Scooptram ST10 P L

Low-profile underground loader with 10-tonne capacity

Epiroc



Robust and reliable low profile loader

Scooptram ST10 P L, the low-profile version of the Scooptram ST10 P, is Epiroc's 10-tonne-capacity underground loader purpose-built for narrow, low-profile mines, typically with tunnel heights of around two metres. With an updated design, enhanced serviceability and hydraulics, compliance with the latest CE standards, and a Stage V engine option, the Scooptram ST10 P L delivers increased safety, productivity, and reliability for underground operations.



Epiroc's unique footbox design ensures maximum comfort and a natural driving position, supporting high productivity and operator well-being.



The patented GET system (Ground Engaging Tool) optimizes muck pile penetration and increase the bucket wearlife.



The boom and bucket design, combined with an automatic declutch function, enables the Scooptram ST10 P L to perform easy and efficient mucking in both mine production and mine development applications.



Main benefits

Safety first The updated design, combined with a range of standard safety features and CE certification, helps ensure a safe working environment for Scooptram ST10 P L operators.

Reliability Scooptram ST10 P L delivers reliable underground performance through its upgraded design, featuring enhanced frame materials for increased durability and strength, as well as the repositioning of key components.

Outstanding productivity The new stage V engine option in combination with the balanced machine weight provide high productivity and fuel efficiency.

Reliable and ideal choice for low seam mines

Scooptram ST10 P L brings the reliable Scootpram ST10 P in low-profile drifts. Sharing the same platform and architecture, this low-profile version makes sure mining operations will experience outstanding productivity, safety and reliability.



+ Safety

Scooptram ST10 P L has been upgraded to meet the safety requirements of the CE certification. This means that six major safety functions have been implemented, tested and validated. Among them are the braking system safety, steering system safety, prevention of unintended movement, emergency stop integration, control deactivation with door opening, fire suppression system engine shut down.



+ Easy maintenance

Several key components have been repositioned to enable easier access and more efficient service. These include the steering priority valve, wheel chocks, engine, urea pump, fuel and engine filters, and the transmission oil sensor. In addition, the rear frame design has been updated to provide improved access and simplify maintenance.



+ Smart control

Scooptram ST10 P L can be equipped with smart tools such as Fleet+ and Radio Remote Control (RRC) to enhance data visualization and support a safer, and more productive operation. Fleet+ enables monitoring of machine status and helps ensure the unit is operated to its full potential, while RRC allows safe operation in hazardous or unstable tunnel conditions.



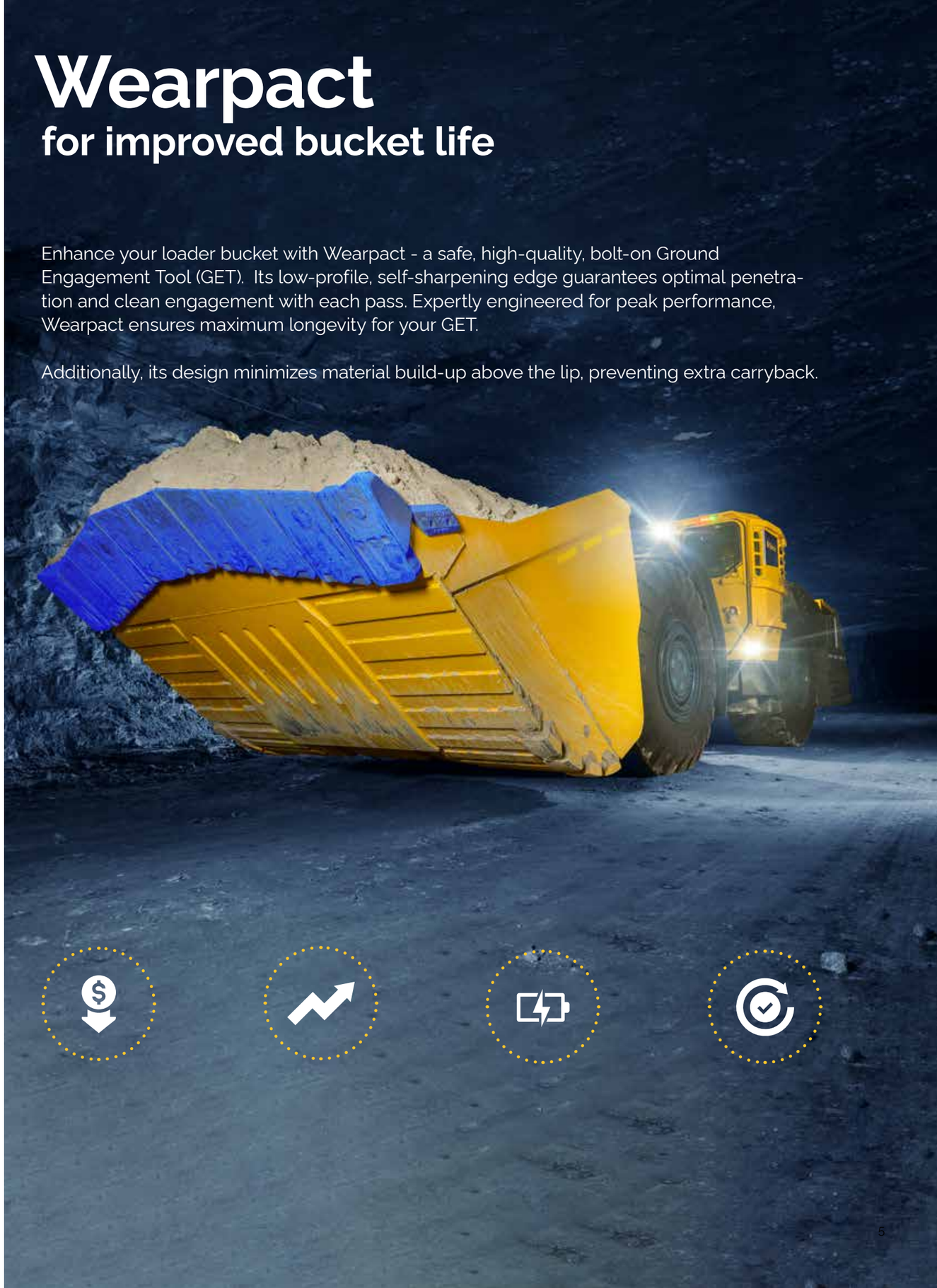
A comprehensive service offering

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
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.



Technical specifications

Specifications

Capacities	
Tramming capacity*	10 000 kg
Breakout force, hydraulic	17 900 kg
Breakout force, mechanical	13 900 kg
Standard bucket	4.5 m³
Motion times	
Boom raising	8 sec
Boom lowering	6 sec
Dumping	2.1 sec
Weights (standard empty machine)	
Approximate weight	27 200 kg
Axle load, front	13 700 kg
Axle load, rear	13 500 kg

Sound and vibration

Closed cabin	
Sound level according to ISO 6394 LpA	85 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	126 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
- Degree of rear axle oscillation: 16° (8° on each side)
- Differentials: front, limited slip
- Differentials: rear, no spin

Transmission

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

Brakes

- Fully enclosed, force-cooled, multiple wet discs at each wheel end
- Service/parking/emergency brakes: SAHR

Tires

- Tubeless tire design for underground mine service
- Tire size front and rear: 18.00R25 (slicks)
- Tire size front and rear: 18.00R25 (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)
- 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

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.

Tier 4 final/EU Stage V: Different engine, coolers, different after-treatment systems (dry type air filter with cyclone functionality, SCR, DPF, Diesel emission fluid system with separate tank/fill point including dosing pump and hoses/cables).

Please note! Requires ultra-low sulfur diesel and low ash engine oil.

Fuel

- Fuel tank capacity: 284 litres
- Fuel filtration, primary, including water trap: 7 µm
- Fuel filtration, secondary: 3 µm
- Epiroc Scooptram loaders are compatible with HVO100

Hydraulic system

- Heavy duty gear type pumps
- System pressure 21.4 MPa

Hydraulic tank capacity	EU stage IIIA	189 liters
	Eu stage V	232 liters

- Filtration, return line: 10 µm
- Steering cylinders: chrome plated stems, 2x90 mm diameter
- Hoist cylinders: chrome plated stems, 2x160 mm diameter
- Stabillizer cylinder: chrome plated stems, 1x200 mm diameter

Electrical system

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

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

Digital products

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

*Certain country restrictions may apply

Documentation

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

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	5.9	4.4	–	–
4th gear	26.7	23.3	18.9	12.7	–	–	–	–	–	–	–
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	3.3
3rd gear	15.1	13.9	12.4	10.6	8.2	–	–	–	–	–	–
4th gear	24.9	19.1	–	–	–	–	–	–	–	–	–

Buckets

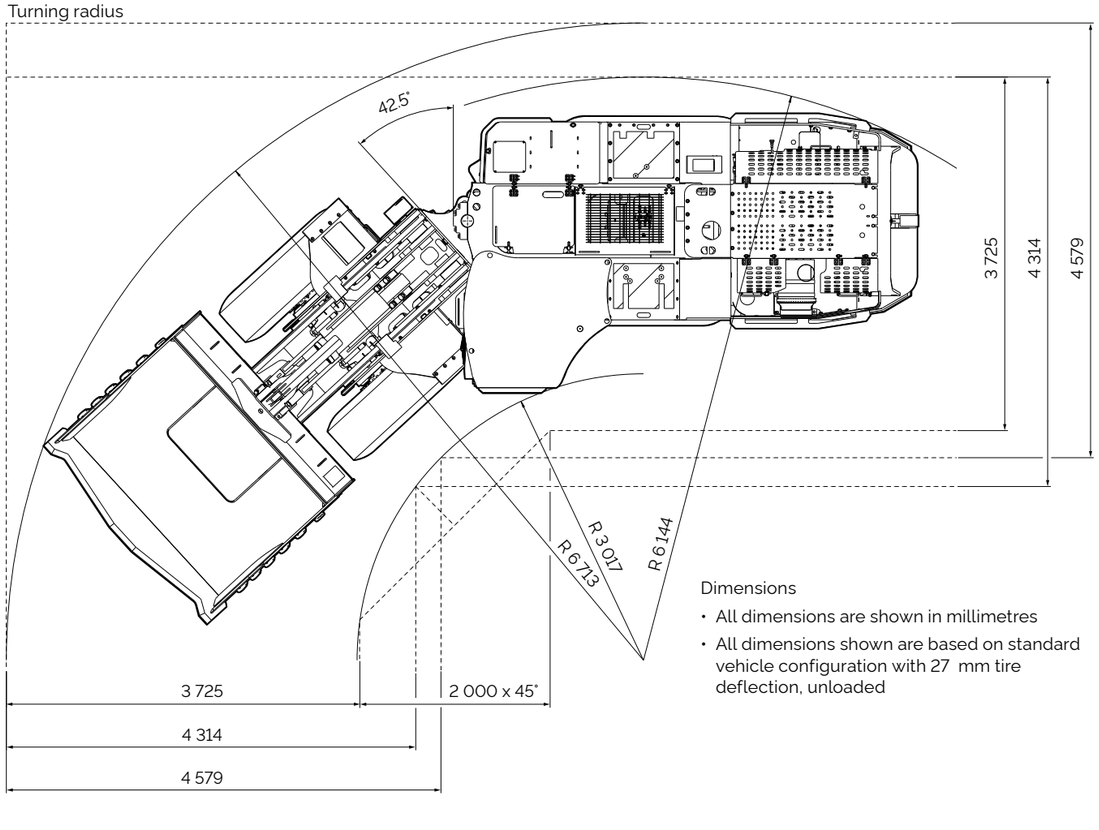
Type	Volume(m³)	Material density (t/m³)		Width (mm)
		Straight blade	Wearpac (GET)	
Straight blade and Wearpact (GET)	5.6	1.8	1.8	2548
	5.0	2.0	2.0	2548
	4.5	2.2	2.2	2548
	4.2	2.4	2.4	2548
	3.8	2.6	2.6	2548
	3.6	2.8	2.8	2548
	3.3	3.0	3.0	2548

*Wearpact (GET) is optional



Technical specifications - EU stage IIIA

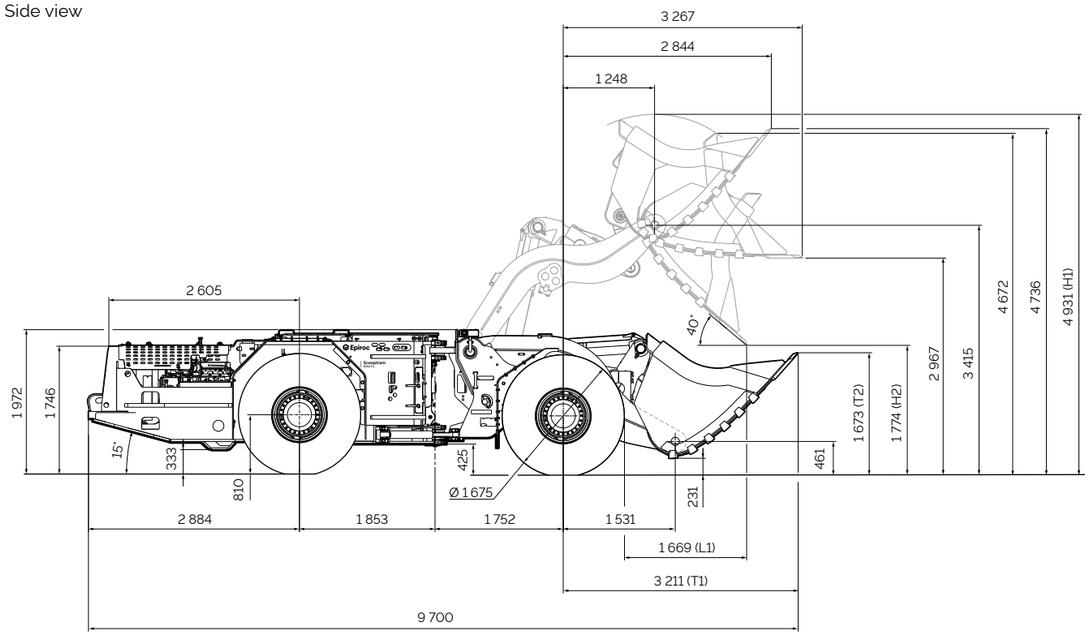
Turning radius



Dimensions

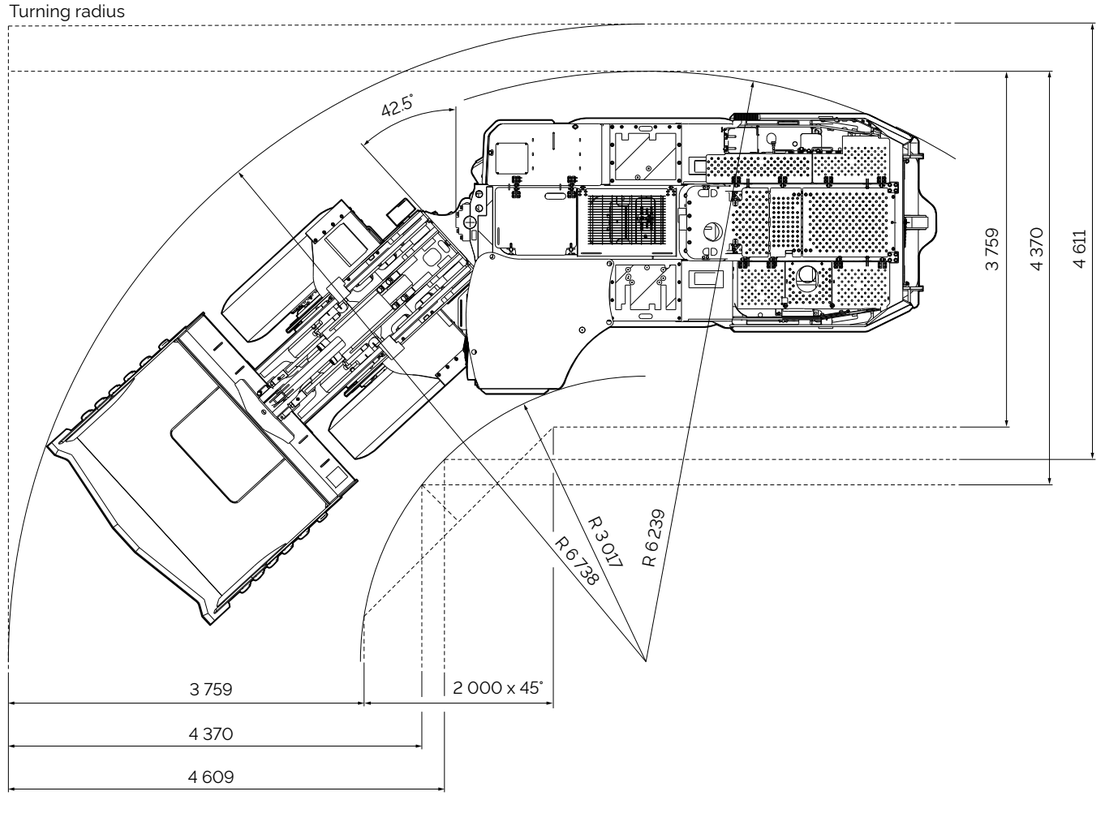
- All dimensions are shown in millimetres
- All dimensions shown are based on standard vehicle configuration with 27 mm tire deflection, unloaded

Side view

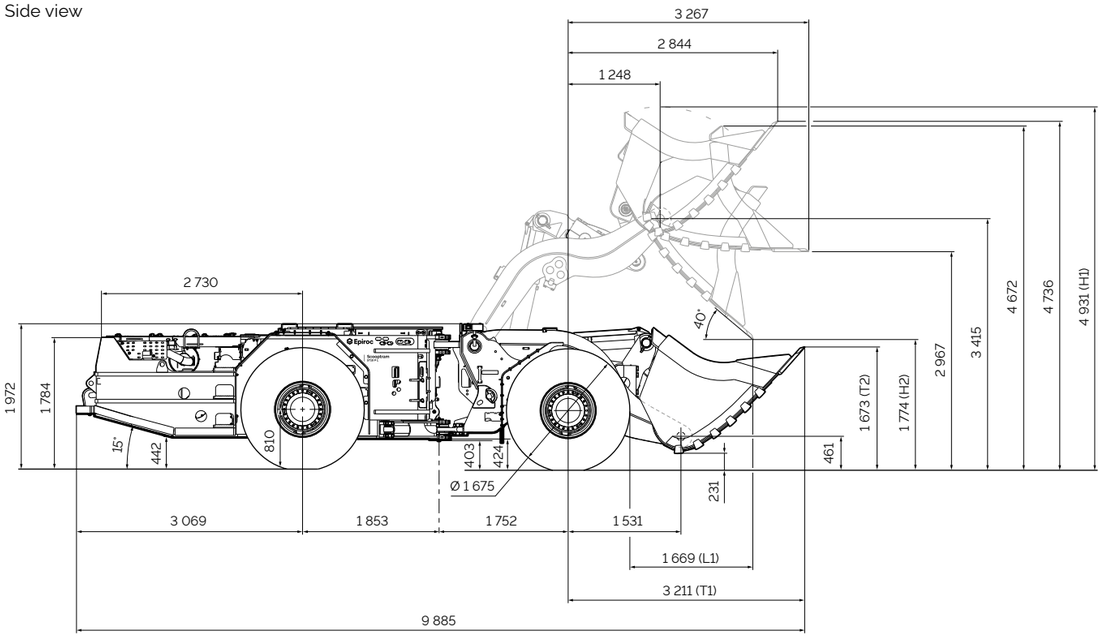


Technical specifications - EU stage V

Turning radius



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)

Automation

- Scooptram Radio Remote Control interface
- Scooptram Radio Remote Control

Documentation

- Operator manual - paper
- Spare parts manual - paper

Main frame

- Ansul manually activated fire suppression(required for CE)
- Ansul checkfire automatically activated fire suppression system
- 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
- Corrosion resistant radiator
- Foldable guard rail (required for CE approved vehicles)

Parts and services

- Preventive maintenance kits
- Repair and rebuild kits

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
Optional	
Brand/model	Cummins X12 Tier 4 final /EU Stage V
Power rating	298kW 400hp @ 2100
Maximum torque	1898 @ 1400 rpm

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.
Tier 4 final/EU Stage V: Different engine, different after-treatment systems , SCR, DPF, Diesel emission fluid system with separate tank/fill point including dosing pump and hoses/cables).
Please note! Requires ultra-low sulfur diesel and low ash engine oil.

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



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