



samag
trading

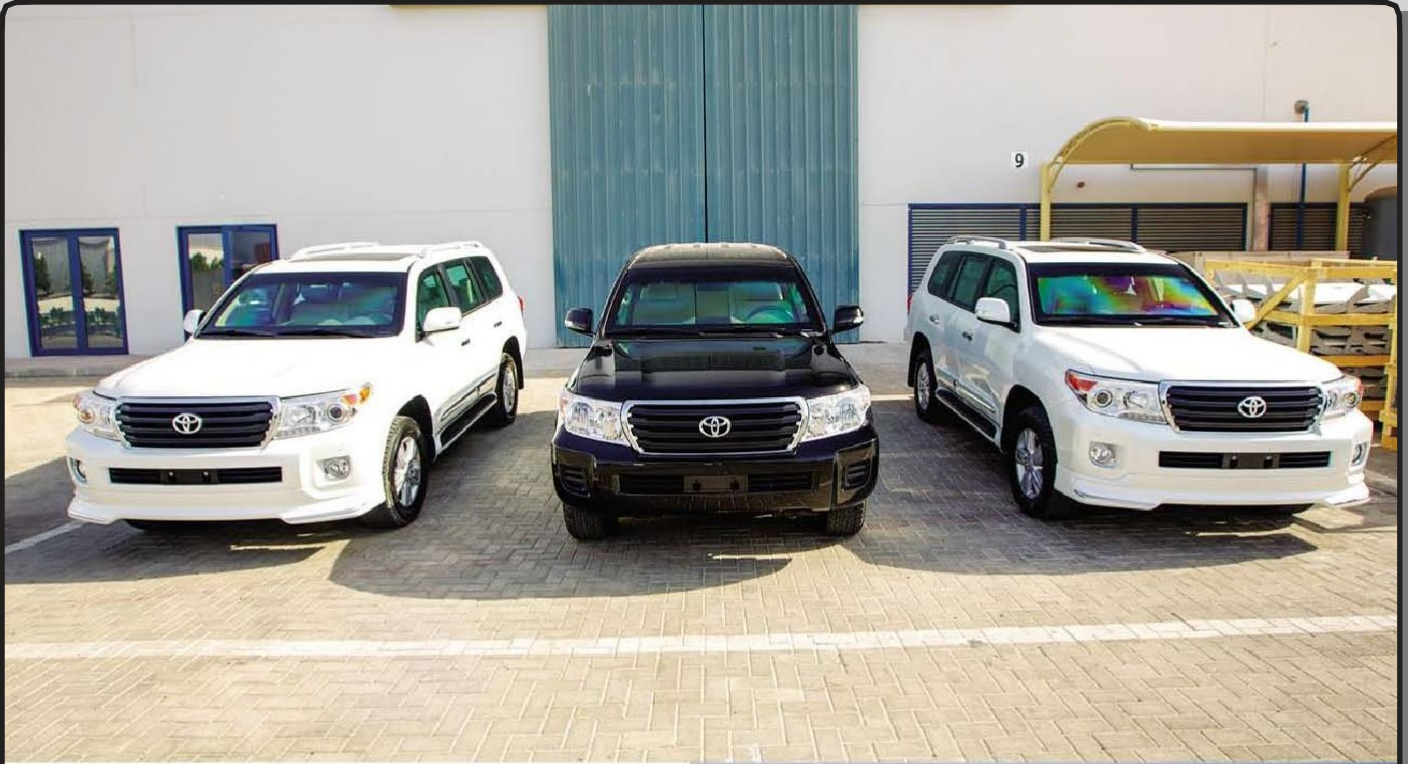
rely on quality





SAMAG ARMoured VEHICLES

Professional and Technical Specifications



SAMAG ARMOURED VEHICLES



STANDARD FEATURES

- Armouring Levels: CEN B6, NIJ III, NIJ IV, CEN B7, STANAG 4569 levels 1 & 2
- Certified Armouring Materials
- High Quality Glass-PVB-PC multilayer anti spill windows
- Run-Flat Devices on All Wheels as Standard
- Upgraded Suspension and Brakes

THE VEHICLES

Samag Armoured Vehicles specialises in high quality armoured vehicles. Our Cars are the perfect choice for a variety of customers including military and peace-keeping forces, police forces, border patrols, security companies, NGO's, embassies, and all organisations and individuals living and working in hostile or high-risk environments.



Samag Armoured Vehicles was established in Dubai bringing together a wealth of experience with all of the management and staff having several years' experience designing and building armoured cars. Expertise and dedication have helped establish MSPV as a serious contender on the sensitive and competitive security market, and MSPV is now renowned and appreciated by customers who already purchased more than 1000 vehicles armoured by MSPV's skilled production team.

Samag has been growing steadily since its creation, the latest move to brand new facilities resulting in higher efficiency and better process control. The current monthly production capacity stands in excess of 60 cars at the Dubai plant and 40 cars at the Aqaba plant with a lead-time of 5 working days for the first unit of a batch, which can be further improved for burst periods to meet urgent customer requirements.

The majority of the production is armoured to level B6 but **Samag** also produces vehicles with higher protection levels, and can adapt the armouring design to meet the customer's specific needs.

Samag range is in constant expansion and covers the most commonly required vehicles (Toyota Land Cruiser 200- and 70-Series, Toyota Hilux, Chevrolet Suburban and Tahoe etc.), with a dedicated R&D team capable of producing new developments at very short notice. **Samag** is now widening its offering with the Panthera, a range of Armoured Personnel Carriers and mine-protected vehicles.

At **Samag Armoured Vehicles** we are fully aware of the need for us to provide our customers with quality products using quality supplies whilst keeping our prices competitive so as to gain an advantage on our competitors. We believe we can meet your requirements with regards to armoured vehicles and offer you competitive solutions, and we hope that we will be given the chance to demonstrate our capabilities.



ARMOURED TOYOTA LAND CRUISER

ARMoured TOYOTA LAND CRUISER

PROTECTION LEVELS

Armoured Toyota Land Cruiser Station Wagon is available in levels of protection B4+ (Kalashnikov AK47 7.62x39 FeC ammunition), B6 (7.62x51 M80, 5.56x45 SS109 – NATO and US assault rifles), B6+ (5.56x45 M193), B7 (7.62x51 P80) and B7+ (7.62x54 API). All four sides of the passenger compartment and the roof of the vehicle are protected using high-quality armour steel and glass to defeat the chosen threat-level. The floor of the vehicle is protected against blast and fragments of explosive threats such as the industry-standard two DM51 hand-grenades or two HG85 fragmentation grenades, with optional protection against land-mines such as the DM311.

Available in VIP, CIT and Personnel transport configurations.



ARMOURING DESIGN

- The armouring is integrated inside the vehicle's cab and forms complete self-supporting structure so as to avoid excessive stress on the vehicle's original structure.
- The interior armour-frame provides overlap for the large-surface armour components such as the door armour-plates and the windows.
- Hinge mounting points are reinforced both in the pillars and in the doors in a way that the armouring of the door is supported by the armouring of the pillar.
- Heavy-duty hinges with in-built door-stop.
- Fuel-tank(s) protected with steel armour-plates.
- The battery and control module of the engine are protected to the same level as the opaque areas.



MATERIALS

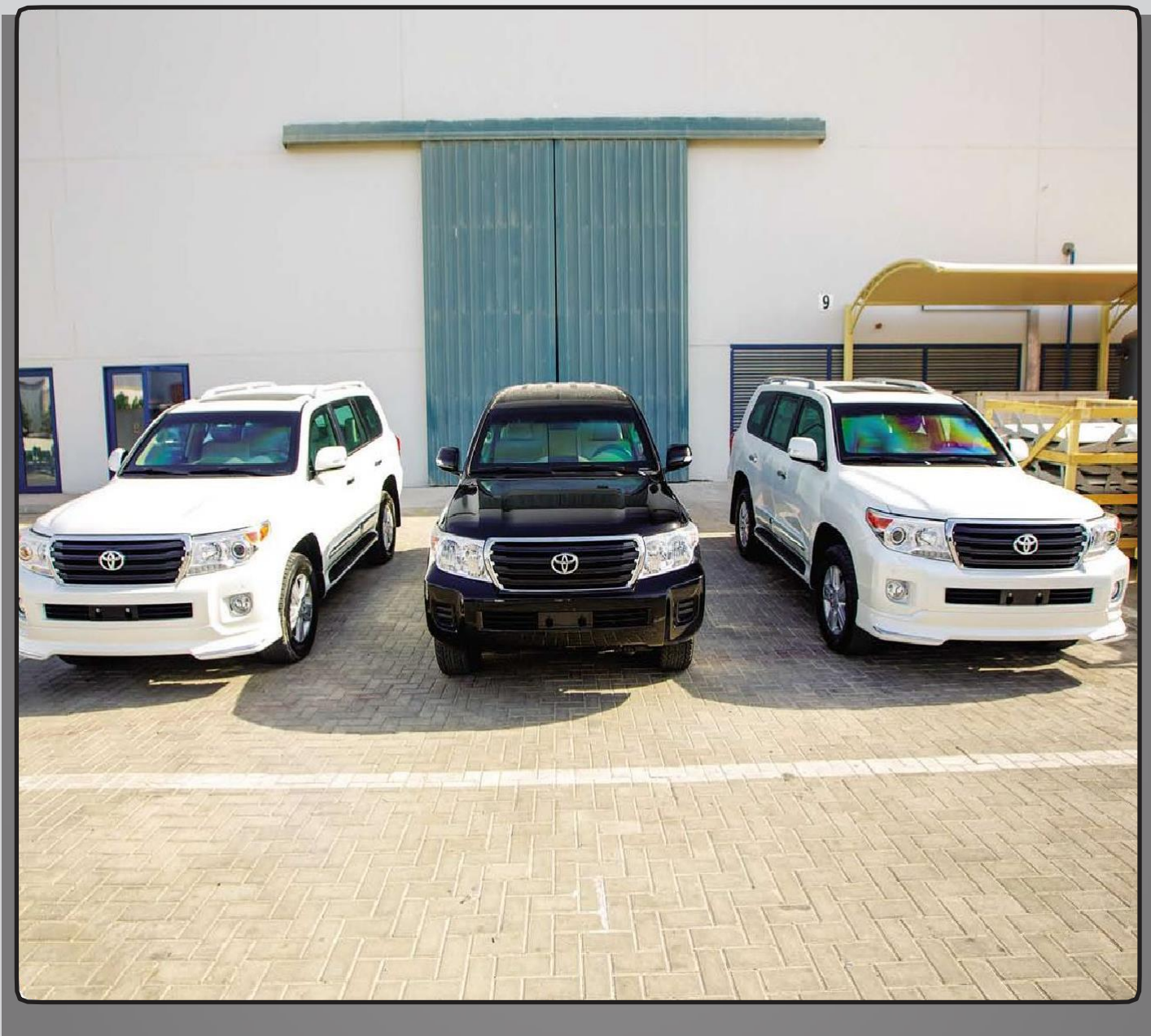
uses exclusive armouring materials ballistically certified by independent laboratories. Glass and steel are tested and certified according to European and international standards. Each batch of steel is tested as part of the normal quality control process of our suppliers, and random samples of the sheets delivered to MSPV are once more submitted for testing by the Beschussamt Munich in Germany.

Beyond this strict quality control process, MSPV regularly submits raw materials and assembly samples for ballistic testing by Beschussamt Munich to assess the limits of the materials and the efficiency of proposed assembly solutions. Welds, bolted assemblies, overlap solutions etc. are tested in this way prior to being used in production.



ISOCLIMA
OMNIAARMOR
09 03 03268

ARMoured TOYOTA LAND CRUISER



ARMoured TOYOTA LAND CRUISER

• CERTIFIED BALLISTIC STEEL AND GLASS • 5 RUNFLATS • B6 OR B7 PROTECTION LEVEL • UPGRADED SUSPENSION



GXR 4.5L DIESEL AUTOMATIC

ARMOURED TOYOTA LAND CRUISER



PROTECTION LEVELS

All four sides of the passenger compartment and the roof of the vehicle are protected using high-quality armour steel and glass to defeat the chosen threat-level. Various protection levels are available ranging from B4+ (AK47 standard ammunition, VPAM APR2006 level 6) to B6 and B7 (Assault rifles with ball or armoured piercing ammunition, CEN1522 and 1063 levels 6 and 7 - VPAM APR2006 levels 7 and 9).

The floor of the vehicle is protected against blast and fragments of explosive threats such as the industry-standard two DM51 hand-grenades or two HG85 fragmentation grenades. Higher blast protection available up to land-mines such as the DM31.

ARMOURING DESIGN

- The armouring is integrated inside the vehicle's cab and forms a complete self-supporting structure so as to avoid excessive stress on the vehicle's original body.
- The interior armour-frame provides overlap for the large-surface armour components such as the door armour-plates and the windows.
- Hinge mounting points are reinforced both in the pillars and in the doors in a way that the armouring of the door is supported by the armouring of the pillar.
- Heavy-duty hinges with built-in door-stop.
- The Fuel-tanks are protected with steel armour-plates.
- The battery and control module of the engine are protected to the same level as the opaque areas.



MATERIALS

All armouring materials used by Samag are ballistically certified by independent laboratories. Glass and steel are tested and certified according to European and international standards. Each batch of steel is tested as part of the normal quality control process of our suppliers, and random samples of the sheets delivered to MSPV are once more submitted for testing by the Beschussamt Munich in Germany.

Suspension and brake upgrade components specifically designed to cope with the higher weight of armoured vehicles are sourced from carefully selected suppliers.

The Samag runflats have also been tested in real life conditions along the finabel standard and were still fully functional after 100km.



ARMOURED TOYOTALAND CRUISER B7

• CERTIFIED BALLISTIC STEEL AND GLASS • 5 RUNFLATS • B7 PROTECTION LEVEL • UPGRADED SUSPENSION



GXR 4.6L V8 PETROL AUTOMATIC

ARMoured TOYOTA LAND CRUISER B7



PROTECTION LEVELS

Land Cruiser 3/4-Armour provides high-level protection and higher dynamic performance thanks to a lower armour weight. The vehicle offers safe transport for up to 5 passengers. Available in levels of protection B4+ (Kalashnikov AK47 7.62x39 FeC ammunition), B6 (7.62x51 M80, 5.56x45 SS109 – NATO and US assault rifles), B6+ (5.56x45 M193), B7 (7.62x51 P80) and B7+ (7.62x54 AP). The floor of the vehicle is protected against blast and fragments of explosive threats such as the industry-standard two DM51 hand-grenades or two HG85 fragmentation grenades. Higher blast protection available up to land-mines such as the DM31. Available in VIP, CIT and Fast Reaction Force configurations.

ARMOURING DESIGN

- The armouring is integrated inside the vehicle's cab and forms a complete self-supporting structure so as to avoid excessive stress on the vehicle's original body.
- The interior armour-frame provides overlap for the large-surface armour components such as the door armour-plates and the windows.
- Hinge mounting points are reinforced both in the pillars and in the doors in a way that the armouring of the door is supported by the armouring of the pillar.
- Heavy-duty hinges with built-in door-stop.
- The Fuel-tanks are protected with steel armour-plates.
- The battery and control module of the engine are protected to the same level as the opaque areas (up to level B6).



MATERIALS

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ARMoured LEXUS LX570

• CERTIFIED BALLISTIC STEEL AND GLASS • 5 RUNFLATS • B6/B7 PROTECTION LEVELS • UPGRADED SUSPENSION



5.7L V8 PETROL AUTOMATIC. AVAILABLE WITH PASSIVE SUSPENSION OR WITH ACTIVE HEIGHT CONTROL.

ARMoured LEXUS LX570



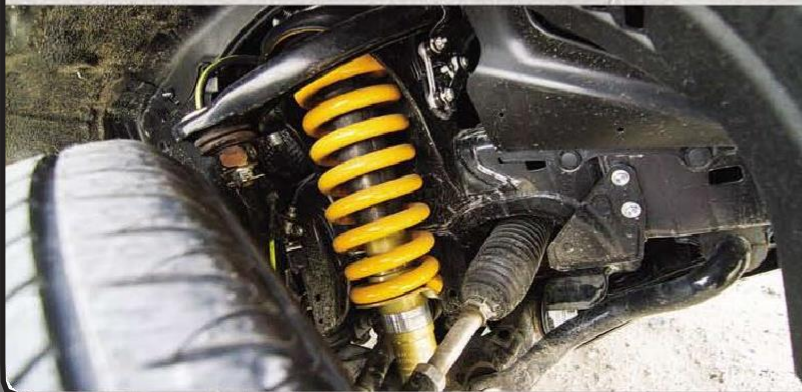
PROTECTION LEVELS

Samag offers the LX570 in protection levels B4+ (7.62x39 FeC AK47), B6 (7.62x51 M80, 5.56x45 SS109 – NATO and US assault rifles), B6+ (5.56x45 M193), B7 (7.62x51 P80) and B7+ (7.62x54 API). All four sides of the passenger compartment and the roof of the vehicle are protected using high-quality armour steel and glass to defeat the chosen threat-level.

The floor of the vehicle is protected against blast and fragments of explosive threats such as the industry-standard two DM51 hand-grenades or two HG85 fragmentation grenades. Higher blast protection available up to land-mines such as the DM31.

ARMOURING DESIGN

- The armouring is integrated inside the vehicle's cab and forms a complete self-supporting structure so as to avoid excessive stress on the vehicle's original body.
- The interior armour-frame provides overlap for the large-surface armour components such as the door armour-plates and the windows.
- Hinge mounting points are reinforced both in the pillars and in the doors in a way that the armouring of the door is supported by the armouring of the pillar.
- Heavy-duty hinges with built-in door-stop.
- The Fuel-tanks are protected with steel armour-plates.
- The battery and control module of the engine are protected to the same level as the opaque areas.



MATERIALS

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The **Samag** unflats have also been tested in real life conditions along the finabel standard and were still fully functional after 100km.

ARMOURED NISSAN PATROL

• CERTIFIED BALLISTIC STEEL AND GLASS • 5 RUNFLATS • B6 PROTECTION LEVEL • UPGRADED SUSPENSION



5.6L V8 PETROL AUTOMATIC

ARMoured NISSAN PATROL



PROTECTION LEVELS

Samag offers the Nissan Patrol in protection levels B4+ (7.62x39 FeC AK47), B6 (7.62x51 M80, 5.56x45 SS109 – NATO and US assault rifles), and B6+ (5.56x45 M193). All four sides of the passenger compartment and the roof of the vehicle are protected using high-quality armour steel and glass to defeat the chosen threat-level.

The floor of the vehicle is protected against blast and fragments of explosive threats such as the industry-standard two DM51 hand-grenades or two HG85 fragmentation grenades. Higher blast protection available up to land-mines such as the DM31.

ARMOURING DESIGN

- The armouring is integrated inside the vehicle's cab and forms a complete self-supporting structure so as to avoid excessive stress on the vehicle's original body.
- The interior armour-frame provides overlap for the large-surface armour components such as the door armour-plates and the windows.
- Hinge mounting points are reinforced both in the pillars and in the doors in a way that the armouring of the door is supported by the armouring of the pillar.
- Heavy-duty hinges with built-in door-stop.
- The Fuel-tanks are protected with steel armour-plates.
- The battery and control module of the engine are protected to the same level as the opaque areas.



MATERIALS

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ARMOURED CHEVROLET SUBURBAN

• CERTIFIED BALLISTIC STEEL AND GLASS • 5 RUNFLATS • B6/B7 PROTECTION LEVELS • UPGRADED SUSPENSION



3/4 TON 4WD 6.0L V8 PETROL AUTOMATIC

ARMoured CHEVROLET SUBURBAN



PROTECTION LEVELS

Armoured Chevrolet Suburban is available in levels of protection B4+ (Kalashnikov AK47 7.62x39 FeC ammunition), B6 (7.62x51 M80, 5.56x45 SS109 – NATO and US assault rifles), B6+ (5.56x45 M193), B7 (7.62x51 P80) and B7+ (7.62x54 API). All four sides of the passenger compartment and the roof of the vehicle are protected using high-quality armour steel and glass to defeat the chosen threat-level. The floor of the vehicle is protected against blast and fragments of explosive threats such as the industry-standard two DM51 hand-grenades or two HG85 fragmentation grenades, with optional protection against land-mines such as the DM31.

Available in VIP, CIT and Personnel transport configurations.

ARMOURING DESIGN

- The armouring is integrated inside the vehicle's cab and forms a complete self-supporting structure so as to avoid excessive stress on the vehicle's original body.
- The interior armour-frame provides overlap for the large-surface armour components such as the door armour-plates and the windows.
- Hinge mounting points are reinforced both in the pillars and in the doors in a way that the armouring of the door is supported by the armouring of the pillar.
- Heavy-duty hinges with built-in door-stop.
- The Fuel-tank is protected with steel armour-plates.
- The battery and control module of the engine are protected to the same level as the opaque areas.



MATERIALS

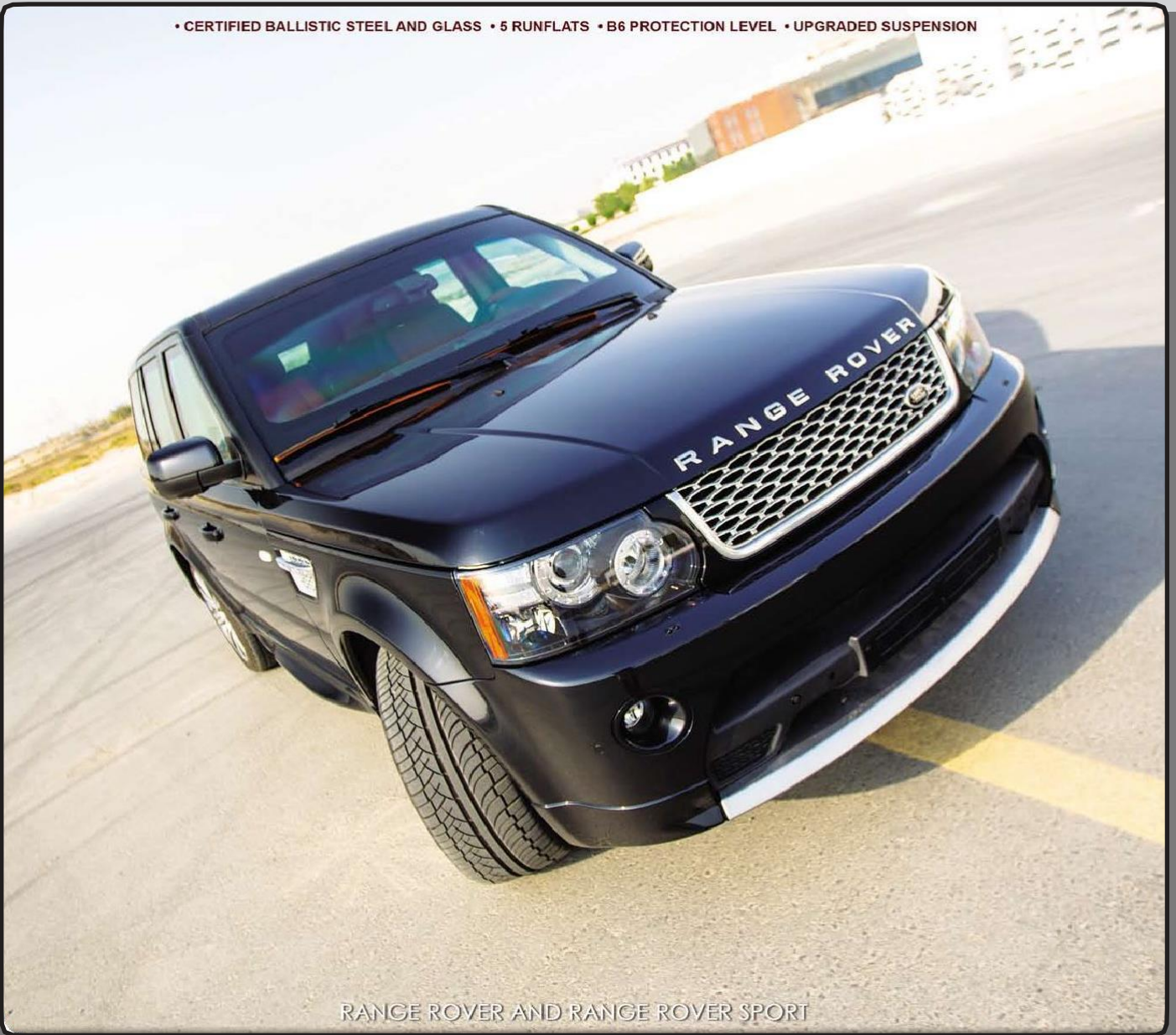
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Suspension and brake upgrade components specifically designed to cope with the higher weight of armoured vehicles are sourced from carefully selected suppliers.

The Samag unflats have also been tested in real life conditions along the finabel standard and were still fully functional after 100km.

ARMoured RANGE ROVER SPORT

• CERTIFIED BALLISTIC STEEL AND GLASS • 5 RUNFLATS • B6 PROTECTION LEVEL • UPGRADED SUSPENSION



RANGE ROVER AND RANGE ROVER SPORT

ARMoured RANGE ROVER SPORT



PROTECTION LEVELS

E offers the Range Rover in protection levels B4+ (7.62x39 FeC AK47), B6 (7.62x51 M80, 5.56x45 SS109 – NATO and US assault rifles), and B6+ (5.56x45 M193). All four sides of the passenger compartment and the roof of the vehicle are protected using high-quality armour steel and glass to defeat the chosen threat-level.

The floor of the vehicle is protected against blast and fragments of explosive threats such as the industry-standard two DM51 hand-grenades or two HG85 fragmentation grenades. Higher blast protection available up to land-mines such as the DM31.

ARMOURING DESIGN

- The armouring is integrated inside the vehicle's cab and forms a complete self-supporting structure so as to avoid excessive stress on the vehicle's original body.
- The interior armour-frame provides overlap for the large-surface armour components such as the door armour-plates and the windows.
- Hinge mounting points are reinforced both in the pillars and in the doors in a way that the armouring of the door is supported by the armouring of the pillar.
- Heavy-duty hinges with built-in door-stop.
- The Fuel-tank is protected with steel armour-plates.
- The battery and control module of the engine are protected to the same level as the opaque areas.



MATERIALS

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Suspension and brake upgrade components specifically designed to cope with the higher weight of armoured vehicles are sourced from carefully selected suppliers.

The Samag runflats have also been tested in real life conditions along the finabel standard and were still fully functional after 100km.





ARMoured TOYOTA FORTUNER



ARMoured TOYOTA FORTUNER



PROTECTION LEVELS

Armoured Toyota Fortuner is available in levels of protection B4+ (Kalashnikov AK47 7.62x39 FeC ammunition) and B6 (7.62x51 M80 and 5.56x45 SS109 ammunition). All four sides of the passenger compartment and the roof of the vehicle are protected using high-quality armour steel and glass to defeat the chosen threat-level. The floor of the vehicle is protected against blast and fragments of explosive threats such as the industry-standard two DM51 hand-grenades or two HG85 fragmentation grenades, with optional protection against land-mines such as the DM311.

Available in VIP, CIT and Personnel transport configurations.

ARMOURING DESIGN

- The armouring is integrated inside the vehicle's cab and forms a complete self-supporting structure so as to avoid excessive stress on the vehicle's original body.
- The interior armour-frame provides overlap for the large-surface armour components such as the door armour-plates and the windows.
- Hinge mounting points are reinforced both in the pillars and in the doors in a way that the armouring of the door is supported by the armouring of the pillar.
- Heavy-duty hinges with built-in door-stop.
- The Fuel-tanks are protected with steel armour-plates.
- The battery and control module of the engine are protected to the same level as the opaque areas.



MATERIALS

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Suspension and brake upgrade components specifically designed to cope with the higher weight of armoured vehicles are sourced from carefully selected suppliers.

The Samag unflats have also been tested in real life conditions along the finabel standard and were still fully functional after 100km.



ARMoured PEUGOT 508

• CERTIFIED BALLISTIC STEEL AND GLASS • 5 RUNFLATS • B4+ PROTECTION LEVEL • UPGRADED SUSPENSION



1.6L VTI PETROL AUTO

ARMoured PEUGOT 508



PROTECTION LEVELS

Eagle^S Armoured B4+ Peugeot 508 offers protection against small arms up to the Kalashnikov AK47 (7.62x39 FeC ammunition).

All four sides of the passenger compartment and the roof of the vehicle are protected using high-quality armour steel and glass. The floor of the vehicle is protected against blast and fragments of explosive threats such as the industry-standard two DM51 hand-grenades or two HG85 fragmentation grenades.

The vehicle retains its original appearance to blend in traffic without attracting attention.

ARMOURING DESIGN

- The armouring is integrated inside the vehicle's cab and forms a complete self-supporting structure so as to avoid excessive stress on the vehicle's original body.
- The interior armour-frame provides overlap for the large-surface armour components such as the door armour-plates and the windows.
- Hinge mounting points are reinforced both in the pillars and in the doors in a way that the armouring of the door is supported by the armouring of the pillar.
- Heavy-duty hinges with built-in door-stop.
- The Fuel-tank is protected with steel armour-plates.
- The battery and control module of the engine are protected to the same level as the opaque areas.

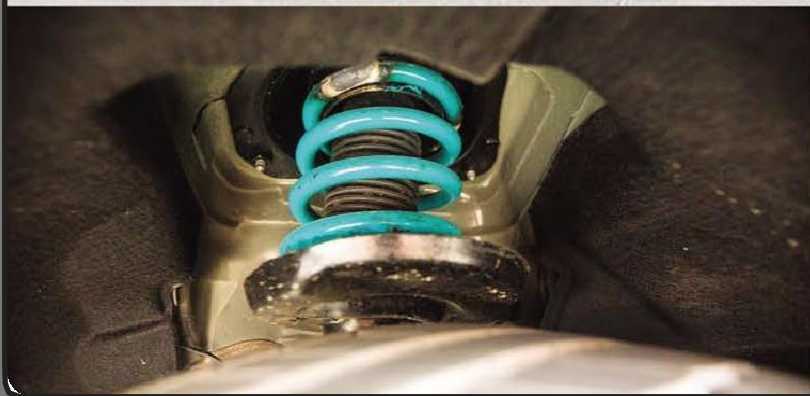


MATERIALS

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Suspension and brake upgrade components specifically designed to cope with the higher weight of armoured vehicles are sourced from carefully selected suppliers.

The **Samag** runflats have also been tested in real life conditions along the finabel standard and were still fully functional after 100km.



ARMoured TOYOTA LANDCRUISER 76

• CERTIFIED BALLISTIC STEEL AND GLASS • 5 RUNFLATS • B6 PROTECTION LEVEL • UPGRADED SUSPENSION



4.0L V6 PETROL, 4.2L I6 DIESEL (OPTIONAL TURBO-CHARGER), 4.5L V8 DIESEL (RHD ONLY)

ARMoured TOYOTA LANDCRUISER 76



PROTECTION LEVELS

offers the Land Cruiser 76-Series (LX-10) in protection levels B4+ (7.62x39 FeC AK47), B6 (7.62x51 M80, 5.56x45 SS109 – NATO and US assault rifles), and B6+ (5.56x45 M193). All four sides of the passenger compartment and the roof of the vehicle are protected using high-quality armour steel and glass to defeat the chosen threat-level.

The floor of the vehicle is protected against blast and fragments of explosive threats such as the industry-standard two DM51 hand-grenades or two HG85 fragmentation grenades. Higher blast protection available up to land-mines such as the DM31.

ARMOURING DESIGN

- The armouring is integrated inside the vehicle's cab and forms a complete self-supporting structure so as to avoid excessive stress on the vehicle's original body.
- The interior armour-frame provides overlap for the large-surface armour components such as the door armour-plates and the windows.
- Hinge mounting points are reinforced both in the pillars and in the doors in a way that the armouring of the door is supported by the armouring of the pillar.
- Heavy-duty hinges with built-in door-stop.
- The Fuel-tanks are protected with steel armour-plates.
- The battery and control module of the engine are protected to the same level as the opaque areas.



MATERIALS

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Suspension and brake upgrade components specifically designed to cope with the higher weight of armoured vehicles are sourced from carefully selected suppliers.

The Samag runflats have also been tested in real life conditions along the finabel standard and were still fully functional after 100km.



ARMOURED TOYOTA LANDCRUISER 78

• CERTIFIED BALLISTIC STEEL AND GLASS • 5 RUNFLATS • B6 PROTECTION LEVEL • UPGRADED SUSPENSION



4.0L V6 PETROL, 4.2L 6-CYL DIESEL (OPTIONAL TURBO-CHARGER), 4.5L V8 DIESEL (RHD ONLY)

ARMoured TOYOTA LANDCRUISER 78



PROTECTION LEVELS

offers the Land Cruiser Hardtop 78-Series (LX-13) in protection levels B4+ (7.62x39 FeC AK47), B6 (7.62x51 M80, 5.56x45 SS109 – NATO and US assault rifles), and B6+ (5.56x45 M193). All four sides of the passenger compartment and the roof of the vehicle are protected using high-quality armour steel and glass to defeat the chosen threat-level. The floor of the vehicle is protected against blast and fragments of explosive threats such as the industry-standard two DM51 hand-grenades or two HG85 fragmentation grenades. Higher blast protection available up to land-mines such as the DM31. Available in Personnel Transport (APC), Ambulance and Valuables Transport (CIT) configurations.

ARMOURING DESIGN

- The armouring is integrated inside the vehicle's cab and forms a complete self-supporting structure so as to avoid excessive stress on the vehicle's original body.
- The interior armour-frame provides overlap for the large-surface armour components such as the door armour-plates and the windows.
- Hinge mounting points are reinforced both in the pillars and in the doors in a way that the armouring of the door is supported by the armouring of the pillar.
- Heavy-duty hinges with built-in door-stop.
- The Fuel-tanks are protected with steel armour-plates.
- The battery and control module of the engine are protected to the same level as the opaque areas.



MATERIALS

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Suspension and brake upgrade components specifically designed to cope with the higher weight of armoured vehicles are sourced from carefully selected suppliers.

The Samagrunflats have also been tested in real life conditions along the finabel standard and were still fully functional after 100km.

ARMOURED TOYOTA HILUX

• CERTIFIED BALLISTIC STEEL AND GLASS • 5 RUNFLATS • B6 PROTECTION LEVEL • UPGRADED SUSPENSION



2.7L PETROL, 2.5L AND 3.0L DIESEL ENGINES. MANUAL AND AUTOMATIC GEARBOXES AVAILABLE

ARMoured TOYOTA TOYOTA HILUX



PROTECTION LEVELS

Armoured Toyota Hilux is available in levels of protection B4+ (Kalashnikov AK47 7.62x39 FeC ammunition) and B6 (7.62x51 M80 and 5.56x45 SS109 ammunition). All four sides of the passenger compartment and the roof of the vehicle are protected using high-quality armour steel and glass to defeat the chosen threat-level.

The floor of the vehicle is protected against blast and fragments of explosive threats such as the industry-standard two DM51 hand-grenades or two HG85 fragmentation grenades, with optional protection against land-mines such as the DM31. The vehicle retains its original appearance and can be used to move personnel and materials without attracting attention.

ARMOURING DESIGN

- The armouring is integrated inside the vehicle's cab and forms a complete self-supporting structure so as to avoid excessive stress on the vehicle's original body.
- The interior armour-frame provides overlap for the large-surface armour components such as the door armour-plates and the windows.
- Hinge mounting points are reinforced both in the pillars and in the doors in a way that the armouring of the door is supported by the armouring of the pillar.
- Heavy-duty hinges with built-in door-stop.
- The Fuel-tanks are protected with steel armour-plates.
- The battery and control module of the engine are protected to the same level as the opaque areas.



MATERIALS

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ARMoured TOYOTA HILUX TROOP CARRIER

• CERTIFIED BALLISTIC STEEL AND GLASS • B6 PROTECTION LEVEL • SEATS UP TO 5 + 6 • ALSO AS PRISONER TRANSPORT



2.7L PETROL, 2.5L AND 3.0L DIESEL ENGINES. MANUAL AND AUTOMATIC GEARBOXES AVAILABLE

ARMoured TOYOTA HILUX TROOP CARRIER



PROTECTION LEVELS

Armoured Toyota Hilux APC is available in levels of protection B4+ (Kalashnikov AK47 7.62x39 FeC ammunition) and B6 (7.62x51 M80 and 5.56x45 SS109 ammunition). All four sides of the passenger compartments and the roof of the vehicle are protected using high-quality armour steel and glass to defeat the chosen threat-level. The floor of the vehicle is protected against blast and fragments of explosive threats such as the industry-standard two DM51 hand-grenades or two HG85 fragmentation grenades, with optional protection against land-mines such as the DM31.

Armoured Personnel Carrier, seats up to 1+10 (1+4 in front compartment, up to 6 in crew compartment). Customized configurations available on request.

ARMOURING DESIGN

- The armouring is integrated inside the vehicle's cab and forms a complete self-supporting structure so as to avoid excessive stress on the vehicle's original body.
- The interior armour-frame provides overlap for the large-surface armour components such as the door armour-plates and the windows.
- Hinge mounting points are reinforced both in the pillars and in the doors in a way that the armouring of the door is supported by the armouring of the pillar.
- Heavy-duty hinges with built-in door-stop.
- The Fuel-tanks are protected with steel armour-plates.
- The battery and control module of the engine are protected to the same level as the opaque areas.



MATERIALS

All armouring materials used by Samag are ballistically certified by independent laboratories. Glass and steel are tested and certified according to European and international standards. Each batch of steel is tested as part of the normal quality control process of our suppliers, and random samples of the sheets delivered to Samag are once more submitted for testing by the Beschussamt Munich in Germany.

Suspension and brake upgrade components specifically designed to cope with the higher weight of armoured vehicles are sourced from carefully selected suppliers.

The Samag runflats have also been tested in real life conditions along the finabel standard and were still fully functional after 100km.

ARMoured TOYOTA HILUX MOBILE SAFE-BOXES

• AVAILABLE IN VARIOUS SIZES • SAFE-BOX WITH CODED LOCK • 5 RUNFLATS • PASSENGER COMPARTMENT CAN BE ARMoured



2.7L PETROL, 2.5L AND 3.0L DIESEL ENGINES. MANUAL AND AUTOMATIC GEARBOXES AVAILABLE

ARMoured TOYOTA HILUX MOBILE SAFE-BOXES



PROTECTION LEVELS

Armoured Toyota Hilux CIT is available in levels of protection B4+ (Kalashnikov AK47 7.62x39 FeC ammunition) and B6 (7.62x51 M80 and 5.56x45 SS109 ammunition). All four sides of the passenger compartment and the roof of the vehicle are protected using high-quality armour steel and glass to defeat the chosen threat-level. The floor is protected against blast and fragments of explosive threats such as the industry-standard two DM51 hand-grenades or two HC85 fragmentation grenades, with optional protection against land-mines such as the DM31. The vault is protected against effraction with various door and lock-configurations available.

Cash and valuables transport, seats up to 5. Payload up to 500kg. Customized configuration available on request.

ARMOURING DESIGN

- The armouring is integrated inside the vehicle's cab and forms a complete self-supporting structure so as to avoid excessive stress on the vehicle's original body.
- The interior armour-frame provides overlap for the large-surface armour components such as the door armour-plates and the windows.
- Hinge mounting points are reinforced both in the pillars and in the doors in a way that the armouring of the door is supported by the armouring of the pillar.
- Heavy-duty hinges with built-in door-stop.
- The Fuel-tanks are protected with steel armour-plates.
- The battery and control module of the engine are protected to the same level as the opaque areas.
- Various vault configurations available.



MATERIALS

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Suspension and brake upgrade components specifically designed to cope with the higher weight of armoured vehicles are sourced from carefully selected suppliers.

The Samag runflats have also been tested in real life conditions along the finabel standard and were still fully functional after 100km.



ARMOURED MAHINDRA BOLERO

• CERTIFIED BALLISTICS STEEL AND GLASS • 5 RUN-FLATS • SEPARATE GUARDS COMPARTMENT • B4+ PROTECTION LEVEL



CASH AND VALUABLES TRANSPORT

ARMoured MAHINDRA BOLERO



PROTECTION LEVEL

All four sides of the passenger compartment and the roof of the vehicle are protected using high-quality armour steel and glass to defeat the chosen threat-level. The Bolero can be armoured up to protection level B4+ (AK47 standard ammunition, VPAM APR2006 level 6).

The floor of the vehicle is protected against blast and fragments of explosive threats such as the industry-standard two DM51 hand-grenades or two HG85 fragmentation grenades.

ARMOURING DESIGN

- The armouring is integrated inside the vehicle's front cab and forms a complete self-supporting structure so as to avoid excessive stress on the vehicle's original body.
- The interior armour-frame provides overlap for the large-surface armour components such as the door armour-plates and the windows.
- Heavy-duty hinges with built-in door-stop.
- The Guard's compartment and vault area are built using high hardness ballistic steel for all sides and the roof.
- The Guard's compartment is separated from the vault area by a steel partition and is accessed by a side-door. Windows and gun-ports are provided on both sides and into the vault.
- The vault is accessed by a rear swing-out door, fitted with an electronically-controlled safety lock.



MATERIALS

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Beyond this strict quality control process, Samag regularly submits raw materials and assembly samples for ballistic testing by Beschussamt Munich to assess the limits of the materials and the efficiency of proposed assembly solutions. Welds, bolted assemblies, overlap solutions etc. are tested in this way prior to being used in production.

ARMOURED H1 CASH - IN - TRANSIT

• CERTIFIED BALLISTIC STEEL AND GLASS • 5 RUNFLATS • B4+ PROTECTION LEVEL • UPGRADED SUSPENSION



2.5L PETROL AUTOMATIC

ARMOURED H1 CASH - IN - TRANSIT



PROTECTION LEVEL

All four sides of the passenger compartment and the roof of the vehicle are protected using high-quality armour steel and glass to defeat the chosen threat-level. The **Samag**H1 is available in protection levels up to B4+ (AK47 standard ammunition, VPAM APR2006 level 6).

The floor of the vehicle is protected against blast and fragments of explosive threats such as the industry-standard two DM51 hand-grenades or two HG85 fragmentation grenades.

ARMOURING DESIGN

- The armouring is integrated inside the vehicle's shell and forms a complete self-supporting structure so as to avoid excessive stress on the vehicle's original body.
- The interior armour-frame provides overlap for the large-surface armour components such as the door armour-plates and the windows.
- Hinge mounting points are reinforced both in the pillars and in the doors where applicable in a way that the armouring of the door is supported by the armouring of the pillar.
- Heavy-duty hinges with built-in door-stop.
- The Guard's compartment is separated from the vault area by a ballistic steel partition and is accessed by a side-door. Windows and gun-ports are looking onto the access door and into the vault.
- The vault is accessed by a rear swing-out door and/or a side door.
- Fuel-tank and battery protected with steel armour-plates.



MATERIALS

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ARMoured DISCREET MOBILE SAFE-BOXES

• AVAILABLE FOR VARIOUS SUVs • SAFE-BOX WITH CODED LOCK • PASSENGER COMPARTMENT CAN BE ARMoured



JEWELLERY AND VALUABLES TRANSPORT

ARMoured DISCREET MOBILE SAFE-BOXES



PROTECTION LEVELS

Discreet bolt-on safe-boxes for the transport of cash, jewellery and other valuables. Fit in the cargo compartment of the SUV and can be hidden from view using dark tinted windows. Heavy-gauge steel construction and coded safety-lock as standard. Electronic safety-lock available as an option. Available in short or long versions, preserving the first two seat-rows or maximising safe-box capacity.

FEATURES

GPS-tracking devices, monitoring equipment with video-recording, communications equipment, concealed strobe-lights, siren and P-A systems etc available as options.



ARMOURING

Vault may be fitted on heavy-duty rails to slide back for ease of access.

Passenger compartment can be armoured to levels B4, B6 or B7.

Please call us with your specific requirements.



ARMOURED TOYOTA COASTER

• CERTIFIED BALLISTIC STEEL AND GLASS • 7 RUNFLATS • UPGRADED SUSPENSION



SMALL, MEDIUM, AND FULL-SIZE BUSES AVAILABLE

ARMoured TOYOTA COASTER



Eagles

PROTECTION LEVELS

All four sides of the passenger compartment and the roof of the vehicle are protected using high-quality armour steel and glass to defeat the chosen threat-level. The Coaster is available in protection levels B4+ (AK47 standard ammunition, VPAM APR2006 level 6) and B6 (Assault rifles with ball ammunition, CEN1522 and 1063 level 6 – VPAM APR2006 levels 7).

The floor of the vehicle is protected against blast and fragments of explosive threats such as the industry-standard two DM51 hand-grenades or two HG85 fragmentation grenades, with higher protection available up to land-mines such as the DM31.

ARMOURING DESIGN

- The armouring is integrated inside the vehicle's cab and forms a complete self-supporting structure so as to avoid excessive stress on the vehicle's original body.
- The interior armour-frame provides overlap for the large-surface armour components such as the door armour-plates and the windows.
- Hinge mounting points are reinforced both in the pillars and in the doors in a way that the armouring of the door is supported by the armouring of the pillar.
- Heavy-duty hinges with built-in door-stop.
- The Fuel-tanks are protected with steel armour-plates.
- The battery and control module of the engine are protected to the same level as the opaque areas.



MATERIALS

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Suspension and brake upgrade components specifically designed to cope with the higher weight of armoured vehicles are sourced from carefully selected suppliers.

The Samag runflats have also been tested in real life conditions along the finabel standard and were still fully functional after 100km.



ARMOURED HIGH OCCUPANCY VEHICLES

• CERTIFIED BALLISTICS STEEL AND GLASS • RUN-FLATS • B4+ OR B6 PROTECTION LEVEL • UP TO 50 SEATS CAPACITY



SMALL, MEDIUM, AND FULL-SIZE BUSES AVAILABLE

ARMoured HIGH OCCUPANCY VEHICLES



PROTECTION LEVELS

All four sides of the passenger compartment and the roof of the vehicle are protected using high-quality armour steel and glass to defeat the chosen threat-level. The Samag Falcon is available in protection levels B4+ (AK47 standard ammunition, VPAM APR2006 level 6) and B6 (Assault rifles with ball ammunition, CEN1522 and 1063 level 6 – VPAM APR2006 levels 7).

The floor of the vehicle is protected against blast and fragments of explosive threats such as the industry-standard two DM51 hand-grenades or two HG85 fragmentation grenades, with higher protection available up to land-mines such as the DM31.

ARMOURING DESIGN

- The armouring is integrated inside the vehicle's cab and forms a complete self-supporting structure so as to avoid excessive stress on the vehicle's original body.
- The interior armour-frame provides overlap for the large-surface armour components such as the door armour-plates and the windows.
- Hinge mounting points are reinforced both in the pillars and in the doors in a way that the armouring of the door is supported by the armouring of the pillar.
- Heavy-duty hinges with built-in door-stop.
- The Fuel-tanks are protected with steel armour-plates.
- The battery and control module of the engine are protected to the same level as the opaque areas.



MATERIALS

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ARMOURED HEAVY MACHINERY

• ARTICULATED HAULERS • FRONT LOADERS • BULLDOZERS • STANAG 4569 LEVEL 2



EARTH MOVING EQUIPMENT

ARMOURED HEAVY MACHINERY



SPECIAL PROJECTS

With a dedicated team for special projects and prototyping, Minerva Special Purpose Vehicles are able to meet customers' requirements for non-standard products.

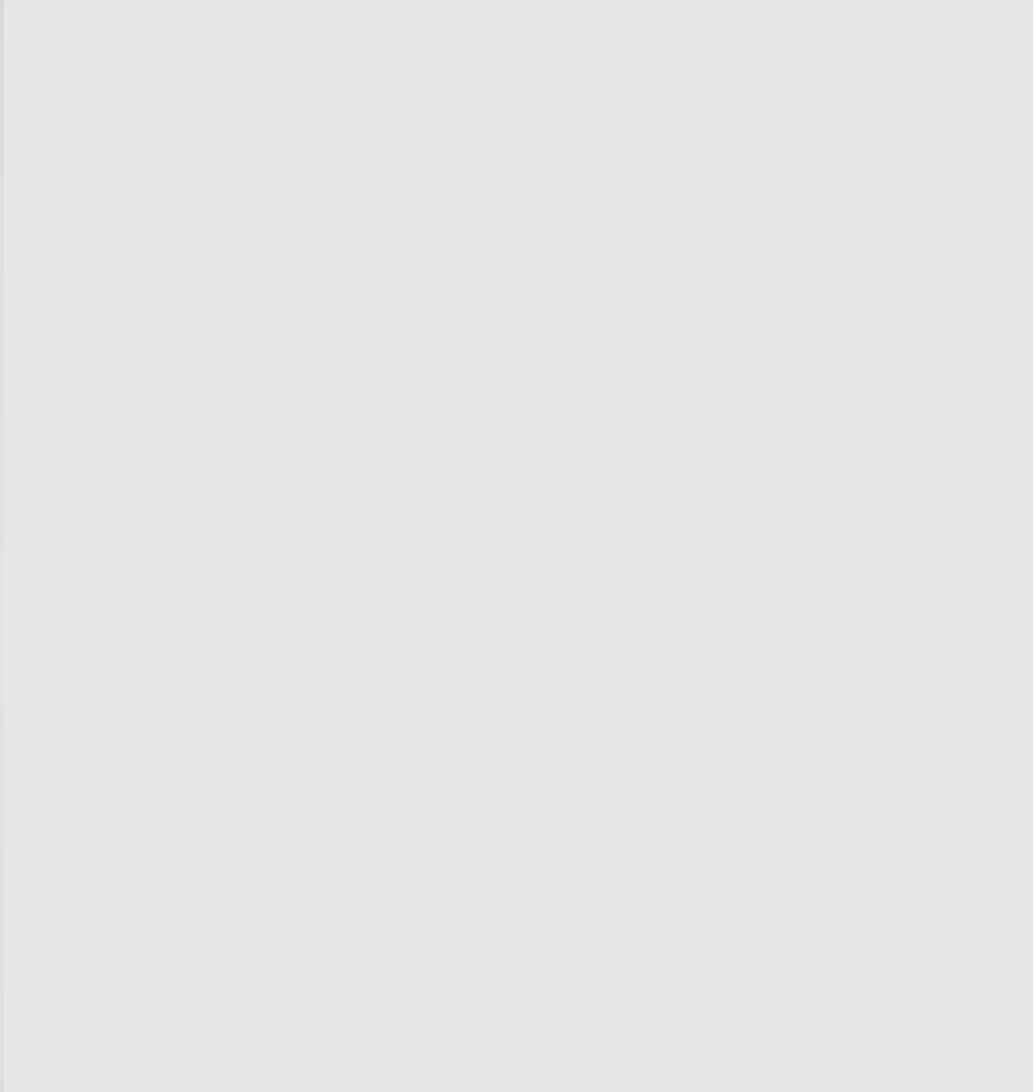
Heavy machinery for de-mining purposes, armoured buses and trucks, armoured personnel carriers, Samag has the required capacity and experience to find solutions to all its customers' needs.



Recent projects include a batch of various earth-moving machines armoured to defeat the STANAG 4569 level 2 threats, 50-seater buses armoured to level B6, and light armoured personnel carriers for rapid intervention.



MILITARY RANGE OF VEHICLES



MILITARY RANGE OF VEHICLES





ARMOURED TACTICAL VEHICLES



TACTICAL VEHICLES

INTRODUCING THE PANTHERA RANGE

Panthera T-6

The Panthera T-6 is based on the Toyota 79-series 4 x 4 chassis. The T-6 is designed for use in urban and cross-country patrol, border security and personnel movement situations (APC) for driver and commander plus up to 6 crew with ample room for mission equipment. The T-6 comes in various body configurations and provides protection against assault rifles to levels CEN1063/1522 BR6/FB6 or BR7/FB7 and against the explosion of 2 x DM51 hand-grenades under the floor.

Panthera T-6L

The Panthera T-6L (Light) is based on the Toyota Hi-Lux Pick-up and is designed for urban and highway patrol, and personnel movement. The OEM platform provides reliability and complete flexibility for the supply of parts and service globally for the end user. The Panthera T-6L provides protection against the Kalashnikov AK47 and against the explosion of 2 x DM51 hand-grenades under the floor.

Optional Mission Systems

The Panthera range is available with Integrated C4ISR/C4ISTAR Management System and can be fitted with a choice of Manual or Remote-control Weapon Stations (RWS). A menu of mission systems including but not limited to Advanced Targeting Technology (ATT), Tactical Radio & Networks with on-board and dismount handheld secure communications equipment, situational awareness day, low-light and thermal imaging cameras, grenade launchers, Vehicle Health Management, ECM equipment and other systems can be provided upon request.

Panthera S-8

The Panthera S-8 is based on a purpose-built 4x4 chassis and configured for infantry/police transport (APC) movement on all terrain. The S-8 provides best-in-class ground clearance and tractability for rugged off road performance and fording. Standard seating configurations is 2 + 8 crew. Blast protection seats and mission equipment are optional. The S-8 provides protection against assault rifles to levels CEN1063/1522 BR6/FB6 as well as mine protection against 2 x DM 31.

Panthera S-10

The Panthera S-10 is based on a rugged platform designed for purpose, as a versatile front-line high protection-level vehicle for reconnaissance, targeted patrol and tactical command unit which can operate over all terrain. S-10 is fitted with flexible seating and mission-systems configurations. Central tire inflation system (CTIS) is standard and blast protective seating equipment is available. The S-10 is available in protection levels ranging from CEN1063/1522 BR6/FB6 up to STANAG 4569 level 3.

Panthera K-14 & K-10Cmd

The Panthera K-14 & K-10CMD Mine Protected Vehicle is based on a KrAZ platform providing unrivalled strength and payload for armour and crew. Available in various configurations with driver and commander plus 14 crew or 10 crew and Mobile Command Unit (MCU) with work- and mission equipment station or 10 crew and gunner (with optional manned or remote-controlled weapon-station). The K-14 & K-10CMD are available with a choice of engines and transmissions. Central tire inflation system (CTIS) is standard and blast protective seating equipment is available. The K-14 offers protection levels up to STANAG 4569 level 3.

Panthera K-24

The Panthera K-24 is a 6x6 version of the K-14 for increased crew capacity and payload.



ARMOURED TACTICAL VEHICLES



PANTHERA T-6

- CERTIFIED BALLISTIC STEEL AND GLASS • STANAG 4569 - 1/B6 BALLISTIC LEVEL • 5 RUNFLATS
- FRAGMENTATION GRENADES AND LAND-MINES PROTECTION



LIGHT ARMOURÉD PERSONNEL CARRIER

PANTHERA T-6



SPECIFICATIONS

Engine	4.0L V6 Petrol (4.2L Diesel Option Available)
Transmission	4x4 5-Speed Manual
Seats	2+6 (Other Seating Arrangements Available)
Colour	Customer's Choice
Body Type	Light-Armoured Personnel Carrier
Protection Level	CEN1063 and 1522 BR6/FB6

INTERIOR FEATURES

- Dual Air-Conditioner
- Modular seating arrangement with choice of bench-seats, flip-up seats, slung seats or blast-mitigating seats for the crew compartment
- Emergency stretcher and first-aid kit
- Choice of communications, surveillance/monitoring, electronic counter-measure equipment and other mission systems
- Driver/Commander and Crew areas can be tailored to specific requirements
- Option of C4ISR equipment integration



EXTERIOR FEATURES

- 16x8 steel rims (option: split-rims) with run-flats
- Tow-bars, jerry-can holder, tool-boxes, shovels, sand-ladders, etc.
- Remote-controlled roof-mounted search light
- Rear-view camera
- Options of Roof-mounted manual or remote-control weapon-station, side and rear gunports, roof hatches and other mission systems
- Optional situation-awareness equipment integration
- Contact us with your specific requirements

PANTHERA S-8

- CERTIFIED BALLISTIC STEEL AND GLASS • STANAG 4569 - 1/B6 BALLISTIC LEVEL • 5 RUNFLATS
- FRAGMENTATION GRENADES AND LAND-MINES PROTECTION



LIGHT ARMoured PERSONNEL CARRIER

PANTHERA S-8



SPECIFICATIONS

Engine	Cummins ISF 2.8L Turbo Diesel Intercooler Optional Iveco or Steyr Engines
Transmission	4x4 6-Speed Manual
Seats	2+8 (Other Seating Arrangements Available)
Colour	Customer's Choice
Body Type	Light-Armoured Personnel Carrier
Protection Level	CEN1063 and 1522 BR6/FB6 NIJ Level III - APR2006 Level 7 Floor defeats fragmentation grenades and land-mines

PERFORMANCE

- Maximum Speed: 90km/h
- Turning Radius: 6.7m
- Angle of Attack/Departure: 43/40 degrees
- Fording: 660mm
- Ground Clearance: 280mm
- Payload: 1,000kg



INTERIOR FEATURES

- Dual Air-Conditioner
- Modular seating arrangement with choice of bench-seats, flip-up seats, slung seats or blast-mitigating seats for the crew compartment
- Emergency stretcher and first-aid kit
- Choice of communications, surveillance/monitoring, electronic counter-measure equipment
- Driver/Commander and Crew areas can be tailored to specific requirements
- Contact us with your specific requirements

PANTHERA S-10

• CERTIFIED BALLISTIC STEEL AND GLASS • RUNFLATS • UP TO STANAG 4569-3 PROTECTION LEVEL • LAND-MINES PROTECTION



ARMOURED PERSONNEL CARRIER

PANTHERA S-10



SPECIFICATIONS

Engine	Cummins ISF 3.8L Turbo Diesel Optional Cummins ISBe 4.5L or 6.7L Turbo Diesel
Transmission	4x4 6-Speed Automatic Allison S1000 or S3000
Seats	2+10 (Other Seating Arrangement Available)
Colour	Customer's Choice
Body Type	Armoured Personnel Carrier
Protection Level	Up to STANAG 4569-3

PERFORMANCE

- Maximum Speed: 100km/h
- Turning Radius: 8m
- Angle of Attack/Departure: 48/40 degrees
- Ground Clearance: 321mm
- Payload: Up to 2,000kg



MAIN FEATURES

- Dual Air-Conditioner
- Modular seating arrangement with choice of bench-seats, flip-up seats or blast-mitigating seats for the crew compartment
- Choice of communications, surveillance/monitoring, electronic counter-measure equipment and other mission systems
- Options of Roof-mounted manual or remote-control weapon-station, side and rear gun-ports, roof hatches and other mission systems
- Central tyre-inflation system
- Contact us with your specific requirements.



PANTHERA K-10Cam

• CERTIFIED BALLISTIC STEEL AND GLASS • RUNFLATS • UP TO STANAG 4569-3 PROTECTION LEVEL • LAND-MINES PROTECTION



ARMoured PERSONNEL CARRIER

PANTHERA K-10Cam



SPECIFICATIONS

Engine	YAMZ-238DE2 V8 Turbo Diesel Optional Cummins 6.7L or 8.8L Turbo Diesel
Transmission	4x4 8-Speed 2-Range Manual Optional Allison Automatic
Seats	2+10 (Other Seating Arrangements Available)
Colour	Customer's Choice
Body Type	Armoured Personnel Carrier
Protection Level	Up to STANAG 4569-3

PERFORMANCE

- Maximum Speed: 90km/h
- Maximum Gradient: 60%
- Turning Radius: 12m
- Angle of Attack/Departure: 50/44 degrees
- Fording: 1.5m
- Ground Clearance: 370mm
- Payload: 2,500kg at STANAG 4569-2 protection



INTERIOR FEATURES

- Hydraulic rear access ramp for the crew, side access door for the command and control post and emergency exit
- Modular seating arrangement with choice of bench-seats, flip-up seats or blast-mitigating seats for the crew compartment
- Dedicated command-and-control area, with option of C4ISR/C4ISTAR equipment integration
- Options of Roof-mounted manual or remote-control weapon-station, side and rear gunports, roof hatches and other mission systems
- Options of situation-awareness equipment integration
- Contact us with your specific requirements.



PANTHERA K-24



PANTHERA K-24



SPECIFICATIONS

Engine	YAMZ-238DE2 V8 Turbo Diesel Optional Cummins 6.7L or 8.8L Turbo Diesel
Transmission	6X6 8-Speed 2-Range Manual Optional Allison Automatic
Seats	2+24 (Other Seating Arrangements Available)
Colour	Customer's Choice
Body Type	Armoured Personnel Carrier
Protection Level	Up to STANAG 4569-3

PERFORMANCE

- Maximum Speed: 80km/h
- Maximum Gradient: 60%
- Turning Radius: 13.5m
- Angle of Attack/Departure: 50/44 degrees
- Fording: 1.2m
- Ground Clearance: 370mm
- Payload: 8 - 12 T at STANAG 4569-1 protection
Depending on Tires



INTERIOR FEATURES

- Dual Air-Conditioner
- Modular seating arrangement with choice of bench-seats, flip-up seats, slung seats or blast-mitigating seats for the crew compartment
- Emergency stretcher and first-aid kit
- Choice of communications, surveillance/monitoring, electronic counter-measure equipment
- Driver/Commander and Crew areas can be tailored to specific requirements
- Contact us with your specific requirements.



ARMOURED SECURITY CABINS

• CERTIFIED BALLISTIC STEEL AND GLASS • VARIOUS SIZES • TRANSPORTABLE • B6 PROTECTION LEVEL



CHECK-POINT, GUARD AND SENTRY BOXES

ARMoured SECURITY CABINS

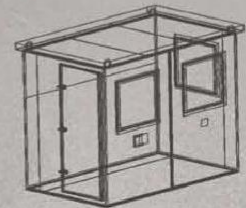
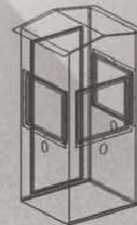


CHECK-POINT, GUARD AND SENTRY BOXES

Security Guard Cabins are designed to procure protection and comfort where guards' presence is required in high threat areas. Available in dimensions to suit all purposes, they can be fitted with generator, air-conditioning, video-monitoring systems, communication systems etc. Intercom Systems and Safe-Trays for collecting and handing over documents can also be specified. Let us know your requirements and we will design and fabricate a tailor-made Security Cabin.

Available in various levels of protection including B4+, B6 and B7.

- Available as fully-welded permanent assemblies or mechanically assembled to allow for disassembly for ease of relocation (depending on model and protection level).
- All doors and windows overlapped with the main cabin structure.
- All weld-joints or assembly lines overlapped.
- Single- and multiple-room designs available.





INTERNATIONAL BALLISTICS STANDARDS



INTERNATIONAL BALLISTICS STANDARDS

WEAPON TYPE	CALIBRE	AMMUNITION	RANGE	BRV2009 (VPAM-APR2004)	GOST R 50963-96	STANAG 4569	CEN 1063/1522
RIFLE (KALASHNIKOV AK47, AKM)	7.62X39	PS COLD HARDENED	10M	6			
RIFLE (G3, FAL, ETC.)	7.62X51	NATO BALL M80 (FJ/PB/SC)	10M	7			BR6/FB6
RIFLE (M16)	5.56X45	NATO SS109 (FJ(2)/PB/SCP1)	10M				
RIFLE (G3, FAL, ETC.)	7.62X51	NATO BALL M80 (FJ/PB/SC)	30M			LEVEL I	
RIFLE (M16)	5.56X45	NATO SS109 (FJ(2)/PB/SCP1)	30M				
RIFLE (M16)	5.56X45	M193 AP	30M				
RIFLE (KALASHNIKOV AK47, AKM)	7.62X39	API BZ	30M			LEVEL II	
RIFLE (KALASHNIKOV AK47, AKM)	7.62X39	API BZ	10M	8			
RIFLE (KALASHNIKOV AK47, AKM)	7.62X39	57-B3-231	5-10M		5A		
RIFLE (G3, FAL, ETC.)	7.62X51	FJ(2)/PB/HC1	10M	9			BR7/FB7
RIFLE (SVD)	7.62X54	7N13 CARTRIDGE W. ST-M2 CORE	5-10M		6		
RIFLE (SVD)	7.62X54	7-B3-3 CARTRIDGE W. B-32 CORE	5-10M		6A		
RIFLE (SVD)	7.62X54	B32 API	30M			LEVEL III	
RIFLE (SVD)	7.62X54	B32 API	10M	10			
RIFLE (G3, FAL, ETC.)	7.62X51	AP (WC CORE)	30M			LEVEL III	

MSPV B6/ASV VR7

MSPV B7

Protection Levels – Associated Blast Threats

STANAG 4569:

- Level I Hand-Grenades, AP mines etc. under the vehicle
- Level II 6kg Blast AT mine
- level III 8kg Blast AT mine

CEN 1063/1522:

- Level FB6/BR6 No specific requirements - industry-standard: 2 DM51 Hand-Grenades
- Level FB7/BR7 No specific requirements - industry-standard: 2 DM51 Hand-Grenades

VPAM BRV2009:

- Blast requirements not finalised. ASV VR7 Land Cruiser successfully tested against:
- 2xHG85 fragmentation grenades on the roof
 - 2xHG85 fragmentation grenades under the floor
 - 2xDM31 AP land-mine under the floor
 - 12.5kg PETN at 4m on the side





We Develop Ballistic Solutions In Close Cooperation With Our Partners. Our Mission Is To Generate Tailored Materials, Combinations And Designs To Satisfy Our Specific Customer Demands. Based On Our Long-Term Experience We Provide Optimized Tailored Solutions To Our Customers.
