

Scooptram ST3.5

Underground diesel loader with 6 tonne load capacity



Reputable loader for small to medium sized mines

The Scooptram ST3.5 is designed for smaller to medium sized operations, that includes development work, production mining, construction sites, and site clean-up activities. The Scooptram ST3.5 has a strong, positive reputation built over time, bucket by bucket.

+ Main benefits

High safety level thanks to features such as ISO ROPS/FOPS approved operator's canopy, boom up lock device, wheel chocks, audio-visual reverse alarm, spring applied hydraulic released brake system, 3-point contact and anti-skid protection for safe access of operators and service personnel.

Flexible Operation thanks to a powerful engine for high altitude applications, a parallel boom design and single stick pilot control matching to an aggressive bucket configuration which provides quick and efficient mucking.

Serviceability thanks to an easily serviced machine – easy access to all daily service points, saving time, reducing cost of operation and improving the service life.



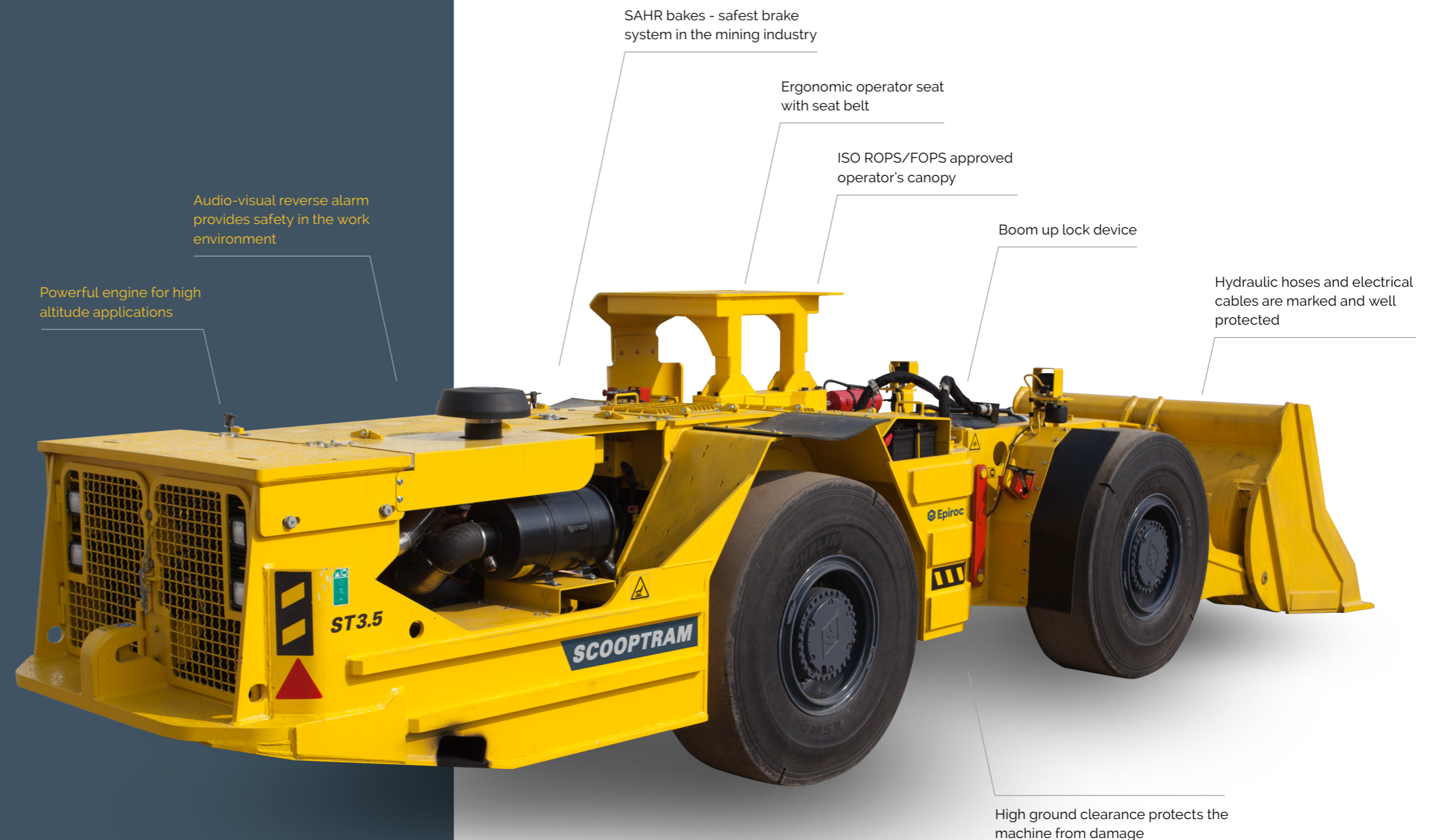
A parallel boom design matched to an aggressive bucket configuration provides efficient mucking operations.



Three point mounting and anti-skid protection provides safe access for operators and service personnel.



Tier III engine reduces the emissions further. Reduced emission means cleaner air and better working environment in the mine.



SAHR bakes - safest brake system in the mining industry

Ergonomic operator seat with seat belt

ISO ROPS/FOPS approved operator's canopy

Boom up lock device

Hydraulic hoses and electrical cables are marked and well protected

Audio-visual reverse alarm provides safety in the work environment

Powerful engine for high altitude applications

High ground clearance protects the machine from damage

Robust structure for long term durability

The Scooptram ST3.5 is designed with strong and longlife structure to provide shorter machine downtime. We utilize the feedback from you, to get the Scooptram continuous improved.



+ Safety

The Scooptram ST3.5 is designed to keep a high level of safety. A new designed ISO ROPS/FOPS approved canopy and stronger integrated operator's compartment with protection bars provide safe operation.



+ Durability

Continuous improvement makes Scooptram ST3.5 long life running in underground mines. High power to weight ratio improves muck pile penetration. New designed stab cylinder, single lever dumping hoist control valve, improved boom and load frame help improving loading performance a lot.



+ Comfort

Side seated operator position for efficient bi-directional operation ensures wide visibility. Ergonomic operator seat with seat belt provides comfort during a full work shift.



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

● - Standard ○ - Option

Specifications

Capacities	
Tamming capacity*	6 000 kg
Breakout force, hydraulic	10 204 kg
Breakout force, mechanical	10 204 kg
*Tramming capacity with EOD bucket 5 100 kg.	
Motion times	
Boom raising	4.7 sec
Boom lowering	5.0 sec
Dumping	3.6 sec
Weights (Standard empty vehicle)	
Approximate weight	18 050 kg
Axle load, front end	7 250 kg
Axle load, rear end	10 800 kg

Engine

Brand/model	Deutz TCD2013L06 2V, EPA Tier 3/EU Stage IIIA/CHINA III
Power rating at 2 300 rpm	173 kW / 232 hp
MSHA Part 7 ventilation rate	255 m ³ /min
MSHA Part 7 particulate index	127.5 m ³ /min
Standard: Water cooling, exhaust silencer	

Fuel

Fuel tank capacity: 195 litres	●
Fuel filtration, primary, including water trap: 6 µm	●
Fuel filtration, secondary: 3 µm	●

Transmission

Modulated power shift, with 3 speeds forward and reverse	●
Brand/model: Dana, R32000 Series	●

Axles

Brand/model: Rock Tough 406	●
Degree of rear axle oscillation: 14° (7° on each side)	●
Differentials: Front, No spin	●
Differentials: Rear, Standard	●

Brakes

Fully enclosed, multiple wet discs at each wheel end	●
Service/parking/emergency brakes: SAHR	●
Brake cooling	○
Brake release retriever tow hook	○

Tyres

Tubeless tyres design for underground mine service*	●
Inverted rims - Tyre lock on inside	○
Tyre size front and rear: 17.5 R25 (slicks)	○
Tyre size front and rear: 17.5 R25 (treaded)	○
* As applications and conditions vary, Epiroc recommends that the user consults with tyre suppliers to obtain the optimum tyre selection.	

Operator's compartment

Canopy (ISO ROPS and FOPS approved)	●
Side seated operator for bi-directional operation and maximum visibility	●
Ergonomic operator seat with seat belt	●
External sound level according to ISO 3744: 101 - 111 dB(A)	
Sound level in canopy according to ISO 3744: 93.2 - 93.8 dB(A)	
Whole body vibration value 0.15 m/s ² according to EN 14253 and ISO 2631-1	

Hydraulic system

Heavy duty gear type pumps	●
System pressure: 13.8 MPa	●
Hydraulic tank capacity: 170 litres	●
Filtration, suction line: 25 µm	●
Manual hydraulic tank fill pump	○
Steer cylinder: chrome plated stems, 2 × 90 mm diameter	
Hoist cylinder: chrome plated stems, 2 × 150 mm diameter	
Dump cylinder: chrome plated stem, 1 × 150 mm diameter	

Control system

Engine data display	●
Audio-visual reverse alarm	●
Monostick steering control	●
Single lever dump and hoist control	●
Bucket float control	○
Low hydraulic oil level warning	○
Blockout 3rd gear	○

Electrical system

System voltage: start & accessories, 24 V	●
Mine duty high output alternator: 80 Amps	●
Isolating switch lockout	●
Driving lights Halogen: 8 × 70W	●
Driving lights LED: 8 × 1 800 lumen, 22 W	○

Main frame

KA requirement	○
Center hinge and boom up lock device	●
EOD bucket	○
Wheel chocks and chocks brackets	○
Knockdown construction	○
Central manual lubrication	●
Automatic lubrication system with timer	○
Anti-corrosion cooler	○
Handheld fire extinguisher	○
Ansul manually activated fire suppression system with engine shut down	○
Ansul checkfire automatically activated fire suppression system	○
Tool box	○

Automation

Scooptram radio remote control	○
Scooptram radio remote Interface	○

Parts and services

Preventive maintenance kits	○
Repair and rebuild kits	○
Upgrade kits	○
Operator training	○

Documentation

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

Technical specifications

Grade performance

Standard configuration, empty bucket													
%	Grade	0.0	2.0	4.0	6.0	8.3	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	4.8	4.8	4.8	4.7	4.7	4.6	4.5	4.5	4.4	4.4	4.3	4.2
	2nd gear	9.8	9.8	9.5	9.3	9.0	8.8	8.4	8.1	7.7	7.2	6.6	5.3
	3rd gear	18.9	18.8	17.7	16.4	13.8	11.9	9.2					

3% rolling resistance assumed. Actual performance may vary depending on the application.

Grade performance

Standard configuration, loaded bucket													
%	Grade	0.0	2.0	4.0	6.0	8.3	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	4.7	4.7	4.7	4.7	4.6	4.5	4.4	4.3	4.2	4.2	4.1	3.8
	2nd gear	9.5	9.5	9.3	8.9	8.5	8.2	7.3	6.6	6.0	5.3	4.7	
	3rd gear	17.5	17.5	16.4	13.4	9.9							

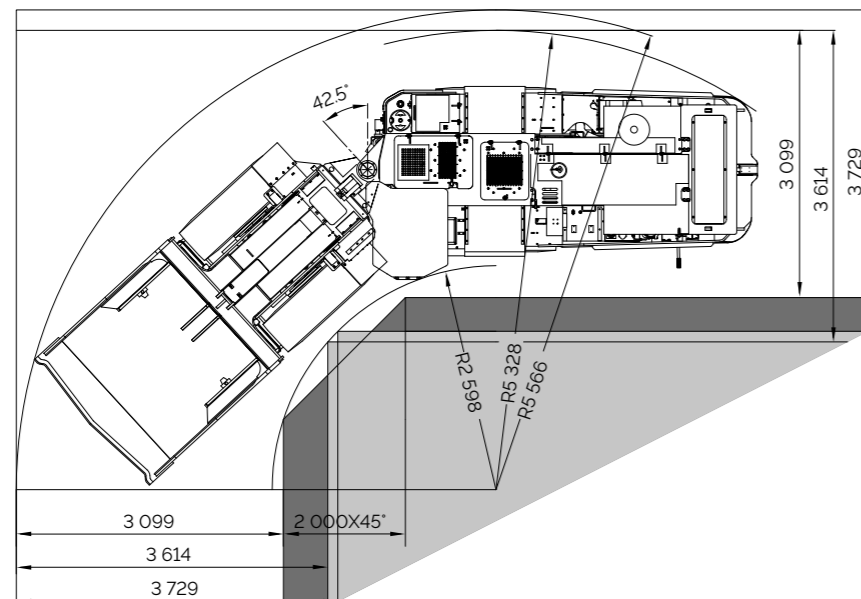
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Measurements

Turning radius

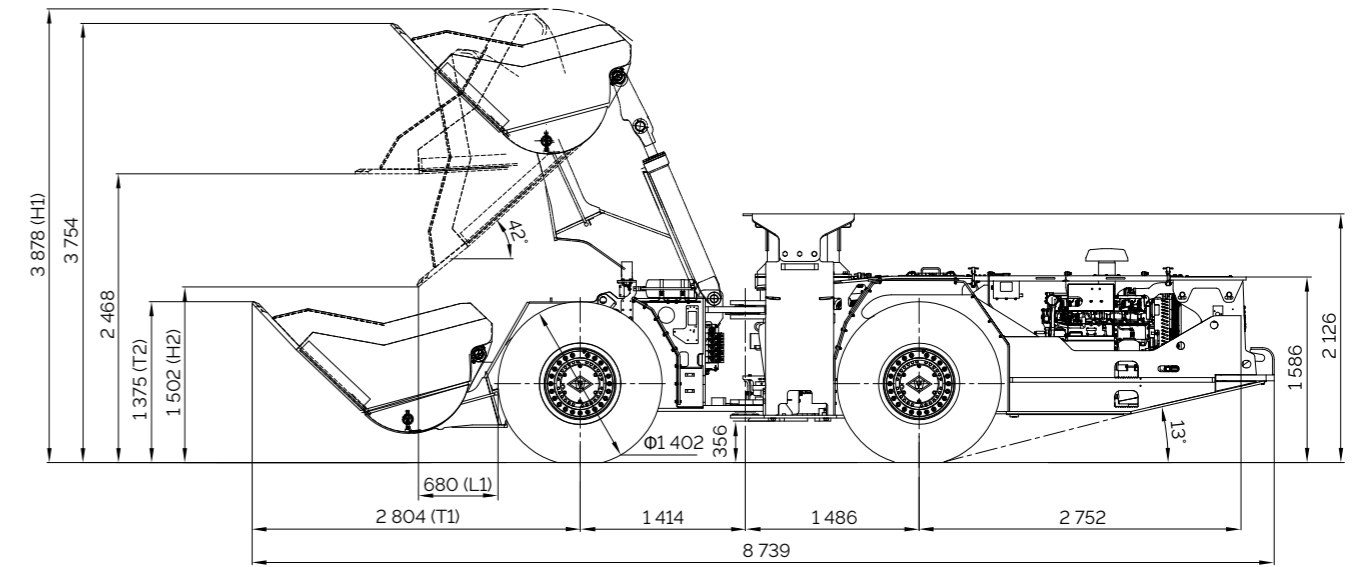
Dimensions

- Turning angle +/-42.5°
- All dimensions shown are based on standard vehicle configuration with 25 mm tyre deflection, unloaded
- All dimensions are shown in millimeters

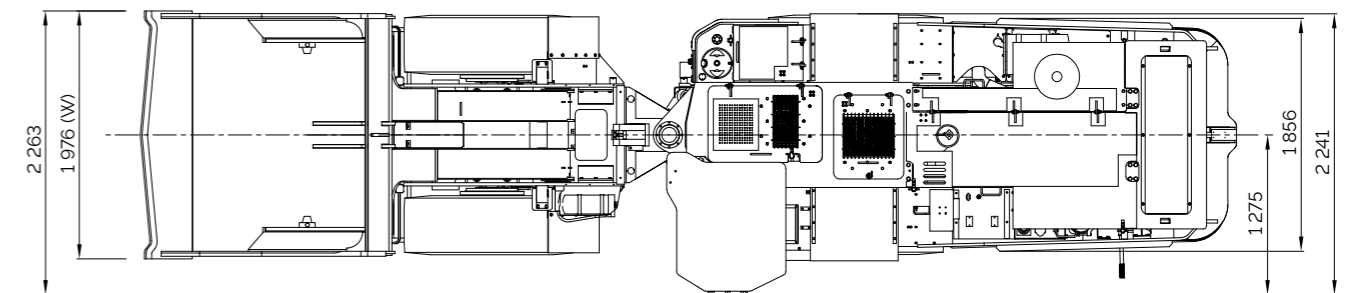


Technical specifications

Side view



Top view



Bucket data

	STANDARD						EOD				
					STD						
Volume, nominal heaped (m³)		19	23	27	31	34	18	20	27	31	34
Maximum material density (t/m³)		3.2	2.6	2.2	2.0	1.8	2.8	2.6	2.0	1.8	1.4
Width, bucket (mm)	W	1956	1976	1976	1976	2125	1976	1976	1976	2171	2424
Tramming position: Axle centerline to bucket lip (mm)	T1	2694	2629	2804	2960	2903	2869	2871	2969	2938	2938
Tramming position: Ground to bucket lip (mm)	T2	1303	1345	1375	1462	1415	1471	1469	1555	1573	1574
Reach dimension (mm)	L1	614	591	680	837	688	980	975	1085	1070	1069
Raised position: Back height, max. (mm)	H1	3744	3818	3878	3996	3967	3949	3945	4048	4040	4039
Raised position: Bucket tip, height (mm)	H2	1519	1589	1502	1405	1403	1631	1624	1552	1556	1553



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