StencilMaster® STM-TEX-Series

A perfect screen at lightning speed!
This is the goal that motivates us to develop and manufacture in Switzerland a wide range of **Computer-to-Screen (CtS)** equipment under the designation **SWISS CtS TECHNOLOGY.** The present TEX-Series is already the **fourth generation** of StencilMaster direct exposure systems.

TEX_S   with a max. screen size up to H 1200 x W 1250 mm / H 47" x W 49.2"
TEX_L   with a max. screen size up to H 1200 x W 1600 mm / H 47" x W 63"
TEX_XL with a max. screen size up to H 1500 x W 2100 mm / H 59" x W 82"

Due to the large number of involved process steps, the conventional screen exposure is very complex, expensive and error-prone. The CtS equipment sets new standards in this field and distinguishes itself by the following advantages: Highest possible reproducibility thanks to **DIGITAL SCREEN MAKING**, absence of film and all the associated handling costs, improved printing quality, higher productivity rate, impressive flexibility and lower screen costs.

UV light source: Powerful **330W CPL UV lamp** for an optimal exposure and full curing of virtually all the direct emulsions on all the mesh types. As a variant, a **UV-LED DUO light source** can also be offered.

Optics from ZEISS: high light transmission, torsion-free, stable and maximum precision
1270 dpi resolution - Standard for all the StencilMaster models

OECU (Optical Engine Control Unit): The core of the new generation. This control unit, which has been developed by our own engineers, manages all the processes related to the exposure head. **DMD's (Digital Micro-mirror Devices)** of the latest generation are controlled as efficiently as the high-precision horizontal and focusing axes.

STPrint V.4: The in-house conceived user software allows a centralized operation and control of the STM equipments – including complete IN-LINE installations supplied by Grünig.

Basic construction: This construction method based on premium massive steel is indispensable to achieve a first-class and high-precision direct exposure. A multiple axes system is configured on the basic construction.
An air suspension exposure unit guarantees vibration-free movements. The unique drive system functions in horizontal direction.
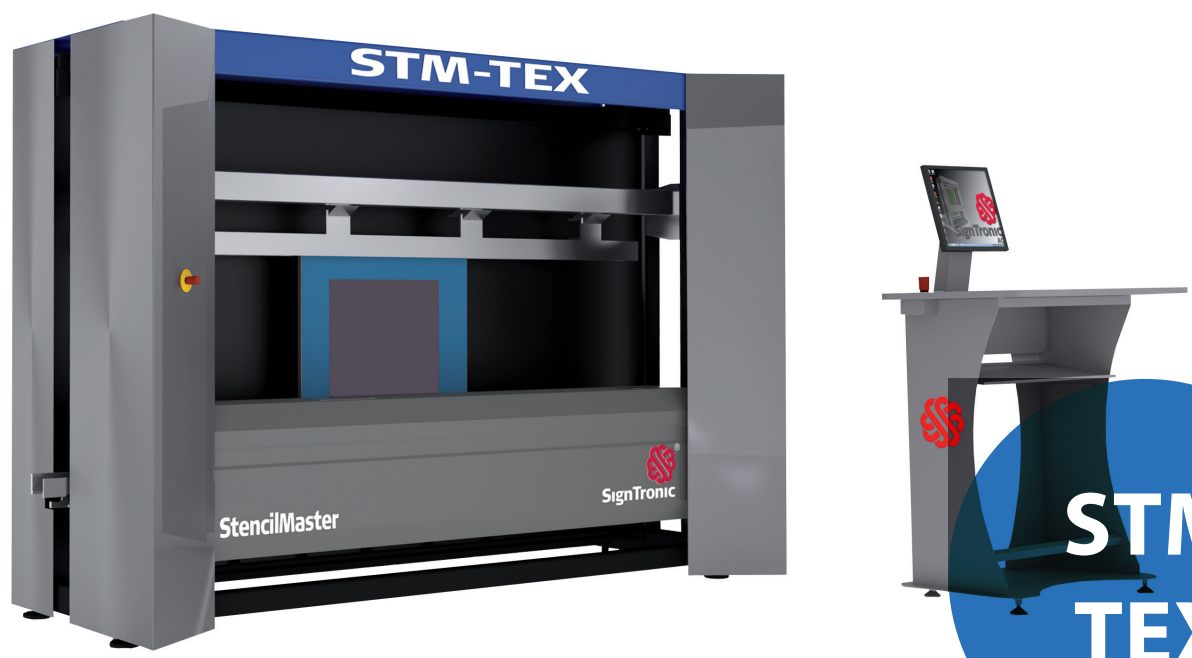
Bidirectional exposure: Thanks to the to-and-fro movement, this standard working method is extremely precise and fast.

Automatic positioning of the screens: All the StencilMasters of the TEX-Series can be loaded and unloaded from both sides. The automatic insertion feature ensures an uncomplicated handling, a fast and precise positioning as well as an optimal fastening within the installation.

Possibility of modular extension: Installation concept with the possibility to integrate all the Grünig IN-LINE equipments (loading and unloading magazines, developing, coating, air blower and drying modules).

Option RICB (Remote Image Control Board):
This equipment provides a simple and efficient means of monitoring and maintaining the exposure quality. Among others, the following checking and measuring activities are possible: Mechanical basic setting including focus measurement, incident light metering of the entire DMD with automatic mask preparation and readjustment of the light output.

SignTronic AG

STM TEX

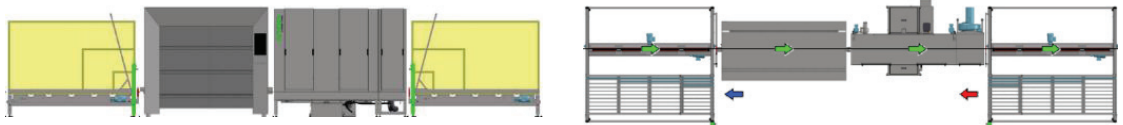# CtS automatisation in different levels (modular):

STM-TEX *PRO-10*
Automations Level

- Fully automated In-Line stencil making system including:
- direct exposing unit STM-TEX
- automatic developing unit G-WASH 175-XS and
- 10-slot loading and unloading magazines

This is the **"don´t worry"** package:
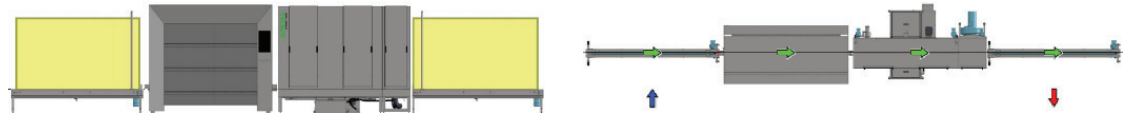Handle up to 10 screens in an automated job queue --> get them out: **ready to print!!**

STM-TEX *PRO-one*
Automations Level

- Fully automated In-Line stencil making system including:
- direct exposing unit STM-TEX
- automatic developing unit G-WASH 175-XS and
- Single-slot loading and unloading stations

One screen on exposing, one on developing and third already loaded:
Handle up to 3 screens in job queue --> get them out: **ready to print!!**

STM-TEX *BASIC-10*
Automations Level

- Partially automated In-Line exposing system including:
- direct exposing unit STM-TEX
- 10-slot loading and unloading stations

Set a 10-Job queue for screen exposing and let go!
You only need to develop the screens and get them printed!

STM-TEX *BASIC-one*
Automations Level

- Partially automated In-Line exposing system including:
- direct exposing unit STM-TEX
- Single-slot loading and unloading stations

One screen on exposing and the next already loaded --> the basic automation!

STM-TEX *BASIC-zero*
Automations Level

- Stand - alone direct exposing system STM-TEX.

Benefit from all the advantages of Sign-Tronic´s direct exposing technology!