

Scooptram EST1030

Electric underground loader
with 10-tonne capacity



Electrically powered to save energy, time and money

The Scooptram EST1030 is a fast, electrically powered loader with a 10 tonne capacity for unparalleled productivity in mining operation. With its durable easy-fill bucket, this loader is designed to work effectively and persevere over the long haul and even in the toughest underground environment. The operator enjoys a quiet, ergonomically designed cabin with safe, easy access to all service points.

+ Main benefits

It's clean thanks to the electric drive which eliminates diesel emissions and minimizes the need for ventilation

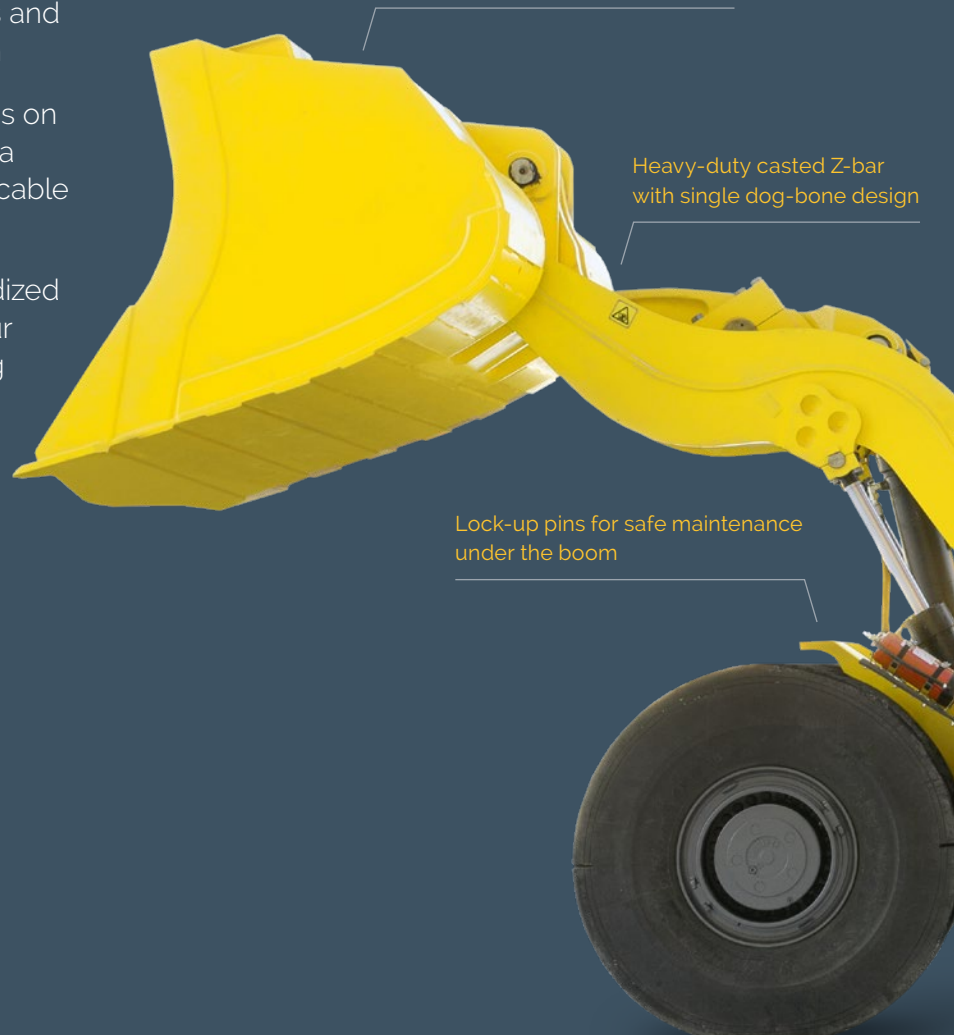
It's reliable since the tensile stress on the cable is automatically kept to a minimum thanks to the patented cable reel control system

Its productive when the standardized parts and components keeps your Scooptram EST1030 in top running condition anywhere in the world

Large, durable bucket with optional ground engaging tools

Heavy-duty casted Z-bar with single dog-bone design

Lock-up pins for safe maintenance under the boom





To boost your productivity, the Scooptram EST1030 is the fastest loader in its class with a top speed of over 15 km/h.



The patented cable reel control system automatically regulates tension to minimize wear on the cable and extend its longevity.



The horizontal cable reel enables a lower tension on the cable which will further improve the cables lifetime.



Quiet, comfortable FOPS and ROPS certified operator cabin with 3-point access for easy entry and exit

Large side hatches for easy access to cable reel and other components

Features

Safety

- Improved underground environment due to the electric drive
- Spring-applied, hydraulic release (SAHR) brakes
- ISO ROPS and FOBS certified cabin, with door interlock that applies brakes, blocks steering and bucket/boom movement when door opens

Ergonomics

- Increased leg-room with Epiroc footbox
- Rubber mounted cabin or canopy for reduced vibration level
- Comfortable suspended seat

Productivity

- Electronic transmission with inching control for smooth and precise shifting
- A Z-bar front end for efficient loading and mucking
- An aggressively designed high shape factor bucket, reducing the need for multiple passes to fill the bucket
- High speed operation with +15 km/h
- Unique and patented low tension cable control system for superior cable life
- Load weighing system (optional)

Sustainability

- 100% electric drive
- Fossil fuel free operation when powered with renewable electricity
- 70% lower energy consumption compared to diesel machines

Serviceability

- Easy access to service points, filters and valve blocks
- Epiroc Rig Control System (RCS) provides service information in clear text on the monitor
- Daily lube points quick and easy to service
- Automatic lubrication system with low level warning and lube fault detection for all daily lube points
- All daily maintenance from ground level
- Sharing most components with the ST1030 ensures excellent support and parts availability all over the world

Specifications

Capacities	
Tramming capacity	10 000 kg
Breakout force, hydraulic	15 200 kg
Breakout force, mechanical	13 900 kg
Motion times	
Boom raising	8,0 sec
Boom lowering	6,0 sec
Bucket	
Dumping	2,1 sec
Rolling back	3,2 sec

Engine

	Standard
Electric motor	3 phase, 50 Hz
Power rating	132 kW
Motor overload protection	
Y/D start	
Ground fault; ground check system	

Upbox

Swept: SP-195	●
Transmits power from the motor to the transmission	●

Transmission

Automatic power shift with integral converter, fully modulated 3 speed shifting, forward/reverse, with inching control	●
Funk: DF250 series	●

Axles

Kessler: D 102	●
Degree of oscillation: 16° +/-10°	●
Differentials: front, limited slip	●
Differentials: rear, no spin	●

Brakes

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

Electrical system

100% electric drive	●
Accessories voltage: 24 V D	●
Hydraulic warning system: tank and transmission level and temperature	●
LED lights	●
Isolation switch lockout	●
Amber strobe light - power on	○
Audio-visual reverse alarm	○
Controls and instruments	○
Ride control	○

Tires

Tubeless, smooth, extra deep tread design for underground mine service.	●
Tire size front and rear: 18.00R25 (slicks)	○
Tire size front and rear: 18.00R25 (treaded)	○
Wheel rim guards	○

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



Operator's compartment

Cabin/Canopy ISO ROPS and FOPS certified	●
Side seated operator for bi-directional operation	●
Two pilot operated joysticks for steering, dump and hoist control	●
Grammer seat with retractable seat belt	●
Open door retainer	●
Door interlock for steering, dump and hoist control	●
External sound level according to ISO 6393 LwA 126dB (A)	●
Sound level in cabin according to ISO 6394 Lpa 85dB (A)	●
Sound level in canopy according to ISO 6394 LpA 105 dB(A)	●
Whole body vibration value 0.5 – 2.0	●
Enclosed cab	○

Hydraulic system

Heavy duty gear type pumps	●
System pressure: 22.7 MPa	●
Hydraulic tank capacity 189 litres	●
Filtration, return line 12 µm	●
Manual hydraulic tank fill pump	●
Bucket float control	●
Cylinders; double acting chrome plated stems, diameter steer cylinders (2) 90 mm	●
Cylinders; double acting chrome plated stems, diameter hoist cylinders (2) 160 mm	●
Cylinders; double acting chrome plated stems, diameter stabilizer cylinder 200 mm	●

Cable reel

Epiroc unique cable control system for longest cable life	●
Multwrap level wind with tension control	●
Automatic brake application at cable end position	●

Cable

Voltage (V)	Frequency (Hz)	Length (m)	
1 000	50	300	●
1 000	60	300	●
0 660	50	200	●

System

Ansul dual bottle fire suppression system with motor shutdown	●
Central manual lubrication	●
Ansul checkfire, autofire suppression	○
Electric fill pump for hydraulic oil	○
Fire extinguisher - 6 kg (extra)	○
Air conditioner	○
Lincoln auto lube with timer	○
Loadrite load weighing system	○
Scooptram RRC (line of sight Radio Remote Control)	○

Main frame

Optional bucket sizes	○
EOD buckets	○
High wear resistant bucket package	○

Documentation

LinkOne parts book, CD	○
LinkOne viewer	○
Parts kit - 1 000 hour consumables	○

Parts and services

Face mechanics tool set	○
Shop mechanics tools set	○
Special tools set	○

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						1.12	1.10	1.8	1.7			1.5	1.4
Km/h	1st gear	5.0	4.8	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.1	4.1	3.9
	2nd gear	8.9	8.5	8.3	8.0	7.8	7.6	7.1	6.8	6.5	6.2	5.8	4.7
	3rd gear	15.8	14.7	13.8	12.8	11.6	10.2	7.9	5.9	4.4			

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

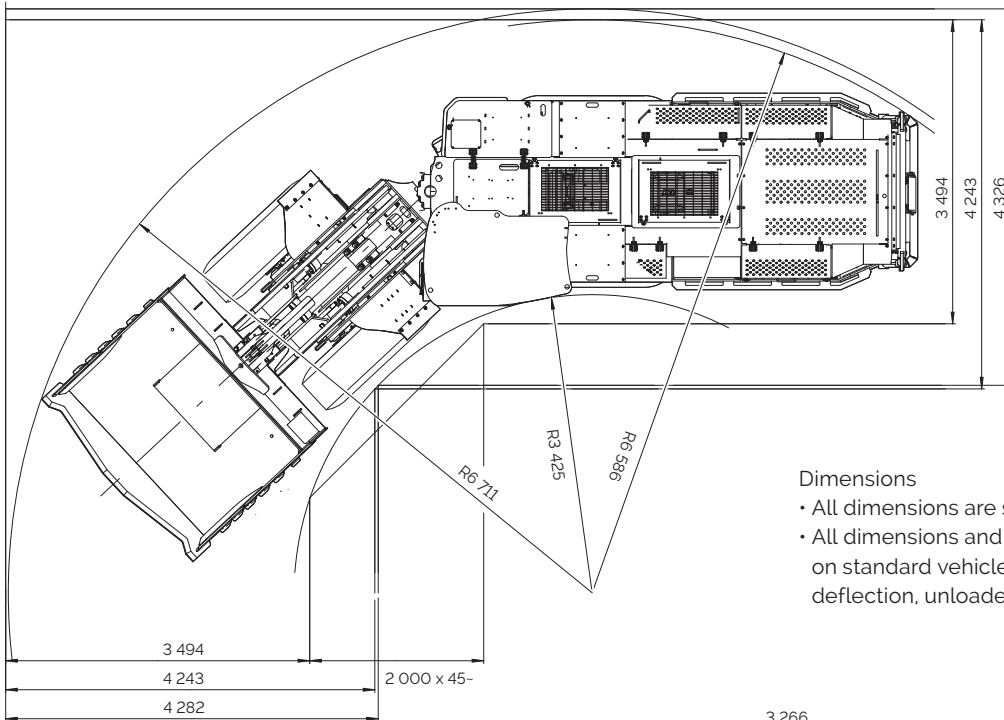
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Ratio						1.12	1.10	1.8	1.7			1.5	1.4
Km/h	1st gear	4.9	4.8	4.8	4.8	4.4	4.3	4.2	4.1	4.0	3.9	3.7	3.4
	2nd gear	8.7	8.3	7.9	7.6	7.2	6.7	6.1	5.4	5.1	4.1	3.3	
	3rd gear	15.1	13.9	12.4	10.6	8.2							

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Technical specifications

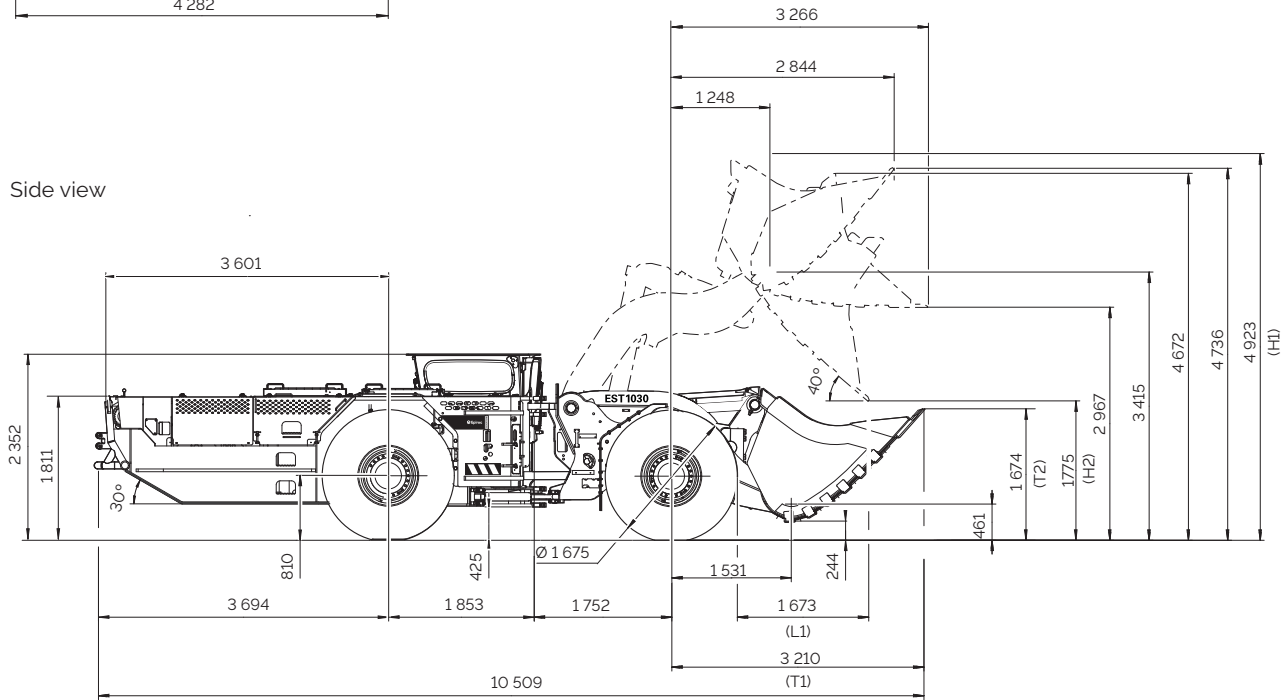
Measurements and weights



Dimensions

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

Side view



Bucket data*

		STD					
Volume, nominal heaped (m3)		5.0	4.5	4.2	3.8	3.6	3.3
Maximum material density (t/m3)		2.0	2.2	2.4	2.6	2.8	3.0
Width, bucket (mm)		W	2 488	2 488	2 488	2 488	2 488
Tramming position: axle centre line to bucket lip (mm)		T1	3 268	3 204	3 155	3 098	3 054
Tramming position: ground to bucket tip (mm)		T2	1 726	1 663	1 614	1 558	1 515
Reach dimension (mm)		L1	1 734	1 662	1 610	1 547	1 500
Raised position: back height, max (mm)		H1	4 917	4 910	4 895	4 907	4 878
Raised position: bucket tip, height (mm)		H2	1 708	1 765	1 811	1 863	1 903

Eod bucket data

Volume, nominal heaped (m3)			4.5	4.2	3.8
Maximum material density (t/m3)			2.0	2.2	2.4
Width, bucket (mm)		W	2 548	2 548	2 548
Tramming position: axle centre line to bucket lip (mm)		T1	3 379	3 285	3 249
Tramming position: ground to bucket tip (mm)		T2	1 890	1 770	1 725
Reach dimension (mm)		L1	1 821	1 774	1 735
Raised position: back height max (mm)		H1	4 958	4 942	4 858
Raised position: bucket tip, height (mm)		H2	1 677	1 703	1 738



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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