

HIGH TECHNOLOGY FOR PLASTIC FORMING AND FINISHING

ONE STEP AHEAD





...one step ahead!

Content





Company
>>> Page 4



Automation
Page 18



Tooling & Mold Making
>> Page 26



One step ahead >> Page 6



Machines >> Page 8



Industries & Applications

>> Page 32



Service & Consulting

>> Page 34

GEISS one step ahead

We are the pioneers of plastic manufacturing in the field of thermoforming and finishing. With us, you are always one step ahead today, tomorrow, and in future.

GEISS AG

Tradition meets innovation

GEISS AG is a long-established company with over 75 years of experience in plastic processing and finishing. As a global leader in thermoforming equipment for plastics and as a high-tech supplier of CNC machines, we continually invest in new drive technologies and energy solutions to stay at the forefront of the industry. True to our motto » one step ahead!, we combine customer orientation, reliability, and innovation to discover the optimal solutions for you - ensuring that you're always one step ahead.



1948 Established



140 **Employees**



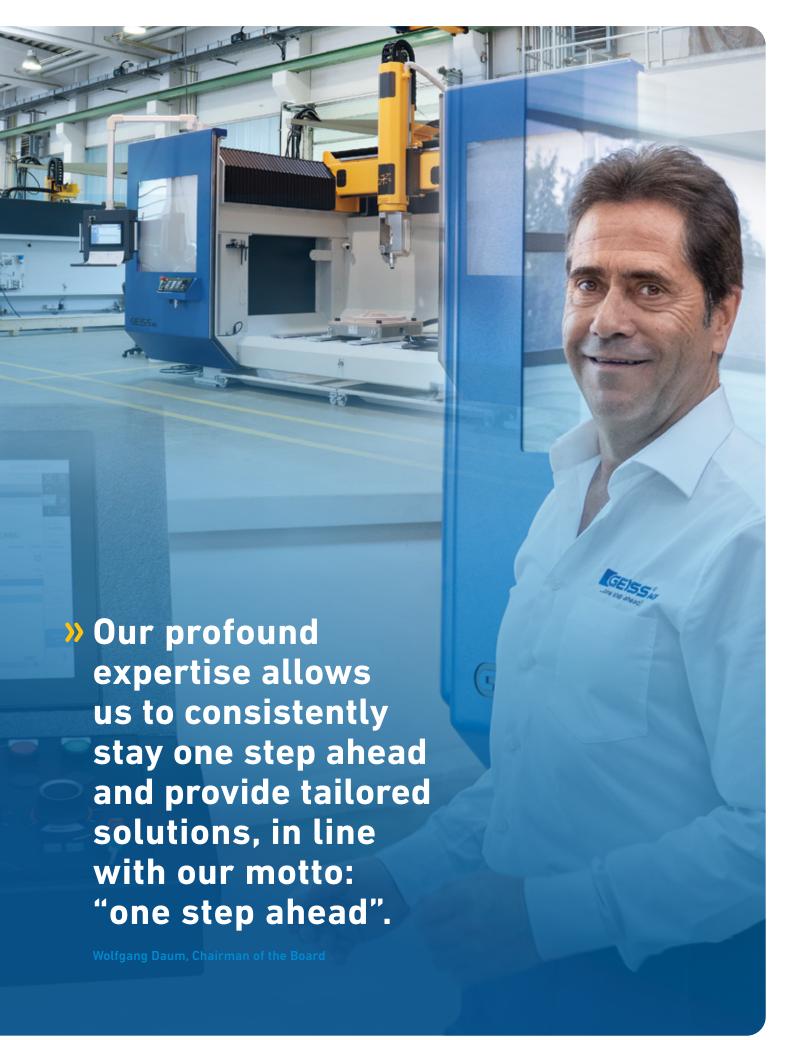
Representations worldwide



>2000 Machines in use worldwide



>20 Innovations & patents



one step ahead

Leading the way with GEISS AG

With GEISS by your side, you not only benefit from a wide range of advantages but also from pioneering technologies. Our continuous innovations ensure your position at the top of your market.

Innovation

Revolutionary drive technology



CNC 10: Fastest and most cost-effective drive using linear motors – shorter cycle times, increased energy efficiency, and more precise machine movements.





precise extraction right at the trimming tool.







Worldwide unique combination

In thermoforming, trimming, and tool manufacturing, GEISS sets industry standards through innovative technologies and unparalleled expertise from one source, captivating customers worldwide.



Innovation

Trimming spindle with double-ended shaft

GEISS ER16: In-house development by GEISS perfectly tailored to our machines.



Partnership as a principle

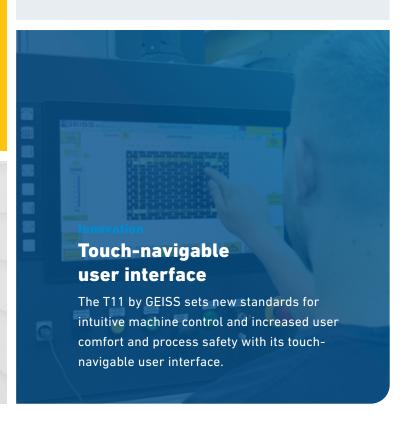
Your projects are our projects. Responsibility, honesty, transparency that's partnership at GEISS.

Innovation

Integration of heating and machine control



Combining both control systems into one unit enhances overall efficiency.







>> In every machine, our expertise and passion are embedded. We don't just create technology; we provide solutions for the future.

T11 Thermoforming Machine

Page 10

Ts1 Thermoforming Machine

Page 13

CNC 10 Trimming Machine

>> Page 14

Horizontal band saw

Page 17

T11 | THERMOFORMING MACHINE

The giant in thermoforming

Experience the revolution in thermoforming with the **GEISS T11 Thermoforming Machine.**

The T11 represents GEISS's cutting-edge technology in thermoforming. As our most powerful thermoforming machine, it impresses with shortened machine cycles and a compact design. Additionally, the spacious interior accommodates numerous GEISS options.

Benefits



Smart setup

After entering tool parameters, the machine adjusts itself automatically.



Highest efficiency

Fast cycles increase your production capacity.



Individual heater control

Independent control of both heater banks.



Low energy consumption

Efficient energy usage with the highest productivity.



Numerous configurations

We tailor the machine to your individual requirements.



More details on our website

www.geiss-ttt.com/en/t11



Highlights



Short heating time









Direct drive in all





Centralized cooling



Single heater element control

In both top and bottom



NEW CONTROL PANEL FOR THE T11

As easy as a smartphone

The touchscreen interface and the lifelike representation of all machine components make control a breeze: simply tap on the desired component and make adjustments in no time. Inputting tool dimensions is sufficient, and the T11 takes care of the rest, from final positions to travel paths. The innovative heating control enables specific heating zones, supported by clear process data visualization.



Touchscreen control

Intuitive operation through a modern touchscreen interface.



Realistic representation

Detailed display of all machine components for precise control.



Custom display options

Personalized display options for a clear overview.

Ts1 | THERMOFORMING MACHINE

Compact power

The compact Ts1 thermoforming machine is the powerful "little sister" of the T11, specialized in small components without compromising on performance.



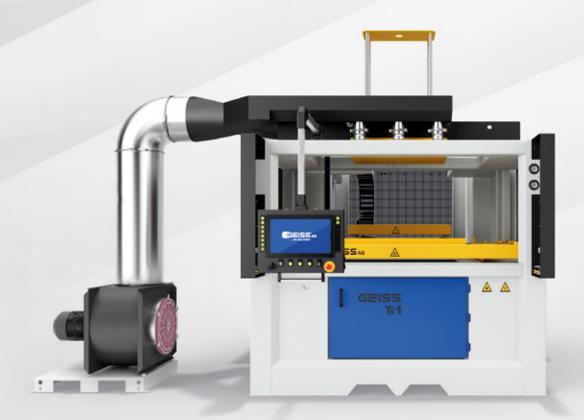
Same efficiency as T11

With identical drive systems, the Ts1 achieves the efficiency of the T11.



Compact design

Ideal for small parts and and also for large series.





CNC 10 | TRIMMING MACHINE

The future of **CNC** technology

Discover a new dimension of speed and performance in CNC technology with the trimming machines from GEISS.

Our CNC trimming machines set new standards in terms of precision, flexibility, and efficiency. Our product range includes advanced post-processing centers that can be individually tailored to your specific requirements upon request. Thanks to our parametric design principle, machines can be realized in almost any size.



Benefits



High performance meets high speed

It's the fastest trimming machine on the market, even faster with the option of a linear motor.



Maximum output

Highest productivity and lowest machining costs per workpiece.



Reliable components

Siemens and Rexroth components ensure high machine availability worldwide.



Compact design

With numerous equipment options and individual configuration.



High precision

Thanks to ball screw drives, torque motors and optional glass scales and measuring systems.



Decades of expertise

35 years of experience in the field of 5-axis machines with over 1000 machines built.



Highlights



Trimming spindles & heads

For various challenges.



Ball screws

Highly dynamic in all three main axes X, Y, and Z.



Machine access

Optimal through front doors without an upper crossbeam.



Removable partition

Two separate processing areas in one machine.



CNC Control Technology

Latest state-of-the-art -Siemens SINUMERIK ONE.



All info about CNC 10

www.geiss-ttt.com/en/cnc10





The key to special tasks

Instead of the conventional trimming spindle, there's the option to utilize an advanced ultrasonic cutting unit with an additional NC axis. This unit is specifically designed for silent, chipless operation and effortlessly handles materials that pose challenges for traditional trimming methods.



Noiseless & chipless



Gentle cutting



Unmatched in price and performance

Our CNC 10 Tool-making machines are tailored to your needs. Depending on performance requirements and tool size, various tool change spindles are available. They are excellently suited for a range of materials – from easily machinable wood and Ureol® to aluminum.



Versatile & flexible



High precision

HORIZONTAL BAND SAW

More than just a saw

Our customized horizontal band saws are ideal for trimming vacuum-formed parts and cutting foam blocks.



Seamless integration

Effortlessly integrates into your existing production line.



Angled cuts

Capability for angled cuts in horizontal trimming.





All info about HBS





>> Automation isn't just technology; it's our vision for the future. At GEISS, we're already bringing this vision into your production today.

T11 Automation

>> Page 20

Run MyRobot

>> Page 22

TT-IN-ONE

>> Page 25



Highlights



Robot arm

Highly precise for fast and accurate handling.



Control

Intuitive control panel for the machine and robot.



Integration

Seamless connection between the robot and machines.



Product processing

Automated product ejection and storagafter processing.



Fast heating

Fast heating of the sheet using various types of halogen heating elements



Sheet automation

For loading of plastic sheets for fully auto-



Machine housing

Space-saving for maximum utilization



Stepless adjustmen

Stepless adjustment of window plates and Jamping frames

T11 AUTOMATION

High-performance duo

A combination of top-notch forming technology and state-of-the-art robotics - for optimized handling and revolutionized processes.

With the T11 thermoforming machine, we already set high standards in the field of thermoforming. But with the integration of advanced robotics in the T11 Automation, we take it a step further – true to our motto "one step ahead." In the T11 Automation, we seamlessly combine the top-notch performance of the T11 with advanced robotics.

Benefits



Versatility in perfection

Edge trimming, parts stacking, or handling large components.



Easy control

Intuitive, user-friendly operation without complicated robot programming.



Compact design

Experience maximum performance in minimal space.



Intelligent robotic system

The robot's end positions are determined by the product parameters.



Everything from one source

You only need one reliable point of contact.



All info about T11 Automation

www.geiss-ttt.com/en/t11-automation

Run MyRobot

Robot power of GEISS AG

With our customized automation solution, you can expand your machines with a robotic system or integrate them into a production line.



Highlights



Robot integration

Versatile 6-axis robot on a linear axis.



EOAT (End of arm tool)

Customized gripping systems for precise component handling.



Shuttle table

Side shuttle table for automatic component transfer.

Through the Siemens SINUMERIK function Run MyRobot as an integrated robot automation, we shape your future: Separate robot controls are a thing of the past. Instead, the parametric control offers easy and intuitive adjustment of robot movements. This allows you to experience an unprecedented automation solution tailored to your individual needs.





G-code control

Robot programming using Siemens SINUMERIK "Run MyRobot."



All info about Run MyRobot

www.geiss-ttt.com/en/run-myrobot

Efficiency in every move

The power of Run MyRobot optimizes your manufacturing processes for outstanding efficiency.

Smooth integration into your production system and tailored adaptation to individual workflows are the key focus. With our technology, you can achieve not only increased productivity but also enhanced reliability in production.

Benefits



Complete automation

Automate your manufacturing process for maximum efficiency.



Customized concepts

System concept tailored to your requirements.



Centralized control

No more separate robot controllers thanks to Run MyRobot.



Easy programming

Using G-code in the Cartesian coordinate system.



Flexible robot tasks

Give the robot additional tasks.



Dynamic robotics

Flexible adjustment of motion sequences.

TT-IN-ONE

Fusion of shaping and machining

GEISS's TT-IN-ONE combines the T11 vacuum forming machine and CNC 10 trimming machine into a seamless production solution. Thanks to the sophisticated portal system, thermoforming, finishing, and part handling are efficiently integrated without compromise.



Intelligent programming

High flexibility with programmable suction gripper positions.



Ultimate speed

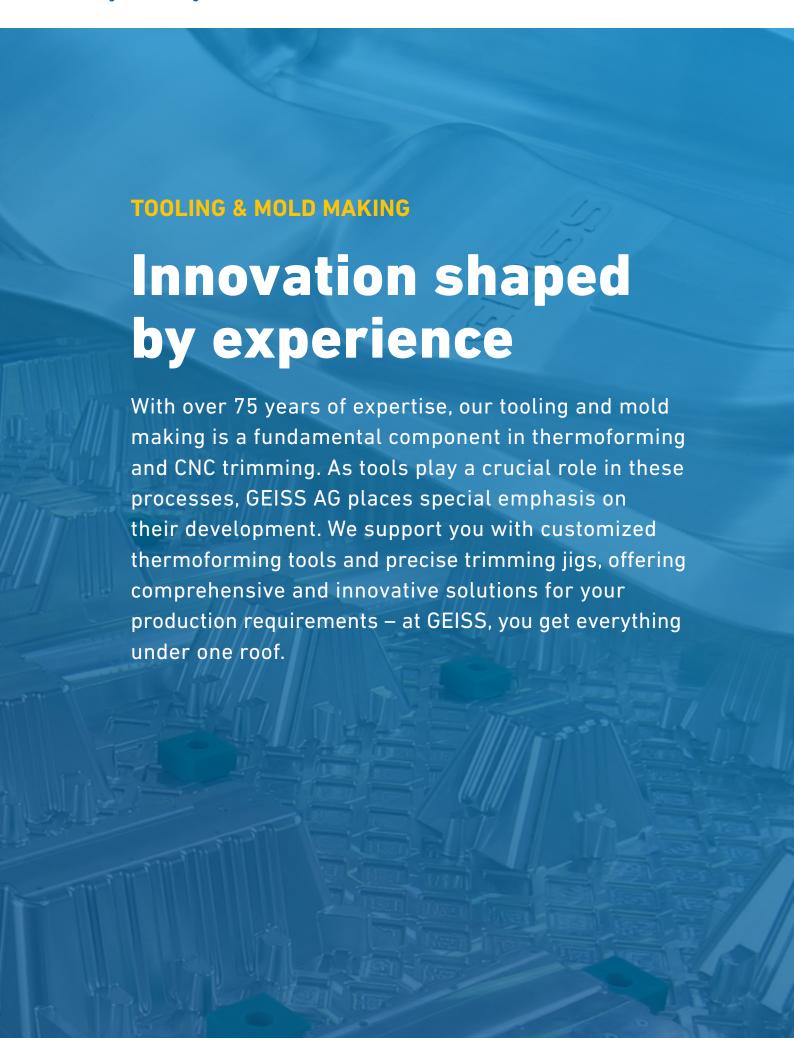
Thanks to linear motors for handling portals and CNC main axes.





All info about TT-IN-ONE

www.geiss-ttt.com/en/tt-in-one





>> With every tool we develop, we continue **GEISS's long-standing** tradition and bring innovation and precision into the hands of our customers.

Thermoforming Tools

>> Page 28

Trimming Jigs

>> Page 30

THERMOFORMING TOOLS

Masterpieces of shaping

The thermoforming tools from GEISS are much more than simple tools. They are your key to precise, efficient, and high-quality products.

Our advanced manufacturing technologies, combined with decades of expertise, allow us to create tools that perfectly meet both technical and aesthetically demanding requirements. Thanks to the versatility of our thermoforming tools, you will always find the ideal solution for every application. At GEISS, you are not just investing in a tool but in a future full of efficiency and excellent product quality.

Benefits



Complexity as standard

Our thermoforming tools master every challenge.



Consistent high quality

Achieved through tempered aluminum tools during production.



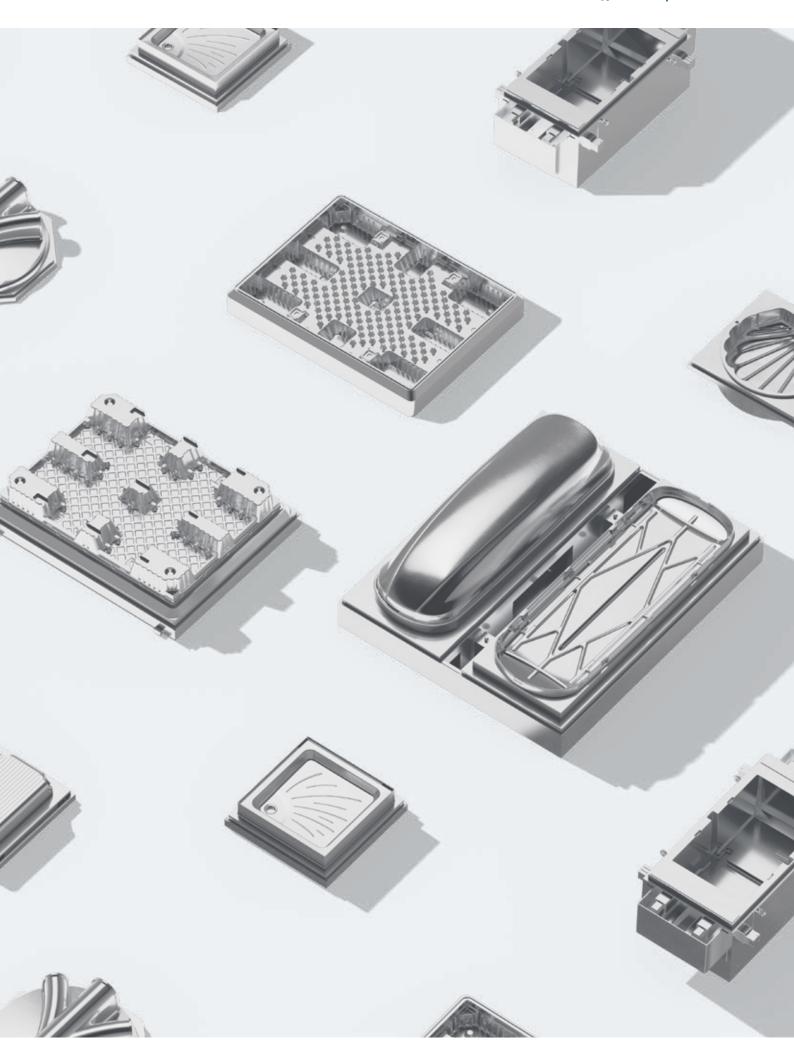
State-of-the-Art technologies

Utilizing 3D CAD development and cuttingedge 5-axis milling technology.



Complete package

Tools and application programs from a single source.







TRIMMING JIGS

For the final cut

With GEISS' trimming jigs, you can trim your thermoformed parts perfectly. Utilize advanced technologies for customized solutions.

In the design of our thermoforming tools, we already consider post-processing, supported by state-of-the-art technology and simulations. Our precise trimming jigs made of materials such as aluminum ensure optimal finishing for every thermoformed part. With our years of experience, we guarantee the highest quality at every step.

Benefits



All-in-one solution

Seamless process from forming to trimming post-processing.



Versatile technology

Use of aluminum, Ureol®, and complex welding constructions as needed.



Precision post-processing

Highest quality through CNC trimming.



Early optimization

Collision considerations directly during tool design.

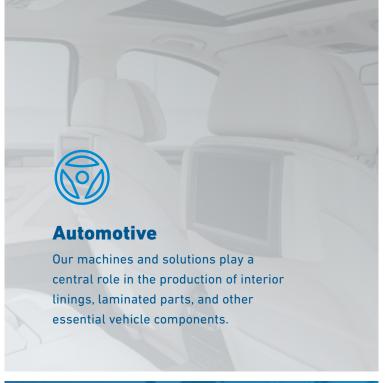
INDUSTRIES & APPLICATIONS

Charting success together

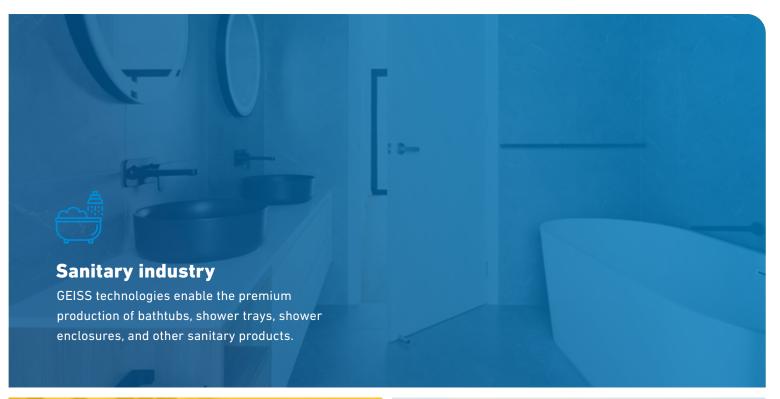
Our expertise in plastic forming and post-processing technology spans across numerous industries, from medical technology to aviation. With our flexible and precise thermoforming machines and CNC portal trimming machines, we provide tailored solutions that meet the specific requirements of each industry.

















Other industries

In addition to the mentioned sectors, our technologies are also revolutionizing others, such as model making, packaging, or sports equipment industry. Learn more through the QR code.



SERVICE & CONSULTING

Taking your production to the next level!

At GEISS AG, we work hand in hand with our customers to optimize production processes and enhance the efficiency of machinery and equipment.

Service at a glance



10-year spare parts guarantee

Long-term availability of spare parts for planning and production security.



Global customer service

First-class, globally available service for all your needs.



Remote service

Fast fault diagnosis and maintenance by telephone or online connection.



Assembly & optimisation

Support with assembly, commissioning and optimisation for seamless integration and peak performance.



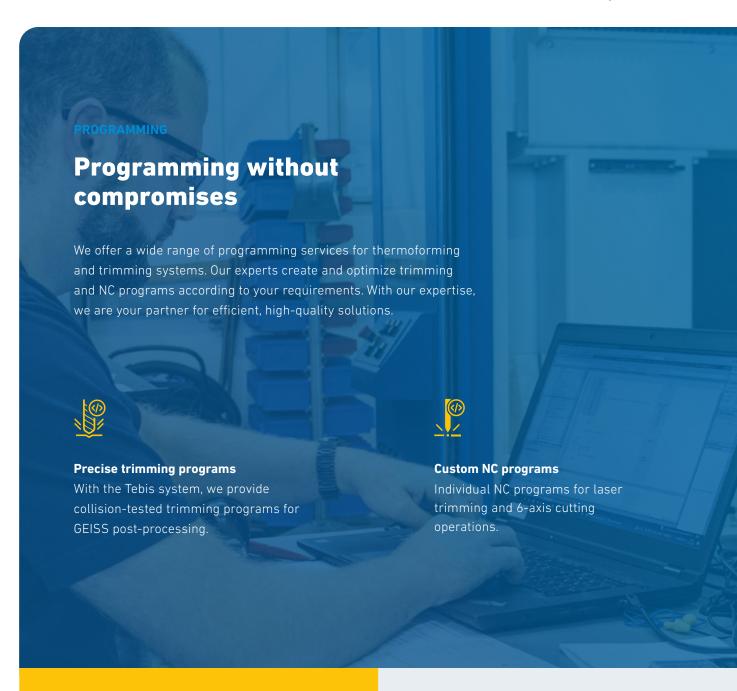
Training & workshops

Practice-oriented training sessions to ensure optimal skill development for your staff.



Repair & maintenance

Replacement of wear parts and comprehensive machine inspections as part of maintenance.



PROCESS OPTIMIZATION

Your production in focus

By analyzing and optimizing your production processes, we enhance efficiency and costeffectiveness. We focus on energy efficiency and resource-friendly solutions. Maximize the potential of your production with us.

PROTOTYPE DEVELOPMENT

Swift realization of your product ideas

With our prototype development and tool optimization, we enhance the efficiency and quality of your production. We reduce development times and ensure production reliability. Elevate your production to a new level with our expertise.

PROJECT WORKFLOW

Your path to the ideal **GEISS** machine.

From the initial inquiry to delivery, we accompany you with our expertise and tailor-made solutions. Let our seamless and efficient process inspire you and set your projects in motion with GEISS.





Jointly defining requirements and preselecting equipment.



Preconfiguration

Swift identification of the optimal solution.



Consultation

Support and individual customization through comprehensive technology consulting.



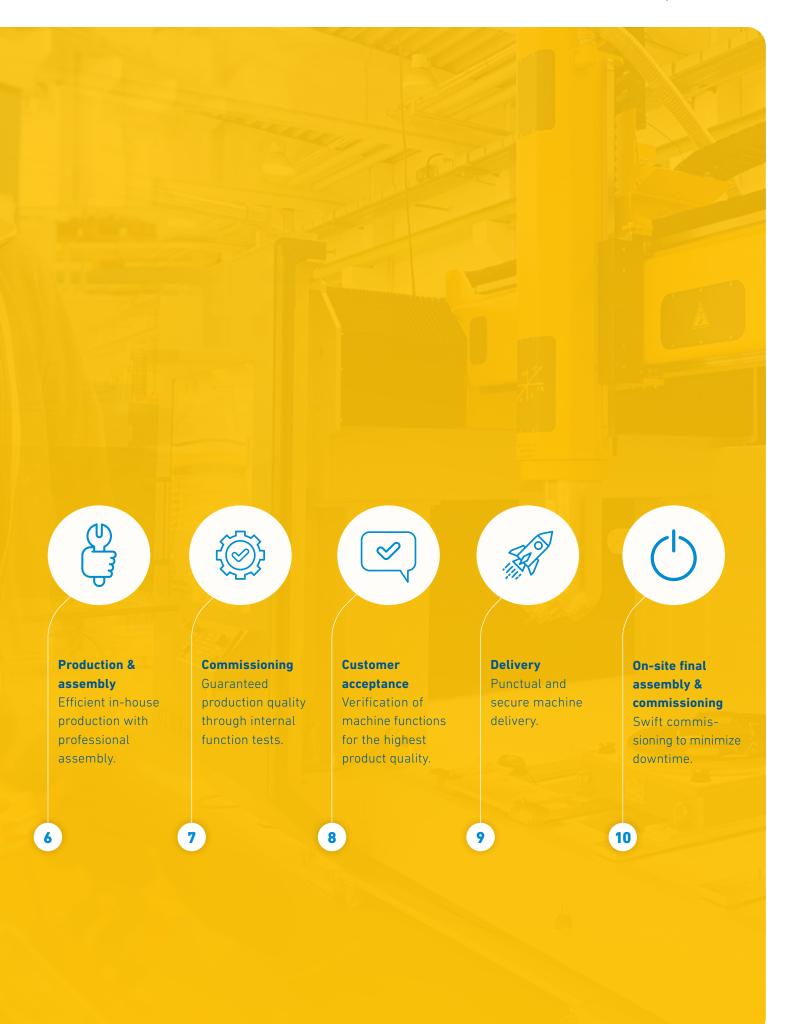
Detailed offer

Transparent pricing without hidden costs.



Production start

Commencement of the project in a timely manner.





Get in touch with us!

Visit us online and find the right contact person for your request.
www.geiss-ttt.com

