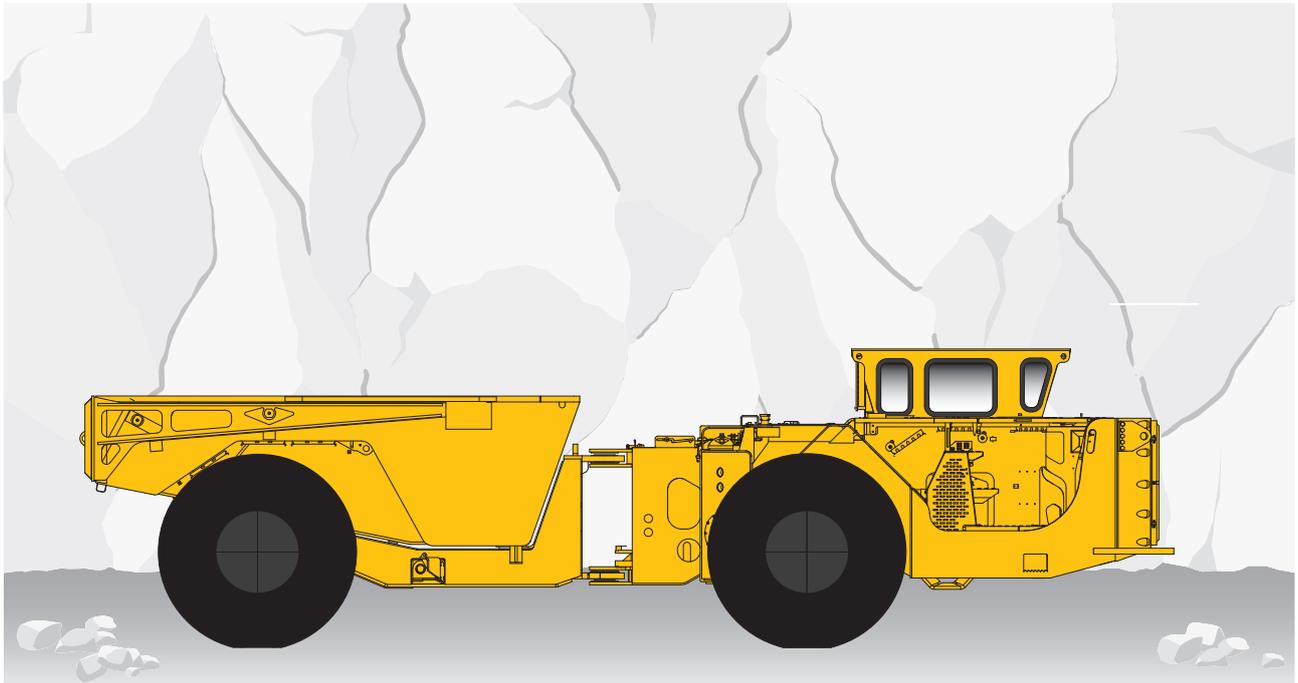


# Minetruck MT2010

## Technical specification



The Minetruck MT2010 is a 20 metric tonne underground truck, designed for small to medium-scale underground operations and high speed development.

## Features

### Dump box

- Optimum box profile for clean and fast dumping
- Box support for safe work under box

### Operator's compartment

- FOPS/ROPS approved canopy with back protection
- 3 point mounting access for entry and exit from operator's compartment
- Optional back up camera and monitor for maximum safety and operator assistance
- Optional spacious and ergonomically designed compartment for maximum safety and minimal operator fatigue with:
  - Forward seated enclosed cabin
  - ISO ROPS/FOPS certified for maximum safety
  - Air conditioning for convenient working conditions

### Power frame

- A high power-to-weight ratio for high ramp haulage performance
- Oversized power train components for long life and low costs

### General

- Great serviceability with centralized service points
- Long-life roller bearing centre hinge
- Anti skid material at service access points
- Central manual lubrication
- Hydraulic hoses, electric cables and hot surfaces are well routed and protected
- SAHR brake system
- CE certified

# Specifications

## CAPACITIES

kg	Tramming capacity	20 000
m <sup>3</sup>	Standard box volume (SAE heaped)	9.0

## MOTION TIMES

sec	Dumping	15
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## WEIGHTS

Standard equipped vehicle (empty weight)		
kg	Approximate weight	20 500
	Front axle load	13 800
	Rear axle load	6 700

### Engine

- Cummins..... QSL9C300, Tier/Stage 3
- Power rating at 2 100 rpm ..... 224 kW/300 hp
- Maximum torque at 1 350 rpm ..... 1 369 Nm
- MSHA Part 7 ventilation rate ..... 368 m<sup>3</sup>/min
- MSHA Part 7 particulate index ..... 396 m<sup>3</sup>/min
- Rock Tough purifier and silencer
- Dry type air cleaner
- Exhaust heat protection
- Cooling package with tube type radiator

### Transmission and converter

- Converter; single stage with automatic lock-up
- Dana..... 5000 Series

### Axles

- Spiral bevel differential, full floating, planetary wheel end drive Rock Tough ..... Model 457
- Conventional front and rear differential
- Degree of oscillation ..... 20° (10° on each side)

### Brakes

- Fully enclosed, force cooled, multiple wet discs at each wheel end
- Service/parking/emergency ..... SAHR

### Tyres

- Tubeless, steel radial, lug tread design for underground mine service
- Dimension ..... 18.00R25

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

## Optional equipment

### Main frame

- Optional box sizes
- Shipping covers
- Wheel chocks
- Tele dump CE certification

### Ergonomics

- Forward facing enclosed cab with wheel control steering
- Low built canopy
- Heater (not for low built)
- Air conditioner, cabin

### System

- Ansul Checkfire, autofire suppression
- Ansul single bottle fire suppression with engine shutdown
- Lincoln auto lube with timer
- Wiggins fast fuel fill
- Back up camera and monitor
- Manual hydraulic tank fill pump

### Drive train

- Neutral break apply

### Electrical system

- Tail and brake lights
- Block heater (120V or 240V)

### Controls and instruments

- Blockout 3<sup>rd</sup> and/or 4<sup>th</sup> gears
- Speedometer

### Power unit

- Corrosion resistant radiator

### Documentation

- LinkOne parts book, CD
- Operator's and maintenance manual - plasticized

### Parts kit

- 1 000 hour consumables

### Other

- Tool box

### Operator's compartment

- Side seated operator for bi-directional operation
- Canopy FOPS/ROPS approved
- Grammer seat with retractable seat belt
- Two pilot operated levers for steering and gear shifting
- External sound level according to ISO 6393 LwA 122 dB(A)
- Sound level in canopy according to ISO 6394 LpA 108 dB(A)
- Sound level in cabin according to ISO 6394 LpA 85 dB(A)
- Whole body vibration value A(8)w in range of 0.5 to 2m/s<sup>2</sup> (typical value for similar machines).

### Hydraulic system

- Filtration type ..... suction
- Heavy duty gear type pumps
- Hydraulic tank capacity ..... 223 litres
- Cylinders, double acting, chrome plated stems, diameter:
  - Steer cylinders (2) ..... 115 mm
  - Dump cylinders (2) ..... 140 mm
- System pressure ..... 15.5 MPa

### Electrical system

- Voltage, system start & accessories ..... 24 V
- Alternator, high output ..... 140 A
- Hydraulic warning system; temperature, level
- LED lights 8 x 40W
- Isolation switch lockout

### Fuel

- Fuel tank capacity ..... 379 litres

### Other

- Central manual lubrication
- Fire extinguisher ..... 2x6 kg
- Fuel gauge in panel

# Grade performance

## STANDARD CONFIGURATION, BOX EMPTY

%	Grade	0.0	2.0	4.0	6.0	8.3	10.0	12.5	14.3	16.0	18.0	20.0
<b>Ratio</b>	<b>Grade</b>	–	–	–	–	<b>1:12</b>	<b>1:10</b>	<b>1:8</b>	<b>1:7</b>	–	–	<b>1:5</b>
<b>km/h</b>	<b>1st gear</b>	4.5	4.5	4.5	4.5	4.5	4.4	4.4	4.4	4.4	4.4	4.4
	<b>2nd gear</b>	8.0	8.0	8.0	8.0	8.0	7.9	7.9	7.9	7.9	7.8	7.8
	<b>3rd gear</b>	14.1	14.1	14.0	13.9	13.8	13.8	13.7	13.6	13.5	13.5	13.1
	<b>4th gear</b>	25.1	24.9	24.7	24.4	24.2	23.4	21.9	19.6			

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

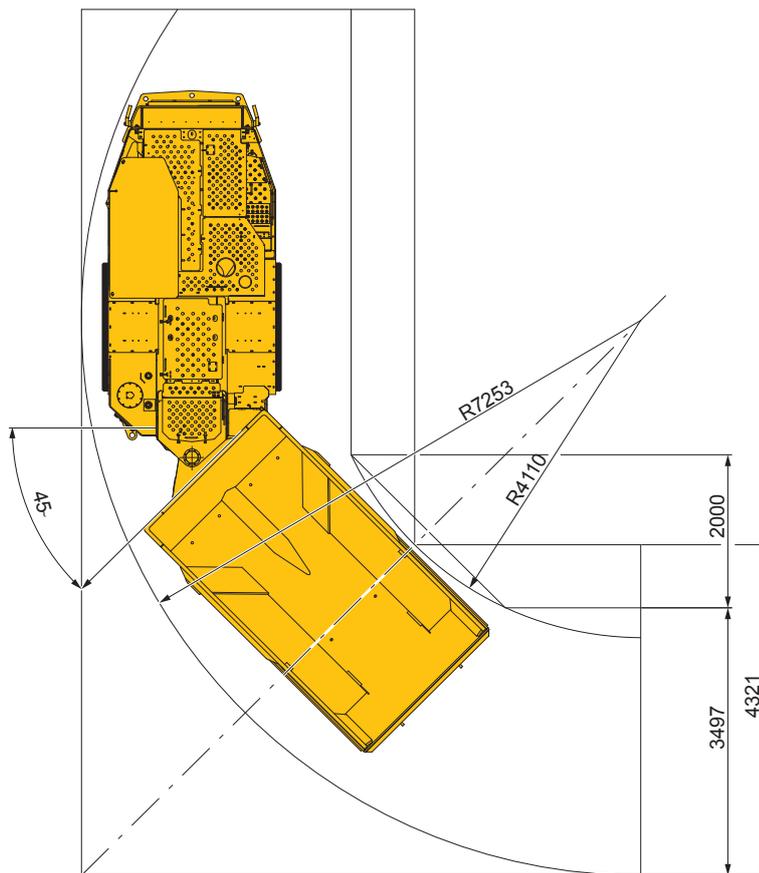
## STANDARD CONFIGURATION, BOX LOADED

%	Grade	0.0	2.0	4.0	6.0	8.3	10.0	12.5	14.3	16.0	18.0	20.0
<b>Ratio</b>	<b>Grade</b>	–	–	–	–	<b>1:12</b>	<b>1:10</b>	<b>1:8</b>	<b>1:7</b>	–	–	<b>1:5</b>
<b>km/h</b>	<b>1st gear</b>	4.5	4.5	4.4	4.4	4.4	4.4	4.4	4.4	4.3	4.3	4.3
	<b>2nd gear</b>	8.0	7.9	7.9	7.8	7.8	7.8	7.7	7.7	7.6	7.3	7.0
	<b>3rd gear</b>	14.0	13.8	13.7	13.5	13.2	12.3	10.9				
	<b>4th gear</b>	24.7	24.2	22.4	17.6							

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

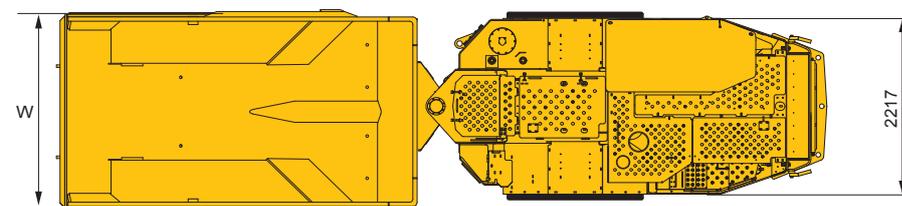
# Measurements

## TURNING RADIUS



### » Dimensions

- All dimensions are shown in millimetres
- All dimensions shown are based on standard vehicle configuration with 27 mm tyre deflection, unloaded



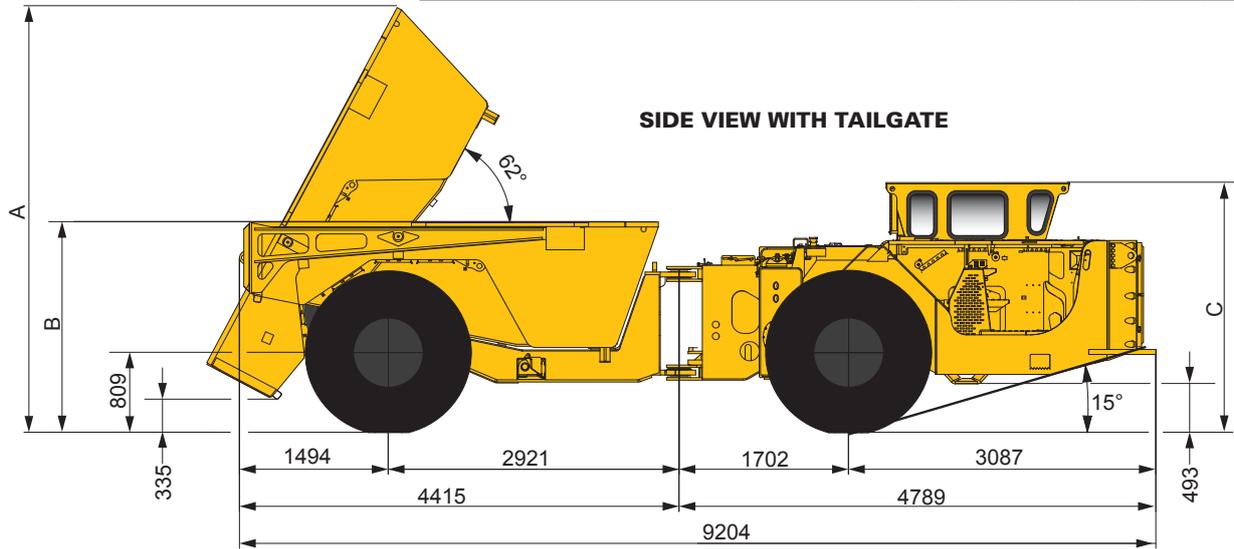
## TOP VIEW BOX WITH TAILGATE

# Measurements and weights

## DUMP BOXES WITH TAILGATE

### STD

<b>Volume, SAE heaped (m3)</b>		<b>11.0</b>	<b>10.0</b>	<b>9.1</b>	<b>8.4</b>
<b>Volume, SAE struck (m3)</b>		9.2	8.0	7.1	6.5
<b>Maximum material density (t/m3)</b>		1.8	2.0	2.2	2.4
Width, dump box (mm)	(W)	2 400	2 400	2 400	2 400
Dump position: box height, max (mm)	(A)	4 445	4 341	4 301	4 199
Tramming position: dump box height (mm)	(B)	2 358	2 230	2 131	2 059



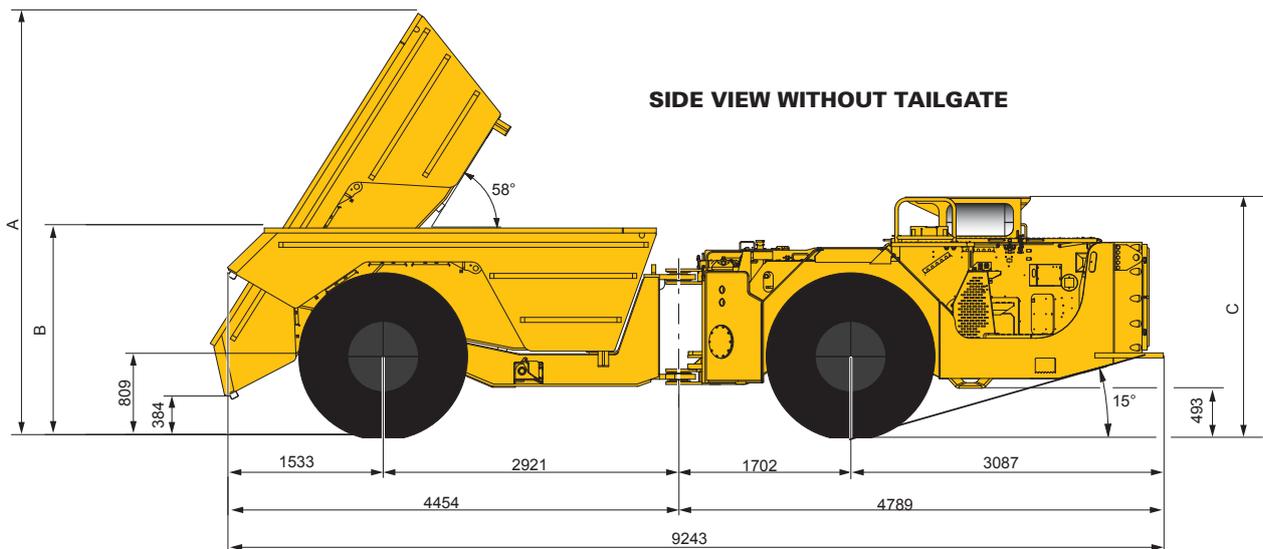
## OPERATORS COMPARTMENT

Height (mm)	C
Cabin	2 530
Canopy standard	2 510
Canopy low profile	2 400

## DUMP BOXES WITHOUT TAILGATE

### STD

<b>Volume, SAE heaped (m3)</b>		<b>11.0</b>	<b>10.0</b>	<b>9.0</b>	<b>8.4</b>	<b>7.7</b>	<b>6.7</b>
<b>Volume, SAE struck (m3)</b>		9.2	8.0	7.0	6.3	5.6	4.6
<b>Maximum material density (t/m3)</b>		1.8	2.0	2.2	2.4	2.6	3.0
Width, dump box (mm)	(W)	2 435	2 435	2 435	2 435	2 435	2 435
Dump position: box height, max (mm)	(A)	4 444	4 330	4 226	4 197	4 097	4 097
Tramming position: dump box height (mm)	(B)	2 351	2 214	2 089	2 054	1 934	1 934



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