Automation for stable and efficient testing and production processes

Custom automation technology and special-purpose machines — from fixtures to complex robotic cells.



HeMaTech develops customer-specific solutions in custom machine building — from test and assembly automation through part handling to marking.

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Good engineering starts with the right question

Dear Customers and Partners,

No two production lines are alike. That is why, for us, a good automation solution doesn't start with a finished machine, but with a clear understanding of your requirements.

We develop custom solutions where standard concepts fall short. We support you from technical coordination through mechanical design, programming, and assembly to commissioning — and afterward, we remain a reliable partner for spare parts supply and technical service.

To do this, we combine many years of machine building experience with short lines of communication and direct technical collaboration.

We look forward to solving your automation challenge.



Mark Hellerich

Managing Director
HeMaTech Automatisierungstechnik GmbH & Co. KG



> Our commitment: custom machines that perform reliably in daily operation and are optimally matched to your production processes.

Custom machine building and automation since 1992

Machine building, process expertise, and hands-on implementation from one source.

Over 30 years
of experience in assembly automation and custom machine building

Schwaikheim
Development and production at our site in Schwaikheim near Stuttgart

ISO 9001:2015
Certified quality management and documented processes

All under one roof

- Project planning
- Mechanical design
- PLC programming
- Assembly
- Commissioning
- Spare parts supply and service

Starting out in assembly automation, HeMaTech has grown into a specialist in custom machine building. Today, we create automation solutions for demanding industrial testing and production processes.

From manual fixtures to complex robotic cells, we combine engineering with hands-on implementation.



Automation for your testing and production processes

Six service areas. Individually planned.

01 Test automation

Automate test processes and integrate them reliably into production.

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02 Assembly automation

Automate assembly, joining, and handling processes.

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03 Parts feeding & handling

Feed, separate, position, and transport components reliably.

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04 Laser marking & identification

Mark parts unambiguously and enable complete traceability.

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05 Custom machines & robotics

Develop custom machines, robotic cells, and fully linked systems.

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06 Leak test systems

Integrate leak testing, from manual test stations up to fully automated systems.

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Automating test processes reliably

From single test stations to fully automated test systems.

We combine test methods, part handling, controls, and process monitoring into custom test solutions for your production.

Possible test methods and functions

- Leak and flow testing
- Functional and electrical testing
- Vision, dimensional, and presence inspection
- Test data acquisition and documentation
- Automatic pass/fail part sorting

Test stand for testing filters with an immersion tank



Special expertise

Ultrasonic testing

In non-destructive testing, we combine process knowledge built up over many years with custom automation — from selecting the right test method to integrating it into the production flow.

Cooling and ultrasonic test system for storage tanks



Looking to automate your testing?

Talk to us about your requirements — we will develop the right solution for your test process.

Automating assembly processes cost-effectively

From assisted workstations to fully automated assembly systems.

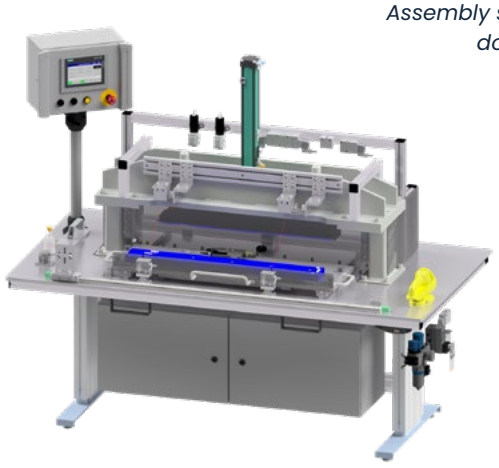
We automate recurring assembly and joining processes and always consider the entire workflow — from part feeding and positioning to process monitoring.

Our solutions include

- Manual and semi-automatic assembly stations
- Fully automated and linked systems
- Pressing, press-fitting, and joining processes
- Cold shrink-fitting and screwdriving applications
- Workpiece carrier, transfer, and handling systems

We take accessibility, maintenance, and possible future expansions into account.

Assembly station for door panels



Assembly system for joining inserts into axle parts



Looking to automate your assembly process?

Together, we will develop a solution that fits your workflows and requirements.

Stable automation starts with the flow of parts

Feeding. Separating. Positioning. Transferring.

We develop systems that reliably supply components to the next production step and connect individual processes with one another.

Our solutions

- Magazine loaders and palletizers
- Separating and feeding systems
- Part storage and buffers
- Pick-and-place and robotic handling
- Part transfer and oriented part presentation

Magazine loader for ceramic medical products



Depending on the application, we combine feeding and handling with sensors, vision systems, or robotics.

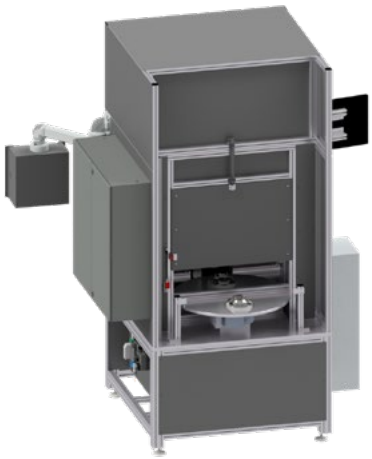
Looking to optimize your part flow?

Talk to us about the right solution for part feeding, handling, and positioning.

Mark. Identify. Trace.

Laser marking integrated directly into the production process.

We integrate industrial marking systems into individual workstations and automated production systems.



Laser marking system for automotive components

Possible applications

- Serial number and batch marking
- Data Matrix and QR codes
- Human-readable text
- Permanent part marking
- Identification and traceability

Marking can be implemented as a standalone station or combined with handling, testing, and other process steps.

Looking for the right marking solution?

We advise you on how to integrate laser marking and traceability into your production process.

Custom machines for individual production tasks

When standard solutions fall short.

We develop customer-specific machines and combine mechanics, control technology, robotics, handling, and assembly and test processes into one integrated solution.





Our range of services

- Special-purpose machines and production cells
- Robotic cells
- Test and assembly systems
- Linked production systems
- Feeding and transfer systems
- PLC-controlled automation

New builds and expansions

We support the entire project, from concept and engineering through assembly and commissioning. Existing systems can also be expanded or adapted to new requirements.

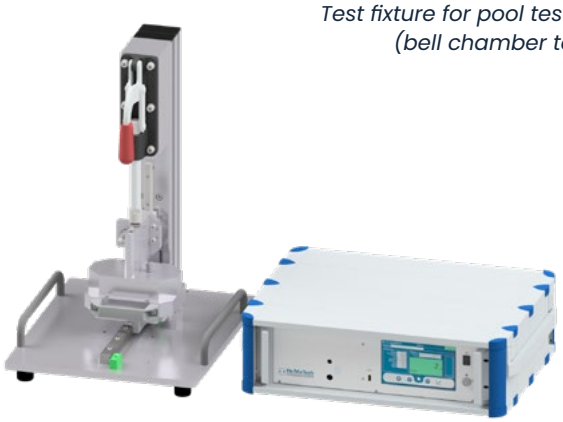
Need a custom machine?

Talk to us about your production task and your requirements.

Leak testing integrated into the production process

From manual test stations to fully automated inline systems.

We develop leak test systems in which the test process, fixture, handling, and automation work together as one complete system.



Test fixture for pool testers (bell chamber test)

Possible system concepts

- Manual and semi-automatic test stations
- Fully automated leak test systems
- Inline and linked test stations
- Automated part handling
- Robotic cells
- Custom test systems



Test station for die-cast housings



Immersion tank for underwater visual inspection

Planning automated leak testing?

Talk to us about your test application — we will develop the right solution for your process.

Quality starts long before commissioning

Structured processes and documented workflows form the foundation of our automation solutions.

Already during development and implementation, we focus on:

- Maintenance- and service-friendly designs
- Transparent documentation
- Clear operating concepts
- Reproducible processes
- Customer-specific quality requirements

Technical acceptance and relevant specifications are considered for each project.

Quality management to ISO 9001:2015

HeMaTech Automatisierungstechnik is certified to ISO 9001:2015.

The certificate and further documentation are available at www.hematech.de.

Automation for a wide range of industries

It’s not the industry alone that matters — it’s your production task.

Our solutions are used in a wide variety of industrial sectors, including:

- Automotive & commercial vehicles
- Machinery & plant engineering
- Medical technology
- Energy & drive technology
- Packaging technology
- Industrial automation
- Manufacturing & assembly technology



Typical applications

From plastic and die-cast parts to housings and connectors, all the way to assemblies and pressurized components.



Your process is what counts

Whether handling, assembly, testing, or a complete production line: it’s the requirements of your process that matter.





Project insights

Experience proven in real projects

Selected automation solutions from real-world industrial practice.



Plastics technology

Packaging system for oil drain plugs

Reinert Kunststofftechnik, Baden-Württemberg

Challenge: Meet the end customer's fixed packaging specification within a target budget.

Solution: We developed a concept as early as the quotation stage and then delivered a turnkey standalone system. It separates the parts and packs each one in a plastic bag with a customer-specific label.

Result: The system runs fully automatically with a cycle time of 6 seconds, or faster on request. The operator only handles material replenishment.



Medical technology

Sintering support stacker

Drücker Steuerungssysteme as general contractor for a medical device manufacturer in Baden-Württemberg

Challenge: Sintering supports for firing medical ceramic parts had to be assembled from individual components into an ordered stack.

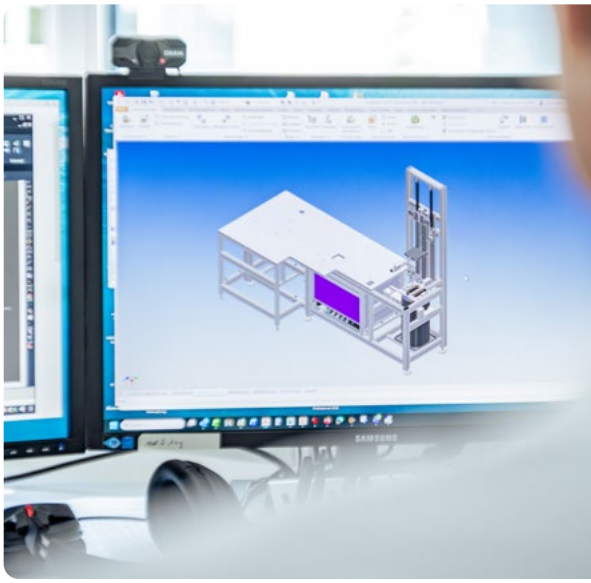
Solution: We built a stacking cell with 3-axis handling and a tool changer and linked it to the downstream machine via a discharge conveyor.

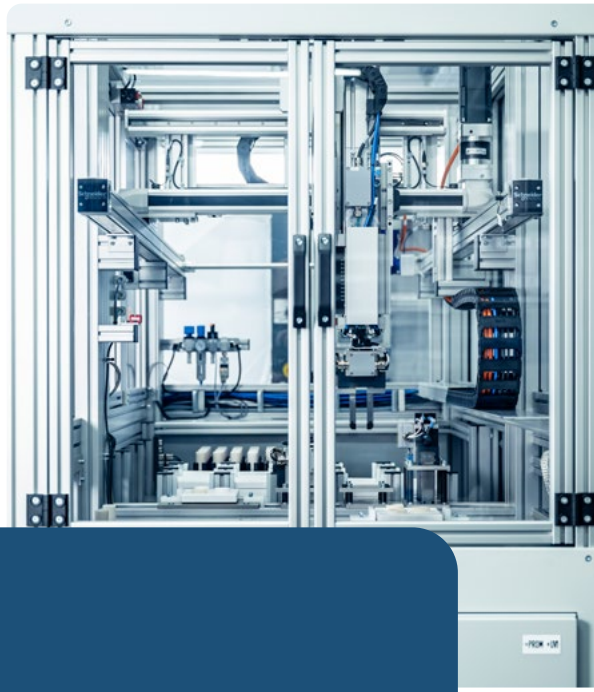
Result: The cell picks all individual parts fully automatically and handles various stacking patterns. The operator only takes care of material logistics.

From the initial task to the finished system

Custom solution. Structured project process.

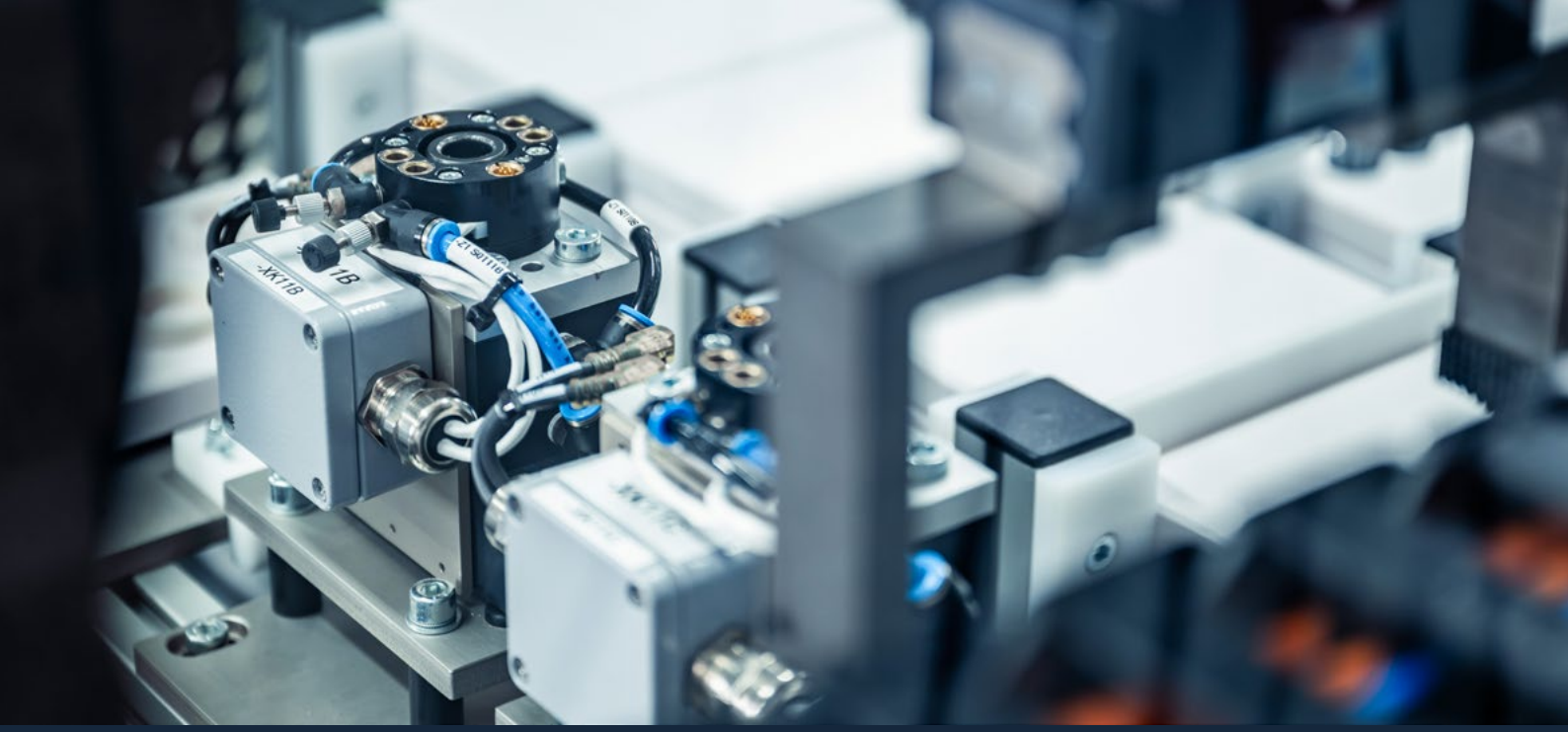
1. **Inquiry & requirements**
   Clarify requirements and boundary conditions.
2. **Analysis & concept**
   Check feasibility and develop a solution approach.
3. **Project planning & quotation**
   Define the system concept in detail.
4. **Engineering**
   Mechanical design, electrical planning, and PLC programming.
5. **Build & commissioning**
   Mechanical and electrical implementation.
6. **Factory acceptance & delivery**
   Test and fine-tune the system and install it at the customer's site.
7. **Service & further development**
   Support, modifications, and future expansions.





Planning your next automation project?

Talk to us about your project — from the first idea to the finished system.



You bring the challenge.
We build the right automation.

Whether it's a new automation solution, the further development of an existing process, or a custom machine: talk to us about your requirements.

Contact

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