

SV-1™

The Most Civilized Way to Escape Civilization™



The SV-1 is a two-passenger, all-terrain, all-climate expedition vehicle. Whether on an extreme trans-continental adventure or a weekend trip, the SV-1 allows self-sufficient living with no need for external utility hook-ups.

The SV-1's efficient design minimizes its impact on the environment. Aerospace and marine quality hardware and equipment are used where needed to ensure ultimate durability and reliability.

A Strong House Needs a Strong Foundation



The SV-1 is based on a Mercedes-Benz Unimog all-terrain truck chassis - perhaps the most well-developed, flexible, and reliable all-terrain truck in existence. Outstanding features such as "portal" axles (which raise the axles well above the centreline of the wheels for exceptional ground clearance), four wheel disc brakes, and excellent axle articulation help make virtually any destination accessible to the SV-1. A high-mounted engine air intake and pressurized driveline allows safe fording of water up to 32 inches deep. The Unimog is supported by the unrivalled Mercedes-Benz worldwide service network.

Equipped and Engineered to Perform and Persevere

The cabin of the SV-1 is designed to provide living comfort for months on end. The SV-1 features amenities such as running hot, cold, and purified drinking water; a washroom with shower, sink and toilet; and a galley equipped with a non-pressurised alcohol stove and highly efficient refrigerator. A diesel-fuelled heater warms the cabin while the vehicle's engine or an optional diesel-fuelled engine heater provides hot water. Using no propane, heavy gas cylinders and fragile plumbing are eliminated resulting in a much safer off-road vehicle with universal fuel availability. The electrical system incorporates advanced solar and automatic battery charge control technology, delivering extended independent operation. Solar energy is used to charge cabin batteries and maintain the independent engine starting batteries. Cabin batteries can also be charged by the engine alternator. For low-sun situations or added capacity, a wind generator is optionally available.



Not Built Like an Ordinary Truck

The living cabin construction of the SV-1 is unique in its durability and engineering elegance. The upper and lower halves of the shell are each moulded as one seamless component. Glass-fibre-reinforced inner and outer layers are bonded to structural foam and integral steel and wood reinforcements at critical points to form a composite monocoque structure. This provides great inherent strength and resistance to vibration compared to other, more usual methods of truck-box construction. When bonded together the halves form an extremely strong and rigid body shell able to withstand harsh off-road conditions. The SV-1's living cabin is mounted to the chassis using a torsion-free 3-point system with flexible rubber bushings - allowing for the articulation- enhancing frame twisting which is an important design feature of the Unimog.

SV-1 Specifications

Mercedes-Benz Unimog U100L All-Terrain truck chassis:

Engine: Mercedes-Benz 2.9L Intercooled Turbo-Diesel Engine. 127HP, 206Lb-Ft. torque

Power Transmission: 5 speed manual transmission with two-range transfer case. On-the-fly pneumatically engaged four wheel drive system with lockable front and rear differentials.

Brakes: Pneumatically assisted hydraulic dual-circuit 4 wheel disc brakes.

Suspension: Solid Portal Axles F/R with progressive-acting coil springs and telescopic dampers. 16" ground clearance to axle case. Hydraulically assisted power steering. Turning circle 42'.

Tires: 5x 335/80R20 Michelin XZL off-road radials on 11"x20" high-strength steel rims.

Miscellaneous Equipment: Compressed air system (200psi, engine driven with storage tanks) on-board for tire inflation, air tools, etc. Extra-large fuel tanks for long range (60 US gal. total). Heavy-duty brush guard/light bar/winch (12000 lb. cap). Auxiliary driving and fog lamps.

Overall dimensions (Unimog with cabin body): Length:18'6" Width: 6'10" Height: 10'1".

Living Cabin Materials and Construction:

Aerodynamically-shaped glass-fibre reinforced composite shell, thermally insulated. Flush-design double-insulated windows and roof hatches with integrated night blinds and insect screens.

Dimensions: 10'L x 6'8"W External. 6'3" standing room in main area.

Interior Fittings and Equipment:

Plumbing: Running hot and cold water system integrated with cabin and engine heating system. Water storage capacities of 60 US gal. fresh, 10 US gal. grey, 6 US gal. hot.

Washroom: Space-efficient stand-up shower stall with integrated self-contained cassette toilet and fold-away wash basin.

Galley: Stainless two-burner non-pressurized alcohol stove, high-efficiency 12V, 2.12 cu. ft. refrigerator. Stainless 14" x 16" sink. Single lever ceramic valved faucet. Stainless steel drinking water purification system with dedicated ceramic valved dispenser faucet.

Electrical: Autonomous 12V solar/electric system. 2x90W roof-mounted solar panels. 3x80 amp/hr deep-cycle, heavy-duty, sealed batteries. Automatic, microprocessor-controlled charging and system monitor. High-efficiency 12V fluorescent cabin lighting.

Audio: Tuner/cassette player, six-disc CD changer, wireless remote.

Design, features, and specifications subject to change without notice.



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Safari Vehicles Manufacturing Inc.
1160 - 21331 Gordon Way
Richmond, B.C. Canada V6W 1J9

Tel: 604 276 9881
Fax: 604 276 9885
E-mail: info@safarivehicles.com
www.safarivehicles.com