



ARMORED PERSONNEL CARRIER



DESIGN AND
MANUFACTURING COMPANY
UKRAINIAN ARMOR

2019



DESIGN AND MANUFACTURING COMPANY UKRAINIAN ARMOR

Has vast experience in the defence industry, primarily meeting the demands of the Ukrainian Armed Forces along with armies around the world. We manufacture Armoured Personnel Carrier (APC) VARTA for transporting soldiers in combat situations and combine under the same management enterprises on engineering, production, consulting, legal support and sales of defence products both for domestic and foreign markets. We specialize in manufacturing APC, medical ambulances, field kitchens, military units and artillery weapons, as well as modernization and armoring of military vehicles. We offer localization of manufacturing capabilities in your country and help foreign companies and Ukrainian producers in their market expansion.



ARMORED PERSONNEL CARRIER

GENERAL SPECIFICATIONS



VARTA - is an Armored Personnel Carrier (APC). It is ideal for transporting soldiers in combat situations and can also be equipped as a Command-Post Vehicle, or evacuation of troops.

The vehicle compartment is made from specialized 560 steel grade which protects crew from armored piercing incendiary ammo up to 7.62mm.

VARTA uses a V-shape hull structure to accommodate

anti-mine seats, giving crew members protection to withstand detonation of charges up to 6kg of TNT.

VARTA includes a fighting module equipped with either the 7.62 mm or the 12.7 mm machine gun. The vehicle has 10 gun ports around the vehicle with the feasibility of accommodating a UBGL (Under-Barrel Grenade Launcher).

WARTA

ARMORED PERSONNEL
CARRIER

SPECIFICATION

PROTECTION

Protection against firearms 7.62x39mm caliber from a distance of 10 m and mine blast protection under a wheel or bottom up to 6 kg TNT.

WHEEL ARRANGEMENT

4 x 4 (chassis with increased all-terrain travel capability)

OVERALL LENGTH/WIDTH/HEIGHT

7190 / 2250 / 2850mm

ENGINE

6-cylinder in-line turbo diesel, 270 a6o 380 hp. 1128 N*m or 1250 N*m, at 1200-1600 rpm.

MAXIMUM SPEED

100 km/h on road

FUEL TANK CAPACITY

350 l

TIRE SIZE

14,00 R 20 or 16,00 R 20

CREW MEMBERS

2+8

GVW

17 500 kg

WHEEL BASE

3950 mm

GROUND CLEARANCE

320 mm

ELECTRICAL SYSTEM

24V

TRANSMISSION

9 Gear Manual Transmission

MAXIMUM RANGE

1000 km on the high-type road

FORDING

0,75 m

SIDE SLOPE

20°

GRADIENT

25°

GUN PORTS

10

TIRE INFLATION SYSTEM

Automatic Centralized Tire Inflation System.

For different road surface.

Runflat will allow continued operation even after a loss of some or all inflation pressure for up to 50 km at a speed of not more than 30 km/h.

ACCESSORIES

Front and rear cameras, GPS navigation.

FIRE EXTINGUISHING SYSTEM

Automatic systems for crew compartment with Ultraviolet and Infrared detectors.

WEAPON

Gunner station with a gunner protection on the roof that can support machine gun systems including 7.62mm.

LIVING FACILITIES

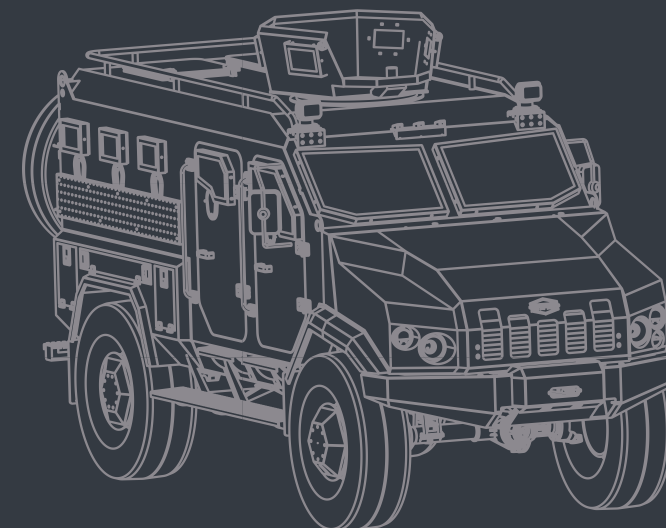
Air conditioning, heater, flow ventilation, first aid kit, powder gases ventilation system.

FILTER VENTILATION SYSTEMS

Provides protection from the effects of natural pollutants from the atmosphere, the use of weapons of mass destruction (WMD)

SEATS

Military blast protection and absorbing seats has five points seat belts.



ARMORED PERSONNEL CARRIER

CHASSIS

The «VARTA» is built on a 4 x 4 two-axle truck base with a specialized chassis with a "high-cross", with central tire inflation system is proven and reliable even in the most challenging and difficult conditions.

ENGINE

The VARTA boasts a 6-cylinder in-line turbo diesel, 270 hp or 380 hp.
The VARTA has a maximum road speed of 100 km/hour and a maximum torque of 1128 N*m or 1250 N*m

TRANSMISSION

The VARTA employs an 9 Gear Manual Transmission FAST GEAR 9JS200TA, to accommodate all terrain situations and to be completely versatile in battle.

SUSPENSION

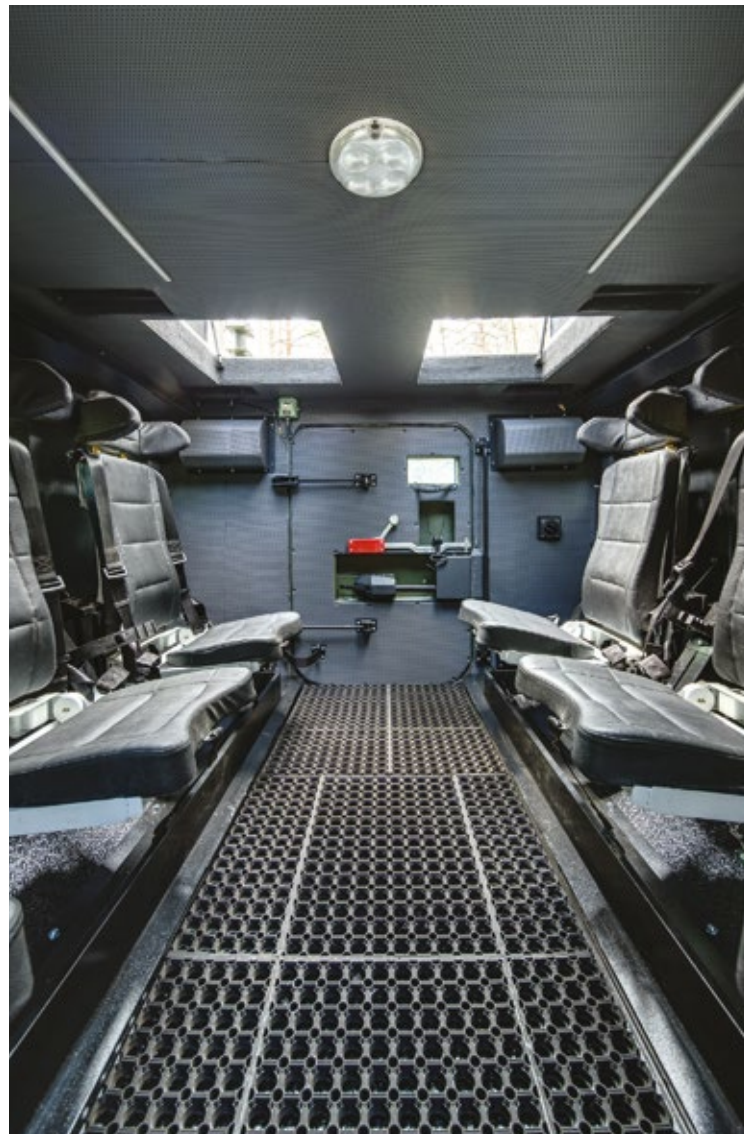
The VARTA utilizes an energy-intensive dual shock absorber system. It has additional leaf springs on the wheels to provide smooth riding conditions even at high speeds on off-road situations. It is built rugged, long-term usage.



ARMoured CAPSULE CARE

Built with armor which can withstand a direct hit from incendiary of 7.62x39mm ammo from a distance of 10 m.

The «VARTA» engages bulletproof glass of the same protection level as the armor and it's external installation method enables quick replacement if damaged. V-shaped hull of the «VARTA» armoured crew compartment gives protection to the passengers able to withstand a detonation charge equivalent to 6kg of TNT.



WEAPON

VARTA comes with gunner station with a gunner protection kit on the roof that can support various machine gun systems including 7.62mm (PK) or 12.7mm (combat module "Sarmat"). The VARTA can also come equipped with an enclosed cupola supporting dual machine gun systems (14.5mm and 7.62 mm).

Turret available in manual and powered variants. 10 gun ports with the possibility of rifle grenade installation. Gun ports equipped with powder gases ventilation system.

The possible installation smoke grenade launching system.



ANTI-MINE SEATS

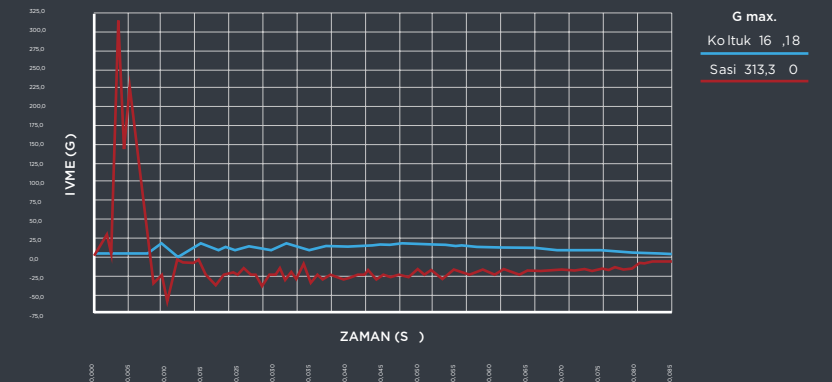
MODERN ANTI-MINE SEATS TESTED AT STANAG 4569 PROTECTION LEVELS BASED AND MEET NATO AEP-55 STANDARD.

EQUIPPED WITH:

- advanced energy damper attenuation system
- wall mounted
- 5 point seatbelt system
- folding seat
- foldable headrest
- waterproof external coating



TEST 6



The diagram shows the acceleration that occurs during the mine explosion. Blue curve with installed Anti-mine seats.

THE VARTA IN EXTREME CONDITIONS

ARMORED
PERSONNEL CARRIER

WHEELS

Special off-road tires 14R20 or 16R20. Tubeless with high floatation and security.



ARMoured RIM PROTECTION

The VARTA is equipped with a central tire inflation system. This system provides:

- required air pressure in the tires of the vehicle depending on road surface;
- automatic maintenance of specified air pressure in the tires in case of damage;
- automatic wheel disconnection from the system in case of significant damage when air leakage exceeds the rated compressor performance.

Rubber Run-flat tire will allow continued operation even after a loss of some or all inflation pressure for up to 50 km on off road. Made of three parts, which allows quick mounting without special equipment.





CLIMATE CONTROL

Independent air conditioning and heating system individually designed to ensure a comfortable climate in the cabin at a -40 to +50 °C. All windows and mirrors are heated. The ergonomic instrument panel has waterproof and anti shock sensors and switches.

WINCH

Moisture-proof in tropical performance, electric, towing capacity not less than 9t, steel or synthetic cable not less 25m. In order to increase traction, a set of pulley blocks can be installed.



FIRE EXTINGUISHING SYSTEM

High speed fire suppression system for:

- crew compartment
- engine compartment

The system protects against “Molotov cocktail” and minimizes risk of RPG attacks.

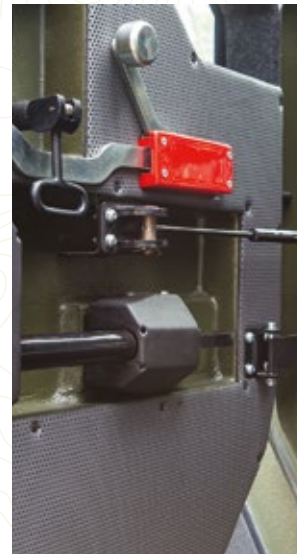
The system with UV IR detectors can indicate combustion in 3 milliseconds and suppress it in 250 milliseconds

FILTERING AND VENTILATION DEVICE

Protection of the usable area of the objects from the effects of natural atmospheric pollution, usage of weapons of mass destruction (WMD) and contaminations by selected toxic industrial substances.

DOORS AND SPECIAL MILITARY HANDLES

The door mechanism from company TriMark is easy to operate and allows power locking of heavy-duty doors up to 300 kg. The doors are compliant to FMVSS 206 strength requirements.



VEHICLE LIGHTINGS

The VARTA includes:

Front headlights, taillights, brake lights, marker lights, direction indicators, fog lights, convoy lights, spotlights and blackout lights.

All lights are made from polycarbonate materials that are 200 times stronger than glass.

All lights are dust, water and chalk-resistant.

Interior lighting with several settings: Full, partial camouflage and specific night lighting.

All military lighting kits meet NATO standards.

Blackout lights are equipped with special lenses that are designed to cast a diffused horizontal beam of light for the driver of the vehicle to navigate and also to be recognizable to other vehicles. Blackout lights are intended for concealed convoy use at night.









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Producer

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