UNION KLISCHEE

Ätztechnik Spezialdruckerei

Medical technology

Etched components ◆ Screen printing ◆ Pad printing ◆ Digital printing

Union-Klischee

Tradition and innovation hand in hand – that's our recipe for success.

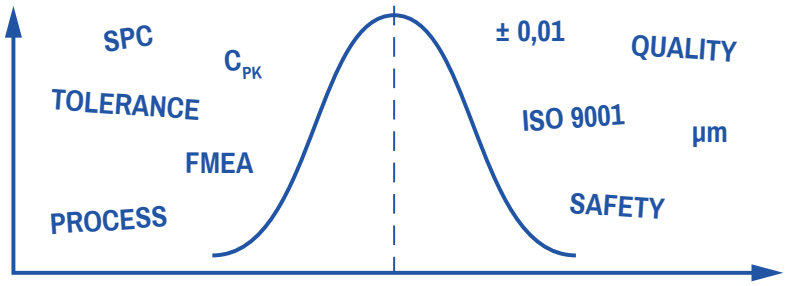
We are a specialist in etched components, screen printing, printing on 3D objects, and digital printing with over 40 years of experience. As a single source for these diverse printing technologies and production processes, we are able to offer a wide range of products as well as the full scope of pertinent services.

Our customer base includes industrial companies in the fields of medical technology, measurement and sensor technology, precision engineering, and mechanical engineering. In addition, we also serve model making firms, public service institutions, advertising agencies, and private individuals.

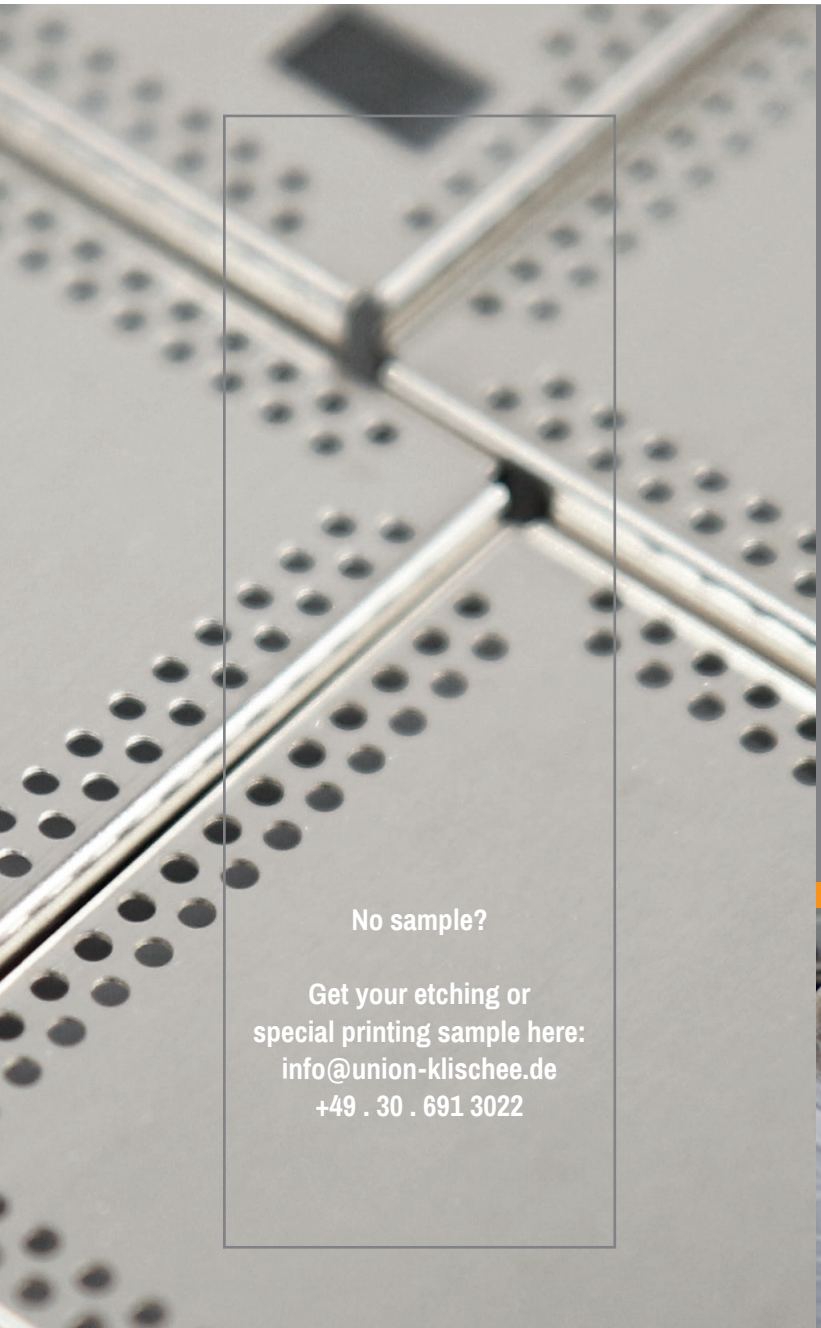
You, too, can benefit from the experience and expertise of our specialist team. **We look forward to developing new projects and technologies together with you.**

Get in touch! We are happy to advise you.

We vouch for high-quality, customer-oriented cooperation you can trust in based on DIN EN ISO 9001 quality management.



TÜV NORD
certified acc. to
DIN EN ISO 9001



No sample?

Get your etching or special printing sample here:
info@union-klischee.de
+49 . 30 . 691 3022

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

1998 Introduction of digital printing & plotting

2004 Introduction of large-format digital printing

2008 ISO 9001 certification

2010 Legal form and name change to UNION-KLISCHEE GmbH

2013 Introduction of direct UV printing process

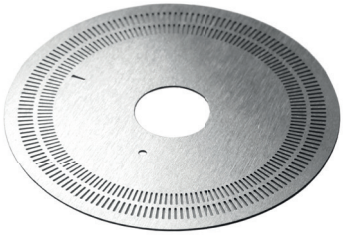
2014 Patentierung von IsoLam®

2017 Relocation to double the production area

Total production area space: approx. 2000 sqm
Staff members: approx. 20

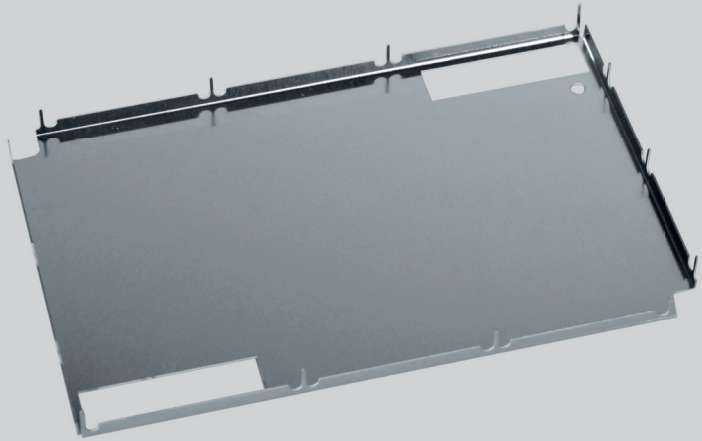
Etching technology

Etching is a photochemical process to remove material from thin metal sheets and metal foils in order to create extremely precise contours, free from burrs or material strain. We can apply this process to manufacture special etched components such as shielding plates, code disks, and model making components. In many cases, spray etching is a better alternative to punching and laser technology.

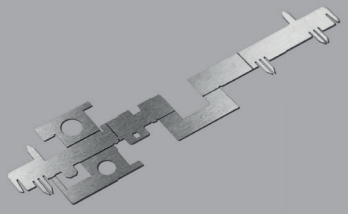


Code disk

Spring

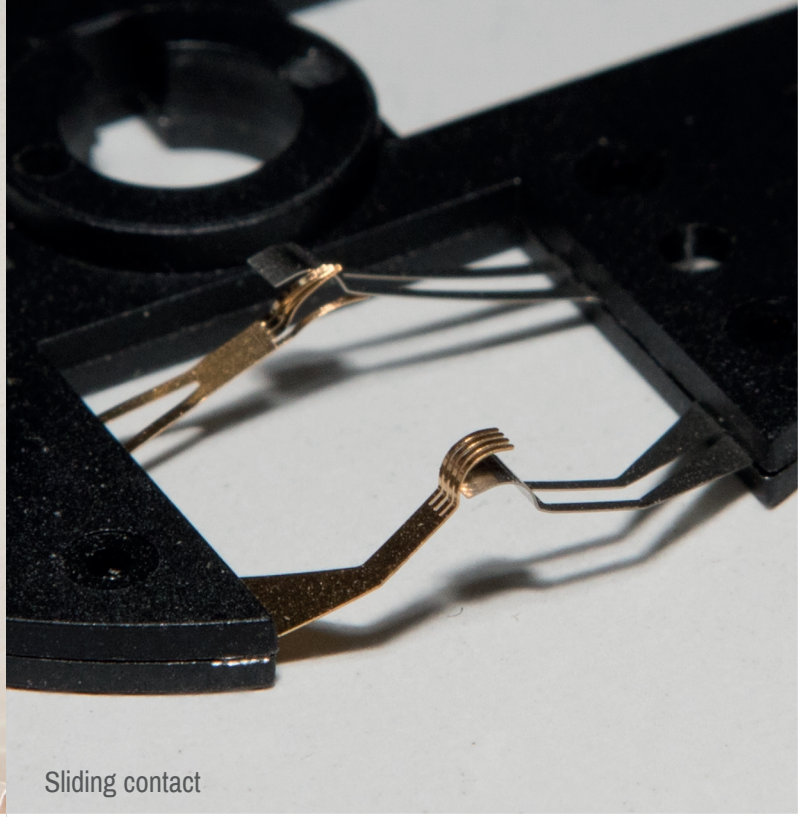


EMC cover

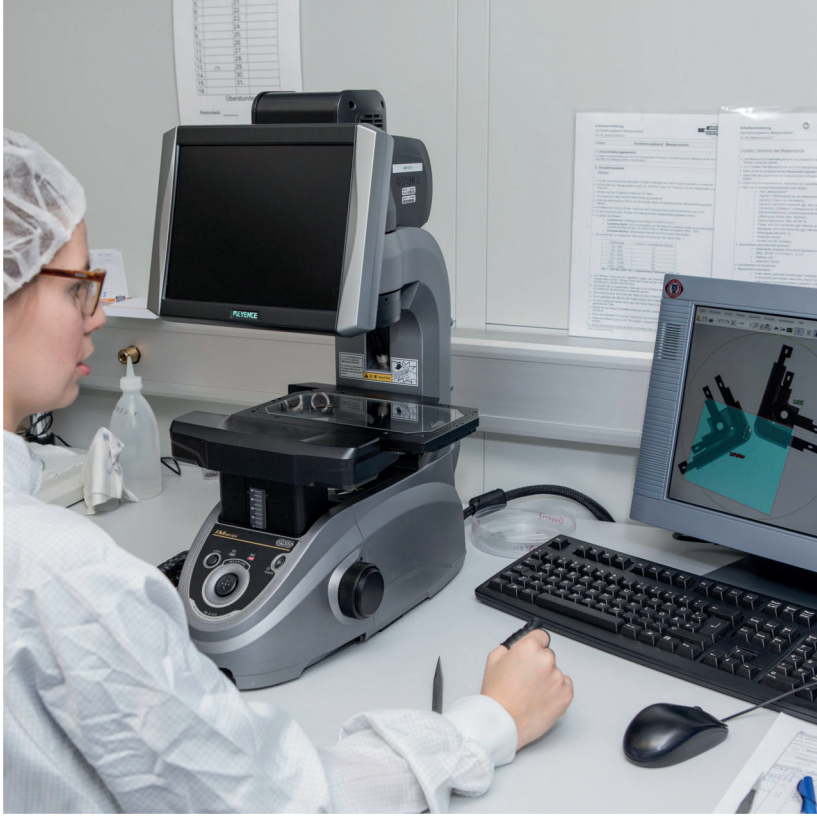


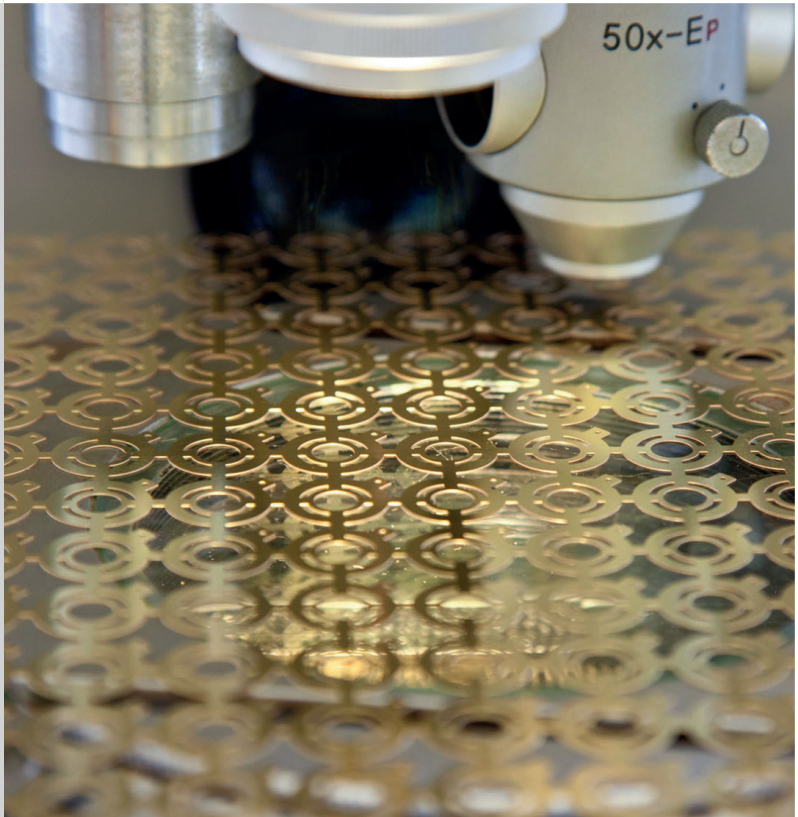
Device part

Fine mesh screen



Sliding contact

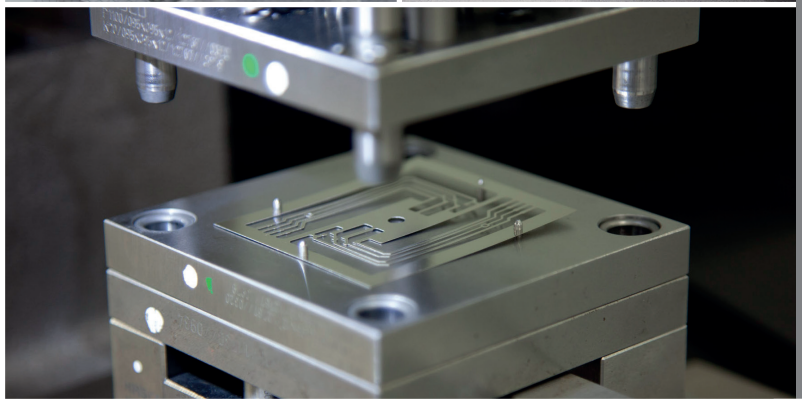


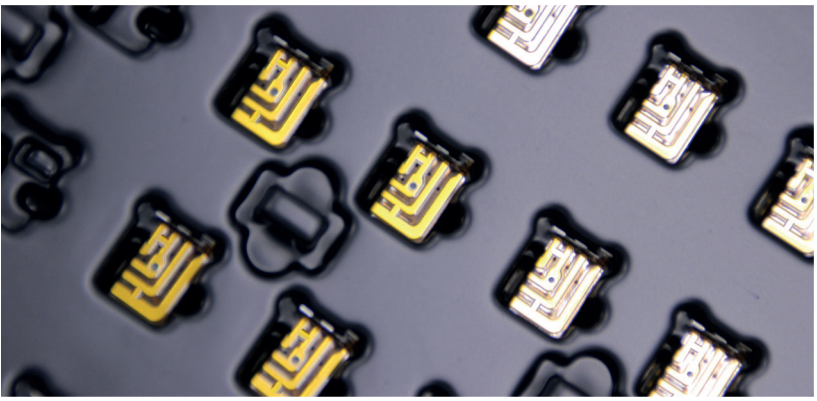


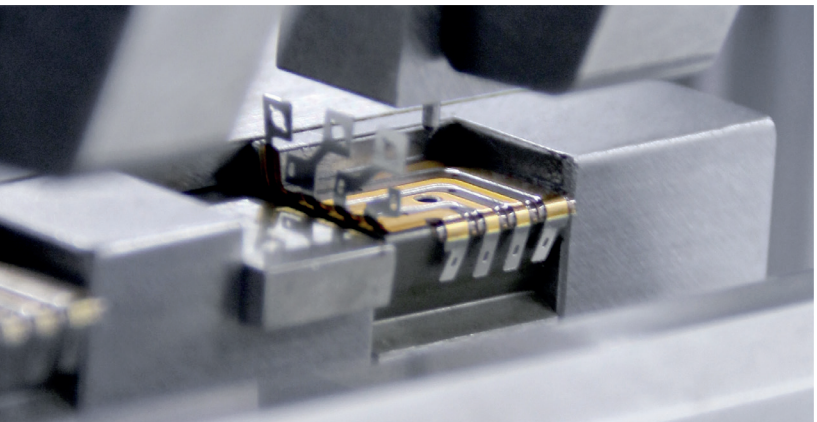
Contact spring

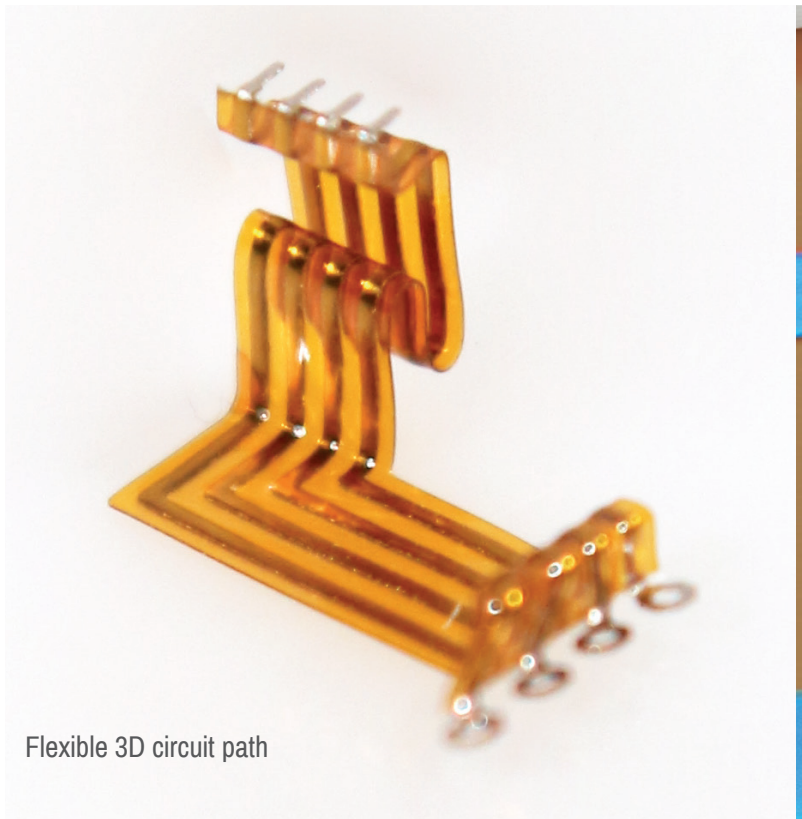
IsoLam®

The proprietary IsoLam process, an in-house development, enables us to manufacture 3D conductor paths under cleanroom conditions. The IsoLam process even allows us to produce flexible PCB tracks. IsoLam is a registered manufacturing process and meets the highly demanding requirements of medical technology.









Flexible 3D circuit path

Screen printing

Screen printing is suitable for almost all materials, surfaces, and formats. It is used in most sectors of industry and trade. Our screen-printing range includes customized stickers, signs, maintenance & safety placards, traffic signs, and special foils in all shapes and styles.

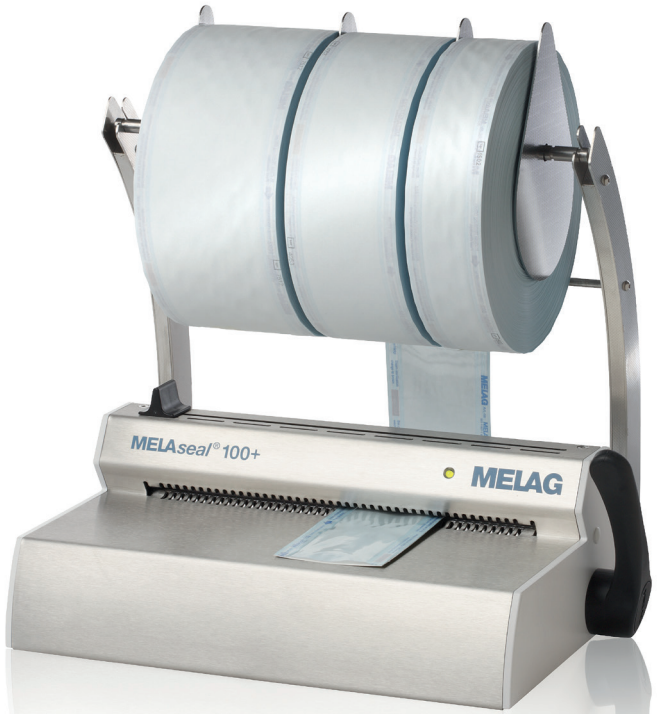
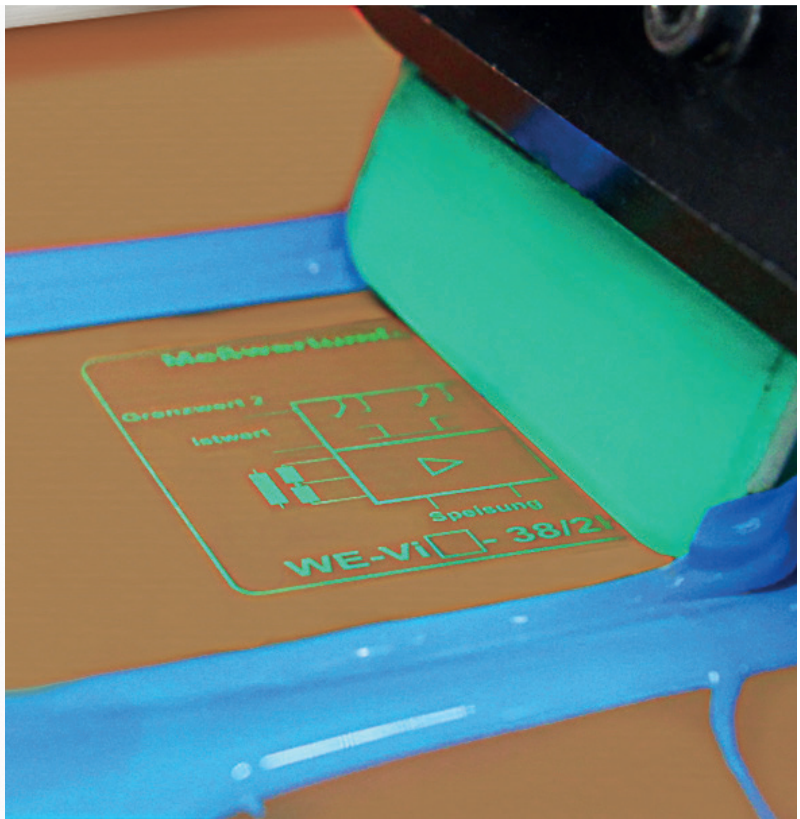
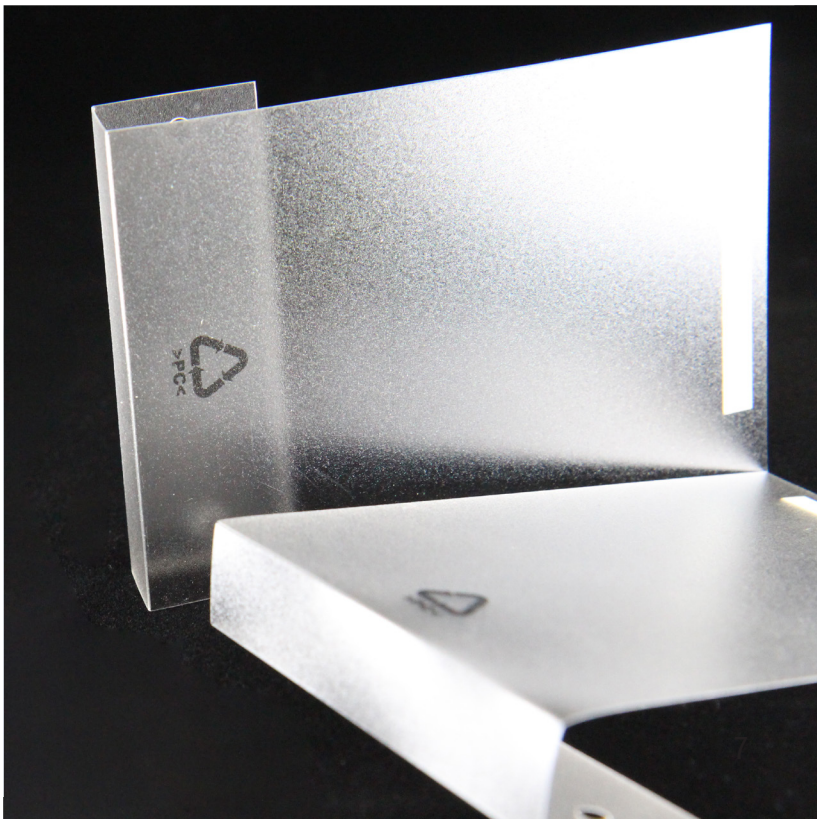


Photo: MELAG Medizintechnik oHG

Enclosure





Pad printing

Pad printing is a special method for printing on three-dimensional bodies. Where other printing processes are limited by design, pad printing can deliver exceptional results. This technique enables printing on objects such as enclosures, pushbuttons, optical lenses, and promotional items. By means of pad printing, we can print on almost any uneven surface, recess, or other shape, always ensuring superior and uniform precision – including multicolored prints.

Butyrometer


Optical lenses

3D objects

Digital printing

Digital printing brings together large-format printing, printing on 3D objects, plotting, and the innovative technology of direct UV printing. We use digital printing to manufacture high-quality products for medical technology, comprising anything from signs e.g. plastic suitcase, enclosures, labels, banners, display systems and textiles. We can print on a large variety of substrates.

Plastic suitcase

Scale discs

Patch dispensers

Textile printing

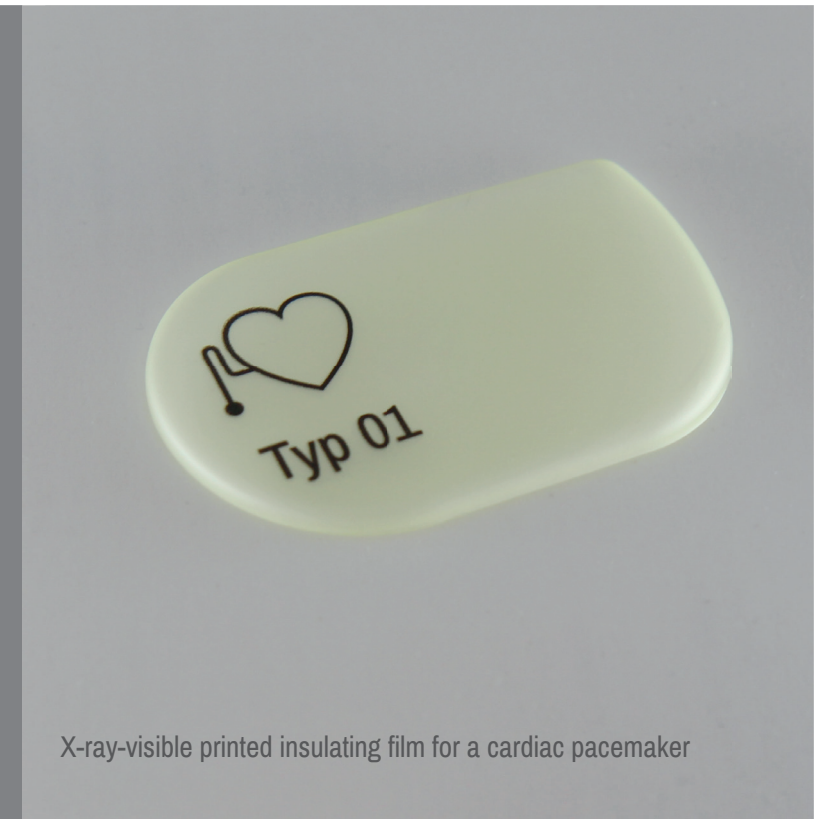
We have various methods for printing on textiles at our disposal. These include screen printing and transfer printing. In addition, we can print on a wide range of clothing and materials. We use various films, such as flex and flock films. Our versatile machinery allows us to print even small quantities in multiple colors.

Refinement & further processing

Finished articles can be further refined and machined. Our scope of services notably includes bending, painting, printing, laminating, gilding, nickel-plating, stamping out/on, and embossing.

X-ray-visible printing

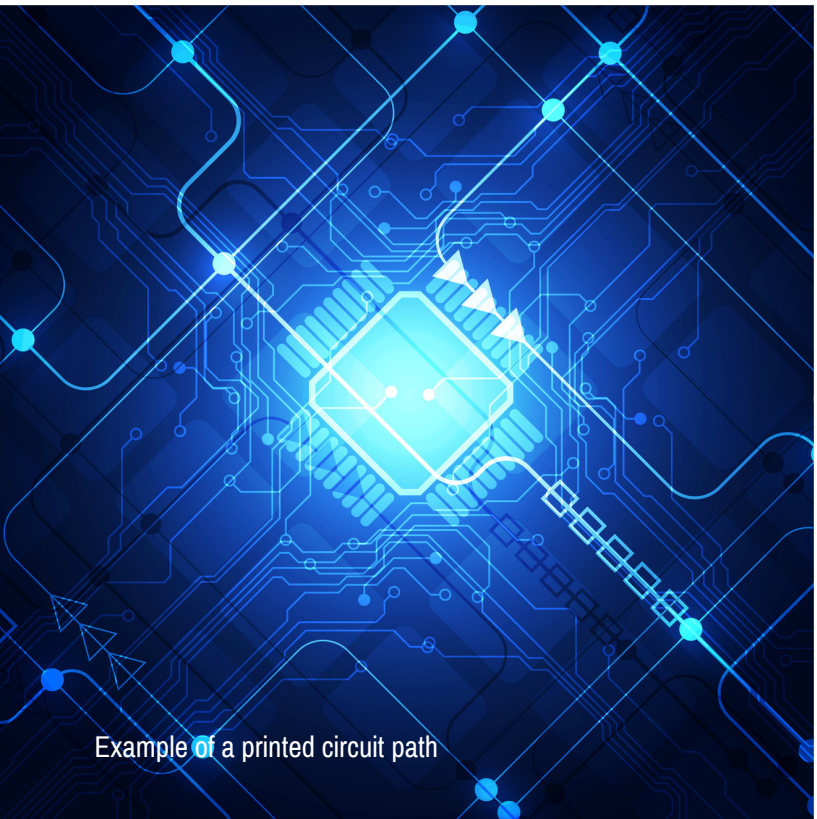
To make important device information readable on x-ray images, such as the manufacturer, model number, and technical parameters for a cardiac pacemaker, we can for instance print them on insulating films. We use a specially developed tungsten-color mixture that meets the high standards for medical technology, ensuring sterile, long-term durable, and abrasion-resistant printing.



X-ray-visible printed insulating film for a cardiac pacemaker

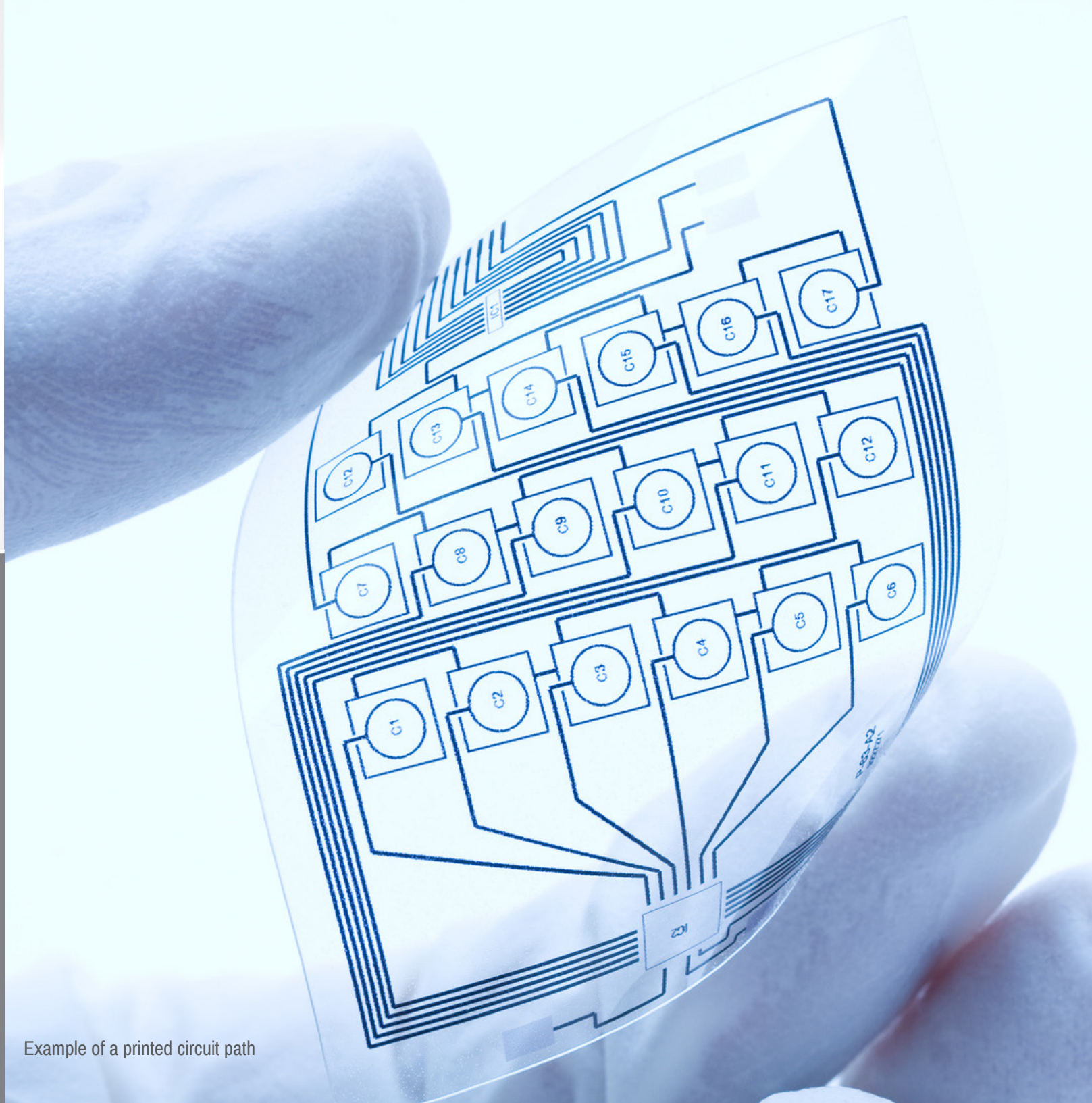
The future: printed electronics

Almost all industrial printing processes can be adapted for printing electronic components. This includes mass-printing methods such as intaglio, offset, and flexo printing, as well as inkjet and screen printing. Screen printing can yield a high layer density based on paste-like print materials. This makes it an ideal process for manufacturing circuit paths, entire PCBs, antennas, test strips, or insulating layers, and even for printing organic semiconductors.



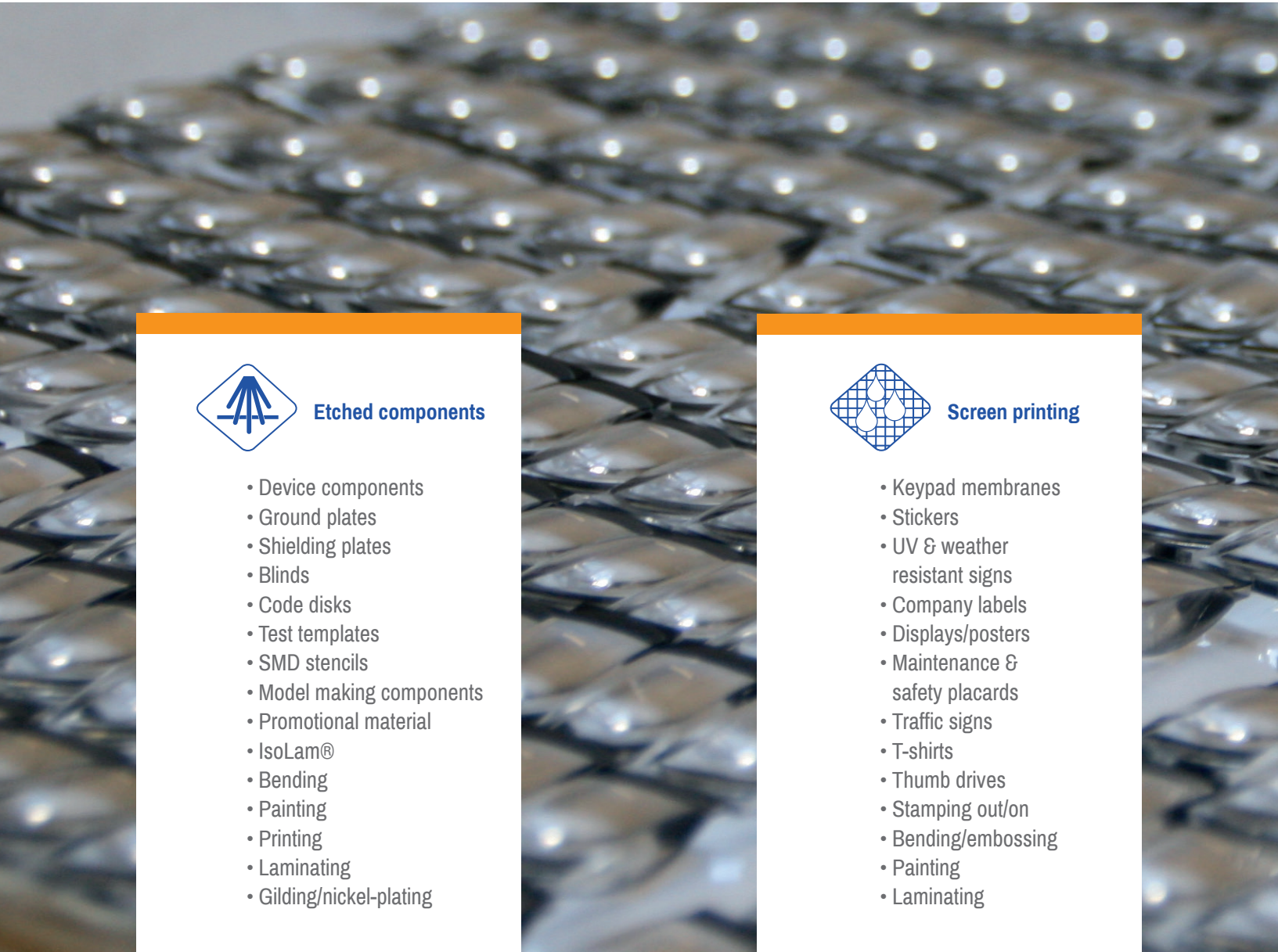
Example of a printed circuit path

The process for such applications is called screen printing. Using a squeegee, the printing medium is pressed through the openings of the meshes onto the base. The results are very long-lasting, high-quality, clearly defined prints. Screen printing is suitable for a wide range of materials and surfaces with all kinds of shapes and sizes.



Example of a printed circuit path

Our product segments



Etched components

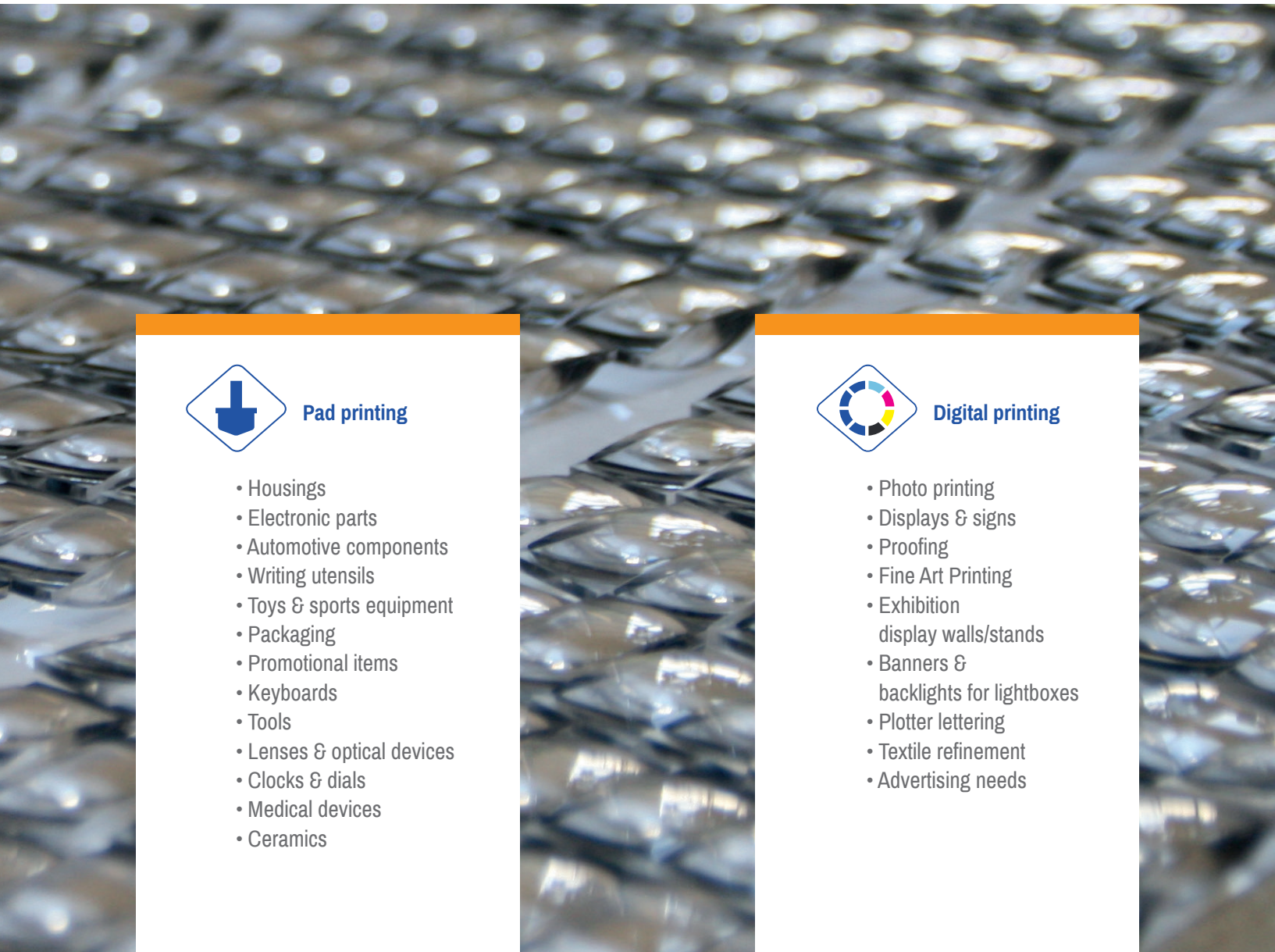
- Device components
- Ground plates
- Shielding plates
- Blinds
- Code disks
- Test templates
- SMD stencils
- Model making components
- Promotional material
- IsoLam®
- Bending
- Painting
- Printing
- Laminating
- Gilding/nickel-plating

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

UNION KLISCHEE

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Opening hours: Mon. – Thu. 7 a.m. – 3:45 p.m. and Fri. 7 a.m. – 2:45 p.m.

We are happy to assist you and offer you individual solutions!

05/2019