

AMS-LP1

Low-Profile Underground Loader

5.5-tonne underground loader with an 86 kW drivetrain and integrated load-sensing hydraulics.



AMS colour and branding visual. The final machine configuration is specified with the quotation.

Configuration highlights

Integrated load-sensing valve bank; Quick-coupled hose connections for service access; Reduced interconnecting hose runs; Self-lubricating bushes at specified pivot locations

Engineering & project enquiries

Juan Gelderblom

BEng Mining | BEng (Hons) Mechatronics

066 229 3300 | juan@africanhosesolutions.co.za

African Mining Solutions | A division of African Hose Solutions

B-BBEE: Level 2

Capacity & dimensions

Technical specification

Characteristic	Specification
Nominal tramming capacity	5,500 kg
Standard bucket capacity	2.2 m³
Overall length, standard bucket	8,196 mm
Overall width	2,317 mm
Standard canopy height	1,600 mm
Low canopy configuration	1,500 mm
Bucket width	2,181 mm
Outer turning radius	5,569 mm
Inner turning radius, left / right	2,853 / 3,043 mm
Articulation angle	42.5°
Nominal ground clearance	188 mm

Dimensions apply to the standard bucket, tyres and specified canopy. The completed machine configuration is confirmed with the project specification.

Engine & powertrain

Technical specification

Characteristic	Specification
Engine	Deutz BF4M2012C
Rated output	86 kW at 2,200 rpm
Maximum torque	445 Nm at 1,500 rpm
Displacement	4.0 L
Cylinders	4, in line
Induction	Turbocharged and intercooled
Cooling	Liquid cooled
Air filtration	Two-stage dry filter
Torque converter	Dana Spicer C272
Transmission	Dana Spicer R32421 powershift
Gear selection	Hydraulic shift control with modulation
Gears	3 forward / 3 reverse

Axles, brakes & tyres

Technical specification

Characteristic	Specification
Front axle	Kessler D81, fixed
Front differential	Limited slip
Rear axle	Kessler D81, oscillating
Rear differential	No-spin
Service brakes	All-wheel wet multidisc, spring applied / hydraulically released
Brake circuits	Independent front and rear circuits
Parking & emergency braking	Spring-applied brake functions
Emergency release	Hand-pump release arrangement
Tyres	14.00-24, 20-ply, TT, L5S

Electrical & standard travel configuration

Technical specification

Characteristic	Specification
Electrical system	24 V
Alternator	24 V / 70 A
Batteries	2 x 12 V
Starter	24 V / 4 kW
Loaded travel, gears 1 / 2 / 3	3.0 / 6.0 / 9.8 km/h
Unloaded travel, gears 1 / 2 / 3	3.1 / 6.1 / 10.1 km/h
Fuel tank, standard configuration	100 L

Travel figures describe the standard drivetrain configuration. Final mass, hydraulic forces, cycle times and fuel consumption depend on the completed hydraulic package and are established for the agreed machine specification.

AMS hydraulic & service configuration

Technical specification

Characteristic	Specification
Hydraulic control	Integrated load-sensing valve bank
Hydraulic delivery	Demand-controlled flow and pressure
Hose connections	Quick couplings for planned service access
Hose layout	Reduced interconnecting hose runs
Bushes	Self-lubricating bushes at specified pivot locations
Design focus	Fewer service points, simpler access and improved maintainability

Final project specification

The agreed quotation defines the final build, options, mass, dimensions, operating limits and required site documentation. Component ratings are not complete-machine or vehicle ratings. Confirm the configuration for the intended operating environment.

Engineering & project enquiries

Juan Gelderblom

BEng Mining | BEng (Hons) Mechatronics

066 229 3300 | juan@africanhosesolutions.co.za

African Mining Solutions | A division of African Hose Solutions