



Modellbau Theven

Your manufacturer for special machine construction.

Quality | Precision | Reliability

How we can help you - All services at a glance

Benefit from our Expert Knowledge:

We will be happy to advise you and work with you to find a solution that perfectly meets your requirements. Contact us! Together we can develop your solution for the future.

Gauge Construction

- + Measurement recordings
- + Test control devices
- + Machining fixtures
- + Testing device End of Line test stands

Mechanical Engineering

- + Special mechanical engineering
- + Jig and fixture construction

Automation Technology

- + Robot gripping systems
- + Palletizing systems
- + Robot screw driving systems
- + Plant engineering

Model, Mold & Tool making

- + Body modeling
- + Prototyping
- + Foam tools
- + Laminating and edge folding tools
- + Forming tools
- + Waterjet switching

Services & Support

- + 3D printing for prototypes, small series and functional components from 24h.
- + CAD CAM programming
- + 3D coordinate measuring technology
- + CNC milling
- + Metal construction&locksmith work

Automation Technology, Model, Mold and Gauge construction

As a manufacturer for mold making, gauge construction and mechanical engineering, Modellbau Theven also specializes in automation technology and robotics.

Precision, quality and reliability play a decisive role for us - both in the attitude towards our work and in every single piece that we produce for you. As a modern company, we always work with the latest technologies and are therefore always on an equal footing with our customers, who themselves are often innovative pioneers in their industry.



Your advantages when working with Modellbau Theven:

- + Individual solutions for complex requirements.
- + A wide range of services.
- + Short processing times.
- + High flexibility.
- + Small series and unique pieces. Long experience.
- + Fixed contact person.

With us, you receive all services from a single source: from planning to 3D-simulation and the prototype construction up to the programming of the control system, the creation of the robot environment and the maintenance after commissioning.

Modellbau Theven – Specialist for:

- + **Automotive industry**
- + **Building materials industry**
- + **Medical Technology**
- + **Food and packaging industry**
- + **Household appliance manufacturing & goods industry**



Gauge construction with highest Precision and Stability

We manufacture stable measuring fixtures, test control fixtures and machining fixtures for precise control processes of complex parts and system components. Our gauges are manufactured according to the principles of highest precision and stability. Because these features are a basic requirement for dimensionally accurate production.

As a manufacturer of inspection gauges, we develop and manufacture gauges according to your specific requirements so that you can control complex parts and system components within the framework of rational and at the same time high-quality production monitoring.

Here, modern 3D technology in design and production guarantees the problem-free insertion and removal of the components and enables the production of complicated contours.

Reliability as the most important criterion

Our individual and assembly gauges, testing and processing devices are used in the various product areas and development processes. Our test gauges support you with their measurement data in:

- + Concept creation
- + Construction
- + Single part production
- + Assembly
- + Validation

We manufacture our test gauges from aluminum, plastic or steel for all areas of application that require exact measurement or function control.

Our individually created gauges make it possible to check product parts or entire products quickly, reliably and accurately. Within the scope of quality assurance, our gauges can be used to determine manufacturing tolerances, accurately fit production parts are created and visual impressions are made measurable.

We manufacture measuring and testing gauges for the following industries:

- + Household goods industry
- + Medical and health technology
- + Automotive and vehicle industry



Special machine construction for various industries

We manufacture individual working machines according to your specifications. With us you get complete solutions from one source - for your individual needs. Our special machines are used in various industrial fields, such as for example the vehicle and automotive industry, the construction industry, medical technology and the food industry.

Our services as a manufacturer of special purpose machines range from development and design to production and assembly to commissioning at your site.

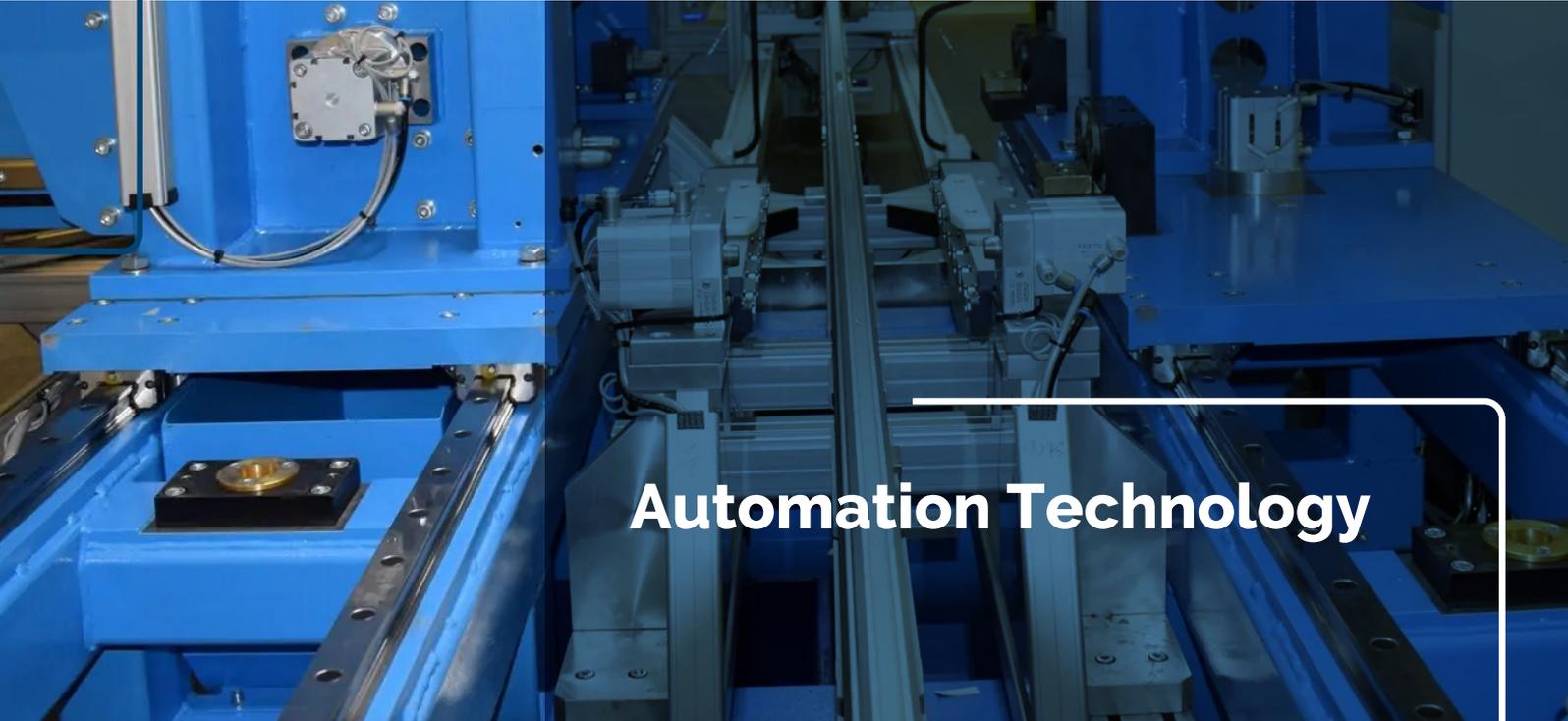
Whether you need a single assembly workstation or an entire assembly line: We supply you with complete solutions from a single source - individually manufactured according to your requirements. With us you get for your production processes:

- + **Special machines and assembly devices made to order.**
- + **Individually manufactured operating tools.**
- + **Processing machines.**
- + **Assembly workstations and fully automated assembly lines.**
- + **Automated test systems "End-of-line test benches".**

We supply the appropriate control software at the same time

Of course, we also supply you with the control software.

Because special machines need a specially manufactured control software for individual use. As a manufacturer of special purpose machines, we develop and program the appropriate software and integrate it at the same time. Thanks to simple visualization - if possible - by means of a touch screen, our machines are uncomplicated to operate and you and your employees can quickly learn how to handle the new work equipment.



Automation Technology



Automated assembly lines and assembly lines with complete environment.

In addition to the individually manufactured robots, we supply you with the entire assembly line, production line and robot environment including all elements. For automated plants, we supply you not only with the actual robots but also with the appropriate shelters, conveyor lines, charging and discharging units as part of a highly effective safety concept. Besides the control system, we also program the required light barriers, barcodes and higher-level operating systems.

Automation gives you time savings, reliability and extended production times. Due to the economical way of working with accelerated operations and the ability to process larger orders in a short time, the investment for automation usually pays for itself after two to three years.

Your advantages at a glance

- + Our machines work reliably - if necessary, 24 hours a day, 7 days a week
- + You can therefore manufacture quickly and precisely even with a high order situation without having to fear that your employees will be absent due to illness.
- + In this way, the costs are amortized within a few years and enable you to increase your earnings with improved working conditions for your employees

Individual model, mold and tool making

Customized tools, molds and models from design and prototype to commissioning

We supply custom-made products to meet your requirements: from functional model making and prototype construction to tool making for foaming, laminating and edge folding tools. All our work are made to order - for your individual needs. We deliver across all industries according to your requirements.

Modellbau Theven specializes in:

- + Functional models
- + Body modeling
- + Prototyping
- + Foam tools Laminating and edge folding tool
- + Forming tool
- + Waterjet tray

All our work is made to order - for your individual needs. We create as a tool making manufacturer - depending on Tasks - prototypes for individual components, individual functions or complete machines in the various industries. Not only in the automotive industry models are needed for the production of series components. As a tool making manufacturer we also create machining jigs:

- + for the series production of automotive
- + suppliers for commercial vehicles
- + for the agricultural technology
- + and many other industries



Further services & support for our customers

In addition to the services already mentioned, we offer the following services to our customers:

- + 3D printing in aluminum strength for prototypes, small series and functional components.
- + CAD/CAM/CNC technology: from design to CAD/CAM programming to CNC manufacturing in 3D.
- + 3D coordinate measuring technology: From the measurement of manufactured components to the preparation of measurement reports.
- + CNC milling: Three-dimensional CNC milling of your construction or spare parts made of steel, aluminum or plastic.
- + Metal construction locksmith works: Welding work, repair work or steel construction work including planning, drawing and manufacturing.

Certainly, you will receive from us all the work on the latest technology.



Industry Focus

Our customers come from a wide range of industries. Here you can get an overview of our work by industry:

Automation in the Automotive Industry

The demands in the automotive industry remain high. Only those who rely on automation and special machines in the industry today can survive. We support you with automation technology, robotics, gauges, plant engineering and special machine construction for the automotive industry. All our robots, gauges, special machines and plants are custom-made for your company. With us, you receive all services from a single source - from planning to development, prototype construction, series production and programming of the control and safety elements.

Our services in the automotive industry:

- + Gauge construction, measuring and testing devices "End-of-line test benches".
- + Special machines and fixture construction.
- + Assembly workstations and fully automated assembly lines.
- + Model, mold and tool making (prototyping, laminating tools, waterjet shells).
- + Robot handling and automation technology.

Automation in the Building Materials Industry

The building materials industry often involves moving heavy loads and high-precision work. The interaction between man and machine must be cleverly designed. With us, you not only get the individual robot, such as the palletizer for fast, precise pallet loading with a uniform pallet pattern, but also the entire robot environment, including the safety concept and integration of the robot into your operating system. We support you in automation in the construction industry and design and manufacture automation technology in individual production according to your requirements.

Special machines in the Pharmaceutical Industry and Medical Technology

Accuracy and safety are the top priorities in the field of pharmaceutical and medical technology. Our systems and special machines can be used in many areas of healthcare, the pharmaceutical industry and pharmacies. For these industries we manufacture mainly:

- + Palletizer and robot gripper
- + Special machines
- + Packaging machines
- + Tools and molds

Automation technology in the Food and Beverage Industry

Packaging, sorting and picking play a major role in the food and beverage industry. Only if these processes are efficiently value creation and quality can be ensured. Robots in the food industry enable optimized working conditions, economical production, precision, speed and optimal control in small businesses such as bakeries and medium-sized companies, as well as in industrial operations. By automating individual work processes, you can optimally plan and expand your production. With us you do not get standard solutions, but individually manufactured and customized working equipment. We manufacture for you:

- + Beverage crate robot.
- + Palletizing systems for beverages, potatoes, fruit, vegetables, cartons & bags.
- + Packaging machines and packaging lines.

Special machines in the Packaging Industry, for Logistic and for Household Goods

Robotic grippers and palletizers are indispensable helpers effective production processes in modern plants. The packaging industry benefits greatly from the efficiency of automate systems. We manufacture - according to your needs individualize industrial robots for your respective production process, for example:

- + Robot gripping systems for household goods and in the Packaging industry.
- + Robot screw systems in the household goods industry.
- + Robot gripper and palletizer for cartons.

How does a project with Modellbau Theven work?

Every project at Modellbau Theven is individual. In order to get to know your requirements, there is always a detailed initial discussion. This is followed by the determination of requirements. Your product idea is recorded in detail in the design meeting - you will have a designer and project manager as a fixed contact person right from the start.

In the design meeting, the exact task is defined for our design engineers. This is followed by the 3D simulation of your new robot or special machine

In order to be able to visualize all the functions of your new robot or special machine, we create your new machine as a three-dimensional project design. In the presentation meeting, we receive your change requests and implement them digitally.

For open questions, we create a light weight prototype and simulate individual functionalities and digital designs.

After the production release, the manufacturing takes place. We purchase standard components and the basic robot and manufacture special components and tools in our own CNC workshops. We not only supply the robot, but also the entire robot environment, including the safety concept and the necessary documentation for accident - free interaction between man and machine.

We program for your robot or your new special machine not only the control software, but also required light barriers, barcodes and the appropriate communication with your operating system.

After acceptance of your new robot or special machine, we assemble your new automation technology at your site including environmental elements for immediate commissioning.

Afterwards, we will of course be at your disposal with our customer service.

We manufacture all robot tools as individual production in our company and are therefore the right contact for spare parts delivery, maintenance and services, if there is a problem. All machines and installed parts are stored digitally and can be provided by us at any time and at short notice.

Who is behind Modellbau Theven?

From a small company in the field of foundry and car body model construction, we have developed into a specialist in computer-aided development and manufacturing techniques. To this day, our 15-member team of skilled workers is the force for success. Tool makers, model makers, cutting machine operators, programmers, precision mechanics, apprentices and the management all pull together under one roof.

Your contact persons at Modellbau Theven are:



Sebastian Klyn

Managing Director

Commercial Director



Ulrich Theven

Managing Director

Founder of the company



Tobias Theven

Managing Director

Master Precision Mechanic
Management of the CNC
machining department with
TEBIS CAM programming

Customer loyalty is the greatest compliment for us



You would like to learn more about Modellbau Theven and our services? Feel free to contact us for a non-binding consultation.

Contact:

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