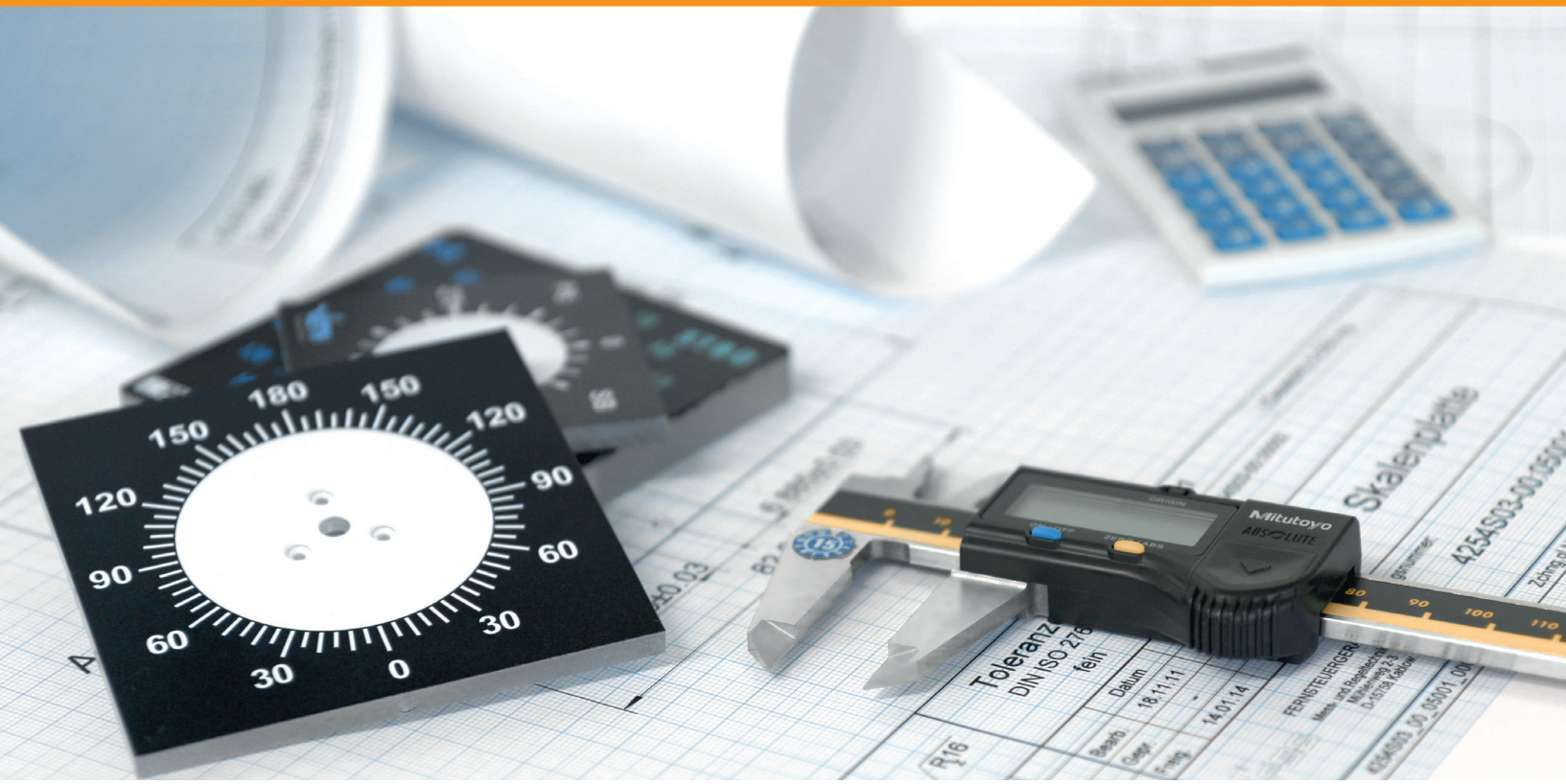
UNION KLISCHEE

Ätztechnik Spezialdruckerei



Etched components ◆ Screen printing ◆ Pad printing ◆ Digital printing

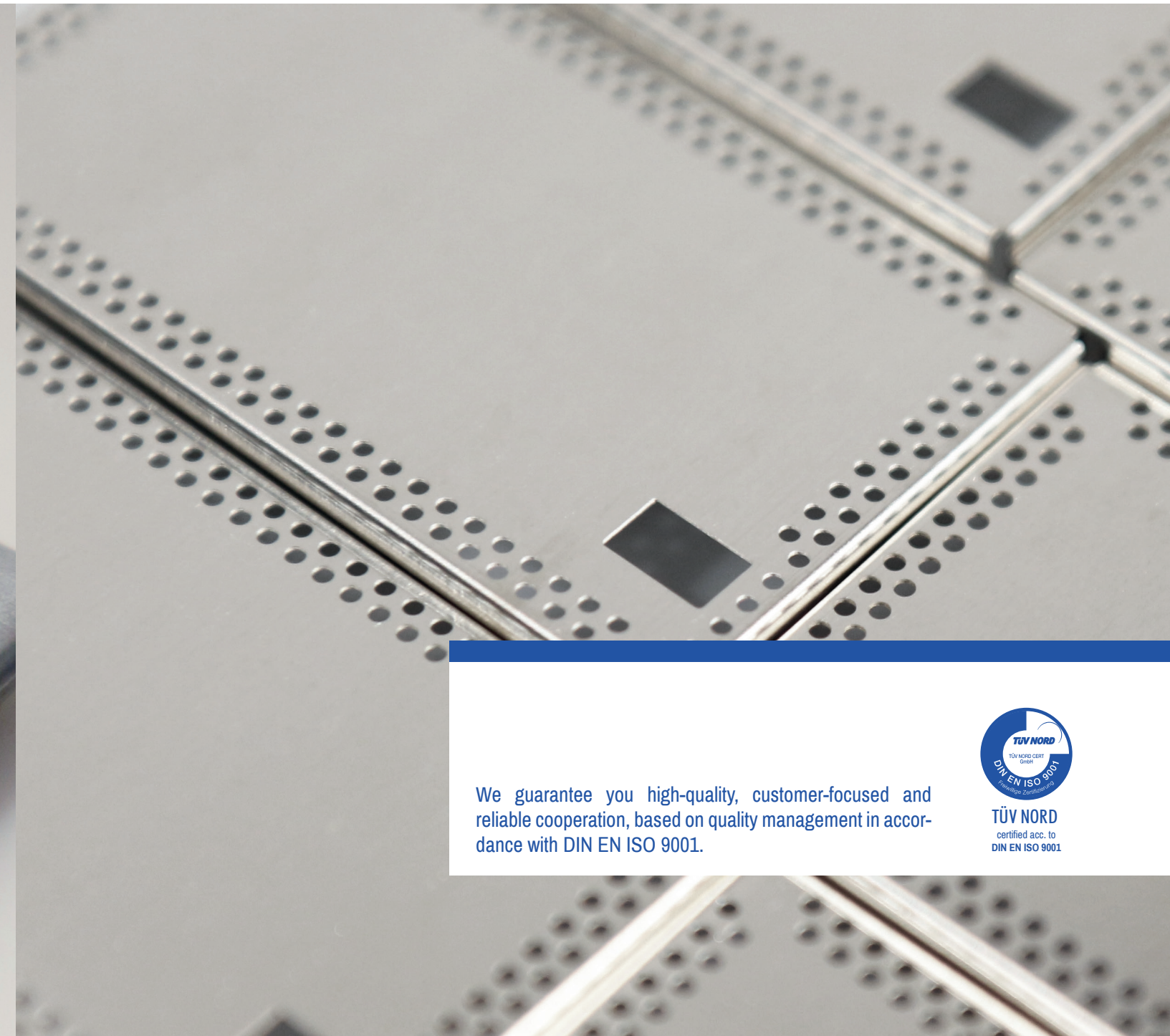
Union-Klischee

Our winning formula is the symbiosis of tradition and innovation.

See how our specialists' extensive experience and expertise can benefit you.

With over 40 years of experience, we specialise in the fields of contour-etched parts, screen printing, printing on 3D objects and digital printing. With these different printing techniques and manufacturing processes under one roof, we are able to offer a wide range of products and a comprehensive range of services.

Our customer base is made up of industrial companies from the fields of medical technology, measurement and sensor technology, precision engineering and mechanical engineering. We also provide our services to model construction companies, public services, advertising agencies and private individuals.



We guarantee you high-quality, customer-focused and reliable cooperation, based on quality management in accordance with DIN EN ISO 9001.

TÜV NORD
certified acc. to
DIN EN ISO 9001

Company history

1971 Founding of UNION-KLISCHEE
Kurt Oelsch + Heiland & Schmidt OHG

1998 Introduction of digital printing & plotting

2004 Introduction of large-format digital printing

2008 Certification to ISO 9001

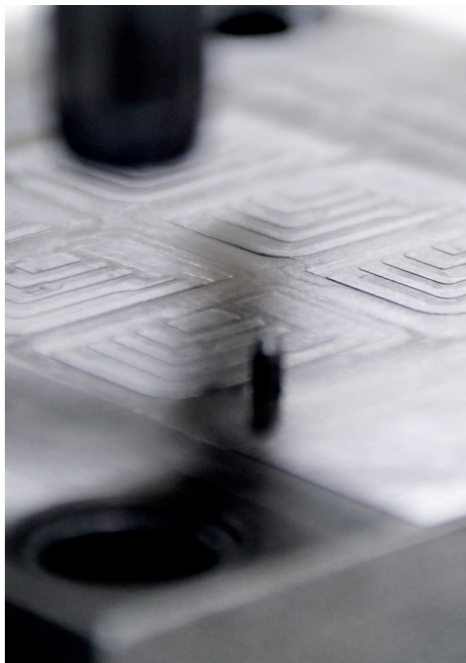
2010 Restructuring into UNION-KLISCHEE GmbH

2013 Introduction of UV printing process

2014 Patenting of IsoLam®

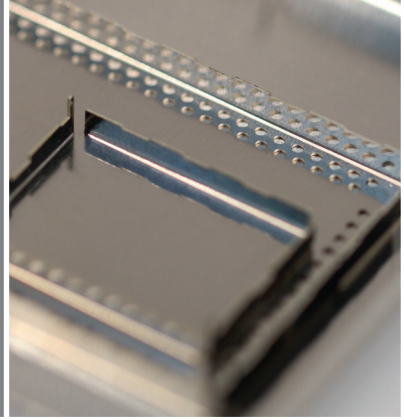
2017 Relocation to the newly acquired site with double the production area

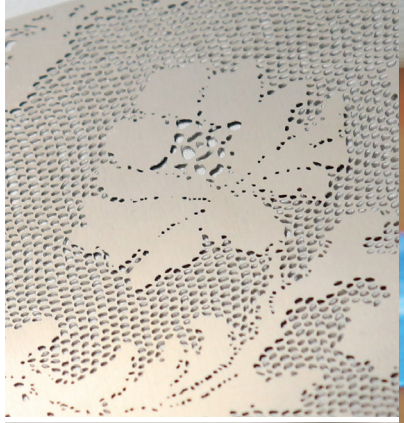
Production area: approx. 2000 sqm
Employees: approx. 20

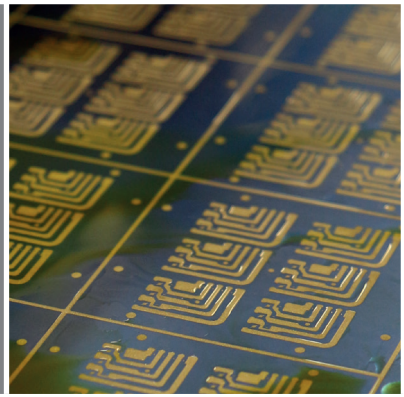


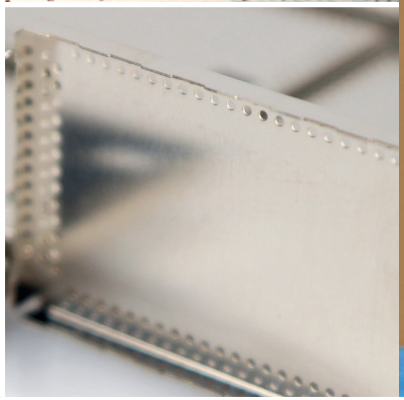
Etching technology

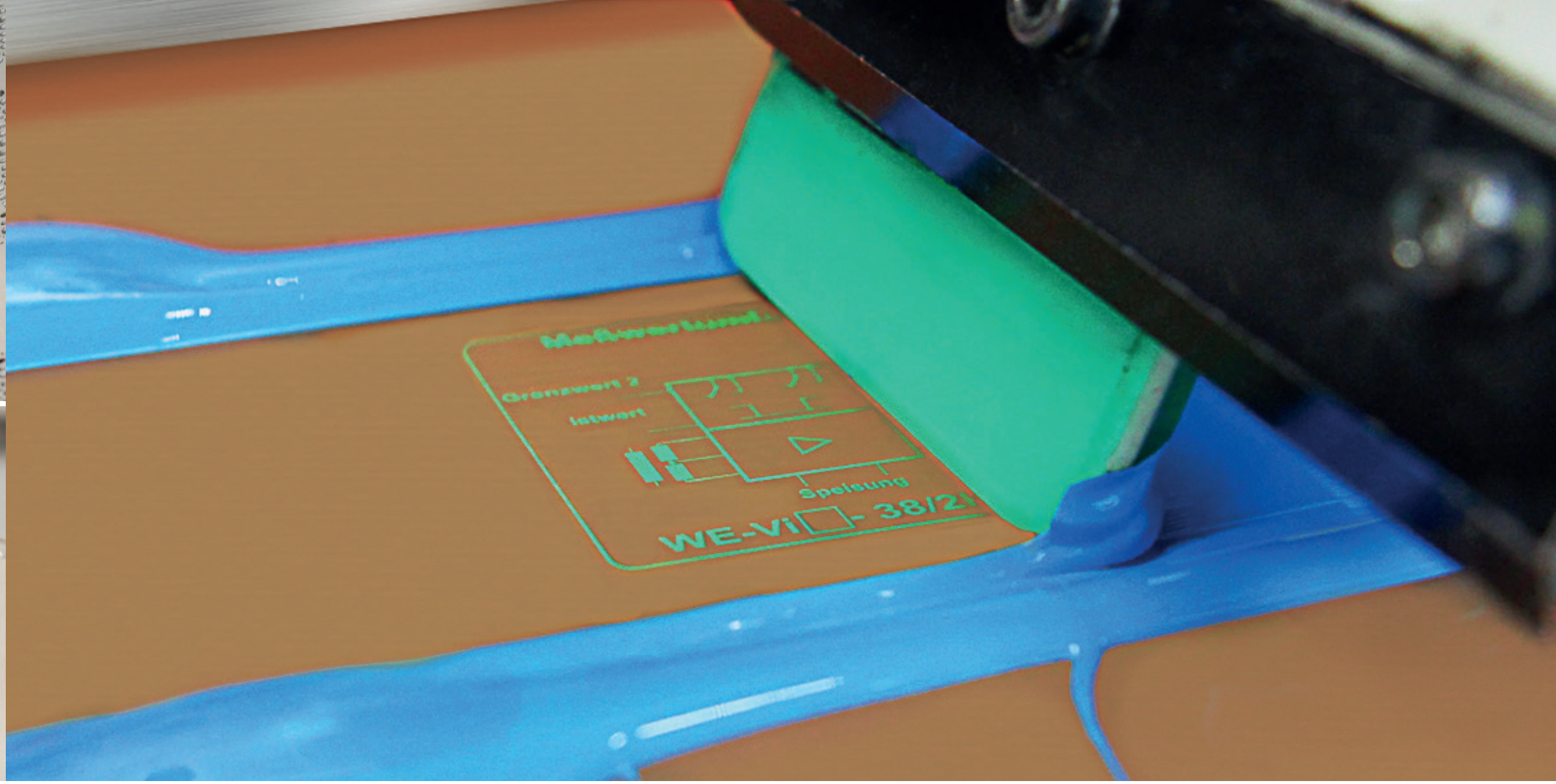
Etching is a photochemical process that allows contours to be created with extreme precision in thin sheets or metal foils, without burring or tension, via the removal of material. Using etching technology, we are able to manufacture special contour-etched parts such as shielding plates, code disks and model components. In many cases, the spray etching process is an effective alternative to punching and laser technology.











Screen printing

Almost all materials, surfaces and formats can be printed on with screen printing. This process is used in nearly all commercial and industrial sectors. Using screen printing, we can produce stickers, signs, maintenance and safety labels, road signs, special foils and more in a wide range of shapes and designs.

Pad printing

Pad printing is a special process for printing on 3D objects, and is used where other printing processes come up against their limits. It allows us to print on contoured objects such as casings, keys, optical lenses and promotional items. Using pad printing, we can print on almost every uneven surface, deepening or other contour, with high and consistent precision – even in multiple colours.

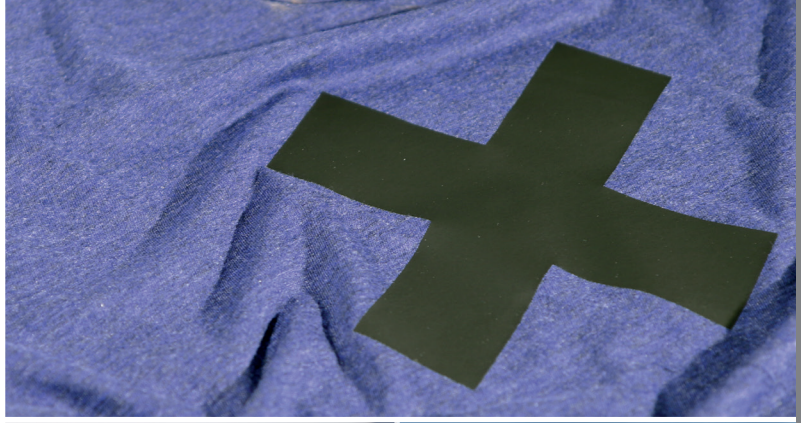
Photo: Circular Solutions GmbH

Digital printing

Digital printing involves the use of large-format printing, plotting and the innovative technology of UV printing. Using digital printing, we can produce industrial products, high-quality promotional material and items for trade fair set-up, such as cases, signage, labels, banners, display systems, posters, fine art prints and textiles. We are able to print on a wide range of substrates.

Textile printing

We are able to print on textiles using a variety of different processes. These include screen printing and transfer printing. We can also print on a wide range of clothing and materials. To do this, we use various heat transfer films, such as flex and flock films. Our diverse range of machines allows us to print even small quantities in multiple colours.

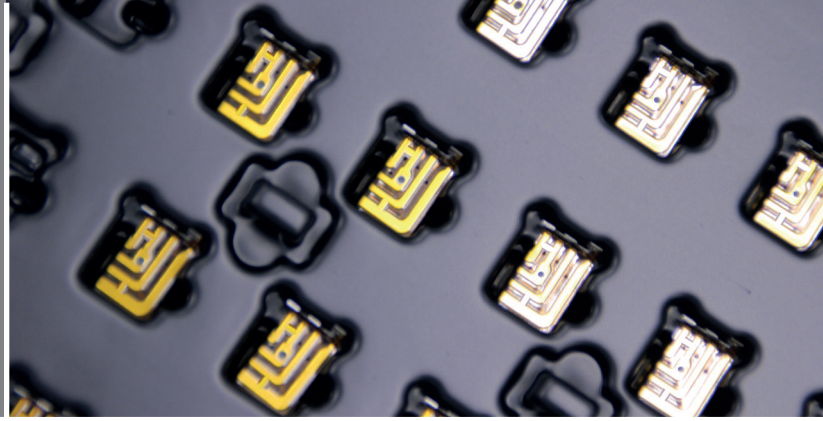


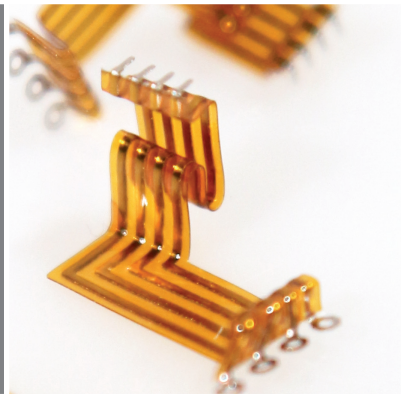
3D object printing

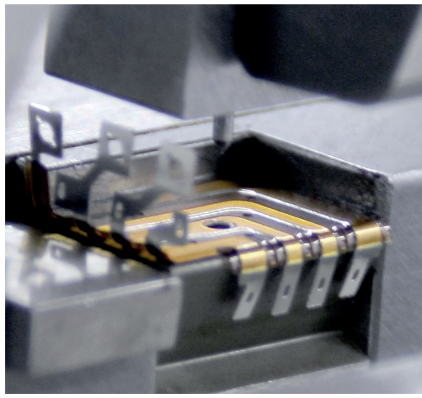
3D object printing covers various printing methods that allow us to print on contoured objects such as casings, keys, optical lenses and promotional items. These include pad printing, screen printing and UV printing. Thanks to our diverse range of machinery, we are able to accommodate your specific requirements and find the right printing method to implement them.

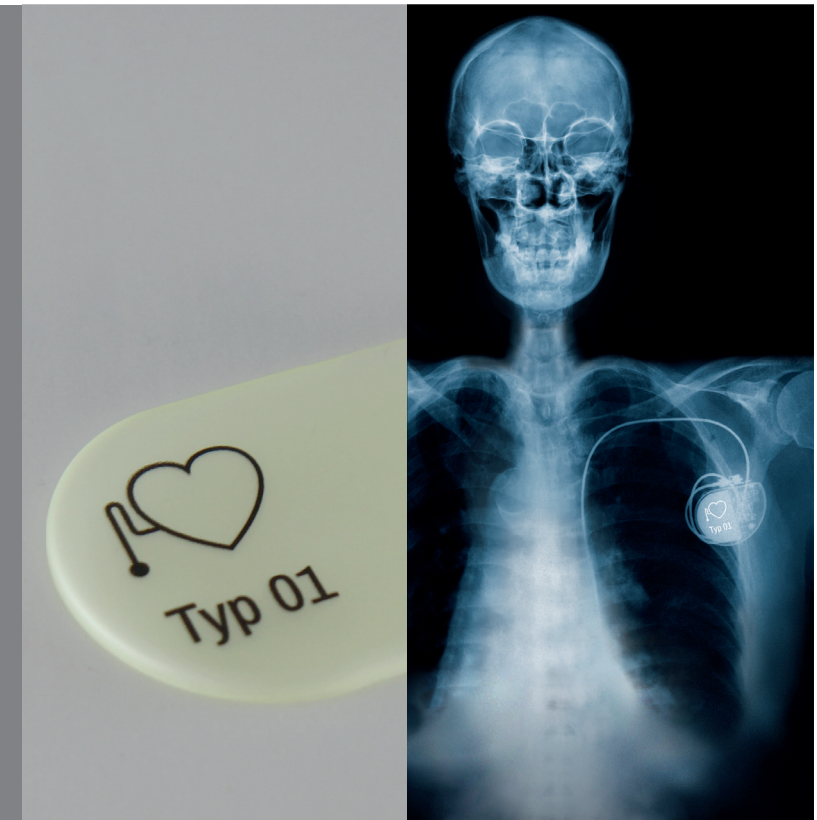
IsoLam®

The IsoLam manufacturing process was developed by us, and allows the specialised production of 3D printed circuit boards under clean room conditions. The IsoLam process also lets us produce flexible circuit boards. IsoLam is a registered process and complies with the stringent requirements of the medical technology sector.







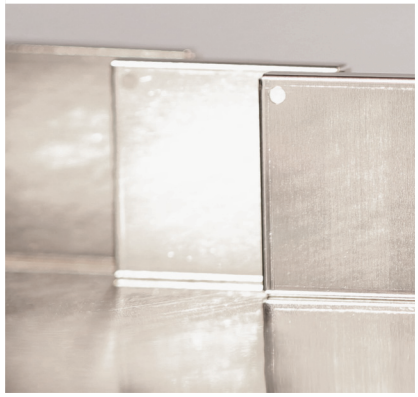


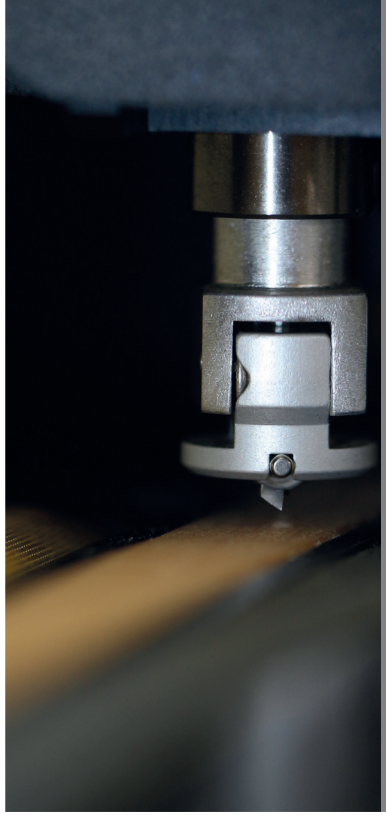
X-ray identification

To enable device information to be displayed in X-ray images, we are able to label insulating films for pacemakers, for example, with information on the manufacturer, model number and technical key figures. The printing medium used is a specially developed tungsten-ink mixture that meets the strict medical requirements regarding sterile, durable and abrasion-proof treatment.

Refinement & further processing

On request, we can also refine the finished items after manufacturing. We offer various processes including bending, painting, printing, laminating, gold plating, nickel plating, die cutting, kiss cutting and foil stamping.





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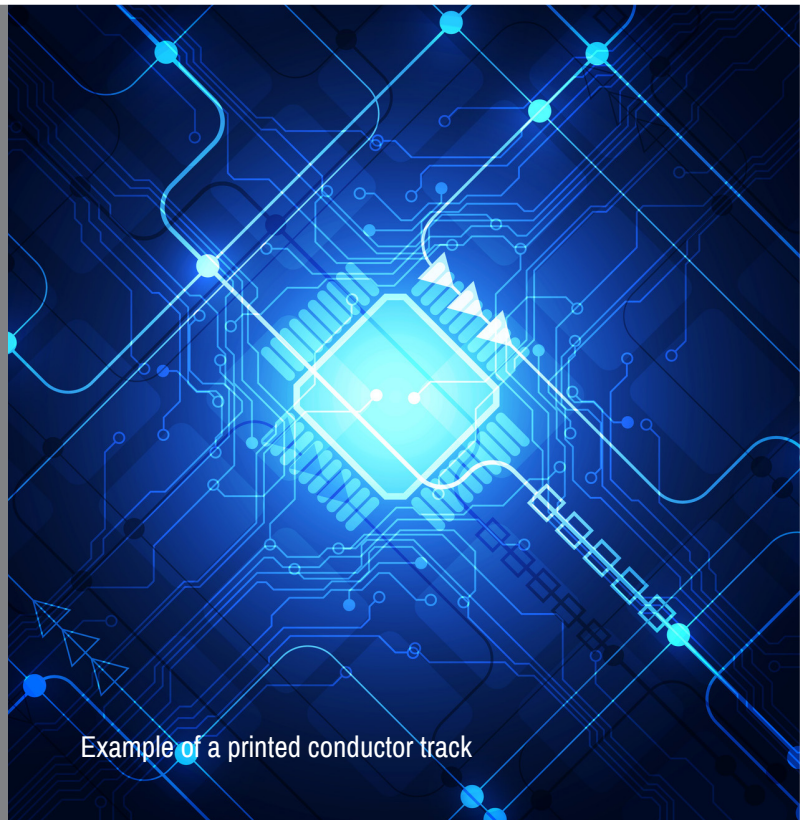
The future: printed electronics

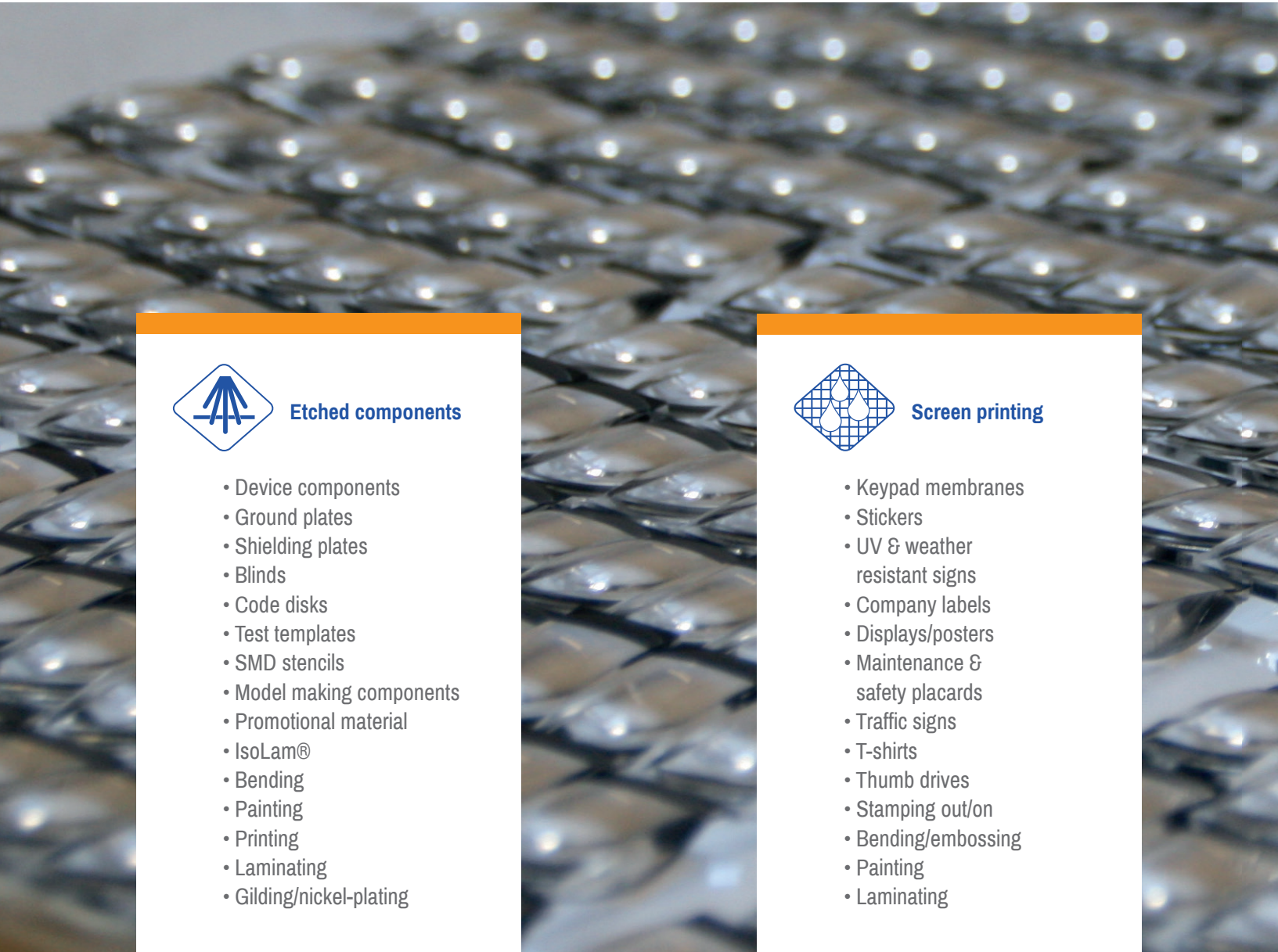
Almost all industrial printing methods can be adapted for printing electronic components. This applies to both mass printing processes such as gravure, offset and flexographic printing and to inkjet and screen printing. The advantages of screen printing include the high layer thickness when paste-like printing materials are used. This makes it particularly suitable for the production of conductor tracks, PCBs, antennae and →



Example of a printed conductor track

test strips as well as insulating layers, but also for printing organic semiconductors. The porous printing method, which involves using a rubber doctor blade to apply the medium to the print substrate through the openings of a template or through the mesh of a screen, produces long-lasting prints with high quality and edge definition. Screen printing can be used to print a wide range of materials and surfaces in all kinds of shapes and formats.

Our product segments



Etched components

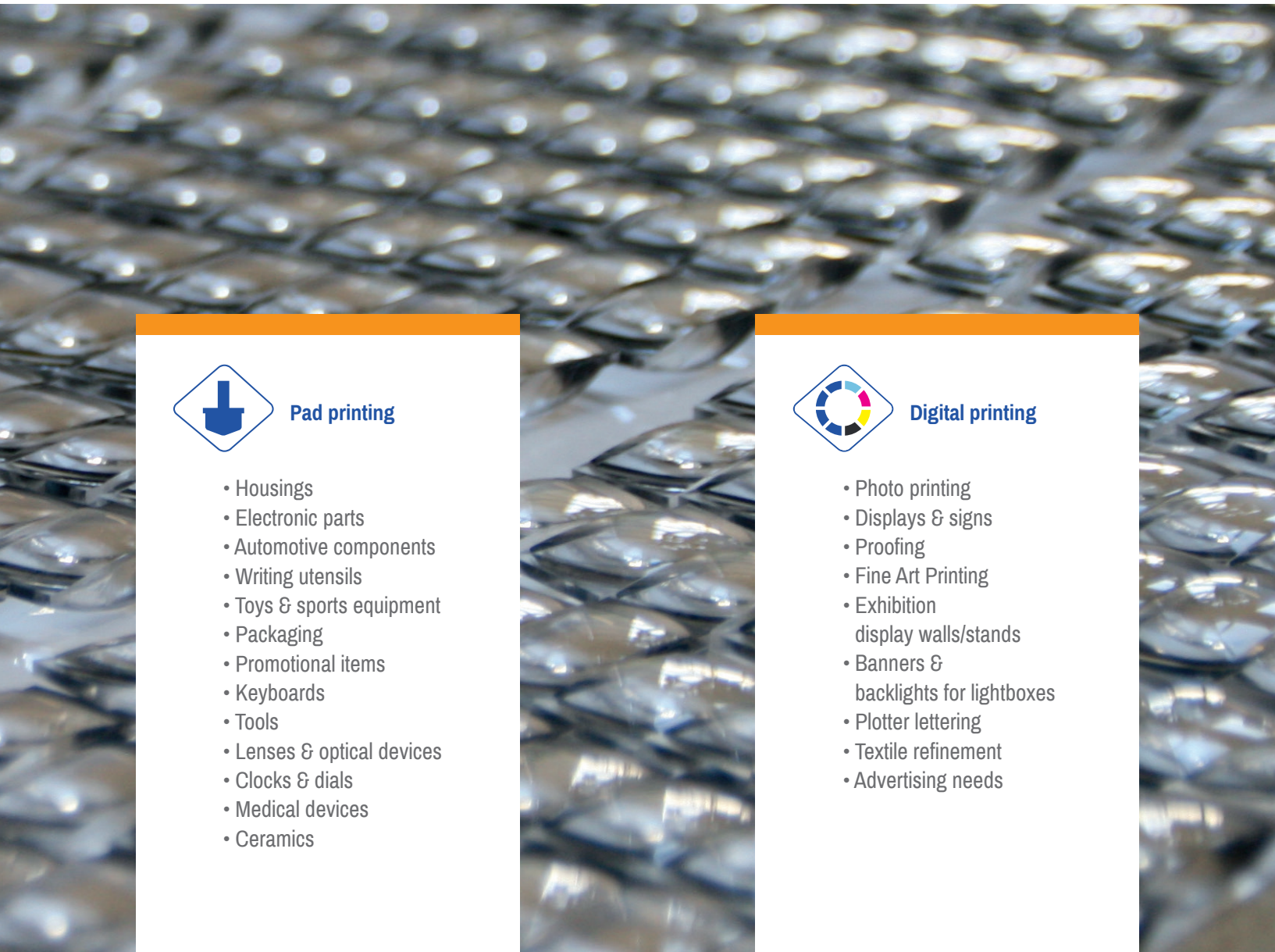
- Device components
- Ground plates
- Shielding plates
- Blinds
- Code disks
- Test templates
- SMD stencils
- Model making components
- Promotional material
- IsoLam®
- Bending
- Painting
- Printing
- Laminating
- Gilding/nickel-plating

Screen printing

- Keypad membranes
- Stickers
- UV & weather resistant signs
- Company labels
- Displays/posters
- Maintenance & safety placards
- Traffic signs
- T-shirts
- Thumb drives
- Stamping out/on
- Bending/embossing
- Painting
- Laminating

Are you looking for something special?
Please ask us!

As the leading company for special printing, we advise you individually and with competence from the idea to your product.



Pad printing

- Housings
- Electronic parts
- Automotive components
- Writing utensils
- Toys & sports equipment
- Packaging
- Promotional items
- Keyboards
- Tools
- Lenses & optical devices
- Clocks & dials
- Medical devices
- Ceramics

Digital printing

- Photo printing
- Displays & signs
- Proofing
- Fine Art Printing
- Exhibition display walls/stands
- Banners & backlights for lightboxes
- Plotter lettering
- Textile refinement
- Advertising needs

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We are happy to advise you and offer customised solutions!

Etched components • Screen printing • Pad printing • Digital printing

05/2019