

PRAKTIKA KOZAK 5



KOZAK 5 is armored utility vehicle, intended for both tactical tasks of low intensity and for usage by police units or special operations forces. Due to small overall dimensions (the smallest among PRACTIKA armored vehicles) KOZAK-5 is perfect for actions in dense-built urban areas.



DESIGN FEATURE

Based on the chassis of world-known heavy-duty pickup truck Ford F550, with series of measures to increase suspension performance of the basis chassis. Armored hull is divided into two compartments, but made as entire body, for higher rigidity (10 persons crew modification is single compartment).



KOZAK 5 is lightweight armored vehicle for special forces, designed to perform police or auxiliary military tasks. Is intended for small groups transporting and using its body as armor screen in case of skirmishes. Also can be equipped by ladder for buildings assault.

Also vehicle has complex of anti-blast features that provides STANAG 4569 level 2 of blast protection, that is uncommon for vehicles of this class

Key feature - outstanding dynamic characteristics due to the extremely high power-to-weight ratio (34,5 HP/t). The maximum road speed of vehicle is 150 km/h

Kozak 5 based on 4x4 truck Ford F550, chassis specially enforced (front axle strengthening, suspension and brakes enforcing, bigger wheels installing for armored vehicle bulding)



OFF-ROAD CAPABILITIES

**DUE TO POWERFUL DRIVELINE (34.5 HP/T POWER-TO-WEIGHT RATIO)
VEHICLE HAS EXCELLENT ON-ROAD AND OFF-ROAD CAPABILITIES:**

- 150 km/h maximum speed
- 60% approach angle
- 30% side slope
- 0,8 m. fording depth
- 300 mm. ground clearance



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SUSPENSION

KOZAK-5 is built on the chassis state-of-the-art increased payload of basis chassis suspension. Armored capsule has two compartments, but is made as entire body, for higher rigidity (10-persons modification has one compartment).

Option 1 (simplified) - suspension reinforcement.

In this case the load capacity of stock chassis is increased by implementing of following reinforcement works:

- strengthening of front axle housing
- replacement of shock absorbers
- replacement of coil springs
- installing of bigger wheels with heavy-off road tires
- speedometer reprogramming

Option 2 (fullfledged) - suspension replacement.

In this case stock axles are replaced by new, stronger ones, produced by world-famous company Meritor. Such axes have following benefits:

- 2 t higher payload capacity of front axle
- stronger coil springs and shock absorbers
- Milspec wheel ends (designed for JLTV)
- Central tire inflation system (CTIS)
- patented Meritor Quadraulic brakes
- higher durability for heavy off-road conditions

In case of Option 2 due to the milspec elements of the Meritor suspension, KOZAK-5 acquires off-road characteristics at the level of full-grade tactical vehicles.



ERGONOMICS

Crew compartment of KOZAK-5 was designed bearing in mind that crew can spend a long time inside vehicle during performing of combat mission.

That's why crew compartment is spacious, with comfortable internal height, noise and thermal protection. The seats for crew and driver has special anthropometric shape due to it, soldiers remain less tired after long trips. Also crew compartment has internal lighting system with several levels of light and individual «goose-neck» lamps of directional light.

- DURABLE AND NON-FLAMMABLE SEAT COVERING
- VIDEO OBSERVATION SYSTEM MONITOR
- AUTOMATIC FIRE SUPPRESSION SYSTEM
- REMOTE CONTROL OF SEARCHLIGHT
- DEADBOLT DOOR LOCKS
- NAVIGATION DEVICE
- CLIMATIC SYSTEM
- INNER LIGHTS



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LOGISTICS

One of key KOZAK-5 advantages is its easy logistics. Due to comparatively small overall dimensions and lesser weight vehicle is able to be transported by Naval Ships or Aircrafts, both Military and Commercial, and by railroads.



BALLISTIC PROTECTION

Is provided by ARMOR STEEL and BULLETPROOF GLASSES

Armor steel is specially alloyed steel with ultra-high hardness (480 – 540 HB) in the same time highly plastically. It's being manufactured in Finland by «Miilux Oy» company. Bulletproof glass is multilayered glass. Separate layers of glass are connected by special PVB-film layers and made by PRACTIKA.



TESTS



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Ballistic level of protection is level 2 (STANAG 4569)



Ballistic protection of PRACTIKA armored vehicles is done by ballistic steel and bulletproof glass. Ballistic steel is a specially alloyed steel that combines ultra-high hardness and high plasticity. Bulletproof glass are in-house manufactured, constitutes a special sandwich of separate layers of glass connected by polymer film layers, that retains the projectiles by such multilayer structure. STANAG 4569 level 2 (protection against armor-piercing bullets of 7.62 mm) basic level of ballistic protection.

MULTITASKING

Armored personnel carrier



Tactical/reconnaissance vehicle



Mortar carrier



Repair vehicle



Command-and-control vehicle



Medivac

