

## ACTIVE DEFENCE AND RAPID DEPLOYMENT CAPABILITIES

SVOS provides a large variety of specific police features on its vehicles either for regular patrol duty or for SWAT teams. Starting with discreet or visible weapons mounts which retain the ballistic and blast protection of the vehicle up to special SWAT bridges for rapid interence and police teams insertion on buildings, trucks, buses or planes. All solutions are service-proven by world-recognized top police forces and are therefore designed with respect to the specific police needs. The quantity of modified vehicles allows easy selection of pre-designed choices for perfect match with unique needs of each operator.

With the comfort and safety of the police forces in mind, the SVOS law-enforcement vehicles provide unparalleled level of protection allowing safe execution of the intervention and return of the policemen from its site.



## FROM FEELING SAFE TO FEELING SECURE

The safety of our customers is for us at SVOS an absolute priority. This is why we do all our engineering, production and assembly in-house with selection of raw materials only from the well-proven sources. All is under our uncompromising quality control. All processes are in the single facility located in Přelouč, Czech Republic. Based on continuous growth over almost thirty years we established a brand new facility recently.

Every incoming material is sampled and tested, every assembly is tested, designs are reviewed by boards of experts, all processes are regularly audited for reaching the highest level of safety. We perform vehicles live shooting and blasts tests regularly every year and always seek for higher safety and better protection solutions. We even design and produce our own ballistic glass. Our experts are able to work with various ballistic and blast protection standards regardless of their origin or language.

In the same way we focus on minimizing the human error and all the material processing is done with an extensive

use of CNC controlled machines, no matter if we speak about steel armour or ballistic glass. In the result we can offer to our customers maximum production accuracy, very short delivery terms, almost limitless flexibility and absolute reliance on our work.

Our endeavour to provide to our customers the safest solution goes so far that we have developed and designed several patented & protected design technologies, which are fully utilized in our vehicles. Our technologies and materials can be also found in vehicles promoted by many world-known automotive OEM brands.

We produced thousands of armoured vehicles and once you experience the company proactive approach combined with unparalleled protection level, you know there is no better way how to feel secure than driving SVOS vehicle. And you can be sure for us the work does not end with vehicle delivery, because we are here to support you during the whole period of operation no matter if you need just spare parts, improvements or another new vehicle.



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**Law enforcement vehicles**

**Best protection for police duty**



## STANDARD VEHICLE FEATURES

### BODY IMPROVEMENT & PROTECTION

- Discreetly-visible armouring solution
- Selectable level of ballistic protection
- Extremely high level of blast protection
- State-of-the-art ballistic glass segments produced by SVOS
- Reinforced door hinges and other structural elements
- Optional emergency escape hatch

### SYSTEMS IMPROVEMENT & PROTECTION

- Armoured accumulator batteries & ECU
- Armoured fuel tank
- Dual optima-gel batteries
- Reinforced and upgraded suspension system
- Modified braking system

### DRIVING CAPABILITIES

- Complex modification allowing low impact on driving capabilities
- Weight distribution on axles allowing to maintain the CoG
- Detailed testing and certification after the modification
- Terrain tyres for all-road operation
- Run-flat rims for operation in case of tyre puncture
- Left-hand and right-hand driving operation

### WORLDWIDE SUPPORT

- Retaining of the original OEM maintenance plan & system
- Availability of SVOS deployable maintenance teams
- Parts pooling and sharing with SVOS stock
- Long term production capability of used glass items
- Online communication and parts ordering



## STANDARD VEHICLE FEATURES

### VEHICLE PLATFORM & ARRANGEMENT

- Modification of sedans, station wagons, SUVs & off-roads
- Variable internal partition and cages system
- Solutions for K9 units, SWAT or pyro-squad special vehicles
- Bull bar or push bumpers on front/rear bumper
- Customized police paint scheme (paint/high-durable stickers)
- Centralized police systems operation

### SPECIAL POLICE FEATURES

- Special weapons pintle mounts (visible or discreet)
- Guns racks, mounts and safes
- Equipment mounting brackets
- Windows wire protection meshes
- Stowage for personal gear (body armour etc.)
- Handcuffs attachment points

### COM/DATA/NAV SYSTEMS

- Police radio installation with PA functionality
- GSM provision plus charging rack for personal radios
- Special GPS navigation on board
- Rack for notebook/tablet for vehicles/persons screening
- Datalink for picture & text receiving
- Cameras for 360° surveillance

### LIGHTING & ACOUSTIC SYSTEM

- Discreet or visible flash-lights
- Internal (behind glass) and external mountings
- LED colours as per customer's requirement
- Special spot/search light installation
- Sound (sirenes) ramp with horns and PA system
- Non-lethal blinding flash lights (fixed and portable)



## BALLISTIC AND EXPLOSIVE PROTECTION:



The law enforcement vehicles armoured by SVOS provide highest-on-the-market level of protection. The exact level of protection is subject to customer's specific requirements with an option to select from pre-designed packages. The protection concept, reflecting company's innovative approach and own design and development efforts, is based on a fully armoured passenger compartment preventing the ballistic and blast threat from endangering the vehicle crew. It includes a complex of patented features including armoured capsule build-in to the vehicle with overlap locks of protected doors and windows and armoured essential vehicle components such as engine control unit, batteries and fuel tank. The result is a vehicle with passenger compartment protected in all directions including roof and floor. SVOS provides a wide variety of rear door arrangement (lift-up door, side opened swing-out door etc.).

An inseparable part of the vehicle protection concept is continuous testing and after-development reflecting the real operation of the vehicles, overall threats development and incidents post-analyses. With such approach

SVOS keeps the tempo with evolving threats and regularly provides updated solutions capable of deployment in the most dangerous operation zones. All protection concepts are proven at the level of used materials as well as at the level of actual vehicles live shooting and blast tests performed by the world top laboratories recognized by NATO and other international agencies. With significant number of attacks and incidents on its vehicles SVOS can guarantee real-operation performance confirming the highest protection levels. Based on real incidents investigation SVOS vehicles proved their protection level even against the multiple simultaneous attacks on the same vehicle.

Although the law enforcement vehicle armoured by SVOS retains its original civilian apparel, as shown below it can easily withstand the explosion of up to two DM 51 hand grenades initiated anywhere around the vehicle (under vehicle or on the roof) as well as explosion of DM 31 land mine under the vehicle. The protection level was thoroughly tested and certified by well-respected international laboratory.

2x DM 51 hand grenades



1x DM 31 land mine / 2x DM 51 hand grenades



## SIDE BLAST AND IED PROTECTION

The law enforcement vehicle armoured by SVOS provides patented world-unique side blast and IED protection. With IEDs being the major threat in the current destabilized regions, SVOS addressed it with its patented protection system guaranteeing the survivability of the vehicle crew even after explosion impact of no less than 15 kg of TNT side blast as well as against IED simulated during testing by the DM 31 land mine and 81 mm HE

mortar round. The unparalleled effectivity of the SVOS may be documented by the fact that the exactly same vehicle was used for multiple tests with perfect result. With detailed live test results and experience from live incidents SVOS may guarantee that its complex of protective features exceeds the world standards and brings the highest-available level of protection for the vehicle retaining still the civilian apparel.

Mortar round 81 mm



15 kg TNT



Anti-personnel mine DM 31

