



AL-THALAB

LONG RANGE PATROL VEHICLE

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Al-Thalab Concept

Jankel are specialists in the design, development, manufacture and Through Life Support of tactical vehicles for short and long range operations. The Al-Thalab Long Range Patrol Vehicle (LRPV) was conceived in response to requirements from Special Forces users who undertake force projection, surveillance, reconnaissance and patrol missions.

The vehicle specification and capability has evolved each occasion it has been supplied, it has been supplied to 8 customers from Europe, Asia, Africa and the Middle East and has proven itself in these terrains and conditions.

The Al-Thalab uniquely offers the users the following:

- System flexibility tailored to the key user requirements of payload, crew size, range, air-transportability and armour protection requirements.
- The vehicle has a modular design, enabling the vehicle to be configured as per the individual user requirement or the individual mission to optimise the vehicle capability.
- Based on a Toyota Land Cruiser pick-up it is the only truly global platform which delivers considerable logistics, maintenance and cost benefits at home and in theatre.
- Simple electrical and mechanical systems matched to the environment to which the user operates in and the on-board mechanical skills.

Each new user benefits from years of development, evaluation and crucially countless hours of operational use to create a capability in line with their needs.





AL-THALAB SPECIFICATIONS

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Al-Thalab Automotive Specification

A commercially available heavy-duty Toyota Land Cruiser Pickup is significantly upgraded to cater for the increased weight and enhanced requirements of the envisioned mission.

Dims	<i>Length</i> 5600 mm	<i>Width</i> 1865 mm	<i>Height</i> 1930 mm
Weights	<i>GWV</i> 4350 - 4800 kg	<i>Unladen</i> 2800 - 3000 kg	<i>Payload</i> 1350 - 2000 kg
Driving	<i>Fuel Capacity</i> 180 Litres	<i>Range</i> up to 1200 km	<i>Cruise/Max Spd</i> 120/140 kph

- Payload is subject to vehicle specification as defined by the user requirement
- 5-speed manual gearbox with heavy-duty clutch; automatic available as option
- Heavy-duty front brakes (callipers, discs and pads); hand-brake moved to propshaft
- Heavy-duty suspension (springs, dampers and steering damper), wheels and tyres
- Heavy-duty wheels and tyres
- 180 litre fuel capacity: 2 x 90 litre fuel tanks

- **Diesel Engine** 4.2 Litre, 6 Cylinder Turbo-Charged Engine
(168 bhp @ 3800 rpm / 380 Nm @ 2200 rpm)
(Available in both left and right hand drive models)

- **Petrol Engine** 4.0 Litre, V6 Engine
(236 bhp @ 5200 rpm / 361 Nm @ 4000 rpm)
(Available in left hand drive model only)

- **Diesel Engine** 4.5 Litre, V8 Turbo-Charged Intercooled Engine (Euro IV compliant)
(202 bhp @ 3800 rpm / 430 Nm @ 2200 rpm)
(Available in right hand drive model only)





AL-THALAB SUPERSTRUCTURE

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Body System

A tubular superstructure is mounted on the vehicle chassis with flexible interface joints to enable the frame to flex with the chassis over rough terrain. This tubular superstructure is the core of the vehicle system, onto which all the modular equipment is fitted to complete the vehicle specification.

Frontal Engine Area

- Winch bar and front wing protection bars with winch, composite bonnet and wings with storage areas and tiedowns.
- Light protection grilles and additional driving lamps.
- Shatterproof, folding and removable mirrors.
- All-steel winch bar.



Frontal Crew Area

- Commanders seating position, 4-point harnesses, elevating seat and swing arm mounting point.
- Drivers seating position with harness.
- Ruggedised environmental dashboard with waterproofed console, full militarised blackout system and map reading lamps.
- Two piece, folding and removable laminated glass screen and wiper system.
- Hot air body heating - vehicle heating controls with flexible tubes.
- Universal storage bins (x4) and personal weapon mounts (x2) next to commander and driver.
- Ancilliary equipment mounts behind seats and GPS/radio slots in front of commander.





AL-THALAB SUPERSTRUCTURE

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Body System (continued)

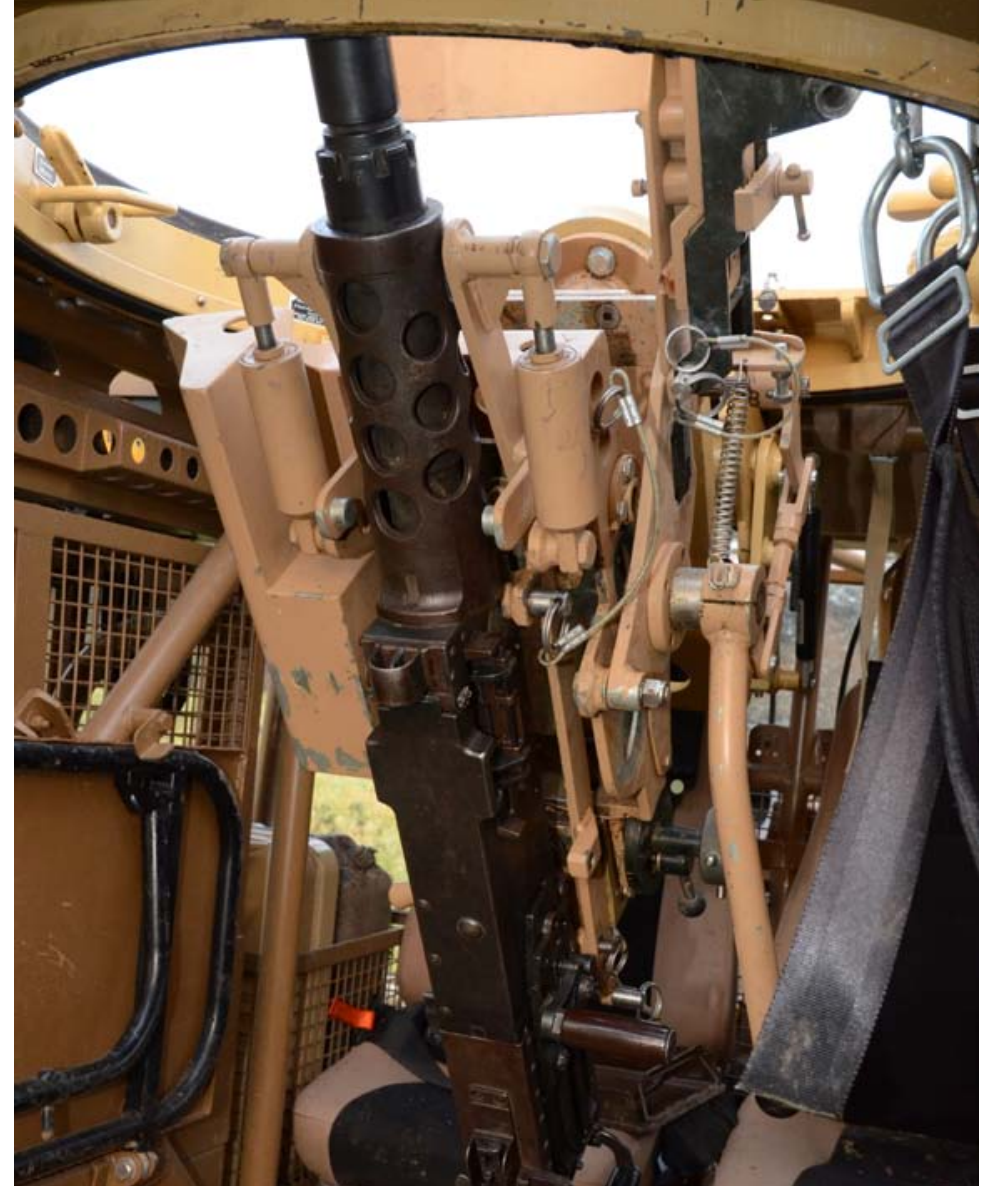
Rear Crew and Cargo Area

- Weapon ring interface plate with stowage positions either side for ammunition canisters and general stowage bin behind ring.
- Folding standing-plate for operator of traversing ring.
- Storage bins along side of vehicle, with two additional large removable storage cages on either side.
- 2 rear facing seating positions with 4-point harnesses, complete with side facing functionality and personal weapon mounts.
- Two removable universal storage cages at side of each seat.
- Hot air body heating which vents through flexible tubes for crew.
- Rear load area equipped with tie down points.
- Optional ditch crossing ladders or assault ladders.

Weapon Support Systems

The following weapon support systems are available, tailored to the make and model of the user's weapons.

- Geared, braked traversing ring. Mount for 7.62 mm GPMG, 12.7 mm Browning (.50 caliber) and 40 mm AGL.
- Swing arm mount for 7.62 mm GPMG to commanders position.
- Traversing and elevation function to multi-mount.
- Mounts for sniper systems and anti-tank weapons.
- Fold-into-ring functionality of multi-mount.
- LAW integration.





AL-THALAB SUPERSTRUCTURE

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Body System (continued)

Tailgate

- Side-hinged, locking tailgates, operable from inside or outside.
- Tailgate holds either two spare wheels, two storage cages, or one of each.
- Rear driving lights, NATO tow hook, illuminated number plate and rear convoy light.

Electrical System

A universal electrical loom is installed into the vehicle which provides power to the lighting systems and auxiliary equipment, with connections available for future equipment fits.

- Heavy-duty 110 amp 12 volt alternator with 2 deep cycle 12 V gel batteries, including voltage sensing and automatic split charging system.
- Dash mounted voltmeter for 12 V primary, 12 V auxiliary and 24 V batteries (if fitted).
- Battery cut-off switches with a slave start system mounted in front wing.
- Military lighting switch incorporating standard lighting, blackout lighting and convoy lighting.
- 12 V / 24 V (if fitted) power outlets around vehicle.
- 7-Pin N-type trailer power socket and connector for NATO socket.
- Keyless ignition or conventional key start as required.
- Bespoke switch panel for start switch/ignition, emergency battery start, fog lights, spot lights, windscreen wash/wipe, heater fan and auxiliary equipment controls.

Upgrades to this system include 24 V alternator and power, inverters to provide 220 V / 240 V, NATO tow sockets and other systems as per customer request.





AL-THALAB ENHANCED CAPABILITY

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Additional Capability

The Al-Thalab has a comprehensive base specification to enable it to fulfil most user requirements. In addition to this, the Al-Thalab can be further enhanced by the addition of optional equipment as required by the user.

Example options include:

- Electronic differential lockers for the front and rear differentials.
- Long range fuel tank to provide a total 250 litre capacity.
- Air-compressor with outlets on either side of vehicle.
- Infra-red headlights and tail follow light with low IR reflective paint.
- NATO trailer-towing power connector.
- Multi-function removable soft-top or crew sunshade.
- Smoke launchers mounted front and rear.
- Recovery equipment as required.
- Water boiler / food heater.
- CH-47 underslung kit.
- Sea, land and air transportability tie down schemes.
- Urban assault ladders to side of vehicle (8 metre reach).
- Modular armour for ballistic and blast protection.

Further equipment as requested by the user.





AL-THALAB INTEGRATED LOGISTICS SUPPORT PLAN

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Logistics Support

The Al-Thalab benefits from being based on the Toyota LandCruiser, a vehicle in extensive military and commercial service worldwide, and retains simple electrical and mechanical systems and technology.

For this reason, much of the risk and cost associated with the life cycle support of the Al-Thalab is greatly reduced.

The Al-Thalab is arguably the easiest and lowest cost vehicle of this type to support anywhere in the world, either in the users' country or on international operations.

The logistics support element of each contract is worked out in collaboration with the user requirements. Jankel takes into account user support capabilities, current vehicle support strategy and future objectives for life cycle costs and vehicle availability.

Aspects of a support proposal would include:

- Forming a relationship with a local Toyota service partner to develop parts supply, service, maintenance, warranty and general repair functions to the users
- Provision to the users and service partner of full documentation on the base vehicle and Al-Thalab system to include workshop manuals, illustrated spare parts catalogues, end user manuals and revised maintenance and check schedules
- Provision of spare parts scaling packages for stocking, ongoing in-country use, international deployments, etc.
- Delivery of maintainer, user familiarisation and refresher training



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