

Scooptram ST10 G

Fully battery-electric loader with 10 tonne capacity



Ideal choice for underground mucking

Built for demanding underground midsize mining applications, the compact and highly productive, battery-electric Scooptram ST10 G gives you the ability to work in tough conditions without exposure to diesel particulates and toxic gases.



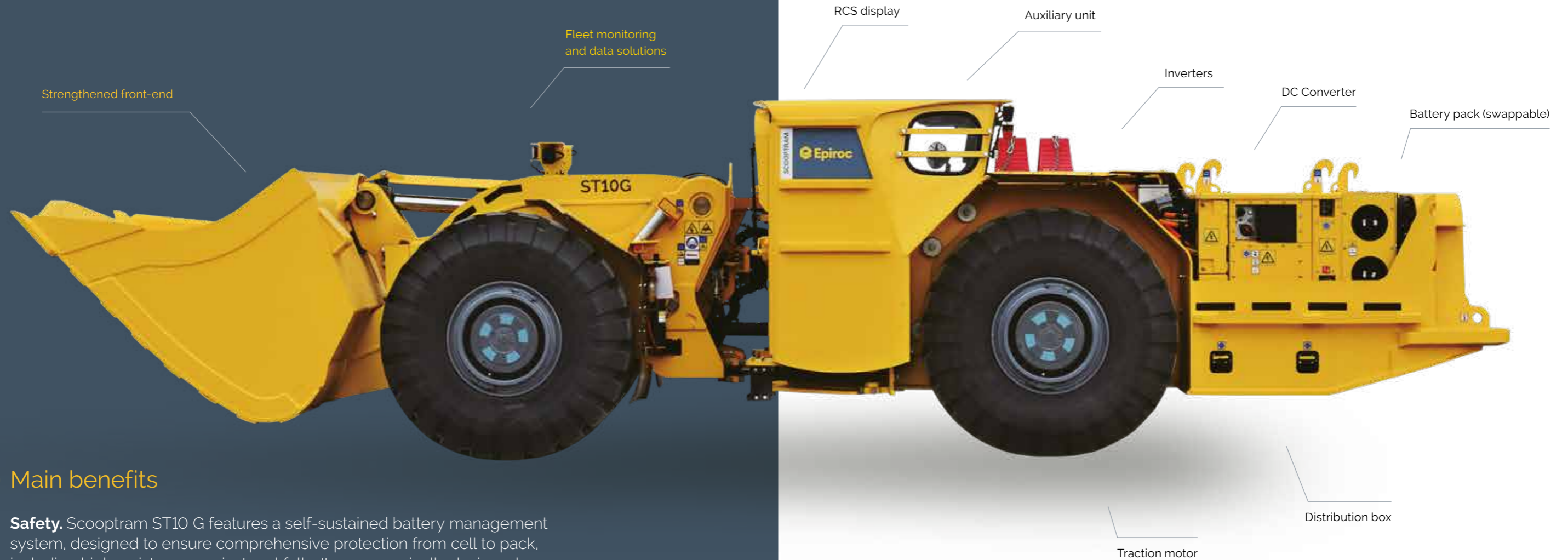
More efficient drivetrain with dedicated motors for traction and auxiliary, ensuring power when you need it.



High-energy battery pack enables long driving cycles for the needed application. Certified for global market.



Type (combo) 1 or 2 for Combined Charging System (CCS) connectors. Charging anywhere in the mine both on-board and off-board.



⊕ Main benefits

Safety. Scooptram ST10 G features a self-sustained battery management system, designed to ensure comprehensive protection from cell to pack, including high resistance against rockfalls. Its ergonomically designed, FOPS/ROPS-certified cabin, combined with built-in machine safety control functions, enhances safety for both operators and the overall operation.

Electrification. Heat is reduced by up to 80% and noise levels are significantly lowered compared to diesel machines, providing a safer and more operator-friendly work environment.

Outstanding productivity. Separate motors for hydraulics and traction, combined with the electric drivetrain, deliver high productivity, surpassing diesel machines in most applications.

Part of the Green series

The Scooptram ST10 G underground loader is now part of the Green series (G). Powered by an electric drive and battery, it emits no exhaust gases during use, ensuring a cleaner and safer underground work environment.

Experience the power of electrification in a compact design

The Scooptram ST10 G, a fully battery-electric loader, improves underground working conditions by eliminating exhaust gases and diesel particulate matter. It also lowers heat and noise levels, making it ideal for mines with constrained infrastructure and ventilation.



+ Comfortable work environment

Electrification eliminates workforce exposure to diesel particulates and toxic gases, including nitrogen oxides (NOx), hydrocarbons (HC), and carbon monoxide (CO). Battery-electric loaders also require less ventilation while ensuring a comfortable working environment.



+ Powerful drivetrain

The Scooptram ST10 G is equipped with two dedicated motors: one for traction and the other for hydraulic functions. Trimming is driven by a high-performance traction motor paired with an efficient transmission system. Hydraulic operations are powered by an independent auxiliary motor, ensuring hydraulic power is delivered precisely when needed.



+ Easy maintenance and cost savings

Fewer moving components and a simpler structure result in reduced parts consumption and lower operational costs. Additionally, this minimizes costs related to ventilation, cooling, and operators' health.



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

Specifications

Capacities	
Tramming capacity	10 000 kg
Breakout force, hydraulic	17 900 kg
Breakout force, mechanical	13 900 kg
Tramming capacity with EOD bucket 9 000 kg	
Motion times	
Boom raising	8.5 sec
Boom lowering	7.0 sec
Dumping	2.3 sec
Weights (standard empty vehicle)	
Approximate weight	29 800 kg
Axle load, front end	11 900 kg
Axle load, rear end	17 900 kg

Motors

	Traction	Auxiliary
Brand/model	ABB	Parker
IP	IP65	IP65
Nominal power (kW)	170	72
Nominal alternating voltage (VAC)	400	400
Cooling	Liquid cooled	Liquid cooled

Axles

Brand/model: Kessler D102
Degree of oscillation(total): 16° (on each side 8°)
Differentials: Front, limited slip
Differentials: Rear, no spin

Transmission

Transmission: Kessler W280 Single reduction gear box
Hyd. Transmission: Twin disc pump drive

Tires

Tubeless tire design for underground mine service*
* As applications and conditions vary, Epiroc recommends the user consults with tire suppliers to obtain the optimum tire selection.

Operator's compartment

Cabin with automatic climate control, pressurized with filtered air (ISO ROPS and FOPS)
Door interlock (applies brakes, blocks steering and bucket/boom movement when door opens)
Side seat operator for bi-directional operation and maximum visibility
Air seat suspension seat with 2-point retractable seat belt
External sound level according to ISO 6393 LwA 107 dB(A)
Sound level in cabin according to ISO 6394 LpA 81 dB(A)
Whole body vibration value according to below EN 14253 A(8)w maximum 0.5-1.5 m/s ²

Control system

Epiroc RCS display with intuitive interface and integrated BMS information
Machine status indicator light
Audio-visual reverse alarm
Joystick controls for dump, hoist and steering
Brake test function
Emergency stops

Electrical system

System voltage: start and accessories 24V, with 24/12V converter
DC/DC converter
Working light LED: 10X1 400 lumen

Inverter

Brand/model	ABB
IP	IP67
Max voltage (VDC)	850
Cooling	Liquid cooled

Battery pack

Chemistry	Li-Ion NMC
Number of sub-packs	3
Usable capacity (Kwh)	225Kwh
Cell cooling	Liquid cooled
Thermal management	Integrated
Operating ambient temperature	0°C to 40°C
Charging contact	CCS type 1 or 2
Charging source	External charger
On-board battery with off-board charger	Yes
Off-board battery with off-board charger	Yes, battery swap
Minimum charging time 0-90%	50 min
Weight	3 200 kg

Hydraulic system

Heavy duty gear type pumps
System pressure 21.4 MPa
Hydraulic tank capacity 189 liters
Filtration, return line: 10 µm
Manual hydraulic fill pump
Steer cylinders: chrome plated stem, 2X90 mm diameter
Hoist cylinders: chrome plated stems, 2X160 mm diameter
Tilt cylinder: chrome plated stem, 1X200 mm diameter

Brakes

Type	Fully enclosed, force-cooled, multiple wet discs at each wheel end
Service brake	Regenerative braking (SAHR)
Park brake/emergency brake	SAHR

Main frame

Center hinge and boom lock up pins
Central manual lubrication system
Manual hydraulic fill pump

Documentation

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

Hydraulic system

- Electric hydraulic fill pump
- Brake release retriever tow hook

Control system

- Ride control (Boom suspension)
- Emergency steering required for CE approved vehicles
- Neutral brake apply, NBA
- Load weighing system - Loadrite

Tires

- Tire size front and rear: 18.00 R25 (slicks)
- Tire size front and rear: 18.00 R25 (treaded)

Parts and services

- Preventive maintenance kit
- Repair and rebuild kits

Electrical system

- Battery jump start receptacle
- Detachable service light (required for CE)

Main frame

- Wheel chocks and chock brackets
- EOD ejector bucket
- GET - Ground Engagement Tool
- Automatic central lubrication system
- Hand held fire extinguisher
- Ansul fire suppression with manual release
- Ansul CheckFire fire suppression automatic release
- Corrosion resistance radiator
- Wiggins Fast Fill for transmission and hydraulic oil
- Knock-down construction

Digital products

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

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.



Reduced bucket repair costs



Up to 40% increased wearlife



Increased machine availability



Continuous operation with fast and easy service



All the power you need

We offer Batteries as a Service (BaaS) which eliminates the risks of owning batteries. The solution provides all the benefits of electrical power. We take the responsibility for the batteries, from certification to maintenance plus technology upgrades, using a truly circular business model that provides the battery operation as a service.

Technical specifications

Grade performance

Standard configuration, empty bucket

%	Grade	0.0	2.0	4.0	6.0	8.0	10.0	12.5	14.3	16.0	18.0	20.0	25.0
Ratio	Grade	-	1:50	1:25	1:16.7	1:12	1:10	1:8	1:7	1:6.3	1:5.6	1:5	1:4
Km/h	EVM Speed	15	15	15	15	15	14.0	11.8	10.8	9.7	8.8	8.0	6.6

3% rolling resistance assumed. Actual performance may vary depending on the application. Continuous operation is recommended on maximum 1:7 grade.

Grade performance

Standard configuration, loaded bucket

%	Grade	0.0	2.0	4.0	6.0	8.0	10.0	12.5	14.3	16.0	18.0	20.0	25.0
Ratio	Grade	-	1:50	1:25	1:16.7	1:12	1:10	1:8	1:7	1:6.3	1:5.6	1:5	1:4
Km/h	GVW Speed	15	15	15	15	12.5	10.5	8.9	8.1	7.2	6.6	6.0	4.9

3% rolling resistance assumed. Actual performance may vary depending on the application. Continuous operation is recommended on maximum 1:7 grade.

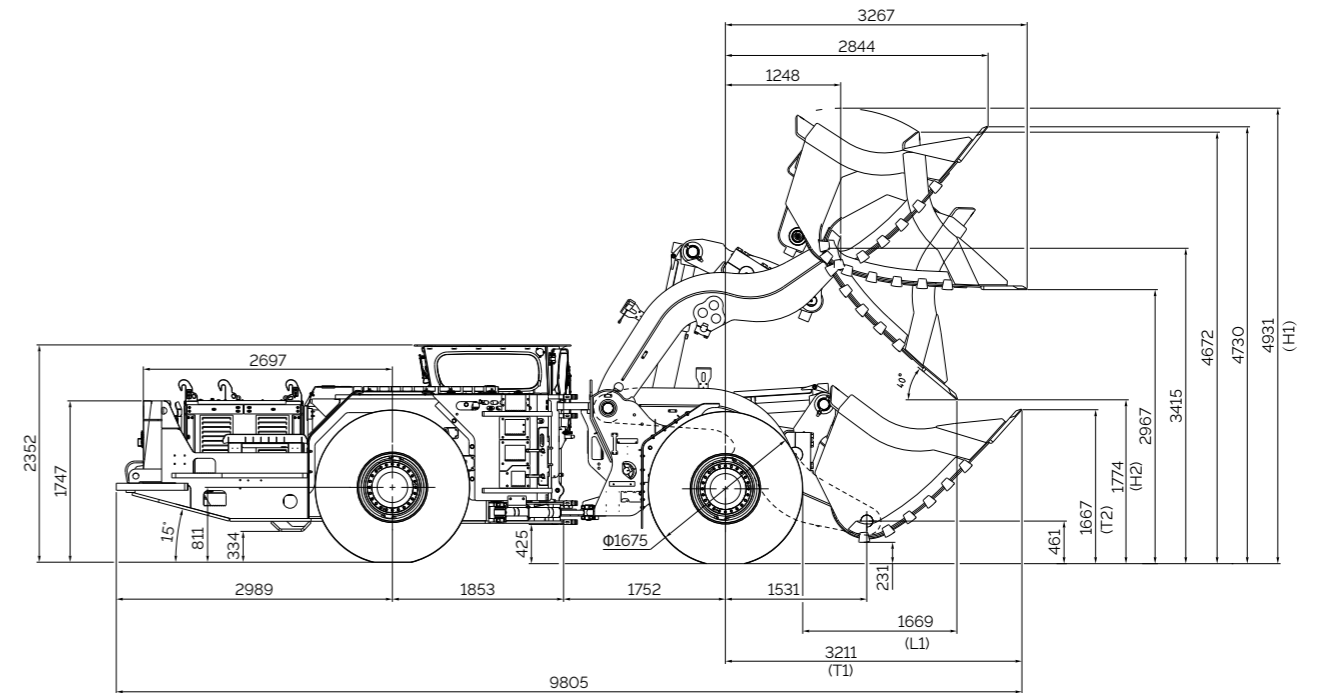
Bucket data

		Standard						EOD					
		STD											
Volume, nominal heaped (m ³)		5.0	4.5	4.2	3.8	3.6	3.3	4.5	4.2	3.8	3.6	3.3	3.0
Maximum material density (t/m ³)		2.0	2.2	2.4	2.6	2.8	3.0	2.0	2.2	2.4	2.6	2.8	3.0
Width, bucket (mm)	W	2548	2548	2548	2548	2548	2548	2548	2548	2548	2548	2548	2548
Tramming position: axle centre line to bucket lip (mm)	T1	3268	3211	3155	3098	3054	3014	3379	3285	3249	3170	3113	3079
Tramming position: ground bucket tip (mm)	T2	1726	1667	1614	1558	1515	1475	1890	1770	1725	1645	1585	1549
Reach dimension (mm)	L1	1734	1669	1610	1547	1500	1456	1821	1774	1735	1646	1585	1548
Raised position: back height, max (mm)	H1	4917	4931	4895	4907	4878	4879	4958	4942	4858	4795	4764	4743
Raised position: bucket tip, height (mm)	H2	1708	1774	1811	1863	1903	1940	1677	1703	1738	1814	1869	1903

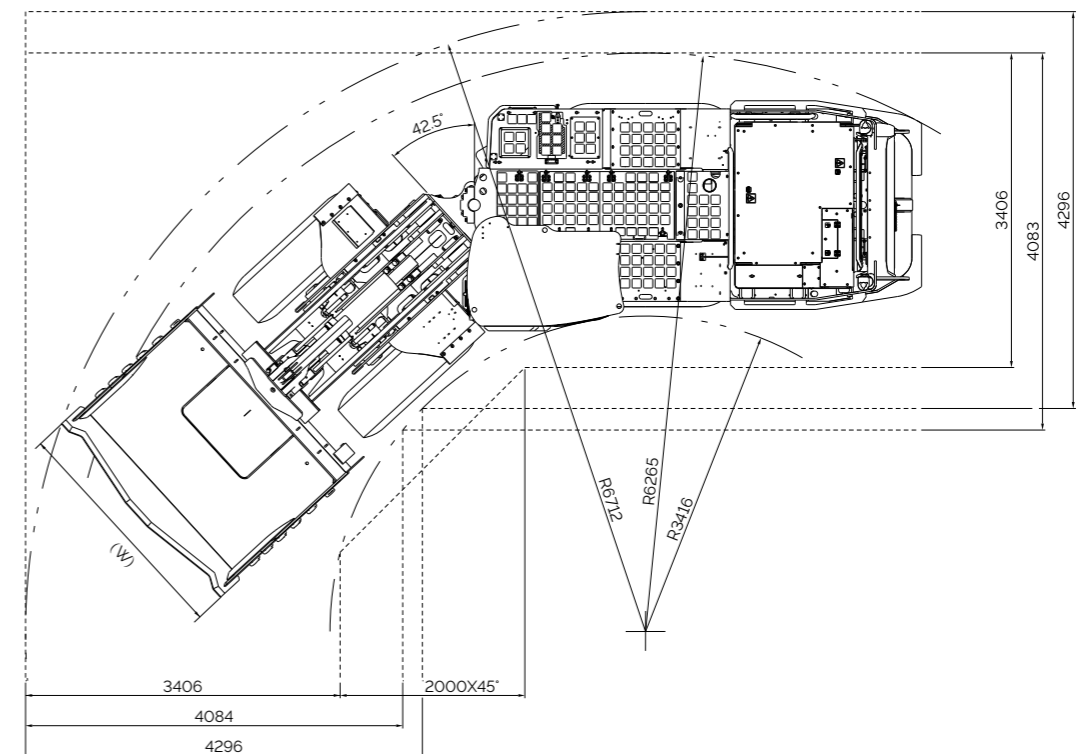


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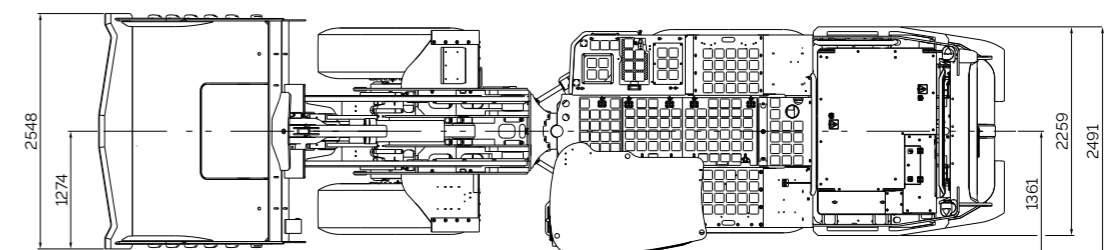
Side view



Turning radius



Top view



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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