Terrah TS100 FR

Underground utility vehicle configurable with various Terrah FR100 applications cassettes

Epiroc



Versatility at its core

The Terrah TS100 FR flexible carrier and cassette solutions take versatility and cost-efficiency to new levels. Designed with safety and modularity in mind, a single carrier can be configured with a comprehensive range of cassettes, and easily adapted for various applications. Thanks to the flexible design and cassette solutions, the Terrah TS100 FR enables high utilization and productivity within your operations.

Main benefits

Safety – built with operator well-being in focus, featuring safety systems such as SAHR brakes, door-open-brake-apply (DOBA), and cassette loading safely controlled from the cabin to reduce manual handling.

Improved efficiency – the full utilization of a single carrier with modular cassette solutions optimize operators' time, reduce costs, and provide high flexibility throughout the entire operation.

High productivity – with a 10 tonne capacity carrier and a flexible roll-on/roll-off loading system that enables fast and smooth cassette changes, Terrah TS100 FR improves your productivity.



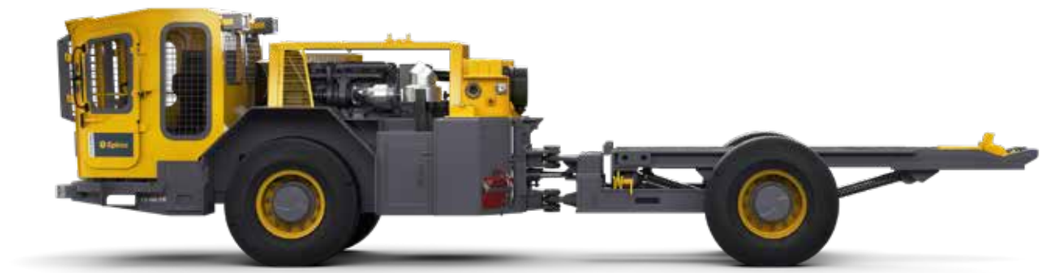
Built to deliver. Designed to adapt.

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.



Technical specifications

● = Standard ○ = Option



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	150 kW @ 2300 rpm
Cooling	Air	Air	Liquid (glycol/water)
Engine control	Deutz EMRII	Deutz EMRII	Deutz EMRIII

Fuel

Fuel tank capacity	140 liter

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 L6 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	10 000 kg
Weight*	
Weight, empty	14 795 kg
Axle load, front**	
Axle load, rear**	

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

**Weight depends on the Terrah FR100 cassette

Tires

Tire size front and rear	12.00 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

Technical specifications

● = Standard ○ = Option

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)	●
Collison Avoidance System Interface (CAS)	○
Seat belt switch interlock	○
Relay electrical switching*	○
Mechanical pressure gauges**	○
Mechanical control panel switches**	○

*Only available with air-cooled engine

**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	●
Tilting load frame with hydraulic controls	●
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	●

Crane

PALFINGER, PK6500, 1030 kg @ 5.6 m	○

Technical documentation

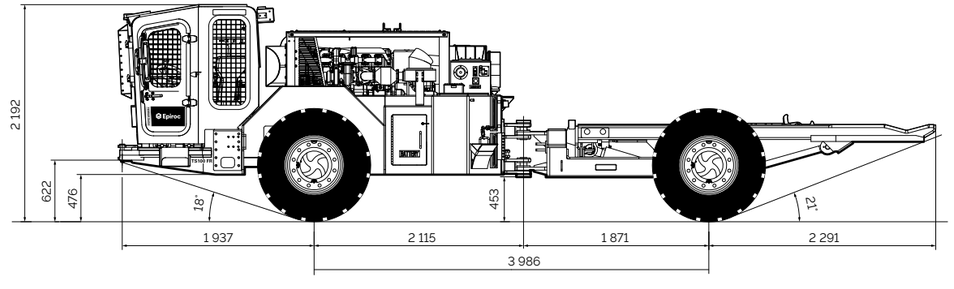
Instruction manual, one hardcopy	●
Spare parts manual, one hardcopy	●
PDF manuals on USB flash drive, two per machine	●

Painting and marking

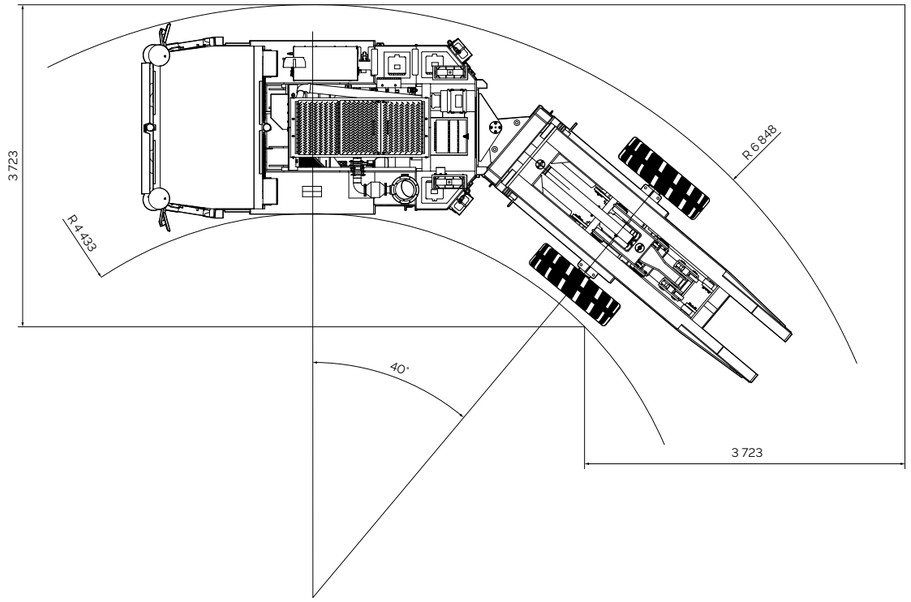
Standard painting and taping	●

Measurements

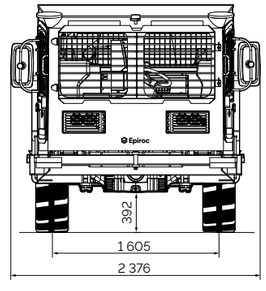
The dimensional drawings are shown in millimeters, and are based on the standard vehicle configuration.



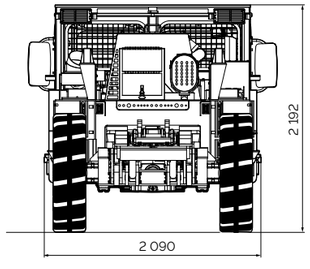
Left side view of Terrah TS100 FR



Turning radius of Terrah TS100 FR



Front view of Terrah TS100 FR.



Rear view of Terrah TS100 FR.

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.



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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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