EXCALIBUR ARMY

member of CSG CZECHOSLOVAK GROUP

TECHNICAL SPECIFICATION

TATRA 815-7 4x4 PATRIOT II
Medium-Class armored wheeled combat vehicle

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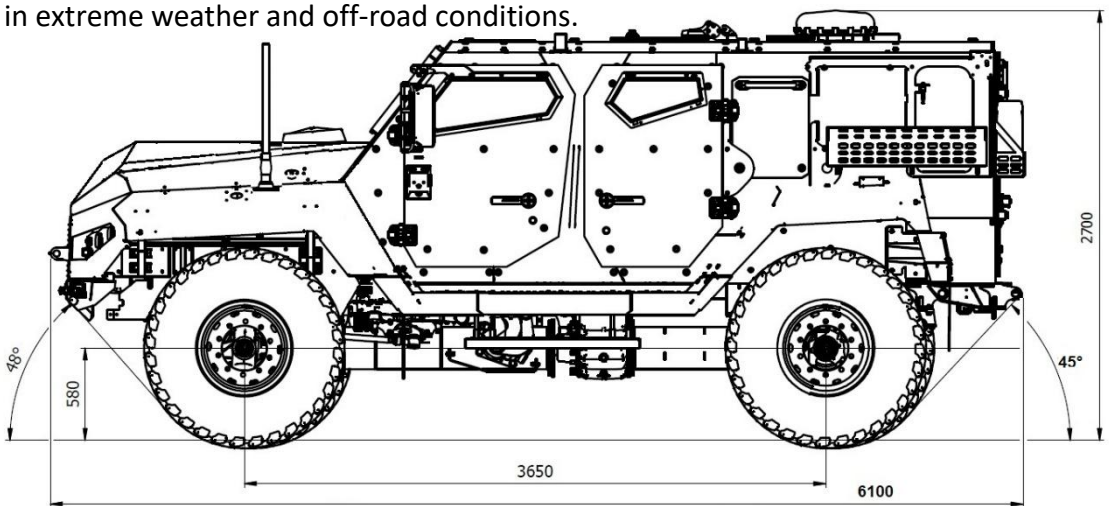
Datová schránka 5kh5d53
Zapsána v OR u Městského soudu v Praze, sp. zn. C41695.

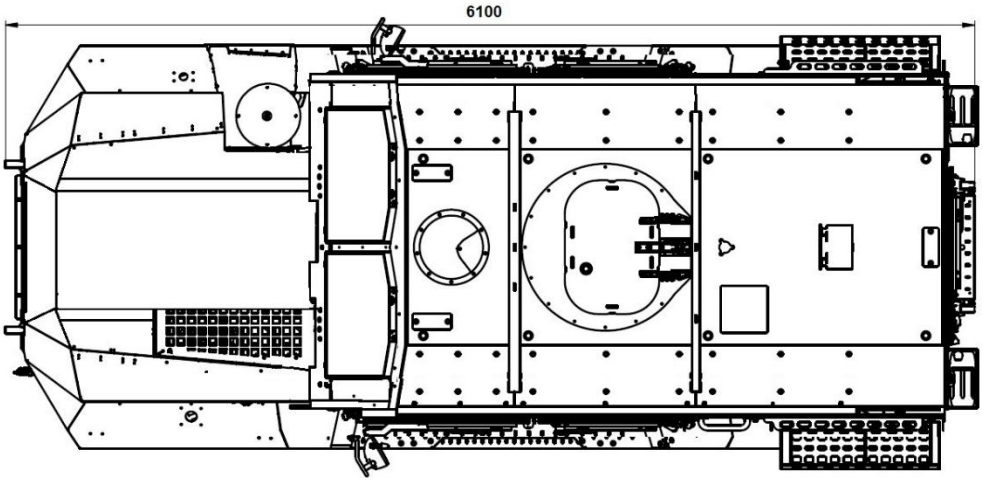
GENERAL

TATRA 815-7 4x4 PATRIOT II has been designed as a medium-class armored wheeled combat vehicle with remote controlled weapon station equipped with gun mounts, carrying potentially up to 20 mm RCWS, 7.62, 12.7 or 14.5 mm calibre machine guns, automatic grenade launchers, and anti-tank weapon systems. TATRA 815-7 4x4 PATRIOT II can be produced as a multi-purpose tactical vehicle in configurations suitable for artillery support, general military reconnaissance, command and control posts, electronic warfare or RCIED jammer carriers, CIMIC/PSYOPS vehicles, bridge layer, medevac, EOD vehicle etc. The PATRIOT II is a development of the PATRIOT vehicle, incorporating several new features, especially a prolonged cabin with more space for troops and equipment.

The design and technical parameters of the TATRA 815-7 4x4 PATRIOT II meet the requirements of all STANAG standards applicable to this type of equipment. At the same time, the vehicle complies with valid road traffic regulations, therefore it can be operated on public roads for emergency management or training purposes.

The vehicle is also designated for transporting special superstructures and support elements, without affecting its functional and driving capabilities or maximum passenger carrying capacity. Mobility and driving capacities of the vehicle provide full military capability in extreme weather and off-road conditions.





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TECHNICAL AND TACTICAL DATA OF THE VEHICLE

Chassis	TATRA 815-7 4x4, swing half axles without hub reductions, with differential locks
Height (without RCWS):	2,700mm (adjustable with air bellows)
Width:	2,550mm
Lenght:	6,300mm
Curb weight:	13 t, technical capacity up to 19 t
Engine:	TATRA T3C-928-90 (optionally Cummins ISL 270 kW)
Performance:	300 kW
Transmission:	6-speed, automatic, Alison 4500SP (optionally manual Tatra)
Suspension:	Front and rear suspension air springs, swing bars and shock absorbers
Brakes:	Disc brakes, Dual-circuit braking system with ABS
Tires:	14.00 R20, RUNFLAT optionable, Central tyre inflation system CTIS
Top speed:	120 km/h (limited to 100 km/h)
Ground clearance:	260 mm – 430 mm variable per inflation of air bellows 360 mm constant
Cruising range:	min. 600 km
Front/Rear approach angle:	45°/45°
Vertical step:	0.5 m
Trench width:	0.9 m
Max. gradient:	45°
Side slope:	32°
Fording capability (instant):	1.2 m
Electric equipment:	24 V
Batteries:	2x180 A
Crew:	2+6 / up to 2+7
Protection:	Armored hull, no-frame, patented bolt-together design
Balistic protection:	Level 2-4 (optional) in accordance with STANAG 4569
Mine protection:	Level 2a/2b-3a/b (optional) in accordance with STANAG 4569
Operating temperatures:	-32°C to +49°C

- Technical specifications might be changed based on development of the vehicle and customer requirements

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ARMAMENT

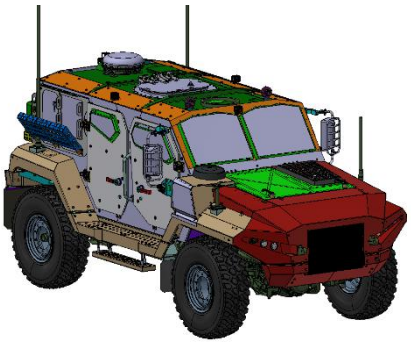
The weapon and tactical platforms of the vehicle are dedicated to carry troops or squads, which can hold military operations from remote controlled weapons placed on gun mounts, with the crew on board. Basic ballistic and mine protection features together with installed weapons enable non-stop full-range combat operations during less intense military conflicts. Integrated but detachable weapon systems, which can be used outside of the vehicle, provide high firing power and increase the defense capacities of the crew.

Optional armament:

- Up to 20 mm RCWS
- 7.62 / 12.7 / 14.5 mm manned turrets
- Mortar
- ATGM
- Grenade effectors

DESIGN AND PROTECTION

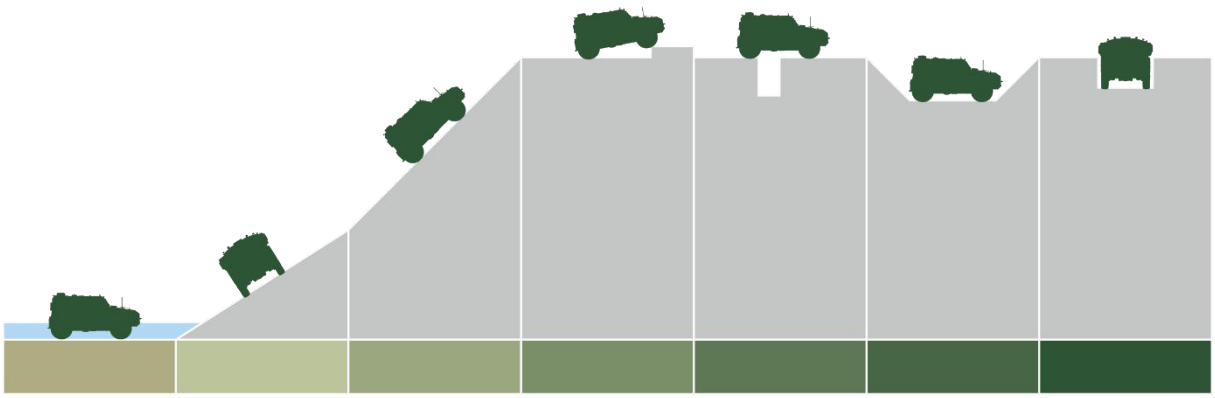
Armored hull for the crew is based on a proven solution called „Kitted Hull Concept“and has been designed and tested to withstand ballistic threat equivalent to Level 2, 3 or 4 (kinetic; optional level) and mine threat at Level 2a/2b or 3a/3b (optional level) according to STANAG 4569.



Optional: ballistic protection Level 4
Mine threat protection Level 3a/3b
Anti-mine seats,
Shock absorbing suspended floor
A/C + NBC filtro-ventillation system
Automatic fire-extinguishing system for cabin and engine compartments

DRIVE-LINE

The vehicle employs a 4x4 chassis using the unique TATRA Concept – a central backbone tube and swinging half-axles, which features outstanding driving capabilities, primarily off-road mobility, and constant payload capacity independent on the character of operating conditions (paved roads – off road conditions). The air suspension system makes it possible for the driver to increase the clearance by 70 mm or lower the max height by 100 mm on the go.



Fordability	Side slope	Gradient	Step	Trench	Approach	Defiles
1.2 m	32°	45°	0.5 m	0.9 m	45° / 45°	2.65 m
					frontal / rear	

Note:

Final vehicle combination and arrangement will be agreed in the contract.