

Scooptram ST1030 Underground loaders

Underground loader with 10-tonne capacity



Superior underground mucking

The scooptram ST1030 is a reliable 10 tonnes underground loader with an ergonomically designed operator compartment for unparalleled productivity in mid-size mining applications

⊕ Main benefits

Safety first when the Scooptram ST1030 has been designed with safety in focus, with many standard features to secure your operation

Excellent comfort thanks to the first-class working environment in any surroundings in the Scooptram's air-conditioned, roomy cab

Maximum productivity in the Scooptram ST1030 because of the combination of proven drive train components and a compact frame



Epiroc's unique footbox design guarantees maximum comfort and natural driving position to get the unbeatable productivity.



The patented GET system (Ground Engaging Tool) optimizes muck pile penetration and reduces fuel consumption while achieving one-pass loading with low operating cost.



The unique boom and bucket design combined with an automatic de-clutch are key features to achieve easy mucking for production or mine development.



ROPS and FOPS air conditioned cabin

Radio Remote Control

Boom locking pins

Emergency stops

Reliable power train

Tow hook

Ride Control

SAHR brakes

Technical specifications

Features

- Safety**
 - Spring-applied, hydraulic release (SAHR) brakes
 - ISO ROPS and FOPS certified operator compartment with door interlock (when cabin door is opened, the brakes are applied and steering and bucket/boom movement are blocked)
 - Great operator visibility
 - Locking pins for center hinge and boom
 - Three strategically located emergency stops
- Front and rear cameras**
- Comfort**
 - Epicroc footbox to expand leg room
 - Rubber-mounted cab to reduce vibration and noise
 - Ride control boom suspension keeps the bucket stable while tramming and offers smoother ride
 - Ergonomic joysticks
 - Comfortable spring suspended seat
- Sustainability**
 - Automatic de-clutch to simplify and speed up dumping operation, reduce fuel consumption and increase components service life, especially when loading into trucks
 - Durable power-train components
 - Fuel-efficient, clean-burning EPA Tier 3/EU Stage IIIA engine
 - Rock-tough catalytic purifier
 - L&M V-tube core radiator
- Productivity**
 - Ride control to provide a smooth ride, allowing to travel at higher speed and reducing spillage
 - Load weighing system
- Serviceability**
 - Easy maintenance with centrally located service point
 - Anti-skid materials at service access points
 - Central lubrication

Specifications

Capacities	
Tramming capacity*	10 000 kg
Breakout force hydraulic	17 900 kg
Breakout force mechanical	13 900 kg
*Tramming capacity with EDD bucket 9 000 kg	
Motion times	
Boom raising	8.0 sec
Boom lowering	6.0 sec
Dumping	21 sec
Weights (standard empty vehicle)	
Approximate weight	27 200 kg
Axle load, front end	13 700 kg
Axle load, rear end	13 500 kg

Engine

Brand/model	Cummins QSL9	EPA Tier 3/EU Stage IIIA/China Stage III
Power rating at 2 000 rpm	186 kW/250 hp	
Maximum torque at 1 400 rpm	1 085 Nm	
MSHA Part 7 ventilation rate	255 m ³ /min	
MSHA Part 7 particulate index	340 m ³ /min	
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	284 litres
Fuel filtration, primary, including water trap	7 µm
Fuel filtration, secondary	3 µm

Transmission

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

Axles

Brand/model	Kessler D102
Degree of rear axle oscillation	16° (8° on each side)
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
Brake apply after 3 sec in neutral	
Brake release retriever tow hook	

Tires

Tubeless tire design for underground mine service	
Tire size front and rear	18.0R25 (slicks)
Tire run front and rear	18.0R25 (treaded)
*As applications and conditions vary, Epicore recommends that the user consults with tire suppliers to obtain the optimum tire selection.	



Technical specifications

● - Standard ○ - Option

Operator's compartment

Canopy (ISO ROPS and FOPS)	●
Cabin with automatic climate control, presumed with filtered air (ISO ROPS and FOPS)	○
Door interlock (Lapetus 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	●
External sound level according to ISO 6393 LWA 126 dB(A)	
Sound level in canopy acc. to ISO 6394 LPA 101 dB(A)	
Sound level in cabin according to ISO 6394 LPA 85 dB(A)	
Whole body vibration value according to below EN 1253 A8W maximum 0.5–2.0 m/s ²	

Hydraulic system

Heavy duty gear type pumps	●
System pressure 21.4 MPa	●
Hydraulic tank capacity 189 litres	●
Filtration, return line 12 µm	●
Electric pump for hydraulic tank fill, 24 V	○
Arctic oil	○
Slewing cylinders, chrome plated stems, 2x90 mm diameter	
Hoist cylinders, chrome plated stems, 2x160 mm diameter	
Stabilizer cylinder, chrome plated stems, 1x200 mm diameter	

Control system

Rear camera	○
Audio-visual reverse alarm	●
Joystick, controls for dump and hoist, and steering	●
Bucket float	●
Ride control (boom suspension)	○

Electrical system

System voltage, start and accessories, 24/12V converter	●
Mini duty high output alternator 140 Amps	●
Isolation switch lockout	●
Driving lights LED 13x40 W	●
Detachable service light (required for CE certified vehicles)	○

Main frame

Center hinge and boom lock up pins	●
EOO ejector bucket	○
GET Ground engagement tools	○
Wheel chocks and brackets	○
Knockdown construction	○
Central manual lubrication system	●
Central automatic lubrication system	○
Wiggins fast fuel fill	○
Wiggins fast hydraulic oil fill	○
Hand held fire extinguisher	○
Arsl manually activated fire suppression system with engine shut down	○
Arsl chet fire automatically activated fire suppression system	○
Cold weather package 120 V or 240 V block heater, battery warmer, fuel heater, hydraulic oil heater, transmission oil heater, arctic oil	○
Corrosion resistant radiator	○

Automation

Scooptram Radio Remote Control interface	○
Scooptram Radio Remote Control	○
Centig telematics solution professional	●

Parts and services

Preventive maintenance kits	○
Repair and rebuild kits	○
Upgrade kits	○
Face mechanics tool set	○
Shop mechanics tool set	○
Operators training in simulator	○

Documentation

Digital operator, spare parts manual	●
Operator manual - paper	○
Spare parts manual - paper	○

Technical specifications

Grade performance

Standard configuration, empty bucket															
Grade	Ratio	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	-	-	-	-	112	110	18	17	-	-	15	14		
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	-	-	-		
	4th gear	26.7	23.3	18.9	12.7	-	-	-	-	-	-	-	-		

3% rolling resistance assumed. Actual performance may vary depending on the application. Continuous operation is recommended on maximum 17 grade.

Grade performance

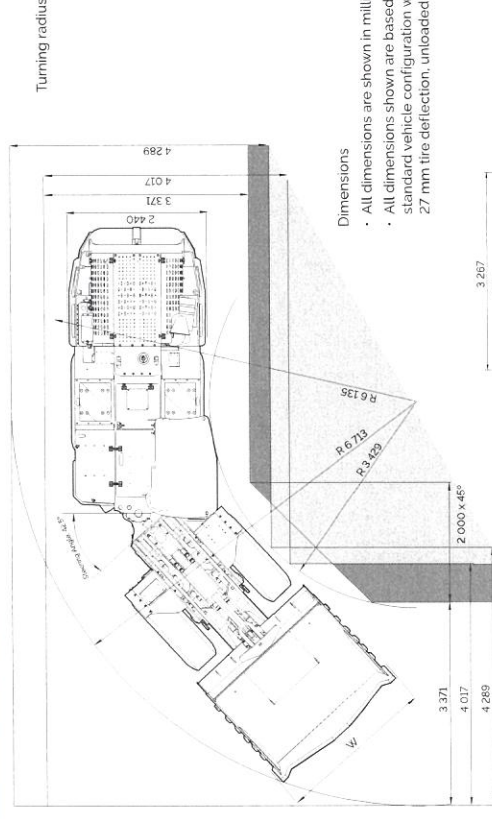
Standard configuration, loaded bucket															
Grade	Ratio	0.0	2.0	4.0	6.0	8.0	10.0	12.5	14.3	16.0	18.0	20.0	25.0		
Ratio	Grade	-	-	-	-	112	110	18	17	-	-	15	14		
km/h	1st gear	4.9	4.8	4.8	4.8	4.4	4.3	4.2	4.1	4.0	3.9	3.7	3.4		
	2nd gear	8.7	8.3	7.9	7.6	7.2	6.7	6.1	5.4	5.1	4.1	3.3	-		
	3rd gear	15.1	13.9	12.4	10.6	8.2	-	-	-	-	-	-	-		
	4th gear	24.9	19.1	-	-	-	-	-	-	-	-	-	-		

3% rolling resistance assumed. Actual performance may vary depending on the application. Continuous operation is recommended on maximum 17 grade.



Technical specifications

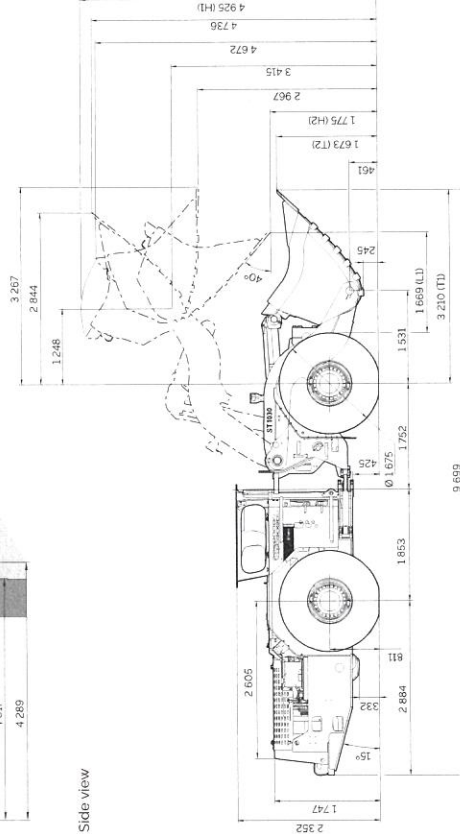
Measurements and weights



Dimensions

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

Side view



Bucket data

		STANDARD												EOD											
		STD																							
Volume, nominal (heaped m3) Maximum material density (t/m3) Width, bucket (mm) Tramming position, axle centre line to bucket lip (mm) Tramming position, ground bucket tip (mm) Reach dimension (mm) Raised position, back height, max (mm) Raised position, bucket tip, height (mm)	W	56	50	45	42	38	36	33	45	42	38	36	33	45	42	38	36	33	45	42	38	36	33	30	30
		18	20	22	24	26	28	30	20	22	24	26	28	20	22	24	26	28	20	22	24	26	28	30	30
		2548	2548	2548	2548	2548	2548	2548	2548	2548	2548	2548	2548	2548	2548	2548	2548	2548	2548	2548	2548	2548	2548	2548	2548
		T1	3332	3288	3210	3155	3098	3054	3014	3379	3285	3249	3170	3113	3079										
		T2	1791	1726	1673	1614	1558	1515	1475	1890	1770	1725	1645	1585	1549										
		L1	1803	1734	1689	1610	1547	1500	1466	1821	1774	1736	1646	1585	1548										
		H1	5015	4917	4925	4895	4907	4878	4879	4958	4942	4858	4795	4764	4743										
		H2	1648	1708	1775	1811	1863	1903	1940	1677	1703	1738	1814	1869	1903										

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