

Terrah FR100 cassettes

Product catalogue



Terrah Series

Maximized utilization and flexibility

The Terrah TS100 FR flexible carrier and Terrah FR100 cassette solutions provide the flexibility and productivity needed in your operations. Designed for safe and efficient use, the single carrier supports a broad range of modular cassettes, allowing seamless configuration for multiple operational tasks. The Terrah FR100 cassette solutions include personal and material transport, water and concrete carriers, a scissor lift, and maintenance and lubrication solutions. The robust cassette loading frame provides excellent stability and enables a smooth loading and unloading process. Thanks to the flexible roll-on/roll-off loading system, operators can safely control cassette changes directly from the operator cabin.

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.



Safely transporting operators

The Terrah FR100 PEC personnel cassette efficiently transports operators to various underground locations, ensuring streamlined workflows and improved logistics. Offered in two configurations, it accommodates 20 or 24 passengers, depending on your needs. Built with multiple safety features, including a FOPS/ROPS-approved compartment, suspension seats with 4-point seatbelts, and a signaling system for two-way communication, always prioritizing passenger safety.



Specifications

Capacities	
Tramming capacity	20 passengers 24 passengers

Weight*	
Weight, empty	4 550 kg

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

Electrical

Voltage: 24V	●
2 x rear drive light LED	●
Reverse warning light and alarm	●
Brake lights	●
Orange turning direction indicator lights	●
Red and green marker lights	○

Main frame

Steel fabrication construction	●
3-points of contact for boarding/exit	●
20 Passenger enclosed cabin with air-conditioning	●
24 Passenger open canopy	○

Painting and marking

Standard painting and taping	●
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Technical documentation

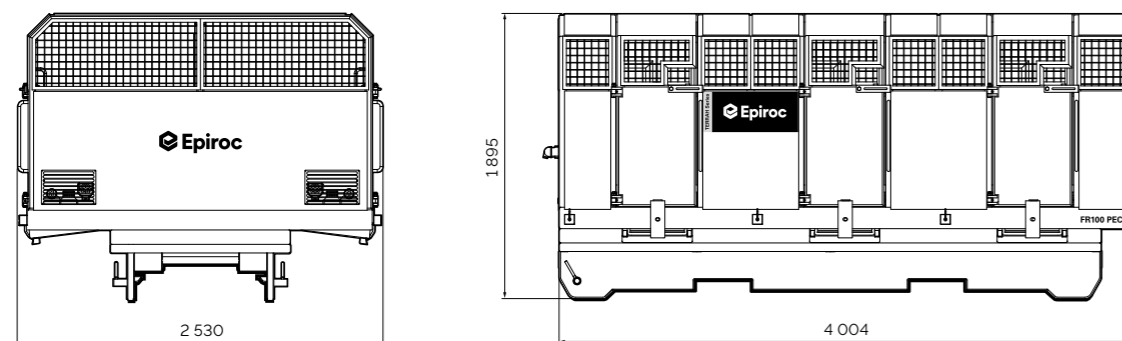
Instruction manual, one hardcopy	●
Spare parts manual, one hardcopy	●
PDF manuals on USB flash drive, two per machine	●

Dimensions

Height	1 895 mm
Height when loaded on Terrah TS100 FR	2 686 mm
Width	2 530 mm
Length	4 004 mm

Dimensional drawings

Illustrations show Terrah FR100 PEC front and side view



Mobile underground maintenance solution

The Terrah FR100 MA maintenance cassette ensures your fleet remains operational. By safely transporting diesel, oils, and the tools needed for routine service and repairs underground, it reduces the need to relocate machines from their working areas. Equipped with three stainless steel tanks with a total capacity of 3 000 liters for fluids and oils, dispensing nozzles, flowmeters, and an air compressor, the cassette facilitates safe and efficient on-site maintenance.



Specifications

Capacities	
Tramming capacity	3 000 liter

Weight*	
Weight, empty	3 970 kg

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

Electrical

Voltage: 24V	●
2 x rear drive light LED	●
Reverse warning light and alarm	●
Brake lights	●
Orange turning direction indicator lights	●
Red and green marker lights	○

Main frame

Steel fabrication construction	●
3-points of contact for boarding/exit	●
Stainless steel tanks	●
Diesel tank, 2 000 liter	●
Hydraulic oil tank, 500 liter	●
Engine oil tank, 500 liter	●
Lubrication grease, 50 kg	●
Ladder and guardrails	●

Hydraulic system

Hydraulically powered dispensing pumps	●
Five retractable hoses reels	●
Dispensing nozzles and flowmeters	●

System

Air compressor	●
High pressure washer	●
1 x 9 kg handheld fire extinguishers	●
ANSUL Manual dry fire suppression system	○
ANSUL FIRECHECK automatic dry fire suppression system	○

Painting and marking

Standard painting and taping	●
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Technical documentation

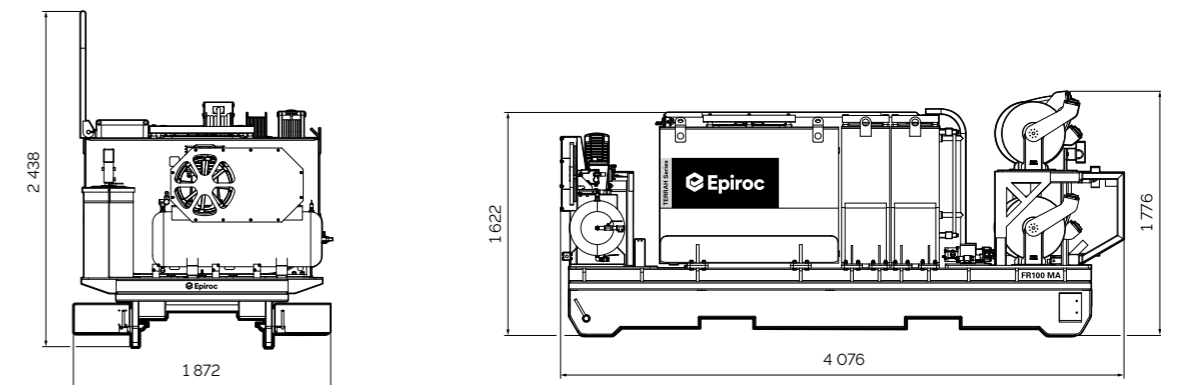
Instruction manual, one hardcopy	●
Spare parts manual, one hardcopy	●
PDF manuals on USB flash drive, two per machine	●

Dimensions

Height	1 776 mm
Height when loaded on Terrah TS100 FR	2 567 mm
Width	1 872 mm
Length	4 076 mm

Dimensional drawings

Illustrations show Terrah FR100 MA front and side view



Reliable material transporter

Terrah FR100 FL is an underground general material cassette, developed for safe and effective transportation of heavy materials and equipment. The large loading platform has a carrying capacity of 8 tonnes and is easily accessed for loading materials through a tailgate and drop sides. With the multiple tie-down points, the loaded material can be secured on the platform, preventing it from moving during transport.



Specifications

Capacities	
Tramming capacity	8 000 kg
Weight	
Weight, empty	1 995 kg

Electrical

Voltage: 24V	●
2 x rear LED drive lights	●
Directionally controlled drive lights	●
Reverse warning light and alarm	●
Brake light	●
Orange turning direction indicator lights	●
Red and green marker lights	○

Main frame

Steel fabrication construction	●
Flat deck with 500 mm sides and tailgate	●

Painting and marking

Standard painting and taping	●
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Technical documentation

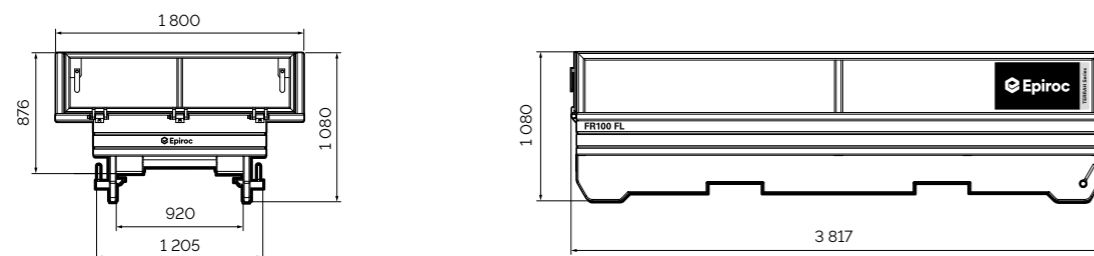
Instruction manual, one hardcopy	●
Spare parts manual, one hardcopy	●
PDF manuals on USB flash drive, two per machine	●

Dimensions

Height	1 080 mm
Height when loaded on Terrah TS100 FR	1 871 mm
Width	1 800 mm
Length	3 817 mm

Dimensional drawings

Illustrations show Terrah FR100 FL rear and side view



Elevating the performance

Terrah FR100 SCL is a scissor lift cassette designed for safe and efficient work at height. Combining the high lifting capacity of 3 tonnes with a maximum platform height of 3.5 meters, it offers high flexibility in underground operations. Its robust design and multiple safety systems, including stabilizing jacks, an anti-crush system, ground-level emergency lowering, and scissor stop blocks to prevent unexpected platform movements, ensuring a secure working area for operators.



Specifications

Capacities	
Tramming capacity	5 240 kg
Lifting capacity	3 000 kg
Weight	
Weight, empty	4 760 kg

Electrical

Voltage: 24V	●
2 x rear drive light LED	●
Reverse warning light and alarm	●
Brake lights	●
Orange turning direction indicator lights	●
Red and green marker lights	○

Main frame

Steel fabrication construction	●
3-points of contact for boarding/exit	●
Basket side height, 1 000 mm	●
Basket side height, 800 mm	○

Hydraulic system

Control valves in basket	●
Deadman control	●
Stabilizing cylinders	●

Painting and marking

Standard painting and taping	●
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Technical documentation

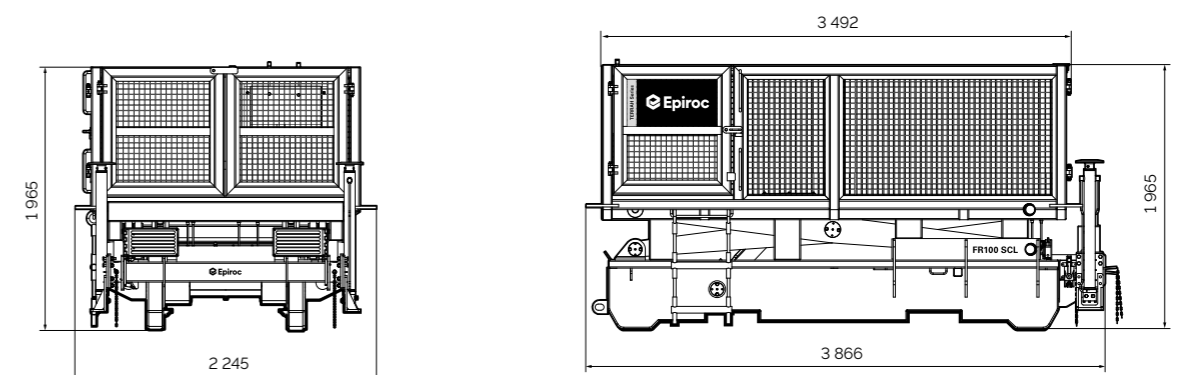
Instruction manual, one hardcopy	●
Spare parts manual, one hardcopy	●
PDF manuals on USB flash drive, two per machine	●

Dimensions

Height	1 965 mm
Height when loaded on Terrah TS100 FR	2 756 mm
Width	2 245 mm
Length	3 866 mm

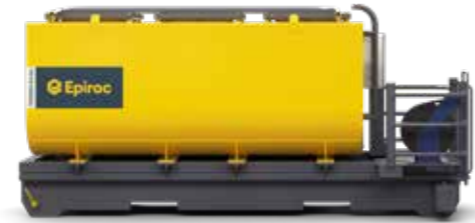
Dimensional drawings

Illustrations show Terrah FR100 SCL front and side view



Safe and effective fluid transport

The Terrah FR100 LU cassette efficiently transports oil and fuel underground, supporting underground machines with refueling and on-site oil top-up. Developed for the safe transportation and clean handling of fluids, featuring a stainless-steel tank with a total capacity of 5 000 liters. Thanks to a dispensing system equipped with flowmeters and nozzles, efficient fluid management is enabled.



Specifications

Capacities	
Tramming capacity	5 000 liter
Weight*	
Weight, empty	3 221 kg

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

Electrical

Voltage, 24V	●
2 x rear drive light LED	●
Reverse warning light and alarm	●
Brake lights	●
Orange turning direction indicator lights	●
Red and green marker lights	○

Main frame

Steel fabrication construction	●
3-points of contact for boarding/exit	●
Stainless steel tanks	●
Diesel tank, 5 000 liter	●
Ladder and guardrails	●

Hydraulic system

Hydraulically powered dispensing pumps	●
Five retractable hoses reels	●
Dispensing system and flowmeters	●

System

Air compressor	●
High pressure washer	●
1 x 9 kg handheld fire extinguishers	●
ANSUL Manual dry fire suppression system	○
ANSUL FIRECHECK automatic dry fire suppression system	○

Painting and marking

Standard painting and taping	●
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Technical documentation

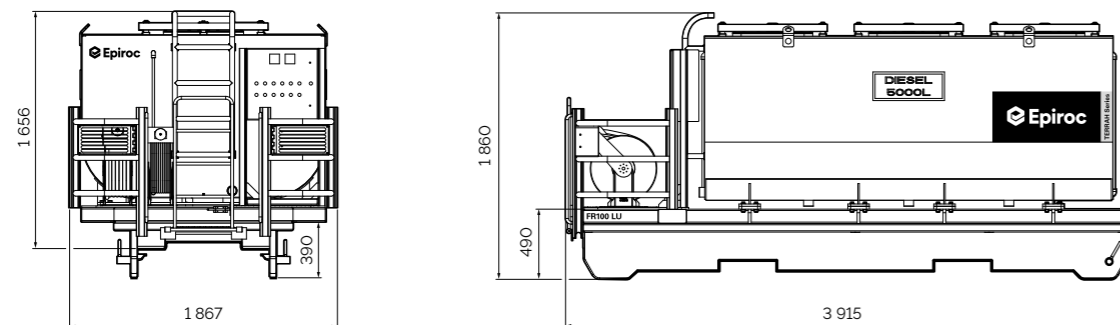
Instruction manual, one hardcopy	●
Spare parts manual, one hardcopy	●
PDF manuals on USB flash drive, two per machine	●

Dimensions

Height	1 860 mm
Height when loaded on Terrah TS100 FR	2 651 mm
Width	1 867 mm
Length	3 915 mm

Dimensional drawings

Illustrations show Terrah FR100 LU front and side view



Efficient concrete transport

The Terrah FR100 TR transmixer cassette supports your concrete construction and shotcrete operations with efficient concrete mixing and transportation. Featuring a 3 m³ high-capacity rotating drum equipped with a robust internal auger to ensure consistent concrete mixing. The hydraulic controls for drum rotation and the rear hatch are ergonomically positioned, keeping the operator safe during concrete discharge.



Specifications

Capacities	
Tramming capacity	3 m³
Weight	
Weight, empty	2 695 kg

Electrical

Voltage, 24V	●
2 x rear LED drive lights	●
Directionally controlled drive lights	●
Amber rotating light	●
Reverse warning light and alarm	●
Brake light	●
Orange turning direction indicator lights	●
Red and green marker lights	○

Main frame

Steel fabrication construction	●
3 m³ drum	●
Hydraulically controlled drum rotation	●
Hydraulically actuated rear hatch	●

Painting and marking

Standard painting and taping	●
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Technical documentation

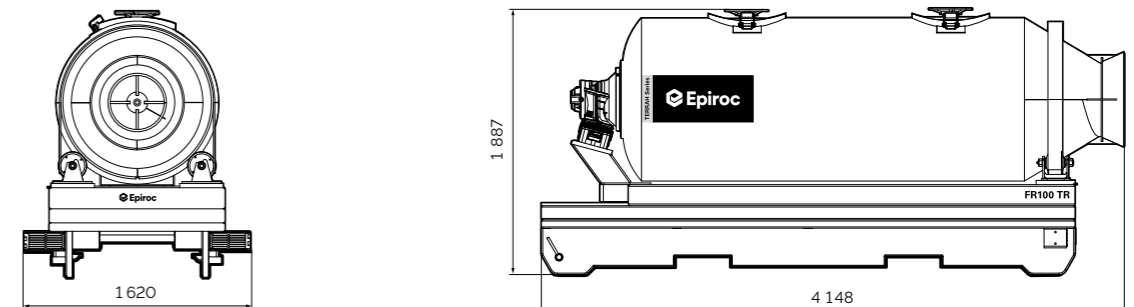
Instruction manual, one hardcopy	●
Spare parts manual, one hardcopy	●
PDF manuals on USB flash drive, two per machine	●

Dimensions

Height	1 887 mm
Height when loaded on Terrah TS100 FR	2 687 mm
Width	1 620 mm
Length	4 148 mm

Dimensional drawings

Illustrations show Terrah FR100 TR front and side view



Ensuring a healthier operating environment

The Terrah FR100 WAC water cassette features a 5 000 liter stainless steel tank, a reliable water pump system, and an efficient water mist spraying system. Developed for large-scale water transport and dust control, it enables improved air quality in dust-prone environments and ensures clearer roads and work areas. Operators enjoy safe and easy access to refilling points and spraying functions.



Specifications

Capacities	
Tramming capacity	5 000 liter
Weight	
Weight, empty	2 750 kg

Electrical

Voltage: 24V	●
2 x rear drive light LED	●
Reverse warning light and alarm	●
Brake lights	●
Orange turning direction indicator lights	●
Red and green marker lights	○

Main frame

Steel fabrication construction	●
3-points of contact for boarding/exit	●
Stainless steel tanks	●
Water tank, 5 000 liter	●
Ladder and guardrails	●

Hydraulic system

Hydraulically powered dispensing pumps	○
Spraying nozzles	○

Painting and marking

Standard painting and taping	●
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Technical documentation

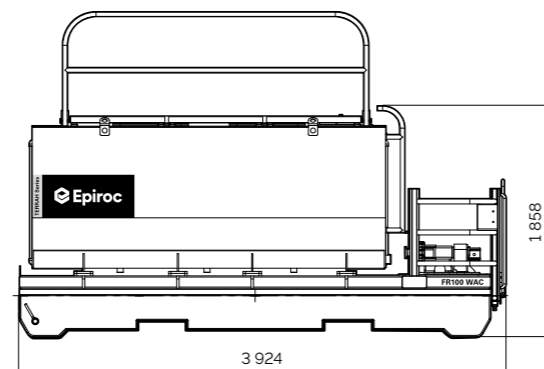
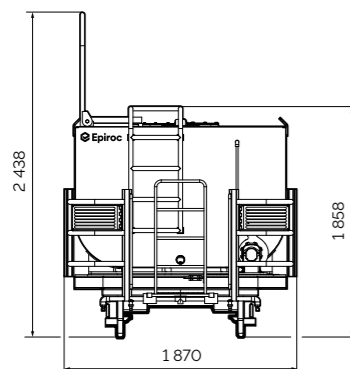
Instruction manual, one hardcopy	●
Spare parts manual, one hardcopy	●
PDF manuals on USB flash drive, two per machine	●

Dimensions

Height	1 858 mm
Height when loaded on Terrah TS100 FR	2 649 mm
Width	1 870 mm
Length	3 924 mm

Dimensional drawings

Illustrations show Terrah FR100 WAC front and side view



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

Transmission

Brand/model	Dana
20000 series power shift transmission	●
32000 series power shift transmission*	○
*Only with TCD6.1 L6 engine	

Performance

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

*For standard transmission

Axles

Brand/model	Dana/113
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Dimensions

Height	2 191 mm
Width	2 376 mm
Length	8 254 mm
Inner turning radius	4 433 mm
Outer turning radius	6 848 mm

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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