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.



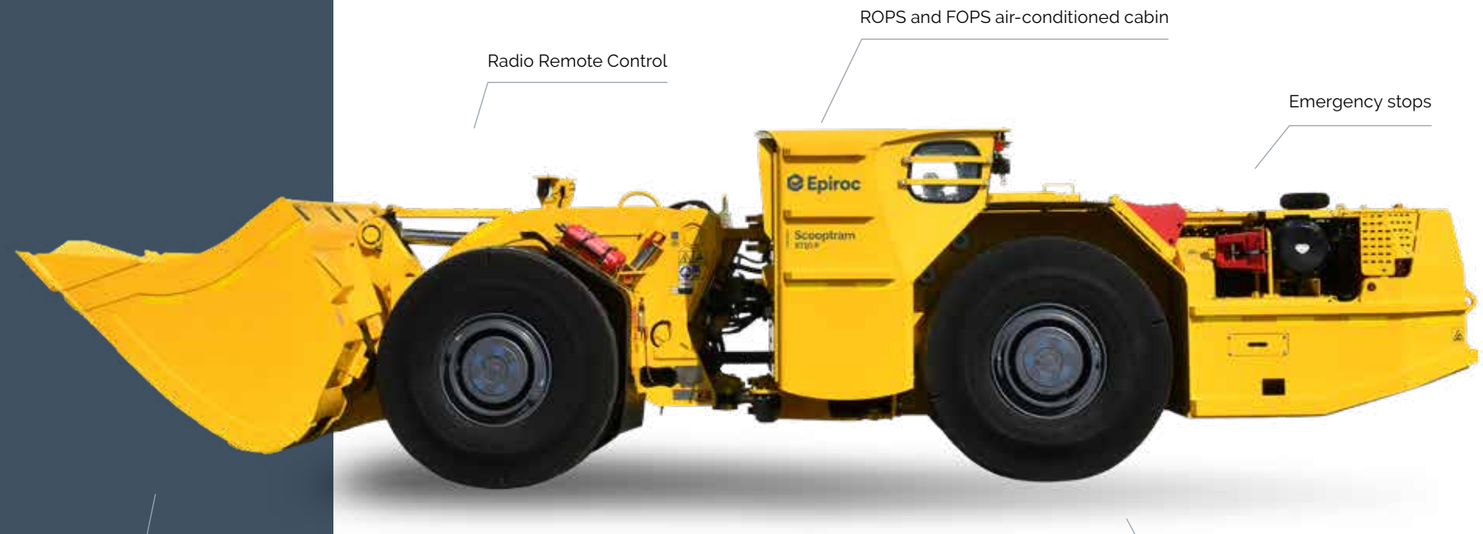
Scooptram ST10 P is now available with Stage V engine option, designed to deliver higher power and torque while reducing harmful emissions through an advanced aftertreatment system



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

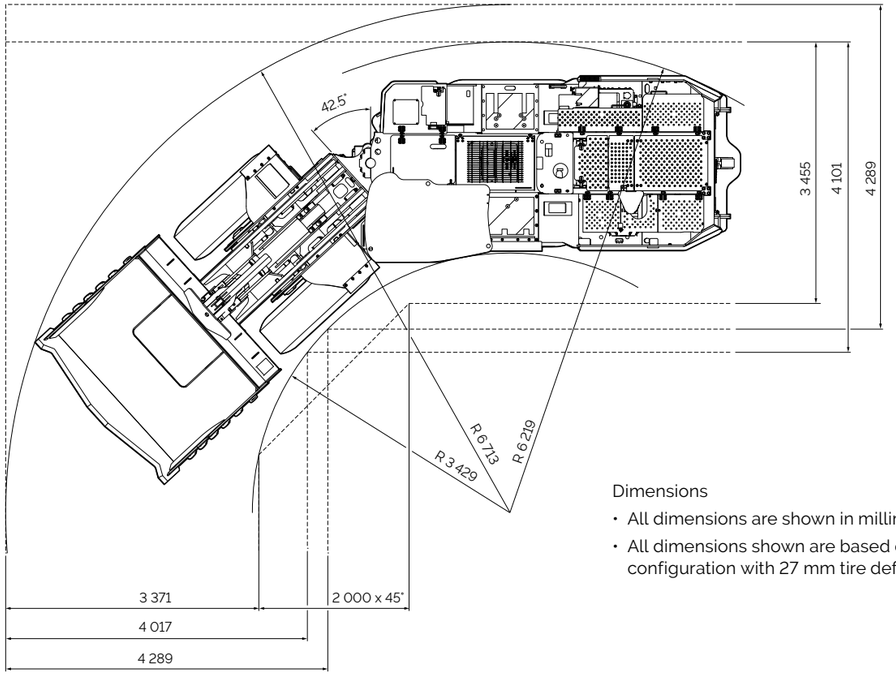
*Wearpact (GET)is optional



Technical specifications - Stage V engine configuration

Measurements and weights

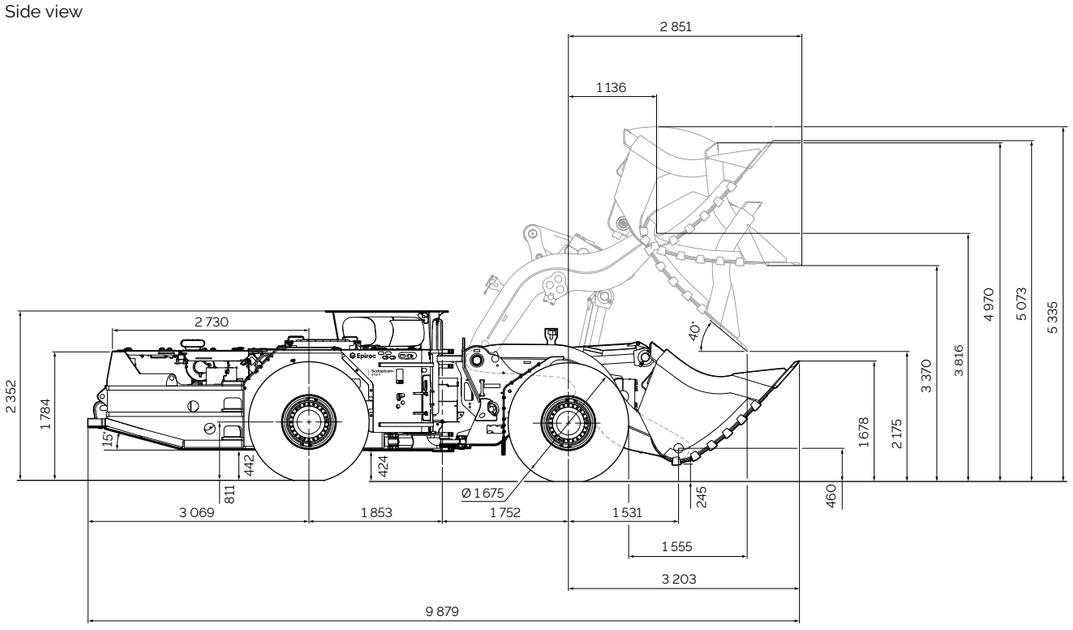
Turning radius



Dimensions

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

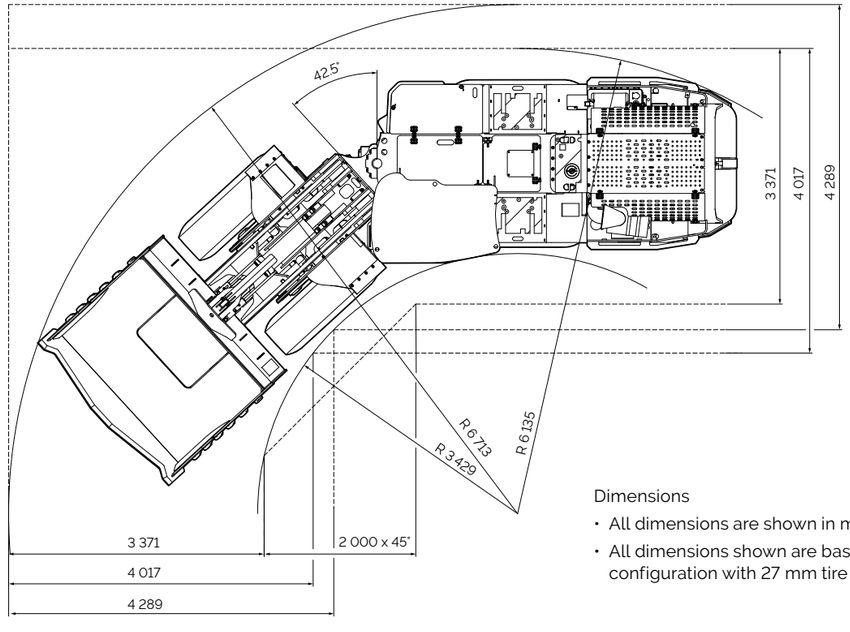
Side view



Technical specifications - Stage IIIA engine configuration

Measurements and weights

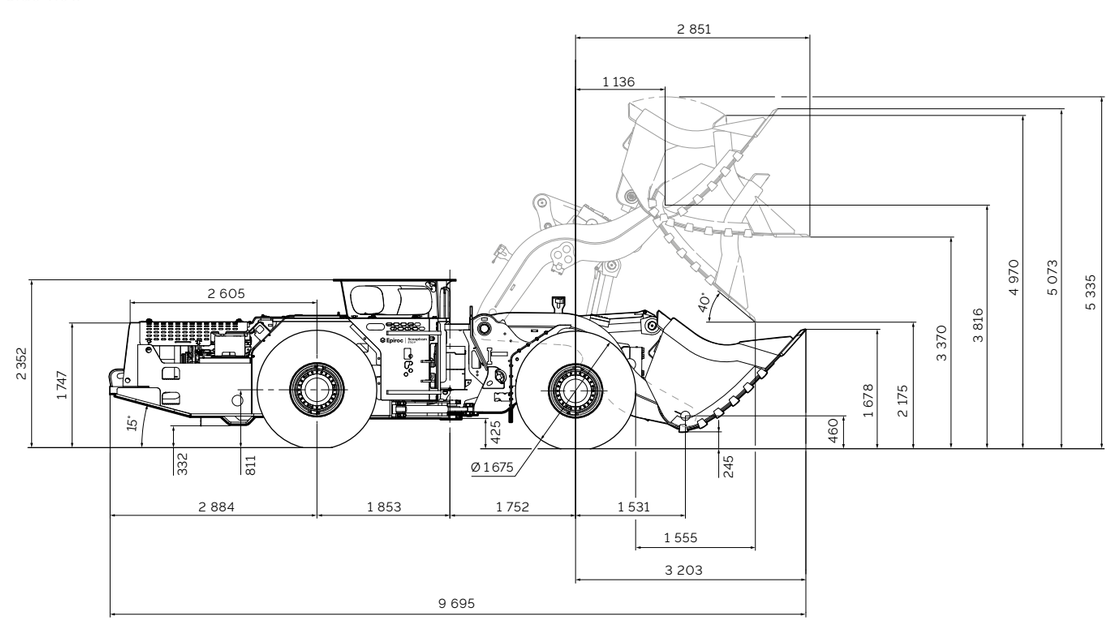
Turning radius



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.



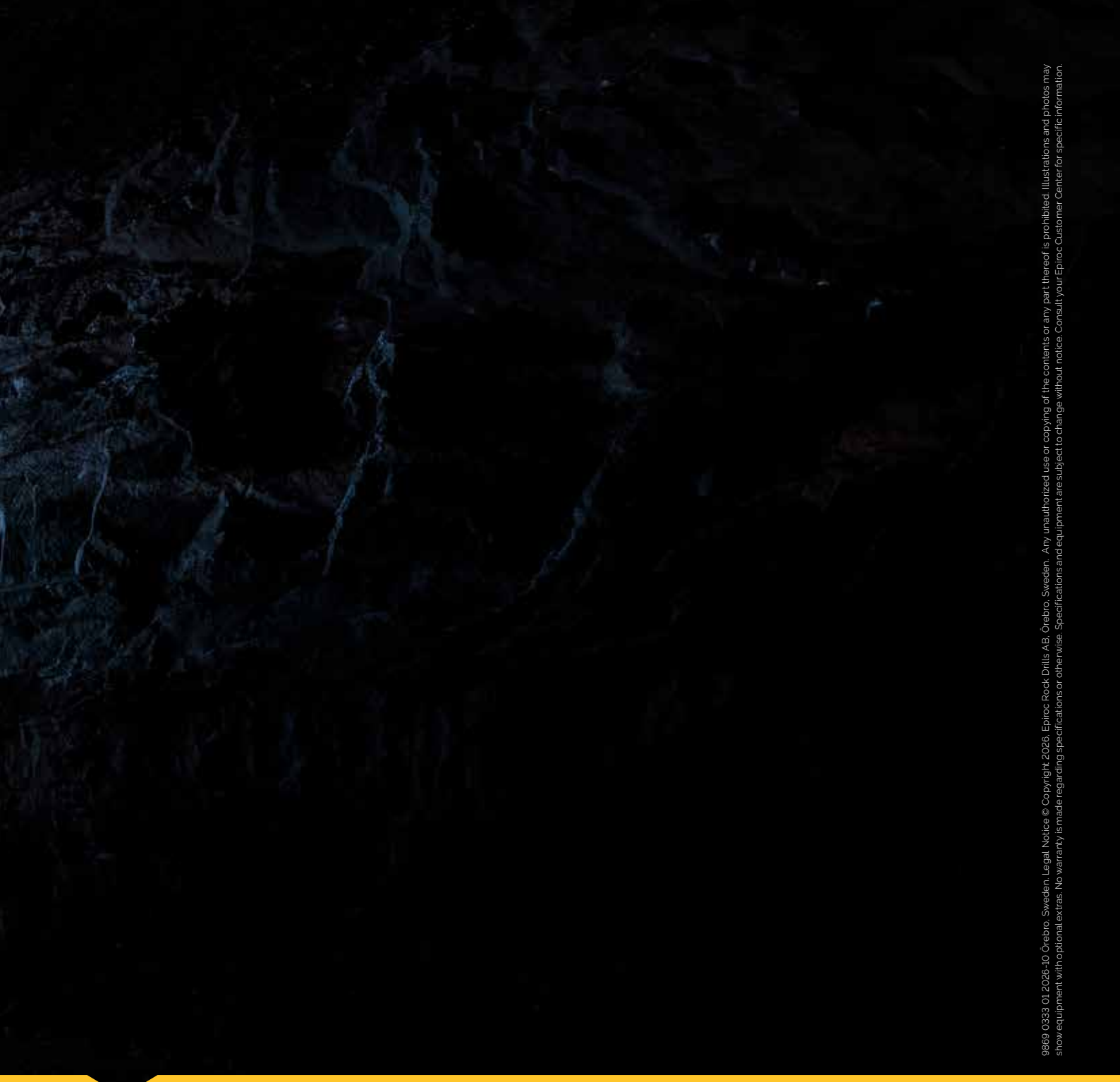
Engine

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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