



NAUDI

National Association of
Ukrainian Defense Industries

**UKRAINIAN
ARMOR**

Design and
Manufacturing
Company



KAMRAT-L

SPECIAL-PURPOSE ARMoured VEHICLE

PURPOSE

Armored personnel carrier VARTA (export name Kamrat-L) is designed for transportation of military personnel and cargo of the Armed Forces units and other military and security authorities; conducting reconnaissance, patrolling and escorting vehicles during special missions, as well as to protect the crew from small arms fire, mines and shell fragments.

In 2015-2016, VARTA (export name Kamrat-L) specialpurpose armoured vehicle successfully passed all official compliance tests according to the program and test methods of the Ministry of Defense of Ukraine, the National Guard of Ukraine and the State Border Guard Service of Ukraine.

Depending on the needs of the customer, the vehicle can be manufactured in the following modifications:

- command and control vehicle;
- vehicle for control and transportation of the UAVs;
- medevac vehicle;
- mobile mortar complex and a vehicle for transporting a mortar complex;
- radiation, chemical and biological protection vehicle.

TECHNICAL SPECIFICATIONS

PROTECTION	STANAG 4569, Level 2. Protection against 7.62x39 API from a distance of 30m and protection against mine blast under any wheel or center up to 6 kg TNT.
WHEEL BASE	4 x 4 (chassis with increased all-terrain operation capability)
LENGTH / WIDTH / HEIGHT	7,190 / 2,250 / 2,850 m
ENGINE	6-cylinder in-line turbo diesel, 270 or 380 hp, 1,128 or 1,250 N*m at 1200-1600 rpm.
MAXIMUM SPEED	100 km/h
FUEL TANK CAPACITY	350 liters
TIRE SIZE	14.00 R 20 or 16.00 R 20
CREW	2+8
GVW	17,500 kg
WHEEL BASE	3,950 mm
GROUND CLEARANCE	320 mm
ELECTRICAL SYSTEM	24V
TRANSMISSION	9 Gear Manual Transmission
MAXIMUM RANGE	1,000 km on a road
FORDING	1.2 m without preparation
SIDE SLOPE	20°
GRADIENT	30°
GUN PORTS	10



ANTI-MINE SEATS

Modern anti-mine seats tested in accordance with STANAG 4569 and are certified according to NATO AEP-55 standard.

EQUIPPED WITH:

- energy damper attenuation system
- wall mounting
- 5-point seatbelt
- folding seats
- foldable headrests
- waterproof external coating

TIRE INFLATION

Automated Centralised Tire Inflation System. For various road surfaces. RunFlat allows the vehicle to continue operation even at a pressure loss on a distance up to 40 km at a speed 20 km/h.

WINCH

The vehicle is equipped with a water -proofed electrical winch (tropical type) with towing capacity at least 9 tons, with a synthetic steel cable not less than 25 m.

EQUIPMENT

Front and rear view camera, GPS navigation. **FIRE-FIGHTING SYSTEM**

Automatic fire extinguishing system for the personnel compartment with ultraviolet and infrared sensors.

ARMAMENTS

The vehicle is equipped with a gunner station with a gunner protection kit on the roof that can support 7.62mm or 12.7mm machine guns.

LIVING FACILITIES

Air conditioning, heating, ventilation, first aid kit, powder gas ventilation system.

FILTERING AND VENTILATION UNIT

Protects against natural air pollution, use of weapons of mass destruction (CBRN).

SEATS

Military-grade anti-mine seats with five-point seat belts.

CHASSIS

APC VARTA (export name Kamrat-L) is built on a specialized 4x4 two-axle "all-terrain" chassis with a centralised tire inflation system and special shock-absorbers of bilateral action ensuring reliable operation even in the most extreme and difficult operating conditions.

ENGINE

At the customer's choice, the vehicle is offered in two options with turbocharged diesel 6-cylinder V-type engines of 270 hp or 380 hp. The maximum torque is 1,128 N*m or 1,250 N*m, which ensures significant acceleration dynamics. The engine is not demanding in terms of fuel quality and is easy to maintain. The maximum speed of the vehicle on the road is 100 km/h.

TRANSMISSION

9-gear manual transmission with synchronizers on all forward gears.

SUSPENSION

Specially designed for operation in difficult road conditions. Energy-consuming shock absorbers and additional spring blades ensure smooth operation of the suspension at high speeds in off-road conditions.

VEHICLE ARMoured CAPSULE AND ENGINE PROTECTION

V-shaped geometry of the armoured capsule of APC VARTA (export name Kamrat-L) allows withstanding a mine explosion with a capacity of up to 6 kg in TNT equivalent.

The high-quality 56B type Swedish armour steel provides protection against direct impact of small arms API bullets of 7.62mm calibre. The external method of armour glass installation allows fast replacement in case of damage. The vehicle engine is surrounded with additional armour plates and is completely protected from 7.62mm API bullets.

WHEELS

To maintain the mobility of the vehicle in extreme conditions, VARTA (export name Kamrat-L) is equipped with off-road tires with protective caps and a centralised tire inflation system.

AUTOMATIC CENTRALISED TIRE INFLATION SYSTEM

APC VARTA (export name Kamrat-L) is equipped with a centralised tire inflation system, in case of significant damage when air leakage exceeds the rated compressor performance ensures:

- required air pressure in the vehicle tires depending on the road surface;
- automatic maintenance of the pressure in tires in case of their damage;
- centralised tire inflation system can be activated while driving or during a stop and does not require exiting the vehicle;
- a wheel will be automatically disconnected from the system in case it is significantly damaged and air losses exceed the rated capacity of the compressor. In the event of critical damage to the wheels, the movement of the vehicle is ensured by rubber Run-Flats, which allow driving in complete absence of tire pressure up to 40 km in off-road conditions. RunFlats consist of three components, which allow quick installation in the tire without use of any special equipment.

CLIMATE CONTROL

The vehicle is equipped with a specially designed autonomous air conditioning and heating system. It ensures a comfortable microclimate within the vehicle at atmospheric temperature range from -40°C to +50°C. The fire-resistant metal dash panel is easily dismantled for access to technical elements of the vehicle. Rear-view mirrors are equipped with electric drive and are heated. The ergonomic dash panel is equipped with waterproof and shock-resistant sensors and switches.

WINCH

The vehicle is equipped with an electric shock-resistant winch with a towing capacity of 9 tons, which is capable of working underwater. It is equipped with a synthetic rope or metal cable 25 m long.

In order to increase the towing capacity, the winch is equipped with a set of load pulley blocks.

FIRE-FIGHTING SYSTEM

The vehicle is equipped with a quick-response fire-fighting system designed according to NATO standards, which suppress fires in the personnel and engine compartments.

The system is equipped with ultraviolet and infrared sensors that detect a fire in 3 milliseconds and suppress it in 250 milliseconds.

The gas used to extinguish fires is safe for human health.

DOORS MECHANISMS AND HANDLES

Easy to operate and ensure reliable operation and locking of the armoured doors of weight over 300 kg. Comply with the FMVSS206 quality standard.

FILTERING AND VENTILATION UNIT

Protects the vehicle personnel from radioactive, chemical and bacterial hazards. It is designed for operation outdoors, both during stops and driving the vehicle, at air temperature range from -40° C to +50° C. The filtering and ventilation unit ensures purification and supply of clean air to the passenger compartment.

VEHICLE LIGHTINGS

The vehicle lightings are made of polycarbonate and provide high shock and moisture resistance. In addition to the standard vehicle lighting kit, which includes headlights, brake lights and turn signals, APC VARTA (export name Kamrat-L) is equipped with four spotlights, blackout headlights and convoy lights to drive during the night and dark periods.

EXTERIOR VEHICLE LIGHTINGS

The interior lighting of the vehicle has full, partial and night camouflage lighting modes. The entire lighting system ensures safe driving of the vehicle during night and dark periods and complies with NATO standards.



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