



UAT.GYURZA-02

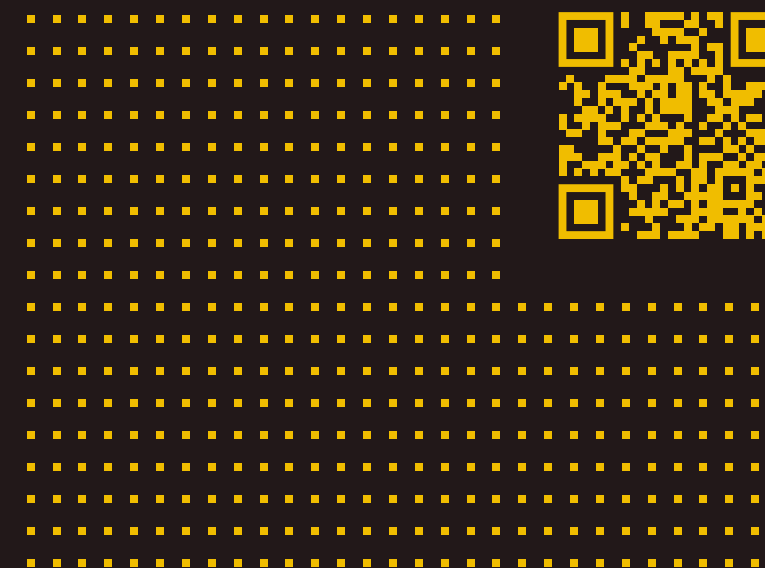
**OPTIMAL
FOR TOUGH TASKS**



The **UAT.GYURZA-02** was developed by the design and engineering division of UKR ARMO TECH and represents a family of new wheeled armoured fighting vehicles.

The vehicle is intended to be used in providing transport service to military personnel of the Armed Forces of Ukraine and other military formations of the state defence and security sector and their fire support, reconnaissance and patrolling tasks.

The vehicle has high dynamic qualities, improved cross-country performance and ride smoothness, and the ability to cover long distances at a high average speed.





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DESIGN SOLUTIONS

One of the main advantages of the vehicle is its specialized chassis, which is manufactured to order by UKR ARMO TECH.

The GYURZA-02 received a chassis designed specifically for an armored fighting vehicle.

To improve the vehicle's cross-country ability and maneuverability in difficult conditions, taking into account the weight of the armored capsule, an independent double wishbone suspension, a drive, a central tire inflation system and other elements of the chassis system were designed.

The GYURZA-02 is equipped with an electronically controlled diesel engine, automatic transmission, pneumatic control of high- and low-speed transfer units, and a twin-pipe pneumatic brake system.





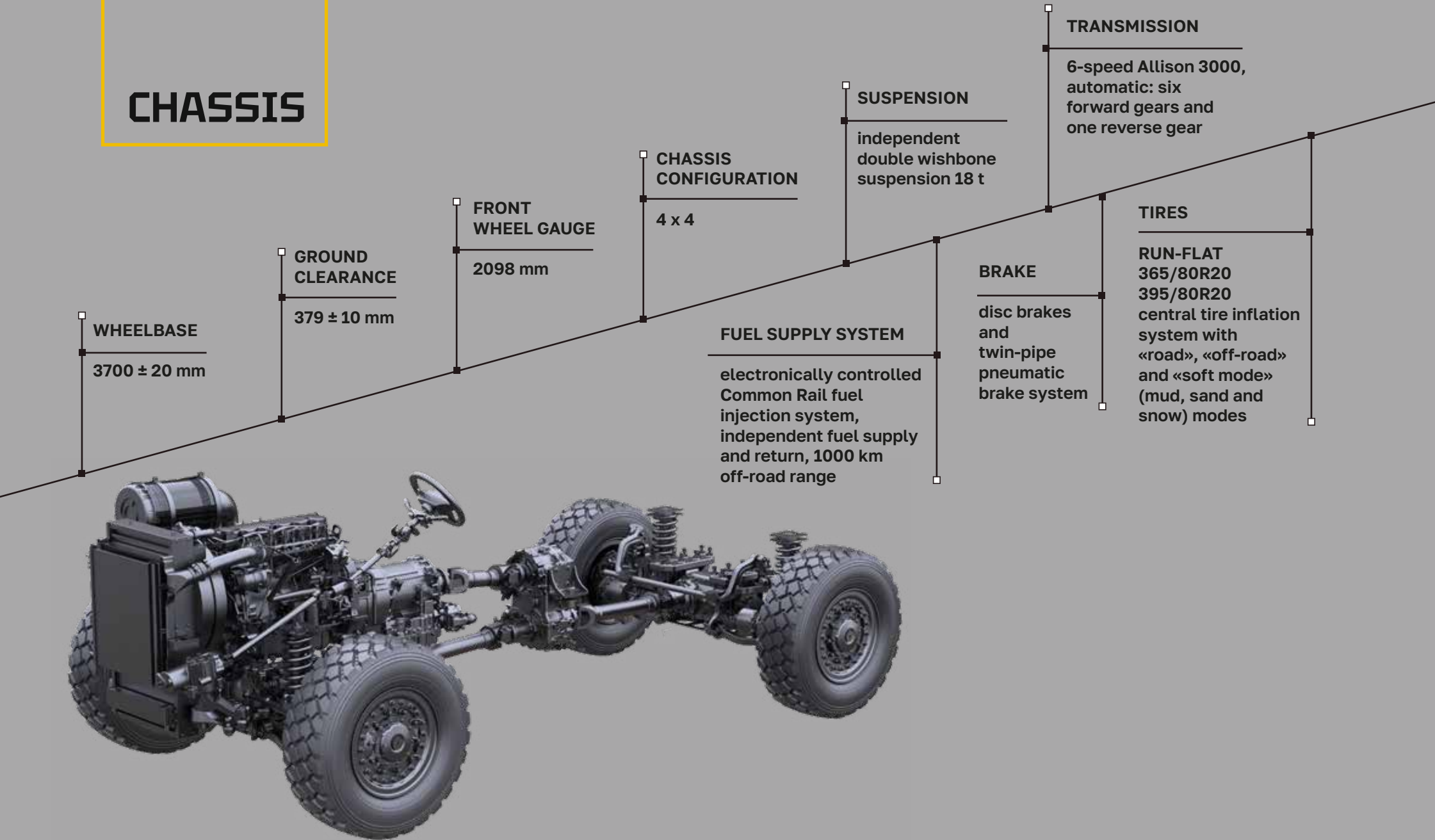
Movement in difficult conditions is provided by a 6-cylinder Cummins high-performance diesel engine with an extremely quiet sound and a long service life (more than 350,000 miles).

The reinforced chassis ensures reliable operation of the 16-ton armored vehicle in various landscape conditions. It gives the vehicle the ability to overcome steep climbs and eliminates rollover. Control during sharp maneuvers is smooth and convenient.

The GYURZA-02 can move without restrictions in dense urban traffic and is suitable for use on all types of roads and off-road in temperate areas. The operating temperature range is from -40°C to +50°C.



CHASSIS



ENGINE

TYPE	Cummins ISDe6.7-330
VOLUME	6.7 l
POWER	385 hp
MAXIMUM TORQUE	1200 N*m 1400-1700 rpm

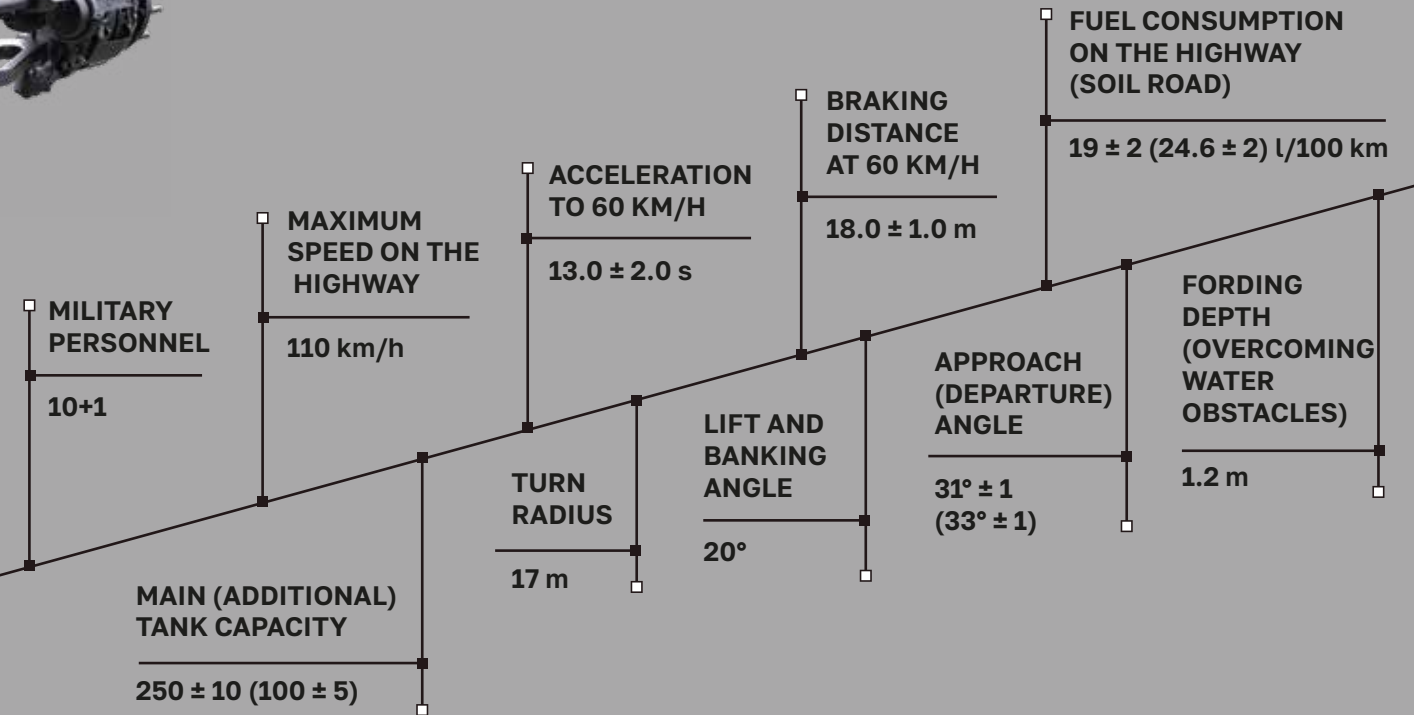
DIMENSIONS

LENGTH	7140 mm
WIDTH	2600 mm
HEIGHT WITH WEAPON STATION	3500 mm

WEIGHT

CURB WEIGHT	14000 ± 200 kg
GROSS WEIGHT	16000 ± 200 kg

MAIN PARAMETERS



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SAFETY AND SECURITY

MRAP (Mine Resistant Ambush Protected) are armored vehicles that have become indispensable for the movement of personnel on the front line. The bodies of such vehicles are made of special steel, which provides increased ballistic protection according to STANAG 4569 Level 2. Although MRAP is one of the best modern solutions, UKR ARMO TECH is constantly improving the protection of its armored vehicles. The development of destruction means requires maximum reliability of armored vehicles, including through enhanced anti-drone and mine protection.

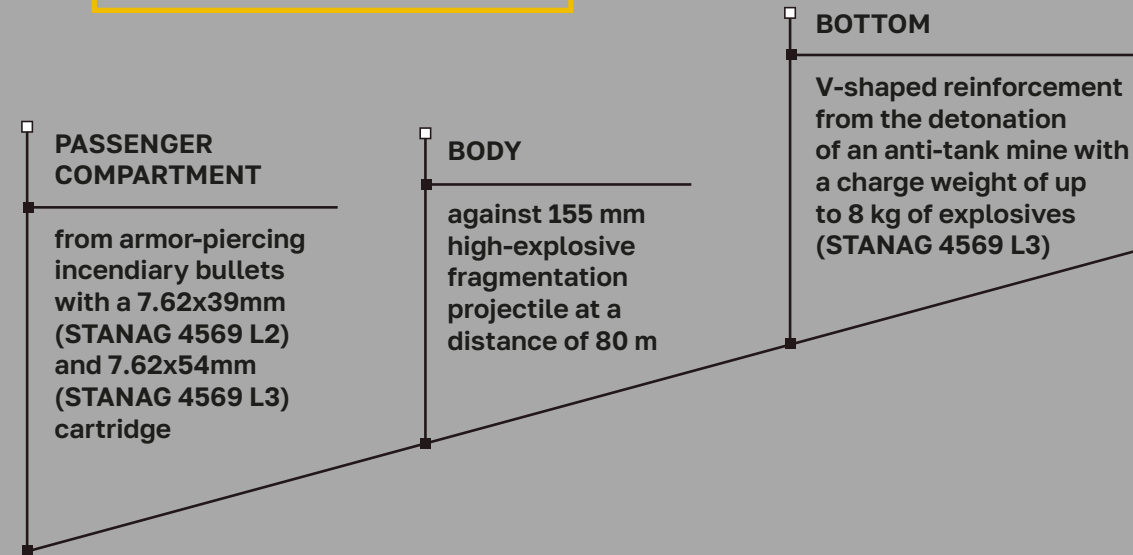




PROTECTION

The armored vehicles of UKR ARMO TECH, and GYURZA-02 in particular, have a V-shaped lower body to dissipate explosion energy and special seats with shock absorption from explosive loads. Mine blast resistant seats have 5-point seat belts and have been tested in accordance with NATO AEP STANAG 4569.

Additionally, the inside of the armored capsules of the vehicles is covered with anti-shrapnel lining, which protects the crew and internal equipment from free-form fragments weighing 1.1 g at a speed of 500 m/s.



The global use of FPV drones and the constant expansion of their destruction capabilities require certain process and design solutions to ensure that armored vehicles are minimally vulnerable.

To counter enemy FPV drones, UKR ARMO TECH vehicles are equipped with modern onboard electronic warfare systems as standard equipment with operating frequency 150-1030 MHz.

Additional steel screens – anti-cumulative protective grilles – are placed at a distance from the main armor, without limiting the functionality of the equipment and without complicating its operation.

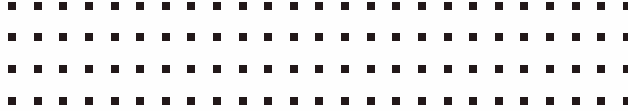
UKR ARMO TECH successfully cooperates with Ukrainian technology companies and offers customers a number of options for equipping the vehicle with additional advanced systems.

For example, the GYURZA-02 can be equipped with a hardware and software system for detecting FPV-type threats «FlyOff», designed for radio monitoring, determining the direction of radio sources, processing and recording direction finding data in real time, displaying detected threats on the map and issuing commands to various types of electronic warfare (EW).

Technical specifications of the complex:

- scanning frequency range: 1000-6000 MHz
- detection range: at least 1.5 km
- temperature limit for the antenna feeder system and data processing and transmission unit: from -30°C to +55°C





The basic equipment of the vehicle includes systems for general communication, navigation and driver assistance in night conditions (infrared detectors and a camera). A high-quality 360° terrain scanning is provided by 4 cameras: daytime surveillance information is displayed on the screen between the commander and the driver, and nighttime surveillance information is displayed in front of the driver.

Blackout is provided by special headlights. When the blackout mode is activated (with a single button), all interior and exterior lighting is turned off. In this mode, only the monitor of the night vision device operates.

In the manufacture of armored vehicles, foreign-made alloy ballistic steel is used, which integrates an ultra-high level of hardness with excellent strength and high ductility. It provides all-round armor protection for the crew, troops and internal equipment under fire not lower than Level 2 and Level 3 NATO AEP-55 STANAG 4569.

Armor steel is tested in accordance with the requirements of the state standard «Protection of armor of specialized vehicles. General Technical Requirements» by certified laboratory of Ministry of Defense of Ukraine.

The compliance of UKR ARMO TECH armored vehicles with the requirements of special-purpose products is confirmed by NATO nomenclatural numbers (NSN): The classification includes products manufactured for the needs of the Armed Forces of Ukraine and other military formations and can be exported by Ukraine.

Ballistic glass, an important safety element, provides a level of protection not lower than that of the corresponding armored vehicle hull projections. At the same time, it does not reduce visibility, which is very important in ambush or patrol modes. We use certified bulletproof glass (STANAG 4569 L2/L3), multilayer, made of pressed plates of shatterproof glass and a transparent polymer adhesive film, which are integrated into a monolith. On the inside, the glass is additionally covered with a special film to prevent fragments from getting inside. The car is also equipped with anti-shatter, protected rear view mirrors.

The GYURZA-02 has received an upgraded fire extinguishing system with autonomous functionality for individual units. The automatic system is equipped with the relevant detectors. Typically, tactical vehicle manufacturers install fire extinguishing systems only in the landing and engine compartments. UKR ARMO TECH defines fire protection of wheel arches as an additional factor in the stability of its armored vehicles.

In order to prevent the armored vehicle from losing its ability to move in combat and turning into a static target, the GYURZA-02 armored vehicles have been tested with in-house developed fire protection systems that are triggered separately for each wheel in case of fire. The multi-zone external protection system limits the impact of explosives and incendiary ammunition on the tires, which significantly increases the crew survival in conditions of comprehensive fire damage.



A modern filter-ventilation system protects personnel from the negative effects of chemicals often used by the enemy. The system operates in extreme conditions when the environment is unfit or unbreathable.

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ERGONOMICS

The GYURZA-02 design provides for the separation of the crew and troops from the engine and transmission compartment and fuel tanks. The arrangement of the armored vehicle is optimal and proven: engine in the front, crew compartment in the middle, and the landing compartment in the rear.

The crew compartment is designed to accommodate long periods spent in the vehicle: the personnel compartment is spacious, with a comfortable internal height, noise and thermal insulation, air ventilation, heating and air conditioning systems. The control compartment includes the driver's and commander's seats.

Each seat has individual holders for personal weapons and ammunition, and the seats are designed to save lives during mine detonation.

Loading and unloading of personnel is carried out through 5 doors. All doors are equipped with bulletproof windows, and the landing doors are additionally equipped with embrasures with flaps for firing.

Special door mechanisms are easy to operate and ensure reliable operation of armored doors weighing more than 300 kg.

Two emergency hatches are provided on the roof for emergency evacuation of the crew in case of damage to the vehicle.







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PRODUCTION ADVANTAGES

UKR ARMO TECH provides a full cycle of production and testing of the GYURZA-02 armored vehicle.

All components, assemblies and units are manufactured or modernized at more than 10 production sites equipped with high-tech modern equipment. We ensure quality control at every stage – from laser cutting of metal to final assembly and testing.

The main components of the GYURZA-02 vehicle are removable, which facilitates and speeds up maintenance and repair.

We are increasing our production capacity, improving welding technologies and other production operations and processes, expanding the range of components of our own production, etc. to best meet customer needs.

Our own powerful design base allows us to modify and improve serial products, develop new models and components with an increased level of protection.





All our materials are tested at our own testing ground, which ensures their 100% compliance with the armor plating requirements.

To ensure quality service and repair, we are developing our own service station and increasing the number of mobile teams to provide prompt maintenance of equipment directly at the place of operation.

The advantage of UKR ARMO TECH is the constant monitoring of the use of vehicles in real combat conditions and the improvement of protection, functionality, ergonomics and design of armored vehicles. The result of such monitoring and careful analysis of feedback from the military was the emergence of the new UAT.GYURZA-02 model.



UAT.GYURZA-02

ARMAMENT: AUTOMATIC TURRET

The GYURZA-02 is equipped with the weapon station (automatic unmanned combat turret) manufactured by UKR ARMO TECH with partner company SCIENTIFIC PRODUCTION ASSOCIATION UKRAINIAN DEFENSE TECHNOLOGIES. The main weapon is the M2 Browning 12.7 machine gun with a 300-round ammunition.

Tactical and technical characteristics of the module:

- Height: 850 mm
- Length: 1700 mm
- Width: 1225 mm
- Weight of the weapon station (with weapons and fire control system) 370 kg (450 kg)
- Azimuthal range: $n \times 360^\circ$
- Weapon elevation/lowering range: $+55^\circ / -15^\circ$
- Angular velocity: $70^\circ/\text{s}$
- Aiming accuracy: $<0.5 \text{ mrad}$
- Operating temperature: $-32^\circ\text{C} / +55^\circ\text{C}$
- Armor protection: STANAG 4569 Level 1



Weapon control system capabilities:

- Autoacquisition
- Gyroscopic stabilization in the horizontal and vertical planes
- Optoelectronic module: day and night imaging, laser rangefinder
- Fire control computer with advanced functions
- Fired cartridge counter and warning about the remaining ammunition
- Ability to fire on the move (stationary or moving targets, ground and air)
- Remote reloading of the machine gun
- Remote opening of the optoelectronic module housing cover
- Armored protection of the OEM housing and weapons control system units

The vehicle can also be equipped with a 12.7 machine gun turret or other weapon station.



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EQUIPMENT AND TECHNOLOGY

Advantages in modern warfare are largely determined by technology. That's why we pay special attention to the ability to equip our vehicles with the latest systems, including artificial intelligence, to help military units perform their work effectively.

The GYURZA-02 can be equipped with an interactive vision software and hardware system developed by Ukrainian engineers. The complex operates using augmented reality and artificial intelligence technology, detecting ground threats using 12 day and night vision cameras.



Object detection range:

- person: up to 60 m in the visible spectrum, up to 200 m in the infrared imaging spectrum
- vehicle: up to 100 m in the visible spectrum, up to 400 m in the infrared imaging spectrum
- weapons: up to 30 m
- grenades: up to 3 m
- anti-tank mines: up to 20 m
- anti-personnel mines: up to 5 m

Detection accuracy of vehicles and people is over 80% for visible objects in the Vis-NIR spectrum.

Additional features:

- integration of analysis algorithms for detecting camouflage by combining data from multiple sensors (Sensor Fusion)
- automatic labeling of detected objects indicating the type of threat
- ability to zoom in on the image for detailed analysis.

High integration with modern solutions allows expanding the functionality depending on the user's needs.



A proprietary development of UKR ARMO TECH that can be installed on a fighting vehicle is a smoke screen system. It can operate both separately and, for example, together with a laser radiation detection system (laser sights of various types of weapons).

Technical specifications of the laser radiation detector:

- Wavelength: 800-1600 nm
- Detection range: 2000 m
- Viewing angle: 360°
- Operating temperature range: -30°C to +55°C



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EXPANDING THE FUNCTIONALITY

The design and engineering division of UKR ARMO TECH is developing various modifications of the new serial armored vehicle UAT.GYURZA-02. All vehicles, regardless of their purpose, will have at least Level 2 and Level 3 protection in accordance with NATO AEP STANAG 4569.

Possible modifications:

- Basic tactical vehicle
- Special tactical vehicle – a pickup truck with a platform for placing weapons, cargo, etc.
- Infantry fighting vehicle with enhanced weapons – equipped with a 30 mm turret
- Armored police vehicle
- Medical evacuation vehicle
- Platform for placing weapons
- Tactical cargo vehicle with 6 x 6 wheel configuration
- Carrier of high-precision weapons, artillery systems and multiple launch rocket systems
- Armored repair and evacuation vehicle
- Engineer vehicle
- Command post vehicle

The functionality and equipment of a customized vehicle are determined in accordance with the customer's needs.





Armored combat vehicle with 6 x 6 wheel configuration



Infantry fighting vehicle with enhanced weapons – equipped with a 30 mm turret



Basic tactical vehicle with various types of installed weapons



Armored police vehicle



Medical evacuation vehicle



Tactical vehicle with electronic intelligence system



Command post vehicle



SAVING LIVES



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UKR ARMO TECH is a modern company that produces high-quality armored vehicles for structures and units that protect the national sovereignty and territorial integrity of Ukraine, public order, etc.

Own design solutions, high-quality components and innovative technological processes – it is not the first year that the products of UKR ARMO TECH have been proving their effectiveness in war conditions.

MAIN ACTIVITIES:

- production, maintenance and repair of armored vehicles
- modernization and strengthening of the protection of special vehicles
- design of advanced models
- armoring of civilian vehicles

We see our mission as saving the lives of those who defend their country in extremely difficult conditions. For this very reason, we guarantee the quality and high functionality of armored vehicles for the transportation of defence units and combat missions.

The vehicles are produced both in the basic configuration that fully meets safety and quality standards and with additional equipment that allows to increase the functionality of the vehicles.

The range of applications of UKR ARMO TECH armored vehicles with the possibility of modification for specific tasks is as follows: combat, medical evacuation, command post, cargo, weapons carriers, service vehicles, etc.

