MINETRUCK MT436B

Underground articulated truck with 32.6-metric tonne load capacity
MINETRUCK MT436B
RELIABLE UNDERGROUND HAULAGE

THE MINETRUCK MT436B IS AN ARTICULATED UNDERGROUND TRUCK WITH A 32.6-METRIC TONNES LOAD CAPACITY FOR MEDIUM TO LARGE MINING AND CONSTRUCTION OPERATIONS.

MAIN BENEFITS

Safety first: The Minetruck MT436B has many built-in safety features such as ISO ROPS and FOPS-approved driver’s compartment, SAHR brakes, articulation safety lock, dump box safety support stand, rear camera and audio-visual reverse alarm.

Maximum productivity: The easy to operate Minetruck MT436B is built with well-tested, reliable systems and components that have been continually refined through years of real work experience. This dependable, ever-ready truck gets the job done every day, every shift, every hour to maximize your productivity.

Ergonomic work environment: The comfortable driver’s compartment is ergonomically designed with controls and gauges within easy reach. The Minetruck MT436B’s design facilitates fast and efficient preventative maintenance and service.
The optional cabin places the truck driver in a comfortable, spring suspended forward seated seat within a pleasant, pressure-controlled work environment.

The optional air conditioning system available for the cabin provides cool air when desired. The system is contained within a sturdy, easily accessible box for trouble-free maintenance.

The Minetruck MT436B can be equipped with a Teletram dump box, which pushes material off horizontally so it can be released in lowered areas with a low back height.
FEATURES

Safety
- ISO ROPS and FOPS-approved canopy with back protection
- SAHR brake system with durable components for reliability and cost efficiency
- Rear camera and monitor for driver assistance and increased safety
- Box up stand and articulation lock for safe work on the machine

Comfort
- Ergonomically designed operators compartment with focus on safety and reduced operator fatigue
- Minetruck MT436B is available in both forward seated and side seated configuration to suit your needs

Sustainability
- Engine exhaust brake to reduce braking heat and extend brake longevity
- Electric transmission shift control for convenient shifting
- Converter lockup for more efficient energy transfer, less heat and longer component life
- Durable articulated hinge that adjusts automatically with heavy-duty, tapered roller bearings to absorb stress
- High-intensity LED lights for great visibility and long life

Productivity
- 32.6 metric tonne capacity
- Articulated steering results in great manoeuvrability
- Proven power train components for reliable productivity, low running cost and a longer life

Serviceability
- Filters and service points are easy to reach
- Centralized manual lubrication for easier maintenance

SPECIFICATIONS

Capacities
- Tramming capacity: 32 650 kg
- Motion times:
  - Dumping: 14 sec

Weights
- Approximate weight: 30 600 kg
- Axle load, front end: 20 500 kg
- Axle load, rear end: 10 100 kg

ENGINE

Standard
- Brand/model: Detroit Diesel DD560, EPA Tier 2
- Power rating: 298 kW / 400 hp @ 2 100 rpm
- Maximum torque: 1 898 Nm @ 1 350 rpm
- MSHA Part 7 ventilation rate: 793 m³/min
- MSHA Part 7 particulate index: 241 m³/min

Optional
- Brand/model: Cummins QSM11 EPA Tier 3
- Power rating: 298 kW / 400 hp @ 2100 rpm
- Maximum torque: 1 898 Nm @ 1 350 rpm
- MSHA Part 7 ventilation rate: 396 m³/min
- MSHA Part 7 particulate index: 311 m³/min

Equipped with dry type air cleaner, catalytic exhaust purifier and silencer, exhaust heat protection, remote engine engine oil and cooling fluid drain, cooling package with V-core tube type radiator.

FUEL

- Fuel tank capacity: 439 litres
- Fuel filtration, primary, including water trap: 8 μm
- Fuel filtration, secondary: 3 μm

AXELS

- Brand/model: Okubo Rock Tough 508
- Degree of front axle oscillation: 18° (9° on each side)
- Differentials: Front, Open
- Differentials: Rear, Open

BRAKES

- Fully enclosed, force-cooled, multiple wet discs at each wheel end
- Service/parking/emergency brakes: SAHR
- Engine exhaust brake
- Brake apply after 3 sec in neutral

TYRES

- Tubeless tyres design for underground mine service*
- Tyre size front and rear: 26.5 x 25 (treaded)

*As applications and conditions vary, Atlas Copco recommends that the user consults with tyre suppliers to obtain the optimum tyre selection

ELECTRICAL SYSTEM

- System voltage: start & accessories 24 V
- Mine duty high output alternator: 140 Amps
- Isolation switch lockout
- 24/12V converter
- Driving lights LED: 10 x 40 W
- Tail and brake lights
- Load lights
- Side light - opposite operator
- Front and rear red lights
- Detachable service light (required for CE Approval Vehicles)
- Amber strobe light - power on
OPERATOR’S COMPARTMENT
- Side seated canopy for bi-directional operation (ISO ROPS and FOPS)
- Front seated cabin with steering wheel (ISO ROPS and FOPS)
- Side seated canopy for bi-directional operation with steering wheel (ISO ROPS and FOPS)
- Side seated cabin for bi-directional operation (ISO ROPS and FOPS)
- Open door retainer
- Spring seat suspension seat with 2-point retractable seat belt
- Sliding window on door
- Air condition system
- Heater
- Sound level in cabin according to ISO 6396 Lpa 85dB (A)
- External sound level according to ISO 6395 LwA 123 dB(A)
- Sound level in canopy according to ISO 6396 LpA 104 dB(A)
- Whole body vibration value A(8)w in range of 0.5 to 2m/s² (typical value for similar machines)

HYDRAULIC SYSTEM
- Heavy duty gear type pumps
- System pressure: 15.8 MPa
- Hydraulic tank capacity 238 litres
- Filtration, return line: 4 μm
- Electric pump for hydraulic tank fill, 24 V
- Manual pump for hydraulic tank fill
- Chrome plated stems on cylinders

TRANSMISSION
- Full power shift, 4 speed forward/reverse
- Brand/model: Dana 6000 series

CONVERTER
- Converter, single stage with lock-up
- Brand/model: Dana CL-8000 series

PARTS AND SERVICES
- Preventive maintenance kits
- Repair and rebuild kits
- Upgrade kits
- Shop mechanics tool set
- Telematics (Certiq)

CONTROL SYSTEM
- Rear camera and monitor
- Audio-visual reverse alarm
- Speedometer
- Blockout 3rd and/or 4th gears
- Joystick controls for steering and dump control for side seated bi directional operation
- Certiq - telematics system

SYSTEM
- Annual manually activated fire suppression system with engine shut down
- Hand held fire extinguishes
- Emergency steering
- Load weighing
- Wiggins fast fuel fill
- Wiggins fast fill for engine oil

MAIN FRAME
- Lock on articulation and raised dump box
- Optional box sizes and tailgate configuration
- Teletram dump box
- Teletram dump box (ejector style)
- Wheel chocks and brackets
- Knockdown construction
- Central manual lubrication system
- Central automatic lubrication system

POWER UNIT
- Arctic oil
- Block heater (240 V)
- Corrosion resistant radiator

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We offer several levels of service agreements to meet the requirements of your operation and safeguard your productivity. Our service agreements help you build a quality operation focused on proactive, planned maintenance to minimize unplanned downtime. We support maintenance with detailed parts information on every item in our full inventory of components, accessories, and tools.
<table>
<thead>
<tr>
<th>Grade Performance*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard configuration, box empty</td>
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<tr>
<td>%</td>
</tr>
<tr>
<td>Ratio</td>
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<tr>
<td>km/h</td>
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<td>Standard configuration, box loaded</td>
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<td>Ratio</td>
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*These are theoretical calculations and should be seen as a reference only. 3% rolling resistance assumed. Actual performance may vary depending on the application. Continuous operation is recommended on maximum 1:7 grade.
### Technical Specifications

#### Measurements and Weights

**Dimensions**
- Turning angle $\pm 42.5^\circ$
- Turning radius left and right are symmetrical
- Dimensions shown are based on standard vehicle configuration, with a loaded box with 25 mm tyre deflection
- All dimensions are shown in millimetres

#### Dump and Teletram Boxes

<table>
<thead>
<tr>
<th></th>
<th>Dump boxes</th>
<th>STD</th>
<th>Teletram boxes*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume, SAE heaped [m$^3$]</td>
<td>20</td>
<td>18</td>
<td>16</td>
</tr>
<tr>
<td>Volume, Semi-heaped [m$^3$]</td>
<td>18.5</td>
<td>15.5</td>
<td>14</td>
</tr>
<tr>
<td>Volume, SEA struck [m$^3$]</td>
<td>16.5</td>
<td>13.5</td>
<td>12</td>
</tr>
<tr>
<td>Maximum material density (t/m$^3$)</td>
<td>1.6</td>
<td>1.8</td>
<td>2</td>
</tr>
<tr>
<td>Dump position: Box height, max (mm)</td>
<td>H1</td>
<td>5.445</td>
<td>5.310</td>
</tr>
<tr>
<td>Load position: Height side board / (TT Push plate) (mm)</td>
<td>H2</td>
<td>2.520</td>
<td>2.360</td>
</tr>
<tr>
<td>Height rear end / (TT Tailgate)</td>
<td>H3</td>
<td>1.900</td>
<td>1.900</td>
</tr>
<tr>
<td>Dump position: Clearance (mm)</td>
<td>H4</td>
<td>240</td>
<td>240</td>
</tr>
<tr>
<td>Box width</td>
<td>3.050</td>
<td>3.050</td>
<td>3.050</td>
</tr>
</tbody>
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*Teletram box has reduced capacity, different dimensions affecting turning radius etc. More sizes can be available, please consult Atlas Copco for more information.
COMMITTED TO SUSTAINABLE PRODUCTIVITY

We stand by our responsibilities towards our customers, towards the environment and the people around us. We make performance stand the test of time. This is what we call – Sustainable Productivity.

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