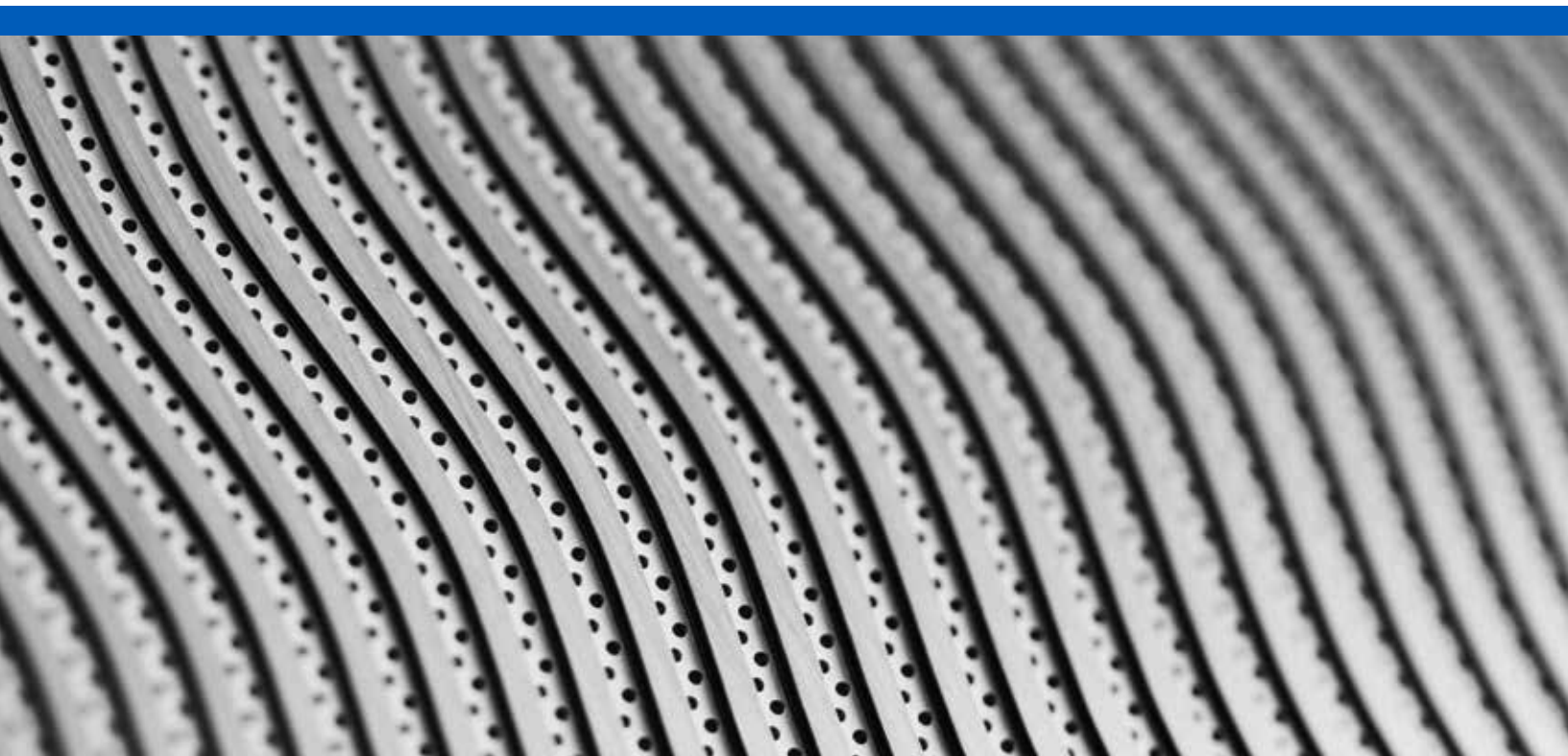


NONWOVEN DESIGN

Design for Aesthetic Perfection



SAUERESSIG®

A Matthews International company

WORLDWIDE COMPETENCES

Founded in 1953, SAUERESSIG, with headquarters in Vreden, Germany, is one of the leading manufacturers in the printing and converting industry. Creative solutions for diverse industries are part of our company's foundations.

We have office locations in Germany, Poland, Great Britain, Russia, Turkey and the USA, as well as further agents and joint ventures.

As part of Matthews International, we are part of a strong network and a proven, reliable partner for leading companies, beyond all borders.

■ Vreden, Germany] Nonwoven

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

PIONEERING TECHNOLOGY
FOR PERFECT PRODUCTION

WELCOME TO SAUERESSIG

The demand for ever more complex nonwoven product design requires the most sophisticated production engineering in order to meet increasingly advanced processes. We understand the market demands that you need to match up to every day. This is why we invest so heavily in pioneering research and

development for nonwoven products. With our innovative spirit and our knowledge of market trends, we have unequalled experience in surface processing and refinement, enabling us to keep ahead of the expectations of your customers.

7 Steps

TO THE PERFECT RESULT

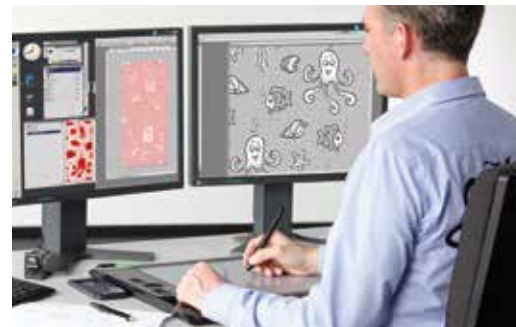
1. DESIGN DEVELOPMENT

Our own in-house design and reproduction department enables us to offer innovative solutions and pattern proposals for the most challenging demands of the Nonwoven industry. From the most simple design to the most technically challenging, our creations will always make a lasting impression with your customers.



2. REPRODUCTION AND 2D LAYOUT

Once you have chosen a design, we prepare the data for a test plate and use our technical understanding to ensure that what you choose will also be practical and cost effective to produce.



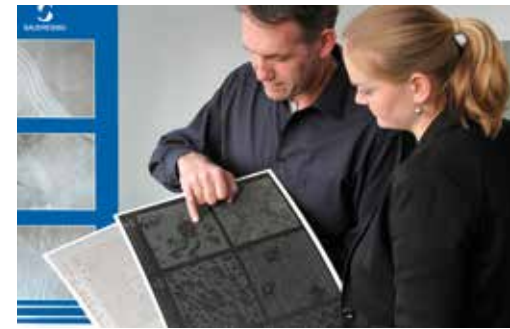
3. 3D-SIMULATION

In order to offer you a highly authentic image of the finished product we provide you with a 3D-simulation that accurately depicts even the finest structures. We are able to make fine amendments, if required, with speed and flexibility.



4. 3D-PROOF

With the aid of a UV-printer, we can simulate the drum and product structure for your individual design, before starting production. This shows the arrangement and accuracy of the hydroentangled wipe.



5. CELENIUM

We provide Celenium (composite) plates for trials on your machine or a pilot line.



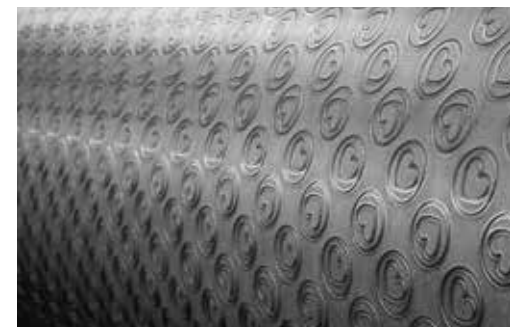
6. PILOT LINE

Each converter runs fibres and compositions with individual parameters. We have invented unique composite plates that can be utilised in the production line to ensure that there are no surprises in the final process.



7. PRODUCTION SLEEVE

Each drum is manufactured from 100 % pure nickel in 2D, 3D Galvanic+Laser/Etching or 3D Plating. Different production methods provide the full range of options that enable us to meet the demands of every manufacturer and our unparalleled experience ensures we always create the optimum result.



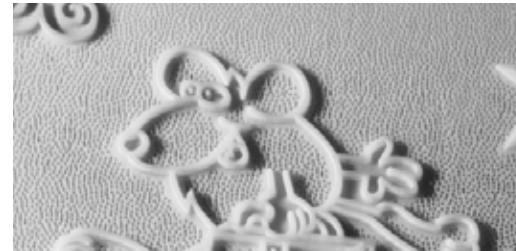
Developments and Highlights

EYE-CATCHING INNOVATIONS



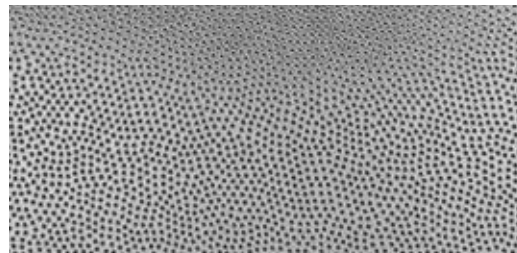
3D Basic Drum System

- Comfortable and quick change system with optimal dewatering



CELENIUM

- Plates for simulating production results



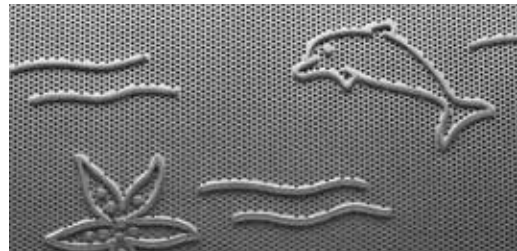
MPS

- Patented Fishskin pattern
- High quality at competitive prices



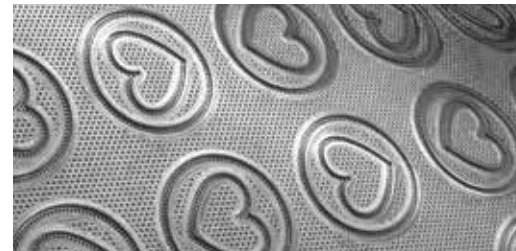
2D Drums

- Fast and inexpensive production
- Extremely tight fit on Basic Drum
- High Bulkiness



3D Galvanic+Laser

- Creation of different height levels in the finished products
- Contour reversed in comparison with 2D or 3D Plating



3D Plating

- Diameters up to 909 mm are covered
- Continuous contour
- Design with dewatering in all areas
- Maximum contrast with the best result so far in the market
- Superior product appearance

INNOVATION. AESTHETICS. PRECISION.

FOR A PERFECT PRODUCT EVEN
THE SMALLEST DETAIL MATTERS.



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