



SPECIAL EQUIPMENT FOR DEMINING TEAMS

RPA «PRACTIKA» HISTORY



Private Joint Stock Company «Research and Production Association «Practika» is leading Ukrainian manufacturer of special vehicles.

Since 1997, the company has been producing special vehicles for a wide range of applications: ambulances, police cars, armoured civilian vehicles (cash-in-transit vehicles, armoured VIP cars, etc.), and since 2014 has focused on the production of military-type armoured vehicles (tactical armoured vehicles, armoured trucks, logistics armoured vehicles, etc.) Over last years, «Practika» has become the main supplier of armoured vehicles to all key power agencies, as of: Armed Forces of Ukraine, National Guard of Ukraine, Border Guard of Ukraine, State Emergency Service of Ukraine, etc.)

During last 9 years more than 500 armored vehicles of various types were delivered, including 200+ vehicles during «roaring» 2022 year. All the vehicles had been delivered are now participating in the War with Russian Federation and protecting the lives of Ukrainian soldiers. Additionally to it, «Practika» has long-term experience in cooperation with organisations involved in humanitarian demining, both domestic (State Emergency Service of the Ministry of Internal Affairs of Ukraine) and international (HALO Trust in Ukraine), for which the following vehicles and equipment were manufactured.

EQUIPMENT FOR DEMINING TEAMS

The problem of landmines and improvised explosive devices left in the ground is one of the most pressing in the modern world, and is now becoming particularly up-to-date for Ukraine.

The clearing of landmines and improvised explosive devices is carried out by using special vehicles that are specially equipped for it. These vehicles clear the area, dig mines out of the ground and transport them to a disposal site. As the clearing process is often carried out right at the time of military conflict going, the vehicles must be adequately protected by armour plates that shield the operator's cab and key technical systems from possible enemy fire.

The company has many long track record in cooperation with humanitarian demining organisations, for which PJSC «RPA «Practika» produces a full line of protected vehicles for various stages of demining operations - vehicles that clear debris and free the way; vehicles that scan the ground/targetedly activate mines; vehicles that transport demining team personnel and vehicles that remove excavated and deactivated mines and improvised explosive devices.



**KOZAK-PM-L
(UXO TRANSPORTER)**



**OPERATIONAL VEHICLE FOR
DEMINING TEAMS**



ARMORED LOADER



ARMORED EXCAVATOR



DUMP TRUCK WITH ARMORED BASKET



ARMORED TRACTOR



ARMOR SHIELD (MOBILE)



ROBOT-CUTTER

UXO TANSPORTATION VEHICLE

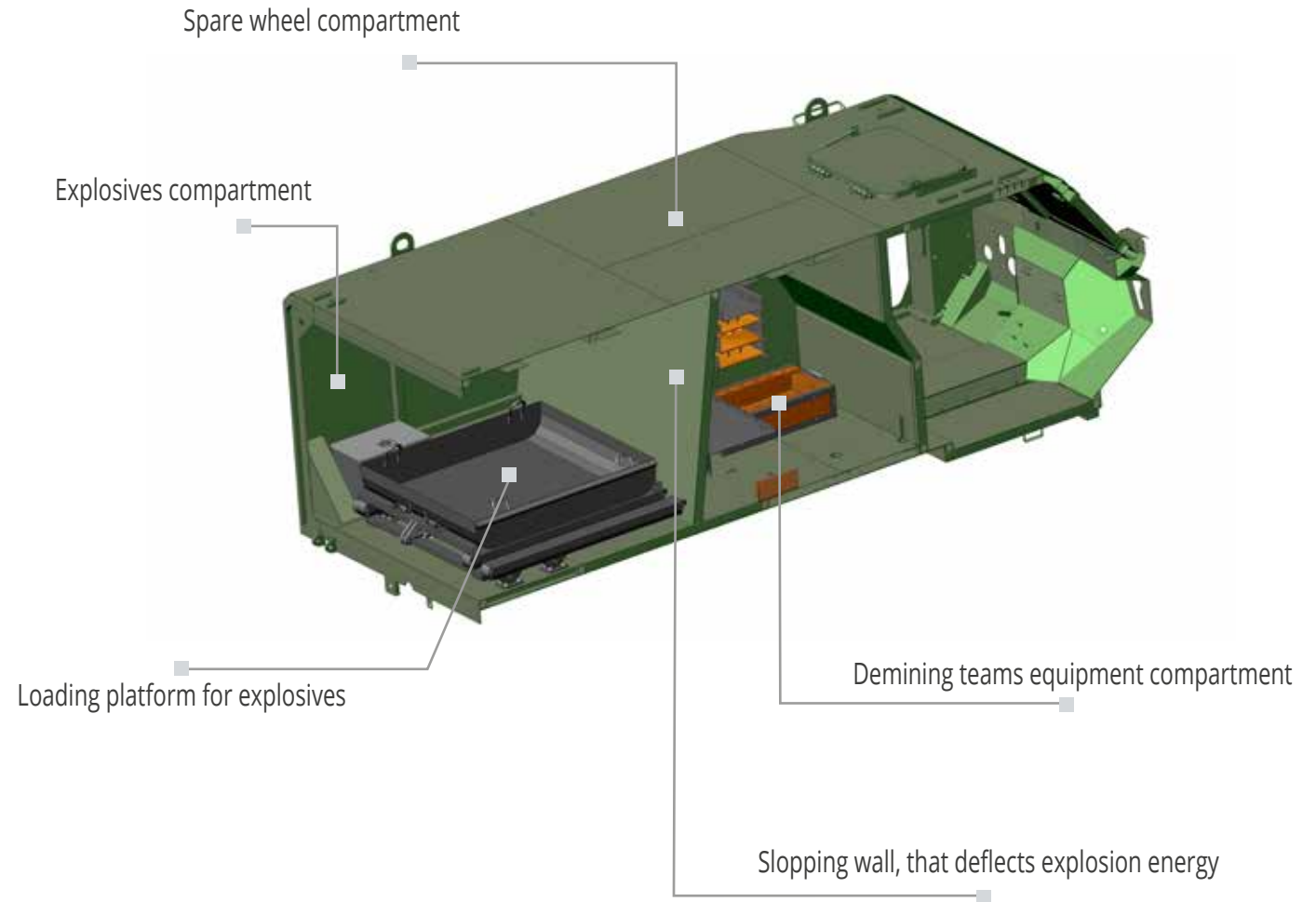
KOZAK-PM-L



SPECIAL EQUIPMENT FOR DEMINING TEAMS



A special armoured vehicle, designed for transportation of landmines and IEDs to places of its disposal. A distinctive feature of vehicles is special design of hull, developed for the cases of sudden detonation of the transported explosives.



KOZAK PML has number of design measures to protect the crew in the event of mines and IEDs explosion.

OPERATIONAL VEHICLE WITH BLAST PROTECTION

Designed to transport personnel of demining teams. The vehicle is equipped with mine-resistant floor and side armour to protect it from being damaged by small explosive devices such as anti-personnel grenades or small landmines. The SUV is equipped with a reinforced tube frame that is installed inside the capsule and prevents deformation of the vehicle body in case of roll-over, and the suspension of the SUV's chassis has been reinforced (springs, shock absorbers, stabiliser, stabiliser bushings and springs have been replaced), as well as the explosives being transported.

TOYOTA LAND CRUISER 78



LAND ROVER



In the role of basis vehicle are taken SUVs whose suspension can be subjected to suspension reinforcement, which is necessary to maintain the driving characteristics of the base vehicle after armoring. The most suitable are the Japanese Toyota Land Cruiser 70-series, which is a kind of legend in its class, and the British Land Rover Defender, which for decades has been one of the most widely used off-road vehicles in the world.

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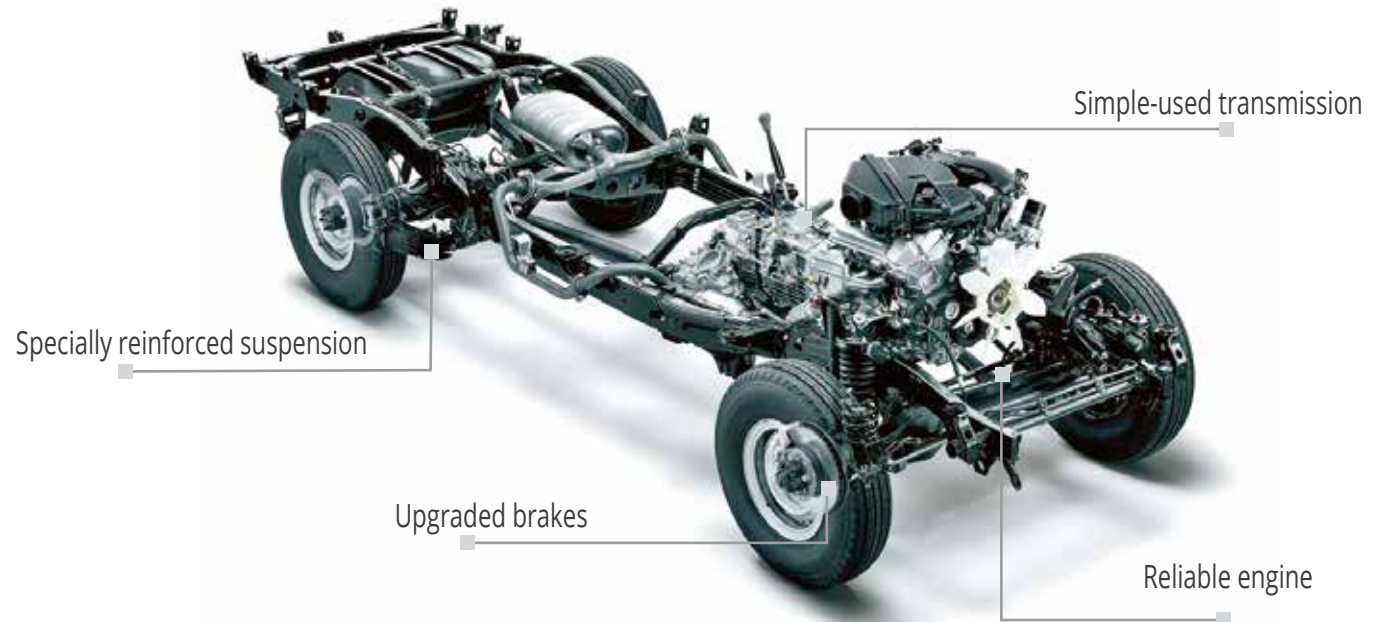
Anti roll-over frame

A special roll cage frame is installed in the middle of the SUV cabin. It is specially adapted to prevent deformation of the body in the event of its overturn. The frame was developed separately by the British company Safety Devices International Ltd, which, as its name suggests, specialises in designing such products to increase vehicle safety.



Blast protection

The bottom of the vehicle is equipped with enforced V-shaped plate that protects against the explosion of anti-personnel grenades and small mines. The bottom is made of special low-alloy steel, which is optimal for solving the problems of absorbing, on the one hand, and deflecting the blast wave, on the other hand (interrelated functions that together provide mine protection).



DEBRIS CLEANERS



RPA «Practika» produces armoured vehicles for clearing of blackages and debris. The armoring includes the protection of driver's cabin, key technical systems and some modification of bucket for excavators (installation of vertical plates for sifting soil).

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Armored loader

Modified version of a civilian front-end loader with an armoured operator's cab and armour protection for technical systems. Is equipped with a bucket with vertical plates that sifts the earth and separates mines from the soil.



Armored excavator

It is designed to clear rubble and dig mines out of the ground. It is a modified version of a civilian excavator with an armoured operator's cab and armor protection for critical technical systems.



Armored tractor

Modified version of the all-terrain wheeled tractor with an armoured operator's cab and armour protection for the main technical systems. Is used as basis platform for installing and operating a variety of high-tech mine detection equipment.

ARMORED DUMP TRUCK



Armoring of bucket

Truck has a special bucket, made of 8,0 mm. armor steel. This upgrade serves for two functions - the protection of environment from contaminated soil in case of works in areas of radiation of chemical containment zone; and the protection of driver from cargo explosion in case of general UXO transportation

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Mobile protective shield

Mobile shield for «mavable» protection of demining teams operators. Made of armor steel and is equipped with a viewing window made of bulletproof glass, two wheels, and the hook for easing of its dragging and loading to the vehicle.

SPECIAL EQUIPMENT FOR DEMINING TEAMS



Robot-Cutter

A remote-controlled robotic cutter intended to clear the area of demining works from bushes, tall grass and trees. It has a brush-like cutter and a special trencher attachment that can be used to dig holes around explosive devices.

CONTACTS:

www.practika.ua

