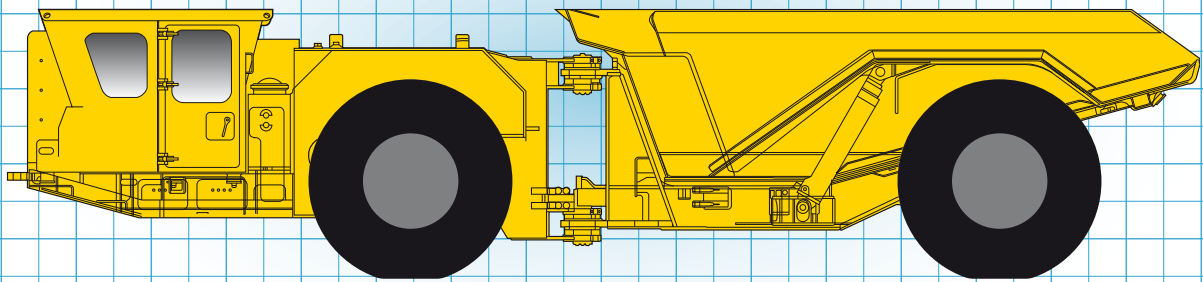


# Minetruck MT436LP

## Technical specification



The Minetruck MT436LP is a 32.6 metric ton capacity low profile underground truck, designed to work in low seam mining applications where the back height can get down to 2.8 m.

## Features

### Operator's compartment

Ergonomically and spacious designed compartment for maximum safety and minimal operator fatigue with:

- ROPS/FOPS canopy with back protection and sound suppression.
- Comfortable operator's seat providing improved ergonomic positioning, body orientation and generous shoulder and hip room.
- Enhanced operator visibility with the use of - forward and rear viewing cameras, each coupled to a canopy mounted monitor and linked to the transmission providing good visibility in both tramping directions.

### Power frame

- Converter lockup offers better power transfer, less heat and longer component life.

- Jacobs engine brake provides increased brake life, automatic engine overspeed protection, and reduced heat from braking.
- Electric transmission shift control for convenient shifting.
- SAHR brake system offers long component life and very reliable braking.

### General

- Long-life tapered roller bearing centre hinge.
- Maximum operating ambient temperature 52°C (125°F).
- Central manual lubrication.
- Hydraulic hoses, electric cables and hot surfaces are well protected.

# Specifications

Capacity		Motion times		Matching vehicles	
Tramming	32 650 kg	<b>Dump box</b>		<b>For Minetruck MT436LP</b>	
		Dumping	14 seconds	Scooptram ST1030LP	

## Engine

- Detroit Diesel engine ..... DDEC IV Series 60
- Power Rating at 2 100 rpm ..... 298 kW/400 hp
- Maximum torque at 1 350 rpm ..... 1 898 Nm
- MSHA Part 7 ventilation rate ..... 793 m<sup>3</sup>/min
- MSHA Part 7 particulate index ..... 241 m<sup>3</sup>/min
- Dry type air cleaner.
- Exhaust heat protection.
- Remote engine oil drain.
- Cooling package with V-core radiator.

## Transmission

- Full Power Shift, 4 Speed Forward/reverse.
- Dana ..... 6000 Series

## Torque Converter

Single stage with lock up.

- Dana ..... CL-8000 Series

## Axles

- Spiral bevel differential, full floating, planetary wheel end drive.
- Rock Tough ..... 508
- Conventional front differential.
- Rear axle, trunnion mounted, self-lubricating bushings.
- Degree of oscillation ..... 18° (9° each side)

## Brakes

Fully enclosed, force cooled, multiple wet discs at each wheel end.

- Service/parking/emergency ..... SAHR

## Tyres

Tubeless, nylon, smooth tread design for underground mine service, on demountable rims

- Dimension ..... 26.5R25\*

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

## Operator's compartment

- Canopy; MSHA-ISO ROPS/FOPS approved.
- Forward facing seat with steering wheel.
- Grammer seat with retractable seat belts.
- Forward and back up camera, with monitor.

## Hydraulic system

- System pressure ..... 15.8 MPa
- Hydraulic tank capacity ..... 238 litres
- Filtration, return line ..... 4.0 µm
- Heavy duty gear type pumps
- Cylinders, double acting, chrome plated stems, diameter:
  - Steer cylinders (2) ..... 152 mm
  - Dump cylinders (2) ..... 228 mm

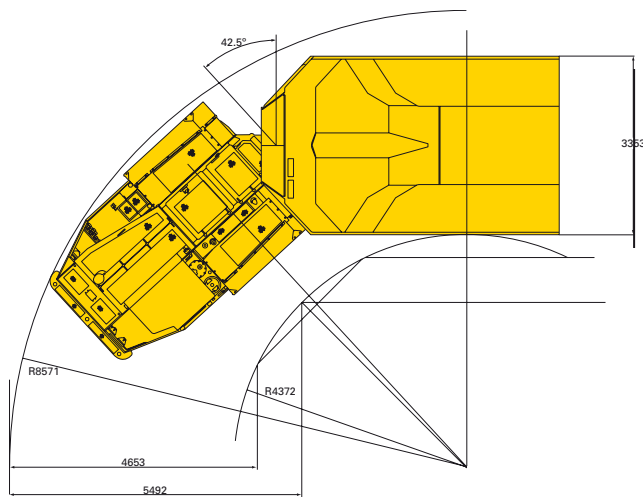
## Electrical system

- Voltage, system start & accessories ..... 24 V
- Alternator, high output ..... 140 A
- Hydraulic warning system ..... level, hyd. temp.
- Hella projection lights.
- Isolation switch lockout.

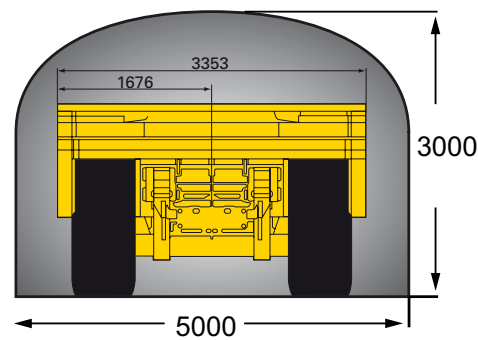
## Fuel

- Fuel tank capacity ..... 439 litres
- Fuel consumption, full load ..... 95 litres/hour
- Fuel filtration ..... 8.0 µm
- Anti-siphon fuel supply.

## Turning radius



## Recommended drift size



Rear view

- Turning angle +/- 42.5°.
- Turning radius left and right are symmetrical.
- Dimensions shown are based on standard vehicle configuration with 25 mm tyre deflection.
- All dimensions are shown in millimetres.

## Grade performance

NB. 3% rolling resistance assumed. Actual performance may vary depending on the application.

### Standard configuration, box empty

Percent grade	0.0	2.0	4.0	6.0	8.3	10.0	12.5	14.3	16.0	18.0	20.0
Ratio					1:12	1:10	1:8	1:7			1:5
1st gear (kph)	4.8	4.7	4.7	4.6	4.5	4.4	4.4	4.3	4.3	4.3	4.2
2nd gear (kph)	8.5	8.2	8.0	7.8	7.7	7.6	7.4	7.3	7.2	7.1	6.9
3rd gear (kph)	14.5	13.9	13.5	13.2	12.7	12.3	11.8	11.3	10.7	9.8	8.9
4th gear (kph)	24.8	23.6	22.2	20.9	18.3	15.6	12.0				

### Standard configuration, box loaded

Percent grade	0.0	2.0	4.0	6.0	8.0	10.0	12.5	14.3	16.0	18.0	20.0
Ratio					1:12	1:10	1:8	1:7			1:5
1st gear (kph)	4.7	4.5	4.4	4.3	4.2	4.2	4.1	4.0	3.9	3.8	3.7
2nd gear (kph)	8.1	7.7	7.5	7.2	6.9	6.7	6.2	5.8	5.2	4.6	4.0
3rd gear (kph)	13.6	12.9	12.0	10.8	8.7	7.1					
4th gear (kph)	22.8	19.4	13.4								

## Optional equipment

### Main frame

- Wheel chocks.

### System

- Ansul dual bottle fire suppression with Engine kill.
- Lincoln auto lube with timer.

### Electrical system

- Amber strobe light - power on.
- Side light.
- Tail and brake lights.

### Controls and instruments

- Blockout 4th gear.
- DDEC - Diagnostic data reader.

### Power unit

- Epoxy coated radiator.

### Documentation

- LinkOne parts catalogue, CD.
- Operator's and maintenance manual - plasticised.

### Parts kit

- 1 000 hour consumables.
- Articulation Repair Kit.

### Other

- Face mechanics tool set.
- Tool box.

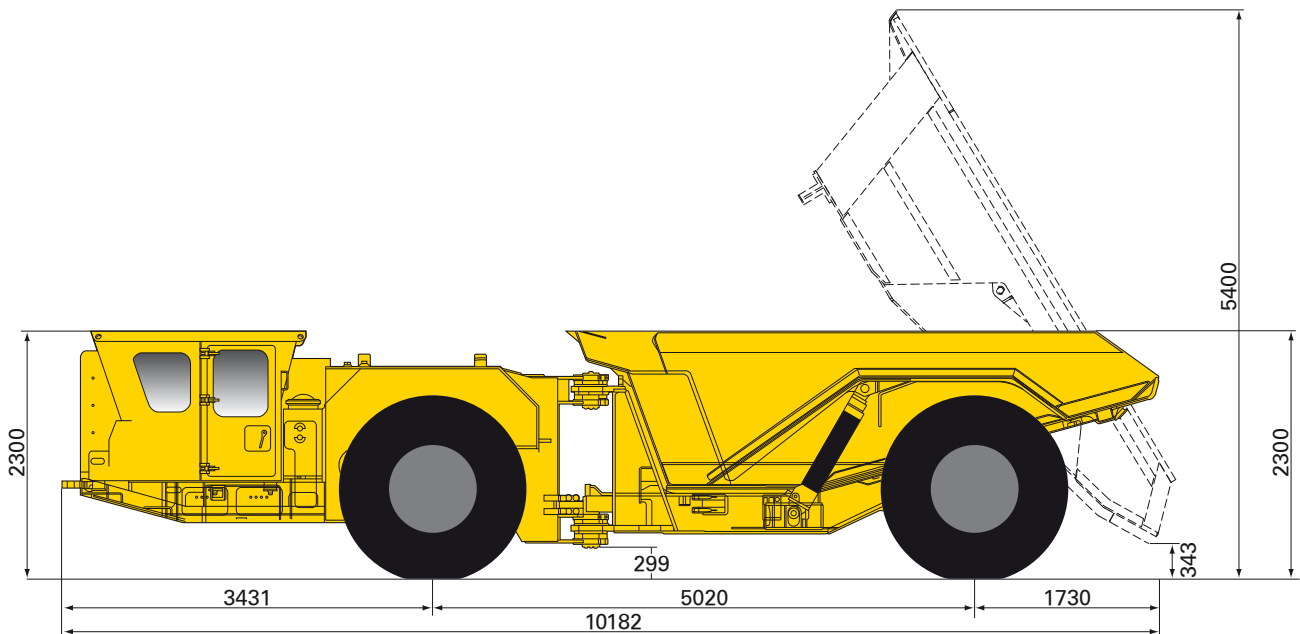
## Dump boxes

Dump box data		STD
Material density (t/m <sup>3</sup> )		2.2
Volume, SEA struck (m <sup>3</sup> )		13.0
Volume, Semi-heaped (m <sup>3</sup> )		14.8
Volume, SAE heaped (m <sup>3</sup> )		16.7
Width, dump box (mm)		3353
Dump position: Box height, max (mm)		5402
Tramming position: Dump box height (mm)		2 300
Dump position: Tailgate clearance (mm)		343

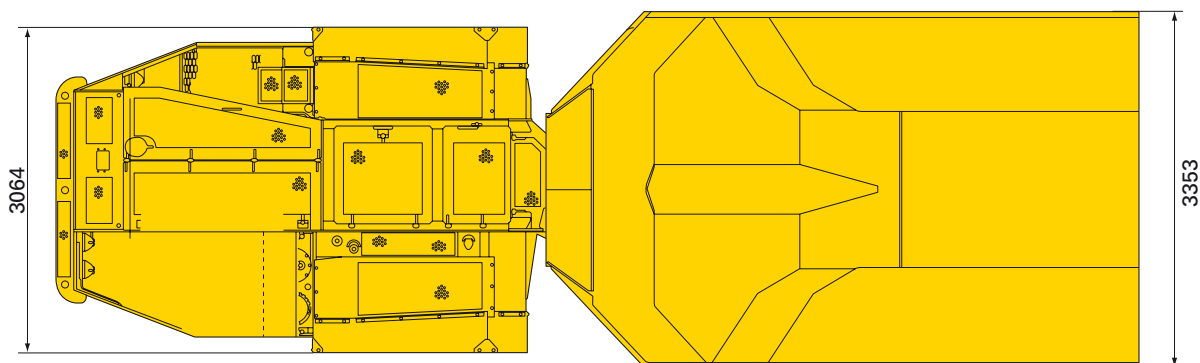
## Dimensions and weights

Approximate gross weight .....30 600 kg  
 Axle load, front end .....20 500 kg  
 Axle load, back end.....10 100 kg

*Standard equipped vehicle with empty box.*



Side view



Top view

- Dimensions shown are based on standard vehicle configuration with 25 mm tyre deflection.
- All dimensions are shown in millimetres.