

# StencilMaster<sup>®</sup> STM-TEX PRO-10

**Automatic screen making** is gaining in importance, even in the sector of **TEXTILE PRINTING**. Especially in the fields of direct printing (T-Shirts, Fashion, etc.) and transfer printing, the requirements with regard to printing quality are steadily increasing.

**The key factor** – and not only with regard to printing quality but for the entire printing process – is the **serigraphy screen**. The modular range STM-TEX-Series combines **TECHNOLOGY (CtS direct exposure)** with **AUTOMATION (IN-LINE Processes)**.

The implementation of these two process steps provides the following advantages:

**Improved** quality, **reduced** material and salary costs, **shortened** registration and setting-up times, **optimized** throughput costs and waiting times, **increased** printing output, etc. Our customers all over the world benefit from these competitive advantage by using our **StencilMaster CtS direct exposure systems (Computer-to-Screen)**.

## How does the STM-TEX PRO-10 IN-LINE system work?

### Magazine feeder 190XS\_A20L:

The automatic magazine feeder has a maximum capacity for 10 screens. It is capable of taking up screens of various sizes and with different frame profiles.

### CtS direct exposure STM-TEX:

The STM system automatically calls up the screens, one after the other. The screens are pulled in, automatically positioned (**perfect registration**) and pneumatically fastened. Then the optics are focused (**autofocus**) and the exposure head starts performing its task in both directions. The direct exposure is ensured by a powerful **UV light source and 1270 dpi (20 Micron Pixels)**.

Once the exposure procedure is completed, the exposed screens are automatically taken to the subsequent process. Simultaneously, the following screen is called up, inserted and registered.

### Developer 175XS:

The exposed screen is forwarded to the development chamber where it is automatically moistened in order to soften up the emulsion. Upon expiry of the programmable waiting time (soaking time), the screen is developed in a fully automatic manner and in accordance with the stored program. It is essential for the entire developing process to take place in a closed washing chamber, to make sure that neither precipitations nor spray mist can infiltrate in the STM-TEX system. An integrated water recycling system with automatic final rinsing (based on clean water) is included in the delivery. The **control/programming** of the developing system is fully integrated and ensured via the STM Software STPrint V.4.

### Blow-off/preliminary drying 179XS:

The washed and wet screens pass through the blow-off station where they are automatically pre-dried. More than 95% of the water is thus eliminated, which not only considerably accelerates the drying time but also provides an improved printing quality (no lime-scale deposits).

### Unloading magazine 190XS\_A20R:

The screens are automatically taken to the unloading magazine with a capacity for 10 screens. There the screens can be removed for final checking. **Ready to print!**

The throughput direction can be selected according to the needs.



**STM  
TEX**



# Technical Specification

Technical data PRO-10	STM-TEX_S	STM-TEX_L	STM-TEX_XL
Height	2180 mm / 86"	2180 mm / 86"	2480 mm / 98"
Width	8000 mm / 315"	9350 mm / 368"	11050 mm / 435"
Depth	2810 mm / 111"	2810 mm / 111"	2810 mm / 111"
Net weight	ca. 2800 kg / 6175 lbs	ca. 3050 kg / 6730 lbs	ca. 3450 kg / 7590 lbs
Max. screen format (H x W)	1200 x 1250 mm 47.2" x 49.2"	1200 x 1600 mm 47.2" x 63"	1500 x 2100 mm 59" x 82.6"
Max. exposure format (H x W)	1050 x 1000 mm 41.3" x 39.3"	1050 x 1600 mm 41.3" x 63"	1350 x 1600 mm 53" x 63"
Available resolution	1270 dpi		
UV light source	CPL 330 W or UV-LED DUO (385 nm / 405 nm)		
Data interface	Ethernet 1-Gbit		
Required data format	1-bit TIFF		
Remote maintenance	Integrated in data interface (an internet connection is required)		
Operating system	Windows 10		
Power supply	3x400VAC / 50Hz / 25A or 3x220VAC / 60Hz / 32A		
Compressed air supply	6 Bar, max. 50l/min / 90 psi, 21 ft <sup>3</sup> /h		
Water connection	1,5m <sup>3</sup> /h, 3 Bar / 53-160ft <sup>3</sup> /h		
Connection for waste water	Ø108 mm (4.25in)		
Exhaust air connection	Ø100 mm, 500 m <sup>3</sup> /h, 450 Pa (Ø4 in, 25430 ft <sup>3</sup> /h, 0.07 psi)		
Room conditions	Yellow light, dust free, vibration-free floor		
Floor load	600 - 1000 kg/m <sup>2</sup> / 110 - 180 lbs/ft <sup>2</sup>		
Ambient temperature	18 - 24° C / 65 - 75° F		
Air humidity	25 - 75 % (rF)		

Options	
Process control	RICB (Remote Image Control Board)
RIP software	Colorgate Productionserver PS (Sign-Tronic Edition)
Proofing software	FirstPROOF PRO
Service contract	Upon request

Technical data are subject to alterations. Only terms and conditions of SignTronic AG are valid

