Suspension

Conventional suspension for front and rear wheels, cylinders are pneumohydraulic (nitrogen and oil) with in-built hydraulic damper, two cylinders both on the front axle and on the rear axle.

<table>
<thead>
<tr>
<th>Cylinder piston stroke, mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>- front</td>
</tr>
<tr>
<td>320</td>
</tr>
<tr>
<td>- rear</td>
</tr>
<tr>
<td>290</td>
</tr>
</tbody>
</table>

Steering

Hydrostatic
Steerable front wheels.
Steerable wheels rotation angle, degrees 39
Turning radius, m 15
Overall turning diameter, m 34
Complies with ISO 5010 requirements.

Hydraulic system

Combined hydraulic system for body hoist, steering and brake system. Body hoist cylinders are telescopic with three stages and one stage of double action. Oil pump is of double-section axial-piston and variable-flow type.

<table>
<thead>
<tr>
<th>Body raising time, s</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
</tr>
<tr>
<td>Bodylowering time, s</td>
</tr>
<tr>
<td>33</td>
</tr>
<tr>
<td>Max pressure in hydraulic system, MPa</td>
</tr>
<tr>
<td>18</td>
</tr>
<tr>
<td>Max delivery of pumps @ 1900 rpm, dm³/min</td>
</tr>
<tr>
<td>698</td>
</tr>
<tr>
<td>Filtering degree, µm</td>
</tr>
<tr>
<td>10</td>
</tr>
</tbody>
</table>

Cab

Two-seat, two-door, with an additional seat for the passenger and pneumatically cushioned adjustable operator’s seat. The cab meets the requirements of EN 474-1 and EN 474-6 for permissible limits of internal sound levels, vibration, concentration of poisonous substances and dust. Operator’s workplace complies with ROPS safety system requirements. Noise level inside the cab is not more than 80 dB(A).
Bucket type body is a welded structure with FOPS, has a protective canopy and is heated by exhaust gases. It is equipped with a device for mechanical locking in raised position as well as with rock-deflectors and rock-ejectors.

**Body**

- **Weight**
  - Maximum payload capacity of the dump truck, kg: 240000
  - Empty weight, kg: 161500
  - Gross weight, kg: 401500
  - Weight distribution on axles, %:
    - Empty
      - Front axle: 45
      - Rear axle: 55
    - Loaded
      - Front axle: 33
      - Rear axle: 67

**Frame**

Frame is a welded structure of high-strength low-alloyed steel. Longitudinal box-section variable height side rails are interconnected by cross-members. Castings are applied in highload zones.

**Braking system**

The braking system meets international safety requirements according to ISO 3450 and comprises service, parking, auxiliary and emergency brakes.

- **Service brake**
  - Front wheels – dry disk brakes with automatic clearance adjustment.
  - Rear wheels – dry disk brakes with automatic clearance adjustment. The disks are mounted on the shafts of traction electric motors.

- **Parking brake**
  - Constantly closed brake gears for rear wheels. Spring actuation, hydraulic control.

- **Auxiliary brake**
  - Electrodynamic braking with traction electric motors in alternator mode with forced air cooling of brake resistors.

- **Emergency brake**
  - Parking brake and intact circuit of service brake are used.

**Special equipment**

- Fire-fighting system with remote control (standard)
- Engine liquid preheater (standard, except for tropical modification of dump trucks)
- Video surveillance system (standard)
- Automatic centralized lubrication system (standard)
- Telemetering tire inflation control system (standard)
- Loading and fuel control system (standard)
- High-voltageline proximity alarm (option)
- Heater and conditioner unit (standard)
- Fettling of the bottom body (option)
- Enhanced combined fire-fighting system with automatic actuation (option)

**Traction and braking performance**

**Refill capacities, l**

- Fuel tank: 2900
- Engine cooling system: 600
- Engine lubrication system: 225
- Hydraulic system: 790
- Motor-wheel reduction gear units: 210 (105x2)
- Suspension cylinders: 96.6 (48.3x2)
- Brake resistors: 17EM155
- Power dissipation, kW: 3000

**Overall dimensions, mm**

### Body

- **Struck:**
  - Bucket type body: 102.4
  - Body volume, m³: 141.1

### Frame

- **Operational weight:**
  - Gross weight, kg: 401500

- **Traction performance**
  - Traction on wheels, kg x 1000
  - Braking force on wheels, kg x 1000

- **Total resistance (grade + rolling), %:**
  - Grade: 2.5
  - Rolling: 3.0

- **Speed, km/h**
  - Up to the tip of raised body: 50

- **Weight distribution on axles, %:**
  - Empty:
    - Front axle: 45
    - Rear axle: 55
  - Loaded:
    - Front axle: 33
    - Rear axle: 67

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**Tires**

- Pneumatic, tubeless, with quarry tread pattern.
- Designation: 40.00R57; 46/90R57
- Internal pressure, MPa — in accordance with tire manufacturer instructions.
- Rim designation: 32.00-57/6.0