



Think individual

“I would like an armoured vehicle with a fridge and Mini-bar”

IndiKar undertakes a detailed design and development phase to address all specification requirements, this ensures all product features are covered and overall product integrity is not compromised.

“Who is IndiKar?”

IndiKar – Individual Karosseriebau (Coachwork Builder) GmbH, a subsidiary of the Farmington Group, employs over 100 highly qualified automotive engineers and technicians, specialising in the design and manufacture of specialist and armoured vehicles for the automotive industry.





engineering

materials development

measuring and digitising service

vehicle armoured

vehicle assembly

low volume production

bespoke systems

special vehicle construction

prototyping

concept manufacture

“What is IndiKar able to do for us?”

“We apply volume automotive industry production processes, to low volume production lines, whereby prototype manufacture is linked with the requirements of OEM mass-production processes.

The advantage for our customers lies in the fact that high quality, low volume products can be produced as efficiently as high volume products.”

Ronald Gerschewski, Managing Director, IndiKar GmbH



The highly experienced staff, at IndiKar, are capable of producing whole vehicle solutions or production line installation kits, to the highest quality standards ensuring consistency, repeatability and the highest level of engineering and protection integrity.





“What design and development facilities does IndiKar have ?”

IndiKar has a team of Design engineers working on 16 CATIA V4/V5 work stations creating production ready solutions. These work stations are, equipped with industry standard interfaces for the transmission of data to the customer. Design validation is assisted via the use of state of the art 3D Laser Scanner, which increases efficiency and radically optimizes final design engineering processes.

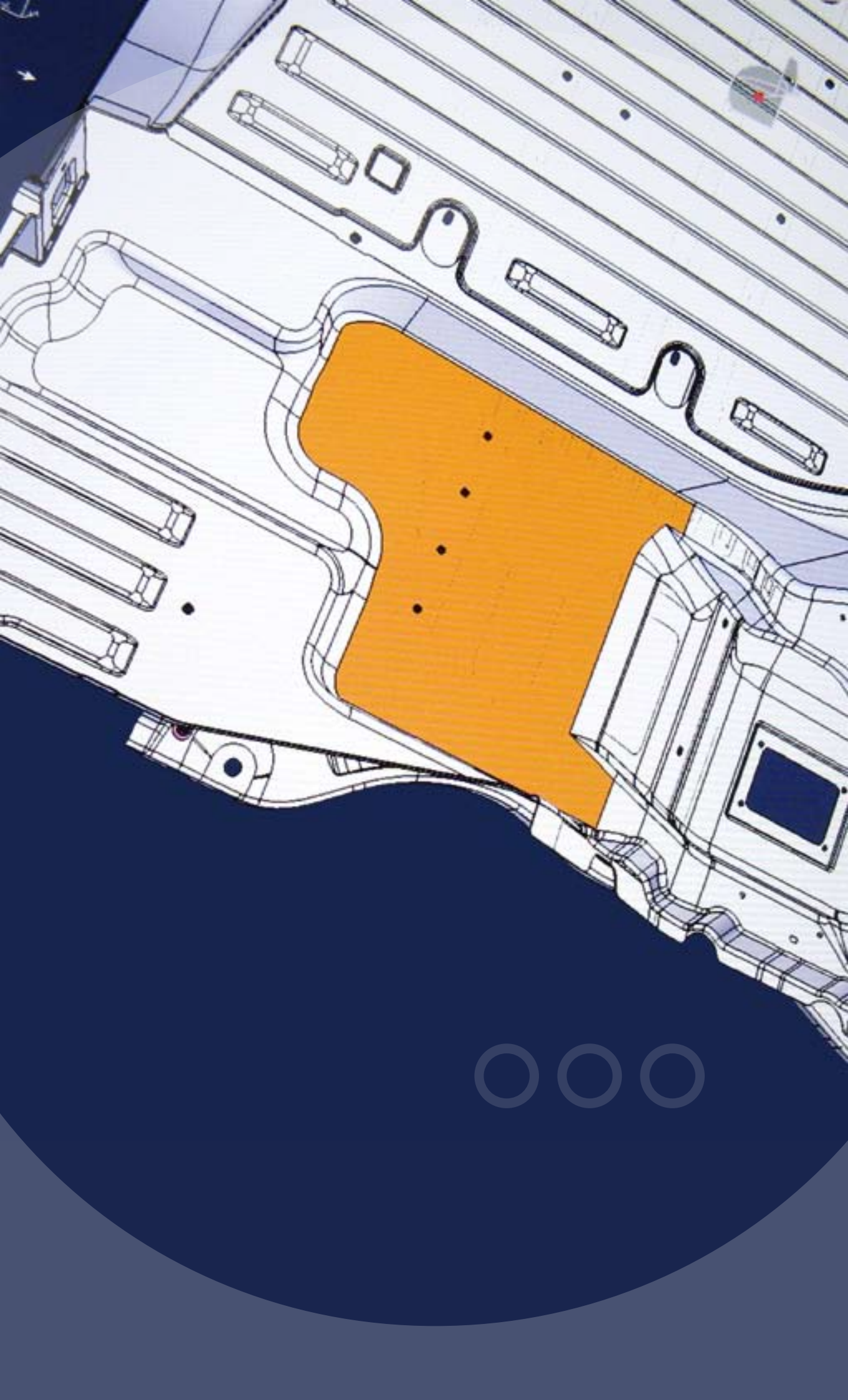
“What scope of design and development is covered by IndiKar?”

IndiKar is capable of designing and developing solutions of the highest integrity in the areas of automotive lightweight construction and pressed parts.

Design and Development Scope

- Steel and composite armouring
- Light armouring
- Car body work (sheet metal, aluminium)
- Transparent armouring
- Trim
- Sealing
- Window regulator mechanisms
- Bespoke requirements





“Does IndiKar have specialists to develop new trim solutions on behalf of our in house engineers and designers”?

Yes, we do. IndiKar specialises in the delivery of unique solutions to problems set by our clients, from the development of new parts and systems, using specialist materials, to the integration of the solution in to the vehicle and the clients manufacturing process.

At the same time, the highest quality standards are observed in all process phases. IndiKar is able to work extremely effectively due to its highly specialised and diversified workforce.

Specialist technicians working in the prototype workshop have a great deal of experience in the field of interior and exterior vehicle systems, working with steel, plastic and ceramic and applying them to different manufacturing processes. Whether it’s a single item or a small production run – IndiKar develops solutions to suit all requirements.





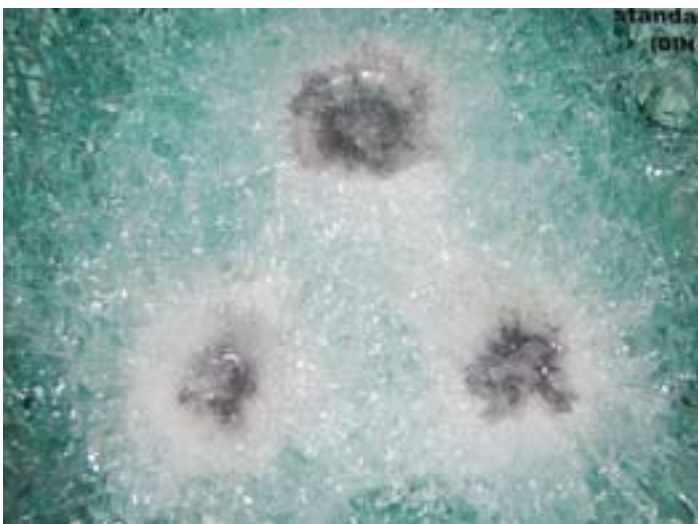
“What protection levels can IndiKar achieve?”

Armoured Vehicle protection levels VR 3 to VR 7 for civilian applications and Stanag 1 or Stanag 2 for Military specifications, in line with NATO military standards. From the middle of 2008 testing of materials will be carried out on site in our own ballistic firing range.



“Can IndiKar undertake engineering analysis to identify the optimum materials and processes required to meet our specifications?”

IndiKar has in house specialists, in the design and development of its own armoured steel, as well as in the area of hot and cold-forming. Additionally IndiKar has experience in the development and processing of composites, glass and fibre-reinforced composites and can make proposals to provide the most suitable material and process mix to deliver the most effective solution balancing weight cost and vehicle dynamics.





R3



“What facilities does IndiKar have?”

Hydraulic Press	Forming Pressure 1600 kN	WEMA
Hydraulic Press	Forming Pressure 3400 kN	Hylatechnik
3D – Laser cutting-edge facility	TRUMATIC TCL 5005 TLF 3000 TURBO	TRUMPF
Open-side (single-column) measuring machine	Table size: 3000 x 2000	STIEFELMAYER
Double-column measuring machine	Table size: 6000 x 4000	STIEFELMAYER
Mobile platinum measuring arm 3 D Laserscanner	Seven-axle	FARO

“Can the parts manufactured by IndiKar be integrated into our mass-production process?”

IndiKar takes responsibility for an integrated production process and logistics planning in close liaison with the customer. Additionally IndiKar is capable of manufacturing low volume runs to OEM terms of manufacture and quality.

“What projects does IndiKar typically undertake?”

- One off specialist vehicle builds
- Vehicle body conversions such as limousines
- Prototype vehicles and commercial and heavy goods vehicle cabs
- One off and low volume runs in sheet metal plastics and other synthetic materials
- Systems and component supplier to OEM special armouring projects utilising lightweight materials and traditional steel
- Converter of COTS vehicles to armoured vehicles meeting the requirements of National and international standards
- Specialist concept exhibits for trade fairs and corporate presentations





"Where to find us"



IndiKar Individual

Karosseriebau GmbH

Am Schmelzbach 85
D - 08112 Wilkau-Haßlau
phone: +49(0)3 75/60 68-100
fax: +49(0)3 75/60 68-200
Email: info@indikar.com

Office:

SE-Center Neckarsulm
Gottlieb-Daimler-Str. 40
74172 Neckarsulm
phone: +49(0)71 32/170 26 20
fax: +49(0)71 32/170 26 29





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project management

engineering

prototyping

tool manufacture

production

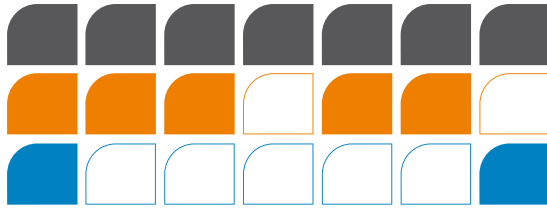
vehicle armouring

car sales

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Automotive

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