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SAATIIPRINT

The SaatiPrint CTS Imager is a new automated digital system for the exposure of screen printing stencils in the high-quality optical disc printing market. The exposure technology is based on scanning by polygonal mirror and a flat field lens of a laser light beam. SaatiPrint CTS Imager is also equipped with screen loading, and unloading storage units. The screens are taken from a vertical storage unit, positioned on SaatiPrint CTS Imager, imaged and transferred to the output storage unit. This system allows the process to be performed without need of an operator.



CTS IMAGER

CTS IMAGER

CHARACTERISTICS

The system is easy to start and operate. It does not require any special training since the interface resembles a desktop printer and exposure can be started by a simple mouse click. The equipment can be connected to a Local Area Network or to a remote network by Internet.

ADVANTAGES

- Extremely accurate exposure
- High repeatability
- High definition and resolution of the exposed image
- Exposure time: within one minute (1270 dpi); within one minute and thirty seconds (2540 dpi)
- Capable of continuous processing without operator
- High mechanical reliability
- Low maintenance
- Small footprint
- Low operating and maintenance costs

ADVANTAGES OF THE DIGITAL TECHNOLOGY

- Quick and inexpensive production of screen printing stencils.
- The possibility to manage and elaborate the digital images (MAC based, PC available, please inquire) with the most common softwares (Adobe Photoshop) allows to modify the source image avoiding the expensive costs of the artworks (films) as required from the traditional system.
- Flexible screen production due to the ability to queue different images on subsequent screens.
- The print file can be stored in electronic format.



Ethernet network
TCP/IP

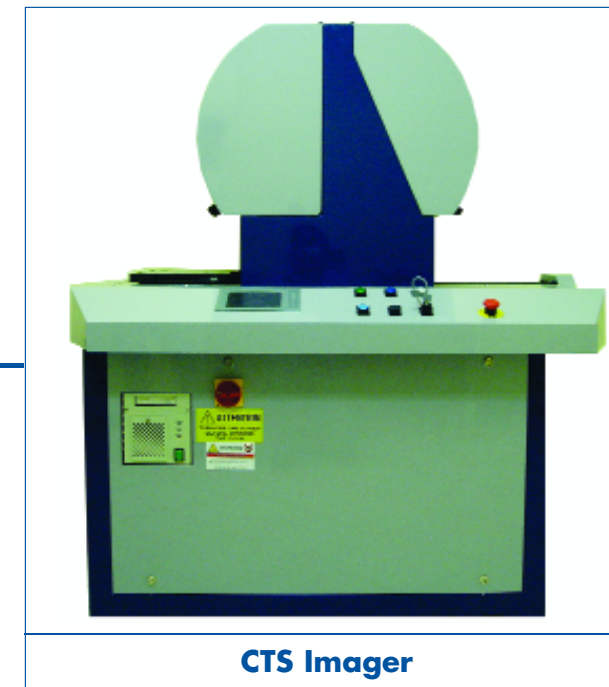
OPERATIONS

First your MAC will create an image in a non-compressed TIFF format which then will be transferred into the CTS IMAGER via the network where the files are stored in a print queue. Next the loading storage takes and positions the CD screen on the conveyor belt with maximum accuracy and then the positioning device centers the incoming screen and keeps it in exact registration during the transport phase thru the CTS IMAGER. Next the screen is quickly

transferred to the imaging area where the exposure automatically begins. The laser, synchronized with the belt and polygonal mirror movement, transfers the image on the screen thanks to an accurate and rapid light beam. After exposure is completed the screen then is quickly moved to the unloading storage compartment at the end of the CTS IMAGER.



Loading Storage



CTS Imager



Unloading Storage

TECHNICAL DATA

SCANNING:	by polygonal mirror and flat field lens
EXPOSURE AREA:	6" x 6"
EXPOSURE TIME:	within 1 minute (1270 DPI)
INPUT FILE FORMAT:	TIFF not compressed
PRINT RESOLUTION:	2540 DPI
EQUIPMENT DIMENSIONS:	57" x 37.5" x 67" (width, depth, height)
POWER SUPPLY:	3 KW
VOLTAGE SUPPLY:	220 ~ 380 volt three-phase
WEIGHT:	550 lbs.
SUPPLY FREQUENCY:	50-60 Hz
COMMUNICATION PROTOCOL:	Ethernet network TCP/IP
MARKING	CE

LOADING AND UNLOADING UNIT AND CD/OPTICAL DISC STORAGE

- Rigid compensator with tabs for 12.2" x 12.2" screens, storage capacity 60 screens, height of the loading surface 39.4"
- Arc-welded and powder painted supporting structure
- Rigid side panels with metal tabs (pitch 1.5) with manual adjustment for CD screen support
- Self-braking drive with 0,37 kw absorbed power for the vertical movement of the side panels
- Protections in conformity with "CE"-directives
- Electronic control board with display
- Input / output transport to compensator
- Overall dimensions: 39.4" length, 35.5" width, 90.5", height

CAPILLARY FILM [SAATIFLASH CTS 15]

SAATIFLASH CTS 15, a light sensitive capillary film specially developed by SaatiChem for use with SaatiPrint CTS IMAGER. SAATIFLASH CTS 15 is a high-precision capillary film with pure photopolymer emulsion, thickness 15 microns. Ideal for an accurate ink deposit. SAATIFLASH CTS 15 guarantees excellent Rz-value, high resolution, a wide latitude, resistant to solvents, abrasion and UV-inks and is easy to apply and reclaim.

SAATIPRINT FABRICS [SAATILENE HIBOND/ SAATILENE CD]

In combination with SAATIFLASH CTS 15, we advise you to use Saatilene Hibond or Saatilene CD Mesh. Saatilene Hibond and CD Mesh are high tension/low elongation polyester monofilament screen printing fabrics which offer screen manufacturers unique characteristics in terms of productivity and optimal adhesion of the emulsion to the fabric.

For more detailed technical characteristics of our mesh, please ask for the corresponding data sheet.