### Features and Options

<table>
<thead>
<tr>
<th>ENGINE</th>
<th>STANDARD</th>
<th>OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jacobs Engine Brake®</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Dual element air cleaner with dust ejector valve</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Pre-cleaner with automatic dust scavenging</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Water separator</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Serpentine drive belt with automatic tensioner</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Provision for fast fill</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PNEUMATIC SYSTEM</th>
<th>STANDARD</th>
<th>OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine-mounted compressor</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Air drier with heater</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Integral unloader valve</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ELECTRICAL SYSTEM</th>
<th>STANDARD</th>
<th>OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery disconnect</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Drive lights</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Air horn</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Reverse alarm</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>White noise reverse alarm</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Rotating beacon</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Rear flashing lights</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Pitch roll sensor</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>LED reverse lights</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>LED artic reverse lights</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Halogen artic reverse lights</td>
<td>✔️</td>
<td>✔️</td>
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</tbody>
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<thead>
<tr>
<th>COOLING</th>
<th>STANDARD</th>
<th>OPTION</th>
</tr>
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<tbody>
<tr>
<td>Crankshaft mounted electronically controlled viscous fan drive</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Fan guard</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
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<tr>
<th>STEERING SYSTEM</th>
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<th>OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bi-directional ground-driven secondary steering pump</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>CAB</th>
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</tr>
</thead>
<tbody>
<tr>
<td>12-volt power outlet</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Cab utility bin (removable)</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Cup holder</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Heated/cooled lunch box</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Electric adjustable and heated mirrors</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Deluxe 10&quot; color LCD: Speedometer / Fuel gauge / Transmission oil temperature gauge / Engine coolant temperature gauge / LED function/warning indicators and audible alarm / Transmission gear selection / Tachometer / Battery voltage / Hour meter / Odometer / Fuel consumption / TP counter / TP timer / TP distance / Metric/English units / Service codes/diagnostics.</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Backlit sealed switch module functions with: Wiper control / Lights / Heated mirrors / Retarding aggressiveness / Transfer case differential lock / Transmission gear hold / Dump-body tip limit / Automatic dump-body tip settings / Airconditioner/Heater controls / Preselected Speed Control</td>
<td>✔️</td>
<td>✔️</td>
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<tr>
<th>DUMP BODY</th>
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<th>OPTION</th>
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</thead>
<tbody>
<tr>
<td>Dump-body mechanical lock - fully up</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Dump-body mechanical lock - partially up</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Body liner</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Tailgate</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Body heater</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Less dump body and cylinders</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
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<tr>
<th>OTHER</th>
<th>STANDARD</th>
<th>OPTION</th>
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<tbody>
<tr>
<td>Automation Traction Control (ATC)</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Wet disc brakes</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>800/45 R 30.5 Low Ground Pressure tires</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>20.5 R 25 Radial Earthmover tires</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Remote grease banks</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Automatic greasing</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Onboard weighing</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Load lights / stacks</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Reverse camera</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Hand rails</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Cab peak</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>High pressure hydraulic filter</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Fuel heater</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Belly cover</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Cross member cover</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Remote transmission filters</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Fleetm@tic® Classic Package for 5 years</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Window smash button</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Electronic hood opening</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

The compilation of standard and optional equipment may vary by market region. Please check with your local distributor.

**B20E**

**Low Ground Pressure | Mk 3**

**Tier 4f Certified**

- **6x6 Articulated Dump Trucks**
- **Gross Power:** 170 kW (228 hp)
- **Heap/Capacity:** 11 m³ (14.5 yd³)
- **Rated Payload:** 18,000 kg (39,683 lbs)
- **Operating Weight:** 34,493 kg (76,044 lbs)

---

**BELL INTERNATIONAL:**
- **Tel:** +27 (0)35-907 9431
- **E-mail:** marketing@bellequipment.com
- **Web:** www.bellequipment.com

**BELL INTERNATIONAL: Tel:** +61 (0)8-9355-2442

**Tel:** +33 (0)5-55-89-23-56

**Tel:** +49 (0)6631 / 91-13-0

**Tel:** +27 (0)11-928-9700

**Tel:** +7-495-287-80-02

**Tel:** +44 (0)1283-712862

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**Features and Options**

- **STANDARD**
- **OPTION**

---

**BELL INTERNATIONAL: Tel:** +27 (0)35-907 9431

**E-mail:** marketing@bellequipment.com

**Web:** www.bellequipment.com
**B20E Low Ground Pressure Articulated Dump Truck**

**ENGINE**
- Manufacturer: Mercedes-Benz (MTU)
- Model: OM934LA / 4R 1000
- Configuration: Inline 6, Turbocharged and Intercooled
- Gross Power: 170 kW (228 hp) @ 2,200 rpm
- Total Retardation Power Continuous: 178 kW (239 hp)

**WHEELS**
- Standard: Type Rotation
- 800/45 R 30.5

**FRONT SUSPENSION**
- Semi-independent, with hydraulic suspension
- Pneumatic suspension struts.

**HYDRAULIC SYSTEM**
- Two double-acting, single-acting, emergency steering pump is integrated into the main system.
- Full load sensing system serving as the prioritized steering, body and grade line.

**ELECTRICAL SYSTEM**
- Voltage: 24 V
- Battery Type: 24 V
- Maximum: 584 kW (783 hp)
- Continuous: 178 kW (239 hp)

**HYDRAULIC SYSTEM**
- Full load sensing system serving the prioritized steering, body, tipping and brake functions.

**DUMPING SYSTEM**
- Two double-acting, single-acting, emergency steering pump.
- Total Retardation Power: 170 kW (228 hp) @ 2,200 rpm

**TRANSMISSION**
- Manufacturer: Allison
- Model: 300PR 9RS
- Fully automatic planetary transmission with optional retarder

**SUSPENSION**
- Front Axle: 1,361 mm (4 ft. 5 in.)
- Rear Axle Center to Machine Front: 2,357 mm (7 ft. 8 in.)
- Load over height/Load Light: 3,385 mm (11 ft. 1 in.)

**Dimensions**

**Grade Ability/Rimpull**
1. Determine tractive resistance by finding intersection of vehicle mass and grade line. NOTE: 2% typical rolling resistance is already assumed in chart and grade line.
2. From this intersection, move straight right across charts until line intersects imputed curve.
3. Read down from this point to determine maximum speed attained at that tractive resistance.

**Load Capacity & Ground Pressure**

<table>
<thead>
<tr>
<th>OPERATING WEIGHTS</th>
<th>GROUND PRESSURE</th>
<th>LOAD CAPACITY</th>
<th>OPTION WEIGHTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNLADEN (kg)</td>
<td>LADEN (3 lb. shingle)</td>
<td>BODY m3 (yd³)</td>
<td>kg (lb)</td>
</tr>
<tr>
<td>Front</td>
<td>8,740 (19.268)</td>
<td>800/45 R 30.5</td>
<td>9 (0.11)</td>
</tr>
<tr>
<td>Middle</td>
<td>4,016 (8.854)</td>
<td>72 (10)</td>
<td>11 (1.45)</td>
</tr>
<tr>
<td>Rear</td>
<td>3,737 (8.293)</td>
<td>93 (12)</td>
<td>13.5 (1.73)</td>
</tr>
<tr>
<td>Total</td>
<td>16,493 (36.561)</td>
<td>93 (12)</td>
<td>11.5 (1.5)</td>
</tr>
</tbody>
</table>

**CAB**
- ROPS/FOPS certified 71 DBA
- Internal sound level measured at 60 dB A

**AdBlue**
- 195 liters (52 US gal)

**Power**
- 480 Nm (353 lb ft) @ 1,610 kW (216 hp) @ 2,200 rpm
- Net Power: 170 kW (228 hp) @ 2,200 rpm
- Gross Power: 195 kW (264 hp) @ 2,200 rpm

**Configuration**
- OM934LA / 4R 1000

**Axles**
- Manufacturer: Bell
- Model: 15T
- Differential: High input limited slip differential.

**Engine Brake®**
- Jacobs Engine Brake®

**Auxiliary Brake**
- 5.1 liters (311 cu.in)
- Displacement

**DUMPING SYSTEM**
- Two double-acting, single-acting, emergency steering pump.

**STREET LIGHTING**

**Retardation**
1. Determine retardation force required by finding intersection of vehicle mass and grade line.
2. From this intersection, move straight right across charts until line intersects imputed curve.
3. Read down from this point to determine maximum speed.
B20E Low Ground Pressure Articulated Dump Truck

**Engine**
- **Manufacturer:** Mercedes Benz (MTU)
- **Model:** OM934LA / 4R 1000
- **Configuration:** V8, turbocharged and intercooled.
- **Gross Power:** 170 kW (228 hp) @ 2,200 rpm
- **Gross Torque:** 900 Nm (664 lbf-ft) @ 1,200 - 1,400 rpm
- **Displacement:** 5.1 liters (311 cu.in)
- **Gear Layout:** Remote mounted
- **Transmission:** Engine mounted
- **Model:** OM934LA / 4R 1000

**Auxiliary Brake**
- **Type:** Constant meshing planetary
- **Configuration:** 3200PR ORS

**Transmission**
- **Manufacturer:** Allison
- **Model:** 3000PR CRS
- **Configuration:** Fully automatic planetary transmission with optional retarder
- **Shell:** 6-speed, Forward 1, Reverse 1

**Suspension**
- **Front Axle:** Semi-independent, leading laminated rubber suspension
- **Rear Axle:** Semi-independent, trailing laminated rubber suspension

**Hydraulic System**
- **Type:** Full load sensing system
- **Pump:** Variable displacement load sensing piston
- **Flow:** 155 l/min (4,916 l/min)
- **Pressure:** 27 MPa (3,914 psi)
- **Filter:** 3 microns

**Steering System**
- **Type:** Double acting cylinders, with ground driven emergency steering pump
- **Lock to lock turns:** 4.32
- **Steering Angle:** 45°

**Dimensions**
- **Width:** 2.75 m (9 ft)
- **Alternating Roll:** 28 VDA

**Electrical System**
- **Voltage:** 24 V
- **Battery Capacity:** Two AGM (Absorption Glass Mat) type
- **Battery Type:** Voltage: 24 V
- **Battery Capacity:** Two AGM (Absorption Glass Mat) type

**Grade Ability/Rimpull**
1. Determine tractive resistance by finding intersection of vehicle and grade line. **NOTE: 2% typical rolling resistance is already assumed in chart and grade line.**
2. From this intersection, move straight right across chart until line intersects impull curve.
3. Read down from this point to determine maximum speed obtained at that tractive resistance.

**Retardation**
1. Determine retardation force required by finding intersection of vehicle and grade line. **NOTE: 2% typical rolling resistance is already assumed in chart.**
2. Read down from this point to determine maximum speed.

---

## Load Capacity & Ground Pressure

**Operating Weights**
- **UNLADEN kg (lb):** 34,493 (76,044)
- **LADEN (3" sinkage) kg (lb):** 76,044 (167,044)

**Ground Pressure**
- **Gross Pressure:** 14.7 psi (100 kPa)

**Road Load Calculations**

<table>
<thead>
<tr>
<th>OPERATING WEIGHTS</th>
<th>GROUND PRESSURE</th>
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<th>OPTION WEIGHTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNLADEN kg (lb)</td>
<td>UNLADEN kg (lb)</td>
<td>LADEN (3&quot; sinkage) kg (lb)</td>
<td></td>
</tr>
<tr>
<td>Front</td>
<td>8,740 (19,268)</td>
<td>800/45 R 30.5 kPa (Psi)</td>
<td>Struck Capacity 9.11</td>
</tr>
<tr>
<td>Middle</td>
<td>4,016 (8,854)</td>
<td>72 (10)</td>
<td>SAE 1 Class Capacity 11 (14.5)</td>
</tr>
<tr>
<td>Rear</td>
<td>3,737 (8,329)</td>
<td>93 (14)</td>
<td>SAE 3 Class Capacity 13.5 (17.3)</td>
</tr>
<tr>
<td>Total</td>
<td>16,493 (36,361)</td>
<td>93 (14)</td>
<td>SAE 21 Class Capacity with Tailgate 11.5 (15)</td>
</tr>
</tbody>
</table>

**LADEN (No sinkage) kg (lb):**
- **Front:** 10,540 (23,237) kPa (Psi)
- **Middle:** 12,006 (26,469) kPa (Psi)
- **Rear:** 11,947 (26,338) kPa (Psi)
- **Total:** 34,493 (76,044) kPa (Psi)

**Rated Payload:** 18,000 kg (39,683 lbs)

---

**Emissions Regulaions**
- **Certification:** UNLADEN kg (lb)

**Operating Weights**
- **UNLADEN kg (lb):** 34,493 (76,044)
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**Operating Weights**
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<td>3,737 (8,329)</td>
<td>93 (14)</td>
<td>SAE 3 Class Capacity 13.5 (17.3)</td>
</tr>
<tr>
<td>Total</td>
<td>16,493 (36,361)</td>
<td>93 (14)</td>
<td>SAE 21 Class Capacity with Tailgate 11.5 (15)</td>
</tr>
</tbody>
</table>

**LADEN (No sinkage) kg (lb):**
- **Front:** 10,540 (23,237) kPa (Psi)
- **Middle:** 12,006 (26,469) kPa (Psi)
- **Rear:** 11,947 (26,338) kPa (Psi)
- **Total:** 34,493 (76,044) kPa (Psi)

**Rated Payload:** 18,000 kg (39,683 lbs)
### Features and Options

#### CAB
- 12-volt power outlet
- Cab utility bin (removable)
- Cup holder
- Cooled/heated lunch box
- Electric adjustable and heated mirrors
- Deluxe 10” color LCD: Speedometer / Fuel gauge / Transmission oil temperature gauge / Engine coolant temperature gauge / LED function/warning indicators and audible alarm / Transmission gear selection / Tachometer / Battery voltage / Hour meter / Odometer / Fuel consumption / Tip counter / Tip timer / Tip distance / Metric/English units / Service codes/diagnostics.
- Backlit sealed switch module functions with: Wiper control / Lights / Heated mirrors / Refraining aggressiveness / Transfer case differential lock / Transmission gear hold / Dump-body tip limit / Automatic dump-body tip settings / Airconditioner/Heater controls / Preselected Speed Control.

#### DUMP BODY
- Dump-body mechanical lock - fully up
- Dump-body mechanical lock - partially up
- Tailgate
- Body heater
- Less dump body and cylinders

#### ENGINE
- Jacobs Engine Brake®
- Dual element air cleaner with dust ejector valve
- Pre-cleaner with automatic dust scavenging
- Water separator
- Serpentine drive belt with automatic tensioner
- Provision for fast fill

#### COOLING
- Crankshaft mounted electronically controlled viscous fan drive
- Fan guard

#### ELECTRICAL SYSTEM
- Battery disconnect
- Drive lights
- Air horn
- Pressure alarm
- White noise reverse alarm
- Rotating beacon
- Rear flashing lights
- Pitch roll sensor
- LED reverse lights
- LED artic reverse lights
- Halogen artic reverse lights

#### PNEUMATIC SYSTEM
- Engine-mounted compressor
- Air drier with heater
- Integral unloader valve

#### STEERING SYSTEM
- Bi-directional ground-driven secondary steering pump

#### OTHER
- Automation Traction Control (ATC)
- Wet disc brakes
- 800/45 R 30.5 Low Ground Pressure tires
- 20.5 R 25 Radial Earthmover tires
- Remote grease banks
- Automatic greasing
- Onboard weighing
- Load lights: stacks
- Reverse camera
- Hand rails
- Cab peak
- High pressure hydraulic filter
- Fuel heater
- Belly cover
- Cross member cover
- Remote transmission filters
- Fleetm@tic® Classic Package for 5 years
- Window smash button
- Electronic hood opening

The compilation of standard and optional equipment may vary by market region. Please check with your local distributor.

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**B20E**

**Low Ground Pressure | Mk 3**

**6x6**

**Articulated Dump Trucks**

**Tier 4f Certified**

- Gross Power: 170 kW (228 hp)
- Heaped Capacity: 11 m³ (14.5 yd³)
- Rated Payload: 18,000 kg (39,683 lbs)
- Operating Weight: 34,493 kg (76,044 lbs)