

solutions

prepress for special applications

- printed electronics
- tools
- r&d

solutions

Innovation through knowledge transfer.

Machinery, equipment and tools as well as research and development for our customers

Customer and service orientation have always been the core of our corporate culture. If necessary in order to meet our customers' demands, we go beyond the classic range of prepress products and services. Our portfolio is so diverse that we can profitably transfer our knowledge to other areas. In close coordination with our customers, we design specific machinery, special equipment or components. With our particular expertise in the field of nickel plating and nickel alloys, for example, we have perfected in-house developments such as microsleeves

Microsleeves



The little brother with the big job. We apply our expertise in the field of nickel plating and nickel alloys for specific in-house developments, too. Hence, we have designed a special microsleeve, for example, that is used as a functional unit for determining the ink transfer in office printers. The sleeve has a diameter of approximately 40 mm and is 370 mm long. The challenge here was to apply a wafer-thin layer of 30-35 μ of nickel and then copper and to structure the surface according to very specific criteria.

Printed Electronics



Functionality on the smallest of areas. Printing electronic circuits is a complex task. In gravure and silkscreen printing, the requirements on the printing forme are very specific because the printed elements need a particular depth with extremely fine line widths. Also, there is the fact that the corresponding printing liquids are not comparable with normal inks or varnishes when it comes to their consistency. Specific pastes are frequently used for this purpose and they have very different transfer and flow characteristics. Only when all factors work together perfectly can the functionality of the circuits be assured.



and special silkscreen printing formes. In cylinder engraving, we constantly strive to make the potential of the latest laser technologies usable for new applications such as 3D embossing structures that are accurate in every detail.

Implementation of the smallest electronic circuits (printed electronics) in silkscreen and gravure printing is one of the tasks in our Solutions business field. Here, our experience relating to the production of printing formes, the properties of printing liquids and other parameters

of the printing process help us use this promising technology profitably for our customers. And we use our knowledge regarding the complexity and weaknesses of the prepress process to optimise workflows from a logistical point of view.

The examples below are just a small selection of what we can do. If you want to know more, please give us a call.

CylHub®



Double the added value through cylinder refurbishment.

Storing cylinders incurs considerable costs for printers. With CylHub® we have developed a sustainable concept that offers financial benefits for all involved and, above all, helps protect the environment: Printers can sell old cylinders to CylHub®. There, we refurbish them and sell them on as required. This saves on storage costs and also provides the ability to purchase new steelbases made from high quality recycled materials at significantly lower costs.

Embossing cylinder



Exciting surfaces through 3D embossing. Within the framework of various research and development projects, we use the latest laser technologies and are continually expanding their range of applications. Here, the field of embossing in particular offers very exciting possibilities. In addition to the traditional engraving in copper, we are also experimenting with alternative surface materials and are optimising the use of three-dimensional embossing structures.

Growth and market orientation. What began in 1976 with printing copies in the decor sector is now a global company for prepress solutions. Through our branches around the world we serve



four prepress-specific markets with a broad range of products and services. Our success story is based on consistent focus on our customers and their markets.



Our promise to our customers. To provide our customers with professional support we seek active dialogue. We review their specific requirement and develop the right solution.



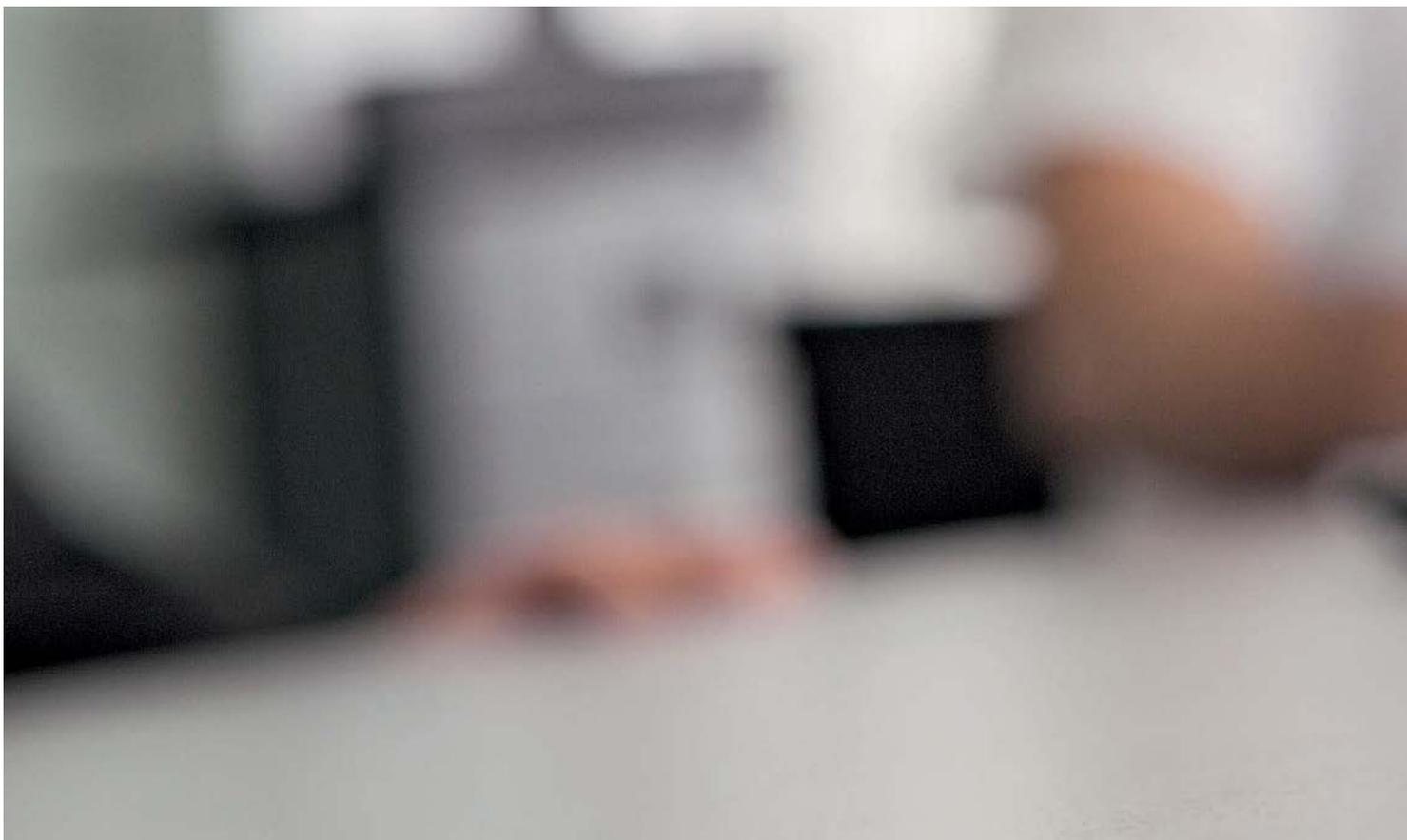
People for quality. We operate in a highly innovative environment and serve a wide variety of markets. New trends, products, technologies or even process structures are part of our everyday life at work. The entire prepress process is very complex and brings significant potential for friction losses. Moreover, each of the respective target markets has its own regularities and dynamics. In the end, it is our staff who give the decisive impact on the road

to individual and high quality prepress solutions. They are responsible for content and they also have to ensure that everything comes together seamlessly during implementation. Hence, not only are they highly qualified in their particular specialist area, they also receive constant further training. After all, it is the interplay between process competence, market expertise and specialist knowledge that ensures our high quality standard.



For us, the combination of customer focus and competence provides a strong foundation for any prepress solution. This is why we seek active dialogue with our customers and are constantly working to improve our products and services.

Knowledge and experience. We leave nothing to chance. We plan every detail and ensure meticulous implementation.



A love for detail. Our passion is to do things well. Our extensive specialist knowledge and market expertise are essential in this respect, but only when we combine these with years of experience are we able to perfect our prepress solutions. It is precisely this combination that makes us a competent partner for our customers.



Janoschka.

The quality people for individual prepress solutions

packaging



prepress for labels and packages in different markets

We ensure convincing and consistent staging of your products. Whether it is cardboard packaging, flexible packaging or labels, uniformly high quality standards apply worldwide to our prepress solutions.

decor



prepress for interior and exterior design

In the decor sector, we are interested in achieving vibrant surfaces. We know how wood, stone or design decors blend into facades, furniture or floors. We also create small works of art on gift wrap and textiles.

security



prepress for printable objects

Our many years of expertise and maximum precision in the manufacture of gravure cylinders qualify us for security printing. We are optimally equipped for this market thanks to our highly innovative technologies.

solutions



prepress for special applications

We are as versatile as our customers. To satisfy the most varied requirements, we offer special applications, machines and tools. Furthermore, we participate actively in research and development projects.

■ fmcg

■ tobacco

■ print

■ pharma

■ architecture

■ interiors

■ gift wrap

■ tissue & textile

■ automotive

■ bank notes

■ documents

■ packaging

■ printed electronics

■ tools

■ r&d

