

**BECK**TRONIC  
perfect. stencils.



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# Foreword

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## **BECKTRONIC - Perfection from us for you**

High-quality products, outstanding service, extremely fast delivery times ...

This is what BECKTRONIC GmbH stands for. The production of high-precision SMT stencils and microstencils is our core business and we offer a wide range of stencil solutions for soldering paste and adhesive printing as well as LTCC and micro-applications. Competent technical consulting and comprehensive CAD/CAM services round off our profile. Our passion is to create the perfect stencils for your applications!

# BECKTRONIC

## perfect. stencils.

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At our location in the Westerwald we manufacture each year nearly 20,000 SMT stencils, microstencils and moulded parts and are therefore one of the leading manufacturers of precision stencils for the electronics industry. Within our company structure, we have incorporated very high demands on ourselves and our work and we set great value on competent customer service as well as the perfect fulfilment of your orders.

We use only high quality stainless steel and nickel alloys, which are specially optimized for the laser cutting process. They are characterised by freedom from stress, low thickness tolerances as well as a degree of hardness adapted to the production and application processes. For a perfect result!



... for the best  
results

## Know-how

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Various laser systems are used for the production of our products, which are designed for absolute precision cutting. Fully air-conditioned production facilities, optimal system adjustments, regular maintenance and appropriate calibrations contribute to delivering reproducible results accurate to the micron.

# Services

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The focus of our work is customer satisfaction. We give 100 % focus to this every day at our production location in Weitefeld. Our expert team will advise you comprehensively. Thanks to years of experience and in-depth know-how, we will be able to implement your orders smoothly. And if we need to act quickly and flexibly, we will always find a good solution.

## **Reliable. Innovative. Flexible.**

Without any additional costs we offer you the shortest lead and reaction times. The standard delivery time is one day. But when it is really urgent: for orders received before 3 pm, we will dispatch your stencil the same day so you will have it ready for printing in your production site the following day. The testing, possible optimizing and adjustment of your data, is not subject to any cost surcharges at BECKTRONIC as standard.

We make the difference.

# Products

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BECKTRONIC offers you a wide range of products, that covers all common systems and manufacturers. We manufacture high quality stencils for soldering paste printing, the perfect tool for your circuit board assembly.

In addition to SMT stencils for use in quick-tension frames, we provide stencils in fixed frames, moulded parts, diverse special stencils and adapter and upgrade systems. This allows us to meet individual customer requirements and to find practical solutions for special cases as well. The surfaces of our stencils are finished with innovative techniques, whereby the release behaviour, the service life and the cleaning intervals are optimized. Furthermore, our product line includes a wide range of accessories such as storage cabinets and bags, squeegee blades and self-tensioning frames.

**A perfectly rounded portfolio!**

Detailed information on BECKTRONIC products can be found in our product brochures.

We will be pleased to send you non-binding information material or visit us online:

[www.becktronic.de/downloads](http://www.becktronic.de/downloads).



## BECshop

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We are available to you 24 hours seven days a week. Visit our online shop and configure SMT stencils according to your individual requirements.



# Research & Development

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Stencils from BECKTRONIC sustainably increase your efficiency – because we know what is important in your everyday production.

We know how important precision and productivity improvement are for you. We are working continually on ever more accurate stencils, because miniaturization keeps on going. And we offer solutions for more efficient and safe working. Your demands for quality, precision and time savings guide our development. A close, project-related collaboration with research institutions, universities and various engineering firms is of great importance for us.



# Innovation & the Environment

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We think in intelligent networking and industry 4.0. Internally, we have already largely networked data processing and production.

As a first step, we have set up a tracking system for our customers. Our customers have the option to see the production status of their order, at any time and from anywhere. Transparency always and everywhere, will continue to guide us.

A green, environmentally friendly production chain forms an important element of our corporate policy. We therefore want to significantly reduce or completely avoid environmental pollution in different forms. Environmentally relevant legislation and regulations for the avoidance of hazardous substances provide the basis and serve as a guide. BECKTRONIC also promotes careful handling of resources which extends beyond legal requirements. The economical consumption of raw materials and materials also favours cost-optimized production.



... always one  
step ahead



# Quality Management

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Individually adapted production parameters, regular maintenance of all systems and production in air-conditioned rooms are important components of our quality assurance. So we can guarantee you an exact cutting performance as well as very high repeatability and positioning accuracy, always with reproducible results. Our system for quality assurance in the final processing phase is augmented by means of a scan check. This checks the stencil and compares the CAD data with the cutting pattern. Location, completeness and dimensional accuracy of the laser-cut pads are very closely controlled.



# Certificates

Our top priority is the quality of our products and services. This is how we ensure that we provide our customers with products of consistently high-quality and to be successful in the long term.

Since 1999, our quality management has been DIN EN ISO 9001 certified. The certification is an important element in the continuous optimization of our business processes and helps to sustainably strengthen our position in the market against competitors.





# Service & Consulting

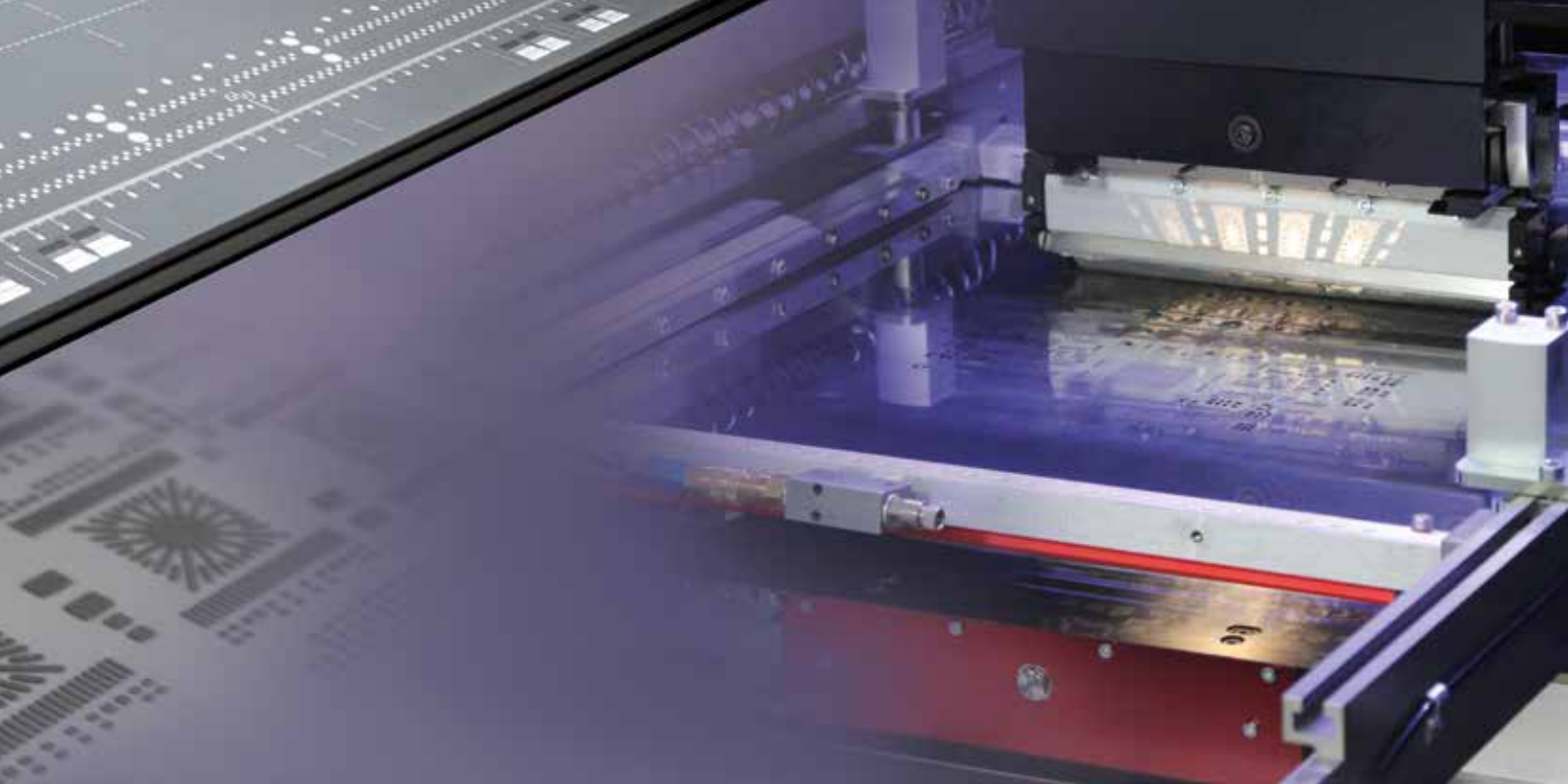
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What we aim for: the perfect stencil for you, our customers. Strong service and flexibility are a given for us.

In coordination with you, we will work out all aperture geometries for the perfect print result. The guidelines of the IPC-7525A as well as the special requirements of any special design (QFN, QFP, BGA, LGA, ...) are taken into account.

Your data passes through an in-house software-based plausibility check, which checks compliance with design rules. In addition, all CAM data is checked and in the case of ambiguous definitions, dialogue with the customer sought.

We will inform you about critical and recommend corresponding pad modifications. You will also find the optimal stencil thickness for your printing process in our very well stocked materials warehouse -for designs 1206 over 0402 up to 01005 and 03015.



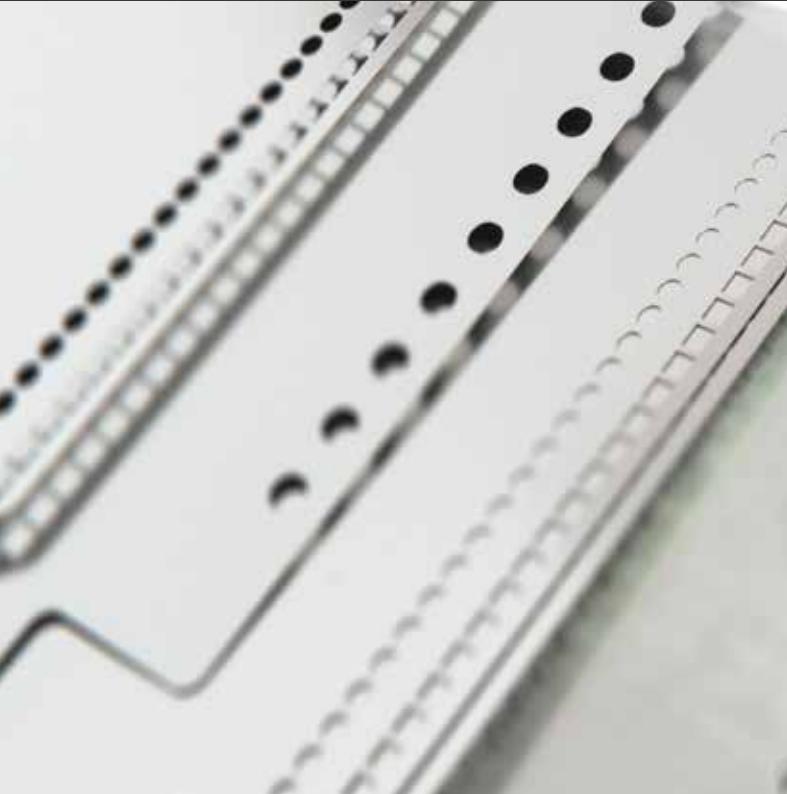
**Our CAD/CAM services include:**

- Anti-tombstoning optimization
- Percentage and component-specific adjustments
- Pin in Paste optimization (for THT components)
- Screening of ground connection for transistors, QFN, etc.  
(e. g. simple screening, multiple screening/window pane design)
- Creation of multipanels, positioning of multiple images on a stencil
- Creation of squeegee blade optimized stepped surfaces for stepped stencils
- Creation of glue dots either according to specification or assembly plan
- You will receive a control plot for approval before production, on request.
- We will provide, the processed Gerber data, on request.

# Express Service & Delivery Times

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Even when time is of the essence, you can rely on us. Because the fast fulfilment of your orders is one of our strengths.



During the process, an exchange takes place with our customers in a spirit of partnership, in order to avoid misunderstandings and to guarantee the punctual delivery. This allows you to receive your SMT stencil within one day and use it in your company.

# We are here for you

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## Any more questions?

Then the BECKTRONIC team is at your disposal with advice and support. We would be pleased to advise you in advance and introduce our extensive range of products. Then experts in all areas of production will ensure that your order is fulfilled smoothly and in the best quality.

You can rely on our profound know-how and long-standing experience within the industry. We will be pleased to visit your company and help with any questions you may have about SMT stencil printing, stencil design, self-tensioning frames and more.



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