

# StencilMaster® STM-XS

## 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 STM-XS is a product already based on the **fourth generation** of StencilMaster direct exposure systems.

This model designed by SignTronic is particularly appropriate for small printing screens which are used either as individual double screens or destined for simultaneous handling of several screens. Thanks to special adapter frames, the so-called „Master frames“, several small screens can be inserted and then be automatically exposed, one after the other.

**Front loading of the screens:** The STM-XS allows simple and rapid loading from the front side, which means: unrestricted access for the operator, and less space required by the machine.

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, increased 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 high-precision  
**Resolutions:** 1270 dpi, 2400 dpi (HR2), 3040 dpi (HR3).

**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 Device)** 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.

**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 exposure unit with air suspension 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.

## 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.

*Rigid Tubes*

*BluRay Discs*

*Glass Bottles*

*Flexible Tubes*

*Plastic Bottles*

*Compact Discs*

*Parfum Flacons*

*Drinking Glasses*

*Promotional Products*

*and many more...*



# Technical Specifications

Technical data	STM-XS_S	STM-XS_L
Height	2035 mm (80")	2035 mm (80")
Width	2286 mm (90")	2886 mm (114")
Depth	1087 mm (43")	1087 mm (43")
Net weight	ca. 1100kg (2425 lbs)	ca. 1400kg (3086 lbs)
Max. screen format (H x W)	1200 x 1200 mm (47.2" x 47.2")	1200 x 1600 mm (47.2" x 63")
Max. exposure format (H x W)	1000 x 1000 mm (39.3" x 39.3")	1000 x 1600 mm (39.3" x 63")
Screen positioning	according to customer's specifications	
Available resolutions	1270 dpi, 2400 dpi (HR2), 3040 dpi (HR3)	
UV light source	CPL 330 W or UV-LED DUO (385 nm / 405 nm)	
Power consumption	~1100 W	
Data interface	Ethernet 1-Gbit	
Remote maintenance	Intergated in data interface (an internet connection is required)	
Operating System	Windows 10	
<b>Technical requirements</b>		
Power supply	208-240 VAC / 50 - 60 Hz / 16A	
Compressed air supply	6 bar (87 psi)	
Compressed air consumption	max. 20 l/min (50 ft3/h)	
Compressed air quality	ISO 8573-1 4.4.4	
Room conditions	Yellow light, dust free, vibration-free floor	
Floor load	600 - 1000 kg/m2 (110 - 180 lbs/ft2)	
Ambient temperature	18 - 24° C (65 - 75° F)	
Air humidity	25 - 75 % (rF)	
Required data format	1-bit TIFF	
<b>Options</b>		
Process control	RICB (Remote Image Control Board)	
RIP software	Colorgate Productionserver PS (SignTronic Edition)	
Proofing software	FirstPROOF PRO	
Service contract	Customized service contracts are available on a optional basis	

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

STM-XS\_S

STM-XS\_L

