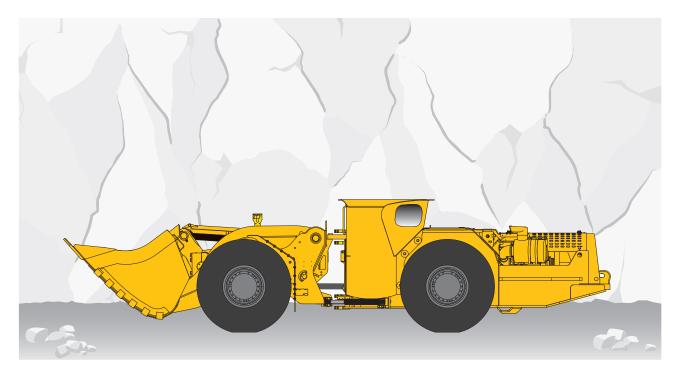
### Atlas Copco Underground loaders

# **Scooptram ST1030**

### **Technical specification**



The Scooptram ST1030 is a reliable 10 tonne underground loader with an ergonomically designed operator compartment for unparalleled productivity in any underground mine.

### **Features**

#### **Load frame**

- A Z-bar bucket linkage for efficient mucking and loading
- Easy to change bucket and cylinders with split-cap pin retention system
- Boom support and lock for increased safety during maintenance

#### **Operator compartment**

Ergonomically and spacious designed compartment for maximum safety and minimal operator fatigue with:

- Maximized legroom with the Atlas Copco Footbox
- Comfortable operator's seat offering improved ergonomic positioning, body orientation and generous shoulder and hip room

#### **Power frame**

- Atlas Copco unique powertrain including an upbox and a combined transmission and converter - allowing space for the Footbox plus a low and short powerframe
- Electronic transmission and engine control systems for

- smooth and precise shifting
- A high power-to-weight ratio complemented by a fully integrated powertrain, automatically matching the gear selection to the load - producing high tractive effort without wheel spin
- Stacked V-tube Core radiator and charge air cooler; easy to clean and replace damaged tubes

#### **General**

- Efficient serviceability with centralized maintenance points
- Rugged tapered roller bearing centre hinge
- Anti skid material at service access points
- Central manual lubrication
- Hydraulic hoses, electric cables and hot surfaces are well protected



### **Specifications**

#### CAPACITIES

LAPA	CHIES	
kg	Tramming capacity*	10 000
	Breakout force, hydraulic	17 900
	Breakout force, mechanical	13 900

#### MOTION TIMES

IVIOI	IOIA LIIVIES					
sec	Boom raising	8.0				
	Boom lowering	6.0				
sec	Dumping	21				

#### WEIGHTS

kg Approximate weight 27 200 Axle load, front end 13 700				
kg	Approximate weight	27 200		
	Axle load, front end	13 700		
	Axle load, rear end	13 500		

#### \*Tramming capacity with EOD bucket 9 000 kg.

#### **Engine**

- Cummins Diesel Engine QSL9 C250, EPA Tier 3/EU Stage
- Maximum torque at 1 400 rpm ....... 1 085 Nm
- Rock Tough exhaust purifier and silencer
- Dry type air cleaner
- Exhaust heat protection
- Remote engine oil drain
- Cooling package with V-tube Core radiator

#### Upbox

- Power transmitted through a 1:1 gear ratio box

#### Transmission and converter

- Automatic power shift with integral converter, fully modulated 4 speed shifting, forward/reverse
- Funk ......DF250

#### **Axles**

•	Kessler	D 102
•	Degree of oscillation	+/-10°
•	Differentials:	
	Front	Limited Slip
	Rear	No Spin

#### **Brakes**

- Fully enclosed, force cooled, spring applied hydraulic released, multiple wet discs at each wheel end

#### **Electrical system**

- System voltage ...... Start & accessories 24 V Alternator, high output......140 A
- Hydraulic warning system, tank & transmission level, tank temperature
- Rock Tough projection lights
- Isolation switch lockout

#### **Tyres**

- Tubeless, smooth, extra deep tread design for underground
- Wheel rim guards
- \* As applications and conditions vary, Atlas Copco recommends that the user consults with tyre suppliers to obtain the optimum tyre selection.

#### **Operator's compartment**

- Cabin/Canopy ISO ROPS/FOPS approved
- Side seated operator for bi-directional operation
- Two pilot operated joysticks for steering and dump and hoist control
- Grammer seat with retractable seat belt
- Open door retainer
- Door Interlock with steering and dump and hoist circuits
- External sound level according to ISO 6393 LwA 126dB (A)
- Sound level in cabin according to ISO 6394 Lpa 85dB (A)
- Whole body vibration value TBA

#### Hydraulic system

- Manual hydraulic tank fill pump
- Bucket float control
- Heavy duty gear type pumps
- Cylinders, double acting, chrome plated stems, diameter:

- Anti-siphon fuel supply
- Primary fuel filter ...... 7 µm

#### **System**

- Fire extinguisher, 6 kg
- Central manual lubrication

### **Grade Performance**

#### **GRADE PERFORMANCE - 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	Grade	-	-	-	-	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	-	-	-
	4th gear	26.7	23.3	18.9	12.7		-	-	-	-	-		-

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

#### GRADE PERFORMANCE - LOADED 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	Grade	-	-	-	-	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	-	-	-	-	-	-	-
	4th gear	24.9	19.1	-	-		-	-	-	-	-		-

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

## **Optional equipment**

#### Main frame

- Optional bucket sizes
- EOD buckets, recommended for truck loading
- High wear resistant bucket packages, Atlas Copco GET
- Shipping covers

#### Operator's compartment

- Enclosed cab
- Heater
- Air conditioner

#### System

- Ansul dual bottle fire suppression system with engine shutdown
- Ansul Checkfire, automatic fire suppression
- Electric fill pump for hydraulic oil
- Fire extinguisher 6 kg (extra)
- Lincoln auto lube with timer
- Wiggins fast fuel fill
- Wiggins fast hydraulic tank fill
- · Loadrite payload weighing system
- Atlas Copco Scooptram RRC (line of sight radio remote control)

#### **Electrical system**

- Amber strobe light power on
- · Audio-visual reverse alarm

#### **Controls and instruments**

- Blockout 3rd and/or 4th gears
- Brake release retriever tow hook
- Ride control

#### Power unit

- Fire resistant fluids
- Cold weather packages, 120V or 240V:
  - Block heater
  - Engine oil pan heater
  - Battery warmer
  - Fuel heater
  - Arctic oil

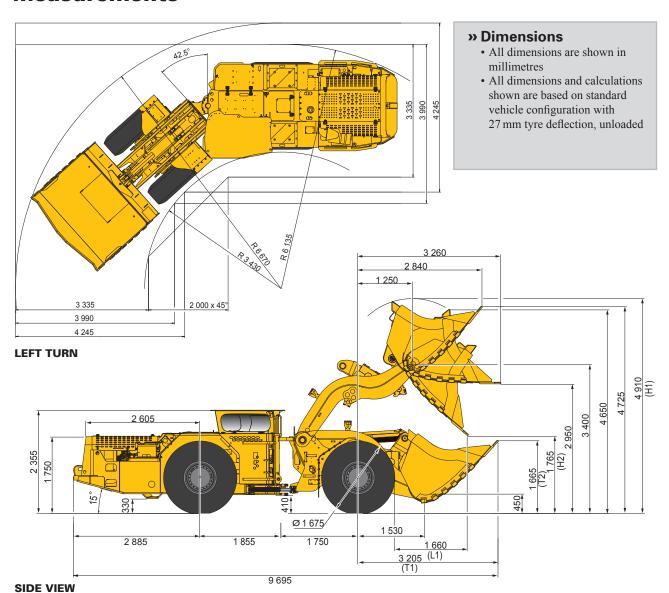
#### **Documentation**

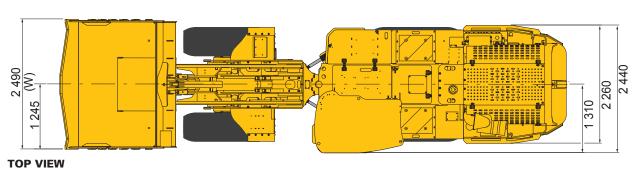
- · LinkOne parts book, CD
- LinkOne viewer
- Parts kit 1 000 hour consumables

#### **Parts and Services**

- Preventive maintenance kits
- Repair and rebuild kits
- Upgrade kits
- Face mechanics tool set
- · Shop mechanics tool set

### **Measurements**





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	2 490
Tramming position: Axle centreline to bucket lip (mm)	T1	3 268	3 204	3 155	3 098	3 054	3 014
Tramming position: Ground to bucket tip (mm)	T2	1 726	1 663	1 614	1 558	1 515	1 475
Reach dimension (mm)	L1	1 734	1 662	1 610	1 547	1 500	1 456
Raised position: Back height, max. (mm)	H1	4 917	4 910	4 895	4 907	4 878	4 879
Raised position: Bucket tip, height (mm)	H2	1 708	1 765	1 811	1 863	1 903	1 940

