LTS 1015
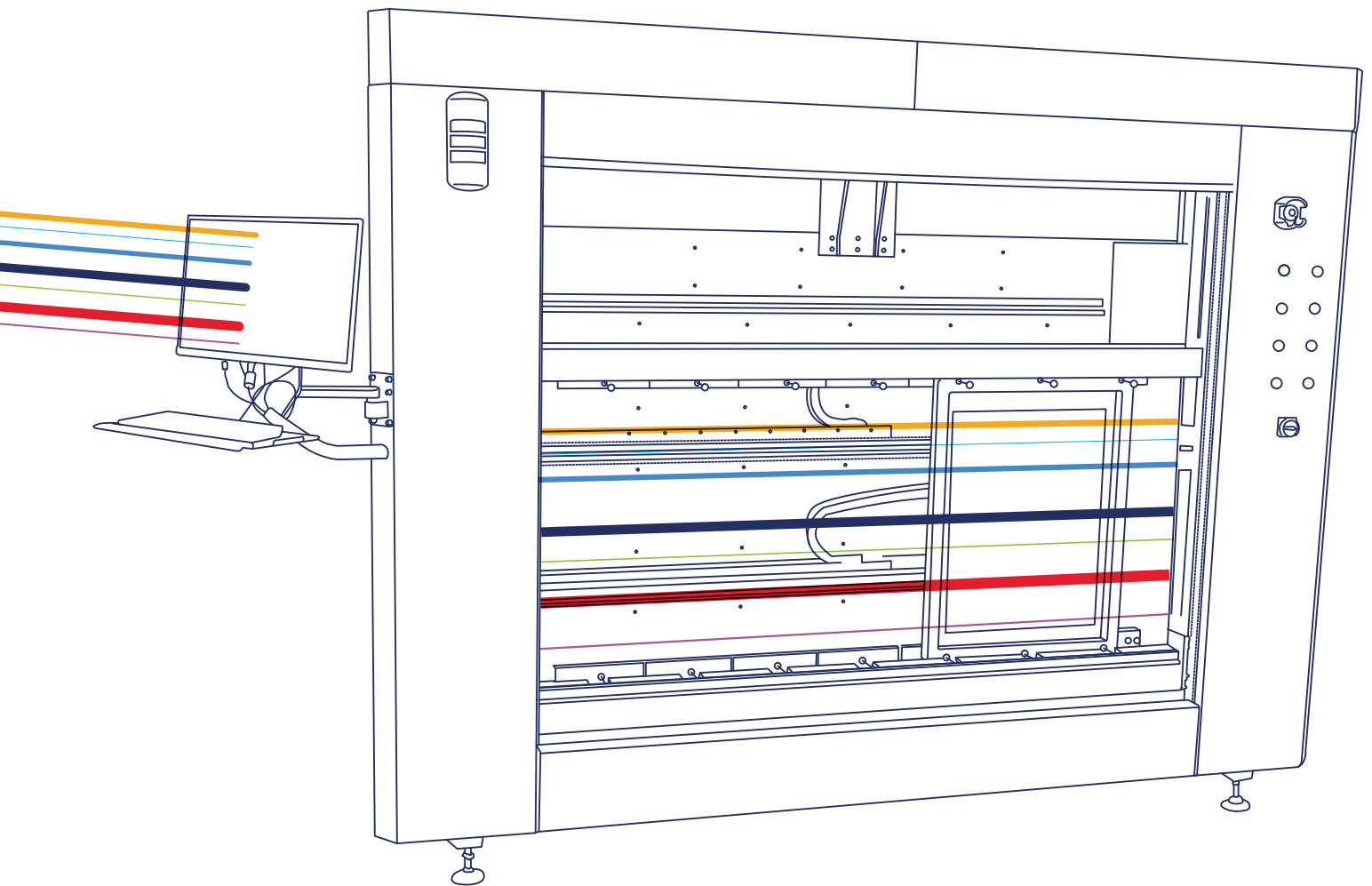
The Advanced Direct Laser CtS Imaging & Exposure System
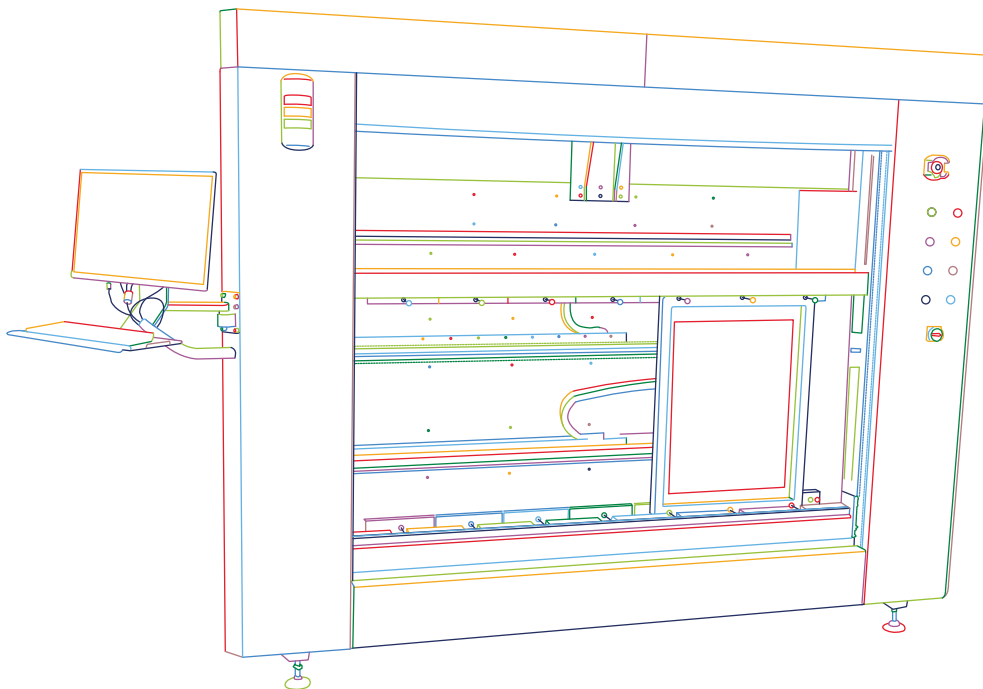
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![SAATI logo](We cross-innovate)

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Table of Contents

The LTS Series:
Introducing State-of-the-Art
Laser Stencil Making by SAATI

SAATI has decades of experience in manufacturing and commercializing precision woven mesh, emulsion, stencil films and chemicals. Knowledge we have gained from our customers has been compiled, analyzed and applied to produce a full range of screen making equipment; the jewel of this collection is the LTS Series.

The SAATI LTS range takes into account the contemporary needs of stencil makers with an eye toward future challenges that will demand more efficient and precise results. SAATI LTS machines are Direct Laser CtS (LTS) Image & Exposure units. They surpass the results of other CtS systems, and simultaneously provide enhancements to time and money spent producing stencils, as well as reducing your ecological footprint.
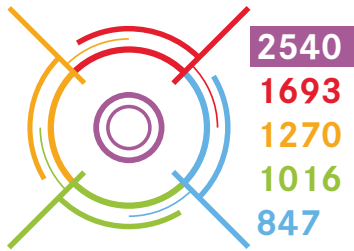
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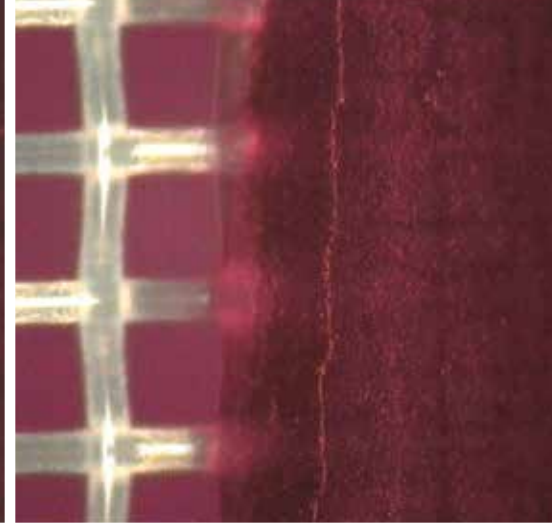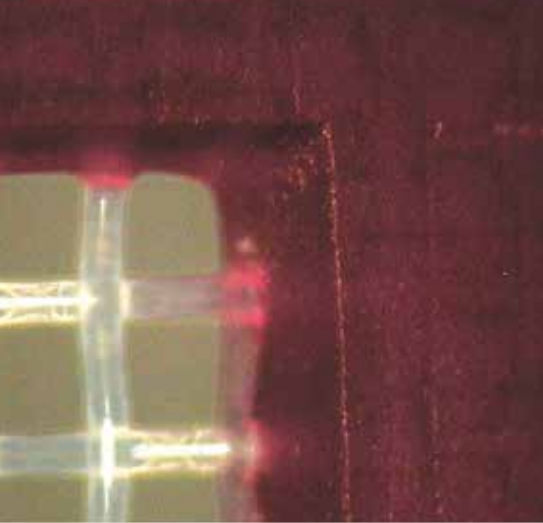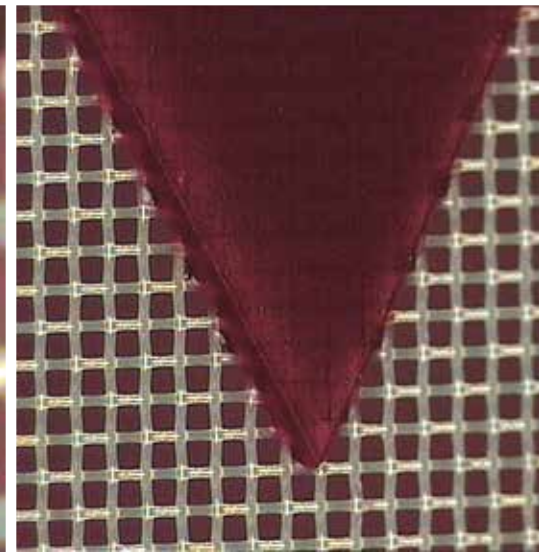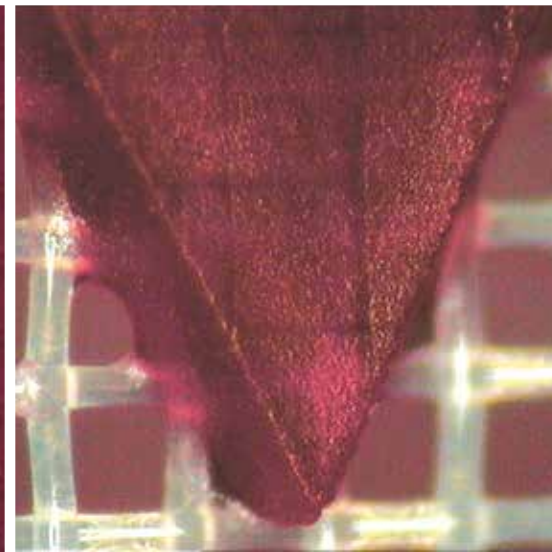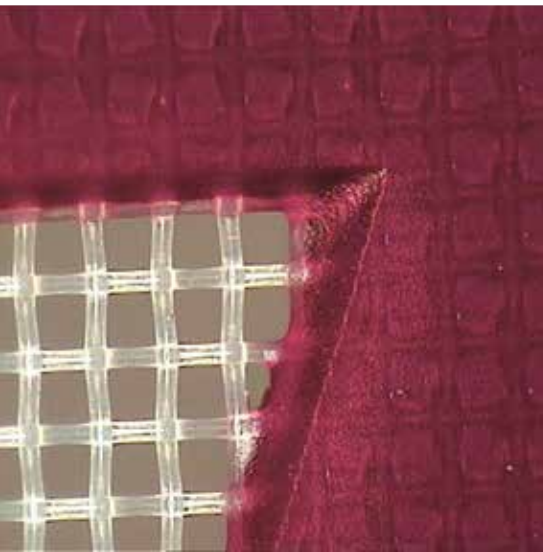
SAATI LTS 1015

Features

2540
1693
1270
1016
847

Precision Choices

Five DPI options let you choose the highest resolution or the shortest cycle

Flexibility

Compatible with all emulsion and film types

Long Life

Lasers have operational lives of 10,000+ hours at 100% strength

Direct Lasers

Simplified
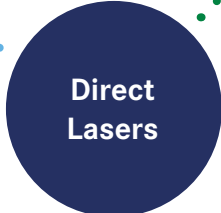
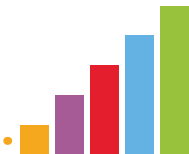Save time by eliminating film pinhole checks and registration. Image & Expose in one quick process

Power Settings

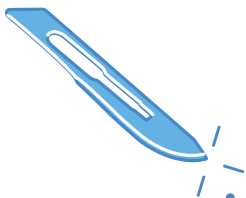Quickly and thoroughly cure even very high EOM dual-cure emulsions

SAATI
LTS

Digital Workflow

Faster Processing

Prepare art files, and create stencils immediately - no film creation or checks

Digital Registration

Eliminate difficulties by locking the frame into place and setting the laser start position digitally

Digital Archive

Keep an archive of art files, save registration settings and duplicate programs to improve your workflow

Precision Imaging

CtS Inkjet liquid drops spread before drying - direct laser imaging has higher fidelity.

Save Money

Stop paying for media to image your screens

Spring Cleaning

Save space - eliminate storage for film and/or masking media
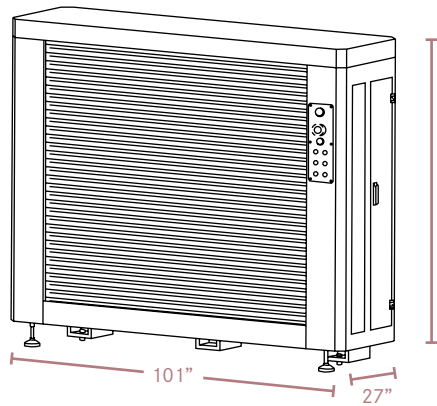
No Consumables

Environmental Impact

No masking material like ink or wax goes down the drain - Avoid the use of plastic film

SAATI LTS 1015

Physical Specifications & Characteristics

Dimensions

81"
101"
27"

Characteristics

Touch screen with powerful
workflow software

Glass-free vertical loading and
frame lock system ensure accurate,
easy screen placement and reduced pinholes

Solid metal construction provides a vibration free stencil making platform
while maintaining a smaller footprint than other CtS machines

SAATI

Weight

3,080 LBS

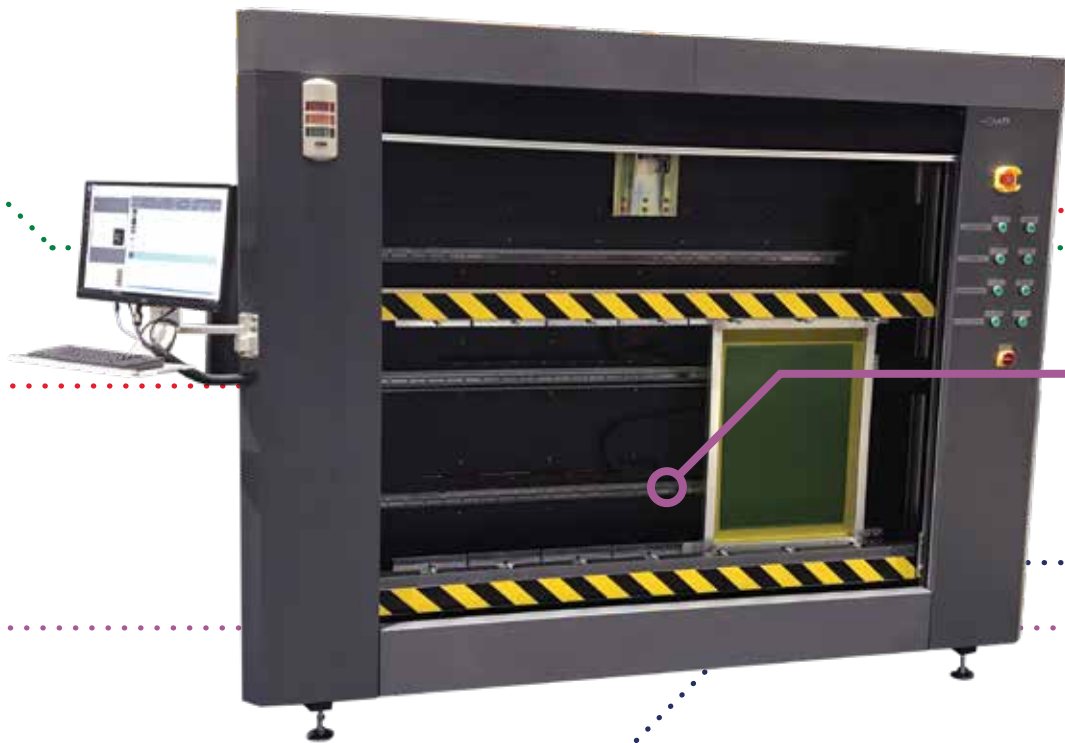## Power

110V
standard

240V
with adapter

Easy to use control panel
engages and disengages frame
clamps, carriages, shutter & emergency stop
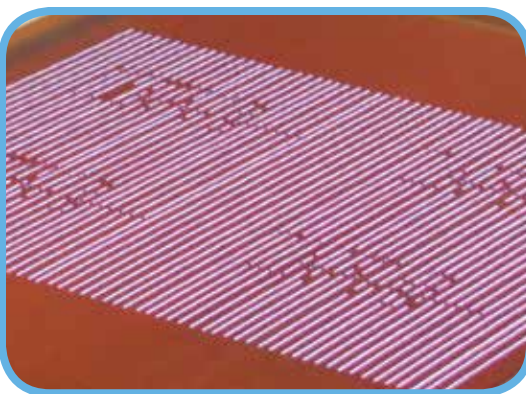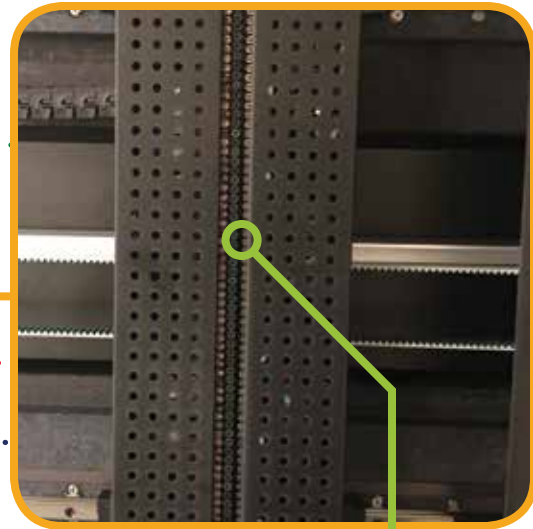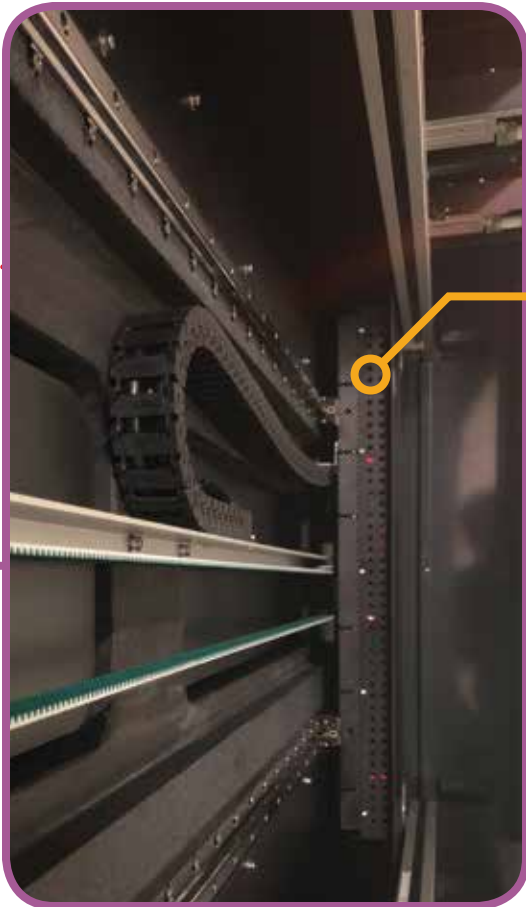
Motorized safety shutter

Large frame holding area enables
simultaneous imaging & exposure of either
large screens, or 1 or 2 standard size screens

SAATI LTS 1015

Laser Characteristics

- Linear array of 160 Blu-Ray Lasers on a belt-driven head, the system is durable and requires minimal maintenance

- The targeted light wavelength of the lasers maximizes curing speed and minimizes both power consumption and heat generation

- LED Lasers last 10,000+ hours with 100% efficiency

SAATI LTS 1015

Workflow Capabilities

Resolution Settings

The SAATI LTS has five resolution resolution settings, each tailored to a different types of image requirements

847	1016	1270	1693	2540
Low Setting		**Middle Setting**		**Highest Setting**

- Fastest processing times
- Superior to inkjet films

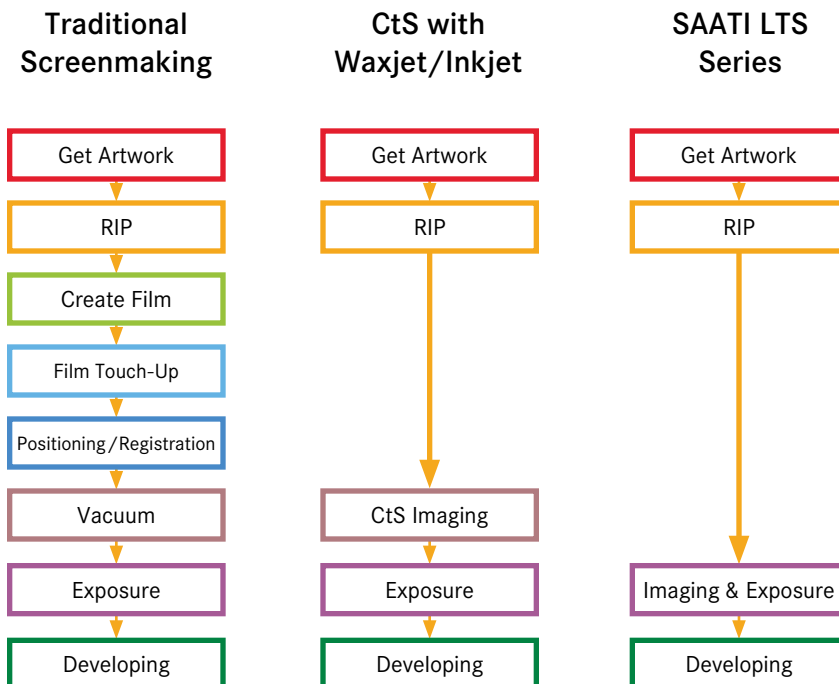- Superior to inkjet/waxjet resolution

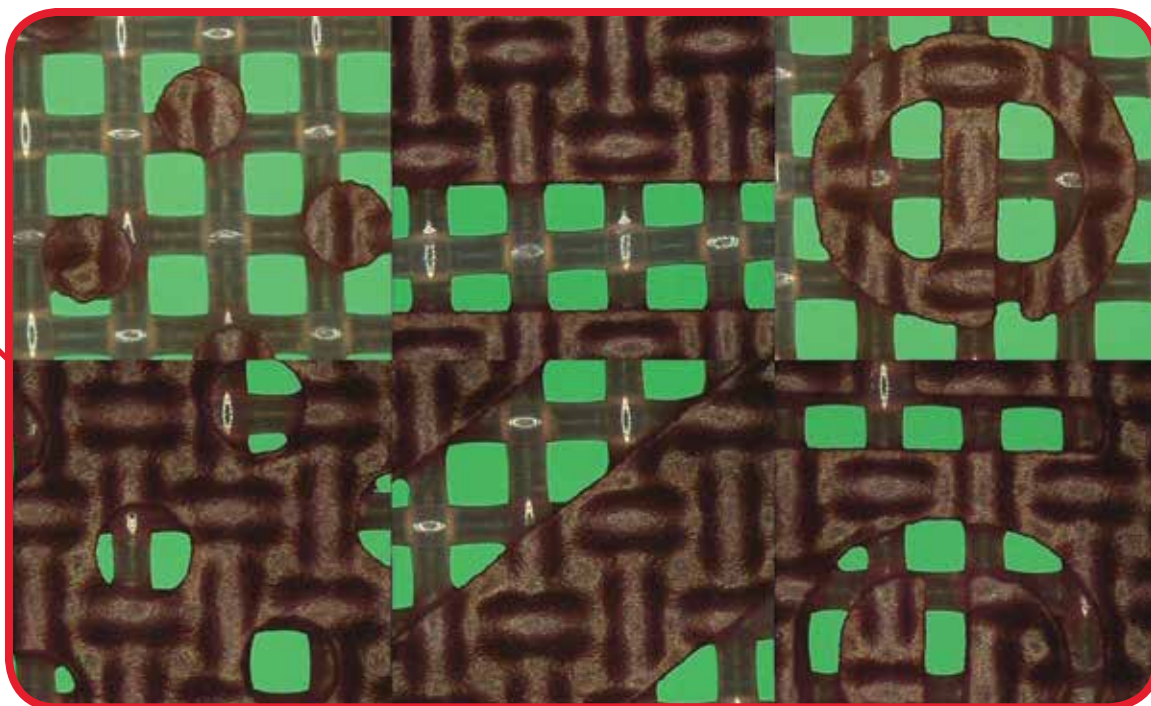- Equivalent to DLE systems

- Superior to many other DLE systems

- Image setter quality for the most demanding applications

Improvements to Workflow

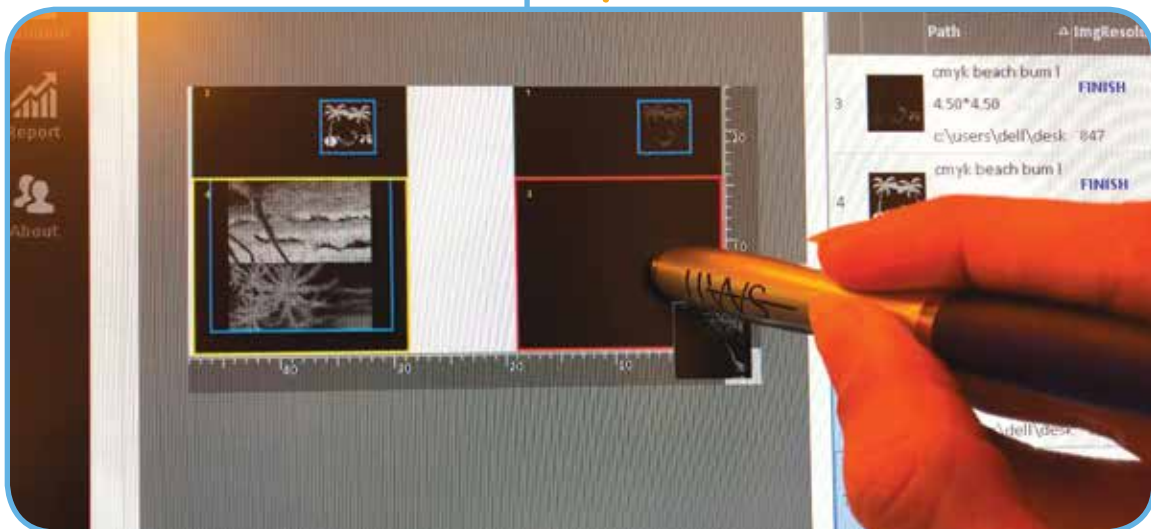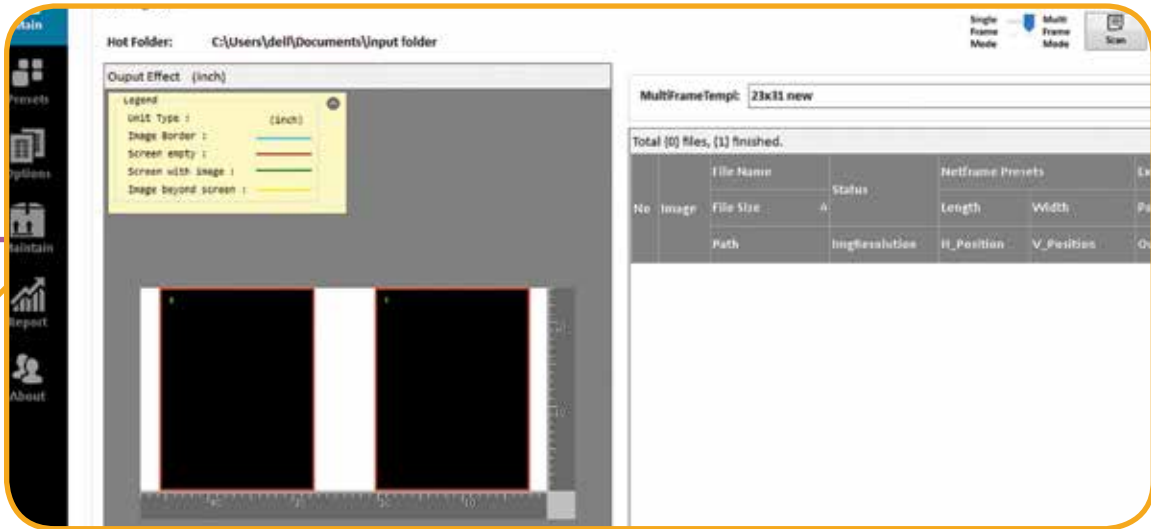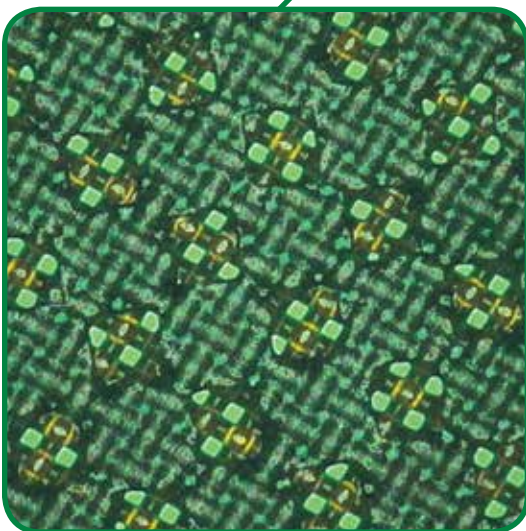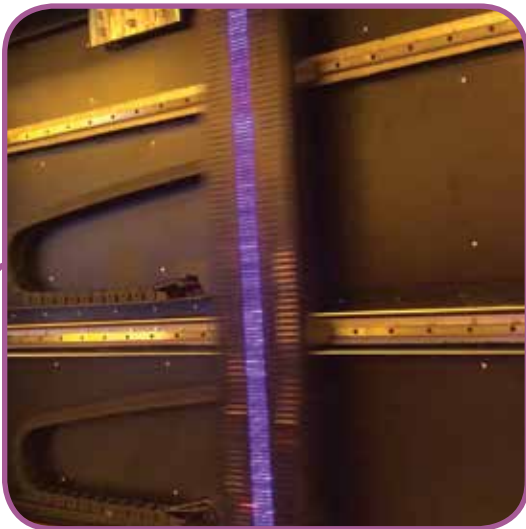| Traditional Screenmaking	CtS with Waxjet/Inkjet	SAATI LTS Series
Get Artwork	Get Artwork	Get Artwork
RIP	RIP	RIP
Create Film		
Film Touch-Up		
Positioning/Registration		
Vacuum	CtS Imaging	
Exposure	Exposure	Imaging & Exposure
Developing	Developing	Developing

SAATI Mesh 110.80 coated with Textil PHU - 2,540 DPI setting
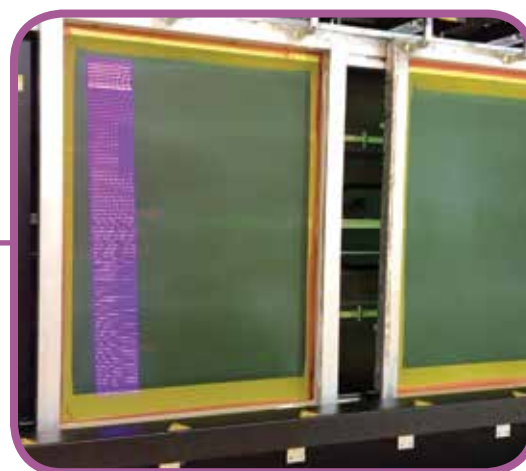
SAATI LTS 1015

Workflow Capabilities

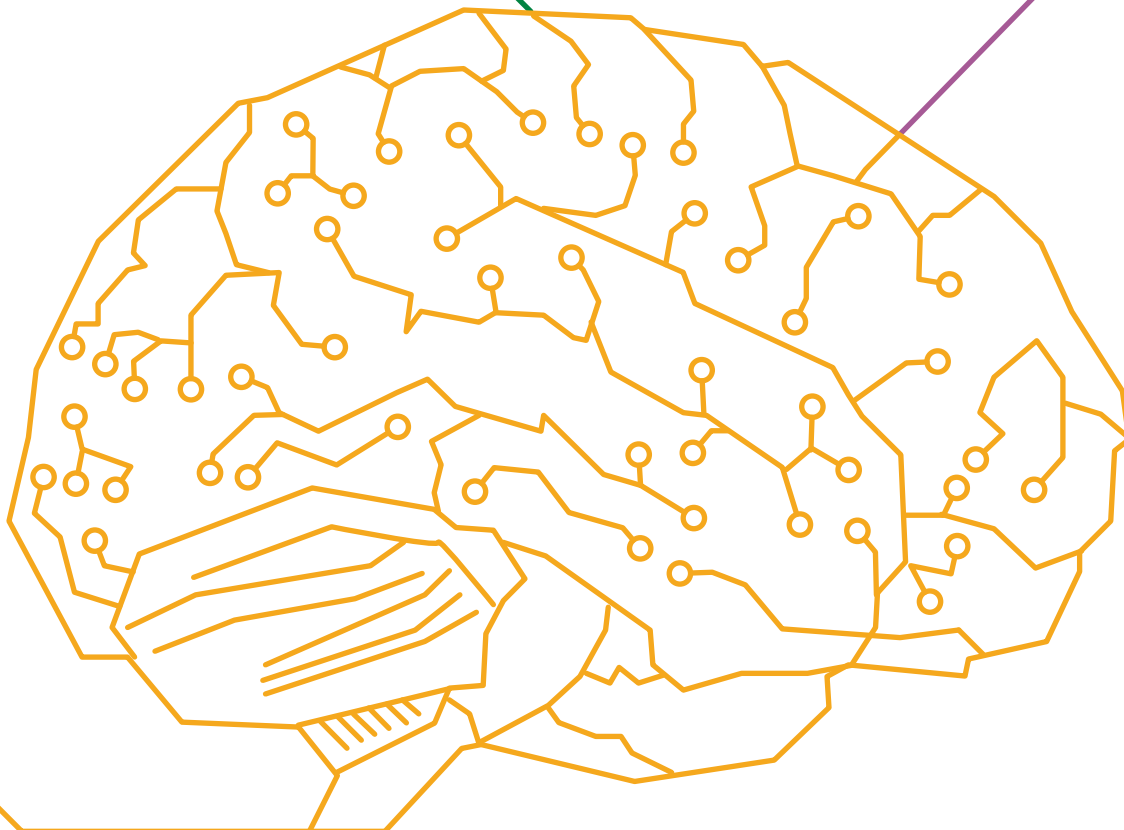120 LPI 40% dot on 380.31 YE
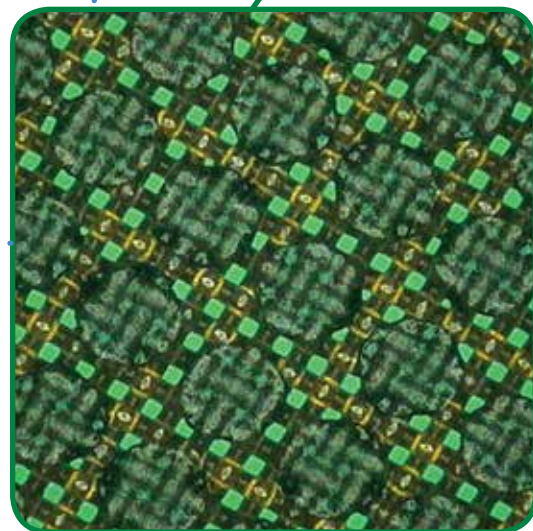
120 LPI 60% dot on 380.31 YE
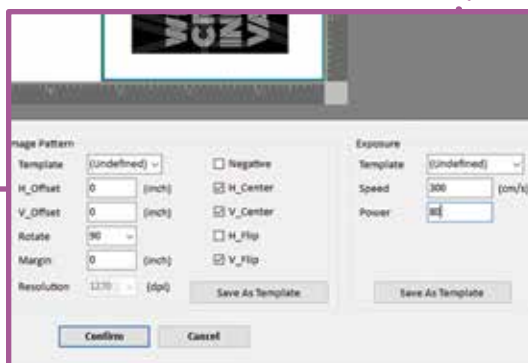
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Software Capabilities

User Friendly Layout System

- Set size & location of image(s) and define exposure area
- Place multiple stencil images across 1 or more screens with touchscreen or mouse
- Finalized layouts go to queue for easy work management

Exposure System

- Set the laser power and scan speed to effectively and thoroughly cure all emulsion and film types in under 3:00
- Customize settings and/or create standard templates for future use
- Proprietary file naming system automatically loads Netframe, Image Pattern & Exposure settings (not required)

Create Your Own Archive

- Processed files settings are saved
- After screen imaging, layouts go to designated folder for archiving or deletion
- Create your own file archive for easy retrieval through the search function

SAATI LTS 1015

Technical Overview

DESCRIPTION

Self-contained, high efficiency direct laser computer to screen Image & Exposure unit, operated by included PC with optional RIP.

APPLICATIONS

Designed to efficiently image and expose screen printing frames up to a maximum size 55"x79" without vacuum or film positives.

CHARACTERISTICS

- Vertical 160 laser array capable of 2540, 1693, 1270, 1016, or 847 DPI
- Mechanical pneumatic clamp frame holder and light-safe shutter
- Mechanical raise/lower controls for top and bottom carriages
- Exposes all emulsions and stencil films
- Easy to use software, compatible with many RIP programs
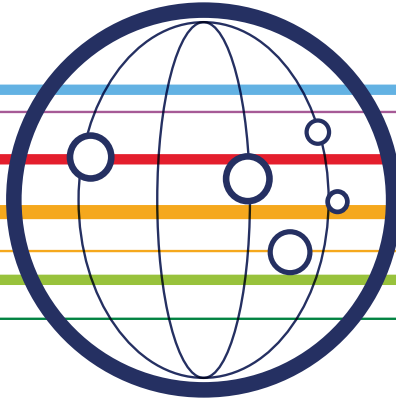- Utilizes 1-bit TIFF file format

FEATURES/BENEFITS

- Very high resolution CtS exposure capable of reproducing the most demanding image types
- Digitally process all types of PC & Mac design files in house with no film positives
- No consumables and low power consumption for minimized costs
- 10,000+ hour lamp life and easy, low cost maintenance

SPECIFICATIONS

- Maximum Image Size: 39" x 57"
- Maximum Frame Size: 55" x 79", also accommodates 2 screens 25 x 36
- Overall Dimensions: 101" x 27" x 81"
- Weight: 3,080 lbs.
- Compatible with 110V or 220V input
- Two Year Warranty

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Website

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