Stencil Exposure Systems

SAATI LTS Series

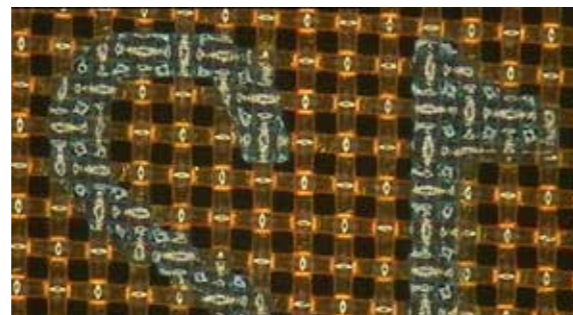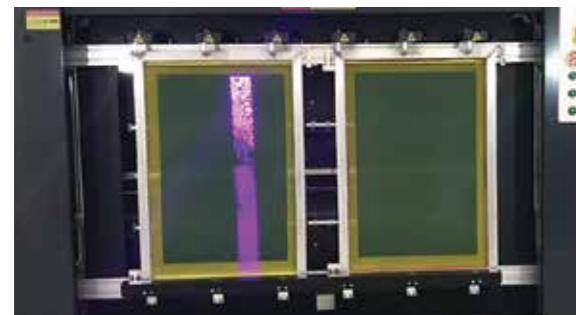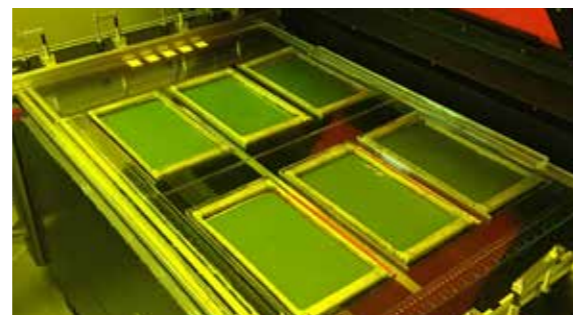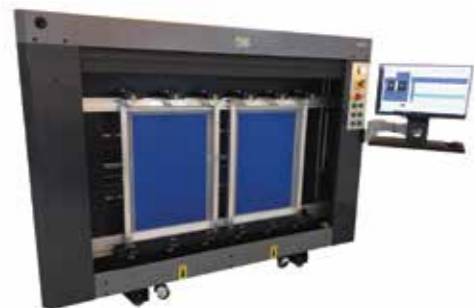High Resolution Digital Direct Laser Image & Exposure Units

SAATI is pleased to introduce you to the state of the art in computer-to-screen stencil making - the SAATI LTS Series.

SAATI LTS machines use laser diodes to directly image and expose stencils simultaneously. The 405 nm laser array is the correct wavelength for optimal through-cure so that stencils are processed rapidly, at high resolution (up to 2,540 dpi) and with no consumables like ink, wax or film, while drawing much less power than non-targeted wavelength light sources.

The included workflow software allows stencil makers process art files in-house, and to place one or more images on one or more stencils at the same time, further enhancing productivity and planning. In addition, remote viewing capabilities allow SAATI technicians to assist printers in calibrations without the need for face to face meetings in the pandemic age.
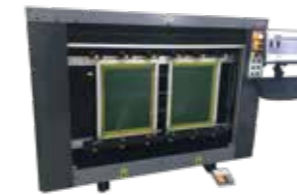
The affordable price point compared to other computer to screen technologies opens up higher resolution and more efficient computer-to-screen stencil making to a much broader group of screen printers, so the end result should be to enable access to higher quality and productivity, with a reduced carbon footprint.

SAATI LTS Range

LTS 6080   **LTS 6080-VF**   **LTS 8012**   **LTS 1015**

LTS 6080	LTS 6080-VF	LTS 8012	LTS 1015
43.3x33.5"	66x41"	66x45"	79x55"
multi-frame setups			
25x36 x1	25x36 x1	25x36 x1 or x2	25x36 x1 or x2
23x31	23x31 x1 or x2	23x31 x1 or x2	23x31 x1 or x2
20x24	20x24 x1 or x2	20x24 x1 or x2	20x24 x1 or x2

LTS 6080
for small to medium format screens
1 or more screens horizontal glass down

LTS 6080VF
for medium format screens
1 or 2 up vertical glass free

LTS 8012
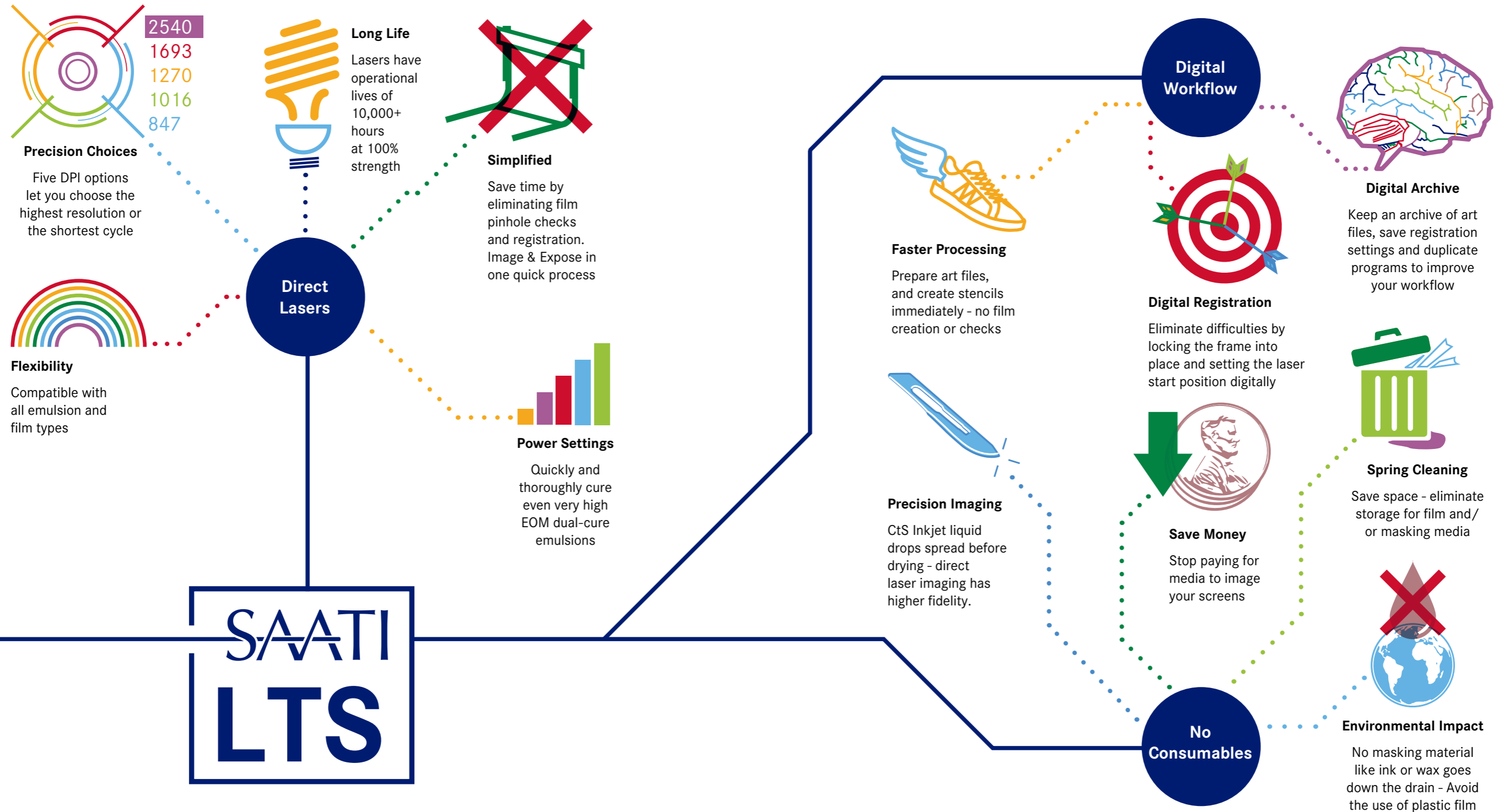for medium format screens
1 or 2 up vertical

LTS 1015
for larger and medium format screens
1 or 2 up vertical

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SAATI LTS Series

High Resolution Digital Direct Laser Image & Exposure Units

2540
1693
1270
1016
847

Precision Choices

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

Long Life

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

Simplified

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

Flexibility

Compatible with all emulsion and film types

Direct Lasers

Power Settings

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

Faster Processing

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

Precision Imaging

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

Digital Workflow

Digital Registration

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

Save Money

Stop paying for media to image your screens

Digital Archive

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

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
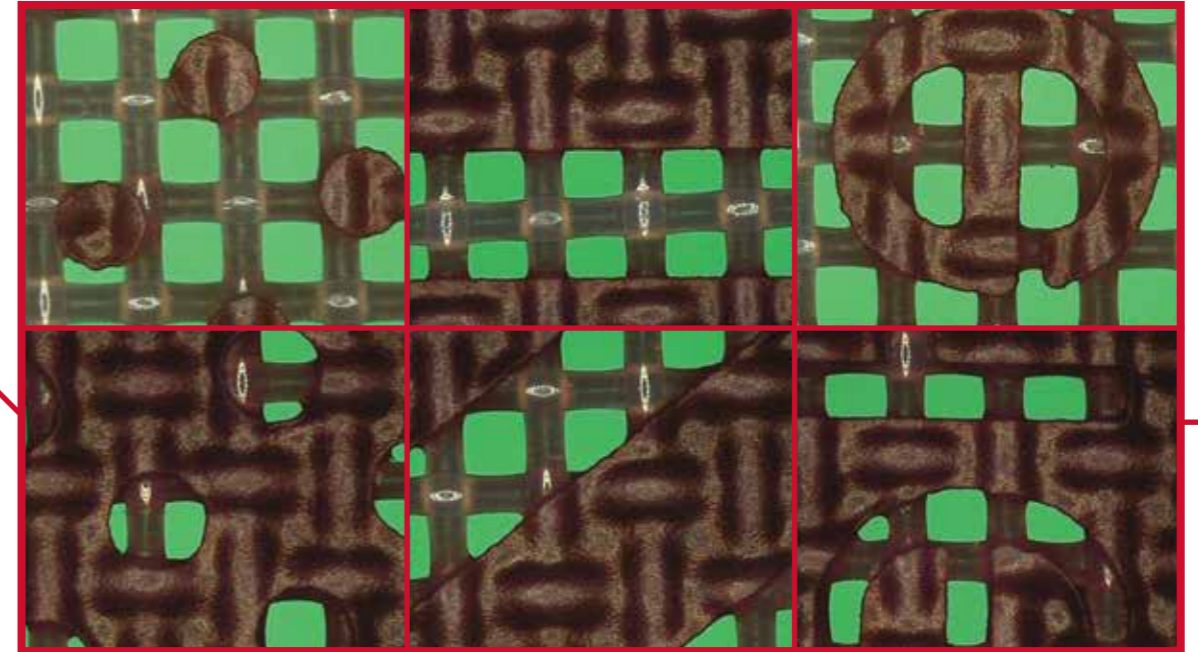
SAATI LTS

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SAATI LTS Series

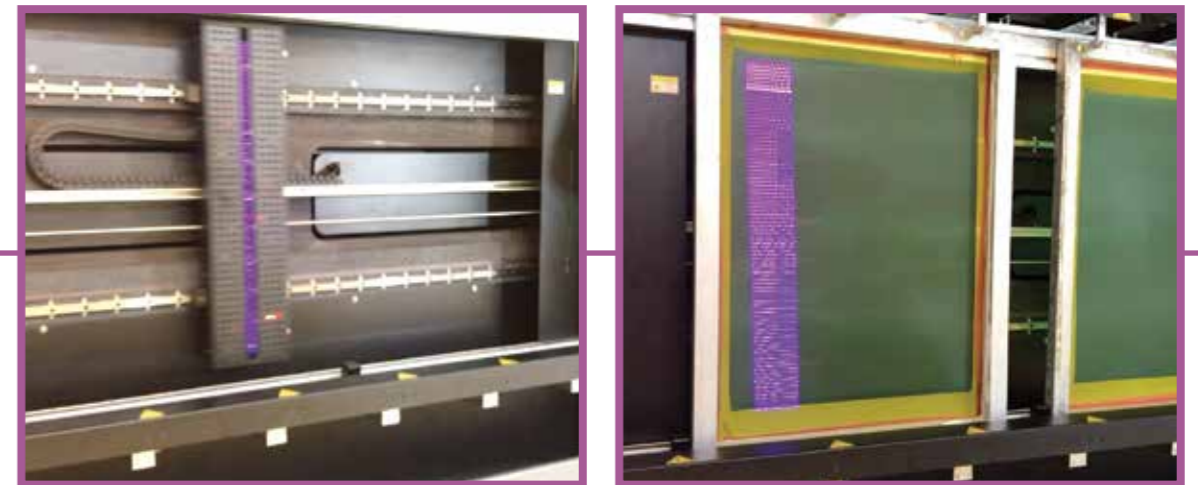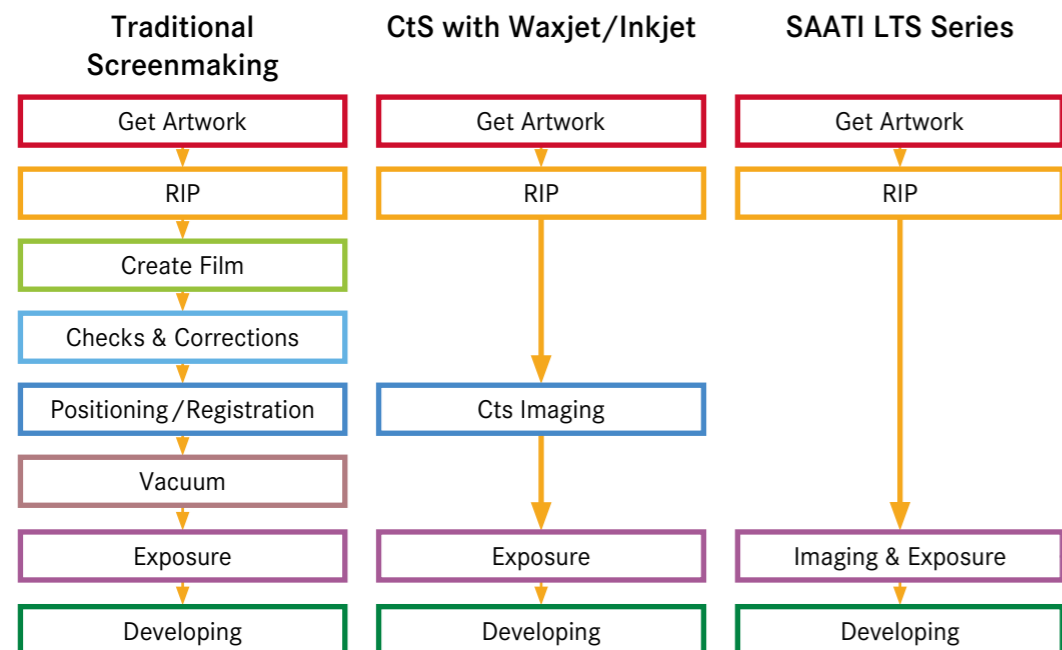High Resolution Digital Direct Laser Image & Exposure Units

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

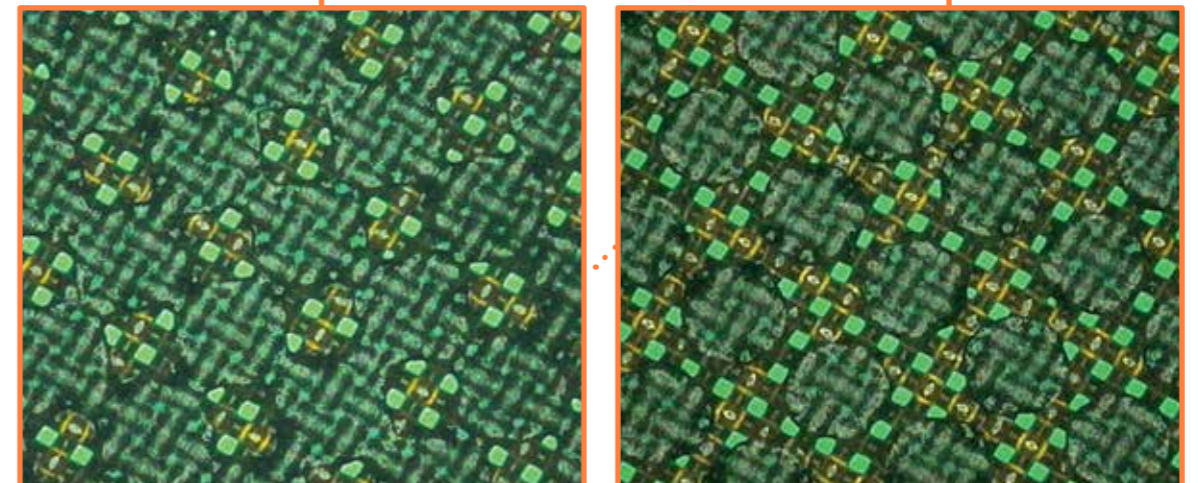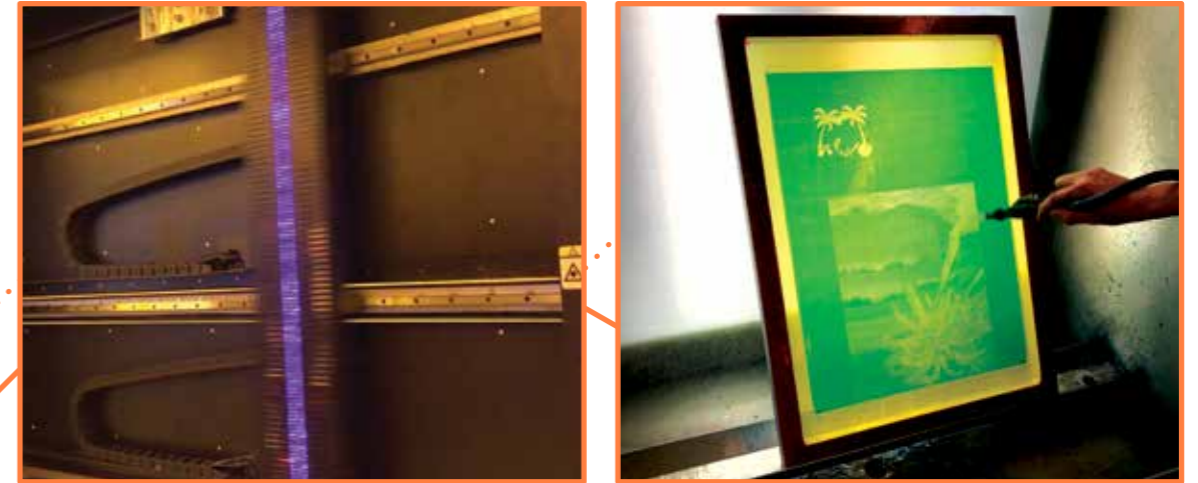| Traditional Screenmaking	CtS with Waxjet/Inkjet	SAATI LTS Series
Get Artwork	Get Artwork	Get Artwork
RIP	RIP	RIP
Create Film		
Checks & Corrections		
Positioning/Registration	Cts Imaging	
Vacuum		
Exposure	Exposure	Imaging & Exposure
Developing	Developing	Developing

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High Resolution Digital Direct Laser Image & Exposure Units

Laser array exposes images much more quickly than scrolling chip
DLE or ink/waxjet that require subsequent exposure

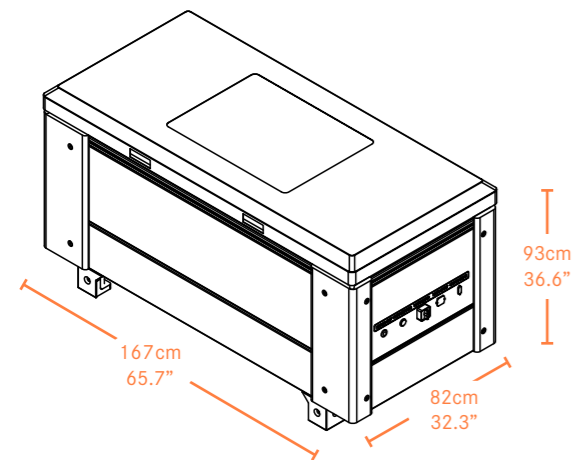Precision placement of multiple
art files across two screens

120 LPI 40% dot on 380.31 YE

120 LPI 60% dot on 380.31 YE

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SAATI LTS 6080

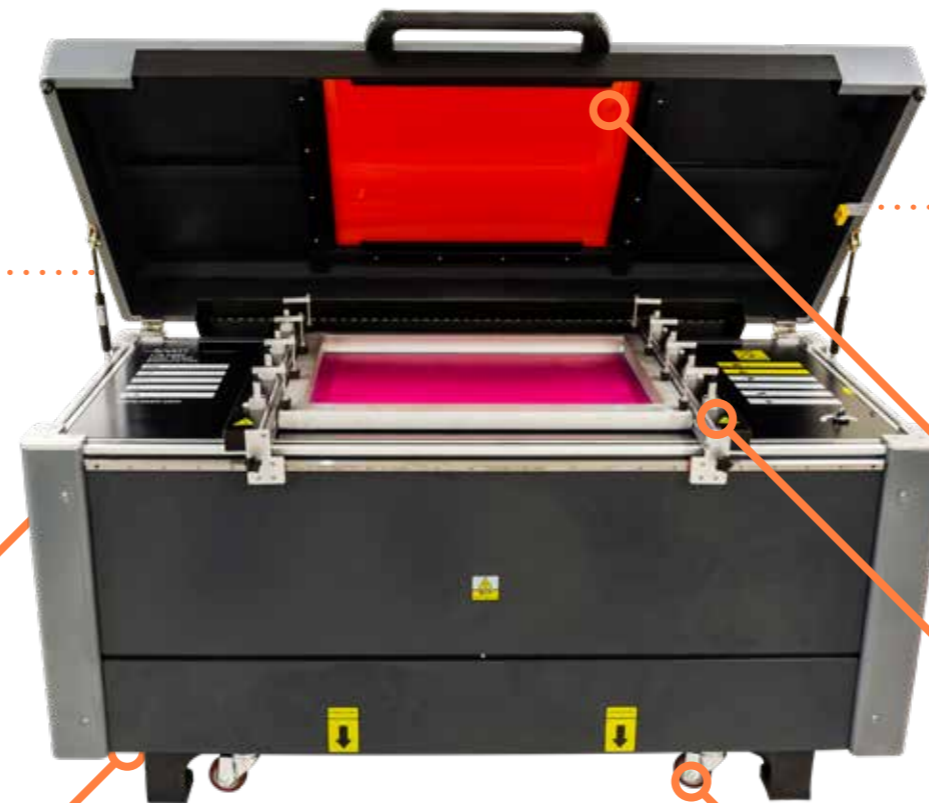High Resolution Digital Direct Laser Image & Exposure Unit

Lasers
96

Dimensions

93cm
36.6"

167cm
65.7"

82cm
32.3"

Weight

597 kg
1316 lbs

Power

110V
standard

240V
with adapter

350W
consumption

Characteristics

Facedown glass panel with enclosing lid
Maximum Single Frame Size:
85 x 110 cm | 33.5 x 43.3"

Safe Viewing Window for
observing exposure program progress

Adaptable to various types
of screen registration systems
Maximum Single Image Size:
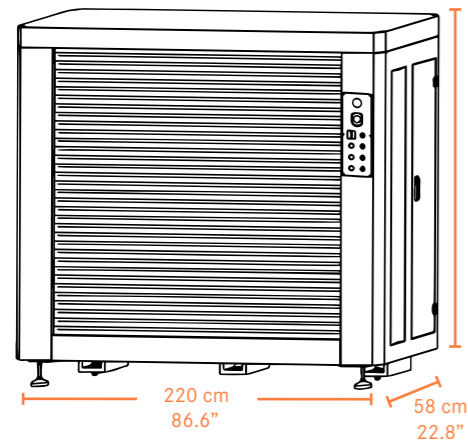**60 x 80 cm | 23.6 x 31.5"**

Solid metal construction provides a
vibration free stencil making platform

Solid casters and slim
build allow easy movement through
standard doorways for unit placement

—SAATI

SAATI LTS 6080-VF

High Resolution Digital Direct Laser Image & Exposure Unit

Lasers

96

Dimensions

163 cm
64"

220 cm
86.6"

58 cm
22.8"

Weight

850 kg
1,874 lbs

Power

110V
standard

240V
with adapter

800W
consumption

Touch screen workflow

Characteristics

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
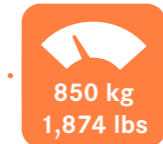a smaller footprint than other CtS machines

Easy to use pedals engage and disengage the frame clamps

Motorized safety shutter

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

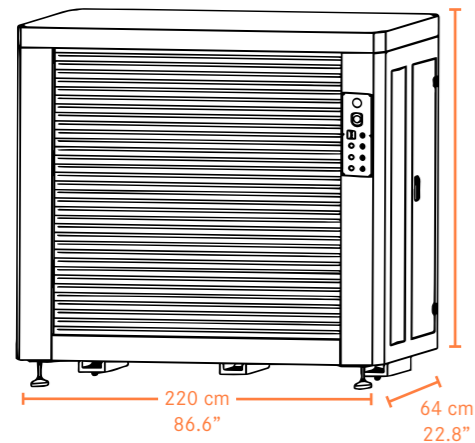**Maximum Image Size:** 60x120 cm | 23.6 x 47.2"
Max Frame Sizes: 1 Screen up to 104 x 167 cm | 41 x 66"
or 2 Screens up to 58 x 78 cm | 23 x 31"

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SAATI LTS 8012

High Resolution Digital Direct Laser Image & Exposure Unit

Lasers
128

Dimensions

163 cm
64"

220 cm
86.6"

64 cm
22.8"

Weight

925 kg
2,039 lbs

Power

110V
standard

240V
with adapter

800W
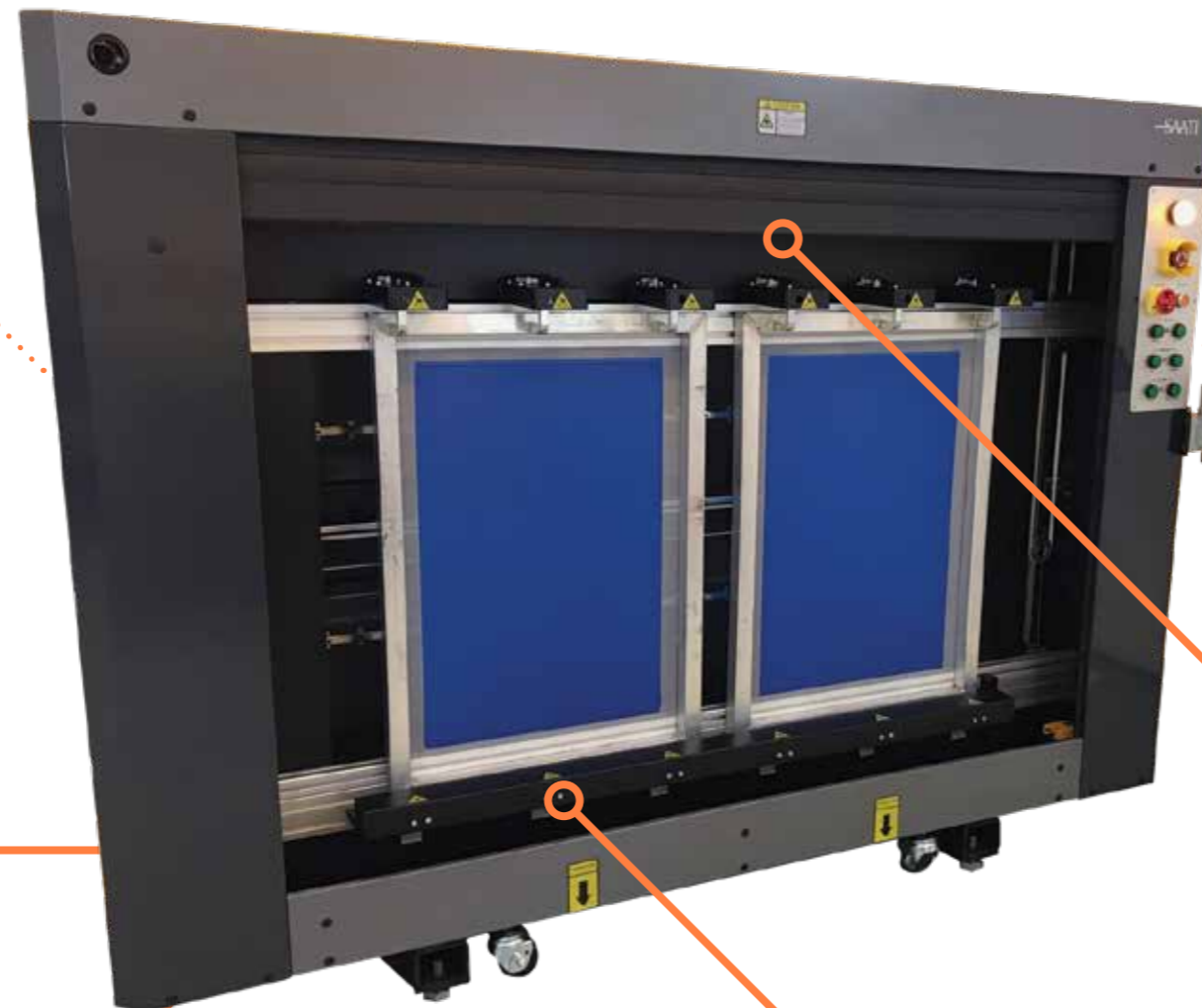consumption

Touch screen workflow

Characteristics

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

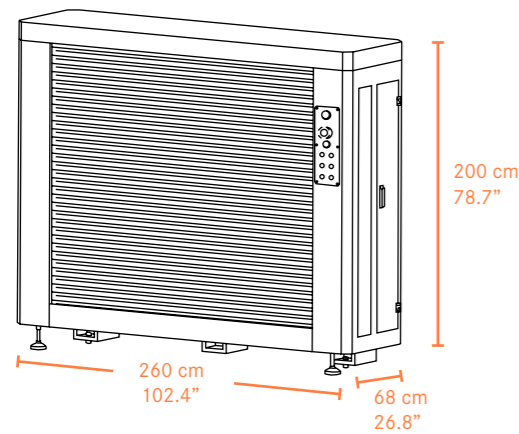Easy to use pedals engage and disengage the frame clamps

Motorized safety shutter

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

Maximum Image Size: 80 x 120 cm | 31.5 x 47.2"
Max Frame Size: 1 screen up to 115 x 167 cm | 45 x 66"
or 2 screens up to 64 x 91 cm | 25 x 36"

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SAATI LTS 1015

High Resolution Digital Direct Laser Image & Exposure Unit

Lasers

160

Dimensions

200 cm
78.7"

260 cm
102.4"

68 cm
26.8"

Weight

**1,200 kg
2,646 lbs**

Power

110V
standard

240V
with adapter

1000W
consumption

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

Characteristics

Touch screen with powerful
workflow software

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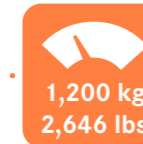easy screen placement and reduced pinholes

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

Motorized safety shutter

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

Maximum Image Size: 100 x 150 cm - 39.4 x 59.1"
Max Frame Sizes: 1 screen up to 140 x 200 cm | 55 x 79"
or 2 two screens up to 63.5 x 91.5 cm | 25 x 36"

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SAATI LTS Series

High Resolution Digital Direct Laser Image & Exposure Units

SAATI LTS Series Individual Specs

Machine	LTS 6080	LTS 6080-VF	LTS 8012	LTS 1015
Lasers	96	96	128	160
Dimension	167 x 82 x 93 cm 65.7 x 32.3 x 36.6"	220 x 58 x 163 cm 86.6 x 22.8 x 64"	220 x 58 x 163 cm 86.6 x 22.8 x 64"	260 x 68 x 200 cm 102.4 x 26.8 x 78.7"
Weight	597 kg / 1316 lbs	850 kg / 1874 lbs	925 kg / 2039 lbs	1200 kg / 2646 lbs
Max Image Size	60 x 80 cm 23.6 x 31.5"	60 x 120 cm 23.6 x 47.2"	80 x 120 cm 31.5 x 47.2"	100 x 150 cm 39.4 x 59.1"
Max Frame Size (x1)	85 x 110 cm 33.5 x 43.3"	104 x 167 cm 41 x 66"	115 x 167 cm 45 x 66.0"	140 x 200 cm 55 x 79"
Max Frame Sizes (x2)	holds more than two small frames	58 x 78 cm 23 x 31"	64 x 91 cm 25 x 36"	64 x 91 cm 25 x 36"
Power Consumption	350 W	800 W	800 W	1000 W

SAATI LTS Series Universal Specs

Resolution	847 - 1016 - 1270 - 1693 - 2540
Voltage	110/240 V
Interface	USB 2.0
Process Mode	Bi-Directional
Stencil Materials	Most kinds of emulsion & film
Max. Recommended Stencil Thickness	700 μm
Repeatability	Less than 0.1 mm
Sample Exposure Settings	Fabric Type SAATI Hi-R 120.34 (305.34) | Color: Yellow Emulsion: SAATIgraf CTS7 | EOM: 9 μm DPI:1270 | Power: 50 | Speed: 300 SAATI 21-Step Exposure Level: Step 5 **Time: Less than 3.5 Minutes**