



# Automotive Solutions

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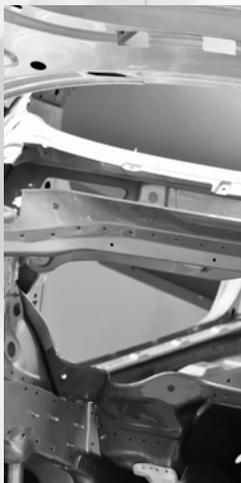
Mobility



Safety



Lightweight  
Construction



Steel and aluminium are materials that are universally used in the automotive industry. We make sure that their properties are exactly tailored to their respective purposes. Providing the highest standards of material, technology, logistics, and cost-effectiveness, we continuously expand our portfolio by new alloys, products, and solutions – our contribution to future mobility.



### Components for the Future

Mobility governs our everyday lives. Highly developed, **functional components made of aluminium, hybrid components**, and new developments in the field of **high-strength steels** make significant contributions in this respect. This makes vehicles, in particular, more economical, more energy-efficient, and, above all, safer.



### High Level of Safety Despite Low Weight

Whether regarding anti-vibration systems, interior components, or structural components – such as cross beams or longitudinal beams manufactured at our plants – an entire range of steel and aluminium products is available that is not only representative of comfort, but also of safety in the passenger compartment as well as passenger protection. Our patented **Duktal®** aluminium alloy serves as a prime example in terms of special crash resistance. It features a particularly high level of strength combined with ductile performance.



### Sustainability within Vehicles

Lightweight construction not only makes new structural concepts possible, but it also helps to significantly reduce the fuel consumption of conventionally constructed vehicles. Our components thus contribute to sustainability throughout the entire life cycle. **Aluminium and steel**, which possess outstanding recycling properties, are important and **proven raw materials** for the automotive industry of the future.

We are certified.



## Intelligent Combinations

Lightweight construction and the increasing diversification of drive concepts, models, and body variants require more and more complex and individual components. We take **all materials** into consideration and not only look for steel or aluminium solutions, but we also – in close cooperation with our customers – search for material mixes that provide the best solutions for **complex requirements**.



## Material and Production Optimization

In the automotive sector, we rely on intelligent simulations that meet our customers' standards. Our competence team calculates the properties of the resulting component for each shaping step. The **machining process is precisely simulated in advance** and is analyzed and optimized before the first prototype is even produced. The properties of the finished component can be predicted with greater precision. As a result, development times are reduced and tool expenses are saved.



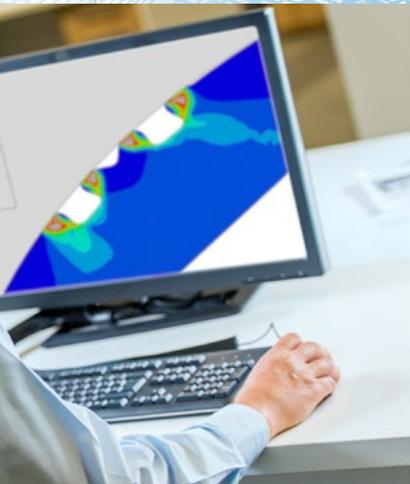
## Customized Capacity

Our product portfolio, our vertical range of manufacture, and our production and processing capacities are constantly being expanded. This ranges from **prototype and small series production to fully automated and robot-assisted production cells** in which the components can be assembled ready for installation. Comprehensive monitoring in accordance with IATF certification also encompasses our upstream and downstream processes.

Production and  
Manufacturing



Engineering

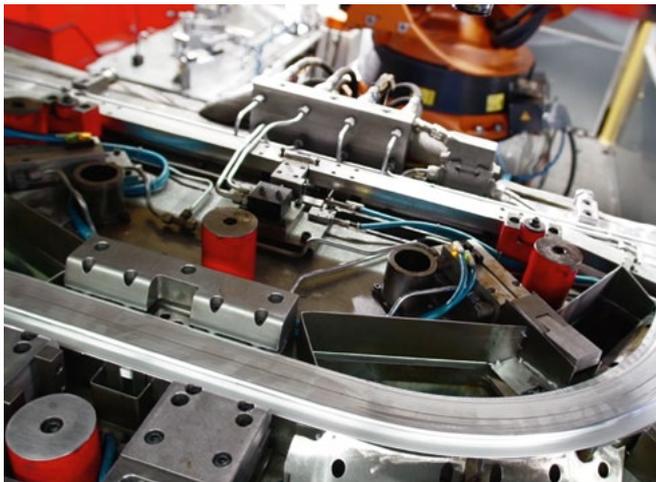


Simulation



## CNC Machining

Economical components require structured processes. Via our high-speed systems, your components can be cut using three, four, or five axles. The process is optimized through the use of shuttle tables and minimal tool change times.



## Punching

Punching processes are worthwhile – even for “medium-sized series”. Whether chambers, flanges, or bridges, we cut profiles in the context of the process in a repeatable and precise manner. The integration of bending operations or forming increases profitability.

## Form Shaped Blanks

Our high-performance press is the core of our blank cutting system. It boasts extraordinary dimensions of up to 2,500 x 1,600 mm and a high level of flexibility. It can take up tools of up to 1,250 mm height. We cut shaped planks, also available on a contract manufacturing basis, with tools provided by our customers.

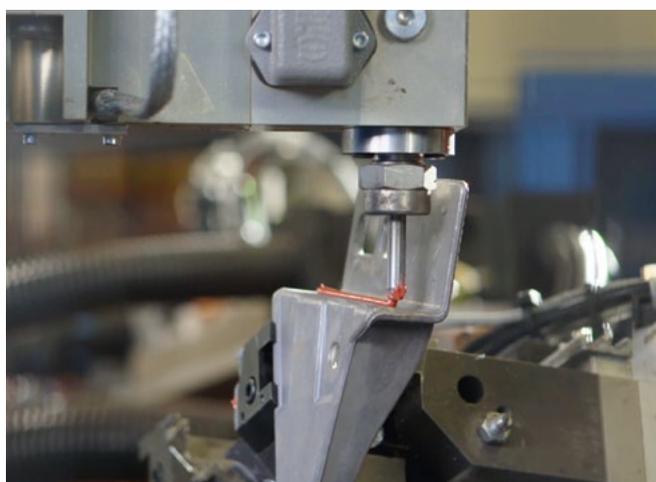
## Stretch Bending

We have both state-of-the-art technology and reliable expertise at our disposal. The most complex 3-D geometrical shapes are formed using our stretch bending systems. Your workpieces can also be manufactured using roll-bending, flex-bending, and die-bending processes.



## Welding

Welding processes and hybrid joints, such as welding/bonding, are carried out on our highly automated systems.



## Bonding and Riveting

The challenge of continuously reducing consumption can be met via multi-material design. Our robot-assisted joining processes include bonding, riveting, punch riveting, and press-fitting.

## Tailored to the Application

We offer our customers a **wide range of application-specific alloys**. We are particularly skilled at optimizing surfaces, increasing strength levels, and improving malleability. Duktal®, our own patented development, is in demand, for example, in crash-relevant fields.



## Specifically Suited for Prototype Construction

For components that are undergoing prototype construction, our Steel Service Centers supply **steel in special grades and intermediate thicknesses** worldwide to the automotive sector, among others, because tool testing is generally carried out by the toolmaker. Depending on the requirement, very small quantities of any producible steel specification can be supplied in special packaging – from a single sheet.



## Surface Technology of the Highest Precision

Making what is good even better – that is our claim, and it is reflected in our refined Shinox®Sn and Shinox®Zn strips as well as our specially refined strips (multi-layer refining). **The further processing of our steel products has been made more efficient.** For example, we have been able to improve soldering properties and whisker resistance – which has a direct impact on the longevity of our customers' end products.





Alloys



Special Grades



Finishings





Supply Chain



Digitization





### Just in Time, Just in Sequence

We strive to ensure that precisely the right product is in the right place at all times. As a result of our **decentralized corporate structure**, you stand to benefit from the convenient proximity to our locations and contact partners in your vicinity. We regard ourselves as **part of your supply chain** and work around the clock to make sure that it is as efficient as possible. You can outsource part or all of the procurement and disposition process to us, depending on your own capacity. You can also benefit from the use of our consignment stock.



### Future Digitization

In order to meet the future requirements of our customers and suppliers, we have created a **technological platform** as a basis for supporting logistics, production, and sales through the use of integrated application software. Ultimately, our **digitization strategy** aims to optimize our daily working life as well as our relationships with business partners.

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