



KAMRAT

C-130 MODEL

ARMORED
PERSONNEL
CARRIER



DESIGN AND
MANUFACTURING COMPANY
UKRAINIAN ARMOR

2019



DESIGN AND MANUFACTURING COMPANY UKRAINIAN ARMOR

Design and Manufacturing Company “Ukrainian Armor” produces specialized armored vehicles Varta and Novator in different modifications and for different purposes, such as surveillance and reconnaissance, border patrolling, special missions, personnel carrier and medical evacuation. Each model is uniquely designed and incorporates the client’s specific requirements. Mortar launchers and ammunition calibers 60 mm, 81 mm, 82 mm and 120 mm. Our company also provides a full range of services in modernization of military equipment armoring of civilian vehicles, skills transfer and training of soldiers, creation of a service center for the modernization of equipment. Training End User, ongoing maintenance support, warranty support, spare parts and services. Ukrainian Armor company offers transfer of technologies for production and assembling of specialized armored vehicles in an end-user country.



ARMORED PERSONNEL CARRIER

GENERAL SPECIFICATIONS

VARTA KAMRAT (C-130 MODEL)

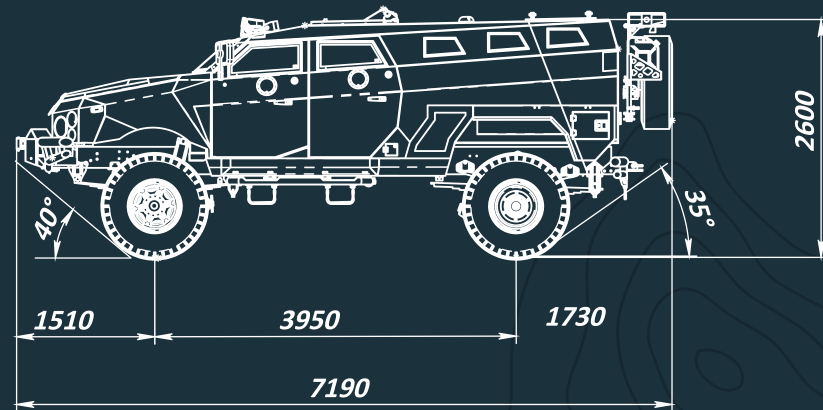


Armored vehicle VARTA is designed taking into account modern demands, successfully passed all tests and now has been accepted for service and is being serially delivered to the Ukrainian army and abroad. We have modernized APC VARTA in part of armored body, demountable gunner turret for transportation and number of other improvements and modernizations while retaining performance of APC VARTA in MRAP (Mine Resistant Ambush Protected) type and protection standards.

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 can be equipped with combat unit "Sarmat" (12.7 mm caliber) and anti-tank missile system "Corsar" (107 mm caliber) or anti-tank missile system "Skif" (130 mm and 152 mm caliber).



SPECIFICATION



PROTECTION

Protection against firearms 7.62x39 mm 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 / 2550 / 2600 mm

ENGINE

6-cylinder in-line diesel engine, 320 hp, 1050 N•m

MAXIMUM SPEED

100 km/h on road

FUEL TANK CAPACITY

350 l

TIRE SIZE

445/65 R22.5 or 14.00 R20

CREW MEMBERS

10

GVW

14 600 kg

TRANSMISSION

Allison 3000SP, Automatic

MAXIMUM RANGE

700 km on the high-type road

FORDING

0,75 m

SIDE SLOPE

20°

GRADIENT

30°

GUN PORTS

10

RUNFLAT SYSTEM

Allows continued operation even after a loss of some or all inflation pressure for up to 50 km on off road

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

APC VARTA can be equipped with combat unit "Sarmat" (12.7 mm caliber) with anti-tank missile system "Corsar" (107 mm caliber) or "Skif" (130 mm and 152 mm caliber).

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.

Can be transported by Lockheed C-130 Hercules aircraft



CHASSIS

APC VARTA is built on a 4x4 Kraz chassis, which is reliable even in the most challenging and difficult road conditions.

ENGINE AND TRANSMISSION

Equipped with 6 cylinder in-line diesel engine dispelling 320 hp. Employs 1050 N•m.





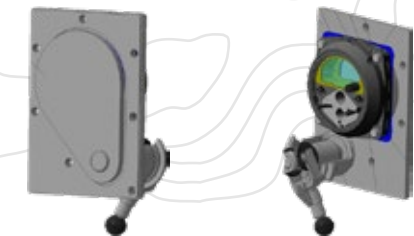
ARMORED CAPSULE

Built with Swedish Armor from 560 Steel, the VARTA can withstand a direct hit from armor-piercing incendiary 7.62 mm ammo. The VARTA engages bulletproof glass of the same protection level as the armor and it's external installation method enables quick replacement if damaged. Ballistic plates surround the engine for additional protection. V-shaped hull of the VARTA armoured crew compartment gives protection to the passengers able to withstand a detonation charge equivalent to 6 kg of TNT.



WEAPON

APC VARTA can be equipped with combat unit "Sarmat" (12.7 mm caliber) with anti-tank missile system "Corsar" (107 mm caliber) or "Skif" (130 mm and 152 mm caliber).



The system is completed with 130 mm and 152 mm caliber missiles in Transport and Launching Containers with tandem hollow-charge (RK-2S, RK-2M-K) and highexplosive fragmentation (RK-2OF, RK-2M-OF) warheads.

SPECIFICATION

	RK-2S, RK-2OF Missiles	RK-2M-K, RK-2M-OF Missiles
Firing range, m:		
at daytime	100-5000	100-5500
at night time	100-3000	100-3000
Missile guidance system	by laser beam with target tracking in TV or thermal imaging channels in manual or auto mode	
Warhead:		
tandem hollow-charge, armour penetration behind ERA, mm	not less than 800	not less than 1100
high-explosive fragmentation with EFP:		
armor penetration, mm	not less than 60	not less than 120
number of fragment, pcs.	not less than 600	not less than 1000



“CORSAR” light portable missile system is intended to destroy stationary and moving armored targets and other objects with combined, carried or monolithic armor, including explosive reactive armor (ERA), as well as pinpoint targets such as weapon emplacements, light-armored objects and helicopters.

“CORSAR” light portable missile System consists of:

- Launcher with Guidance Device;
- Mount;
- Thermal Imager;
- Missiles in Transport and Launching Containers (RK-3OF; RK-3K; RK-3I)

SPECIFICATION

Guidance system	semiautomatic by laser beam
Warhead:	
tandem hollow-charge, armour penetration behind ERA, mm	not less than 550
high-explosive fragmentation with EFP, armour penetration, mm	not less than 50



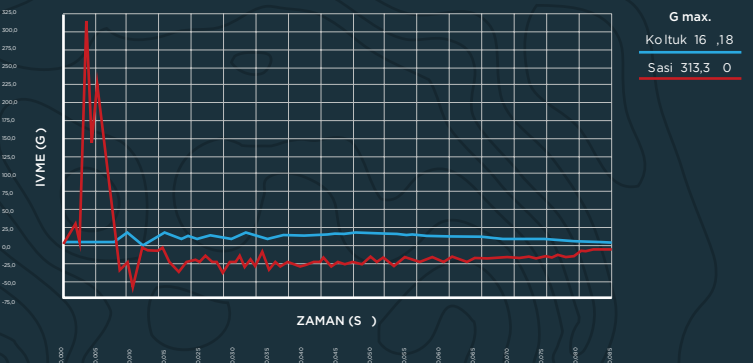
ANTI-MINE SEATS

**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.

WHEELS & ARMORED RIM PROTECTION

Special off-road tires 445/65 R22.5 or 14.00 R20. Tubeless with high floatation and security. Spare wheel with cover and special winch thanks to which it is possible to lift the spare wheel by one person.



CENTRAL TIRE INFLATION SYSTEM

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.

RUN FLAT SYSTEM

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. The ergonomic instrument panel has waterproof and anti shock sensors and switches.



WINCH

The vehicle has an electric shock protection and water proof winch with towing capacity 10 t and synthetic rope or steel cable 30 m. In order to increase traction, a set of pulley blocks can be installed.

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.



FIRE EXTINGUISHING SYSTEM

High speed fire suppression system for:

- crew compartment
- engine compartment

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.



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

DESIGN AND
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UKRAINIAN ARMOR

18 O.Dovzhenko str., Kyiv 03057
Ukraine

Tel. / Fax: +38044 337 70 10

info@ukrarmor.com

