

COMMERCIALLY ARMoured VEHICLE



CAPABILITY DESCRIPTION

GT-CAV300 // BASED ON TOYOTA LAND CRUISER 300

COMMERCIALLY ARMOURED VEHICLE

DESIGN AND SAFETY

BALLISTIC CERTIFICATION AND TESTING

- In addition to the CERTIFICATION of VR7 and VR9 ballistic levels, the VR7 and VR9 Land Cruiser 300 are designed to better survive the blast and fragment threats that are common in operations today. The blast tests were carried out on our test vehicles after the ballistic test where performed. There were no repairs made to the vehicle between any of the tests.
- The ERV Edition 3 blast tests are conducted with use of biofidelic dummies, which reflect human body with bones, ligaments, skin, muscles and soft tissues. The maximum pass rating is 3 stars which means that there was absolutely no damage to the biofidelic dummies present in the vehicle during the various blast tests. A rating below 3 stars means that the vehicle occupant would suffer various injuries including bone fractures and torn ligaments.



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DESIGN AND SAFETY

PROTECTION LEVEL VR-7 as per BRV EDITION 3

- Ballistic protection on passenger cabin is VR-7 as per BRV EDITION 3, certified in Germany by the "German Beschussamt" with enhanced blast and floor protection and enhanced roof protection.
- The blast frame and cabin floor act as a blast attenuating double skin, energy absorbing mechanism and provides exceptional safety characteristics for the occupants of the vehicle.

	Armouring Level	Round/Treat
Ballistic Resistance:	VR-7 as per BRV Edition 3	7.62x51 NATO M80 / 5,56x45 SS109
Blast Protection:	Tested/Certified to:	12.5kg PETN Plastic Explosive
Floor Protection:	AP Mine Protection	3x1 DM31 AP Mine
	Tested/Certified to:	2x2 HG85 Hand Granades under Vehicle
Roof Protection:	Tested/Certified to:	2x2 DM51 Hand Granades
		3x1 HG85 Hand Granades on the Roof

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DESIGN AND SAFETY

PROTECTION LEVEL VR-9 as per BRV EDITION 3

- Ballistic protection of passenger cabin is VR-9 as per BRV EDITION 3, certified in Germany by the "German Beschussamt" with enhanced blast and floor protection and enhanced roof protection.
- The blast frame and cabin floor act as a blast attenuating double skin, energy absorbing mechanism and provides exceptional safety characteristics for the occupants of the vehicle.

	Armouring Level	Round/Treat
Ballistic Resistance:	VR-9 as per BRV Edition 3	7.62x51 NATO AP / 5,56x45 SS109
Blast Protection:	Tested/Certified to:	12.5kg PETN Plastic Explosive
Floor Protection:	AP Mine Protection	3x1 DM31 AP Mine
	Tested/Certified to:	2x2 HG85 Hand Granades under Vehicle
Roof Protection:	Tested/Certified to:	2x2 DM51 Hand Granades
		3x1 HG85 Hand Granades on the Roof

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TECHNICAL SPECIFICATIONS

Parameter	GT-CAV300 Specification
Engines:	
Diesel	3.3 Liter, V6 Twin Turbo Diesel
Patrol	3.5 Liter, V6 Biturbo Patrol
Max. Power (Diesel)	304HP/227kw@4000
Max. Power (Patrol)	415HP/305kw@650
Max. torque (Diesel)	700@1600-2600
Max. torque (Patrol)	650@2000-3600
Transmission	10-speed Automatic
Tank	80l+30l
GVW/ Payload:	6,100 kg/ 800 kg (VR-7)
Curb weight	5.300 kg (VR-7)

Parameter	GT-CAV300 Specification
Dimensions:	4.980 x 1.980 x 1.955 mm
Track Width/ Axle	1.908 mm/ 4x4 independet front/ rear
Wheel Base:	2.850 mm
Ground Clearance	230 mm
Angle of approach/ departure	32 degrees
Crew Capacity:	4-5
Protection Level	VR-7 or VR-9

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GT-CAV300 TRANSPORTATION

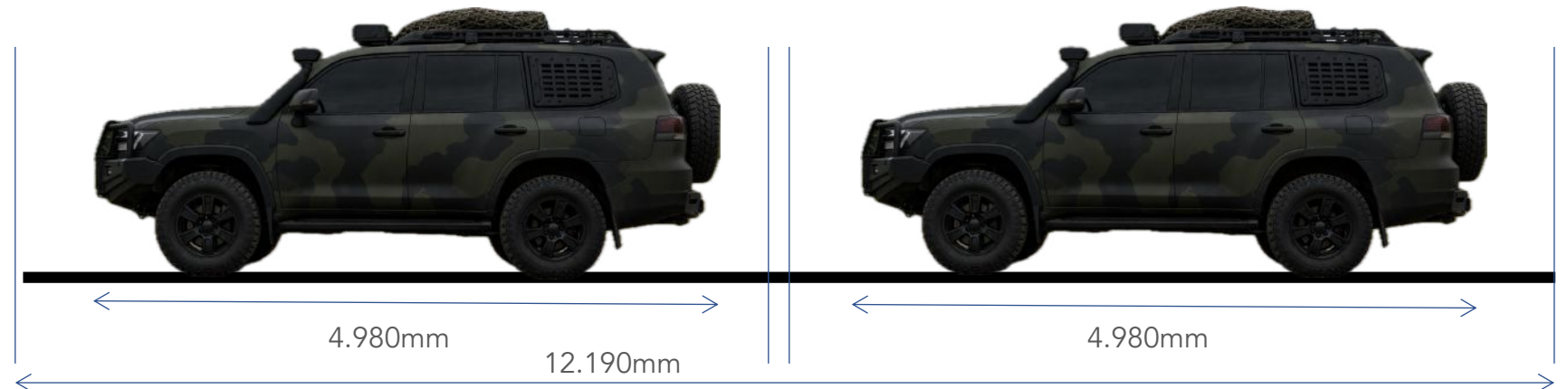
The vehicles can be transported by:



Two units can be shipped in a 40ft flat bed container.

40 FT FLAT BED CONTAINER

Length 12,190mm



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STANDARD AND OPTIONAL EQUIPMENT

Standard Equipment	Optional Equipment	
<ul style="list-style-type: none">▪ Heavy Duty Suspension▪ Heavy Duty Brake System▪ Run-flat inserts in all tires▪ Air Conditioning Unit, tropical or extreme desert options▪ Anti-Locking Brake System (ABS)▪ Central Main Switch▪ Battery protection system▪ Multipoint seat belts▪ Towing Eyes▪ Black out lighting▪ Engine fire suppression system	<ul style="list-style-type: none">▪ Customer equipment integration▪ Anti-Drone Defense System▪ Self Recovery Winch▪ Fire suppression system underbody▪ Weapon mount▪ Turret options▪ Strobe lights▪ IED Jamming systems▪ Night Vision System▪ Fit for radio and navigation system	<ul style="list-style-type: none">▪ PA /Intercom system▪ Converter 24V to 220-230V▪ Window wire mesh protection▪ Antenna mounts▪ Rifle holders▪ Camera recording system with DVR

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Capability Overview

The GT-CAV300 is the new light-duty all-terrain utility vehicle for Armed Forces (designed as a modernized, highly mobile, and digitalized vehicle based on the Toyota Landcruiser 300). The vehicle is designed specifically for military use with a focus on ruggedness, high payload, and integration into modern networked operations.



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CAPABILITY DESCRIPTION

Mission Role

GT-CAV300 supports the following operational roles:

- **Infantry Transport & Support:** Safely moving troops and equipment across varied, often challenging, terrains while offering protection from small arms fire, explosions, and ballistic threats.
- **Reconnaissance & Surveillance:** Acting as scouts for mechanized units to monitor enemy locations, strength, and movements.
- **Rapid Deployment & Air Transport:** Designed for quick deployment by air, making them ideal for rapid reaction forces.
- **Internal Security & Peacekeeping:** Providing a visible, protected presence in urban or volatile environments, often used in patrol and convoy escort roles.
- **Special Forces – Command & ISR – Vehicle:** Designed for covered reconnaissance, leading small teams in rug terrain, drone operations and communication.
- **Specialized Variants:** Modifying the base platform for roles such as command and control (C2) or COMMS platforms.



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CAPABILITY DESCRIPTION

Key Capabilities and Features:

- **Performance & Mobility:** The vehicle features a 3.3 Liter, V6 Twin Turbo Diesel engine (304HP/227kw@4000) or 3.5 Liter, V6 Biturbo Patrol engine (415HP/305kw@650). It is equipped with a 10-speed automatic transmission, allowing for a top speed of over 210 km/h.
- **Payload & Capacity:** With a gross vehicle weight of 6,1 tons, the GTA-CAV300 provides 800kg payload capacity. It is designed to carry four soldiers with full equipment.
- **Digitalization:** A key differentiator is the standard, factory-prepared integration of digital communication and command systems. A standard rear rack (WCK) facilitates the rapid installation of digital radio and command equipment.
- **Variants:** The vehicle is deployed in various configurations, such as Command Vehicle for general troop transport, liaison and reconnaissance, Electronic War Fare Vehicle (EWS) or Military Police Vehicle equipped with special signaling systems.



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CAPABILITY DESCRIPTION

Platforms and Integration

The GT-CAV300 is platform-agnostic and is based on:

- Toyota Land Cruiser 300
- Modelling and furnishing are carried out using a modular system tailored to the needs of the customer/client.

The system is designed for rapid integration into NATO-standard vehicle architectures and battle management systems.



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CAPABILITY DESCRIPTION

Interoperability and Networking

- Compatible with NATO C2 and ISR networks
- Supports joint and combined operations
- Enables sensor-to-shooter connectivity across domains

GT-CAV300 aligns with NATO concepts such as Multi-Domain Operations (MDO) and Joint Fires.



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CAPABILITY DESCRIPTION

Operational Advantages

- Rapid Deployment.
- High Speed and Maneuverability.
- Enhanced Urban Operations.
- Lower Weight.
- Operational Flexibility.
- Improved Logistical Support.
- Serviceability through Toyota Dealership Network



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Summary Statement

The GT-CAV300 is the all-round vehicle in every armed forces. Its range of applications is very versatile, as it has a high degree of mobility and modularity. Its high off-road capability is unique and clearly sets it apart from all comparable vehicle types. The GT-CAV300 is the absolute test winner in terms of quality, performance and price.



PARTNERSHIP & CONTACT

SECTOR FOCUSED SOLUTIONS



Ministries

Our platforms support European defense autonomy and NATO interoperability, contributing directly to national security and industrial strength. Designed for seamless integration with allied forces, GermanTec vehicles align with EU strategic goals and compliance requirements.

 [Request a strategic briefing](#)



Military

GermanTec Automotive vehicles deliver modular, mission-flexible mobility and certified crew protection for peacekeeping, tactical, and border security operations. Our designs prioritize survivability and adaptability in demanding operational environments.

 [Schedule a demo ride](#)



Industry

Open system architecture and standardized interfaces enable collaboration on next-generation vehicle systems. GermanTec Automotive is committed to co-development with European suppliers and supports local production networks.

 [Explore partnership opportunities](#)

EMPOWERING MISSION SUCCESS THROUGH CERTIFIED GERMAN ENGINEERING



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ISO 14001:2015
ISO 45001:2018
ISO 3834-2:2005

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