



# ROBOSYS

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Robot automation – from concept to series production



## About Us

RoboSys GmbH is an automation and mechanical engineering company in the field of robotics. Since 2001, we have automated manufacturing and handling processes with a focus on welding processes. Our range of services covers the entire path – we assess feasibility and advise on process selection, develop and plan the system, and take care of commissioning and service.

From our headquarters in Berlin-Adlershof and our branch in Leipzig-Heiterblick, our interdisciplinary team designs and implements tailor-made automation solutions for your processes to secure production quality and reduce cycle times. Our claim: to solve your requirements with simple, robust and at the same time innovative means.

Through long-standing cooperation with Reis Robotics, Haane Welding Systems and KUKA, we have developed into a reliable, globally active partner in robot automation – with solutions that simply work and remain viable long term. Our new and refurbished solutions are used in the following application areas:

### WELDING / CUTTING

- MIG-/MAG-welding (joining and cladding)
- TIG-welding (joining)
- Laser welding (joining and cladding)
- Resistance spot welding
- Gas, plasma and laser cutting

### HANDLING

- Handling of photovoltaic components
- Palletizing tasks
- Liquid metal dosing in high-pressure and permanent-mold casting
- Handling of casting, forging and machined components
- Core positioning in permanent-mold casting

### SPECIAL APPLICATIONS

- Adhesive application
- Woodworking
- Drilling, milling
- Riveting, grinding, blasting
- Clinching / press joining

## Our Expertise

### ENGINEERING

We evaluate your automation potential and develop a custom system solution based on your specific requirements.



- Consulting
- Feasibility studies
- Concept development
- Technical system design
- Offline programming environment

### SERVICE

We will commission your system and keep it running by responding quickly when necessary.



- Commissioning
- Programming
- Inspection, maintenance, repair
- Retrofit
- Training

### SALES

We meet your needs by providing new and refurbished components, which form the basis for cost-effective system concepts.



- Industrial robots
- Robot peripherals
- Used systems
- Spare parts service
- Welding technology



## CONSULTING

We evaluate your company to determine where automation would be beneficial and analyze your automation potential. Based on this analysis, we provide comprehensive advice on the most suitable robot, welding, and cutting technologies. You will receive clear decision support in the form of a variant comparison, rough layout, cycle time/ROI estimate, and roadmap.



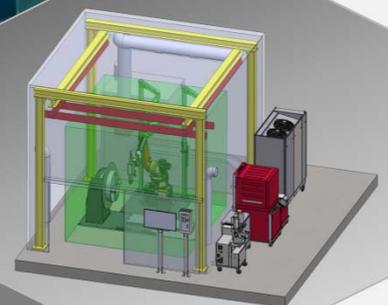
## FEASIBILITY STUDIES

We analyze the automatability of your component through welding and accessibility trials on our test systems, as well as digitally, using state-of-the-art 3D CAD simulations. This allows us to develop robust solutions and identify weak points early on.



## CONCEPT DEVELOPMENT

Based on your requirements, we will develop a detailed automation concept, including cell layout and a quotation for the construction or retrofitting of your robot cell. We address your challenges with customized designs and automation solutions to ensure optimal efficiency and performance.



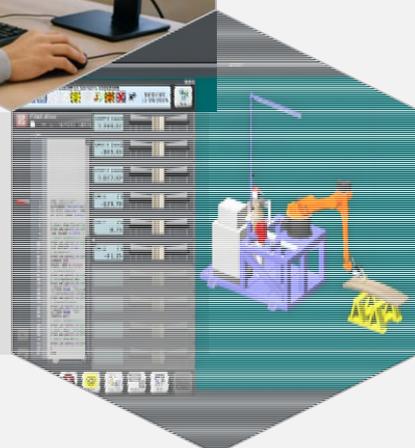
## SYSTEMS ENGINEERING

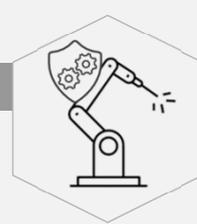
Based on your detailed concept, we carry out the technical design, including the mechanical design of individual components and complete systems, as well as electrical schematics and pneumatic diagrams. We use leading CAD solutions, such as SolidWorks, for this.



## OFFLINE PROGRAMMING ENVIRONMENTS

We will set up and tailor existing offline programming solutions to your application, processes, parts, and cell layouts. This makes it easier for your team to create new programs and implement changes safely. If desired, we can train your users and provide concise documentation to ensure the solution's long-term success.





# Service

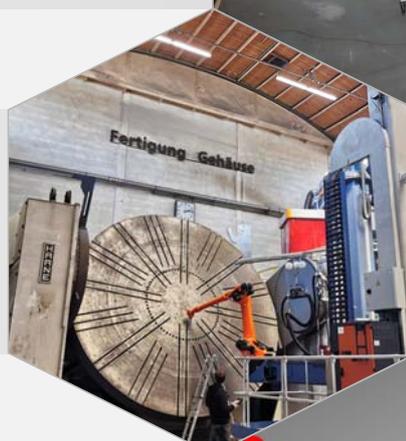
## COMMISSIONING

We will set up and commission your new and refurbished systems, which we will supply. We coordinate with your team, perform functional and safety tests, and provide support until the system runs stably at cycle time. This includes a clean handover and documentation.



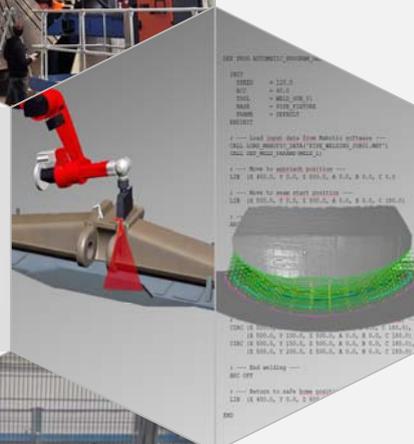
## RETROFIT

We modernize and expand existing systems by integrating new welding equipment, gripper systems, sensors, and control upgrades. These upgrades increase quality and availability, extend the life cycle, and integrate new functions with the shortest possible conversion time.



## PROGRAMMING

We program robots and PLCs using sequence and cycle-time logic, integrating sensors and peripherals, and interfacing with existing systems. As an optional feature, we use automatic program generation, where a line laser captures the position of the seam and the geometry of the component. From this, paths and the robot program are generated automatically.



## TRAINING

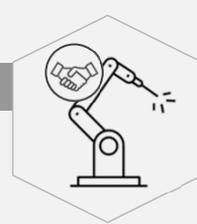
We provide training for your employees on how to operate, change over, troubleshoot, and make simple program changes safely and smoothly. The training is hands-on at your cell and includes concise documentation, so the knowledge stays in your company.



## INSPEKTION, WARTUNG, REPARATUR

We thoroughly inspect your system, perform scheduled maintenance according to a checklist, and quickly resolve any faults. We proactively plan for wear parts and updates so that availability stays high and downtime remains short.





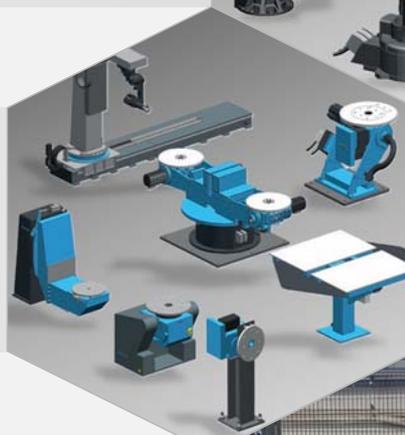
### INDUSTRIAL ROBOTS

We distribute new and refurbished industrial robots from REIS and KUKA. Our portfolio includes a wide range of payload classes, work envelopes, and robot kinematics. From compact welding robots to heavy-duty systems, selection and sizing are aligned with your parts, cycle-time targets and cell layout.



### ROBOT PERIPHERALS

We distribute new and refurbished robot peripherals from Reis and Kuka: rotary/tilt and rotary/swivel modules, multi-station rotary tables, linear robot gantries, bridge gantries and linear floor tracks. These peripherals can be integrated as external, freely programmable robot axes.



### USED SYSTEMS

We purchase used REIS systems and components, using them for spare parts recovery or as the basis for new, cost-efficient system concepts. Each system is recorded, inspected, and refurbished as needed. The result is economical conversions and retrofits, including documentation and functional verification.



### SPARE PARTS SERVICE

We supply new and used genuine spare parts for REIS and KUKA systems. Additionally, we repair defective REIS components, including servo amplifiers, safety controllers, and teach pendants. Many parts are available from stock and can be delivered quickly!



### WELDING TECHNOLOGY

We offer welding technology from our partners for various processes, including welding power sources, wire feed systems, laser optics, and automation tools for replacing wear parts. We provide vendor-neutral advice, integrate the interfaces, and carry out commissioning on site if desired.



## Our References

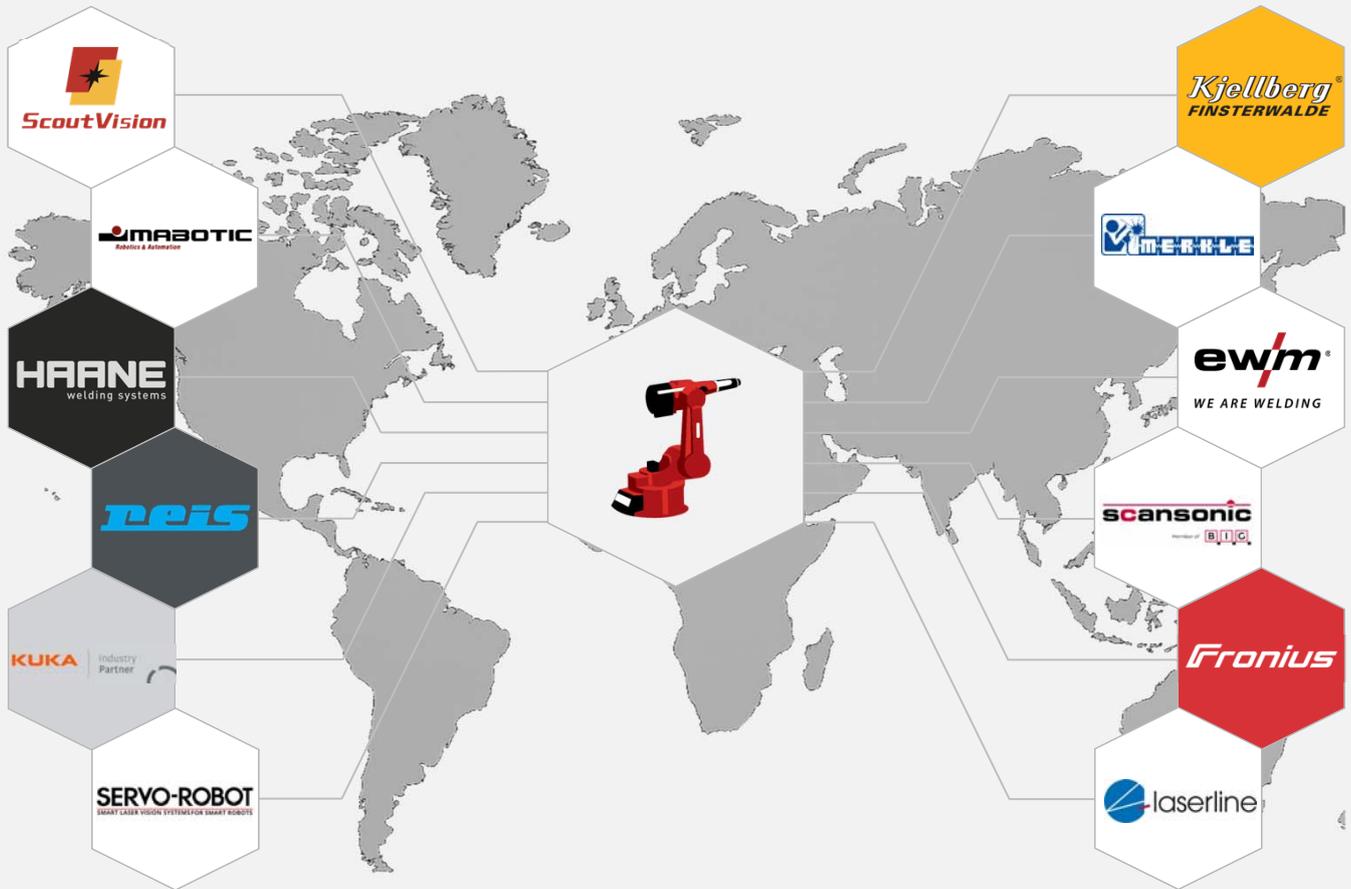
Our customers include small and medium-sized companies, as well as large corporations operating globally, from the metal, photovoltaic, and packaging industries.

Our customers are primarily manufacturers and suppliers from the following sectors:

- Automotive and commercial vehicle manufacturing
- Shipbuilding
- Rail vehicle manufacturing
- Agricultural machinery manufacturing
- General plant and steel construction

Additionally, our customers include manufacturers of heating systems, foundries, research institutes, and universities.



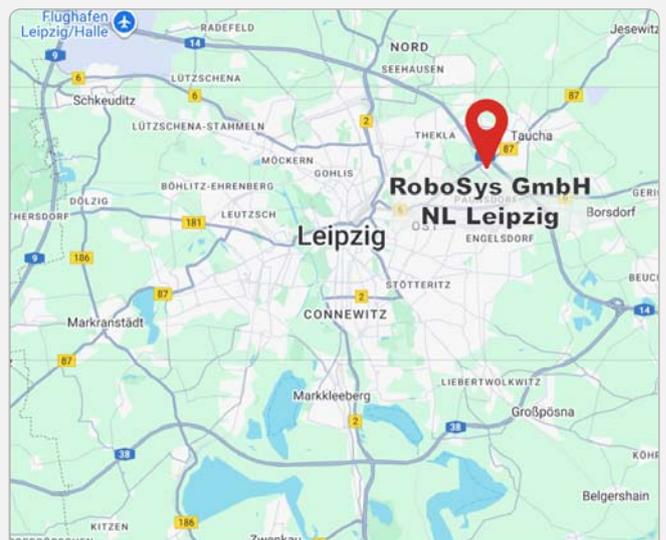


## Our Locations



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### BRANCH OFFICE LEIPZIG

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