1-705-566-8190
marketing@bmcdowell.com

Since 1968
McDowell®

Scooptram ST4

Undergroundloaderwith 4 tonneload capacity

Epiroc



Powerful underground loader for narrow mines

TheScooptram ST4 is anidealchoiceforapplicationsvaryingfromdevelopmentto productionin small andnarrowveinminesaswellasinutilityjobs.Italsoperforms outstandingly even in high-altitudeenvironments.Withatrammingcapacityof4-tonnes, the Scooptram ST4 delivers excellentperformanceinsafety,productivityandreliability.

Main benefits

Safety first The new Scooptram ST4 is packed with essential safety features, including a certified FOPS/ROPS canopy, seat interlock system, boom uplock mechanism, and a reliable reverse alarm, all designed to protect operators and ensure safe underground operations.

High productivity The powerful and robust drivetrain gives the outstanding traction effort and enables high productivity whether operating at sea level or in demanding high-altitude environments.

High reliability The Scooptram ST4 adopts mature technical solutions and carefully selects high-quality, high-performance components. Especially with its newly upgraded and strengthened transmission system, it ensures long machine availability, convenient maintainability, and an expected life-cycle for customers.



Audio-visual reverse alarm

Brake release tow hook

Radio Remote Contro (IRRC)

SAHR bakes - safest brake system in the mining industry



The Scooptram ST4's automatic lubrication system ensures consistent greasing of key components, reducing service intervals and maximizing uptime in demanding underground environments.



The 4-in-1 cooling system provides higher performance with better airflow and efficiency.



Radio Remote Control (RRC) for line-of-sight operations, offers an effective way of working inside stopes and areas exposed to risks of falling rock. When personal safety cannot be guaranteed, RRC enables an operation to take place from a safe distance.



Power and efficiency in a compact design

Experience a boostin operational efficiency with the new engineered drivetrain system. Scooptram ST4delivers uptotwo times faster bucketfill, poweredby enhanced tractiveeffort from an upgraded engine and transmission. The result is a 25% boost in overall productivity, thanks to quicker cycle times, higher travel speed, and superior load handling.



+ Designed for safe operations

TheScooptram ST4prioritizesoperatorsafetywith fail-safe SAHR brakes, FOPS/ROPS-certified cabin, and automatic seat interlock. Emergency stops, neutral brake apply, and remote control operation ensure safe handling in hazardous environments. With advanced steering backup and secure maintenance locks, ST4 delivers confidence and control in every underground mission.



+ Durability underground

TheScooptramST4 featuresupgraded, durable frame structures. Its powerful drivetrain combines a Cummins engine, Dana transmission and axles, a strengthened cardan shaft, and a high-efficiency 4-in-1 radiator, ensuring reliable, high-performance operation in demanding underground conditions.



+ Lower emissions

TheScooptram ST4 comes standard with a fuel-efficient stage IIIA / Tier 3 engine, approved by Canmet and MSHA for safe underground use and long service life. For operations requiring lower emissions, an optional Tier 4 Final / Stage V engine is available, compatible with ultra low sulfur diesel fuel.

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	
Tamming capacity*	4 000 kg
Breakout force, hydraulic	9 595 kg
Breakout force, mechanical	7 965 kg
*Tramming capacity with EOD bucket 3 200 kg.	
Motion times	
Boom raising	3.1 sec
Boom lowering	4.4 sec
Dumping	4 sec
Weights (Standard empty vehicle)	
Approximate weight	13 860 kg
Axle load, front end	5 720 kg
Axle load, rear end	8 140 kg

Engine

Brand/model		
Power rating at 2 200 rpm MSHA Part 7 ventilation rate	Cummins QSB 4.5, EPA Tier 3/EU Stage IIIA	Cummins QSB 4.5, EPA Tier 4f/EU Stage V
MSHA Part 7 particulate index	97 kW / 130 hp	99 kW / 133 hp
	—	155.7 m^3/min
	—	14.1 m^3/min

Standard: Water cooling, Catalytic purifier plus exhaust silencer

Fuel

- Fuel tank capacity: 150 L
- Fuel filtration, primary, including heater and water trap: 7 µm
- Fuel filtration, secondary: 3 µm
- Epiroc Scooptram loaders are compatible with HV0100

Transmission

- Modulatedpowershift,with 4 speeds forward and reverse
- Brand/model: Dana, T14

Axles

- Brand/model: Dana, 14D
- Degree of rear axle oscillation: 16° (8° on each side)
- Differentials: Front, No spin
- Differentials: Rear, standard

Brakes

- Fullyenclosed, multiple wet discs at each wheel end
- Service/parking/emergency brakes: SAHR
- Brake apply after 3 sec in neutral

Tyers

- Tube tyres design for underground mine service*

* 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 ROPSand FOPSapproved)
- Side seated operator for bi-directional operation and maximum visibility
- Ergonomic operator seat with seat belt
- External sound level according to ISO 6393 LwA 121 dB(A)
- Sound level in canopy according to ISO 6394 LpA 102 dB(A)
- Whole body vibration value 0.5-2.0 m/s^2 according to EN 14253 and ISO 2631-1

Hydraulic system

- Heavy dutygear type pumps
- System pressure: 12.4 MPa
- Hydraulic tank capacity: 176 litres
- Filtration, suction line: 10 µm
- Steer cylinder: chrome plated stem, 1 × 125 mm diameter
- Hoist cylinder: chrome plated stem, 1 × 180 mm diameter
- Dump cylinder: chrome plated stem, 1 × 180 mm diameter

Control system

- Enginedata display
- Audio-visual reverse alarm
- Hydraulic pilot steering handle
- Single lever dump and hoist control
- Seat interlock

Electric system

- Systemvoltage: start & accessories, 24 V
- Mine duty high output alternator: 140 Amps
- Isolating switch lockout
- Driving lights LED: 5 × 1 800 lumen, 22 W

Main frame

- Center hingeandboom up lock device
- Central manual lubrication
- Dump cylinder rod protector

Documentation

- E-copy oftheoperation,service and maintenance manuals, also Spare Parts Catalogue in English and other languages in Techinfo.

Options

Brakes

- Brakerelease retriever tow hook

Tyers

- Tyre size front and rear: 12.00 R24 (slicks)
- Tyre size front and rear: 12.00 R24 (treaded)

Hydraulic system

- Manualhydraulictankfillpump

Control system

- Bluestrobe light-poweron
- Emergency Steering
- Blockout 3rd and 4th gears

Electric system

- Detachableservicelight(required for CE Approved Vehicles)

Main frame

- EOD bucket
- Wheel chocks and chocks brackets
- Knockdown construction
- Automatic lubrication system with timer
- 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

- Preventivemaintenancekits
- Operator training

Documentation

- Spare partsmanual-Paper
- Operator manual - Paper

Technical specifications

Grade performance

Standardconfiguration,Emptybucket													
%	Grade	0	2	4	6	8.3	10	12.5	14.3	16	18	20	25
km/h	1st gear	4.4	4.3	4.1	4.1	4	3.9	3.8	3.8	3.7	3.7	3.6	3.6
	2nd gear	8.5	8.4	8.1	8	7.6	7.4	7.2	7.1	6.9	6.5	6.2	5.6
	3rd gear	14.3	13.9	13.2	12.6	11.6	10.9	9.7	7.7	7.5	6	5.3	--
	4th gear	24	22.6	20.2	16.5	12	8.8	5.6	--	--	--	--	--

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

Standard configuration, Loaded bucket

Standardconfiguration,Loaded													
%	Grade	0	2	4	6	8.3	10	12.5	14.3	16	18	20	25
km/h	1st gear	4.3	4.2	4	3.9	3.9	3.8	3.8	3.7	3.7	3.6	3.5	3.4
	2nd gear	8.3	8.2	8	7.8	7.4	7.2	7	6.9	6.4	5.8	5.5	4
	3rd gear	13.9	13.5	12.7	11.7	10.5	9.3	6.2	5.9	4.7	--	--	--
	4th gear	23.5	20.7	16.5	11	6.5	--	--	--	--	--	--	--

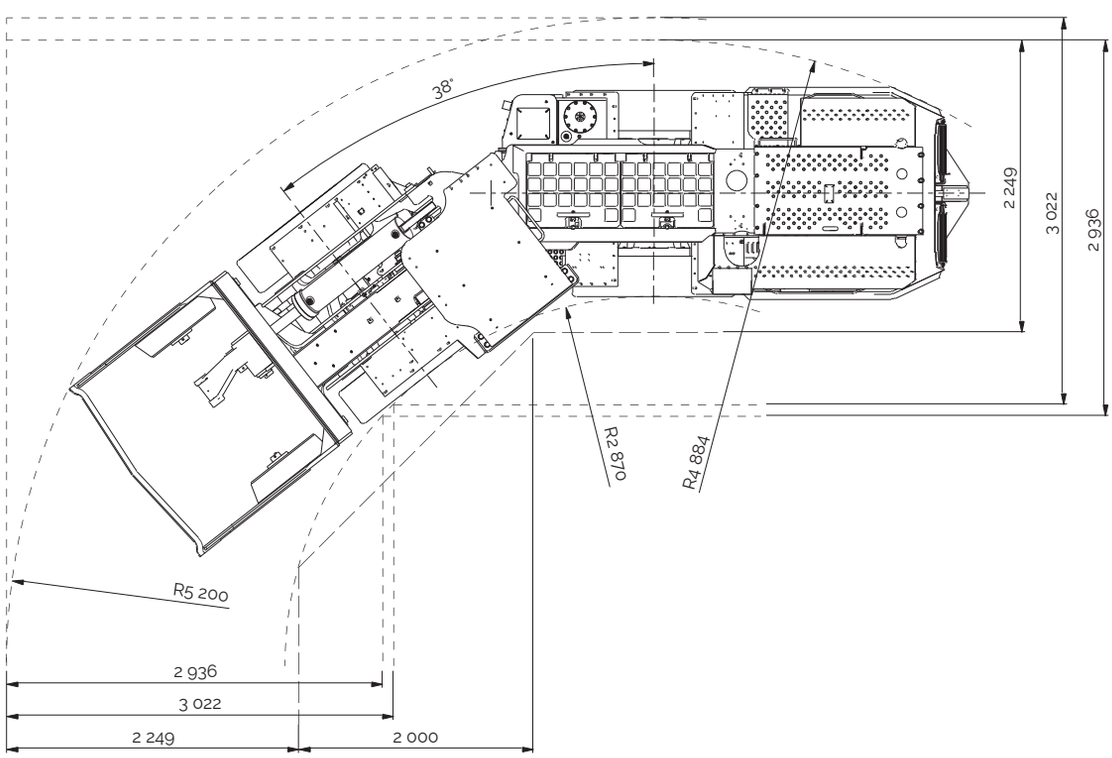
3% rolling resistance assumed. Actual performance may vary depending on the application.

Measurements

Turning radius

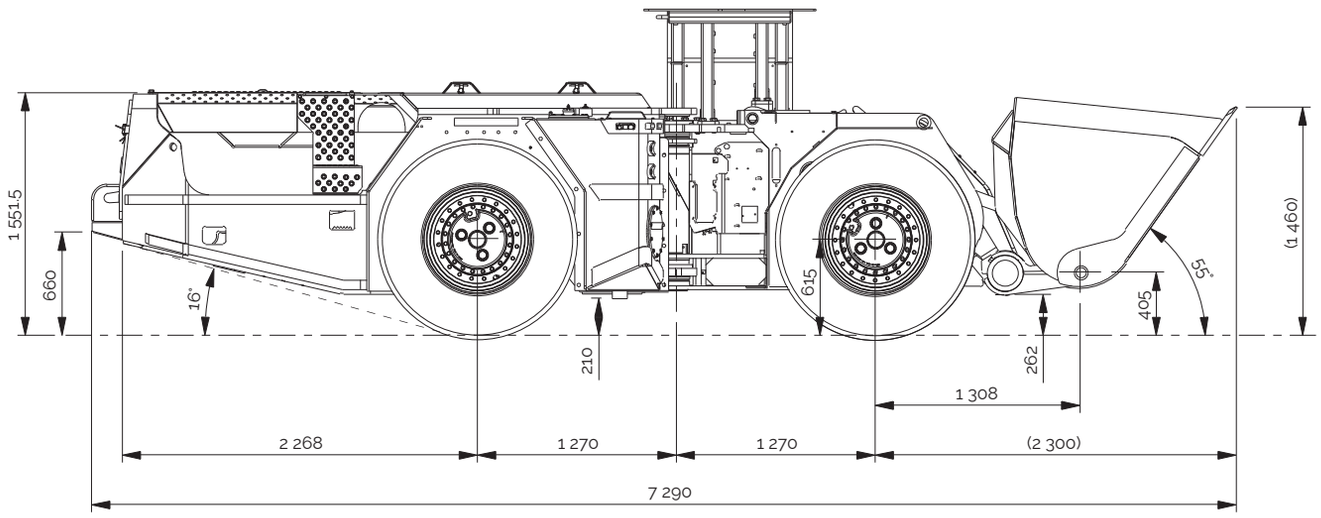
Dimensions

- All dimensions are shown in millimetres
- All dimensions and calculations shown are based on standard vehicle configuration with 25 mm tyre deflection, unloaded
- Machine displayed with Cummins engine and 1.9 m3 bucket

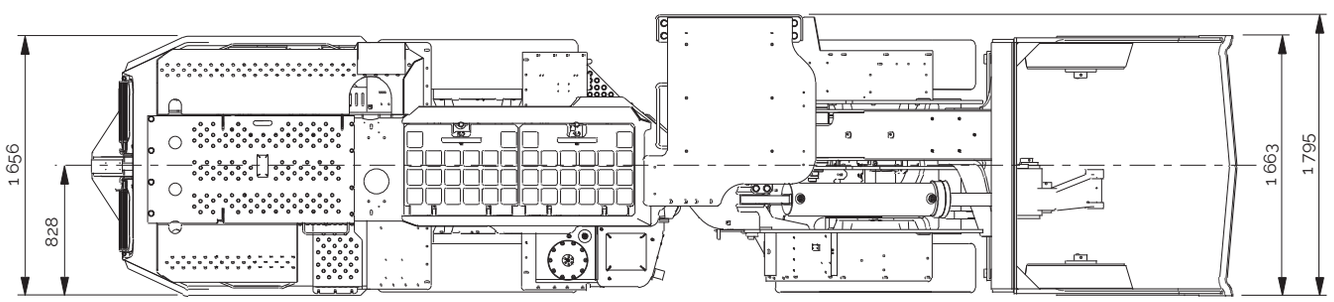


Technical specifications

Side view



Top view



Bucket data

	Straight Blade						EOD Straight blade			
Volume (m^3)	1.5	1.7	1.9	2.1	2.3	2.5	1.2	1.5	1.7	1.9
Material density (t/m^3)	2.7	2.4	2.1	1.8	1.6	1.4	3.1	2.3	2	1.6
Width (mm)	1663	1663	1663	1663	1663	1663	1663	1663	1663	1663

9869 0308 01 a 2025-10 Nanjing, China. Legal Notice © Copyright 2018, Epiroc (Nanjing) Mining & Construction Equipment Ltd., Nanjing, China. All product names in this publication are trademarks of Epiroc. Any unauthorized use or copying of the contents or any part thereof is prohibited. Illustrations and photos may show equipment with optional extras. No warranty is made regarding specifications or otherwise. Specifications and equipmentare subject to change without notice. Consult your Epiroc Customer Center for specific information.

United in performance. Inspired by innovation.

Performance unites us, innovationinspiresus,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

Epiroc