

Terrah TS100 CHE, Terrah TS100 CHA

Underground utility vehicle for emulsion and ANFO
explosives charging



Terrah Series

Versatile charging carrier

The versatile Terrah TS100 CHE (emulsion) and Terrah TS100 CHA (ANFO) charging carriers are engineered to meet both face and up-hole charging requirements. Developed for reliable and productive charging operations, the machines feature a compact design and a hydraulic boom lifting system, providing a reach of over 5x5 meters from a single setup. Designed with multiple safety systems, including a self-leveling boom basket fitted with an anti-crush system and an optional up-hole hose pusher to minimize heavy manual handling.

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

Electrical hydraulic power pack designed to reduce heat and emissions during operation

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

Fleet monitoring and data solutions

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.

Operator controls located in the basket

Hydraulically controlled, height-adjustable canopy

Hydraulically controlled telescopic boom with unpowered emergency lowering system

External work lights for improved visibility

Failsafe SAHR brakes on all wheels

Stabilizing jacks for a rock solid setup

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
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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	○

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	Terrah TS100 CHE	Terrah TS100 CHA
Tramming capacity	4 000 kg	500 kg
Weight*		
Weight, empty	15 190 kg	16 190 kg
Axle load front, loaded	8 655 kg	6 535 kg
Axle load rear, loaded	10 535 kg	10 155 kg
*Weights are approximate and given with filled fluids and standard configured vehicle		

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

Technical specifications

● - Standard ○ - Option

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	○
Illuminated 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 BF6L914 or TCD914 L6 engines	
** Only with relay switching	

Digital products

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

Hydraulic system

Gear Pumps: charging system, brakes, steering and air conditioning	●
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	●
Operator's control in basket	●
Rear stabilizing cylinders	●
Front stabilizing cylinders	○
Electrohydraulic power pack	○
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

Lift crane and basket, PALFINGER, PK6500, 5 m	●
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Technical documentation

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

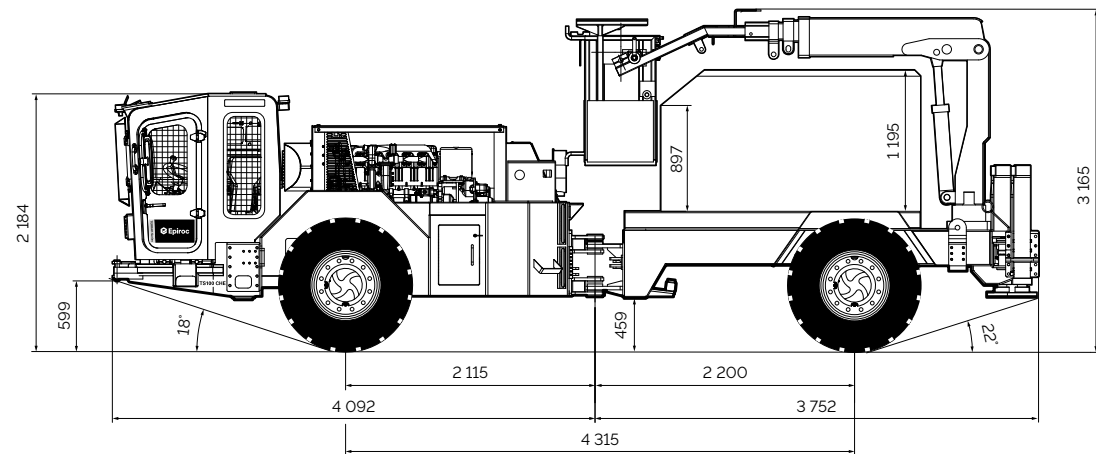
Painting and marking

Standard painting and taping	●
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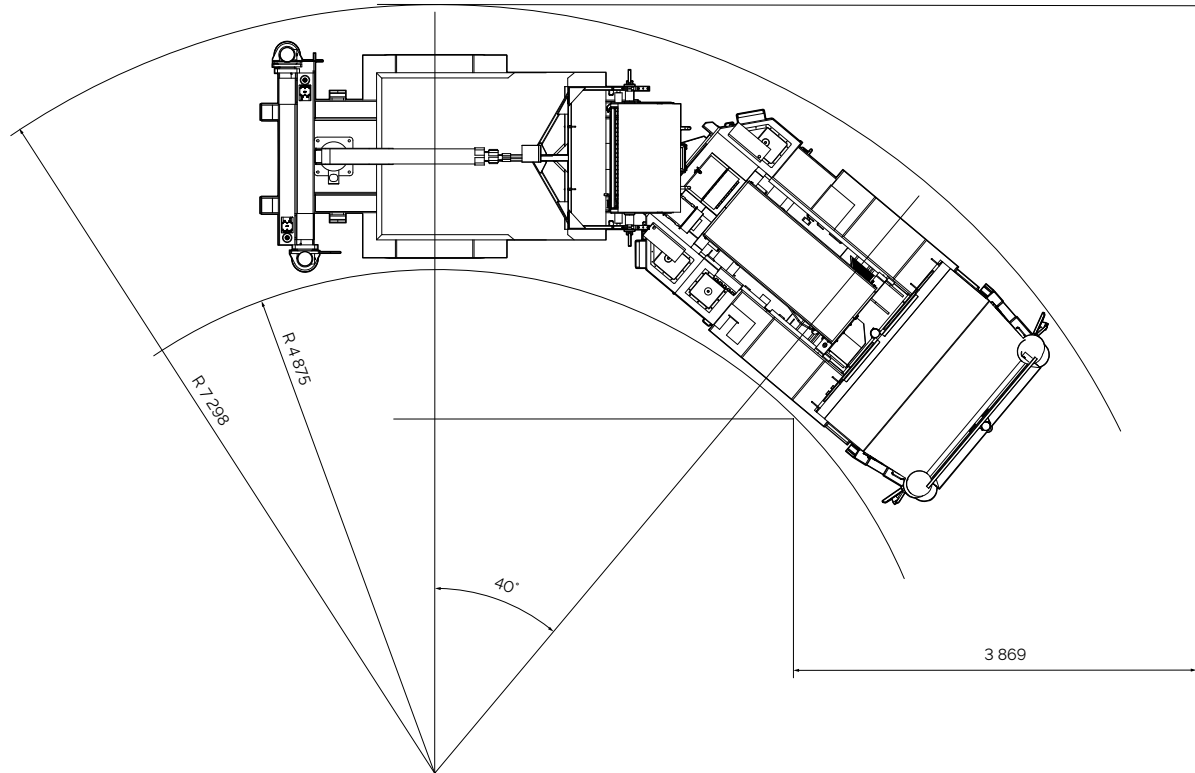
Technical specifications

Measurements

The dimensional drawings are shown in millimeters, and based on the standard vehicle configuration, with optional front stabilizing cylinders.
Note: emulsion unit is not included, only for indication of space.
Note: dimensional drawings for Terrah TS100 CHE and Terrah TS100 CHA carriers are the same.

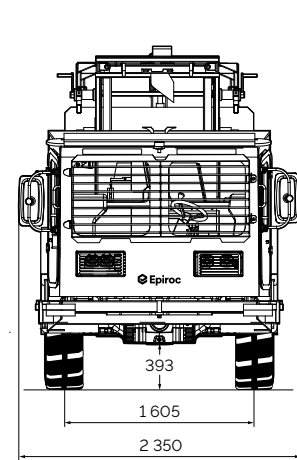


Left side view of Terrah TS100 CHE

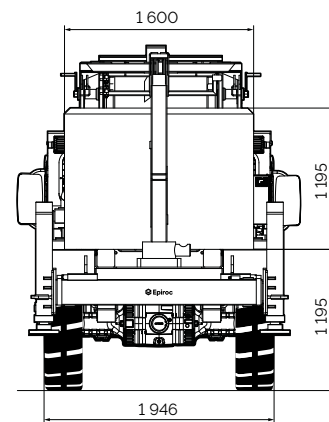


Turning radius of Terrah TS100 CHE

Technical specifications



Front view of Terrah TS100 CHE



Rear view of Terrah TS100 CHE

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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