



*A customised MODULAR solution with computer-to-screen exposing G-WASH 175XS*

# A PARTNERSHIP TO CREATE OPTIMUM SCREEN MAKING

**Sandra Wörle, of Grünig/SignTronic, reports on the alliance of these two companies to provide efficiency, standardisation and automation in screen making for the screen-printing industry**

Screen-printing technology has established itself as an indispensable printing process across numerous industries. From the electronics and automotive sectors to textiles and packaging, it delivers the highest precision and flexibility. However, to face today's challenges – including rising costs, labour shortages and increasing quality demands – more than just modern technology is required.

Grünig and SignTronic have come together to elevate screen making to the next level. With its long-standing experience, the partnership offers customised solutions that guarantee efficiency, precision and sustainability.

## THE IDEAL PARTNER

Grünig and SignTronic provide a combination of the latest technology with decades of experience and expertise. The companies offer their customers the ability to make the screen-making process more efficient and sustainable. Their solutions result from

continuous innovation and close collaboration with customers.

Together, Grünig and SignTronic offer a comprehensive and modular portfolio that simplifies screen making. From frame preparation to the print-ready stencil, they deliver solutions that ensure the highest precision and maximum efficiency.

## WASHING AND DECOATING

Grünig's G-WASH series provides automated cleaning systems that enable thorough and environmentally friendly removal of ink residues, emulsions and ghost images. After exposure, screens are washed out to ensure precise development and quality.

## STRETCHING SYSTEMS

The Grünig G-STRETCH series offers high-precision stretching systems that ensure exact mesh tension and consistent screen quality. From manual stretching clamps to fully automated glueing and stretching robots,

these systems provide precise handling and guarantee constant screen quality.

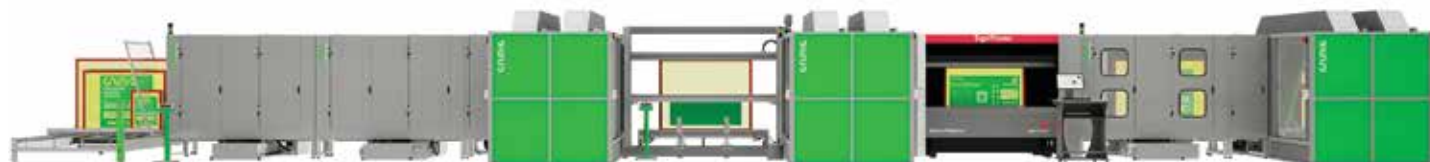
## COATING UNITS

The G-COAT series from Grünig, offers manual to fully automated coating units that enable uniform and reproducible emulsion coating. The series includes both compact versions for single coating and systems that seamlessly integrate into a complete IN-LINE process.

## DIGITAL SCREEN MAKING

The SignTronic StencilMaster computer-to-screen (CtS) system units feature state-of-the-art UV-LED technology for high-precision direct exposure without film. The StencilMaster can achieve razor-sharp printing results and benefits from a

***“Grünig and SignTronic offer a comprehensive and modular portfolio”***



*The whole IN-LINE solution from both companies*



The G-STRETCH 275 UV BOND LED – stretching and gluing system

cost-efficient solution that revolutionises the exposure process. These systems are available in front-loading, side-loading or IN-LINE models. They offer vertical exposure and allow even the smallest frames to be exposed in a single pass using Masterframes.

#### IN-LINE SYSTEMS

The MODULAR IN-LINE systems combine Grünig's cleaning and coating units with SignTronics CtS systems to create a fully

automated and seamless screen-making solution. These integrated systems maximise efficiency, minimise downtime and ensure consistent quality.

#### SCREEN MAKING FOR SUPERIOR PRINT QUALITY

The quality of the screen directly influences the printing process. Both Grünig and SignTronic ensure that every screen is manufactured with the highest precision



STM-MICRO Front-loading unit with master frame for small screens

through their system solutions. This results in razor-sharp print results, minimised waste and increased production speed. The companies' systems offer consistently high quality and contribute significantly to the efficiency and sustainability of production.

***“Integrated systems maximise efficiency, minimise downtime and ensure consistent quality”***

#### COMBINED ADVANTAGES

Precise thicknesses of coating and accurate exposure ensure razor-sharp halftones, uniform ink application and optimal colour density. Consistent screen quality and an optimised printing process, reduce waste and lower production costs. Fewer corrections and rework lead to long-term cost savings. A uniformly high screen quality significantly reduces errors in printing, which directly impacts cost efficiency. Optimised screens enable faster printing processes, with shorter setup times, which reduces manual adjustments during production. Precisely manufactured screens provide consistent quality, reducing the need for frequent machine adjustments or corrections. High-precision screens allow for optimal ink-application control, helping to reduce ink consumption.

***“The quality of the screen directly influences the printing process”***

#### THE FUTURE IS AUTOMATED

Given the increasing demands of production, modern, optimised screen making has become a necessity. Companies that rely on standardised and automated processes benefit from higher efficiency, improved quality and long-term cost-efficiency. The combination of high-quality equipment and smart digital solutions, ensures reproducible and sustainable production.

As technology leaders, Grünig-Interscreen and SignTronic offer innovative solutions for the entire screen-making process. From cleaning and coating, to high-precision CtS exposure. Through the close co-operation of both companies, an ideal co-ordinated MODULAR IN-LINE system can be created, guaranteeing maximum efficiency and quality. ■

**Sandra Wörle, Marketing, Grünig/SignTronic**

#### Further information:

Grünig/SignTronic, Rüthi, Switzerland  
tel: +41 717 271 900  
email: s.woerle@signtronic.com  
web: www.grunig.ch/www.signtronic.com