

# Minetruck MT436LP

Underground truck with 32.6-tonne load capacity



# Reliable underground haulage for low seam operations

Minetruck MT436LP is an underground truck with a 32.6-metric tonne load capacity. It has been designed to work in low seam mining applications where the back height can get down to 2.8 m.

## ⊕ Main benefits

**Safety first** Minetruck MT436LP is an articulated underground truck, designed with workers wellbeing as a primary concern

**Ergonomically designed** for fast and efficient preventive maintenance and service and a cabin which allows the operator to work safe and comfortable

**Maximum productivity** thanks to the well-tested, reliable systems and components which has been continually refined on the easy to operate Minetruck MT436LP



The front seated canopy places the operator in a comfortable, spring suspended seat with controls easy to reach and read.

Dump box adapted for low seam mining with a lower and slightly wider design.

Minetruck MT436LP is equipped with a powerful and reliable engine installation with Jacob's brake.



## Features

### Safety

- ISO ROPS and FOPS certified front seated canopy
- SAHR brake system with durable components for reliability and cost efficiency
- Rear, and right hand side camera and monitor for driver assistance
- Box up stand and articulation lock for safe work on the machine

### Comfort

- Low profile adapted front seated canopy with focus on safety and reduced operator fatigue

### Sustainability

- Engine compression 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 maneuverability
- 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 (standard empty vehicle)* |           |
| Approximate weight                | 30 600 kg |
| Axle load, front end              | 20 500 kg |
| Axle load, rear end               | 10 100 kg |

## Engine

|                               | Standard                 |
|-------------------------------|--------------------------|
| 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 m <sup>3</sup> /min  |
| MSHA Part 7 particulate index | 311 m <sup>3</sup> /min  |

**Tier III/EU Stage IIIA:** Dry type air filter, catalytic purifier and silencer, exhaust heat protection, cooling package with tube type radiator, remote engine oil and cooling fuel drain.

## Fuel

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

## Axles

|   |   |
|---|---|
| Brand/model: Okubo Rock Tough 508                       | ● |
| Degree of front axle oscillation: 18° (9° on each side) | ● |
| Differentials: front open                               | ● |
| Differentials: rear open                                | ● |

## Tires

|  |   |
|--|---|
| Tubeless tires design for underground mine service | ● |
| Tire size front and rear: 26.5R25                  | ● |

\*As applications and conditions vary; Epiroc recommends that the user consults with tire suppliers to obtain the optimum tire selection.

## Electrical system

|  |   |
|--|---|
| System voltage: start and accessories 24 V                   | ● |
| Mine duty high output alternator: 140 Amps                   | ● |
| Isolation switch lockout                                     | ● |
| 24/12 V converter  | ● |
| Driving lights LED: 10x40 W                                  | ● |
| Tail and brake lights  | ● |
| Load lights, mounted on back of canopy                       | ○ |
| Side light - opposite operator                               | ● |
| Front and rear red lights                                    | ○ |
| Detachable service light (required for CE approved vehicles) | ○ |
| Amber strobe light - power on                                | ○ |



## Operator's compartment

|   |   |
|---|---|
| Forward seated canopy with steering wheel (ISO ROPS and FOPS)   | ● |
| Open door retainer  | ● |
| Spring seat suspension seat with 2-point retractable seat belt  | ● |
| External sound level according to ISO 6395 LwA 123 dB(A)  |   |
| Sound level in canopy according to ISO 6394 LpA 104 dB(A)   |   |
| Whole body vibration value according to EN 14253 A(8)w maximum in range of 0.5 to 2m/s <sup>2</sup> (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     | ● |

## Brakes

|  |   |
|--|---|
| Fully enclosed, force-cooled, multiple wet discs at each wheel end | ● |
| Service/parking/emergency brakes: SAHR                             | ● |
| Engine compression brake   | ● |
| Brake apply after 4 sec in neutral                                 | ○ |
| Electric brake release pump  | ○ |

## Control system

|   |   |
|---|---|
| Rear and right hand side cameras with display in canopy | ● |
| Audio-visual reverse alarm                              | ● |
| Speedometer   | ○ |
| Blockout 3rd and/or 4th gears                           | ○ |
| Certiq - telematics system*                             | ○ |

\*Certain country restriction may exist

## System

|  |   |
|--|---|
| Ansul manually activated fire suppression system with engine shut down | ○ |
| Hand held fire extinguishes  | ○ |
| Wiggins fast fuel fill   | ○ |
| Wiggins fast fill for engine oil                                       | ○ |

## Main frame

|  |   |
|--|---|
| Lock on articulation and raised dump box | ● |
| Optional box sizes                       | ○ |
| 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 | ○ |

## Parts and services

|                             |   |
|-----------------------------|---|
| Preventive maintenance kits | ○ |
| Repair and rebuild kits     | ○ |
| Upgrade kits                | ○ |
| Telematics (Certiq)         | ○ |

## Technical specifications

### Grade performance

Standard configuration, box empty

| %     | Grade    | 0.0  | 2.0  | 4.0  | 6.0  | 8.0  | 10.0 | 12.0 | 14.0 | 16.0 | 18.0 | 20.0 |
|-------|----------|------|------|------|------|------|------|------|------|------|------|------|
| Ratio | Grade    | -    | -    | -    | -    | 1:12 | 1:10 | 1:8  | 1:7  | -    | -    | 1:5  |
| Km/h  | 1st gear | 5.5  | 5.5  | 5.5  | 5.4  | 5.4  | 5.4  | 5.4  | 5.4  | 5.4  | 5.4  | 5.3  |
|       | 2nd gear | 9.8  | 9.7  | 9.7  | 9.7  | 9.6  | 9.6  | 9.5  | 9.5  | 9.4  | 9.4  | 9.3  |
|       | 3rd gear | 17.3 | 17.1 | 17.0 | 16.9 | 16.7 | 16.6 | 16.0 | 14.7 | 13.4 | 12.0 | -    |
|       | 4th gear | 30.7 | 30.2 | 29.8 | 27.4 | 23.8 | -    | -    | -    | -    | -    | -    |

Standard configuration, box loaded

| %     | Grade    | 0.0  | 2.0  | 4.0  | 6.0  | 8.0  | 10.0 | 12.0 | 14.0 | 16.0 | 18.0 | 20.0 |
|-------|----------|------|------|------|------|------|------|------|------|------|------|------|
| Ratio | Grade    | -    | -    | -    | -    | 1:12 | 1:10 | 1:8  | 1:7  | -    | -    | 1:5  |
| Km/h  | 1st gear | 5.5  | 5.4  | 5.4  | 5.4  | 5.3  | 5.3  | 5.3  | 5.3  | 5.2  | 5.2  | 5.0  |
|       | 2nd gear | 9.7  | 9.6  | 9.5  | 9.4  | 9.4  | 9.0  | 8.1  | 7.2  | 6.2  | -    | -    |
|       | 3rd gear | 17.1 | 16.8 | 16.3 | 13.6 | -    | -    | -    | -    | -    | -    | -    |
|       | 4th gear | 30.0 | 24.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    |

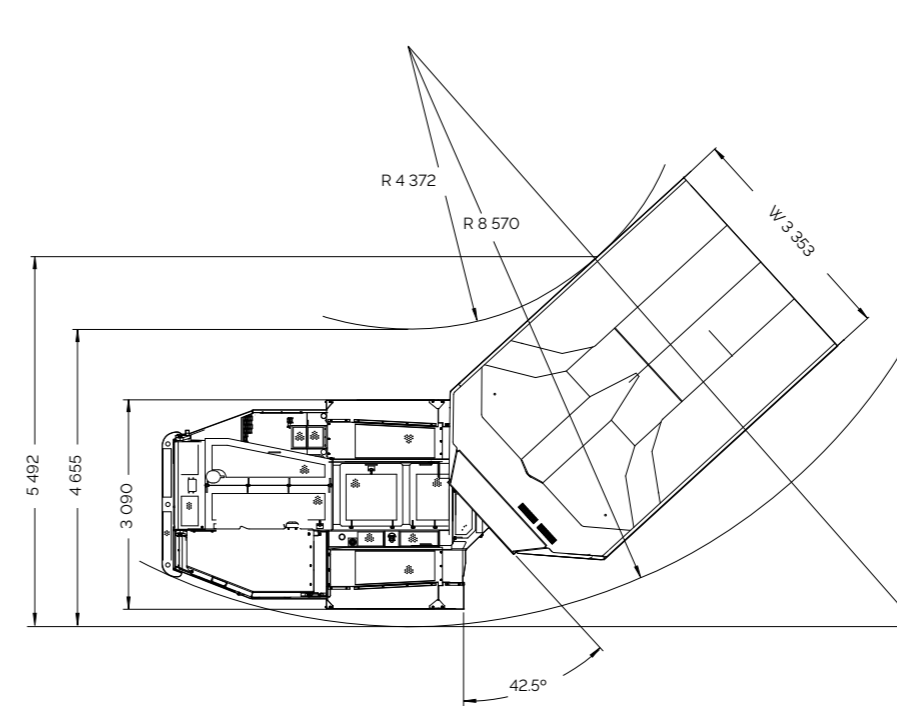
\*These are theoretical calculations and should be seen as a reference only. Lock up engaged and 3% rolling resistance assumed. Actual performance may vary depending on the application. Continuous operation is recommended on maximum 1:7 grade.



## Technical specifications

### Measurements and weights

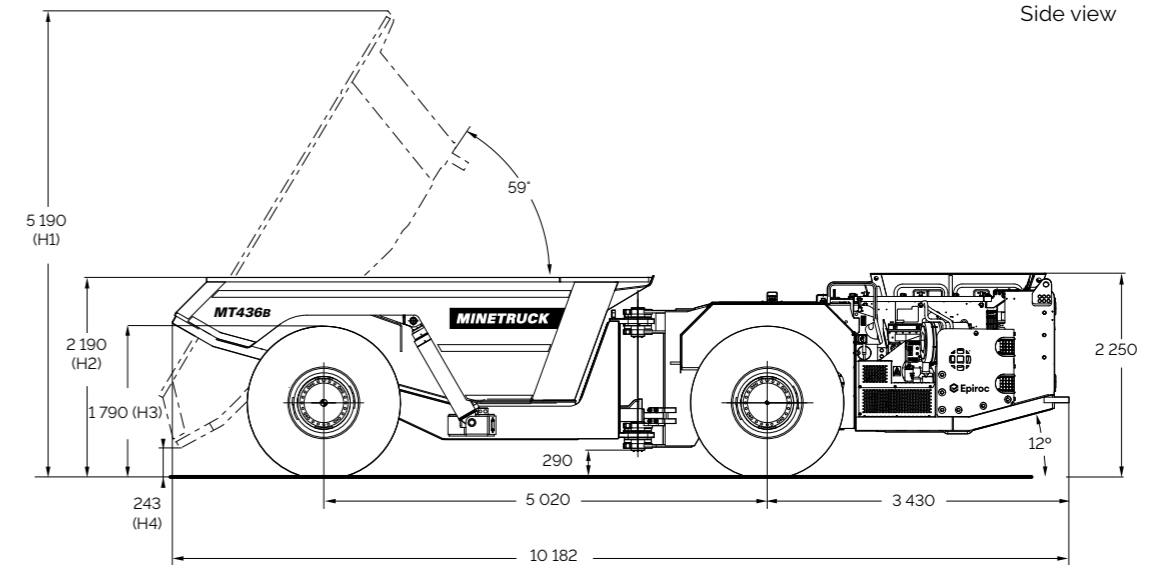
#### Turning radius



#### Dimensions

- All dimensions are shown in millimetres
- All dimensions shown are based on standard vehicle configuration with 25 mm tire deflection, unloaded

#### Side view



### Dump boxes

|  |    | Dump boxes |       | STD   |       |
|--|----|------------|-------|-------|-------|
| Vollume, SAE heaped                          |    | 12.5       | 14.5  | 17    | 18.5  |
| Volume, semi heaped                          |    | 10.5       | 12.5  | 14.8  | 16.8  |
| Vollume, SAE struck                          |    | 8.7        | 10.5  | 12.6  | 14.5  |
| Maximum material density (t/m <sup>3</sup> ) |    | 2.6        | 2.2   | 2.0   | 1.8   |
| Dump position: box height, max (mm)          | H1 | 5 045      | 5 070 | 5 190 | 5 300 |
| Loading position: height side board (mm)     | H2 | 2 012      | 2 040 | 2 190 | 2 320 |
| Height rear end (mm)                         | H3 | 1 635      | 1 635 | 1 790 | 1 790 |
| Dump position: clearance (mm)                | H4 | 160        | 162   | 242   | 242   |
| Width (mm)                                   | W  | 3 050      | 3 050 | 3 355 | 3 355 |

\*Teletram box has a different functionality, different dimensions affecting turning radius etc., more sizes can be available, please consult Epiroc for more information.



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