FETZEL
Maschinenbau GmbH

MACHINE BUILDING DRIVEN BY PASSION.

Innovation. Precision. Quality.

LAMINATORS
CUTTING MACHINES
CNC CONTRACT MANUFACTURING

FETZEL MASCHINENBAU GMBH

SOLUTIONS WITH ADDED VALUE – FOR CUSTOMERS WITH HIGH STANDARDS



Alois Fetzel (Founder)
Thomas Fetzel (Managing Director)

FETZEL Maschinenbau GmbH is your professional partner for industrial laminating and cutting technology. We manufacture customisable standard machines or develop custom machines tailored precisely to your process. We support you from the initial idea through to the finished product – and continue to assist you with expertise and comprehensive support throughout during operation.

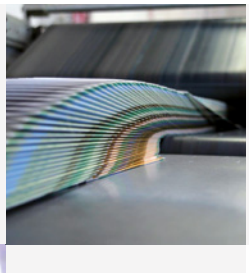
You can also benefit from our expertise in contract manufacturing: using state-of-the-art CNC machining technology, we manufacture high-precision turned and milled parts as individual components or in small production runs. An innovative SLS 3D printing system also enables rapid prototyping and the production of complex components. If required, we support your project from the design stage onwards to optimise both functionality and manufacturing costs.

Discover our engineering expertise in this brochure or during an initial consultation. Meet your dedicated contact person and start your project with a partner committed to your success.

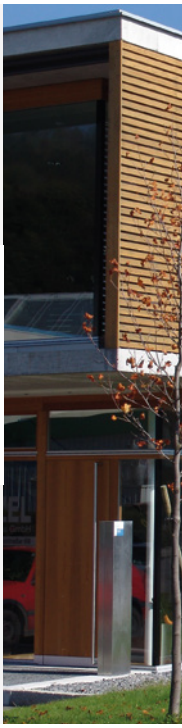
Applications across a wide range of industries

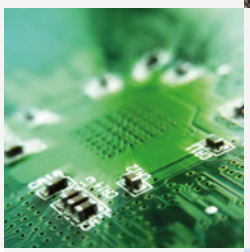


Automotive



Packaging and signmaking





Electronics, energy technology and photovoltaics



Research and development

Mechanical engineering, medical technology and metrology





Sports and lifestyle





OUR PRACTICAL EXPERTISE – YOUR ADVANTAGE

In our application laboratory, we work with you to determine the most reliable laminating or cutting process for your materials. By evaluating a wide range of process parameters, we simulate real production conditions, identify the optimum process and recommend the most suitable machine configuration.

Decades of process expertise, a highly motivated team and a high level of vertical integration form the foundation for outstanding quality at competitive operating costs. SMEs and global corporations alike rely on our expertise.

Our internal processes are continuously optimised. ISO 9001 certification underlines our commitment to uncompromising quality standards and continuous improvement.



PERFORMANCE THAT DELIVERS:

- Customisable machines for laminating and cutting processes
- Consulting services including feasibility studies
- Process development with innovative solutions and cost-effective machine designs
- Maximum precision in CNC machining
- Efficient production planning with real-time transparency across the entire manufacturing process
- Comprehensive support including remote maintenance, spare parts availability, and fast troubleshooting by phone or online

INNOVATION WITH TRADITION

NEW APPLICATIONS – NEW IDEAS

Over the decades, we have continuously evolved – and so have our capabilities. By embracing the latest technology trends, we continue to expand into new fields of application:

- High-quality laminating and cutting of membranes, flexible electronics, RFID tags, touchscreens and photovoltaic films
- Development of transfer processes for fuel cells and electric vehicle batteries
- Fully automated process lines with roll-to-roll processing and intelligent material handling
- Internal process optimisation through pallet changers, bar feeders and collaborative robots in CNC machining
- Additive manufacturing using SLS 3D printing for machine components and rapid prototypes

OUR TEAM – EXPERTS BY YOUR SIDE

Around 30 specialists work hand in hand at FETZEL Maschinenbau. Driven by the pursuit of the best possible solution, we develop agile and cost-effective approaches even for complex requirements.

Flat hierarchies, open collaboration and the flexibility of a modern family-owned company enable us to respond quickly while maintaining a strong customer focus.

From engineering and manufacturing to assembly and administration, our team works in an integrated, efficient and process-oriented manner.

A company with a strong heritage and a clear future

1979 Alois Fetzel founds the contract turning company.

1984 The first laminator for printed circuit board coating is developed.

1995 Thomas Fetzel joins the company as the second generation. Development and manufacturing of laminators and special-purpose machines begins.

2005 Relocation to the current headquarters in Thüringen. The modern facility provides ample space for all business units.

2010 The first CNC complete machining centre is commissioned.





WIRTSCHAFT LEHRE IM WALGAU

KNOWLEDGE THAT MAKES THE DIFFERENCE

As a recognised training company, we offer young people in the region excellent career opportunities while safeguarding our high-quality standards for the future.



2015

- 3D coordinate measuring machine and first collaborative robot for machine loading
- First FDM 3D printer

2018

- 5-axis machining centre with 18-station pallet changer
- Tool management system introduced

2020

- Market launch of the new cutting machine
- Development of the fourth laminator generation

2024

- AI system implementation
- Development of automated laminators and cutting machines
- SLS 3D printer

2026

- Automated cleaning robots
- AI knowledge management
- In-house AI workstation

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Genau aufeinander abgestimmte Produkte ermöglichen es Ihnen, durch einfachste und schnelle Montage professionelle Lösungen in einer riesigen Anzahl unterschiedlichster Anwendungsgebiete zu schaffen.

LAMINATORS. EFFICIENT, MODULAR AND FUTURE-PROOF.

COMPLEX REQUIREMENTS. TAILORED SOLUTIONS.

We develop and manufacture professional laminators for precision film lamination in the electronics, energy technology, medical technology, automotive and research sectors. Our systems reliably process components made of glass, copper, FR4, ceramic, carbon fibre, sheet metal, various plastics, silicon wafers and paper – including under cleanroom conditions.

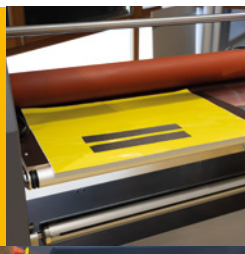
Our laminators offer extensive configuration options to ensure the perfect bond between multiple films or between films and substrates. Should a standard configuration not fully meet your requirements, our engineers work closely with you to develop a tailor-made solution.

MODULAR DESIGN. STABLE OPERATING COSTS FOR THE LONG TERM

Our modular platform adapts flexibly to changing production requirements. Whether introducing new materials, upgrading to roll-to-roll processing or transitioning from manual to fully automated production, these enhancements can be implemented at any time.

This minimizes production downtime, reduces engineering costs and protects your investment throughout the entire machine life cycle.













Our laminators – your benefits

- Wrinkle-free and bubble-free film lamination – even on demanding substrates
- Significantly lower force and energy consumption than conventional hot presses
- Individually configurable process parameters for pressure, temperature, web tension, speed, roller gap and roller surface
- Integrated recipe management for storing process settings
- Intuitive, user-friendly touchscreen interface
- Upgradeable standard models with scalable automation levels and precisely adjustable process parameters
- Our modular platform provides maximum flexibility.
- Communication with upstream and downstream equipment via digital or analogue interfaces, including Profinet or OPC UA
- Custom solutions for complex applications

MODEL VARIANTS

SDL40:	400 mm working width
UVL60:	600 mm working width
SOL80:	800 mm working width
UXL125:	1,250 mm working width
UXL160:	1,600 mm working width
SOL:	Custom configuration

Laminators –
High-Performance Industrial Systems
for a Wide Range of Industries





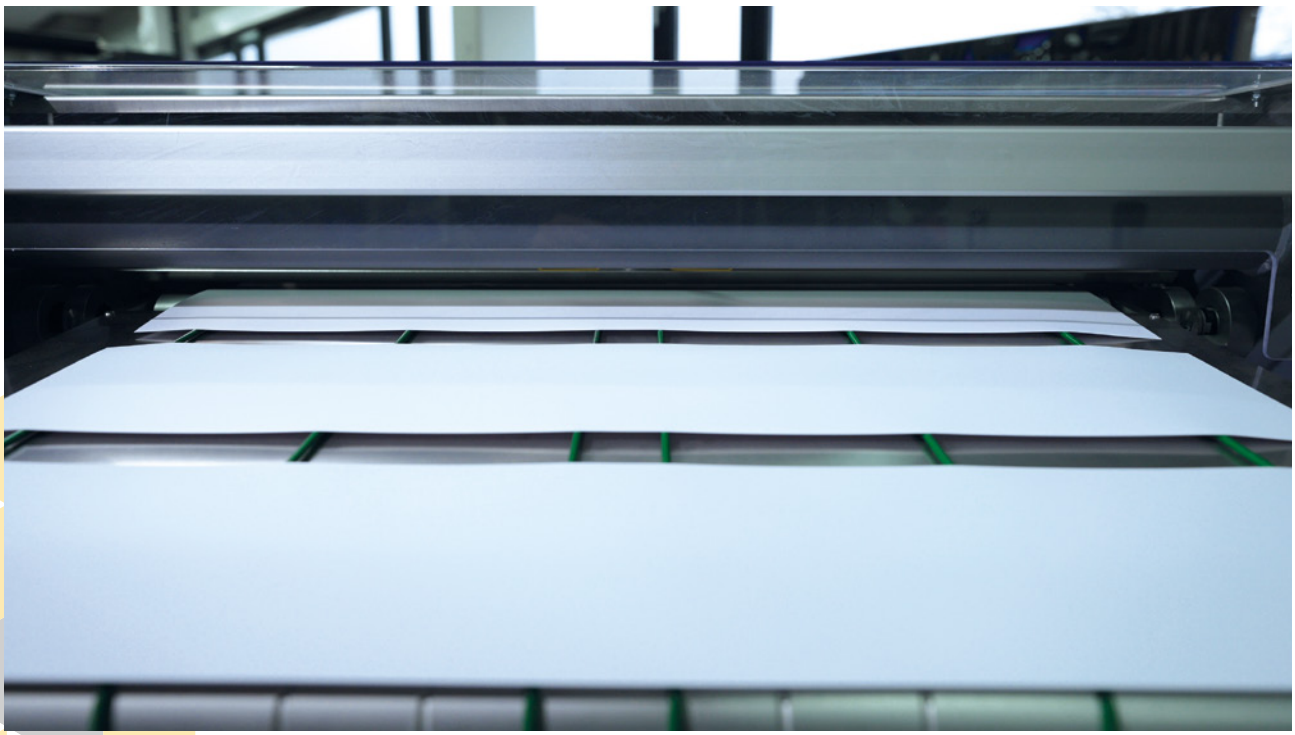
CUTTING MACHINES.
PRECISE. MODULAR. RELIABLE.

A WIDE RANGE OF MATERIALS. TIGHT CUTTING TOLERANCES.

The GSC2 Guillotine Speed Cutter combines high performance with a robust machine design. Its self-sharpening guillotine blade delivers fast, exceptionally clean cuts. The machine can be operated as a stand-alone system or be seamlessly integrated into existing production lines, making it ideal for the electronics, automotive, graphic arts and packaging industries.

As standard, the GSC2 processes a wide range of polymer films (PP, PE, LDPE, PET and PVC), paper from 18 to 500 g/m^2, nonwovens and membranes. It also reliably cuts demanding products such as conductive films, photovoltaic components and printed circuits.

The modular design keeps the initial investment low while ensuring long-term flexibility for future product requirements.









Our cutting machines – your benefits

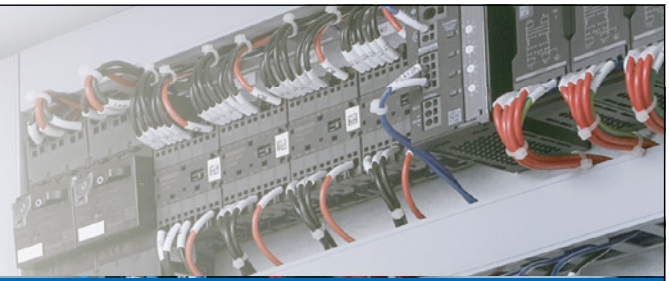
- Wide range of cutting programs with precisely adjustable process parameters
- Available as a stand-alone solution or for seamless integration into existing production lines
- Compact, robust machine design
- Self-sharpening guillotine blade
- Optional OPC UA interface for integration into higher-level control systems
- Intuitive, user-friendly touchscreen interface
- Selectable left- or right-hand operator side
- Standard cross-cutting, optional longitudinal cutting in the web direction
- Reduced process costs through high cutting speeds, precise process control and flexible machine settings
- Numerous upgradeable modules
- Custom solutions available

MODEL VARIANTS OF THE GSC2 GUILLOTINE SPEED CUTTER:

- Inline version for integration with other machines, such as a laminator
- Versions with unwind unit for cutting roll-fed materials
- Extensions for outfeed, stacking or rewinding long products
- Version with integrated cold laminator for applying and cutting protective films

Cutting machines
for the printing industry and
industrial applications

egon böhler
TECHNIKBeschaffen



Produkte und Lösungen für
Schaltschrankbau
Maschinenbau
Automation

CNC CONTRACT MANUFACTURING AND SLS 3D PRINTING

PRECISION COMPONENTS – MANUFACTURED TO YOUR SPECIFICATIONS

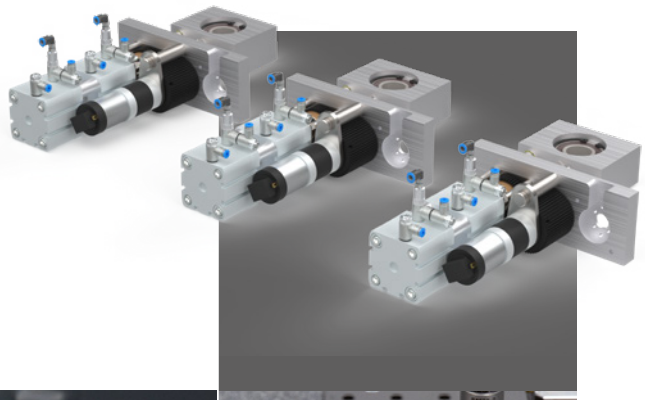
For the metrology, energy technology and mechanical engineering industries, as well as other demanding sectors, we manufacture components precisely to your specifications. Using state-of-the-art CNC turning and milling machines, complete machining centres and an SLS 3D printing system, we deliver short lead times, high precision and reliable process performance – from prototypes to small production runs.

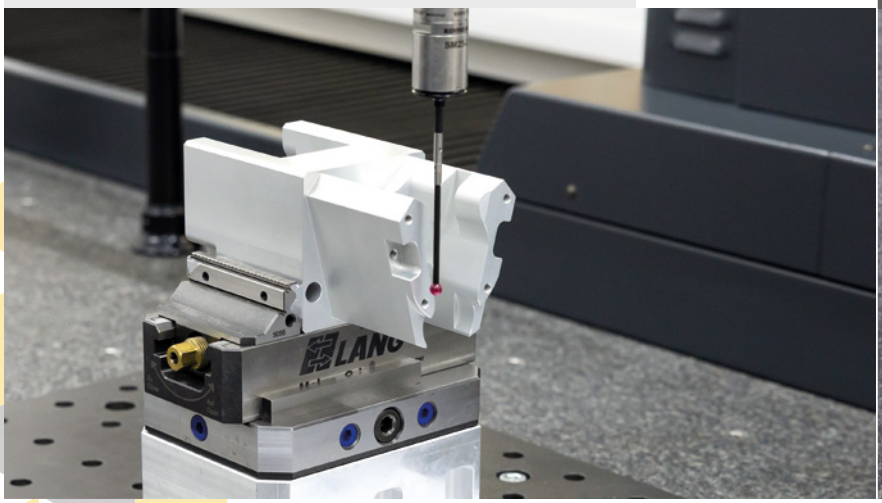
ASSEMBLY OF SUBASSEMBLIES – OUTSOURCING MADE EASY

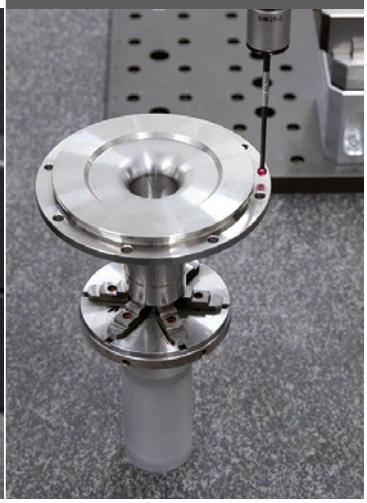
We assemble your subassemblies – whether mechanical, electrical or pneumatic. We also take care of functional testing, documentation, packaging and shipping.

This allows you to free up internal resources while benefiting from reliable, repeatable assembly processes.

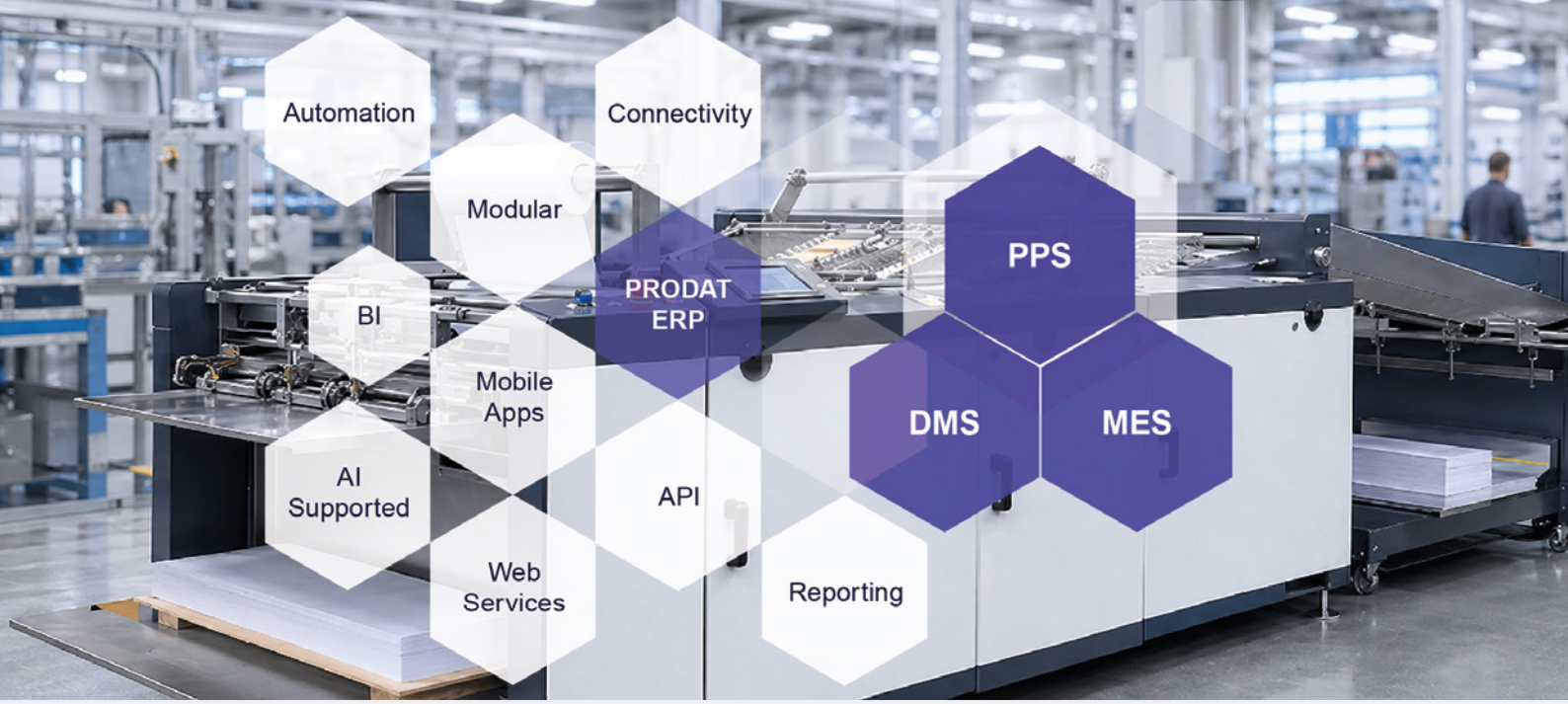
- **Batch sizes:** prototypes, individual parts, small production runs and batches of up to approximately 1,000 pieces
- **CNC machining:** aluminium, brass, steel, stainless steel, titanium and a wide range of engineering plastics
- **SLS 3D printing (Nylon PA12):** for prototypes and small production runs
- **Industrial parts cleaning**
- **Quality assurance** through dimensional, form and positional tolerance inspection using advanced measuring systems
- **Full production transparency** through networked machines and an ERP system for scheduling, production monitoring and batch traceability
- **Design review** and optimisation for improved manufacturability







CNC Contract Manufacturing
and SLS 3D Printing – Engineered
by Machine Builders



Steuern und planen Sie Ihre Produktion in einem System. Mit PRODAT ERP profitieren Sie von Branchenlösungen im Sondermaschinenbau.

PRODAT ERP unterstützt CNC-Fertiger und Sondermaschinenbauer dort, wo Kunden und Lieferanten heute den größten Druck spüren: bei Terminverbindlichkeit, Materialfluss, Dokumentation und transparenter Fertigungssteuerung.

WIRKLICH WICHTIG

Vernetzte Prozesse

Vertrieb, Einkauf, Lager, Fertigung, Qualität und Dokumentenmanagement greifen nahtlos ineinander.

Shopfloor-Digitalisierung

Digitale Fertigungsaufträge, Betriebsdatenerfassung und mobile Prozesse bringen aktuelle Daten direkt in die Fertigung.

Intelligente Materialsteuerung

Bedarfsorientierte Beschaffung und Fehlteilüberwachung unterstützen eine terminsichere Materialsteuerung.

Lieferkettenfähigkeit

Strukturierte Datenflüsse verbessern Zusammenarbeit, Nachweispflichten und den Datenaustausch mit Partnern.

PRODAT ERP unterstützt branchenspezifische Abläufe mit strukturierter Dokumentation, eindeutiger Rückverfolgbarkeit und Funktionen für Seriennummern, Material-Compliance und Qualitätsprozesse. So bleiben relevante Nachweise, Freigaben und Prozessdaten über Auftrag, Fertigung und Lieferung hinweg transparent verfügbar.

PRODAT | PRODAT ERP ist die Business-Software der CIMPCS GmbH

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ZERTIFIZIERTES MANAGEMENTSYSTEM
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