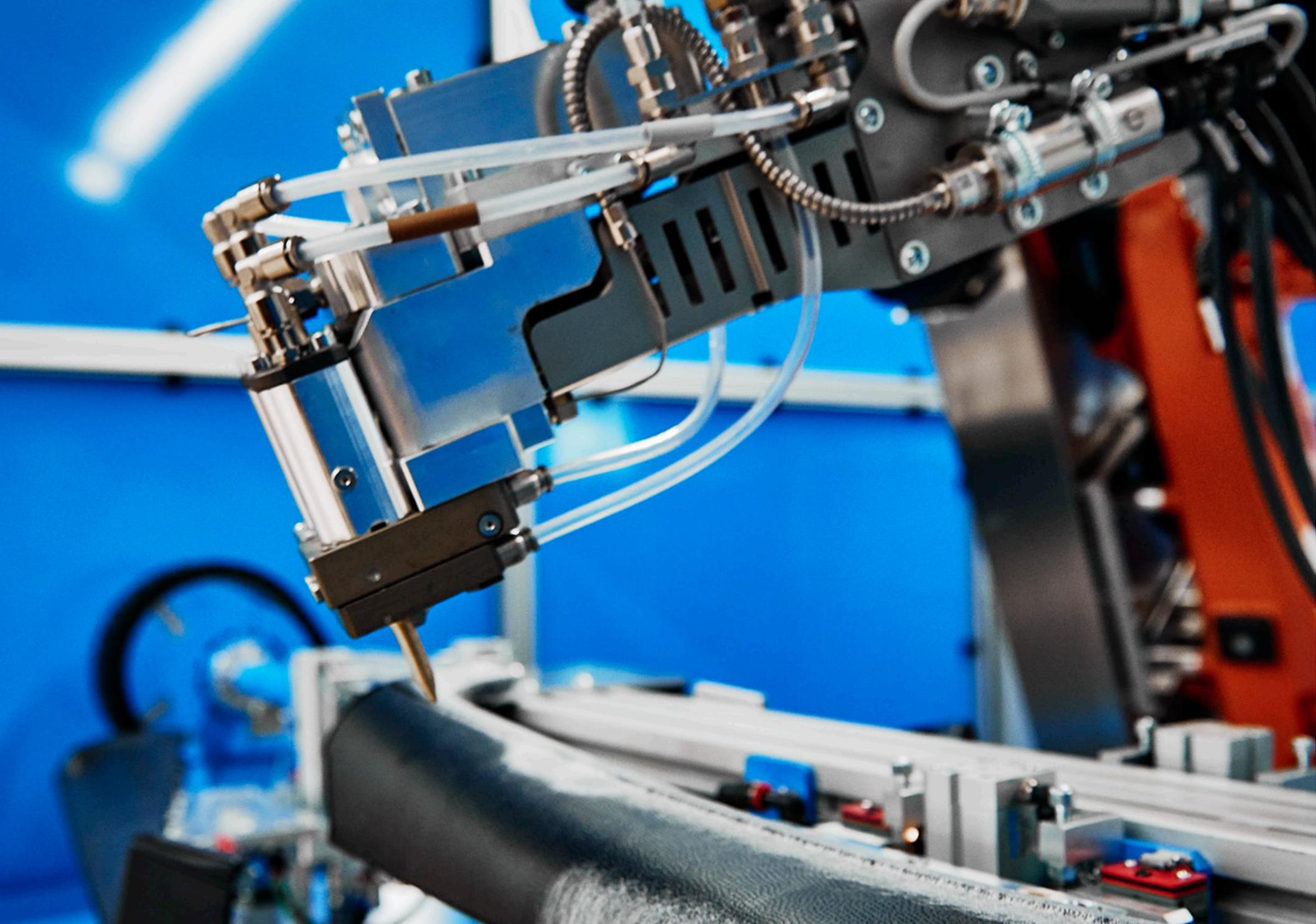


Special machine design for your requirements

We are your expert partner for special tasks





Your partner for special purpose machine design, rationalisation and automation

We offer innovative solutions for your production process

When it comes to solutions beyond standard, our services are in demand. We are specialists for challenging tasks. Greidenweis provides competence and know-how for rationalisation and automation of workflows. The focus is on production facilities for a variety of industries.

From individual tools up to custom-tailored manufacturing lines, we offer our services to a variety of sectors, especially the automotive branch and general industrial applications. Our individually developed plants, exactly adapted to the respective requirements, can be found in many production sites around the globe.

We are always looking for the best possible implementation to provide you with the optimum production process in terms of production technology and efficiency – this is how we realize the most suitable solutions for your tasks. Greidenweis offers flexibility and efficiency for optimum processes and high-quality results: we will be pleased to advise you on how to implement your ideas and requirements for your benefit.

Design: Sophisticated solutions in every detail



Special purpose machines and manufacturing lines can only complete tasks and work economically, if the developers and design engineers are ready to master all challenges. This includes competence, experience and creativity, too. We adhere to technical standards so you can make use of these benefits.

- › 3D design
- › CAD simulation
- › CAM programming
- › Robot simulation

Manufacture: Flexible and in-house



The in-house manufacture of special purpose machines is one of the pillars of our success. The flexible interplay of design and manufacture enables us to guarantee high-value and efficient solutions. As a customer you can rely on our guarantee of functionality and the high vertical range of production.

- › Machining (chipping)
- › CAM moulded parts
- › Large production capacities
- › High vertical range of production
- › Good network of suppliers

Installation: Precision paired with experience



Our experienced technicians and process engineers realize the plants delivered by Greidenweis to make sure they perform exactly those tasks you want them to perform. A precise procedure and in-depth knowledge of the machines and plants are the basis.

- › Complete assembly
- › Test run
- › Approval

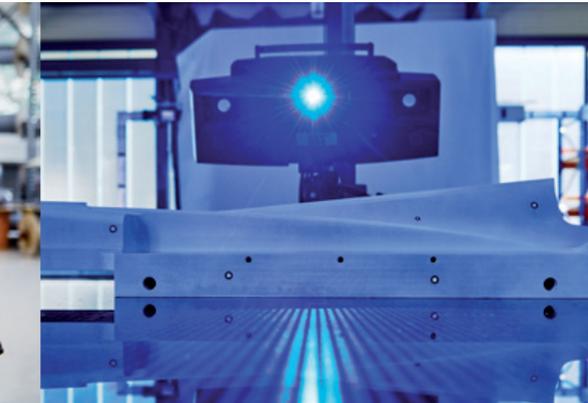
Control systems: State-of-the-art technology



Our machines and plants can only be as good as the corresponding control system. To provide you with optimum manufacturing results, we set high standards regarding the control system of manufacturing processes, too. Flawless planning and state-of-the-art implementation are prerequisites for this.

- › Control planning with EPLAN
- › Switch cabinet design
- › Software programming
- › Remote maintenance
- › Continuous documentation

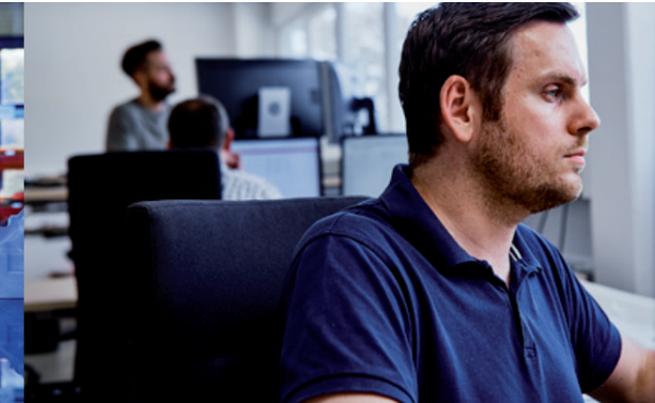
Quality management: Uncompromising, continuous monitoring



All production and machining processes must be examined continuously to ensure product quality. Our consistent quality management system provides us with quick spare part supply and comprehensive, user-friendly documentations facilitating maintenance, servicing and solving problems on-site.

- › Continuous examination of all processes
- › Quick spare parts procurement
- › Comprehensive, user-friendly documentation
- › Modern measurement instruments (ATOS Triple Scan)
- › Measurement of components, tools, moulds, prototypes and moulded and die-cast parts as well
- › Complete measurement data

Customer service: A holistic approach for reliable support



Our technical support assembly operators are at your disposal even during the initial setup. We start the plant and train your employees in the operation of the system; afterwards, our reliable after-sales service is at your disposal. Thanks to remote diagnosis we are capable of acting quickly, just in case something goes wrong. Then we can quickly employ standardised components, which are ready to use on-site within a short time when needed.

- › Support during initial setup
- › Starting the plant
- › Employer training
- › Reliable after-sales service
- › Remote diagnosis
- › Quick employment of standardised components

A multitude of possibilities for your sector

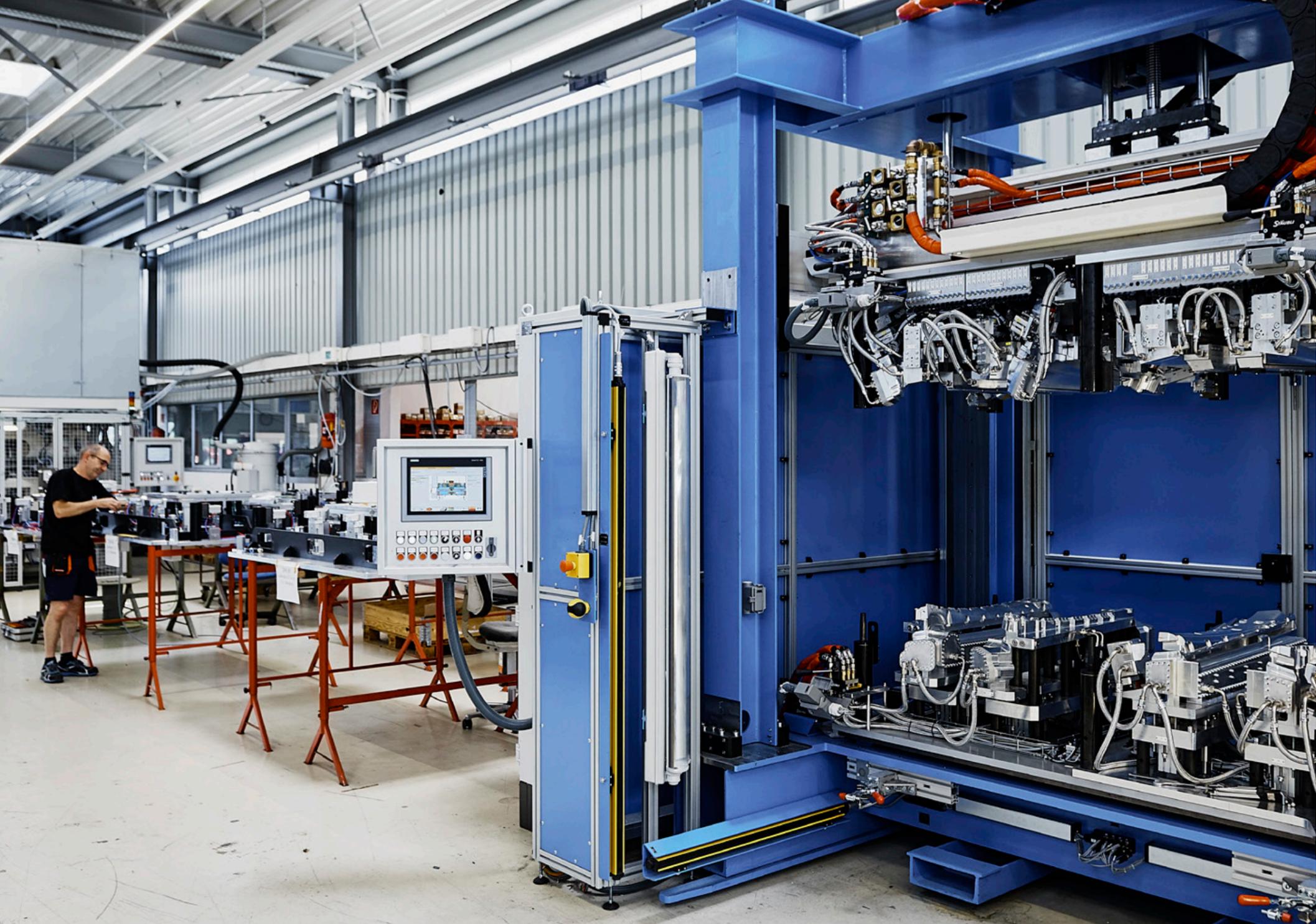
We provide you with state-of-the-art technology and tested processes

We rely on cutting-edge technologies, tested processes and decades of experience to be able to provide you with the best possible solution. As one of the leading providers in the automotive sector we develop manufacturing plants for interior parts starting from the gear knob up to the information panel. We have the competence to make use of a variety of technologies for our automotive customers in an optimum way. We are also able to make use of our competence for our customers and create benefits in various

further fields. We do know about the requirements in the wood processing industry, the metal and plastics industry and the electrical industry.

As a full-service special purpose machinery manufacturer our portfolio comprises customer-specific fixtures, machines, plants and production lines which we develop for a variety of industries. You can trust in our automation project expertise.





Sophisticated production plants for vehicle interiors

We are your expert contact partner

As a specialist for machines and tools we offer everything from simple manual workstations to complex, automated plants. We rely on our own components and our long-standing know-how. The integration of third-party providers is also part of our portfolio; however, you will have one expert contact person ("one face to customer"). Our services include:

Flame treatment

- › Especially for the surface treatment of plastics
- › Robot cells for flame treatment as a stand-alone solution
- › Integration of the process in glue application cells

Gluing plants

- › Complete application systems for hot melt adhesives
- › In-house components from smelter to application head
- › Integration of third-party providers

Punching equipment

- › Punching equipment with matrix-patrix technology as blade trimming for plastic parts
- › A focus is on the integration into other automation elements

Anti-squeaking lacquer application plants

- › In-house plants for the application of anti-squeaking coating
- › With corresponding drying and automation features

Mounting devices

- › Integration of rotary table machines, linear transfer systems and robot solutions
- › For machining operations such as screw-tightening, riveting, clipping, gluing, pressing and many more
- › Process monitoring, process documentation and connection with production systems as a standard

Robot applications

- › Integration of robots from various manufacturers
- › For individual plants and integration into manufacturing lines with interlinked processes
- › Robot-supported applications: handling, palletizing, drilling, milling, mounting, clipping, riveting, clinching and gluing

Pre-fixing devices

- › Distinctive competence for refined surfaces such as leather, synthetic leather and fabric lamination in the complete process chain



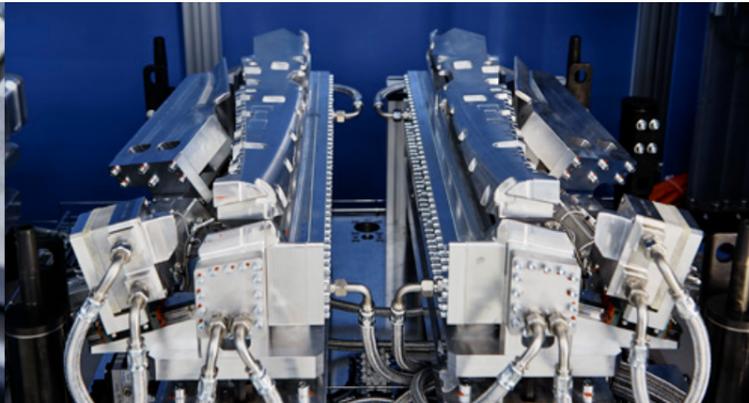
Laminating plants for all interior parts

We manufacture laminating plants for fabrics, films and leather. Whether integrated subsequent processes are in demand such as edge folding and punching, laminations with exact cuts for complex components or applications with hot melt and dispersion adhesives and variothermal and duothermal processes, we configure our tools and plants exactly according to your preferences – from simple laminating presses up to automated solutions with integrated glue application.



Optimum edge wrapping machines for a variety of interior components

Our portfolio comprises edge wrapping machines for all interior parts, from car roof via pillars up to door panels and inserts. We offer edge wrapping machines and tools, edge wrapping machines with integrated glue application and glue-free edge-wrapping for back-injected components.



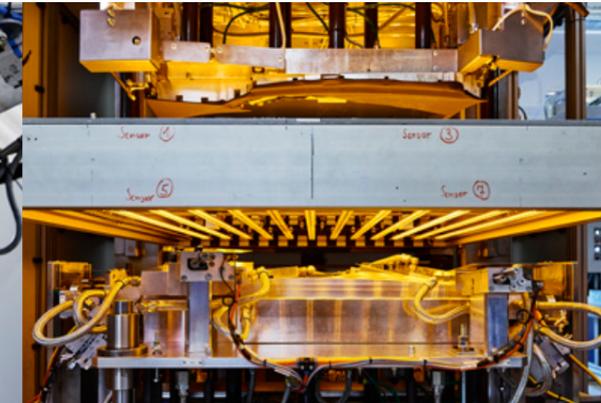
Special gluing and bonding plants for all degrees of automation

With regard to the process steps gluing and bonding we provide plants in various degrees of automation for the gluing of retainers, the mounting of attachment parts and hot riveting. This is how we provide you with plant, robot, gluing and feeding technologies from one supplier – a clear advantage for your production process.



An additional benefit for you: Greidenweis technology centre

We operate an in-house technology centre for laminating and gluing tests. This is how we can in-house perform tasks such as feasibility studies, laminating tests, choice of adhesives, prototyping and pre-series production. For your benefit, we provide the entire process of flame treatment, corona treatment, hot melt glue application (rolling and spraying, also robot-operated), adhesive application by dispersion (spraying) and laminating (with hydraulic laminating press).



Why are we your right contact in the field of special purpose machine design?

- ✓ **Quick and flexible working method**
- ✓ **Great expert knowledge and decades of experience**
- ✓ **In-house design and manufacture**
- ✓ **Global projects**



Greidenweis is the specialist for your requirements and your challenging production and manufacturing tasks. Don't hesitate to talk with us about complex challenges and custom-tailored solutions. We are looking forward to receiving your requests and will be pleased to advise you.