

CREATING DESIGNS

Wallpaper, Flooring, Surfaces – Creativity in Highest Precision



SAUERESSIG®

A Matthews International company

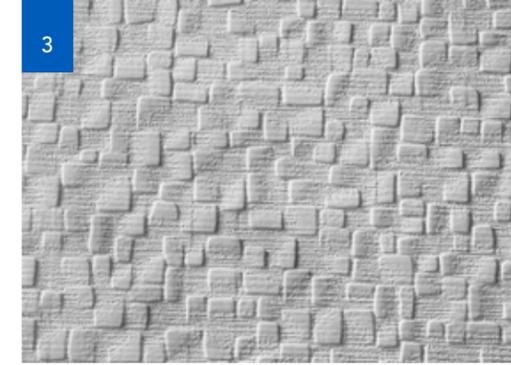
Competence through Service and Performance

WE CREATE YOUR SUCCESS

Increasingly ingenious wallpaper and decor designs require the most sophisticated production technologies. Growing demands for the finished product require increasingly complex processes. We know the market demands that you need to live up to each day. This is why we provide pioneering work for you – with innovative spirit and a sense for current trends. The idea is one thing, the technical feasibility the other. We take both aspects seriously and know that perfection is in the details – no matter whether it is about the wallpaper, the flooring or other decorative industries.

In serving the flooring industry, we benefit from our close cooperation with SAUERESSIG Design Studio in Mönchengladbach, Germany; one of the leading, independent studios among European suppliers of decorative reproductions. SAUERESSIG Design Studio mainly focuses on the creation of wood, stone or phantasy decors for living applications.

We would like to be the partner at your side during the implementation of your design idea and the development of your new product ranges. We put strong emphasis on both flexibility and reliability to ensure smooth processes. We obtain the know-how to support you along the entire process chain – from design to printing and embossing tools to a complete production plant, including individual customer support and advice. Reduced processing times, state-of-the-art products and ultimate customer satisfaction are our objectives.



TRENDS, & INNOVATIONS & HIGHLIGHTS

In Touch with Latest Trends

DESIGN TRENDS

Teams of highly qualified specialists use their entire experience to constantly develop new designs in touch with the latest trends. We always keep our fingers on the pulse and follow latest trends and developments in order to create competitive advantages for our customers.



From Idea to Reality

3D WORKFLOW

Our innovative 3D workflow significantly accelerates design development – both internally and externally. Traditionally, test laser engravings and test etchings had to be produced. We have re-invented this process and now use printers throughout the entire reproduction phase. After 3D scan and the subsequent reproduction we use detailed 3D prints for proofing and that way achieve major cost and time savings.

Pioneer in Laser Engraving

SHORT-PULSE LASER

With the development of ultra short laser pulse engraving we have ushered a new era. A wide range of diverse metals and further materials can be processed and engraved with our ultra short-pulse laser, such as copper, aluminum, ceramic, glass, non-porous metals and synthetic or ultra hard materials. Reproductions can be implemented with highest accuracy and finest 3D structures can be created – for a new level of quality.



The Surface Innovation

HELENIUM II

A surface that can be directly structured three-dimensionally by means of laser technology, in virtually any fineness – for previously unknown 3D design structures. That is what Helenium is all about. Helenium is especially suited for decorative applications. In particular, it is predestined to achieve a very matt surface on the finished product.

In addition, the plastic surface reduces tooling costs and delivery times – and thus meets the trend towards shorter design life cycles.

Developing, Testing, Perfecting

TECHNICAL CENTER

At our in-house technical center customers have the possibility to produce small batches with their original materials. A variety of test embossing rollers with diverse engraver surfaces is available. Of course, we can also produce test embossing rollers with your individual design. Material widths up to 600 mm can be refined at our test plant.

DIRECT LASER ENGRAVING

We put emphasis on laser technology and have developed and patented a large part of our laser technology ourselves. By special engraving processes unique structures can be realized on a variety of materials with high accuracy. The desired surface is transferred into three-dimensional data via exclusive scanning methods. Afterwards, it is transmitted onto the roller by means of direct laser engraving.

ROLL EMBOSSING

Roll embossing (for the non-woven process) involves rolling the pattern into the roller surface using a hardened positive die. This way, the embossed surfaces show a very low surface roughness, which ensures long-term reproduction quality. The surfaces are three-dimensional, clearly defined and convince with a repeatability of 100 percent.

Setting New Standards

GRAVURE FORMES OF HIGHEST QUALITY

We manufacture gravure cylinders and sleeves for your individual applications in the decorative industry, such as for wallpaper, decor, flooring and PVC printing.

In other words: We master the known technologies. Our advantages are that we have all the production processes and technologies at our command at the same time and that we are able to combine them all.

We reproduce, de-chrome, re-chrome, galvanize, engrave, laser, etch and direct structure. In all dimensions, for all types of printing machines, with various functional layers from chrome to ceramics.

The variety and constant development of our innovative methods put us in a position to find solutions for new challenges and to achieve a level of quality that meets highest requirements.

Powerful

TECHNOLOGIES & METHODS



LASER ETCHING

To produce durable and powerful tools, we also make use of modern laser etching technology. Laser etching is a very efficient method for the manufacture of printing and embossing tools, as well as for the refinement of various materials.

HAND ENGRAVING

Hand-engraved and laser-assisted our rollers make the unsuspected possible. According to customer request, we manufacture embossing rollers for the wallpaper industry in the traditional hand engraving technique. The integration of latest digital laser technologies – together with our traditional engraving – allows us to enter new design dimensions.



In our daily work our recipe for success is as much conventionality as necessary and as much individuality as possible. We always focus our work around our customers' needs and develop new ideas, technologies and patents in order to serve our customers in the most individual and optimal manner.

For a Lasting Impression and Unique Feel

CUSTOM-MADE FINISHING TOOLS

Embossing Rollers

MAXIMUM DIVERSITY

Our embossing rollers are offered for all embossing processes; in copper, steel or plastic coated. The rollers are laser cut, 3D or multistage etched, hand-engraved or roll embossed. They have an overall length of up to 6.000 mm, a maximum diameter of 620 mm and a maximum total weight of 6 tons.

Screens

SYMBIOSIS OF MANUAL & DIGITAL

Lacquer Screens

We manufacture screens for the decorative industry on the latest laser systems. In doing so, we have the most modern laser technologies at our command. The symbiosis of manual drafting at our in-house drawing studio and digital reproduction with the latest image processing technologies ensures a creative, qualitative implementation of designs.

Technical Screens

Our technical screens for your precision applications impress with exactness and reproducibility. They are especially suitable for coating applications.



Technology and Service from a Single Source

SAUERESSIG ENGINEERING

Many years of experience and specialization make us a reliable and innovative full range supplier of calenders and production plants – both in standard and special version. Particularly for the hot embossing and decor industry we offer complete plant systems as well as individual units for embossing, finishing, smoothing, coating, perforating and calibrating. We offer a product and service portfolio that meets highest quality standards and is forward looking for many industries.

Sleeve Change Calender

Faster, better, more compact! The use of our sleeve change calenders guarantees the highest production dynamics, integrated time savings and flexibility.

We have developed a unique concept in which the sleeve is changed in the machine itself, allowing for shorter setup times and increased productivity. Thanks to integrated bending compensation and digital technology various products can be manufactured with this technology.

Hot Embossing Calender for Refinement

Our hot embossing calenders refine the finish of wallpaper, decor and furniture; meeting the stringent demands of our customers and their markets.

The calenders can be installed into existing lines, but can also be operated offline. The machine speed is infinitely variable. Processing widths of up to 4.500 mm can be realized.

WORLDWIDE COMPETENCES

Since 1953, SAUERESSIG, with headquarters in Vreden, Germany, is a leading manufacturer in the printing and finishing industry. Creative and innovative solutions form solid pillars of our philosophy. SAUERESSIG operates facilities in Germany, Poland, Great Britain, Russia,

Turkey and the United States, as well as additional representations and joint ventures worldwide. As part of Matthews International Corporation we have a strong network and are a reliable partner across all borders.



- Vreden, Germany
- Grenzach-Wyhlen, Germany
- Veliky Novgorod, Russia
- Moenchengladbach, Germany
- Poznan, Poland
- Warsaw, Poland
- Bristol, Great Britain
- Izmir, Turkey
- Istanbul, Turkey
- Milwaukee, USA





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Saueressig GmbH + Co. KG | Gutenbergstraße 1-3 | 48691 Vreden | Germany
T: +49 2564 120 | vreden@saueressig.de | www.saueressig.com

Wetzel GmbH | Solvaystraße 31 | 79639 Grenzach-Wyhlen | Germany
T: +49 7624 301 0 | grenzach-wyhlen@saueressig.de | www.saueressig.com