



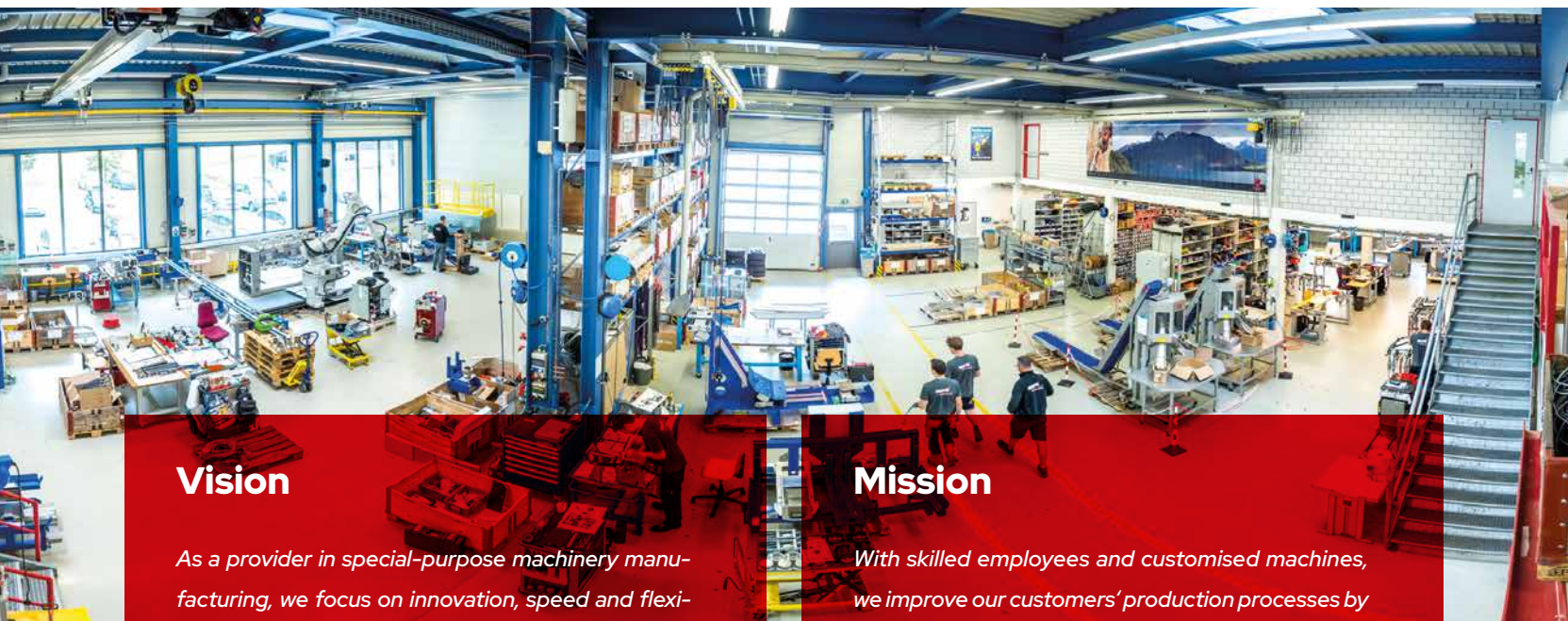
***marti***  
***engineering ag***

**INNOVATIVE • FLEXIBLE • INDIVIDUAL**

# Reliable Solutions

for Your Production Processes

marti engineering ag, a special-purpose machinery manufacturer based in Glarus (Switzerland), employs around 50 staff members and delivers innovative, tailor-made solutions. From the initial sketch to the turnkey machine, we support our customers every step of the way, ensuring technically flawless and on-schedule implementation.



## Vision

*As a provider in special-purpose machinery manufacturing, we focus on innovation, speed and flexibility. Our close customer relationships enable us to understand needs precisely and build long-lasting, satisfied partnerships.*

## Mission

*With skilled employees and customised machines, we improve our customers' production processes by delivering solutions that are individually tailored and highly efficient.*

## A Look at Our History

**1981**

Founding of „B&M Konstruktionsbüro“ in Schwanden, Glarus

**1985**

Conversion into a joint-stock company

**1988**

Renamed marti engineering ag

**1996**

Relocation to larger premises in Mitlödi, Glarus

**2003**

Move to a newly constructed facility in Mitlödi, Glarus

**2014**

Expansion of office space and assembly hall

**2024**

New owners: Pascal Kamber, Michael Luchsinger, Annina Marti, Roman Wohlwend



## Corporate Strategy

**Tailor-made solutions:** We deliver customised solutions to enhance the productivity and quality of our customers.

**Flexibility and quality:** By leveraging adaptability and the latest technologies, we ensure high-quality and reliable products.

**Customer collaboration:** Close collaboration with our customers secures long-term partnerships and satisfaction.

**Innovation:** We utilise cutting-edge technologies to remain at the forefront of our industry.

**Sustainability:** With eco-friendly practices, such as the use of renewable energy, we contribute to sustainability.

**Social commitment:** We create attractive jobs in the region and support local and social projects.

### Expertise at a Glance

- Feasibility studies and analyses
- Electrical and mechanical engineering
- PLC programming
- Production
- Control cabinet construction
- In-house assembly and commissioning
- On-site assembly and commissioning
- Service: Overhauls, maintenance & repairs
- Support

### Industries

- Automotive (bodywork, aluminum die-casting)
- Plastics
- Food
- Packaging
- Pharmaceuticals
- Watchmaking
- Medical technology
- Special applications

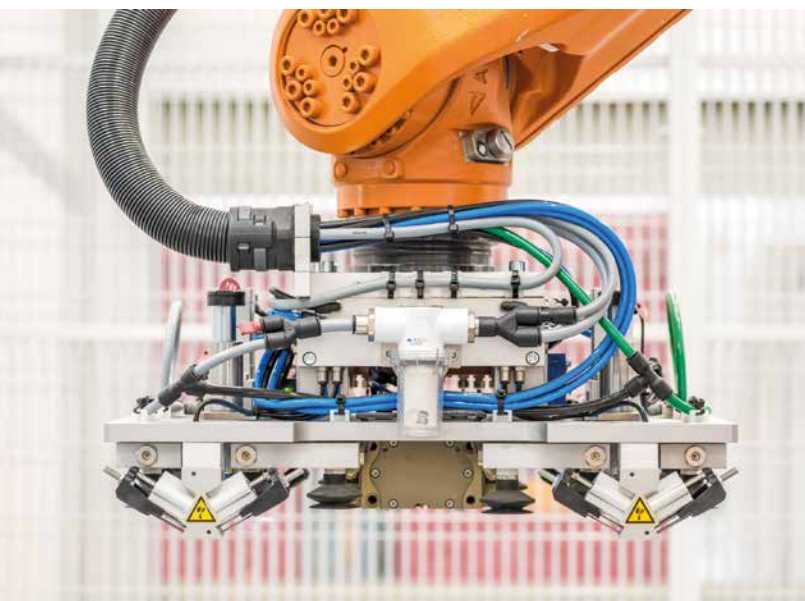
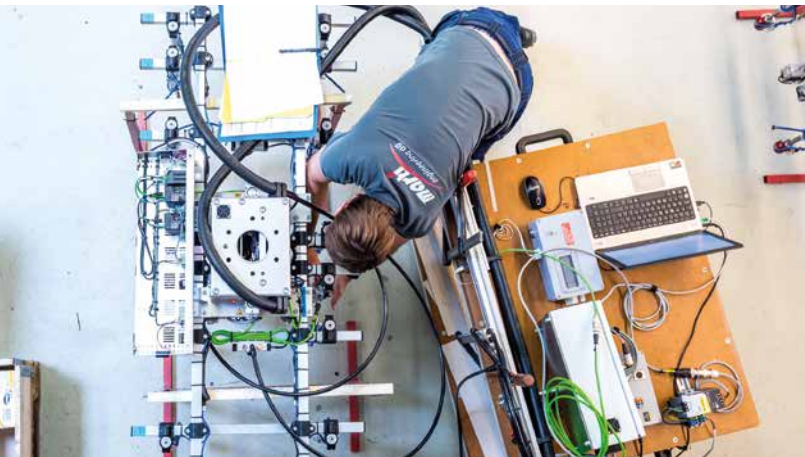
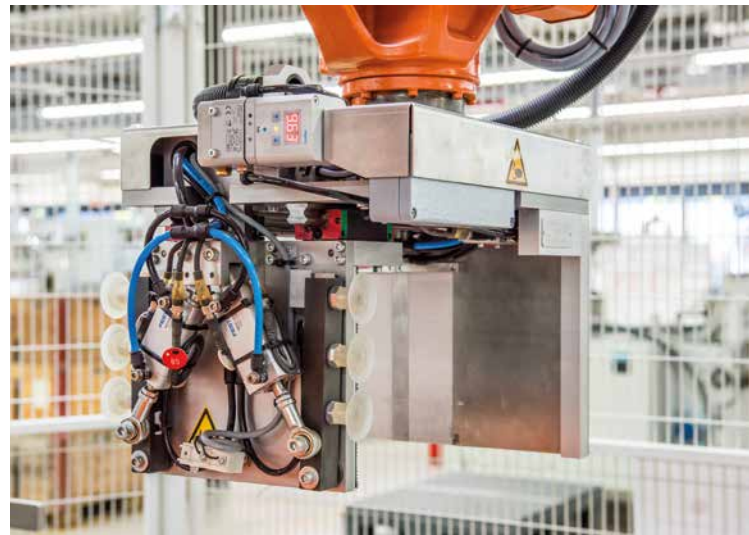
## Competencies

When standard machines are not enough, we develop custom products based on specific customer requirements. Our project team manages all phases – from the initial concept to commissioning. Even after successful final acceptance, our service team provides the necessary support.

# Robotic Grippers, Testing Systems and Manual Workstations

In its early years, marti engineering ag specialised in the development of robotic grippers designed for a wide range of applications. Over time, our portfolio has steadily expanded: whether ergonomic manual workstations, assembly and testing systems, conveyor technology, or process automation, we deliver tailored solutions for diverse industries and requirements.

These solutions remain among our core competencies and reflect our extensive experience. Our custom products meet the unique needs of our customers and are always designed with maximum efficiency and precision in mind.



## Examples of Our Grippers and Workstations

- Canister gripper
- Extraction gripper for plastic or die-cast components
- Sheet metal gripper
- Gripper for the packaging and food industries
- Tube gripper
- Gripper for palletising and order picking tasks
- Manual workstations for assembly and testing tasks
- Manual screwdriving stations
- Testing stations for individual parts and assemblies (e.g. leak, functionality and completeness testing)
- These applications are designed to optimally support our customers' production processes and meet their demands for efficiency and quality



## Automated Testing for the Automotive Industry

High-quality standards are critical in the automotive industry. marti engineering ag has developed fully automated testing processes for this sector to ensure components are inspected on time and with consistent top quality. One example is the testing of expansion tanks, where an articulated robot is employed.

This system allows precise and consistent testing of components, some of which are assembled at manual workstations. This ensures that all parts are tested according to the same criteria and with the highest precision.



## Project Details

- **Planning and delivery:** The complete planning and turnkey delivery of the testing system was completed in approximately 10 months.
- **Integrated data processing:** The system is integrated into the customer's operational data system, allowing all relevant testing data to be transmitted and processed in real time.
- **Testing workflow:** All test parts are manually placed in an input drawer, initiating the automatic testing process. Tested components are either made available for further processing or automatically ejected in case of defects.

## Functionality of the Testing System

- **Operation:** The operator places the lids in a feed chute and the test parts in a drawer.
- **Robotic testing:** A robot retrieves the test parts and conducts various inspections, including pressure and leak tests, O-ring and overflow tests, as well as additional functional and completeness checks.
- **Results processing:** The robot sorts the parts based on the test results. Faultless components are placed on an output conveyor, while defective parts are ejected.
- **Final processing:** Accepted parts are collected on a buffer table and can be retrieved by the operator.

# Innovative Automation Solutions

In collaboration with our partner, Marti Systeme AG, which specialises in robotics, we implement innovative automation solutions that provide our customers with tailored and efficient processes.

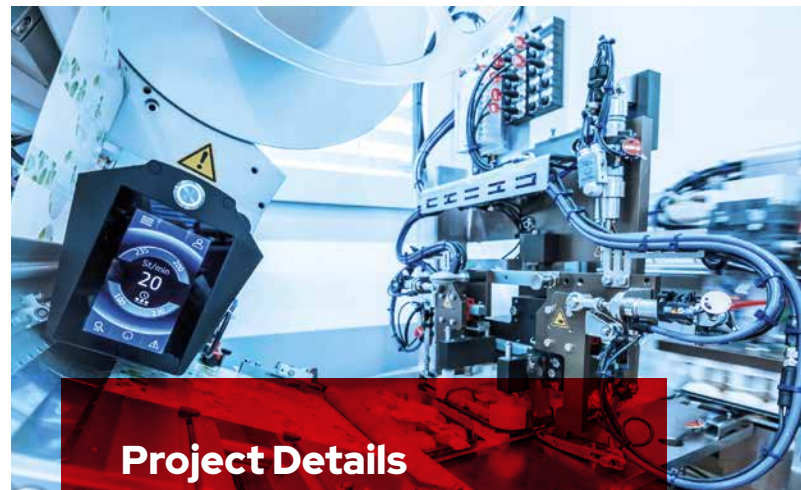
## Completed Projects

**Production and packaging systems for the food industry:** These systems enable efficient and hygienic food production and packaging, tailored to the specific requirements of the sector.

**Fully automated production systems for steel parts:** Designed for processing steel components, these systems enhance production processes through automation and integrated quality controls.

**Assembly systems for automotive sector components:** We develop fully automated systems that ensure precise and rapid assembly of components for the automotive industry.

**Manual assembly workstations combined with robot-controlled screwdriving stations:** These solutions offer an efficient blend of human flexibility and robotic precision to optimise assembly processes.



## Packaging System for Herb Butter Rosettes

For Pacovis AG, we developed a packaging system that enables the flexible and efficient packaging of herb butter rosettes. The new packaging concept, which accommodates various blister sizes and shapes, required a customised automation solution. Our system processes different packaging sizes and adapts to the limited spatial constraints of the customer's facilities.

### Project Details

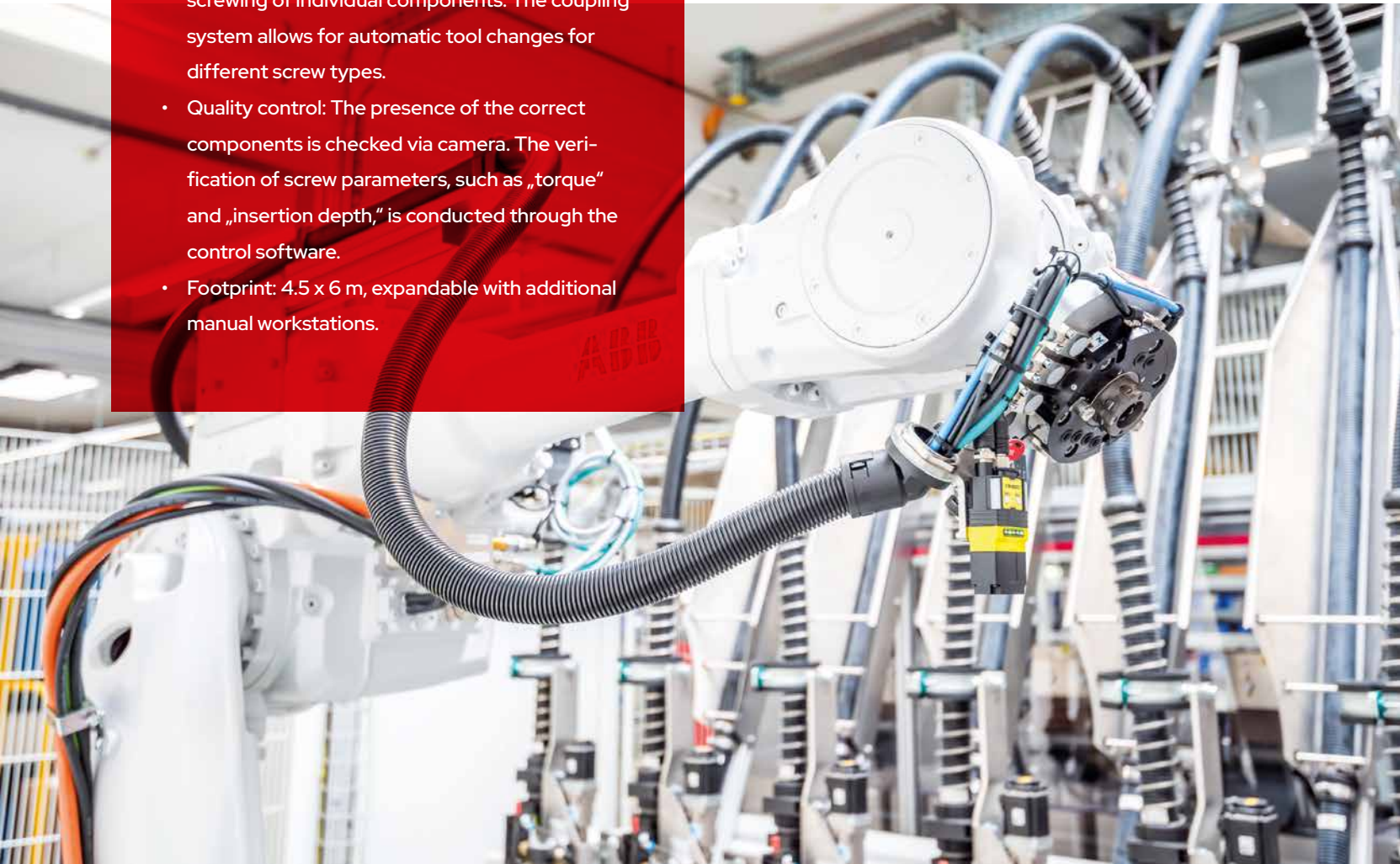
- Footprint of the system: 5.5 x 7 m, optimised for tight spaces
- Workflow: Automated feeding of base trays, manual placement of herb butter rosettes, camera-based piece count control, lid feeding and sealing, labeling and quality control via camera systems
- Project duration: Approximately 7 months from the initial concept to delivery

## Semi-Automated Assembly and Screwdriving Station

For ABB Schweiz AG, we developed a modern system for the semi-automated assembly of various components. The system is designed for the efficient assembly of complex components in different configurations. Various types of screws are automatically fed, screwed in and checked for torque and insertion depth.

### Project Details

- **Manual workstation:** The assembly parts are manually placed in the workpiece carrier or assembly unit by the operator. The assembly sequence is visually displayed.
- **Automation:** An ABB 6-axis robot performs the screwing of individual components. The coupling system allows for automatic tool changes for different screw types.
- **Quality control:** The presence of the correct components is checked via camera. The verification of screw parameters, such as „torque“ and „insertion depth,“ is conducted through the control software.
- **Footprint:** 4.5 x 6 m, expandable with additional manual workstations.



# Peripheral Devices for Die-Casting Cells

For many years, marti engineering ag has been a reliable provider of grippers and machinery used in demanding die-casting cells worldwide. We design and manufacture a comprehensive range of equipment tailored specifically to the needs surrounding die-casting cells. Our products are also at the forefront of the „Mega/Gigacasting“ sector.

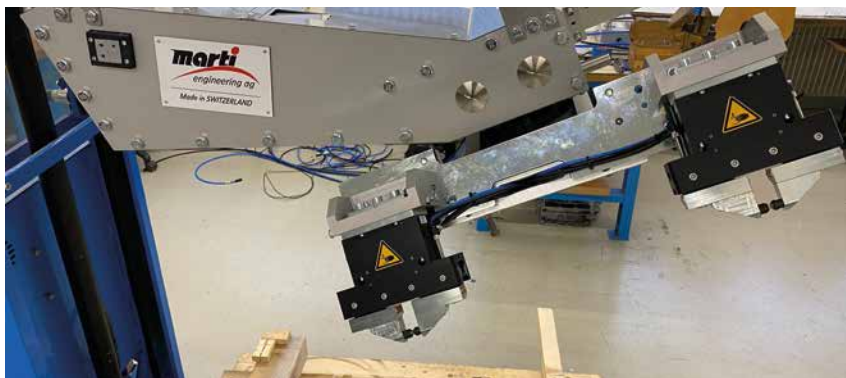
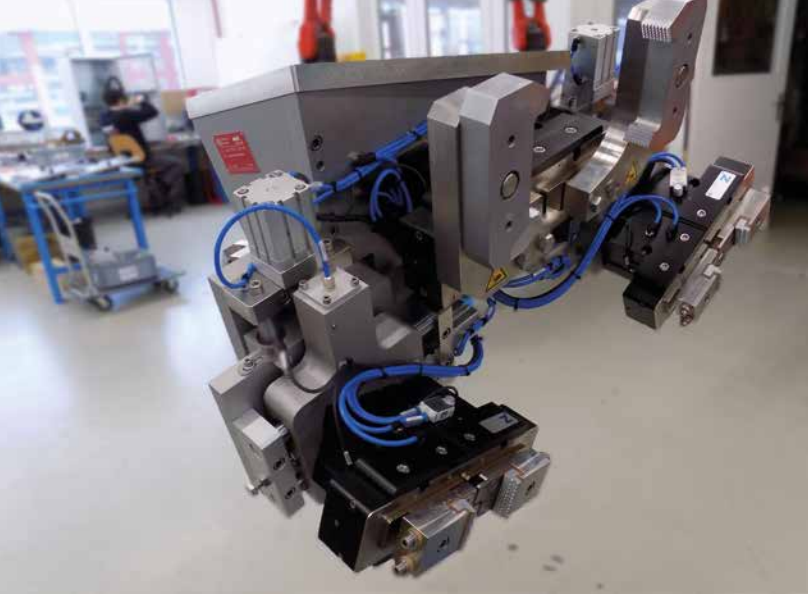


## Our Solutions Include:

- Feeding and heating systems for insert parts
- Gripping systems for the handling and extraction of hot workpieces
- Cooling stations with lift systems
- Sawing stations for cutting off the sprue
- Testing stations (visual, mechanical, some with marking units)
- Conveyor and palletising stations

For over ten years, we have been developing maintenance platforms that, across various product generations, offer different options for quick, safe and easy access to the die-casting mold.

In addition, we offer modified articulated and telescopic work platforms for stationary use in die-casting cells. These flexible devices ensure safe maintenance access around the die-casting machine, contributing to both efficiency and safety in production.



# We Thank Our Business Partners



**INTELLIGENT MOTION**  
Columbus McKinnon



Ihr Spezialist und Partner rund um die moderne  
Blechbearbeitung.

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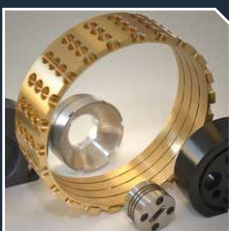


**JUD**  
CNC Technik GmbH  
Präzisionsmechanik

## PRÄZISIONSMECHANIK IN TOP QUALITÄT

Als Spezialisten legen wir viel Wert auf qualitativ  
hochwertige Leistungen und setzen hierzu modernste  
Technologien ein.

Unser Leistungsspektrum reicht von Einzelteilen,  
Prototypen bis hin zur Serienfertigung aus Metall-  
und Kunststoff.



- ✓ Drehen
- ✓ Fräsen
- ✓ Laserbeschriftung
- ✓ Beratung



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# ABB Robotics

## Komplettes Portfolio an Robotern, Software und Servicelösungen

ABB Robotics ist einer der weltweit führenden Anbieter von Robotik und Maschinenautomation und verfügt als einziges Unternehmen über ein umfassendes und integriertes Angebot an Robotern, autonomen mobilen Robotern und Technologien für die Maschinenautomation, die mithilfe unserer wertschöpfenden Software entwickelt und koordiniert werden. ABB Robotics beschäftigt circa 11.000 Mitarbeitende an über 100 Standorten in rund 50 Ländern.

### Branchenportale

- Automotive
- Elektronikindustrie
- Lebensmittel- und Getränkeindustrie
- Intralogistik
- Giesserei- und Schmiedeindustrie
- Metallverarbeitende Industrie
- Bauindustrie
- Gesundheitswesen
- Bildungseinrichtungen

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