TMSI Tactical Mobility Solutions International

STRIKE VIPER SV6

HP-LSV - Heli-Portable Light Strike Vehicle

Inserted Fast. Engaged First.



The Era of Heavy Force Has Closed.

- Heavy armour cannot keep pace with the tempo of modern special operations. Conventional ground routes are contested, predictable, and increasingly lethal. The decisive movement is now vertical, fast, and small.
- Light helicopter-portable strike vehicles are replacing legacy 4×4 platforms across allied special-operations forces. The Strike Viper SV6 is the purpose-built answer for this doctrine.
- The SV6 is engineered around three operational mandates: rapid deployment, deep reconnaissance, and asymmetric engagement against critical hostile assets. It is a force multiplier engineered for operational tempo and precision.

SPEED

- 160 km/h governed. 0–100 km/h in 11.5 s
- Power-to-weight 61 hp/tonne at GVM
- Configurable 120–160 km/h per KUR.

INSERTION

- C-130 deployable
- Sling-load capable
- Internal carry compatible
- CH-47 sling

ENGAGEMENT

- Mounted weapons
- Drone-integrated
- ATGM-capable
- Crew of six

DOCTRINAL SHIFT

Speed is the new armour. Insertion has replaced approach.

Strike Viper SV6 – Platform Overview

4×4 Heli-Portable Light Strike Vehicle · Six Occupants · Purpose-Built

Drive Configuration	4×4 Permanent / Part-Time AWD
Crew	6 occupants including driver
GVM	3,280 kg
Allowable Payload	1,300 kg (46% safety margin)
Power-to-Weight (at GVM)	61 hp / tonne
Frame Rating	4,950 kg (50% safety margin at GVM)
Air Deployable	C-130 sling-load and internal carry. CH-47 sling.

600+ km
OPERATIONAL RANGE (ROAD)

1,980 kg
UNLADEN WEIGHT (WITH FUEL)

160 km/h
GOVERNED TOP SPEED

One vehicle. Six crew. Force projection from a helicopter to engagement in a single tactical cycle.

ENGINEERING · CHASSIS

Spaceframe-First. Not Donor-Chassis-Plus.

TMS-engineered spaceframe · Toyota OEM componentry · Proprietary anti-corrosion coating



- A proprietary initial coating sequence extends structural service life and resists corrosion under sustained operational exposure. The platform is engineered for a 20-year service life.

- The Strike Viper SV6 spaceframe is engineered from first principles, not adapted from a commercial donor chassis. Toyota OEM components are integrated into a TMS-built structural frame rated to 4,950 kg, providing a 50% safety margin at GVM.

PURPOSE-BUILT SPACEFRAME

- Rated to 4,950 kg.
- 50% safety margin at GVM.
- Designed for 20-year platform life.

OEM LHD / RHD

- Available in Left-Hand Drive (LHD) or Right-Hand Drive (RHD) configurations.
- Eliminates the conversion risk and cost common to competitor platforms.

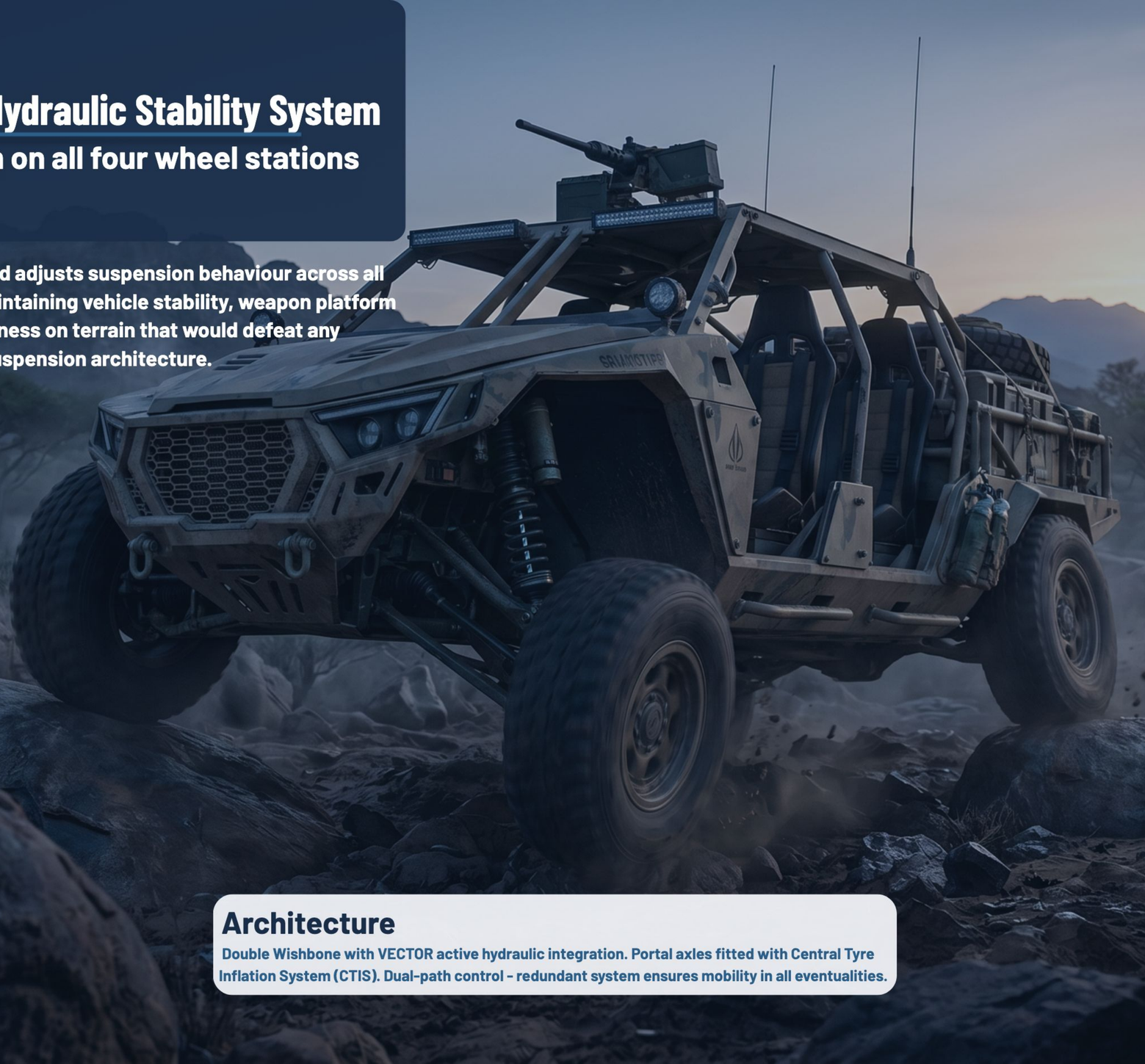
PROPRIETARY COATING SEQUENCE

- TMS-developed initial coating sequence engineered for sustained operational corrosion resistance.

VS3® Vector Dynamic Hydraulic Stability System

Active hydraulic platform on all four wheel stations

VECTOR continuously monitors and adjusts suspension behaviour across all four wheel stations in real time, maintaining vehicle stability, weapon platform accuracy, and crew effectiveness on terrain that would defeat any conventional suspension architecture.



ADJUSTABLE RIDE HEIGHT

- On-the-fly: 1,725 mm to 2,025 mm.
- Low profile for concealment or air transport
- Max clearance for terrain.

AUTOMATIC LEVELLING

- Self-levelling on the gradient is critical for accurate weapon deployment and crew safety on side slopes.

WEAPON PLATFORM LOCK

- Suspension locks in firing mode.
- Accurate weapon deployment on uneven ground.
- No preparation required.

SELF-RECOVERY MODE

- Active suspension assist in sand and mud operations.

FAIL-SAFE DEFAULT

- Reverts to conventional suspension on electrical failure.
- Mobility is never catastrophically lost.

REAL-TIME STABILISATION

- Active pitch, roll and yaw control at speed.
- Crew fatigue significantly reduced on extended operations.

Architecture

Double Wishbone with VECTOR active hydraulic integration. Portal axles fitted with Central Tyre Inflation System (CTIS). Dual-path control - redundant system ensures mobility in all eventualities.

Toyota 1GD-FTV – How the Power Reaches All Four Wheels

201 hp · 500 Nm · 48V mild-hybrid assist · 61 hp/tonne at GVM

ENGINE

- Toyota 1GD-FTV. 2,755 cc Inline 4 Diesel.
- 201 hp / 150 kW.
- 500 Nm @ 1,600 rpm.
- Bore × Stroke 92.0 × 103.6 mm.
- Euro 2.
- No AdBlue.

HYBRID ASSIST

- Mild hybrid.
- 12 kW + 65 Nm at 48V.

TRANSMISSION

- 6-Speed Automatic AC60F.
- Paddle shift.

DRIVE

- 4×4 AWD / Part-Time 4WD.
- Max reverse 30 km/h+.

PORTAL AXLES

- Fitted.
- Central Tyre Inflation System (CTIS) integrated.

FUEL

- 80 L TMS self-sealing tank.
- <9 L/100 km consumption.
- Range road: 600+ km.
- Cross-country: 420+ km.



Euro 2. No AdBlue. Globally fuelled and globally serviced. The Strike Viper is supportable wherever Toyota parts go.

CREW PROTECTION · SURVIVABILITY

Six-Crew Configuration - Built Around the Operator

CREW CONFIGURATION	
Crew Capacity	6 occupants including driver
Cab Configuration	Open / Enclosed (modular doors, removable enclosure)
Seat Configuration	FIA-approved seat belts. 3-point or 5-point options.
Climate Control	Dual-zone automatic air conditioning, front and rear, standard
ROPS	TMS purpose-built Roll-Over Protection System
Fuel Tank	Self-sealing, 80 L

TOYOTA OEM SAFETY & DRIVER AID SUITE - FITTED AS STANDARD
ABS, EBD, BA/BAS - braking safety suite
VSC/ESC, TRC/ATRC - stability and traction management
HAC, DAC - gradient management, uphill and downhill
TSC - trailer sway control
Rear LSD - rear limited slip differential
Pre-Collision System / AEB - autonomous emergency braking
Adaptive Cruise Control (ACC)
Lane Departure Warning (LDW) and Lane Keeping System (LKS)
Blind Spot Warning / Monitor (BSW/BSM)
Rear Cross-Traffic Alert (RCTA)
Multi-Terrain Select (MTS) and Driver Mode Select (DMS)
Safety Sense Radar, Emergency Brake Signal
Reverse Camera, Park Distance Control, Proximity Sensor
TPMS - Tyre Pressure Monitoring
Blackout Lighting and Infra-Red Lighting systems
DRL with Blackout Mode, LED Headlights with auto-levelling

Every Toyota OEM safety and driver-aid system is retained and integrated. Operator workload is reduced, not added to.

WEAPONS · INTEGRATION

Mission Capability - Mounted Fires, Drone-Integrated, ATGM-Capable

KUR-dependent weapon integration · No proprietary mount required

LOW OBSERVABLE SIGNATURE

- Reduced acoustic, thermal, and visual signature.
- Coupled with high speed, the platform is largely immune to slow, heavy-armour counter-response.

DRONE / UAS INTEGRATION

- Launch, storage, and charging capability.
- KUR-dependent integration.

MACHINE-GUN MOUNT

- Firing-on-the-move capability confirmed.
- Hardpoints engineered into the spaceframe at the design stage.

ATGM CAPABLE

- Anti-tank guided missile system integration.
- KUR-dependent.



The Strike Viper SV6 is a force multiplier engineered for operational tempo and precision.

PLATFORM · DIFFERENTIATORS

Eight Decisions That Set the SV6 Apart

The Strike Viper SV6 is not an adapted commercial platform. It is a purpose-built tactical asset, engineered from first principles to deliver decisive operational advantage across mobility, firepower, and through-life supportability.

STRATEGIC PARTNERSHIP

- Local manufacture and support.
- Vehicle can be assembled in-country with local industry partners
- Meeting local content and government procurement requirements with no supply chain risk.

ENGINEERING

- Spaceframe lifespan
- Purpose-built spaceframe chassis rated to 4,950 kg with a proprietary initial coating sequence engineered to extend structural service life.

OPERATIONAL READINESS

- OEM Right Hand Drive.
- Native OEM RHD configuration from the Toyota donor platform.
- No conversion required, eliminating a common risk and cost factor associated with LHD-converted competitor platforms.

MISSION FLEXIBILITY

- Optional doors.
- Modular door configuration provides mission-adaptable protection and access options.
- Removable enclosure architecture allows rapid reconfiguration between open and enclosed roles without structural modification.

SUPPORTABILITY

- COTS architecture.
- ≥80% commercial off-the-shelf components underpinned by the Toyota global parts network.
- Minimal logistics footprint, global serviceability, inherent obsolescence proofing throughout the 20-year service life.

PROPRIETARY TECHNOLOGY

- VECTOR active suspension.
- Fully active hydraulic stability system delivering identical ride quality laden or unladen.
- Real-time pitch, roll and yaw stabilisation.
- Suspension lock in firing mode.

CREW CAPABILITY

- Diesel / air conditioning.
- Toyota 1GD-FTV diesel - Euro 2, no AdBlue, globally available.
- Dual-zone auto air conditioning front and rear as standard, ensuring crew operational effectiveness across all climate conditions.

PERFORMANCE / PAYLOAD-TO-GVW RATIO

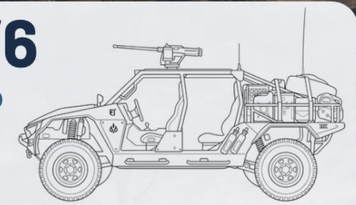
- 1,300 kg allowable payload against a 3,280 kg GVW, approaching a 1:1 payload-to-weight capability.
- VECTOR load indicator actively prevents overloading and centre-of-gravity imbalance.

VARIANTS · STRIKE VIPER FAMILY

One Architecture. Three Configurations.

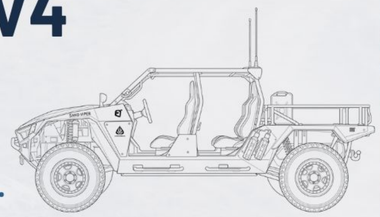
The Strike Viper family is built on a single architecture, scaled for crew count and mission profile. SV6 is the six-crew assault and reconnaissance configuration. SV4 is the four-crew reduced-footprint variant. SV2 is the two-crew rapid-strike configuration. All three share OEM componentry, service intervals, and parts.

STRIKE VIPER SV6



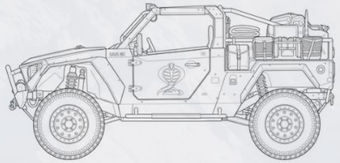
- HP-LSV-SV6. 6 crew. Assault and deep reconnaissance.
- Mounted weapon. Drone integration. KUR-configurable.

STRIKE VIPER SV4



- HP-LSV-SV4.
- 4 crew.
- Reduced footprint.
- Same architecture and components.
- Higher payload-to-weight ratio.

STRIKE VIPER SV2



- HP-LSV-SV2.
- 2 crew.
- Rapid-strike configuration.
- Helicopter-portable in the most restricted internal-carry envelopes.

SPECIFICATIONS · FULL TABLE

Strike Viper SV6 – Full Specifications

PLATFORM

Overall Length	5,300 mm (KUR)
Width	2,050 mm
Height	1,725 mm min / 2,025 mm max (VECTOR)
Wheelbase	3,085 mm
Front Overhang	770 mm
Rear Overhang	885 mm
Ground Clearance	280 mm min / 430 mm max
Cargo Area	1,950 × 1,400 × 800 mm (W×L×H)
Max Rear Deck Payload	800 kg

MASS AND PAYLOAD

Unladen Weight (with fuel)	1,980 kg
GVM	3,280 kg
Allowable Payload	1,300 kg (46% safety margin)
Frame Rating	4,950 kg (50% safety margin at GVM)
Angle of Approach	60°
Angle of Departure	55°
Under-Vehicle Angle	146°

PROTECTION AND SAFETY

ROPS	TMS purpose-built Roll-Over Protection System
Seat Belts	FIA-approved, 3-point or 5-point options
Self-Sealing Fuel Tank	Standard
Blackout / IR Lighting	OEM-fitted
Air Conditioning	Dual-zone front and rear, automatic

POWERTRAIN

Engine	Toyota 1GD-FTV
Displacement	2,755 cc Inline 4 Diesel
Bore × Stroke	92.0 × 103.6 mm
Power	201 hp / 150 kW
Torque	500 Nm @ 1,600 rpm
Power-to-Weight (GVM)	61 hp/tonne
Hybrid Assist	Mild hybrid 12 kW + 65 Nm (48V)
Emission Standard	Euro 2 (no AdBlue)
Transmission	6-Speed Automatic AC60F with paddle shift
Drive	4×4 AWD / Part-Time 4WD
Max Speed	160 km/h (governed, electronically limited)
0-100 km/h	11.5 s
Max Reverse Speed	≥30 km/h
Fuel Tank	80 L (TMS self-sealing)
Consumption	<9 L/100 km
Range Road	≥600 km
Range Cross-Country	≥420 km

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Strike Viper SV6

Inserted Fast. Engaged First.

The era of heavy armour dominance is over for rapid-force operations. Speed is the new armour.



PURPOSE-BUILT

- Spaceframe rated to 4,950 kg.
- Not an adapted commercial platform.

BUILT FOR INSERTION

- C-130 deployable, sling-load and internal carry.
- Six crew.
- 160 km/h.

GLOBALLY SUSTAINED

- Toyota OEM components.
- 170+ country parts network.
- No proprietary supply chain.

BUILT FOR ENGAGEMENT

- VECTOR active suspension.
- Weapon platform lock.
- Drone-integrated.
- KUR-configurable.