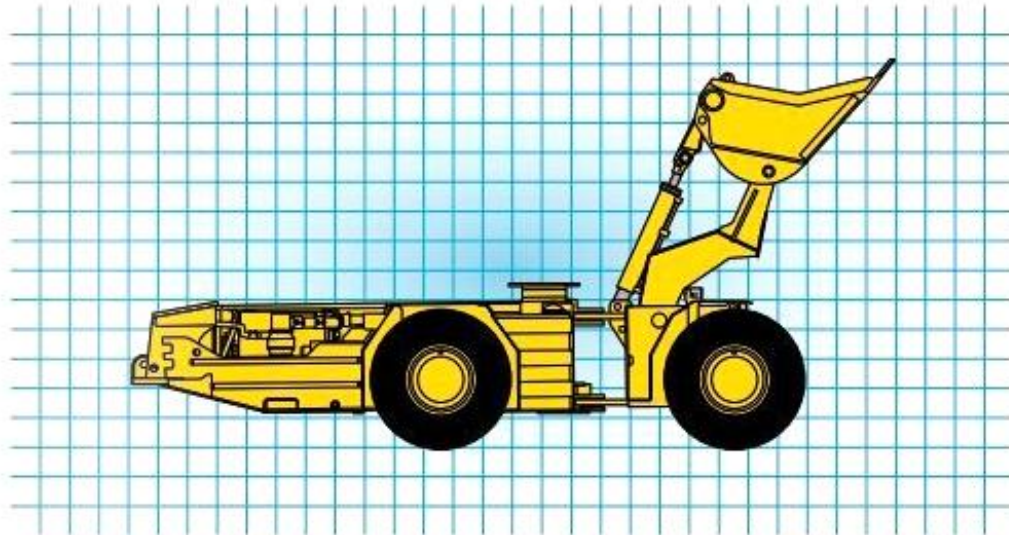


Atlas Copco Underground Loaders

Scooptram® ST600LP

Technical specification



The low-profile Scooptram® ST600LP “the Ratel™” is a robust LHD that is built for demanding low-seam applications where the back heights are as low as 1800 mm.

Features

Load frame

- Parallel boom design for low profile mine production.
- Low profile standard and EOD bucket designs for efficient mucking operations
- Heavy duty fender design with extra bump protection
- Safety hinge bar locking device to provide a safe working environment for operators and maintenance staff

Operator's compartment

- Low profile structure with reclined, low profile operator seat offering good access to machine control functions
- Side seated operator position for efficient bi-directional operation
- Enhanced operator visibility with the use of forward and rear viewing cameras each coupled to a cab mounted monitor. Cameras are linked to the transmission to provide good visibility in both tramping directions

Power frame

- Conventional and proven powertrain components featuring either an air or water cooled engine, a torque converter, a transmission and axles that are matched and provide excellent digging characteristics.

- A short length and low height frame reduces the chance of damage with the frame hitting the mine back thereby providing reduced maintenance costs and extended component life.

- Heavy duty, sloping engine covers reduce the risk of component and frame damage.
- Heavy duty fenders and extra bump protection give additional machine protection
- Three point mounting access for entry onto the machine
- High ground clearance protects the machine from damage

General

- Operator visibility is enhanced by 4 lights forward and 4 lights to the rear
- Long life roller bearing centre hinge design
- Central manual lubrication
- Neutral start and engine protection systems

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Specifications

Capacities	
SAE regulations	
Tramming capacity	6000 kg
Breakout force, hydraulic	9300 kg
Breakout force, mechanical	8688 kg

Motion times	
Boom	
Raising	4.7 seconds
Lowering	5.0 seconds
Bucket	
Dumping	3.6 seconds
Rolling back	3.2 seconds

Engine

- Deutz Diesel BF6M1013E
- MSHA Rating at 2,300 rpm 136 kW (185hp)
- Maximum torque at 1,400 rpm 667 Nm (492 ft-lbs)
- Number of Cylinders 6 in line
- Displacement 7.2 L (436 in³)
- Cooling Liquid (Water/Anti-Freeze)
- MSHA Part 7 ventilation
 - Vent Rate 495 m³/min (17,500 cfm)
 - Particulate rate 156 m³/min (5,500 cfm)

Exhaust system

Catalytic purifier plus exhaust silencer

Electrical system

- System Voltage 24 Volt starting, 24 Volt accessories

Transmission

- Modulated power shift, with 3 speeds forward/reverse
- Spicer Series 32000

Converter

- Single stage
- Spicer Series C-270

Axles

- Spiral bevel differential, full floating, planetary wheel end drive
- Rock Tough Series 406

Brakes

- Fully enclosed, force cooled, multiple wet discs at each wheel end
- Service, parking and emergency brakes SAHR system

Tires

- Tubeless, Nylon, smooth tread design for underground mine service
- Tire size, front and rear 17.50x25,20 ply STMS, L-5S

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

Steering

- Articulated hydraulic power steering, mono-stick control
- Turning angle 85° (42.5° each way)
- System pressure 15.9 Mpa (2,300 psi)

Hydraulic system

- Dump and hoist control Pilot operated, single lever
- Cylinders Double acting, chrome plated stems
- Cylinders diameter
 - Steer cylinders (2), diameter 89 mm
 - Hoist cylinders (2), diameter 152 mm
 - Dump cylinder (1), diameter 152 mm
- Pumps
 - Dump /hoist 258 L7min (34+34 gpm) at 2,400 rpm
 - Steering 129 L7min (34 gpm) at 2,400 rpm
- Filtration Suction line: 25 micron
- Dump /hoist system pressure 13.8 MPa (2,000 psi)

Fuel

- Fuel tank capacity 220 litres
- Hydraulic tank capacity 77 litres

Oscillation

- Rear axle, trunnion-mounted, self-lubricating bushings
- Degree of oscillation Total 14° (7° each side)

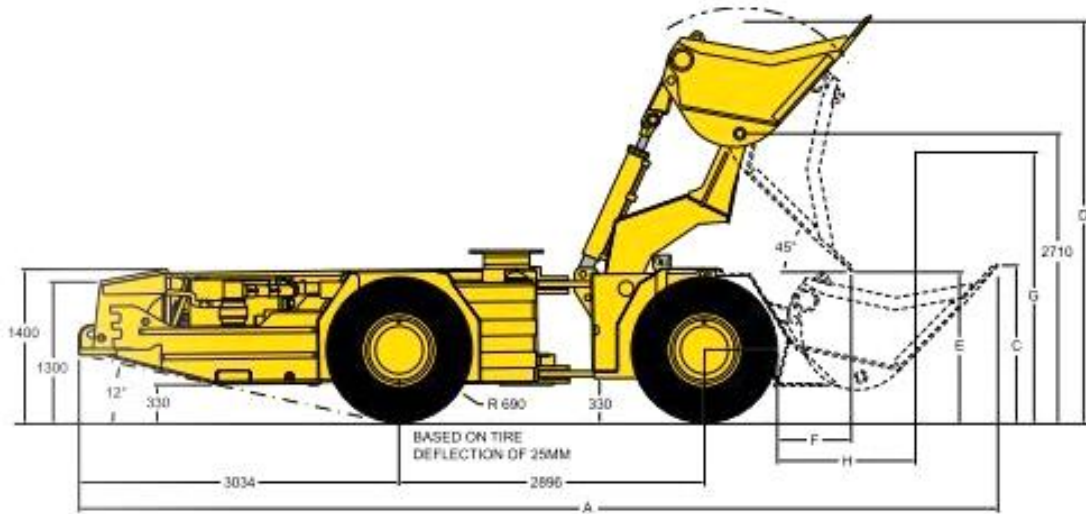
Operator's compartment

- Side seated operator for bi-directional operation. MSHA calculated canopy. Black and white, forward and rear camera viewing system with monitor

Dimensions and weights

• Approximate net weight 17 510 kg*

*Standard equipped vehicle with empty bucket



Side view

- Dimensions shown are based on standard vehicle configuration with 27 mm tire deflection.
- All dimensions are shown in millimeters.



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