

# Minetruck MT2010 Battery

Underground articulated battery driven truck



# Quick and compact

Minetruck MT2010 Battery is a robust built machine for demanding underground applications. The truck has been constructed with zero emission in mind with battery power which leads to lower operational costs.

## Main benefits

**It's clean** when the electric solution eliminates diesel emissions and minimizes the need for ventilation

**It's flexible** thanks to the eliminating of the power cables and since maneuverability is the same as of a diesel

**It's productive** since Minetruck MT2010 Battery is being easy to maneuver, easy to service and easy to maintain

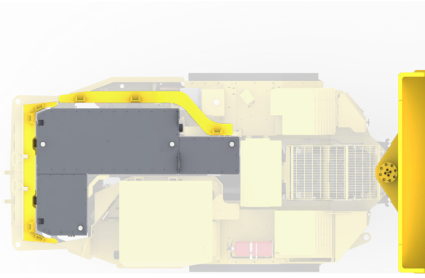
ISO ROPS / FOPS certified side canopy for bi-directional operation

Battery easy to swap or re-energize





Operators compartment with a side-seated canopy for bi-directional operations.



Operational time increases because of quick battery exchange or fast reenergizing.



The high capacity battery will keep the truck hauling longer.

seated  
tions



Dump box designed in high strength steel optimized for the mining environment and 20 tonne capacity, optional tailgate configuration

Articulation-, and raised dump box safety look

Rear camera

SAHR brakes at wheel ends

# Diesel free workhorse

Minetruck MT2010 Battery is based on the Minetruck MT2010, known for carrying loads up the ramp fast and known for being easy to maneuver, easy to service and easy to maintain. It has kept all the strengths of its diesel counterpart and it also share a high degree of components and parts.



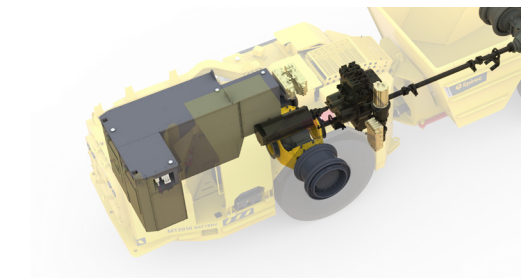
## + The future is electric

We are leading the change towards sustainability in mining through battery electric, zero-emission equipment. The result is a safer and healthier underground working environment. This contributes to a sustainable future and a smaller environmental footprint. It is a power change that changes everything.



## + Safety first

On board diagnostics gives the operator a clear indication of the machine status. For personnel working around the machine, the machine status indication lights displays the status. This means more uptime, increased productivity and lower running costs.



## + Easy maintenance

Easy access to service points makes maintenance easy. High degree of common component as the diesel machine improves the ability of spare parts which both machines can use.



## A comprehensive service offering

Even the best equipment needs to be serviced regularly to make sure it sustains peak performance. An Epiroc service solution offers peace of mind, maximizing availability and performance throughout the lifetime of your equipment. We focus on safety, productivity and reliability.

By combining genuine parts and an Epiroc service from our certified technicians we safeguard your productivity - wherever you are.

# Technical specifications

● = Standard ○ = Option

## Features

### Safety

- ISO FOPS/ROPS point entry and exit
- Spring-applied, hydraulically released breaks (SAHR)
- Box-up stand for safe work under dump box
- Right side view and rear camera and monitor for driver assistance and maximum safety

### Comfort

- Side-seated canopy with back protection

### Sustainability

- Robust power train components for lower maintenance cost
- Long-life roller bearings at centre hinge

### Productivity

- High power-to-weight ration to enable greater speeds on inclines
- Box optimized for quick, clean dumping

### Serviceability

- Easy maintenance with centrally located service point
- Anti-skid materials at service access points

### Operator's compartment

Side seated canopy for bi-directional operation with stick steering (ISO ROPS/FOPS)	●
Spring seat suspension seat with 2 point retractable seat belt	●
External sound level according to ISO 6395 LwA 122 dB(A)	
Sound level in canopy according to ISO 6396 LpA 108dB(A)	
Whole body vibration value according to EN 14253 A(8) w in rage of 0,5 to 2 m/s <sup>2</sup> (typical value for similar machines)	

### Hydraulic system

Heavy duty gear pumps	●
System pressure: 15,5 MPa	●
Hydraulic tank capacity 223 litres	●
Filtration, suction	●
Manual pump for hydraulic tank	○
Cylinders: chrome plated stems, diameter: steer cylinders (2), 115 mm	
Cylinders: chorme plated stems, diameter: dump cylinders (2), 140 mm	

### Transmission

Full power shift, 4 speed forward/reverse	●
Brand/model: Dana 6 000 series	●

## Specifications

Capacity	
Tramming capacity	20 000 kg
Motion times	
Dumping	14 sec
Weights (standard equipped vehicle empty weight)	
Approximate weight	24 400 kg
Front axle load	14 800 kg
Rear axle load	9 600 kg

### Axles

Brand/model: Okubo rock tough 457	●
Degree of front axle oscillation: 20° (10° 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	●
Brake apply after 3 sec in neutral	●

### Tires

Tubeless tires design for underground mine service*	●
Tire size front and rear 18.00R25 (treaded)	●

### Electrical system

System voltage: start and accessories 24 V	●
Isolation switch lockout	●
24/12 V converter	●
Driving lights LED 8x40 W	●
Tail and brake lights	●
Detactable service light (required for CE approved vechicles) (optional)	○
Amber strobe light - ignition on	○

### Parts and services

Preventive maintenance kits	○
Repair and rebuild kits	○
Upgrade kits	○
Face mechanics tool set	○
Shop mechanics tool set	○

## Traction drive

Brand/model: Artisan 2400 series traction motor - 630 VAC 230 /kW, 301 kW peak dual power inverter. ●

## Hydraulic drive

Brand/model: Artisan 400 series auxiliary motor - 630 VAC 79kW, 113 kW peak single power inverter ●

## Battery drive

Brand/model: Artisan, 165 kWh, LiFePO4, 630 VDC ○

## Battery charger

Brand/model: Artisan, 165 kWh, nput 575 VAC ○

## Dump boxes

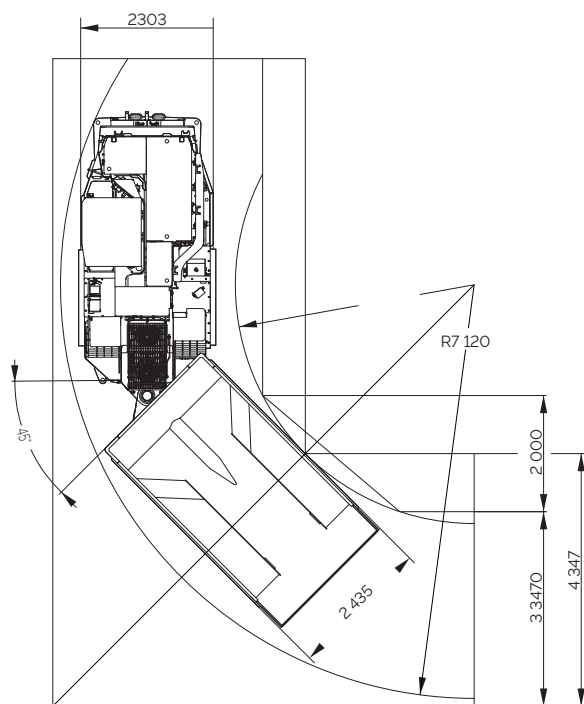
Standard configuration box unloaded						
%	Grade	0	5	10	15	20
	1 st gear	4.8	4.8	4.8	4.8	4.8
	2 nd gear	8.7	8.7	8.7	8.7	8.7
	3 rd gear	15.5	15.5	15.5	15.5	15.5
	4 th gear	25	25	25		
Standard configuration box loaded						
%	Grade	0	5	10	15	20
	1 st gear	4.8	4.8	4.8	4.8	4.8
	2 nd gear	8.7	8.7	8.7	8.7	
	3 rd gear	15.5	15.5			
	4 th gear	25				



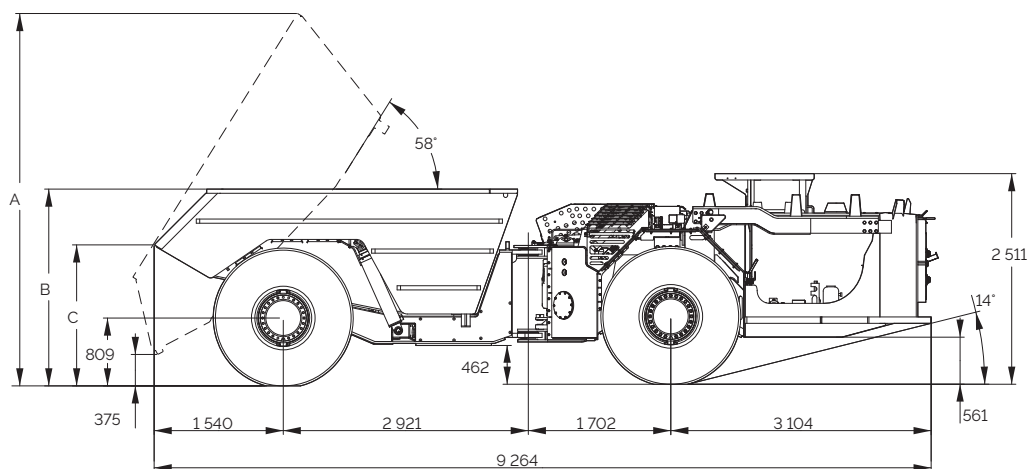
### Turning radius (in mm)

### Dimensions

- All dimensions shown are based on standard vehicle configuration with 27 mm tire deflection unloaded



### Side view (in mm)



### Dump boxes

	Dump boxes with tailgate				Dump boxes without tailgate					
			STD				STD			
Volume SAE heaped (m3)	110	100	91	84	110	100	90	84	77	67
Volume SAE semi-heaped (m3)	10	9.0	8.1	7.4	10	9.0	8.0	7.3	6.6	5.7
Volume SAE struck (m3)	9.2	8.0	7.1	6.5	9.0	8.0	7.0	6.3	5.6	4.6
Maximum material density (t/m3)	1.8	2.0	2.2	2.4	1.8	2.0	2.2	2.4	2.6	3.0
Width, dump box (mm)		2 400	2 400	2 400	2 400	2 435	2 435	2 435	2 435	2 435
Dump box position: box height max (mm)	(A)	4 445	4 341	4 301	4 199	4 445	4 330	4 230	4 200	4 100
Tramming position: dump box height (mm)	(B)	2 355	2 215	2 090	2 059	2 351	2 214	2 089	2 055	1 935



# United in performance. Inspired by innovation.

Performance unites us, innovation inspires us, and commitment drives us to keep moving forward. Count on Epiroc to deliver the solutions you need to succeed today and the technology to lead tomorrow.

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