

Terrah TS100 TR

Underground utility vehicle transporting liquid concrete



Terrah Series

Efficient concrete transport

The Terrah TS100 TR is a transmixer developed for efficient concrete transportation underground. Available in 4 m³ or 6 m³ drum configurations, the transmixer can be adapted to your needs. The variable-speed rotating drum ensures consistent concrete mixing, supporting your concrete construction and shotcrete operations. Designed with operator well-being in mind, the drum rotation and rear hatch hydraulic controls are ergonomically placed, always keeping the operator safe while discharging concrete.

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

Fleet monitoring and data solutions

Air-conditioned, ISO FOPS- and ROPS-certified operator compartment, with door interlock for increased safety

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.

High torque and hydraulic motor gearbox for drum rotation

Fast and easy refill of material through the top hatch

Hydraulically controlled variable speed rotating drum

High-power drivetrain to ensure reliable performance, even on steep inclines

High ground clearance for increased access on rough roadways



Technical specifications

● = Standard ○ = Option



Engine

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

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
32000 series power shift transmission	●

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 m³	5.4 m³ @ 90%
Weight*		
Weight, empty	13 450 kg	13 650 kg
Axle load front, loaded	8 200 kg	9 300 kg
Axle load rear, loaded	12 805 kg	16 795 kg
*Weights are approximate and given with filled fluids and a standard configured vehicle		

Tires

	4 m³	5.4 m³ @ 90%
Tire size front and rear	12.00 x 20	14.00 x 24
Air filled tires	●	●
Polyurethane foam filled tires	○	○

Performance

Maximum speed on level ground*	
Gear 1	3 km/h
Gear 2	5 km/h
Gear 3	11 km/h
Gear 4	24 km/h

* Standard engine

Technical specifications

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Electrical system

System voltage	24V
Alternator	200 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)	●
Collision Avoidance System Interface (CAS)	○
Seat belt switch interlock	○
Relay electrical switching*	○
Mechanical pressure gauges**	○
Mechanical control panel switches**	○
*Only with TCD914 L6 engine	
** Only with relay switching	

Digital products

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

Hydraulic system

Gear Pumps: cooling, brakes, steering and air conditioning	●
System pressure up to 210 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	●
5.4 m³ drum @ 90%	●
4 m³ drum	○
Hydraulically controlled drum rotation	●
Hydraulically actuated rear hatch	●
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 2-point 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	●

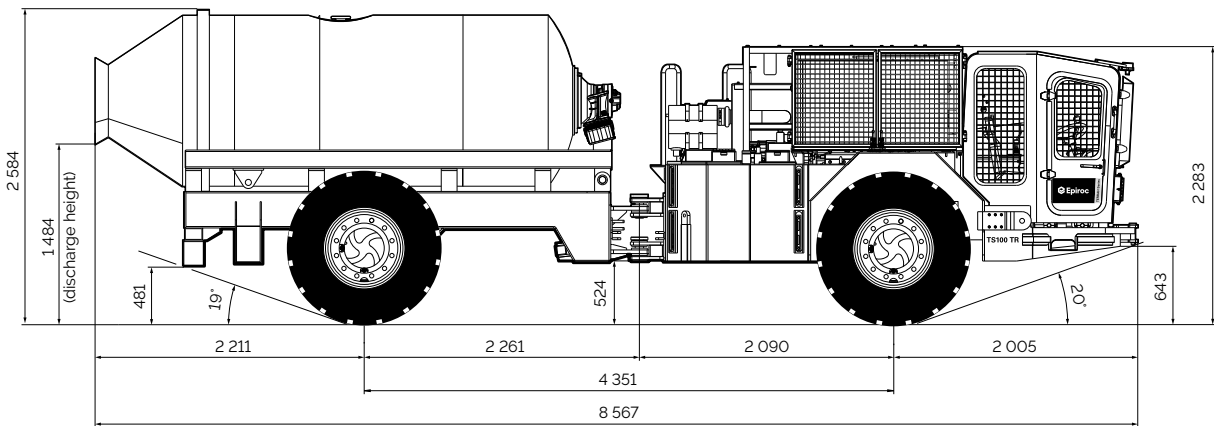
Painting and marking

Standard painting and taping	●
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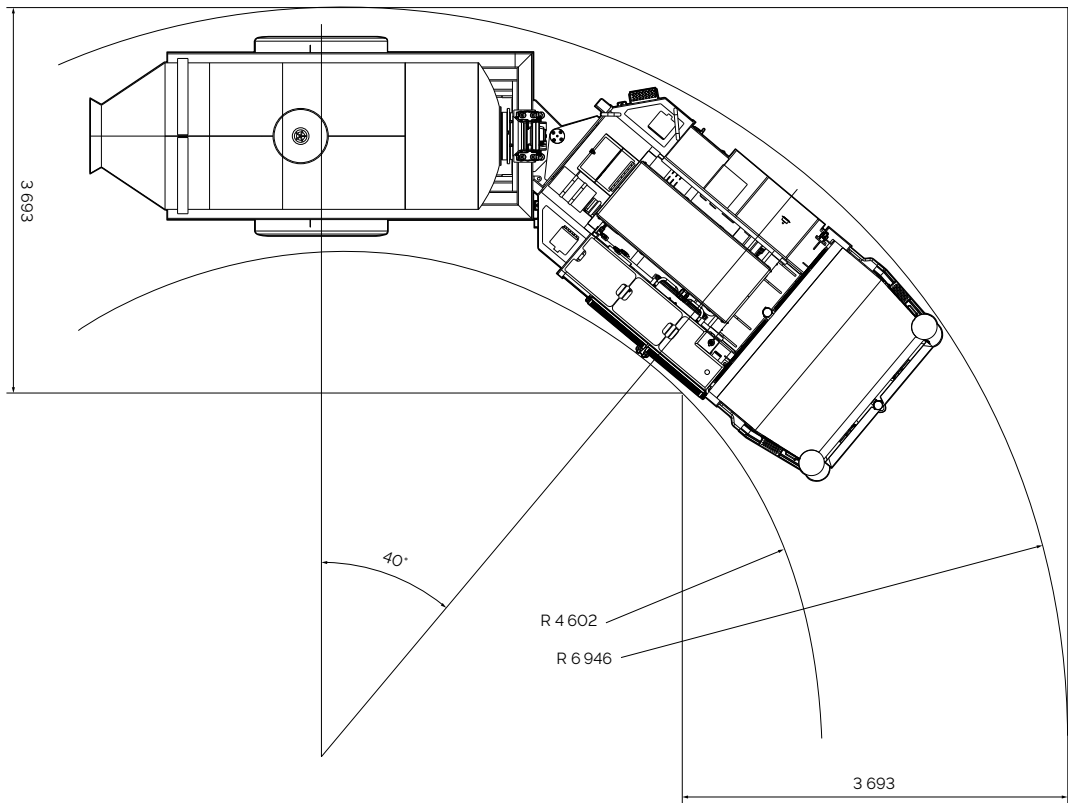
Technical specifications

Measurements

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

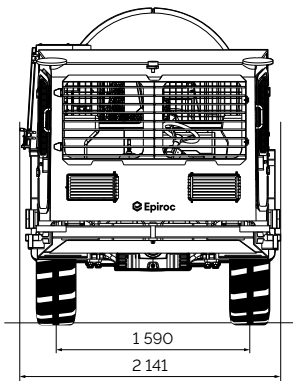


Left side view of Terrah TS100 TR

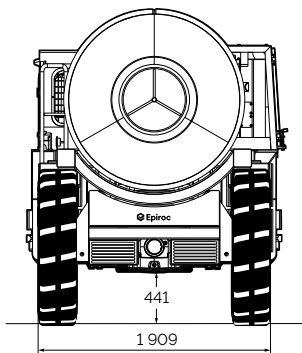


Turning radius of Terrah TS100 TR

Technical specifications



Front view of Terrah TS100 TR



Rear view of Terrah TS100 TR

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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