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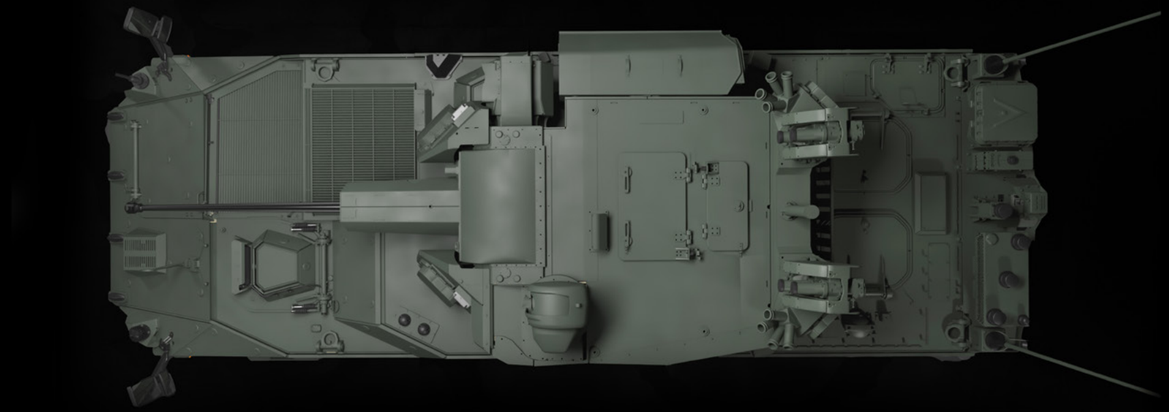
POWER MOBILITY SAFETY

PANDUR EVO 8×8

TATRA DEFENCE VEHICLE

MODERN WHEELED INFANTRY
FIGHTING VEHICLE



PANDUR EVO 8x8

MODERN WHEELED INFANTRY FIGHTING VEHICLE

The Pandur 8×8 EVO is a modern wheeled armored vehicle developed by TATRA DEFENCE VEHICLE (TDV) in cooperation with GDELS-Steyr, designed as a universal wheeled platform based on the NGVA architecture, offering high innovation and modernization potential. It is intended for deployment in current and future military operations characterized by high dynamics and a wide range of threats. The vehicle meets demanding requirements for advanced active and passive protection, powerful firepower, maneuverability, mobility, and integration into multi-domain operations.

The modular concept of the Pandur 8×8 EVO allows for configuration in multiple variants, including infantry fighting vehicle, company command vehicle, medical vehicle, engineer vehicle, self-propelled mortar, recovery vehicle, air defense vehicle, command and staff vehicle, and communications vehicle. All variants are equipped with a modern communication and information system enabling integration into C4 ISTAR networks.

The platform can be fitted with both manned and unmanned weapon systems, and is capable of deploying loitering munitions and cooperating with UGV and UAV systems, including the ability to control them directly from within the vehicle.

MAXIMUM CREW PROTECTION

The Pandur 8×8 EVO is designed with maximum emphasis on the protection and survivability of the crew and transported squad. Its foundation is a robust armored hull made from modern materials, providing ballistic protection at Level 4 according to STANAG 4569 and mine resistance at Level M3a/M3b. The hull features an entirely new underbody structure, specifically engineered to withstand the effects of mines and improvised explosive devices (IEDs).

The vehicle is equipped with the Iron Fist active protection system, capable of detecting and effectively neutralizing threats such as anti-tank guided missiles, loitering munitions, and other types of projectiles. A laser warning system further enhances survivability by alerting the crew to the presence of highly accurate weapon systems utilizing laser guidance.

The equipment includes active protection systems as well as sensor and electronic systems that provide the crew with a comprehensive overview of the vehicle's surroundings and enhanced situational awareness on the battlefield. This significantly increases the vehicle's survivability in combat conditions.

ARMAMENT AND FIREPOWER

The Pandur 8×8 EVO platform, in the infantry fighting vehicle configuration, is equipped with the unmanned UT30MK2 weapon turret. This modern weapon station features a 30mm Mk44 Bushmaster II automatic cannon with an elevation range of -15° to +60°, a coaxial 7.62mm machine gun, and two powerful Spike LR/LR2 anti-tank guided missiles, which can be launched from either the turret or a dismounted launcher. It also includes a launcher for loitering munitions. The main weapon is fully stabilized, enabling accurate fire while on the move. The turret is designed to accommodate an upgrade from the 30mm cannon to a larger caliber weapon if required. A key advantage of the UT30MK2 turret is that its mechanisms do not intrude into the internal space of the vehicle's hull.

MODERN ELECTRONICS AND SITUATIONAL AWARENESS

The Pandur 8×8 EVO platform is equipped with an advanced electro-optical system that enables effective reconnaissance and combat operations in complex environments. The EdgeSA system, developed in cooperation with Retia and Axon Vision, provides the crew with 360-degree situational awareness, allowing them to observe the vehicle's surroundings, quickly and easily identify potential threats, and significantly enhance overall situational awareness. An advanced information system supports data sharing with other vehicles, transfers information to higher-level command systems, and enables integration into multi-domain operations.

MOBILITY AND PERFOR– MANCE

The Pandur 8×8 EVO platform is powered by a high-performance Cummins ISL 540 six-cylinder turbo-diesel engine delivering 405 kW, paired with a ZF Ecomat automatic transmission. The vehicle reaches a maximum speed of 105 km/h and has an operational range of over 600 km. Thanks to its independent suspension system and central tire inflation system, the vehicle is capable of handling demanding terrain and is transportable by A400M or C-17 aircraft.

PLATFORM VARIABILITY AND MODULARITY

The design of the Pandur 8×8 EVO is fully modular, allowing for the integration of various weapon, sensor, and information systems. This flexibility enables the creation of multiple variants on the base chassis, including those intended for direct combat, command and control, reconnaissance, artillery support (e.g., the Crossbow turret with a 120mm mortar), or air defense (e.g., the UT-30MK3 turret). The platform is engineered for easy maintenance and future upgrades.

CONTRIBUTION TO THE CZECH DEFENSE INDUSTRY

The Pandur 8×8 EVO platform is fully developed and manufactured in the Czech Republic. TATRA DEFENCE VEHICLE (TDV) collaborates with leading domestic and international partners, including the transfer of key technologies. The production of UT30MK2 turrets and the integration of communication and information systems are carried out directly at TDV. The Pandur 8×8 EVO project brings significant economic benefits to the Czech Republic, ensures secure supply for the Czech Armed Forces, and strengthens the importance of the Czech defense industry.

EXPORT POTENTIAL

The Pandur 8×8 EVO platform is fully interoperable with NATO systems and builds upon the export successes of previous versions of the Pandur 8×8 vehicle. TDV offers the option to customize the vehicles according to the requirements of international customers, including the transfer of production and technologies.

TECHNOLOGICAL DATALINK

1. CANON 30 MM
2. APS
3. SDIO
4. SENZORIC SYSTEM
5. RCWS
6. GSD
7. JAMMER RCIED8
8. DRIVER TERMINAL
9. MOTOR
10. CAMERA SYSTEM
11. ONBOARD INFORMATION SYSTEM
12. COMANDER TERMINAL
13. TERMINÁL BMS
14. POWERTRAIN
15. NAVIGATION SYSTEM
16. CREW TERMINAL

TACTICAL DATALINK

2.1. COMMUNICATION AND INFORMATION SYSTEM
2.2. UAV AND UGV READY
2.3. DSS

SENSOR DATA LINK

3.1. SENZORIC DATA READY

BASIC TECHNICAL SPECIFICATIONS:

Weight:
up to 25 t

Operational Range:
up to 600 km

Primary weapon:
30 mm MK44S

Protection Systems:
APS – Active Protection System
LWS – Laser Warning System
SGL – Smoke Grenade Launcher
SD – Shot Detections
C-UAS – Counter Unmanned Aerial System

Crew:
3+7

Motor:
Cummins / 405 kW

Secondary weapon:
7,62 mm FN MAG

And many more.

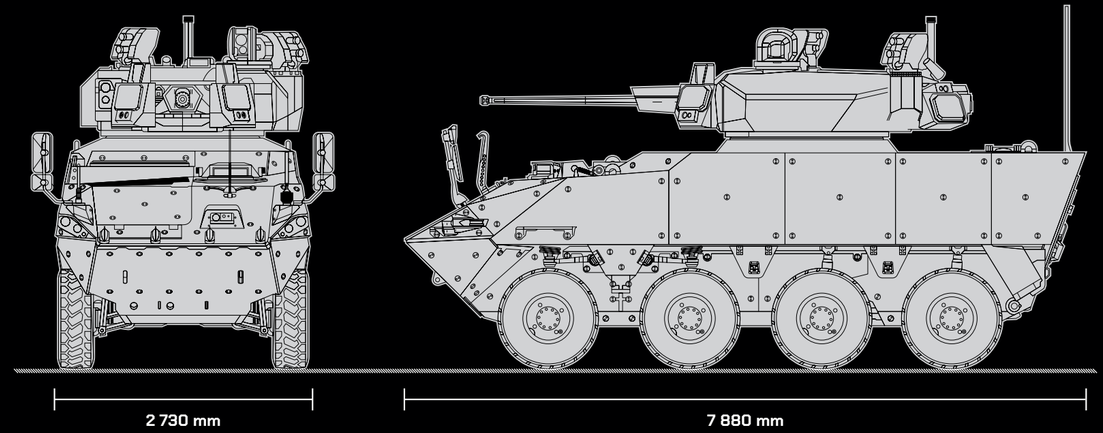
Climbing Ability:
up to 60%

Top speed:
105 km/h (on-road)

ATGM:
SPIKE 2 LR (3,5 gen.)

IED protection:
50 kg / HE 155 mm
@ 5 m

Turret type:
UT30 MK2



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