

Terrah TS100 MA

Underground utility vehicle with high-volume tanks and tools for maintenance operations



Mobile underground maintenance solution

The Terrah TS100 MA maintenance vehicle performs quality routine servicing and repairs, without the need to move production machines from their working locations. The vehicle is equipped with four stainless steel tanks with a total capacity of 4,500 liters for fluids and oils, flow meters, an air compressor, and various tools. Thanks to flexible on-site maintenance, the Terrah TS100 MA can enhance your uptime.

Air-conditioned, ISO FOPS and ROPS-approved operator compartment with door interlock

The Terrah electronic controller offers efficient machine control and data logging from the multi-functional display

+ Main benefits

Safety – Terrah TS100 MA offers safe transport and clean handling of diesel and oils, and is designed for easy and safe access to integrated maintenance tools.

Productivity – equipped with four high-capacity configurable tanks, retractable hoses and quality tools, powered by the diesel engine, for flexible and efficient on-site maintenance.

Improved production efficiency – effective machine maintenance boosts your fleet utilization, and reduces costs and downtime of production machines.

Failsafe SAHR brakes at all wheels

Built to deliver. Designed to adapt.

The Terrah Series of utility vehicles are designed to maximize modularity, productivity and safety in small to medium-sized underground mining and civil construction tunnels. Built on a legacy of reliable, durable products now enhanced with Epiroc technology, the Terrah Series supports customers throughout their operations.



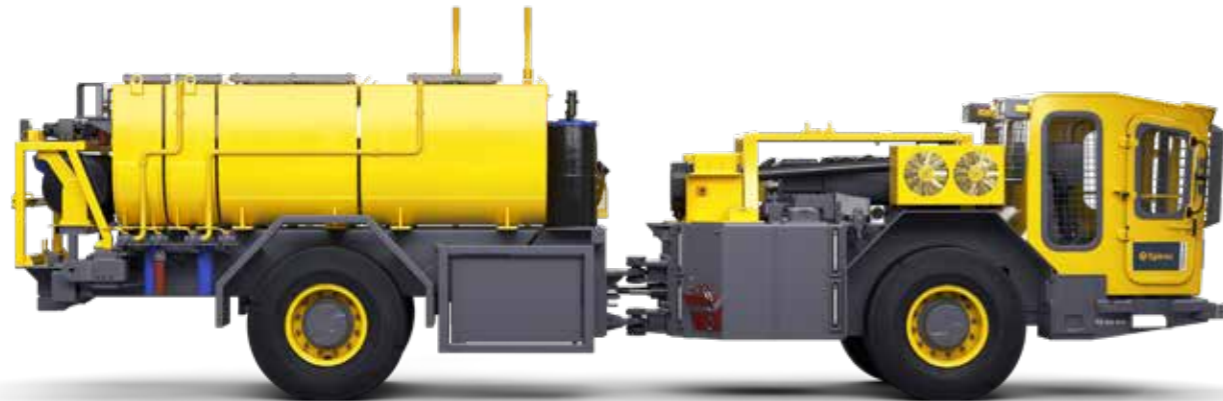
Contamination control provided by liquid filters

Filling nozzles with flow meters, drip trays, and long retractable hoses for efficient and safe handling of fluids

Compressor provides consistent air supply and power pressure for pneumatic tools and tire inflation

Fleet monitoring and data solutions

50 kg lubrication grease tank with pump and nozzle



Engine

	Standard	Alternative 1	Alternative 2
Brand/model	Deutz TCD914 L6 Tier III	Deutz BF6L914 Tier II	Deutz TCD6.1 L6 Tier III
Power at sea level	129.2 kW @ 2300 rpm	104 kW @ 2300 rpm	150kW @ 2300rpm
Cooling	Air	Air	Liquid (Glycol/water)
Engine control	Deutz EMRII	Deutz EMRII	Deutz EMRIII

Fuel

Fuel tank capacity	140 liter
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Exhaust system

Catalytic exhaust gas purifier	●
Fume diluter	●
Diesel Particulate Filter (DPF)	○

Transmission

Brand/model	Dana
20000 series power shift transmission	●
32000 series power shift transmission*	○

* Only with TCD6.1 Engine

Axles

Brand/model	Dana/113
Differential: front open	●
Differential: front, no-spin	○
Differential: rear open	●

Brakes

Wetted fully enclosed immersed brake disks	●
Spring Applied Hydraulic Released (SAHR) fail safe brakes - park/emergency	●
Manually activated park/emergency brake valve	●
Foot pedal activated hydraulic service brake	●

Specifications

Capacities	
Tramming capacity	4 500 liter
Weight*	
Weight, empty	17 150 kg
Axle load front, loaded	5 550 kg
Axle load rear, loaded	15 300 kg

*Weights are approximate and given with filled fluids and standard configured vehicle

Tires

Tire size front and rear	1200 x 20
Air filled tires	●
Polyurethane foam filled tires	○

Performance

Maximum speed on level ground*	
Gear 1	5 km/h
Gear 2	11 km/h
Gear 3	27 km/h

*For standard transmission

Electrical system

System voltage	24V
Alternator	80 Amps
Battery	2 x 110 Ah
Lockable double pole battery isolator switch	●
Engine starter isolation switch	○
Electric starter	●
Key switched ignition	●
Inlet plug for jump start	○
4 x front headlight LED	●
2 x rear drive lights LED	●
Directionally controlled drive lights	●
Amber rotating light	●
Reverse warning light and alarm	●
Brake lights	●
Orange turning direction indicator lights	●
Red and green marker lights	○

Control system

Terrah electronic controller	●
Robust water-resistant digital display	●
On-screen push button interface	●
Power Distribution Modules (PDM)	●
Electronic pressure sensors	●
Speedometer	●
Overspeed control	●
Decline speed control	●
Delayed engine shutdown	○
Inclinometer	●
Block out 3rd or 4th gear	○
Door Open Brake Applied (DOBA)	●
Neutral gear brake (NBA)	●
CAS interface	○
Seat belt switch interlock	○
Relay electrical switching (only available with air-cooled engine)	○
Mechanical pressure gauges*	○
Mechanical control panel switches*	○

*Only with relay switching

Digital products

Fleet monitoring with Fleet* on My Epiroc	●
Machine and fleet data via APIs	●

Hydraulic system

Gear pumps: brakes and steering	●
Auxiliary hydraulic power take-off (PTO): Gear pump	●
System pressure up to 310 Bar	●
11 µm return line filter	●

Safety system

3 x emergency stop buttons	●
2 x 9 kg handheld fire extinguishers	●
ANSUL manual dry fire suppression system	○
ANSUL FIRECHECK automatic dry fire suppression system	○

Main system

Steel fabrication construction	●
Bolt-on operating cabin	●
Front axle oscillation of 5° both sides	●
Integral hydraulic and fuel tanks	●
Centre articulated steering	●
Two double acting hydraulic steering cylinders (pull/push)	●
Steering lock bar	●
3-point of contact for boarding/exit	●
Front towing attachment with towing pin	●
Rear towing attachment with towing pin	○
Stainless steel tanks	●
Diesel tank: 2000 liter	●
Hydraulic oil tank: 1500 liter	●
Engine oil tank: 500 liter	●
Engine coolant tank: 500 liter	●
Lubrication grease: 50 kg	●
Air compressor	●
Central automatic lubrication system	●
Central manual lubrication system	○
Wiggins fast fuel and oil filling system	○
Wiggins central service points	○
2 x stop blocks (wheel chocks)	●

Operator's compartment

FOPS and ROPS-certified	●
Two person (1 x driver and 1 x passenger)	●
Windows, front window washers and wipers	●
Temperature and fan speed adjustable air conditioner	●
Canopy (no windows or air conditioner)	○
Steel grid protection over windows	●
Steering wheel	●
Suspension and height adjustable operator's seat	●
Canvas seat covers	○
Driver and passenger seats fitted with lap-type seat belts	●
3-point retractable seat belts	○
External camera with a monitor, split screen	●

Technical documentation

Instruction manual, one hardcopy	●
Spare parts manual, one hardcopy	●
PDF manuals on USB flash drive, two per machine	●

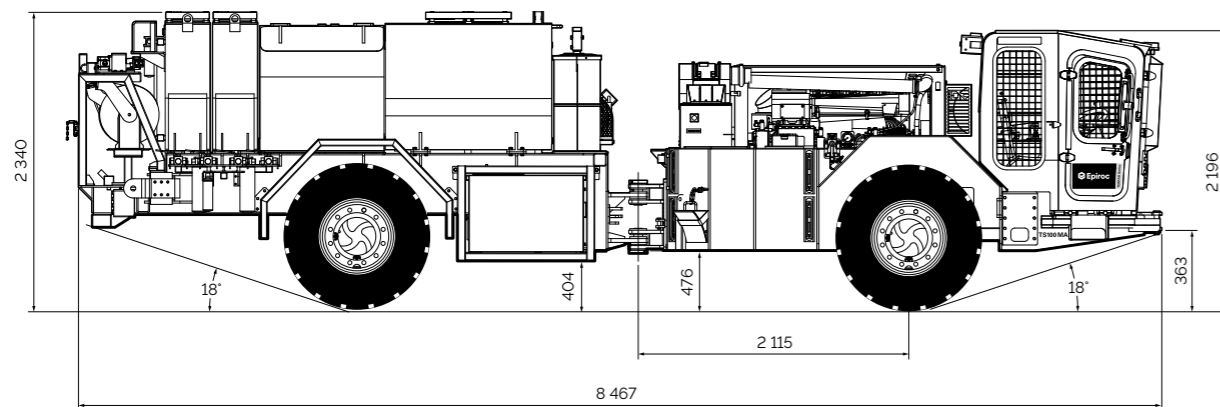
Painting and marking

Standard painting and taping	●
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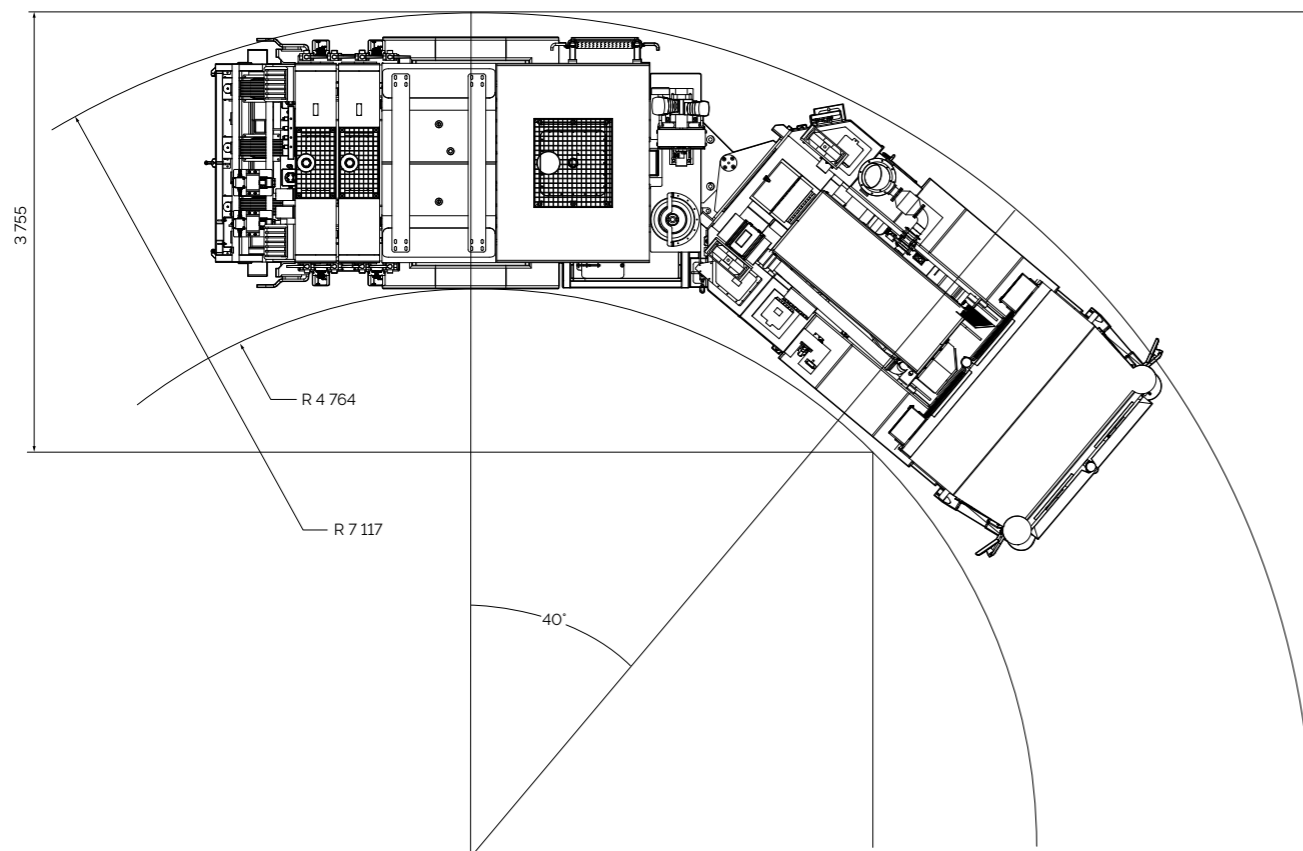
Technical specifications

Measurements

The dimensional drawings are shown in millimeters, and based on the standard vehicle configuration.

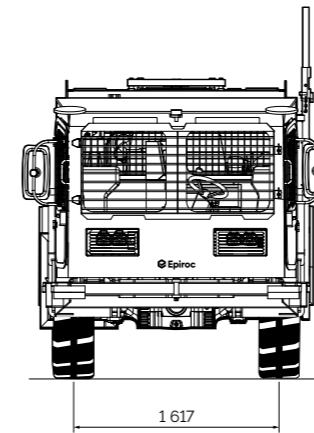


Right side view of Terrah TS100 MA

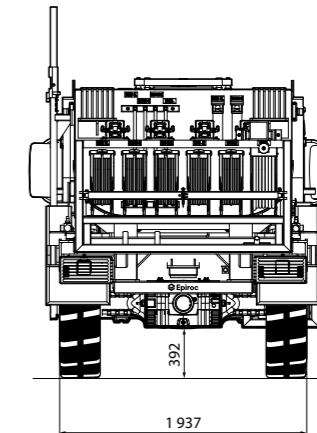


Turning radius of Terrah TS100 MA

Technical specifications



Front view of Terrah TS100 MA



Rear view of Terrah TS100 MA

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.



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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