Light Strike Vehicle



The Light Strike Vehicle (LSV) is an air-certified ground mobility platform for the V-22 Osprey Tiltrotor aircraft. A member of the family of Internally Transportable Vehicles (ITV), the LSV offers unmatched safety, agility, mobility and payload capacity in a compact space envelope. Internal transportability allows US forces to take full advantage of the 270 knot forward air speed of the Osprey transporting internal loads.

The LSV is equipped with technology and safety features throughout to fit the demanding internal dimensions of the Osprey, while providing an agile mobility platform to meet Light Strike and other utility needs. Fitted with either the M2 .50 cal, a Mk-19 or a Mk-240G machine gun at the rear gunner's ring, the LSV is designed to carry adequate fuel, water, ammunition, and food for 3-day mission needs, while safely transporting a crew of four. Equipped with a 132 bhp four-cylinder turbo

diesel engine tuned to run on JP-8 or JP-5 fuel, the LSV provides the needed horsepower, mobility, and 2,000 lb. payload capacity to meet the mission needs of warfighters deployed in the V-22.

Full occupant restraint systems and foldable/stowable Roll-Over Protection System (ROPS,) along with the adjustable ride height suspension system, ensure maximum occupant safety. Run-Flat rims and tires rated for 20 miles of travel at 35 mph guarantee the mission will not be interrupted for a flat tire. Full weather enclosure, onboard heater, power steering and brakes, and padded Kevlar, frag-resistant, armor seats provide occupant safety and comfort meeting FMVSS standards, while reduce fatigue on protracted missions. Four-wheel steering enables tight turning radius and allows line-up for V-22 loading.



LSV - Light Strike Vehicle

The Utility Vehicle (UV) variant of the LSV eliminates the aft gunner's ring in favor of a pickup style bed, allowing for the transport of maximum supplies and four crew members. Future variants may include medical litter transport, ground UAV station trailer, and meteorological station trailer.

DIMENSIONS AND CAPACITIES

• Length (OAL)	163.0''
• Width	60.0''
Height inside V-22 (folded/stowed, suspension lowered)	
• Height outside V-22 (fully rigged; suspension at road height setting)	72.5''
• Height outside V-22 (suspension at high setting)	75.5''
Gross Vehicle Weight	6,536 lbs.
Vehicle Curb Weight	4,536 lbs.
Payload:	2,000 lbs.
Fording depth (no kit)	30.0"
• Fuel: IP-8 Commercial Diesel DF-2 IP-5	

PERFORMANCE

- Vehicle top speed (paved roads) 65+ mph
- 132 bhp @ 3,600 rpm / 230 ft lbs. torque @ 2,000 rpm

• Fuel Capacity: 24.0 gallons total from twin 12.0 gallon fuel tanks

• "Guns Up" in less than I minute

FEATURES

- 2.8 liter inline 4 cylinder SOHC 12-valve turbo diesel engine (Navistar Defense)
- General Motors model 4L70E 4-speed automatic transmission with overdrive
- Chrysler 2 speed manual transfer case (2WD Hi/Lo and 4WD Hi/Lo)
- 24V DC power system with dual 12V sealed batteries / 175 amp waterproof alternator
- Air Ride® gas bladder suspension, height-adjustable on the fly via dash control panel
- Central Tire Inflation System (CTIS) controlled via dashboard panel
- Onboard electric air compressor supplying suspension and CTIS systems
- Four Wheel Steering (4WS) via joystick control with auto-centering
- Run-Flat® rims, inserts and tires
- Forward/Rear 2" hitch receivers for 9,500 lb capacity winch
- "Blackout Lights", support NVG night time operation
- Power steering/ Power four wheel disc brakes
- Split folding windshield with wipers
- Full weather enclosure and heater for crew comfort
- Padded Kevlar frag-resistant armor seats
- NATO "slave cable" and receptacle
- 24 ea. forged steel tie-down locations to support internal aircraft tie-down
- Transportable in V-22, CV-22, CH-47, CH-53, C-5 and C-130 aircraft
- External lift capable

GENERAL DYNAMICS

Ordnance and Tactical Systems







