



# LIGHT ARMORED VEHICLE



DESIGN AND MANUFACTURING  
COMPANY  
UKRAINIAN ARMOR

2020





UKRAINIAN ARMOR

# NOVATOR

SPECIALIZED  
ARMORED  
VEHICLE



TECHNICAL SPECIFICATIONS

MAIN CHARACTERISTICS

Max speed	Up to 140 km/h on road
Drive range	Up to 500 km
Accelerating to 100 km/h	10,6 sec.
Braking distance	8 m at a speed of 40 km/h
Fuel Tank Capacity	160 L
Turning radius	minimum 8 m
Gradient	30°
Side slope	20°
Fording	0,75 m
Blast protection seats (with 5 point belts)	2+3 / 2+7
Tested to the levels stated in STANAG 4569 in accordance with requirements of NATO AEP-55	

ENGINE

Type	Turbo Diesel, Ford V8 Super
Output	Not less than 300 h.p.
Torque	996 N*m at 1600-2800 RPM
Capacity	6,7 L

CHASSIS

Gearbox	6 gear automatic
Wheel configuration	4x4
Runflat system	Runflat Inserts
Wheels and Tires	335/80R20
Suspension	Modernized Heavy-duty Suspension
Chassis	Ford F-550
Brakes	Ventilated brakes with ABS

PROTECTION

Crew Compartment	7,62 bullet impact 57-N-323 with 10 m distance and 850 m/s impact speed
Floor	explosive blast of 2 hand grenades of the RGD-5 type from the bottom of the vehicle and wheel

DIMENSIONS

Length	6400 mm
Height	2385 mm
Width	2350 mm
Wheelbase	3605 mm
Ground clearance	300 mm

WEIGHT

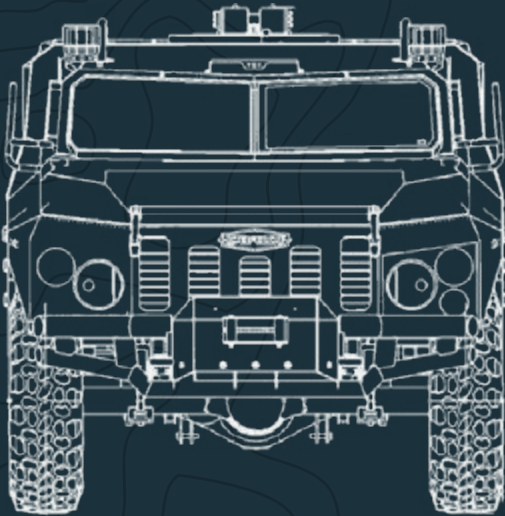
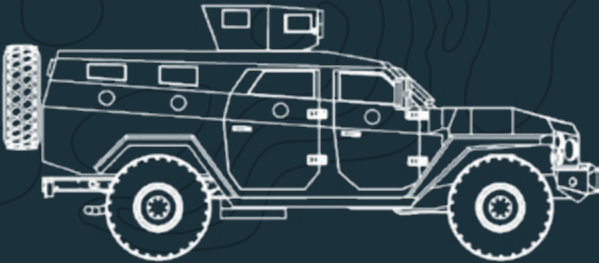
Gross vehicle weight	8845 kg
Payload	1845 kg
Combat weight	7000 / 7945 kg

OTHER FEATURES

- 5 gun ports
  - Air conditioner
  - Heater
- Filter ventilation system
  - Powder gases ventilation system
  - Electrical winch with 7 t towing capacity and 25 m length

SEATING CAPACITY

5 – surveillance and reconnaissance vehicle	8/10 – armored personnel carrier
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ENGINE

Parameter	Characteristic
Type	6,7L Ford V8 Turbo Diesel
Engine Output	Not less than 300 h.p.
Engine Torque	996 N*m at 1600-2800 RPM
Number of Cylinders	8
Engine Starter	Electrical Starter
Fuel Consumption	20 L
Max speed	140 km/h

PROTECTION

The protection is equal to STANAG 4569 level

Parameter	Characteristic
Protection level	PZSA-4;
Weapon	<ul style="list-style-type: none"><li>Assault rifle AK-74</li><li>SVD rifle</li></ul>
Bullet type	<ul style="list-style-type: none"><li>5,45 mm bullet, 7H10 (bullet with a steel core in a steel shell)</li><li>7,62 mm bullet, 57-H-323c (bullet with a steel core in a steel shell);</li></ul>
Bullet mass:	
<ul style="list-style-type: none"><li>7H10</li></ul>	3,6 g.
<ul style="list-style-type: none"><li>57-H-323c</li></ul>	9,6 g.
Distance, m	10,0±0,5
Bullet speed, m/s:	
<ul style="list-style-type: none"><li>7H10</li></ul>	910±15
<ul style="list-style-type: none"><li>57-H-323c</li></ul>	850±15
Floor pan protection	2 hand grenades RGD-5



BULLETPROFF GLASS

- Multi-layer bulletproof glass with additional antispall layer
- External mounting gives more space inside the vehicle

ANTISPALL MIRRORS







## 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.



## ELECTRIC WINCH

LAV NOVATOR is equipped with an electric shock protection and water-proof winch with towing capacity 7 t and steel cable 25 m.







ARMAMENT

The IVA module is designed for installation and use on armored vehicle in order to destroy light armored targets, firing points, manpower and air targets (such as a "hovering helicopter").

The combat module provides monitoring of the surrounding terrain, surface and coastal environment in day and night conditions, auto tracking of the target, measurement of angular coordinates and range to the selected target for its destruction.

Parameter	Characteristics
Mass, kg	280
Number of operators	1
Armament	<ul style="list-style-type: none"><li>• 12,7-mm machine gun NSVT</li><li>• 7,62-mm machine gun KT-7.62 and 12,7- mm machine gun NSVT</li><li>• 12,7-mm machine gun NSVT and 30/40 mm automatic grenade launcher KBA-117</li></ul>
Electro-optical fire control system:	
• day aim:	colour telecamera with dual fields of view
• night aim:	noncooled thermal imagery camera
Target detection range, m	from 160 to 7000
Aiming angles:	
• horizontally:	360°
• vertically:	from -10° to +70°
Aiming speed:	
• horizontally:	from 0,02°/s to 40°/s
• vertically:	from 0,02°/s to 40°/s





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## RUN-FLAT SYSTEM

Allows to continue driving even if the tire is damaged and pressure loss up to 20 km/h over a distance of 40 km.

It consists of three parts that can be quickly installed without special equipment.



## DOOR MECHANISM

The door mechanism is easy to operate and allows power locking of heavy-duty doors up to 300 kg.



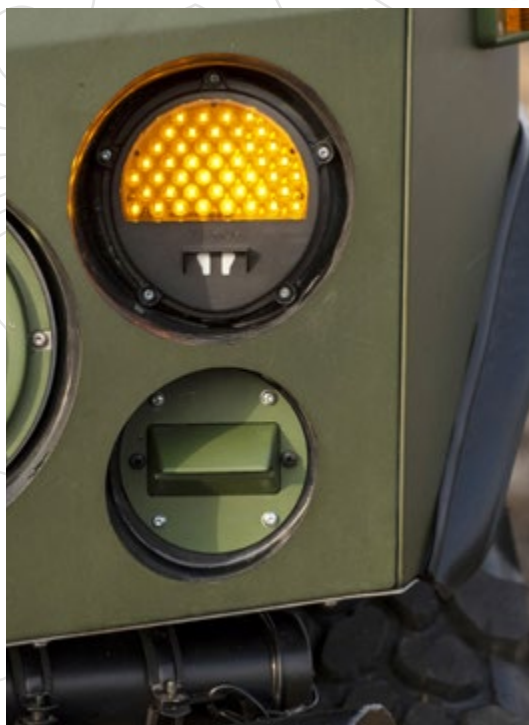
## LIGHTS

Lights are made of polycarbonate materials. They provide impact protection and water resistance.

In addition to the standard set of car lights, which includes front lights, stop lights and turn indicators light armored vehicle "Novator" equipped with pilot light, a black-out light and convoy lights for moving in the dark.

Interior lighting has a full, partial and night camouflage lighting modes.

It creates conditions for safe vehicle movement in the dark and meets NATO standards.



## ANTI-MINE SEATS

The seats are tested according to STANAG 4569 in accordance with the requirements of NATO AEP-55.

Modern anti-mine seats provide a high level of explosion protection and have 5-point safety belts.







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LIGHT ARMORED VEHICLE





Design and manufacturing company «Ukrainian Armor» has considerable experience in design and production of weapons and military equipment for the needs of the Armed forces and other military formations, as well as foreign clients.

One of the main directions of «Ukrainian Armor» is the development and production of armored vehicles «VARTA» and «NOVATOR» for the transportation of personnel and modifications based on them: ambulances, command and staff vehicles, artillery fire control stations with various combat modules and other purposes.

Due to our scientific and production potential, our company has focused on developing various types of modern weapons and ammunition, such as mobile mortar systems, heavy machine guns, mortars (including silent), mortar and artillery shots of 60 mm, 81 mm, 82 mm, 120 mm calibers.



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