

color consistant proofs

decor market

research & development

color management

technical rollers

color separation

special applications

artwork 3D

direct laser

flexo



special eletroplating

bases

cliche

rotogravure

design development

laser etch engraving

repro

security printing

embossing

proofing

screens

sleeves

image processing

packaging

hand engraving

content

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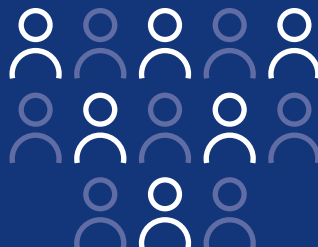
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founded in 1890



over 130 employees



made in Germany

SWG · Sächsische Walzengravur GmbH

State-of-the-art since 1890

Founded in 1890 as a roller engraving company, SWG is one of the most long-standing engraving companies in Europe. In addition to a wealth of experience, we have inherited one thing in particular, from our ancestors: the spirit of innovation and the will to continue developing. That's why our motto is: „state-of-the-art since 1890“.

Our approx. 400 customers all over the world are as diverse as the solutions we develop in collaboration with them. That is precisely what our more than 130 experts specialise in. Thanks to our highly qualified staff, we can offer you a wide range of products, top quality, the flexibility of a medium-sized company and personal service. We are at your side when it comes to perfectly tailoring and implementing your designs and motifs. First-class printing and embossing are our passions.

Our goal is to offer you added value. To achieve this, it is not enough for us just to be a supplier; what you need is a business partner that thinks with you, that can provide the synergy effects of comprehensive pre-press services and that is able to take a broader view and “think outside the box”.

We are as diverse as our customers. From package printing, decorative print applications or the famous special services – we understand the particular requirements of the various markets and guarantee perfect image processing and engraving for gravure, flexo, screen printing and embossing.

Another of our services is the bespoke manufacture of technical rollers in our in-house machining shop. Whether with or without engraving, we are your partner of choice for a wide range of technical rollers.




CALLEBAUT®
BELGIUM 1911

CRISPEARLS™

ruby chocolate coated cereals
Céréales enrobées de chocolat ruby
Granen omhuld met ruby chocolade
Getreideproducten overzegen met ruby chocolade

RUBY



Casali
SCHOKO-
BANANEN
minis



BURGER
Das Landknäcke

DELIKATESSE
natürlich mild

Servierungsvorschlag
Serving Suggestion

**knusprig
ZART**

2 Scheiben

100 % Vollkorn im Getreideanteil
21 % Ballaststoffe

DELIKATESSE
natürlich mild

**knusprig
ZART**

2 Scheiben

100 % Vollkorn im Getreideanteil
21 % Ballaststoffe



Packaging

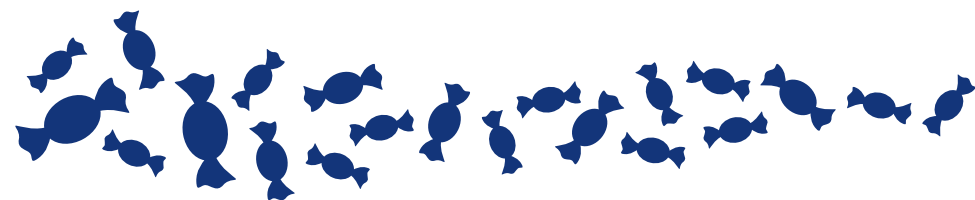
Too beautiful to unwrap

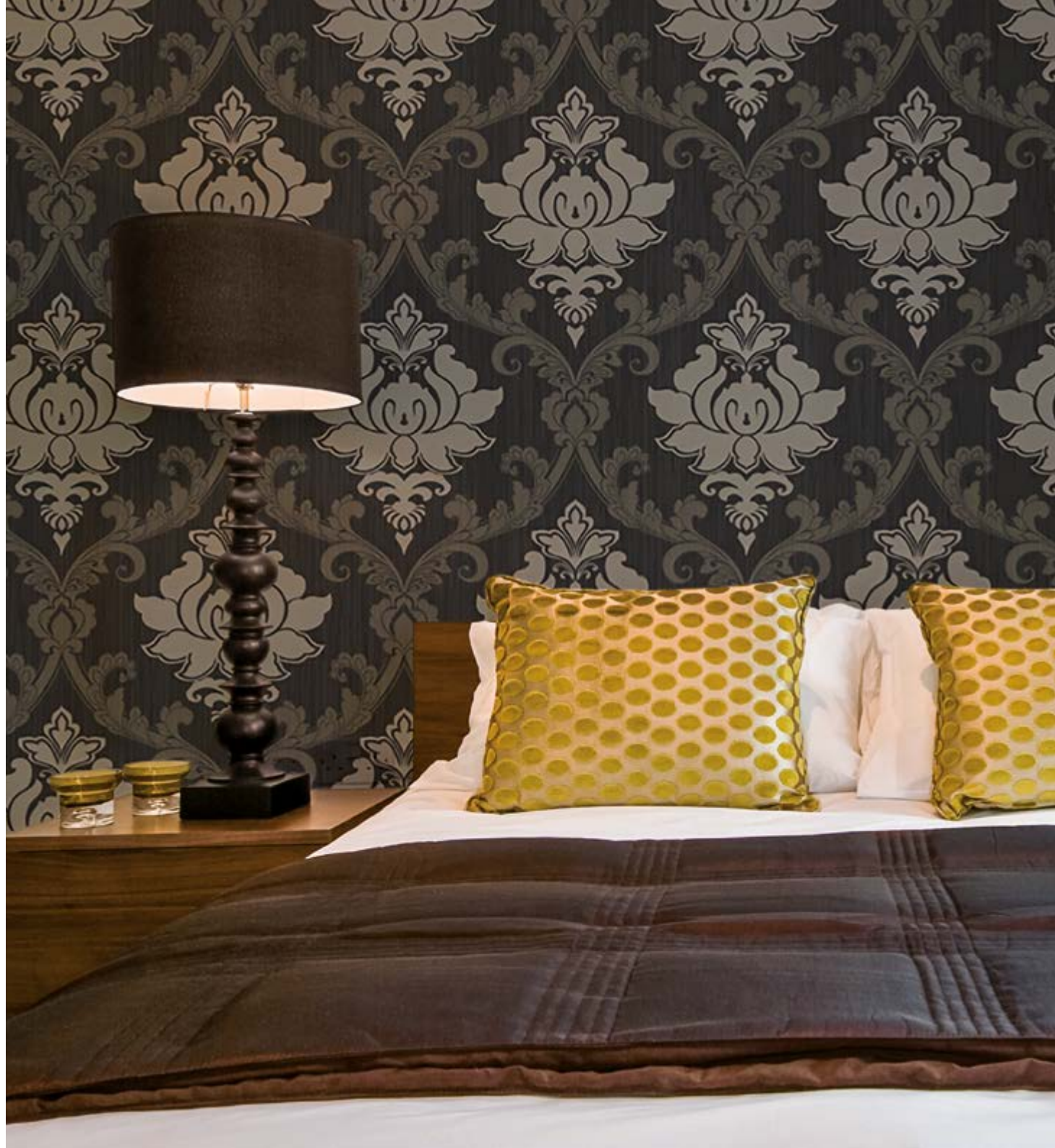
Protecting the product, communicating information to the customer and skilfully highlighting the brand – that's three wishes at once! But we can work with you to make all of them come true, whatever you need – from flexible packaging to pharmaceutical or tobacco solutions.

We support you right from the design phase and organise the image data in such a way that you achieve the desired result with as few colour layers and printing plates as possible. Fingerprints and sophisticated colour management system ensure that your design specifications are implemented meticulously. This allows consistent use of logos and design elements, regardless of packaging sizes, country variants and printing technologies.

To protect against product piracy, printed or embossed elements can be used, or even printed electronics.

Special printing characteristics for renewable substrates ensure optimum colour reproduction on environmentally friendly substrates. Thus, the packaging not only protects against food spoilage, but also contributes to environmental protection through reliably functioning return and recycling structures.





Home decor

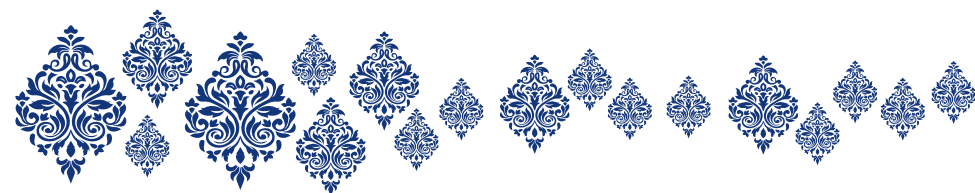
Simply unique, simply beautiful

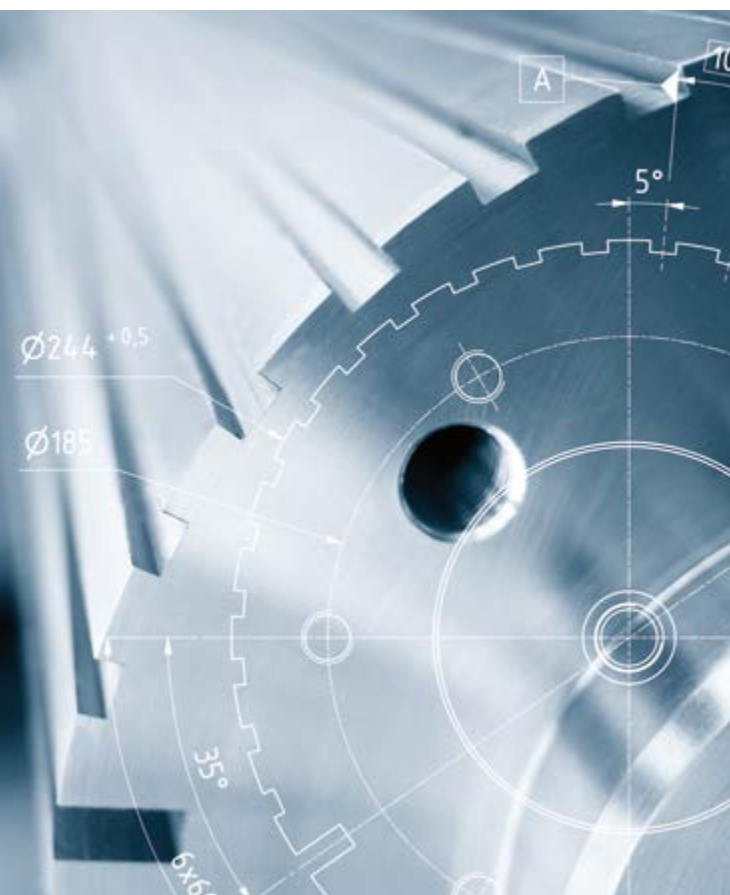
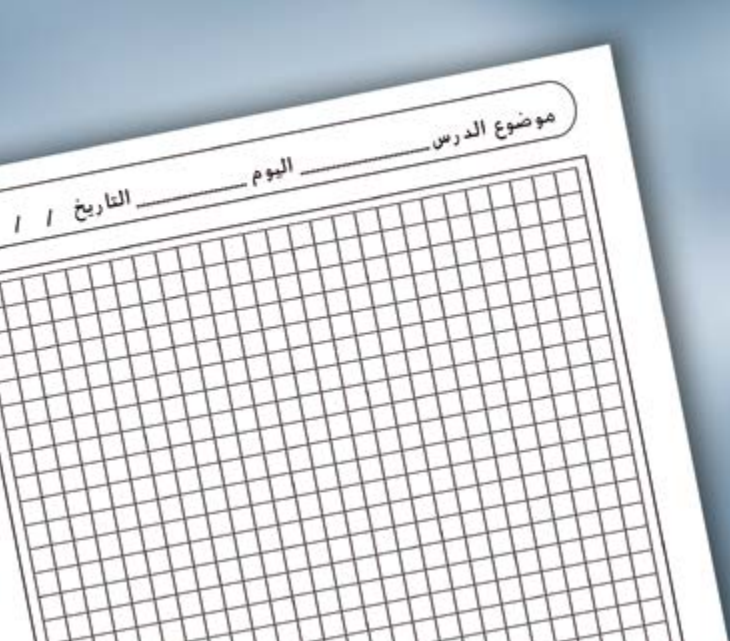
They set design trends and influence fashion styles. Wallpapers, fabrics, napkins, furniture foils – you name it: the range of decorative applications is huge. What they all have in common is that creativity needs freedom and support. That's what we offer you.

From the initial motif design to the final product, skilled professionals are at your side to turn ideas into distinctive items of everyday use. And how

about combining brilliant colours with tactile effects? Through the opportunities offered by varnishing and embossing, we can help you make the most of this third dimension.

Using high-quality separations, we can simulate different colour combinations for you in advance and colour your motifs accordingly in the later printing process. Simply unique, simply beautiful.





Special applications

Beyond any standards

Special requirements need special solutions. Security printing, lineation, technical rollers or even special electroplating – each of these require very particular qualities. Recognising these and delivering customized solutions seems to have been in our genes ever since our company was founded.

Sometimes it is a matter of very special data processing, sometimes technologies have to be pushed to their physical limits or processes have

to be developed jointly. All special applications have one thing in common: with the finished product, everything looks very simple.

Special challenges motivate us. Go ahead and be special; we are special, too!

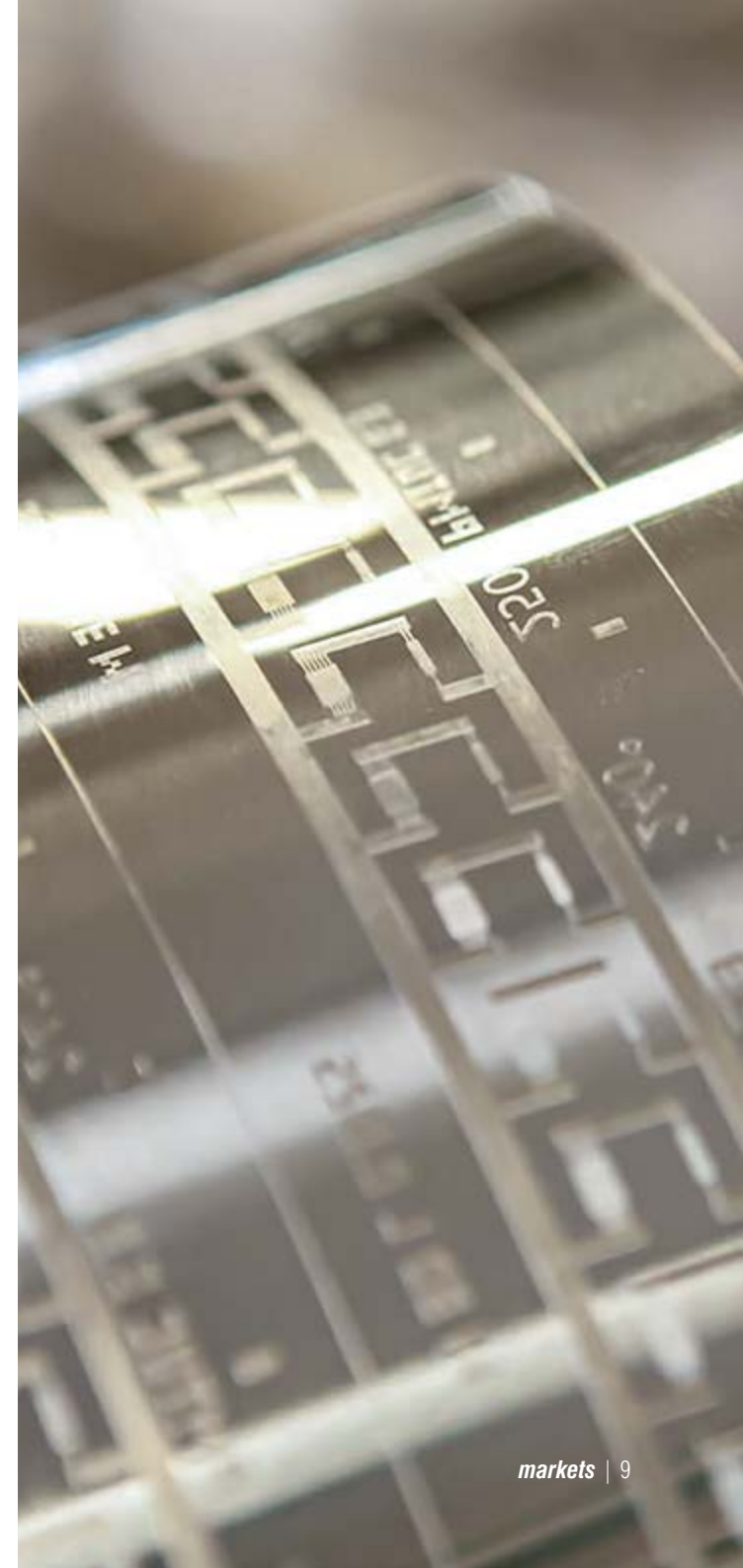
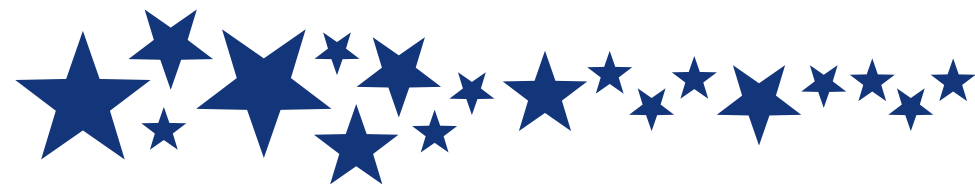




Image editing and design development

Your design, the be-all and end-all

At the beginning of every printing and embossing project, there is the design idea. Our specialists for the respective markets know the diverse requirements and are at your side from the very first draft. With our own assortment of samples, we will show you the wide range of technical possibilities and stimulate your creativity.

Your distinctive motif is the be-all and end-all. The principle is: as few colours as possible, as many colours as necessary. As far as possible – in package printing, for example –, we also plan interchangeable cylinders in order to minimise the total number of printing plates you require.

Special software, state-of-the-art scanning technology and innovative workflows ensure short processing times and enable our specialists to concentrate on their creative activities – both for printing and embossing applications or for a combination of both.



State-of-the-art scanning technology

precise 2D and 3D image data

CMYK + X

standardisation to reduce set-up times and ink usage

Colour Management

uniform design language, independent of substrate and printing press

Colour separation and artwork

perfect colour representation and typography





Gravure cylinder

Colour brilliance to the tips

We perfectly adjust your image data for gravure printing. Depending on the application, we use all relevant engraving methods. Electromechanical engraving is the precise and repeatable standard for bringing brilliant colour gradients onto the substrate. Using laser etching technology, highlights can be set for fine lines and smooth edges. Thanks to direct laser technology, the advantages of both engraving processes can be combined if, for example, there are very special requirements for security printing.

Our machinery is equipped for axial and shaft less cylinders of various dimensions. For special requirements, we offer our thin sleeve system. The focus is always on what is best for your motif - throughout the entire process chain, from image processing and specially adjusted micro-graphs of the engraving surface to engraving and proofing.

You want to bring your product to market quickly. Thanks to our in-house steel base manufacturing, we shorten delivery times and transport routes. We are your partner of choice for the complete process chain, from the initial idea for a motif to the printed product.



Base and engraving copper

the basis of all good engraving

Defined raster geometries

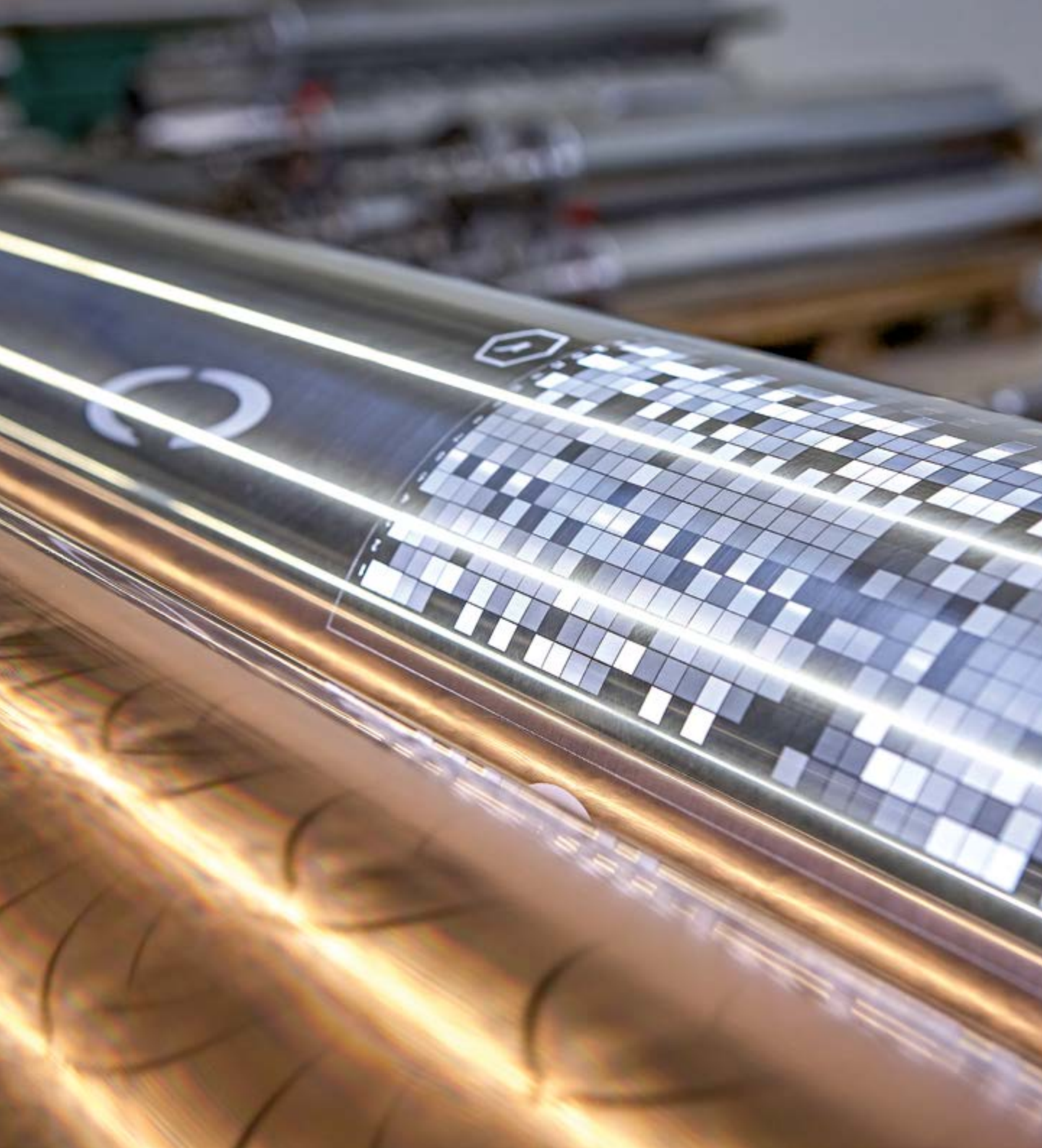
optimised ink application and fixed volume

Cylinder management

reuse and adaptation of old cylinders

Various engraving technologies

special solutions for special requirements





Flexo printing forms

Be flexibel, be flexo

Flexo printing almost has flexibility in its name. Every single printing project, substrate and press has its own requirements. This is why we rely on the advantages of elastomer printing forms. A large number of specially matched elastomer compounds ensure both the best possible ink transfer and a long service life.

Sleeves are our speciality. They offer optimum printing speeds and set-up times, smooth running and an endless range of beautiful motifs. Using state-of-the-art multi-beam laser technology and three-dimensionally structured printing dots, we ensure sharp contours and soft tonal gradients. With working widths from 10 cm to 3.8 m, there are virtually no limits to the various dimensional requirements.

The manufacturing process is, of course, solvent-free and therefore environmentally friendly. On request we can also arrange for the return and integration of your old sleeves into the recycling cycle.



CO₂, diode and fibre lasers

high engraving quality, independent of sleeve material

Plate assembly and adhesive tapes

not needed with sleeves

High print densities

to reduce ink consumption

Multi-beam technology

protects print points with high efficiency





Screen printing forms

For colours that dreams are made of

Thanks to our high level of design competence and more than 40 years of experience in the production of screen printing forms, we speak your language when implementing new motifs. Of course, we take into account the requirements of changing colouration.

Rotary screen printing offers high colour volumes and a high-quality printing result. At the same time, it enables effective haptic effects to be achieved through the use of foam or lacquer. With our repro and engraving expertise, we give you creative freedom: for attractive fabric designs and wallpapers that emanate a feel-good atmosphere.

The combination of direct laser technology and a wide range of high-quality screen types, offers you the best conditions for optimum printing results. Very short delivery times and highest quality guarantee you fast and lasting success on the market. Special screens such as for technical coatings also offer solutions for very special requirements.



Lacquer and galvanic screens

the best for every print job

Direct laser technology

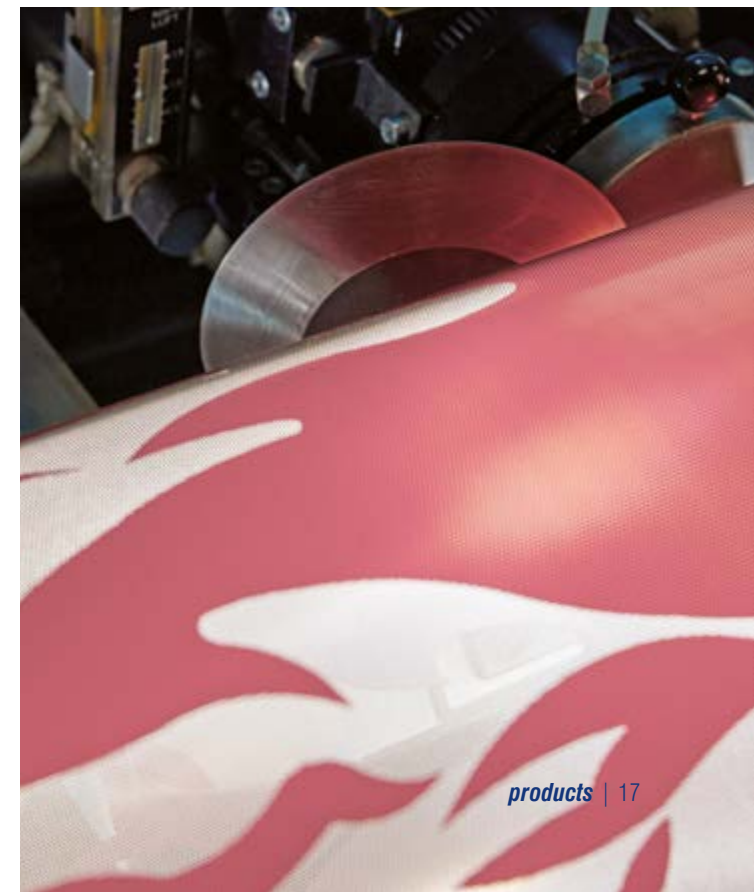
highest precision and repeatability

End rings for rotary screens and machinery

for long-term smooth printing

Large variety of dimensions

various screen types of lengths up to 3,500 mm





Embossing forms

Quality in the third dimension

Whether wallpapers, vehicle interiors or other decor and packaging applications: the value of your products becomes tangible through embossing effects. With our embossing forms you open up the third dimension, also for micro-structuring and security features.

High-resolution scanning technology, professional image processing and a patented workflow provide the basis for high-precision engraving. For the exact reproduction of the engraving data, we use state-of-the-art direct laser technology, both in metal and plastic. Special print simulations, impressions and embossing in original material give you a clear idea of the final product in advance.

In order to give your motifs a distinctive touch we also use hand engraving. Our experts use it to create very individual works of art, where even the most modern laser technology reaches its physical limits.



The μm

10-6 metre or the unit of measurement for perfect embossing structures

Direct laser

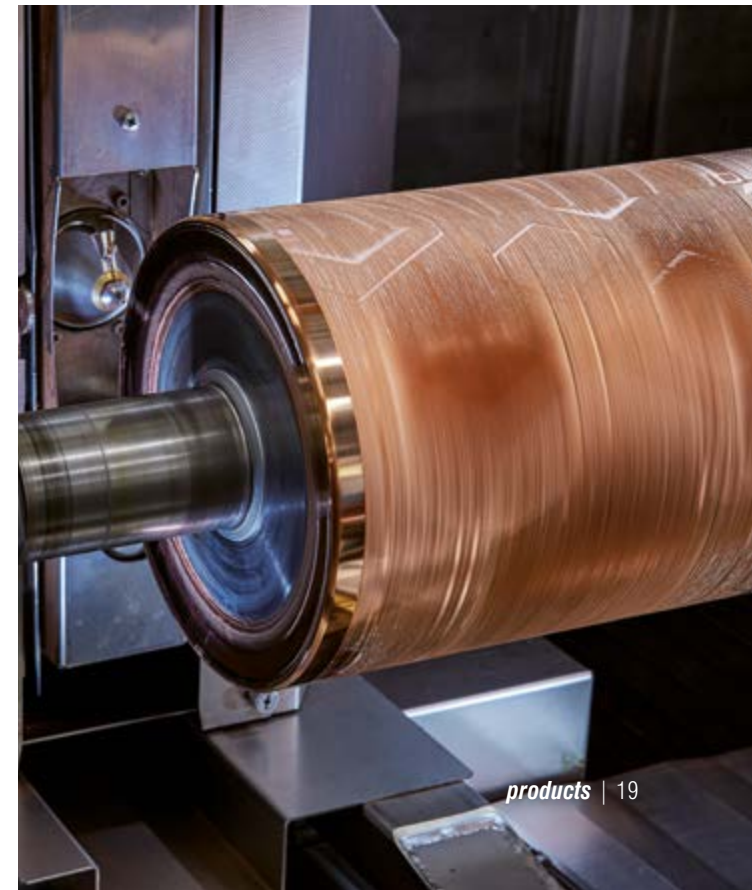
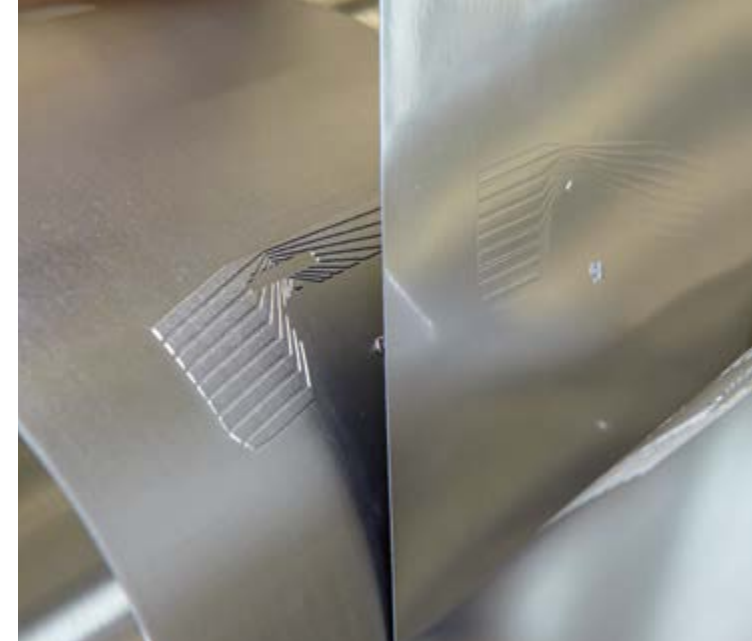
3D engraving in metal and plastic

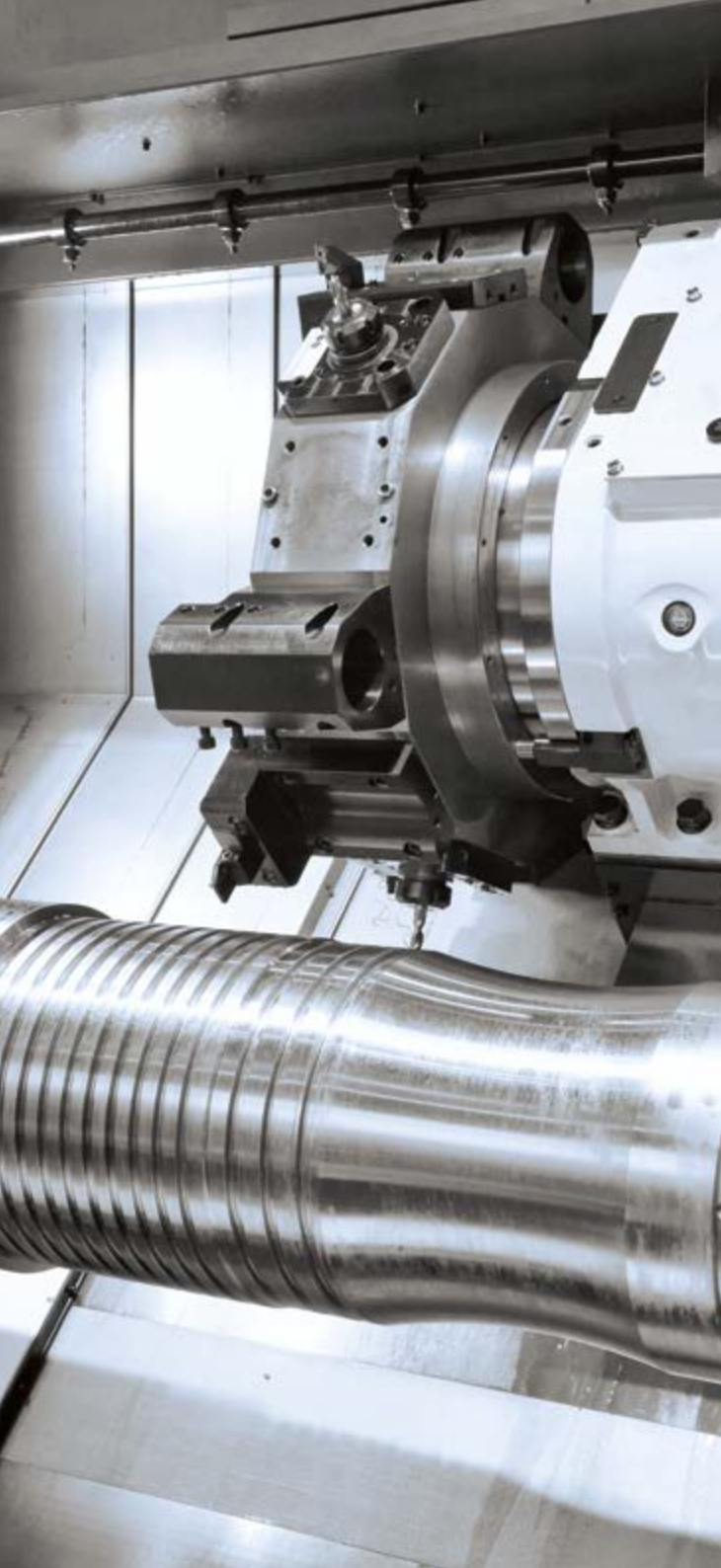
Laser etching technology

multi-level engraving for deep structures

Hand engraving

a combination of art and craftsmanship





Technical rollers

Time that something turns

With our modern and efficient in-house mechanical production, we are your reliable partner for technical rollers as well as gravure and embossing cylinders. Regardless of whether steel, aluminium or other materials are to be used.

With our own design know-how, we can advise you on cylinder design in order to optimise the use of weight and materials. For protective chromium plating, galvanic finishing, rubber coating or targeted surface structuring, we can draw on our own process technology and a powerful network of cooperation partners. At the same time, this enables us to reduce production and delivery times.

Your unused cylinders are not automatically obsolete. We adapt them to your changed requirements by means of a wide range of options for enlarging and reducing circumferences. This saves resources and valuable storage space.



Technical rollers

cylinders with inner workings and/or defined properties

Printing and embossing bases

ultimate quality and smooth running

Galvanic finishing

if (stainless) steel and aluminium are not sufficient

Turning, grinding and welding services

complement your own portfolio





History

State-of-the-art since 1890

On June, 2nd 1890, August Dippmann founded his company for the production of rollers and engravings for printing and embossing, later known as Sächsische Walzengravuranstalt August Dippmann & Co., in Frankenberg.

After the successful development of the company and exports even to Japan, the founder died in 1931. His wife continued the company together with their three daughters until after the end of the Second World War.

With the foundation of the two German states, Sächsische Walzengravur was the only company of its kind in the GDR and the Eastern bloc. In 1952, the company was nationalised as VEB Walzengravierwerk Frankenberg. Its former owners, the Dippmann family, managed to flee to West Germany. An authorised signatory was imprisoned by the arbitrary justice system of the GDR and died later due to the strains of imprisonment.

From 1959 onwards, the roller engraving plant took part in international trade fairs and steadily expanded its export business. By 1984, the number of employees rose to 280, working at several production sites in Frankenberg.

In 1991, the descendants of the company's founder reprivatized the company together with Janoschka GmbH & Co. KG, one of the world's leading prepress companies. Since then, Sächsische Walzengravur has been part of the Janoschka network.

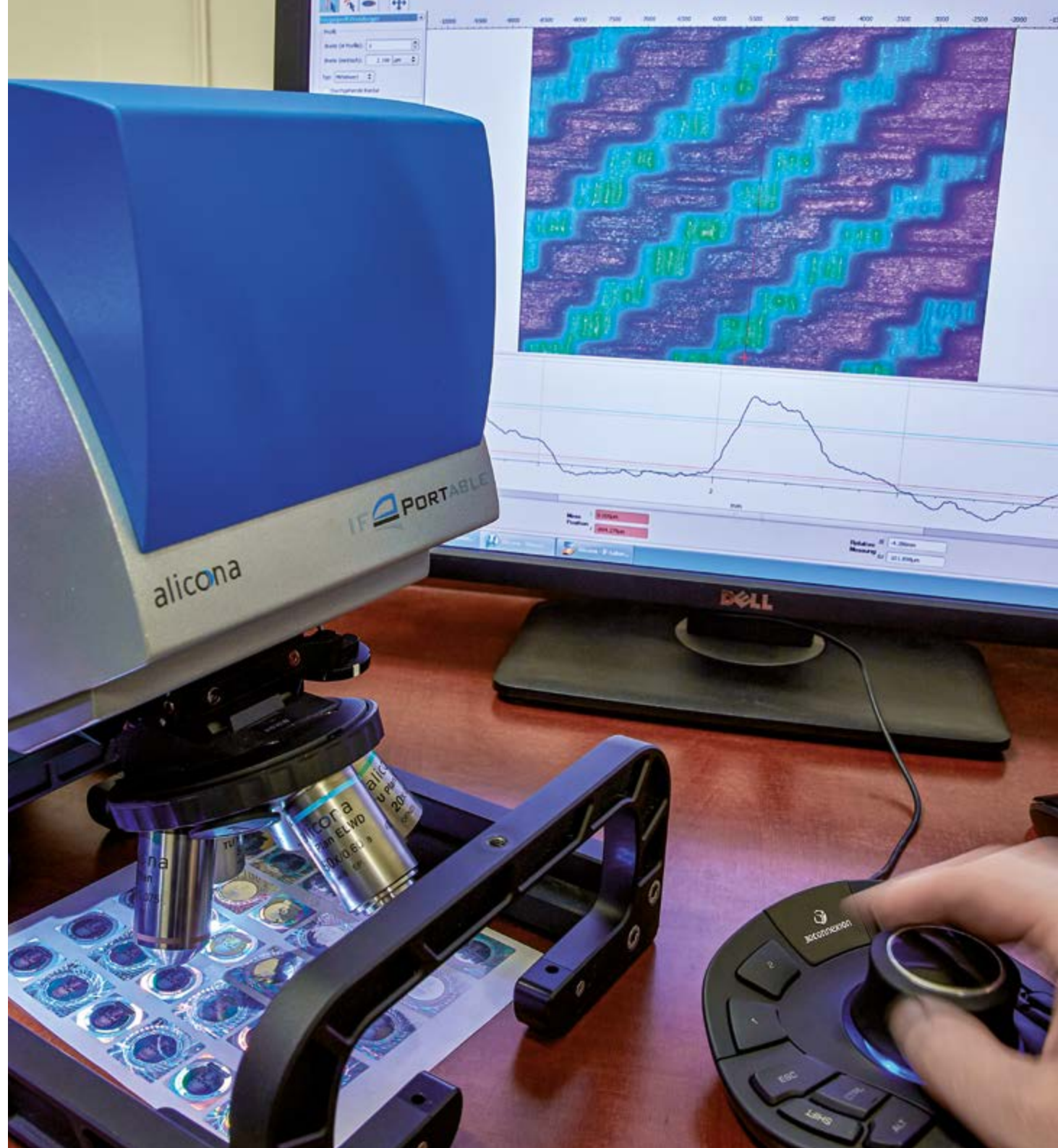
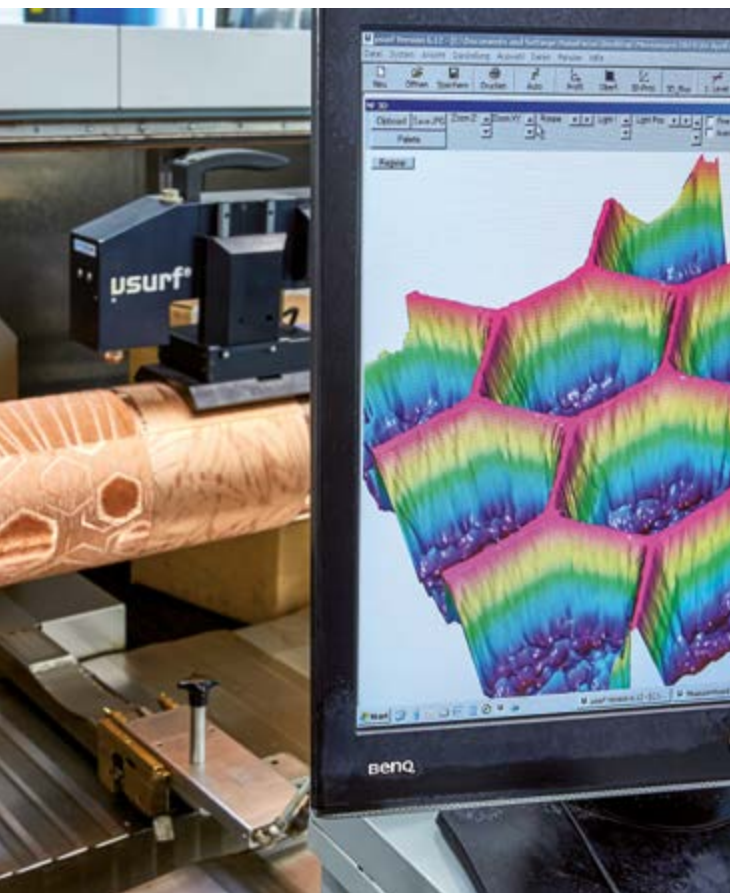
In 1992, the company began flexo printing form production with the first direct laser engraving system. This was followed by numerous other machines to take account of the steady growth of this product group.

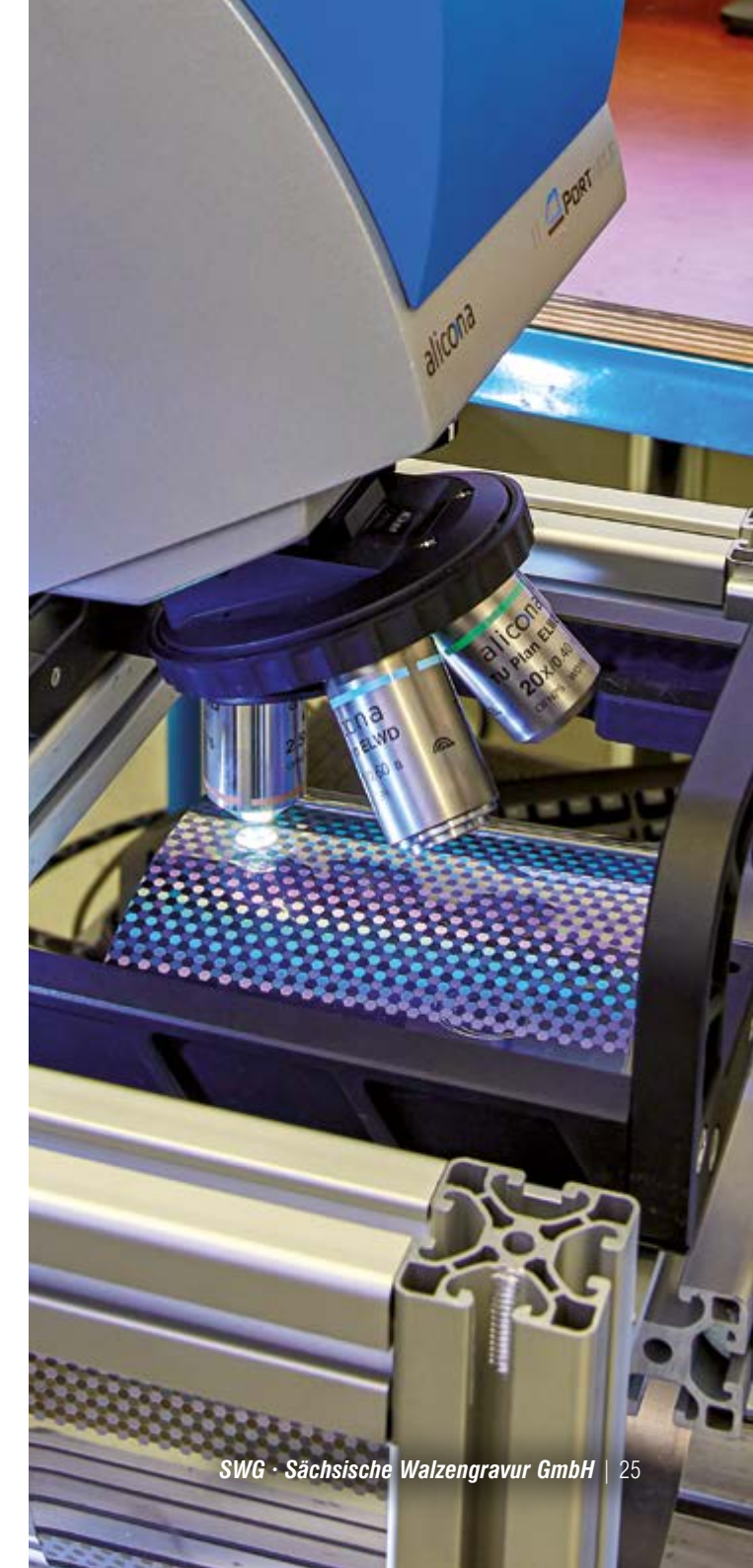
SWG's comprehensive quality management system has been certified by TÜV since 1997, currently according to ISO 9001:2015.

Continuous investments are made in quality, growth and environmental protection, both through research and development and through direct investment. The largest single project since reprivatization was the construction of a new production hall in 2007 and the completion of the fully automatic rotogravure form production in 2009.



August Dippmann,
founder of Sächsische Walzengravur GmbH





Research and Development

Looking beyond the horizon

Continuous research and development have a long tradition at SWG. The goal-oriented and methodical optimisation of processes and the search for future-oriented products and technologies are the foundation of a sustainable, successful corporate development. Since our foundation, this has been an integral part of our company philosophy. This is the only way we can offer our customers a decisive advantage in daily competition.

A basic prerequisite for this is our close contact with customers and suppliers in order to be able to identify trends at an early stage. Thanks to our close network of research institutions and experts, we constantly broaden our knowledge base and keep an eye on the bigger picture. The field of contract development is also becoming increasingly important. In addition, we are a sought-after beta test partner for innovative machines and technologies which we support with our own R&D department.

Our extensive and methodical work in research and development is expected by our shareholders and supported by the annual provision of a high, six-figure budget. We are supported in this by government grants. Both the Free State of Saxony and the Federal Republic of Germany, as well as the European Union, are involved in some of our projects through their institutions and funding programmes.

Our development projects focus on materials research, in particular for improved printing and environmental properties, as well as direct laser technology including special data handling. We use the latter, among other things, to supplement printing and embossing effects with functional properties.





Sächsische Walzengravur GmbH

Badstraße 9

D-09669 Frankenberg

phone +49 37206 6 30

fax +49 37206 6 31 80

e-mail info@swg-online.de

[www.***swg-online***.de](http://www.swg-online.de)