



We drive the future

For over 15 years TRIKON Engineering GmbH has been a provider of comprehensive, intelligently designed and cost-effective engineering solutions. We have made it our objective to develop innovative and practical solutions on the basis of our clients' wishes and needs. Our range of services covers the following key areas:

- Projects and construction of equipment for the automotive industry and other sectors
- Technical services for mechanical, electro-pneumatic and pneumatic equipment
- System delivery for complex assembly operations
- Design & coordination of assembly lines and their subunits

For progress to shape the future it must be goal-focused. It must offer real benefits not just for the company, but also for the various stakeholders like employees, clients or investors. For this reason, we pursue sustainable investment in core fields such as efficient structures, specialist competence and a continuous knowledge transfer with our clients. After all, we want to carry on providing fresh impetus and drive in an increasingly dynamic environment in the future.



Door fitting and removal

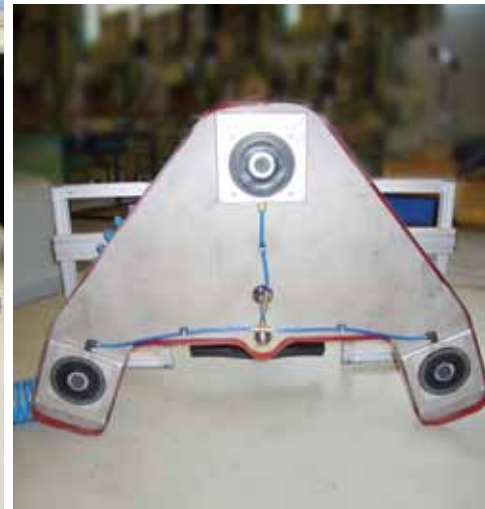
We drive advantages

The assembly and disassembly of door components has long been a challenge in automobile manufacturing. The weight and dimensions of the components combined with minimal fitting tolerances and a fixed cycle time demand innovative and practical solutions.

We develop efficient handling systems for door fitting and removal to suit the individual situations and requirements of our clients. Our engineering designs allow handling with a minimum of effort and the maximum possible precision within the shortest time.

Compelling arguments:

- Structure-independent use
- Ergonomic design
- Economic handling processes
- Highly flexible range of uses



Aerospace seat

We drive flexibility

Many work processes on production lines – especially overhead assembly operations – demand a high degree of flexibility, mobility and efficiency from the line workers. Over the course of a working life, the resulting strains may well have lasting physical effects.

The aerospace seat developed by us has been entirely designed to meet the demands of both the company and its employees. It uniquely combines economic and ergonomic qualities. Because it floats on cushions of air, it can be moved with very little effort. The ergonomically shaped seat system with its trays for material, tools and wrenches makes operations fast and optimises health factors.

Compelling arguments:

- Structure-independent use
- Ergonomic design
- Economic handling processes
- Highly flexible range of uses



BIW door fitting

We drive precision

Fitting of the door elements in the body-in-white door hanging process requires grippers that can be operated with the highest possible precision. Our strength is in the design, engineering, manufacturing and assembly of complex systems that meet the requirements of this production step. Our equipment not only enables you to reliably adjust the door to the desired gap width with just a few manual operations. Alongside outstanding production engineering standards, we especially deliver long equipment life and reliability. That is why our plants can be run continuously even in 3-shift operation over 4-6 years.

Compelling arguments:

- Precise door locating
- Easy operation
- Long service life
- Suitable for continuous operation



Ergonomic Assembly Seat

We drive performance

Keys to success are not only the training of the individual employees but also the design and efficiency of tools and production equipment.

To optimise production processes we have developed EAS – the Ergonomic Assembly Seat. This system's design allows its use in a wide range of different assembly zones and fitting locations.

EAS standard

EAS standard systems with or without height adjustment

- For skid or slat conveyor systems
- Variants: single-cycle or two-cycle, twin system for both sides

EAS hanger

EAS systems with or without height adjustment

- For production with hanging conveyor systems
- Variants: single-cycle or two-cycle, twin system for both sides

EAS pre-assembly

EAS systems without height adjustment

- For pre-assembly workstations or workstations for employees with restrictions
- Variants: integrated fixture and assembly jig



Ergonomic Assembly Seat

EAS vehicle rear opening

- EAS systems with height adjustment
- For vehicle rear opening
- For production with slat or skid conveyor systems

EAS engine compartment

EAS systems without height adjustment

- For engine compartment assembly work
- For production with slat, skid or hanging conveyor systems (rotatable through 360 degrees)

All configurations enable the technician to fit the required parts in and on the vehicle while seated with a supported back. This system offers the advantages of a simple and flexible design, and can be custom-configured to suit the vehicle type and fitting location. The assembly seat is not only a major contribution to working ergonomics it can also improve cycle times and increase installation rates in the various assembly zones.

Compelling arguments:

- Simple and intuitive operation
- Can carry wrenches, includes trays for material and tools
- Barrier-free working
- Flexible range of uses
- Custom-configured, process-oriented design



Moving racks

We drive efficiency

Every manufacturer has a keen interest in designing the processes and structures along its production lines for maximum efficiency. Because shorter paths on the line mean more time for the actual assembly operations. We have developed racks which move with the line and can be implemented as structure-dependent or independent systems.

They follow the production process and, depending on the application, they can be shifted along one or two axes. The racks are equipped with a docking system for easy attachment. In structure-dependent systems, an automatic return system and a mobile power supply are installed. The system thus provides the technician with all required materials, tools and electric or pneumatic wrenches just where they are needed.

Compelling advantages:

- Short paths
- Time saving
- Two axes of movement



Roller application plant

We drive processes

The fitting of trim and bump strips is a work-intensive production step that binds valuable manpower and thus offers enormous potential for savings. Our fully automatic roller application plants are a major step to greater process efficiency and reliability. By means of parameter-controlled adjustment of vehicle guidance to the line speed combined with type recognition, the system ensures that the car bodies pass through the plant in precise cycle times. The strips are applied with extremely low tolerances whatever the vehicle type, the colour or the temperature. The plant's mechanical-pneumatic drive system has proven its effectiveness in many areas and fulfils the highest standards in safety, ease of maintenance and reliability.

Compelling advantages:

- High process reliability
- Use for multiple models, colours and temperatures
- Fully automatic processes
- Proven drive system



We drive

Our clients

From global manufacturers to regional suppliers – renowned clients have been placing their trust in our extensive expertise for 15 years.

We see ourselves as a flexible and reliable service provider, also delivering tailored consulting services and development solutions side by side with our clients.

- **AUDI AG**

AUDI Ingolstadt
AUDI Neckarsulm
AUDI Hungary / Győr
AUDI Belgium / Brussels
AUDI China / Changchun
AUDI Spain / Martorell (Seat)
AUDI Slovak Rep. / Bratislava

- **BMW AG**

BMW Leipzig
BMW Dingolfing
BMW Munich
BMW America / Spartanburg
BMW Thailand / Rayong

- **VW AG**

VW plants in Germany
VW Spain / Pamplona
VW Slovak Rep. / Bratislava
VW Autoeuropa Portugal / Palmela
VW Russia / Kaluga
VW South Africa / Uitenhage
VW Mexico / Puebla
VW China / Nanjing
VW Brazil / Curitiba
VW America / Chattanooga

- **DAIMLER AG**

Mercedes Benz Sindelfingen
Mercedes Benz America / Tuscaloosa

- **Opel GmbH**

Opel Bochum
Opel Eisenach

- **Siemens AG**

- **INA-SCHÄFFLER GROUP**

GmbH & Co. KG

- **WMF AG**

- **FAURECIA**

- **Skoda GmbH**



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