



StencilMaster® STM-ONE

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-ONE is a product already based on **the third generation** of StencilMaster direct exposure systems.

The new model from SignTronic is particularly appropriate for small quantities and formats of printing screens, up to a maximum size of $1200 \times 1200 \text{ mm}$. $(47.2^{\circ} \times 47.2^{\circ})$

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.

Optics from ZEISS: high light transmission, torsion-free, stable and high-precision **1270 dpi resolution** – standard resolution

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.

Front loading of the screens: The STM-ONE can be conveniently and quickly loaded from the front. This means: unobstructed access for the operator and reduced space requirement for the installation.

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.



STM ONE

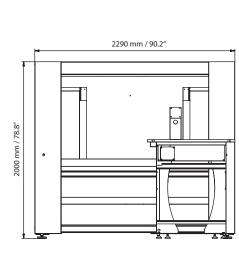


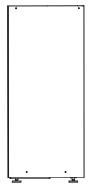


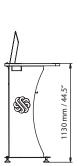
Technical Specifications

Technical data	STM-ONE
Height	2000 mm (78.8")
Width	2290 mm (90.2")
Depth	870 mm (34.3")
Net weight	ca. 1500 kg (3300 lbs)
Max. screen format	1200 x 1200 mm (47.2" x 47.2")
Max. exposure format	1000 x 1000 mm (39" x 39")
Screen positioning	according to customer's specifications
Available resolution	1270 dpi
UV light source	CPL 330 W
Power consumption	~1100 W
Data interface	Ethernet 1-Gbit
Remote maintenance	Intergated in data interface (an internet connection is required)
Operating System	Windows 7
Technical requirements	
Power supply	208-240 VAC / 50Hz / 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
Ontions	
Options	6.1
RIP software	Colorgate Productionserver PS (SignTronic Edition)
Proofing software	FirstPROOF PRO
Process control	RICB (Remote Image Control Board)
Service contract	Customized service contracts are available on a optional basis
UPS (un-interruptible power supply)	Upon Request

Technical data are subject to alterations. Only terms and conditions of Sign-Tronic AG are valid











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