Terrah TS100 CHE, Terrah TS100 CHA

Underground utility vehicle for emulsion and ANFO explosives charging

Epiroc



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 PLC controller offers efficient machine control and data logging from the multi-functional display

Electrohydraulic 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



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

Built to deliver. Designed to adapt.

The Terrah Series 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.



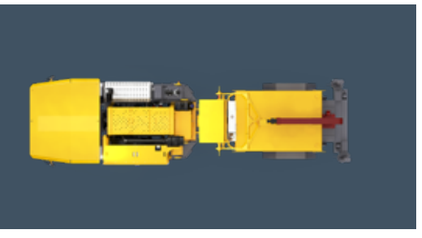
+ Safety at its core

Designed with operator safety and well-being in mind, the operator's compartment combines ROPS/FOPS protection, comfort, and functionality. Thanks to advanced suspension seats and climate control, operator fatigue can be reduced, while excellent visibility supports safer interactions and precise machine control.



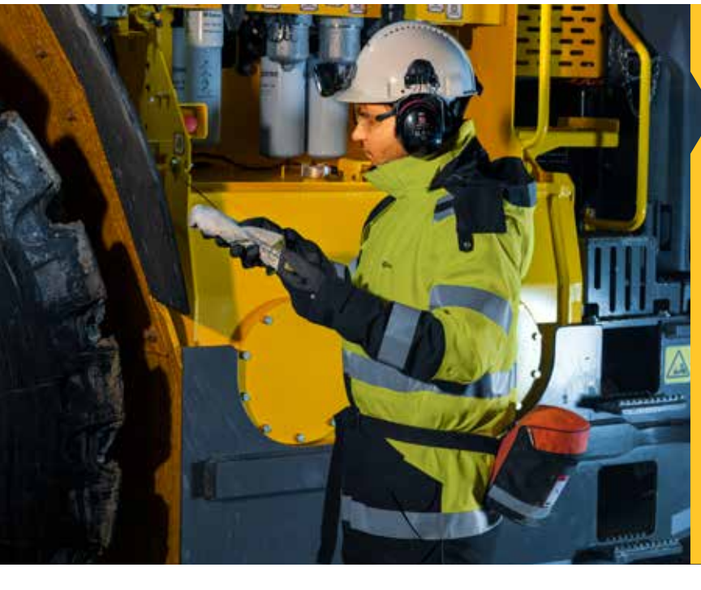
+ Performance that saves time

Driven by a high-performance drivetrain, the Terrah Series delivers great capability, enhanced control, and improved operational efficiency through reduced ramp traveling time. The fully automatic drivetrain ensures consistent performance across diverse underground conditions, while the integrated exhaust brake enhances downhill speed control and reduces brake wear.



+ Reliability at scale

The Terrah Series utility vehicles are engineered for reliability and high availability, combining robust components, advanced data logging, and an integrated onboard monitoring system to minimize the risk of breakdowns and maximize uptime. When maintenance is required, the technician-friendly service bay enables routine tasks to be done safely, quickly, and easily.



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.

Technical specifications

Engine

	Standard	Alternative*
Brand/ model	Cummins QSL9	Cummins QSL9
Power at sea level	213kW @ 2000rpm	213kW @ 2000rpm
Cooling	Liquid (glycol/water)	Liquid (glycol/water)
Engine control	EU Stage IIIA	EU Stage V

All engines are CANMET and MSHA, USA approved.
*Please note! Require ultra low sulfur diesel and low ash engine oil

Exhaust System

EU Stage IIIA	EU Stage V
Catalytic exhaust gas purifier	Diesel Exhaust Fluid (DEF)
Fume diluter	Selective Catalytic Reduction (SCR)
	Diesel Particulate Filter (DPF)

Transmission

Dana T14 series power shift transmission
Torque converter lockup
Automatic gear shifting

Axles

Brand/ model	Dana 113
Differential, front	Open
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
Hand pump for releasing brakes
Brake-by-wire service brake

Tires

Size front and rear	12.00 x 20
Air-filled tires	

Steering

Frame articulation ± 40°

Operator's compartment

FOPS/ ROPS certified
Two Person (1 x driver and 1 x passenger)
Windows, front window washers and wipers
Thermal and sound insulation
Temperature and fan speed adjustable air conditioner with heater
Steering wheel
Air suspension and height adjustable operator's seat
Driver seats fitted with 3-point seat belt
Rear view mirrors
Cup holder
Flashlight with charger
External camera

Specifications

Capacities	
Tramming capacity	4 000 kg
Weight*	
Weight, empty	15 190 kg
Axle load, front (at GVW)	8 655 kg
Axle load, rear (at GVW)	10 535 kg

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

Main frame

Steel fabrication construction
Bolt-on operating cabin
Front axle oscillation of 5° both sides
Integral hydraulic and fuel tanks
Two double acting hydraulic steering cylinders (pull/push)
Articulation lock
3-point of contact for boarding/exit
Front towing attachment
Central manual lubrication system
2 x stop blocks (wheel chocks)
Propshaft slings, protection
Tank level sight glasses
Lift crane and basket, Palfinger PK6500, 5m
Operator's control in basket
Rear stabilizing jacks
Anti-crush system

Fuel

Fuel tank size	200 liter

Compatible with HVO100.

Control system

Terrah PLC controller
Robust water-resistant digital display
On-screen push button interface
Electronic pressure sensors
Speedometer
Overspeed control
Decline speed control
Delayed engine shutdown
Inclinometer
Door Open Brake Applied (DOBA)
Neutral gear brake (NBA)
Seat belt switch interlock



Technical specifications

Electrical system

System voltage	24V
Battery	2 x 100 Ah
Alternator	180 Amps
Lockable ignition switch	
Inlet plug for jump start	
Front grounding straps: Chain	
12V, 20 A power supply in cabin with socket and connector	
Epiroc signature lights: front	
Epiroc signature lights: rear	
Engine starter isolation switch	
Lockable double pole battery isolator switch	
Directionally controlled drive lights	
Steering column control	
Amber warning lights	
Reverse warning light and alarm	
Rear service brake warning lights	
Orange turning direction indicator lights	
Red and green marker lights	
Illuminating lights	

System

3 x emergency stop buttons
2 x 9 kg handheld fire extinguishers

Hydraulic system

Gear pumps
System pressure up to 350 Bar
11 µm return line filter

Measurements

Noise
Vibration
Visibility

Digital product

Fleet monitoring with Fleet+

Options

Axles

Differential front	No-spin

Tires

Polyurethane foam filled tires

Operator's compartment

Canopy (no windows and no air conditioner)
Window protection

System

ANSUL manual dry fire suppression system
ANSUL FIRECHECK automatic dry fire suppression system

Main frame

Central automatic lubrication system
Wiggins fast fuel fill
Wiggins central service points

Control system

Collision Avoidance System (CAS) Interface
Secondary steering and braking system
Machine speed limit

Hydraulic system

Electrohydraulic power pack for boom function

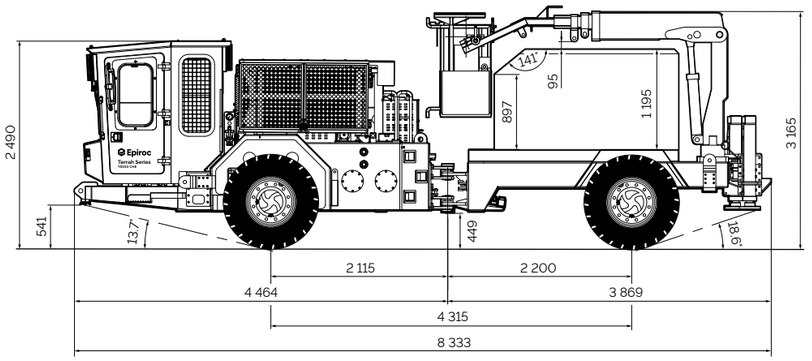
Grade performance

Standard configuration of Terrah TS100 CHE, unloaded												
%	Grade	0	2	4	6	8	10	12	14	16	18	20
km/h	1st gear	4,6	4,6	4,6	4,6	4,6	4,5	4,5	4,5	4,5	4,5	4,5
	2nd gear	9,5	9,4	9,4	9,4	9,3	9,3	9,3	9,2	9,2	9,2	9,1
	3rd gear	16,4	16,4	16,3	16,2	16,1	16,0	15,9	15,7	14,9	14,4	14,0
	4th gear	28,9	28,6	28,3	28,0	26,1	24,6	23,0	21,5	20,3	19,0	16,6
Standard configuration of Terrah TS100 CHE, loaded												
km/h	1st gear	4,6	4,6	4,6	4,6	4,5	4,5	4,5	4,5	4,5	4,5	4,5
	2nd gear	9,4	9,4	9,4	9,3	9,3	9,3	9,2	9,2	9,1	9,1	9,1
	3rd gear	16,4	16,3	16,2	16,1	15,9	15,8	14,9	14,3	13,7	13,1	12,5
	4th gear	28,8	28,4	28,1	25,8	23,8	21,8	20,3	18,5			

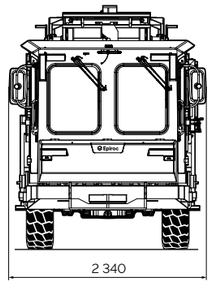
Technical specifications

Measurements

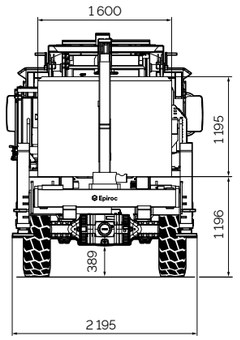
The dimensional drawings are shown in millimeters, and are based on the standard vehicle configuration.



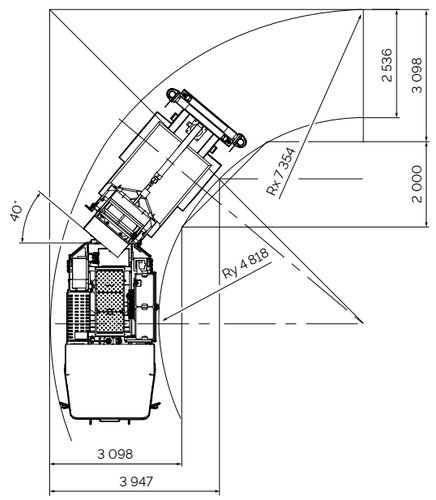
Left side view of Terrah TS100 CHE



Front view of Terrah TS100 CHE



Rear view of Terrah TS100 CHE



Turning radius of Terrah TS100 CHE

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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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