walking beams coupled to the chassis by a Tri-Link system

Wheels
- Tyre: 29.5R25
- Type: Earthmover

Retarder
- Type: Variable Adjustable Hydraulic Retarder
- Maximum retardation: 440 kN (98,920 lbf)

BRAKING SYSTEM
- Model: Automatic exhaust brake and driveline mounted disc.

STEERING
- Filter: 5 micron
- Pressure: 25 Mpa (3,626 psi)
- Flow: 300 l/min (79,26 gal/min)

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Retardation
- Maximum: 440 kN (98,920 lbf)

Load in lock angle: 42°
Load in lock angle: 42°

Drive Systems
- Dual circuit, full hydraulic, with 5 micron lateral restraint.
- Tank Capacity: 40 l (118 US gal)

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- Maximum: 440 kN (98,920 lbf)
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Drive Systems
- Dual circuit, full hydraulic, with 5 micron lateral restraint.
- Tank Capacity: 40 l (118 US gal)

Fuel tank capacity
- 445 litres (118 US gal)
- Maximum: 440 kN (98,920 lbf)
- Load in lock angle: 42°

Axles
- Rear Axle: Bell 25T planer gears
- Middle Axle: Heavy Duty outboard Traction differential
- Front Axle: Bell 25T planer gears

Suspension
- Front Suspension: Semi-independent, leading Pivoting walking beams supported by A-frame
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MDU Features

- Cab calibration for alternative tyre sizes
- Intermittent wiper timing control
- Diagnostics
- Fuel Consumption
- Transmission gear selection
- On Board Weigh System (OBW)
- Trip distance
- 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
- Adjustible, air suspension seat with tilt and telescoping steering wheel
- Wiper/washer with intermittent control
- Sun visor
- Mirrors - one per side
- Electrically adjustable rearview 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

Other

- Full handrail kit
- Tyre pressure monitoring
- Wiggins quick fuelling system
- Antenna mounting bracket
- Rear window wiper
- Headlight protection grills
- External windshield visor
- Fuel heater
- Artic reverse light
- Forward working lights
- Driver ID and immobiliser
- Fleetmatic Satellite Monitoring System
- Body liners
- Autogate
- Exhaust body heating
- Retractable sun visor
- Groeneveld auto greasing system (Factory or field installed)
- Integral transmission output retarder
- Articulation lock
- Bin safety prop
- Ground driven emergency steering
- System air pressure
- Odometer
- Hourmeter
- Battery voltage
- Tachometer
- Transmission oil temperature
- Engine coolant temperature
- Warning lights with audible buzzer
- Metric / Imperial unit selection
- Parking lights with audible buzzer
- Engine sound level
- Engine oil pressure
- Transmission oil temperature
- Transmission gear selection
- Battery voltage
- Fuel gauge
- System air pressure
- General driven emergency steering
- Bin safety prop
- Actual fuel
- Integral transmission output retarder
- Retarder aggressiveness can be simply adjusted on the sealed switch module ensuring maximum descent control for all road conditions.

Retarder aggressiveness can be simply adjusted on the sealed switch module ensuring maximum descent control for all road 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 deceleration for all road conditions.
- All trucks can be set up to automatically sound the horn when starting or switching between forward and reverse.
- Optional Tyre pressure monitoring.
- Monitoring System ensures that the fundamental information on all tyre pressures and temperature conditions.
- The incorporation of a PTO and ROPS Sensor in the vehicle allows the lift to be fully operated if the truck is in an unsafe position.
- Reverse cameras are available for factory or site fitment ensuring maximum visibility when reversing.

- Both operator or site selectable maximum speed are automatically de-accelerated and apply the retarder to 20% or 40% of on-site speed setting.
- The exclusive on-board weighing option presents the operator with real time information on the payload while the machine is being loaded. A ‘temp mode’ icon can also be activated if the machine is significantly over-loaded.
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- Both operator or site selectable maximum speed are automatically de-accelerated and apply the retarder to 20% or 40% of on-site speed setting.
**AVAILABLE EQUIPMENT**

- Speedo calibration for alternative tyre sizes
- Intermittent wiper timing control
- Diagnostics
- Fuel Consumption
- Transmission gear selection
- On Board Weigh System (OBW)
- 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
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- Wiper/washer with intermittent control
- mirrors - one per side
- Electrically adjustable rearview 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
- Protective roll cage
- Tilt cab for service access
- Painted main frame and side rail anti-glare reflections
- Full frame guard
- Tilt cab for service access
- Manual or Automatic lift
- Reversing horn if selected
- Tilt cab for service access
- Anti-theft device
- Keyless start, driver assistance
- Folding steps
- Driver ID and immobiliser
- Fleetmatic Satellite Monitoring System
- Body liners
- Autogate
- Exhaust body heating
- Retractable sun visor
- Groeneveld auto greasing system

**V80 Features**

- Multi-impedance pickup
- Warning lights with audible buzzer
- Engine coolant temperature
- Engine oil pressure
- Transmission oil temperature
- Transmission oil pressure and temperature
- Turbocharger
- Battery voltage
- Batteries
- System air pressure
- General drive emergency steering
- Bin safety prop
-Acknowledged stock
- Integral transmission output retarder
- Chock or bleed included
- Greenhouse back-grazing system
- Tilted trolley
- Headlight protection grills
- External windshield visor
- Fuel heater
- Artic reverse light
- Forward working lights
- Driver ID and immobiliser
- Keyless start, driver assistance
- Retractable sun visor
- Groeneveld auto greasing system
- System air pressure
- Odometer
- Hourmeter
- Battery voltage
- Tachometer
- Transmission oil temperature
- Engine oil pressure
- Warning lights with audible buzzer
- Metric /Imperial unit selection
- All trucks can be set up to automatically sound the horn when starting or switching between forward and reverse.
- The best in class retarder and engine braking automatically applies when the operator lifts his foot off the accelerator.
- Full specification for machines may vary according to region.