# Scooptram ST10 P

Underground loader with 10-tonne capacity

Epiroc



# Upgrade your load and haul productivity

Scooptram ST10 P is a 10-tonne underground loader built on years of experience, with the Scooptram ST1030 as its foundation. With a new design update, enhanced front-end performance, machine serviceability, alongside the new CE standards compliance, and a stage V engine alternative, Scooptram ST10 P provides increased safety, productivity and reliability to underground mining operations.

## Main benefits

**Safety first** Scooptram ST10 P enhances safety through CE-certified safety functions, including braking and steering system safety, prevention of unintended movement, emergency stop integration, and fire suppression system engine shutdown. Its improved machine control, emergency steering capability, safer service access, and remote-control functionality help reduce risk for both operators and maintenance personnel.

**Outstanding productivity** thanks to a high-lift front-end as standard, improved boom and bucket performance, powerful engine alternatives, and digital monitoring capabilities that support efficient machine utilization. Enhanced hydraulics, machine control systems, and data visualization tools help maximize operational efficiency and planning.

**Increased reliability** through a strengthened front and rear frame, simplified hydraulics with fewer failure points, stainless steel hard lines, and a redesigned cooling system for more dependable performance in demanding underground conditions. Optimized component placement and improved service access also support easier maintenance and increased machine uptime.



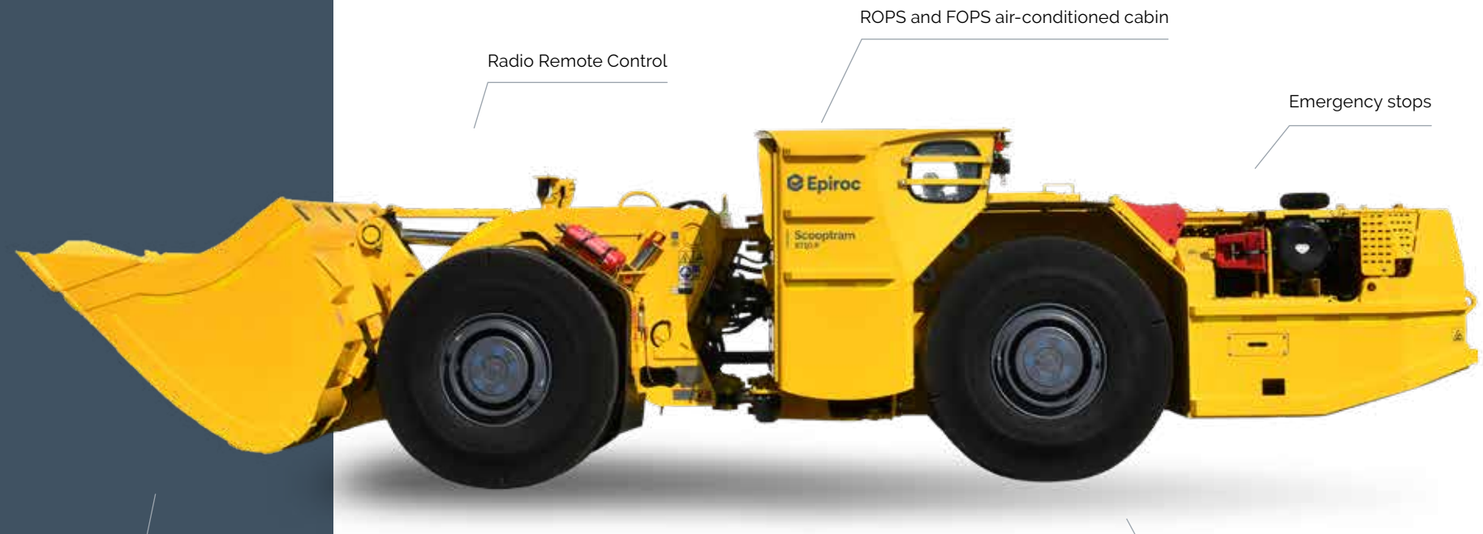
Scooptram ST10 P is now available with Stage V engine option, designed to deliver higher power and torque while reducing harmful emissions through an advanced aftertreatment system



Scooptram ST10 P is equipped with a new Programmable Logic Controller (PLC) that has a better input/output interface, as well as improved self-diagnostic and fault protection functions.



Several digital tools are integrated into the Scooptram ST10 P, enabling you to monitor your fleet and track key metrics using Fleet+ on My Epiroc, or seamlessly integrate fleet data into your systems through APIs for improved operational efficiency.



# The same reliable loader, now even better

The Scooptram ST10 P represents the latest evolution of Epiroc's proven 10-tonne underground loader, combining key design upgrades with enhanced safety, productivity and serviceability. From new engine alternatives and CE certification to improved hydraulics and maintenance access, every update is designed to support efficient, safe, productive and reliable underground operations.



## + Increased safety

Scooptram ST10 P is equipped with a FOPS/ROPS-certified operator compartment, a SAHR braking system, and numerous safety features, including a door interlock, locking pins, emergency stop buttons, and a rear-view camera. Equipped with a new-generation Programmable Logic Controller (PLC) and upgraded control systems, the Scooptram ST10 P complies with ISO 19296 and ISO 13849, meets CE requirements, and enhances operational safety.



## + Upgraded front-end

Experience a more powerful and safe front-end with the new Scooptram ST10 P. By optimizing the Z-bar linkage, reinforcing the structure, and introducing stronger hoist cylinders, Scooptram ST10 P delivers a significantly higher dump height, a doubled low dump angle, and increased breakout force.



## + Improved serviceability

As part of the reliability upgrades, Scooptram ST10 P comes with a new layout of the main components in the rear frame. The new design has been updated to provide easier maintenance and better access to internal components such as filters, valves, and fire suppression components. Additionally, the steering priority valve, wheel chocks, engine, urea pump, fuel and engine filters, and the transmission oil sensor have been repositioned for easier access.



## 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.



# Wearpact Light
## for improved bucket life

Enhance your loader bucket with Wearpact - a safe, high-quality, bolt-on Ground Engagement Tool (GET). Its low-profile, self-sharpening edge guarantees optimal penetration and clean engagement with each pass. Expertly engineered for peak performance, Wearpact ensures maximum longevity for your GET.

Additionally, its design minimizes material build-up above the lip, preventing extra carryback.



Reduced bucket repair costs

Increased bucket life

Increased machine availability

Continuous operation with fast and easy service

# Technical specifications

## Specifications

| Capacities | Stage V | Stage IIIA |
|---|---|---|
| Tramming capacity* | 10 000 kg | 10 000 kg |
| Breakout force, hydraulic | 18 810 kg | 18 810 kg |
| Breakout force, mechanical | 17 600 kg | 13 900 kg |
| *Tramming capacity with EOD bucket 9 000 kg | | |
| Boom raising | 8.3 sec | |
| Boom lowering | 6.0 sec | |
| Dumping | 2.1 sec | |
| **Weights (standard empty vehicle)** | | |
| Approximate weight | 28 900 kg | 27 740 kg |
| Axle load, front end | 12 700 kg | 13 378 kg |
| Axle load, rear end | 16 200 kg | 14 362 kg |

## Sound and vibration

| | |
|---|---|
| **Closed cabin** | |
| Sound level according to ISO 6394 LpA | 82,5 dB(A) |
| Whole body vibration value according to EN 14253 A(8)w | 0.5–2.0 m/s² |
| **Canopy** | |
| Sound level according to ISO 6394 LpA | 101 dB(A) |
| **External** | |
| External sound level according to ISO 6393 LwA | 119.6 db(A) |

## Requirements and compliances

- Machinery directive - 2006/42/EC
- Low voltage directive - 2014/35/EC
- Electromagnetic compatibility directive - 2014/30/EC

## Axles

| | |
|---|---|
| Brand/model | Kessler D102 |
| Front differential | Limited slip |
| Rear differential | No spin |
| Oscillation | 16° (8° on each side) |

## Transmission

| | |
|---|---|
| Brand/model | Funk DF250 |
| Type | Automatic power shift with integrated converter, fully modulated 4 speed shifting, forward/reverse with de-clutch function |

## Brakes

| | |
|---|---|
| Type | Fully enclosed, force-cooled, multiple wet discs at each wheel end |
| Service / park / emergency brakes | SAHR |

## Tires

- Tubeless tire design for underground mine service

| | |
|---|---|
| Front and rear size | 18.00R25 (slicks/treaded) |

As applications and conditions vary, Epiroc recommends that the user consults with tire suppliers to obtain the optimum tire selection.

## Operator's compartment

- Canopy (ISO ROPS and FOPS)
- Cabin (ISO ROPS and FOPS)
- Door interlock (applies brakes, blocks steering and bucket/boom movement when door opens)
- Open door retainer
- Side seated operator for bi-directional operation
- Air suspension seat with 2-point retractable seat belt

## Engine

| Brand / model | Cummins QSL9 | Cummins L9 |
|---|---|---|
| Emission regulation | EPA Tier 3/EU Stage IIIA/China Stage III | EPA Tier 4F/EU Stage V/ China Stage IV |
| Power rating | 186 kW @ 2 000 rpm | 213 kW @ 2 000 rpm |
| Maximum torque | 1 085 Nm @ 1 400 rpm | 1 636 Nm @ 1 500 rpm |
| MSHA Part 7 ventilation rate | 255 m³/min | 283 m³/min |
| MSHA Part 7 particulate index | 340 m³/min | 28 m³/min |

Dry type air filter with cyclone functionality, SCR, DPF, Diesel emission fluid system with separate tank/fill point including dosing pump and hoses/cables.
**Tier 4 F / Stage V:** Different after treatment system (dry type air filter, SCR, Diesel emission fluid system with separate tank/filling point including dosing pump and hoses/cables.)
* Please note! Require ultra low sulphur diesel and low ash engine oil

*MSHA = Mine Safety and Health Administration, USA. Ventilation rate = quantity of additional ventilation air required to dilute raw exhaust emission to a respective level per engine.
**Particulate Index = Calculated air flow for minimum diesel particulate matter (DPM) dilution to a safe level per engine.

## Fuel

| | |
|---|---|
| Fuel tank capacity | 284 liters |
| Fuel filtration, primary, including water trap | 7 µm |
| Fuel filtration, secondary | 3 µm |

Epiroc Scooptram loaders are compatible with HVO100

## Hydraulic system

| | | |
|---|---|---|
| System pressure | | 21.4 Mpa |
| Pump | | Heavy duty gear type pumps |
| Hydraulic tank capacity | Stage V | 232 litres |
| | Stage IIIA | 189 liters |
| Filtration, return line | | 10 µm |
| Steer cylinder | | 2x90 mm |
| Hoist cylinder | | 2x160mm |
| Stabillizer cylinder: | | 1x200 mm |

## Electrical system

| | |
|---|---|
| System voltage | start and accessories, 24/12V con-verteration) |
| Mine duty high output alternator | 140 Amps |
| Driving lights LED | 11x22 W |
| Isolation switch lockout | |

## Control system

- Audio-visual reverse alarm
- Joystick controls for dump and hoist and steering
- Bucket float

## Main frame

- Center hinge and boom lock up pins
- Central manual lubrication system
- Tool box

## Documentation

- Operator, service, and spare parts manual in English and other languages
- Hydraulic fill pump manual

## Digital products

- Fleet monitoring with Fleet•on My Epiroc
- Machine and fleet data via APIs

*Certain country restrictions may apply



# Technical specifications

## Stage V - grade performance

| Grade % | 0 | 2 | 4 | 6 | 8 | 10 | 12.5 | 14.3 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Grade | – | 1:50 | 1:25 | 1:16.7 | 1:12.5 | 1:10 | 1:8 | 1:7 | 1:6.3 | 1:5.6 | 1:5 |
| **Empty bucket (km/h)** | | | | | | | | | | | |
| 1st gear | 5.2 | 5.2 | 5.1 | 5 | 5 | 4.9 | 4.86 | 4.86 | 4.8 | 4.7 | 4.64 |
| 2nd gear | 9.3 | 9.1 | 8.7 | 8.6 | 8.53 | 8.4 | 8.1 | 7.9 | 7.65 | 7.2 | 6.9 |
| 3rd gear | 16 | 16 | 15.6 | 14.8 | 13.7 | 11.8 | 10 | 9.4 | 7.5 | 4.5 | – |
| 4th gear | 26.8 | 26 | 21.5 | 16.8 | 9.5 | – | – | – | – | – | – |
| **Loaded bucket (km/h)** | | | | | | | | | | | |
| 1st gear | 5.1 | 5.1 | 5 | 4.9 | 4.8 | 4.6 | 4.5 | 4.4 | 4.3 | 4.2 | 4.1 |
| 2nd gear | 9 | 8.7 | 8.6 | 8.5 | 8.1 | 7.8 | 7.5 | 7 | 6 | 5.4 | 5 |
| 3rd gear | 15.7 | 15 | 14.3 | 13 | 10.9 | 7.7 | 4.4 | 1.5 | – | – | – |
| 4th gear | 24 | 22 | 16.8 | 5 | – | – | – | – | – | – | – |

3% rolling resistance assumed, actual performance may vary depending on the application, Tier 4 final, Stage V engine with lock up engaged. Continuous operation is recommended on max. 1:7 grade.

## Stage IIIA - grade performance

| Grade % | 0 | 2 | 4 | 6 | 8 | 10 | 12.5 | 14.3 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Grade | – | 1:50 | 1:25 | 1:16.7 | 1:12.5 | 1:10 | 1:8 | 1:7 | 1:6.3 | 1:5.6 | 1:5 |
| **Empty bucket (km/h)** | | | | | | | | | | | |
| 1st gear | 5 | 4.8 | 4.8 | 4.7 | 4.6 | 4.5 | 4.4 | 4.3 | 4.2 | 4.1 | 4.1 |
| 2nd gear | 8.9 | 8.5 | 8.3 | 8 | 7.8 | 7.6 | 7.1 | 6.8 | 6.5 | 6.2 | 5.8 |
| 3rd gear | 15.8 | 14.7 | 13.8 | 12.8 | 11.6 | 10.2 | 7.9 | – | – | – | – |
| 4th gear | 26.7 | 23.3 | 18.9 | – | – | – | – | – | – | – | – |
| **Loaded bucket (km/h)** | | | | | | | | | | | |
| 1st gear | 4.9 | 4.8 | 4.8 | 4.8 | 4.4 | 4.3 | 4.2 | 4.1 | 4.0 | 3.9 | 3.7 |
| 2nd gear | 8.7 | 8.3 | 7.9 | 7.6 | 7.2 | 6.7 | 6.1 | 5.4 | 5.1 | 4.1 | – |
| 3rd gear | 15.1 | 13.9 | 12.4 | 10.6 | 8.2 | – | – | – | – | – | – |
| 4th gear | 24.9 | 19.1 | – | – | – | – | – | – | – | – | – |

## Buckets

| Type | Volume(m³) | Material density (t/m³) | | Width (mm) |
|---|---|---|---|---|
| | | Straight blade | Wearpac (GET) | |
| Straight blade and wearpact (GET) * | 5.6 | 1.8 | 1.8 | 2548 |
| | 5.0 | 2.0 | 2.0 | 2548 |
| | 4.5 | 2.2 | 2.2 | 2548 |
| | 4.2 | 2.4 | 2.4 | 2548 |
| | 3.8 | 2.6 | 2.6 | 2548 |
| | 3.6 | 2.8 | 2.8 | 2548 |
| | 3.3 | 3.0 | 3.0 | 2548 |
| EOD straight blade | 4.5 | 2.0 | - | 2548 |
| | 4.2 | 2.2 | - | 2548 |
| | 3.8 | 2.4 | - | 2548 |
| | 3.6 | 2.6 | - | 2548 |
| | 3.3 | 2.8 | - | 2548 |
| | 3.0 | 3.0 | - | 2548 |

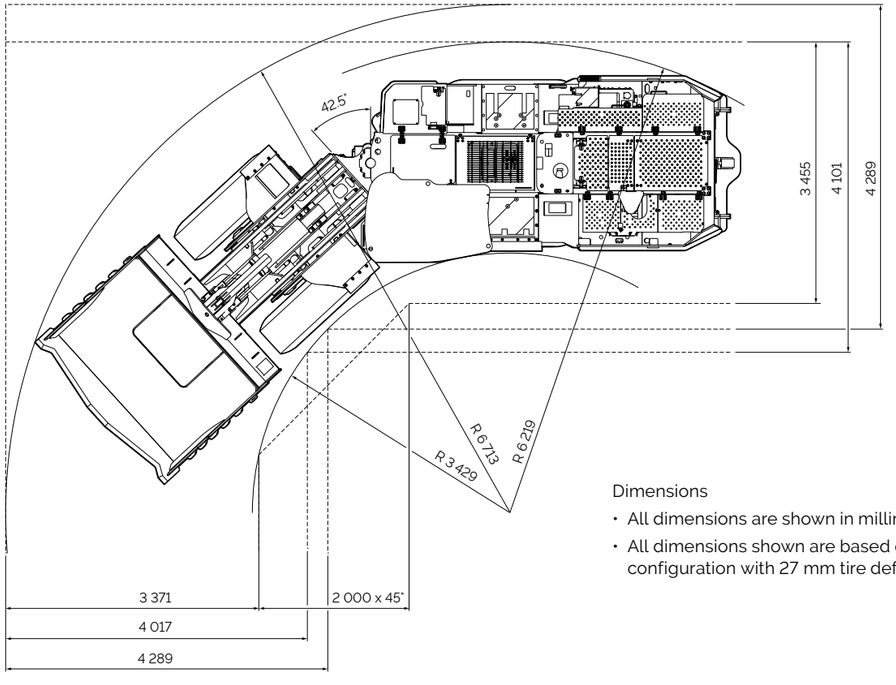
*Wearpact (GET)is optional



# Technical specifications - Stage V engine configuration

## Measurements and weights

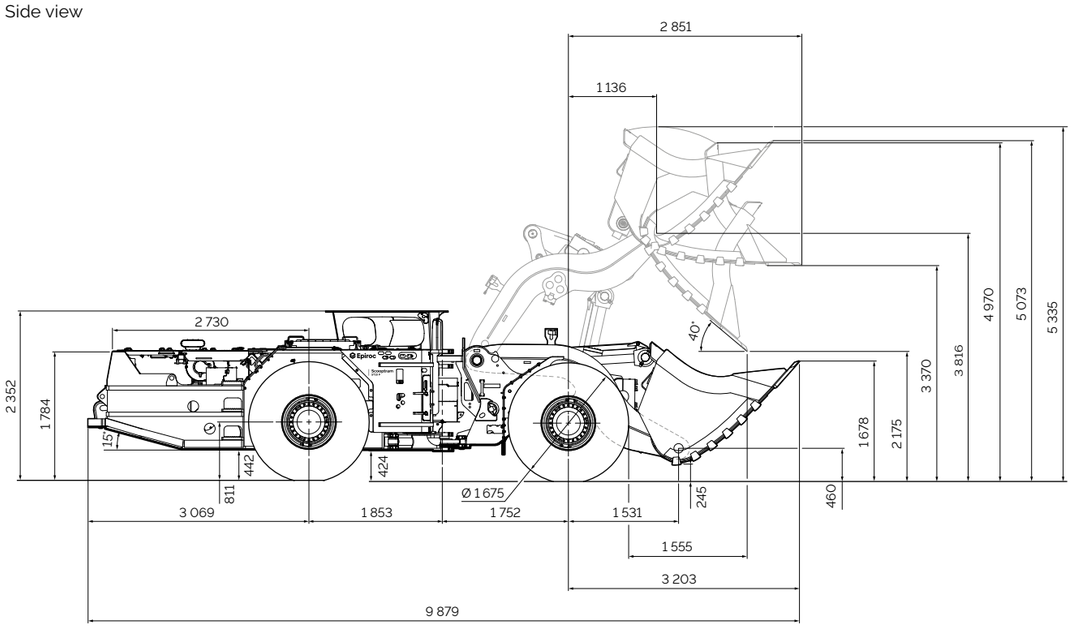
Turning radius




Dimensions

- All dimensions are shown in millimetres
- All dimensions shown are based on standard vehicle configuration with 27 mm tire deflection, unloaded

Side view

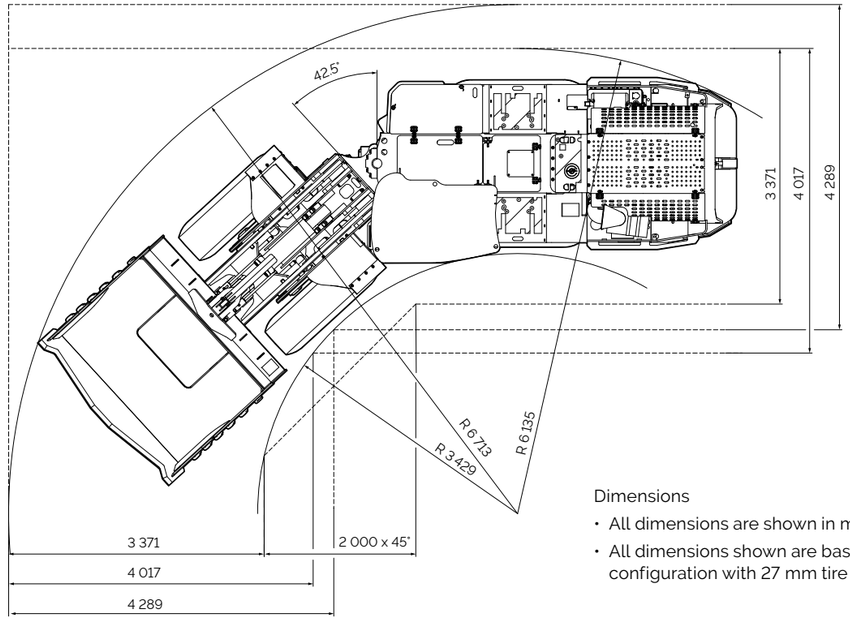





# Technical specifications - Stage IIIA engine configuration

## Measurements and weights

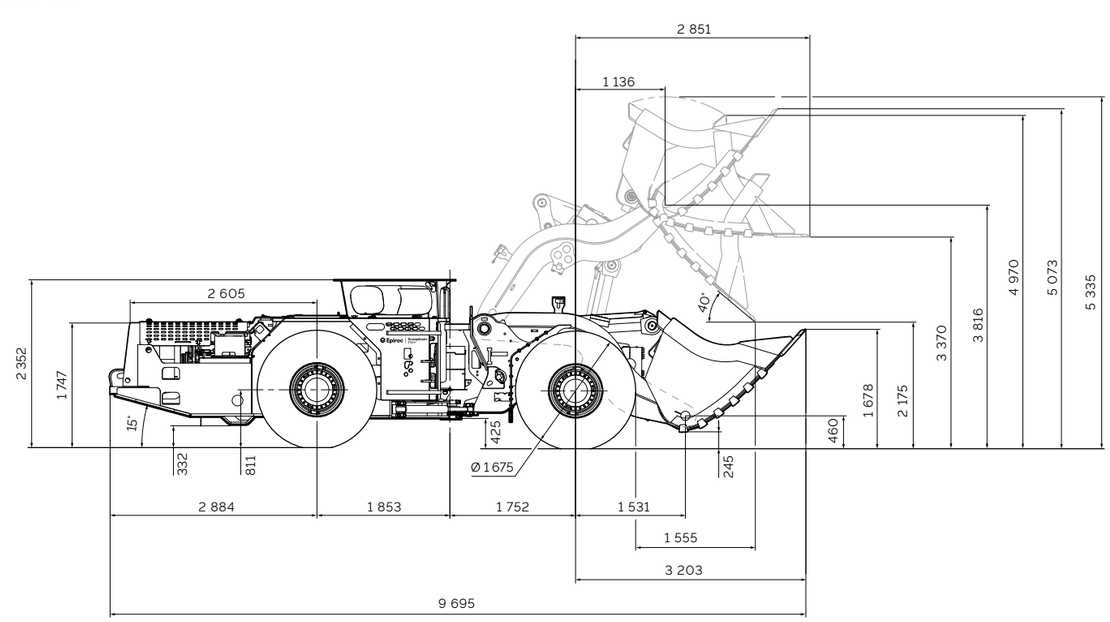
Turning radius




Dimensions

- All dimensions are shown in millimetres
- All dimensions shown are based on standard vehicle configuration with 27 mm tire deflection, unloaded

Side view



# Technical specifications



## Options

### Brakes

- Brake apply after 3 sec in neutral
- Brake release retriever tow hook

### Operator's compartment

- Cabin with automatic climate control, pressurized with filtrered air (ISO ROPS and FOPS)

### Hydraulic system

- Secondary steering(required for CE)
- Electric pump for hydraulic tank fill, 24 V
- Arctic oil

### Control system

- Rear camera
- Ride control (boom suspension)

### Electrical system

- Detachable service light (required for CE)

### Documentation

- Operator manual - paper
- Spare parts manual - paper

### Automation

- Scooptram Radio Remote Control interface
- Scooptram Radio Remote Control

### Main frame

- EOD ejector bucket
- GET Ground engagement tools
- Wheel chocks and brackets
- Knockdown construction
- Central automatic lubrication system
- Wiggins fast fuel fill
- Wiggins fast hydraulic oil fill
- Hand held fire extinguisher
- Ansul manually activated fire suppression
- Ansul checkfire automatically activated fire suppression system
- Corrosion resistant radiator
- Foldable guard rail (required for CE approved vehicles)

**Cold weather package 230 V**

- Block heater
- Battery warmer
- Fuel heater
- Hydraulic oil heater
- Transmission oil heater

### Parts and services

- Preventive maintenance kits
- Repair and rebuild kits
- Upgrade kits
- Operators training in simulator



# Perfect match - Minetruck MT33

Minetruck MT33 is a high-capacity 33-tonnes underground truck for medium to large drifts. Built on years of experience and based on the reliable Minetruck MT436, it brings lots of improvements in areas such as safety, productivity, reliability and operator comfort. It combines high ramp speeds with a low profile and robust design to make your operations efficient and dependable - so you can haul in big style.



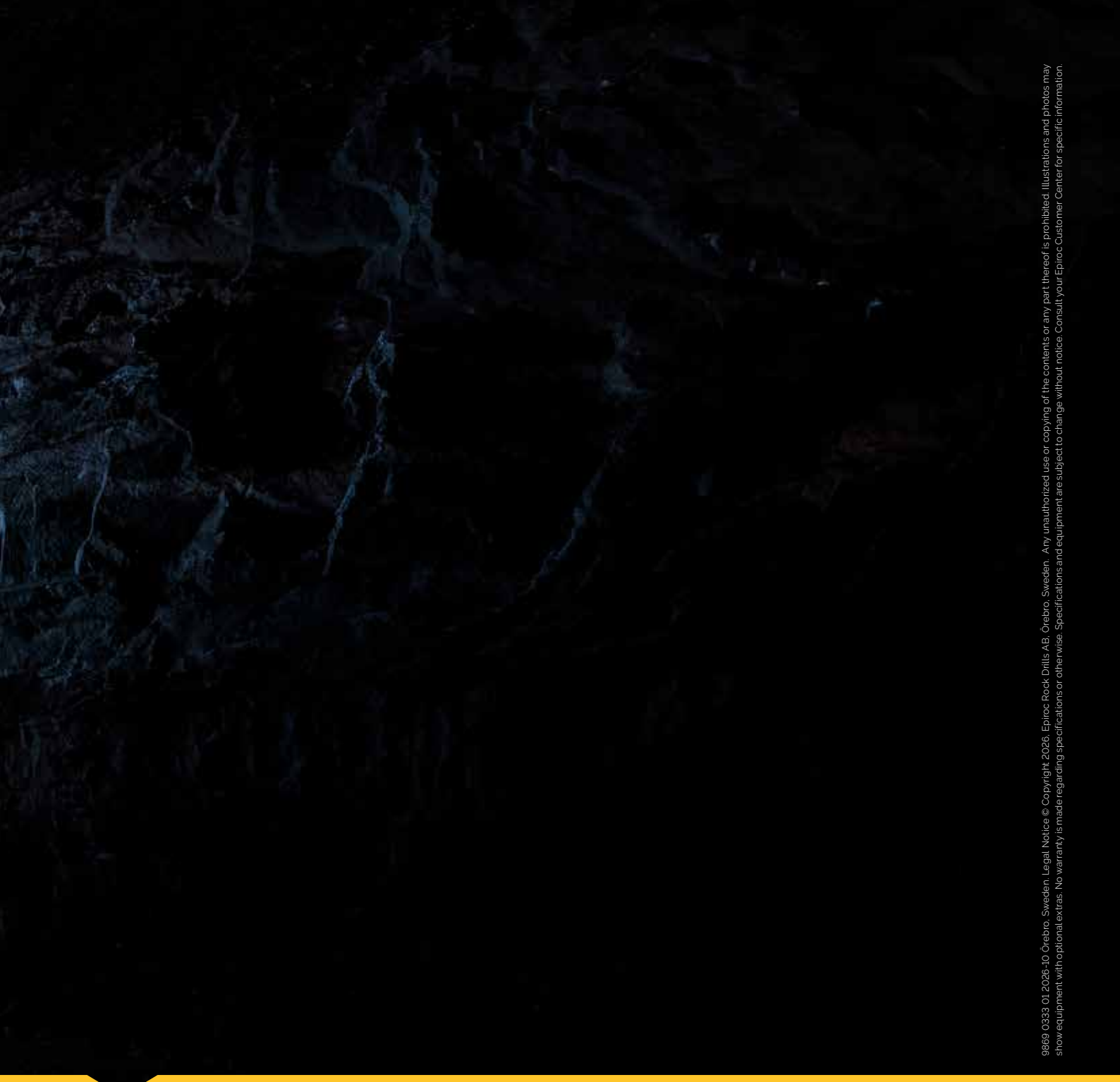

## Engine

| Standard | |
|---|---|
| Brand/model | Cummins QSM11 EPA Tier 3 |
| Power rating | 298 kW/400 hp @ 2100 rpm |
| Maximum torque | 1 898 Nm @ 1 350 rpm |
| MSHA Part 7 ventilation rate | 396 $m^3$/min |
| MSHA Part 7 particulate index | 311 $m^3$/min |

**Tier III/EU Stage IIIA**: Dry type air filter, catalytic purifier and silencer, exhaust heat protection, cooling package with tube type radiator, remote engine oil and cooling fuel drain. Cooling package with V core tube type radiator.

## Specifications

| Capacities | |
|---|---|
| Tramming capacity | 32 650 kg |
| **Motion times** | |
| Dumping | 14 sec |
| **Weights (standard equipped vehicle, empty weight)** | |
| Approximate weight | 30 600 kg |
| Axle load, front end | 20 500 kg |
| Axle load, rear end | 10 100 kg |
| **Weights (standard equipped vehicle, loaded weight)** | |
| Approximate weight | 63 250 kg |



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