

## Superior underground mucking

The Scooptram ST14 S is equipped with features that makes it powerful and yet fuel efficient. The thorough improvements in safety, comfort, sustainability, and serviceability bring new levels of productivity to your mining operations.

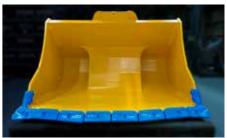






Scooptram ST14 S has a smart control system featuring traction control. speed limiter, over speed protection and automatic delivers exceptional reliability, cost of

FOPS/ROPS operator compartment



Improve the life of your bucket with Wearpact. This high-quality, bolt-on GET ownership, and productivity results.

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### Main benefits

Safety at its core - Scooptram ST14 S has been designed with safety in focus, with many standard features to secure your operation.

Maximum productivity - thanks to the powerful engine, efficient drivetrain, heavyduty axles and transmission which allows for smooth gear shifting, leading to a seamless operation.

Operator's choice - Scooptram ST14 S offers operators optimal working conditions, with ergonomically positioned controls and instruments, as well as an upgraded air conditioning system.

### Part of the Smart series

Our Scooptram ST14 S underground loaders are part of the Smart series (S). Equipped with Rig Control System (RCS) and ready for smart functionality such as automation and remote control.

## A well-balanced and productive underground loader

Scooptram ST14 S offers your operation significant productivity levels without compromising on safety. By integrating a well-balanced design with an efficient drivetrain and numerous smart features, it ensures both efficiency and safety.



### + Built for high-productivity operations

The efficient drivetrain on the Scooptram ST14 S is shaped by the heavy-duty axles as well as the powerful engine. The high-power engine delivers exceptional breakout force and facilitates easy bucket filling, resulting in a smooth and balanced machine with an excellent power-to-weight ratio. At the same time, the transmission allows for smooth gear shifting for a seamless operation.



### + Enjoy a smart operation

Scooptram ST14 S is equipped with smart features optimizing load cycles for maximum efficiency. You can benefit from automation and digital tools like myEpiroc, thanks to Epiroc's Rig Control System (RCS), taking your underground operations to the next level.



### + Automate your Scooptram ST14 S

Stoping and caving operations can benefit from Epiroc's 14-tonne loaders combined with Deep Automation solutions. Epiroc's integration capabilities and system interoperability empowers you to scale up the use of Scooptram ST14 S loaders in a mixed fleet of battery-electric loaders, conventional loaders, and utility vehicles.



### 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.





Reduced bucket repair costs



Up to 40% increased wearlife



Increased machine availability



Continuous operation with fast and easy service

### Technical specifications

### Features

The Scooptram ST14 S provides high safety standards, thanks to, among others, its ISO ROPS and FOPS-certified cabin, dedicated dual cameras, speed limiter, safe disconnector logic, and readiness for integration with a collision avoidance system (CAS) Level 9. With its robust construction, this underground loader is engineered to thrive in demanding mining environments, prioritizing the safety of both operators and operations.

At the same time, operators benefit from a comfortable cabin thanks to a spacious leg-room with the Epiroc footbox, air suspended seat as well as steering soft stop.

Moreover, the smart features and digital tools, such as ride control or Epiroc's fleet monitoring system, offer your operation new levels of productivity.

Keeping up a productive operation requires a high utilization rate of the machine. That is why, we have made the service of the Scooptram ST14 S as safe, fast and accesible as possible.

All of these and more come with a machine that is made for a sustainable business, industry and society, contributing to a better working environement underground.

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### **Specifications**

Capacities		
Tramming capacity*	14 000 kg	
Breakout force, hydraulic	22 300 kg	
Breakout force, mechanical	22 300 kg	
*Tramming capacity with EOD bucket 12 000 kg		
Motion times		
Boom raising	7.6 sec	
Boom lowering	4.0 sec	
Dumping	3.0 sec	
Weights, including battery (standared empty machine)		
Approximate weight	39 100 kg	
Axle load, front	18 900 kg	
Axle load, rear	20 200 kg	

### Sound and vibration

Closed cabin		
A-weighted sound pressure level, LpA according to ISO 6396:2008	82 +/-6 Db	
Weighted whole body vibration level, A(8)w according to ISO 2631-1	0.8 +/-0.4 m/s <sup>2</sup>	
External		
A-weighted sound power level, LwA according to ISO 6395:2008	126 +/-6 dB	

### Requirements and compliances

2006/42/EC	Machinery	directive
2000/42/LC	Machinery	unective

2014/30/EC Electrimagnetic compatibility directive
2014/35/EC Low voltage directive

### Engine

g	
Brand, Model	Cummins, QSM11
Emmissions standard	EPA Tier 3 / EU Stage IIIA
Power rating	250 kW @ 2 100 rpm
Maximum torque	1 674 Nm @ 1 400 rpm
Cooling	Liquid cooled, pump controlled fan
Ventialtion rate	CANMET 736 m³/min (26 000 CFM)  MSHA 326 m³/min (11 500 CFM)
Particulate index	MSHA 354 m³/min (12 500 CFM)

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.

### Fuel

Fuel tank capacity	390 litres
Fuel filtration, primary, including water trap	7 μm
Fuel filtration, secondary	3 µm

### **Axles**

Brand/model	Kessler/ D106
Front and rear differential	Limited slip
Oscillation	16° (+/-8°)

### Transmission

Brand/model	Dana / TE32
Туре	Automatic power shift with fully modulated 4 speed shifting, automatic lock-up and de-clutch functions

### Tires

Air suspended

Epiroc footbox

Two point safety belt

Adjustable height, depth, lumbar support Soft padded with water resistant material

Side seated for bi-directional control

Front and rear size	26.5 R25 (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**

Cabin
Closed cabin
FOPS according to ISO 3449
ROPS according to ISO 3471
Door interlock to apply brake and prohibit hydraulics
Isolated sound barriers
Sealed door and windows
Emergency exit in large window, all windows possible to open from outside and inside
Heating Ventilation Air Conditioning (HVAC)
Ergonomic adjustable joysticks
Safe, three point access into and out of cabin
Oilfree environment
5V USB outlet
Diagnositc outlets
Physical dimensions of operators and minimum operator space envelope according to ISO $3411$
Zones of comfort and reach for controls according to ISO 6682
Operator's control according to ISO 10968
Operator's seat

### **Control system**

Epiroc rig control system, RCS
Operator display with intuitive interface
Logging of production- and machine data
My Epiroc telematics hardware for wifi and LTE
Automatic brake test
Traction control
Bucket float
Joystick controls for dump/hoist and steering
Forward-Neutral-Reverse toggle switch
Machine status indicator light mounted on canopy
Wiper and washer control in joystick
Machine warmup function
Audio-visual reverse alarm

### **Electrical system**

Batteries	2 x 12V, 235 Ah
System voltages	24V
Front working lights	1400 lumen
Rear working lights	1400 lumen
Emergency stops, 3 positions	
Position and brake lights	

### Hydraulic system

System pressure	29.6 Mpa	
Main valve	Open circuit, LS controlled	
Steering pump	Piston type	
Bucket hydraulics pump	Piston type	
Hydraulic tank capacity	218 litres	
Filtration, return line	12 µm	
Hoist cylinders	2x 200 mm	
Tilt cylinder	1x 230 mm	
Steer cylinder	2x 105 mm	
Steering cylinder soft stop		
Automatic Brake Activation, ABA		
Steering according to ISO 5010		

### **Brakes**

Туре	Fully enclosed, force-cooled, multiple wet discs at each wheel end	
Service / park / emergency brakes	SAHR	
Brake system according to ISO 3450		

### **Buckets**

		Material de		
Туре	Volume (m³)	Straight blade	Wearpact (GET)*	Width (mm)
	7.8	1.8	1.7	3 040
	7.0	2.0	1.9	3 040
	6.4	2.2	2.1	3 040
Straight blade and Wearpact (GET)*	5.8	2.4	2.3	3 040
wedipact(dE1)	5.4	2.6	2.5	3 040
	5.0	2.8	2.7	3 040
	4.7	3.0	2.9	3 040
EOD straight blade	6.0	2.0	- 1	2 850

<sup>\*</sup> Wearpact (GET) is optional

### Main frame

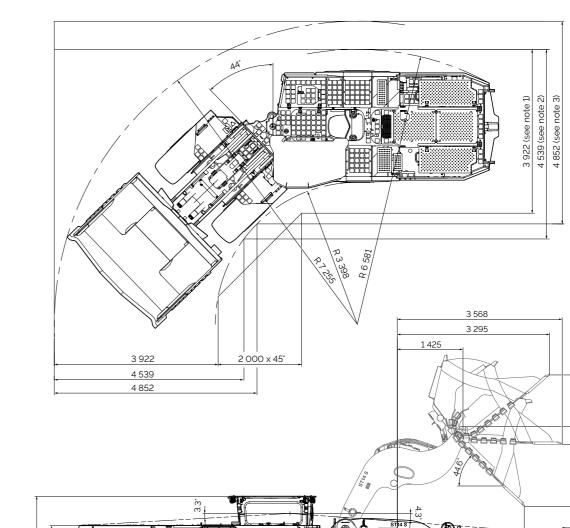
Center hinge and boom lockup pins
Central manual lubrication system
Manual hydraulic fill pump
Battery jumpstart receptacle
ockable machine disconnector

### **Documentation**

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

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### Turning radius and dimensions (2.2 t/m³ bucket)





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### **Grade performance**

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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
Standard configuration, empty bucket (km/h)											
1st gear	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
2nd gear	11.1	11.1	11.1	11.1	11.1	11.1	10.8	9.6	8.8	8.0	7.4
3rd gear	18.5	18.5	18.5	18.5	15.2	12.8	10.8	9.6	8.9	8.0	7.4
4th gear	33.2	33.2	23.7	18.5	15.2	12.8	-	-	-	-	-
Standard configuration, loaded bucket (km/h)											
1st gear	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
2nd gear	10.9	10.9	10.9	10.9	10.9	9.6	8.1	7.2	6.6	6.0	5.5
3rd gear	17.8	17.8	17.8	13.9	11.4	9.6	8.1	7.2	-	-	_
4th gear	31.1	24.9	17.8	13.9	_	_	-	_	_	_	_

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 $3\% \ rolling \ resistance \ assumed. \ Actual \ performance \ may \ vary \ depending \ on \ the \ application, \ lock \ up \ engaged. \ Continuous \ operation \ is \ recommended \ on \ maximum \ 1.7 \ grade.$ 



### **Options**

Automation	
Radio Remote Control (RRC)	
Video assist	
Tele Remote Control	
Automation solutions	

### **Engine**

Liigiile				
Brand, Model	Cummins X12			
Emmissions standard	EPA Tier 4 Final / EU Stage V			
Power rating	250 kW @ 2 100 rpm			
Maximum torque	1695 Nm @ 1400 rpm			
Cooling	Liquid cooled, pump controlled fan			
Ventialtion rate (Ultra low sulphur fuel, Adblue)	CANMET 397 m³/min (14 000 CFM)  MSHA 368 m³/min (13 000 CFM)			
Particulate index (Ultra low sulphur fuel, Adblue)	MSHA 14 m³/min (500 CFM)			

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.

### **Operator's compartment**

Delayed engine off, turbo cool down

Load weighing system

Camera monitoring, front and rear with dedicated displays

Media player

### Control system

My Eprico telematics solution professional
Machine protection
Speed limiter
Collison Avoidance System Interface (CAS)
Tire pressure monitoring system, TPMS
Engine pre-start warning

### **Electrical system**

Face mechanics tool set Shop mechanics tool set

Service tool box for RCS

Operators training in simulator

Detachable service light (CE requirement) Always on strobe Hydraulic system Automatic boom suspension system, ride control Arctic oils Emergency steering (CE requirement) Redundant steering (CE requirement) **Brake** Neutral brake apply, NBA (Park brake on neutral) Hydraulic brake release tow hook Main frame Ansul A-101 Dry Chemical Fire Suppression system with manual release (CE Ansul Checkfire 210 Suppression Detection and Actuation system (CE requirement) Handheld fire extinguisher Central automatic lubrication system Electric pump for hydraulic tank fill, 24V Wheel chocks and brackets Ground engagement tools, GET Wiggins fast fill for fuel Wiggins fast fill for engine oil, transmission, hydraulic and radiator EOD ejector bucket Corrosion resistance radiator Knock down construction Guard rails Parts and services Preventive maintenance kits Repair and rebuild kits Upgrade kits

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## Automate your operation

Your Scooptram loader can be provided with well proven teleremote and automation capabilites, matching the needs of your operation – from small stoping to large block caving.

### + Increased safety

By operating the machine from a control room located in a safe environment, the operator will not be exposed to hazardous areas within the mine.

### Boost productivity

Automation enables you to utilize your loader even when people are not allowed in the mine due to blasting and shift changes, which increases uptime and produced tonnes. Thanks to hauling on repeatable routes, your machine will have fewer wall hits and spend less time in the repair shop.

### + Optimization

Adding automation to your fleet means reaching the full potential of your operation by controlling production assignments, fleet traffic, and work area access. This eliminates the risk of collisions in common drifts and enables a continuous operation.



Read more about how you can automate your operation

## Superior underground haulage

The Minetruck MT42 S is a high speed, 42-metric tonne articulated underground truck, featuring state-of-the-art levels of safety, serviceability and operator comfort which results in unmatched performance in underground mining and construction operations.



### **Specifications**

op contours							
Capacities							
Tramming capacity	42 000 kg						
Standard box volume (SAE heaped)	19.0 m3						
Motion times							
Dumping	13 sec						
Operating weight, including battery							
Approximate weight	37 700 kg						
Front axle load	27 500 kg						
Rear axle load	10 200 kg						

### Motors

	Traction	Auxiliary
Brand	ABB	ABB
IP	65	65
Nominal power	2 x 200 kW	160 kW
Nominal torque	2 x 1 100 Nm	600 Nm
Nominal voltage	400 VAC	400 VAC
Cooling	Liquid cooled	Liquid cooled

## 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.

epiroc.com