SAATILTS Machines

2024

Introduction

SAATI is a global leader in the development, production, and commercialization of cutting-edge technical fabrics, membranes, chemicals and equipment engineered for several industrial applications.

Our expertise encompasses multiple markets, including healthcare, automotive, aerospace, consumer electronics, food, appliance, textile, graphics, glass, architecture, and ballistic protection. Each business unit operates with an independent production process, ensuring flexibility and adaptability to the evolving requirements of each market.

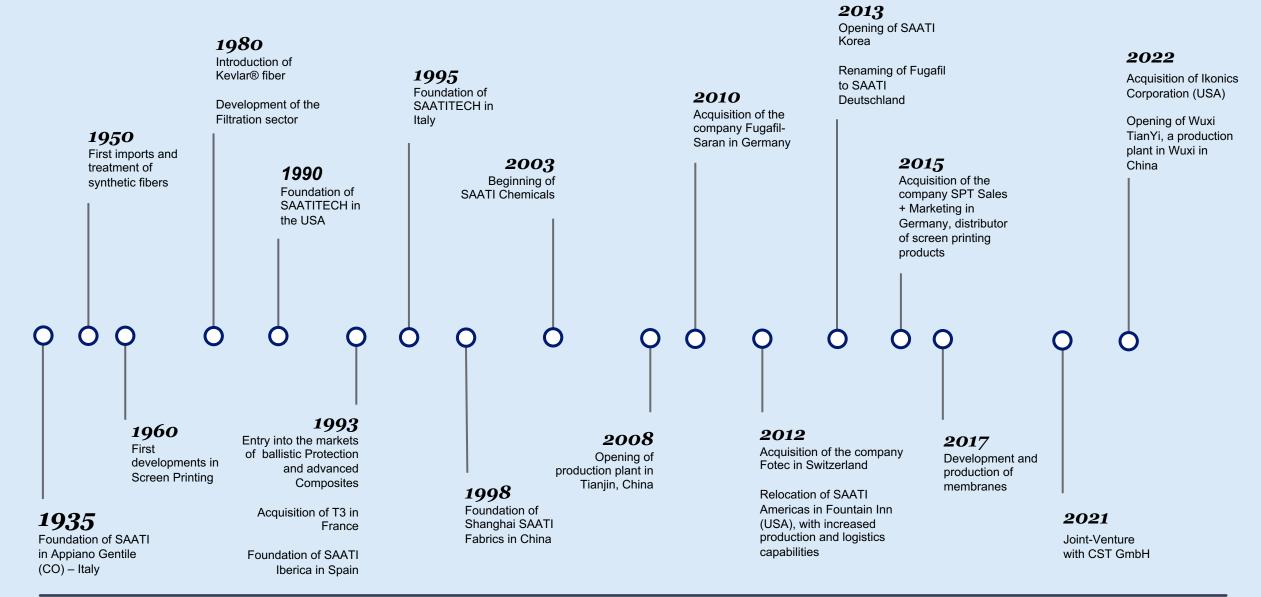






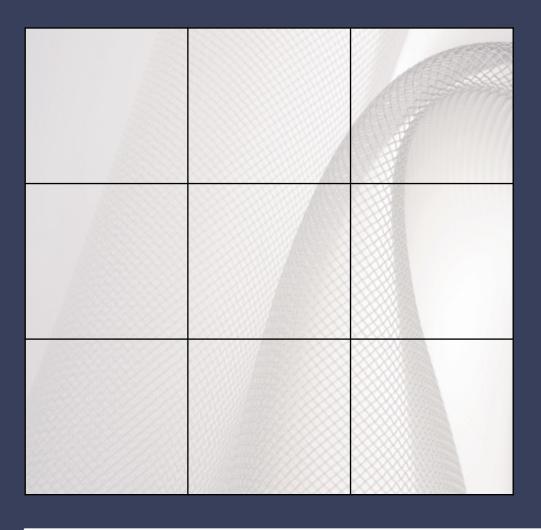


Milestones





Our Company

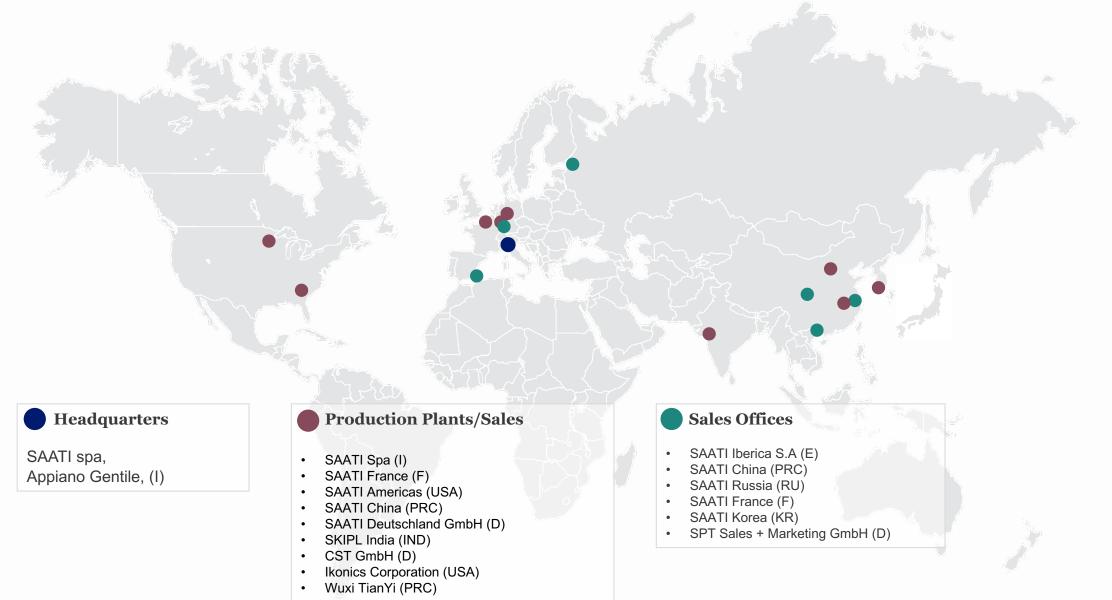


€ 187 MSales Volume (2023)

1030 Employees (worldwide)

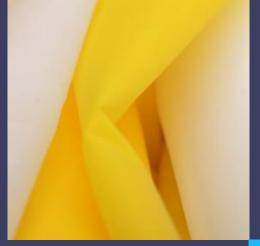
4
Distinctive Areas of Application
(Printing, Filtration, Chemicals and Protection)

Global Presence





What We Do



Monofilament
Multifilament
& Aramid
Fabrics



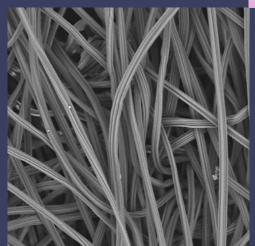
Screen Printing Equipment

Screen Printing
Emulsions &
Chemicals



Conveyor Belts





Membranes

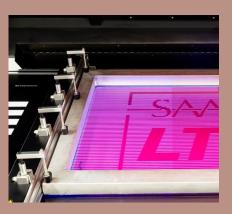


Fabricated Parts

Screenprinting







Main Application Areas













We are "Solution Provider" in the prepress/on-press screen printing sector.

We are the only industrial company in
the world to simultaneously manufacture
and sell both textiles, chemical products &

This synergy helps to ensure the best quality, an extensive range and the highest performance levels in the application phase.

equipment for the screen printing process.

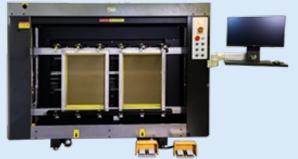


LTS Range – 1st Gen

Machine	Weight		Machine Size		Max Single Frame Size		Max Image Size	
	(lbs)	(kg)	(in)	(cm)	(in)	(cm)	(in)	(cm)
LTS 1015	2646	1200	102.4 x 26.8 x 78.7	260 x 68 x 200	59.1 x 74.8	1500 x 1900	39.4 x 59.1	100 x 150
LTS 8012	2039	925	86.6 x 22.8 x 64	220 x 58 x 163	41.3 x 63	105 x 160	31.5 x 37	80 x 120
LTS 6012	1874	850	86.6 x 22.8 x 64	220 x 58 x 163	41.3 x 63	105 x 160	23.6 x 47	60 x 120
LTS 6080	1316	597	65.7 x 32.3 x 36.6	167 x 82 x 93	33.5 x 43.3	85 x 110	23.6 x 31.5	60 x 80







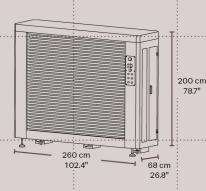






High Resolution Digital Direct Laser Image & Exposure Unit

Dimensions



Characteristics

Touch screen with :
powerful workflow software

Glass-free vertical loading and frame look 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

Lasers

160

2,646 lbs

Weight Power



110V standard

240V

1000W consumption

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 more standard size screens

Maximum Image Size: 100 x 150 cm - 39.4 x 59.1"

Max Frame Sizes: 1 screen up to 145 x 200 cm | 59.1 x 74.8"

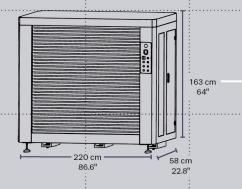
or 2 two screens up to 63.5 x 91.5 cm | 25 x 36"



LT\$ 012

High Resolution Digital Direct Laser Image & Exposure Unit

Dimensions



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

Lasers

128

Weight Power





110V standard

240V with adapter

800W consumption

···Touch screen workflow-

... 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"

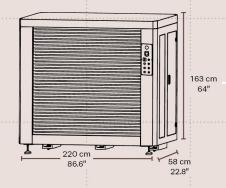
Max Frame Size: 1 screen up to 105 x 160 cm | 41.3 x 63"

or 2 screens up to 64 x 91 cm | 25 x 36"

LTS

High Resolution Digital Direct Laser Image & Exposure Unit

Dimensions



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

Lasers

96

Weight Power

850 kg 1,874 lbs



110V standard

240V with adapter

800W

consumption

Touch screen workflow

Motorized safety shutter

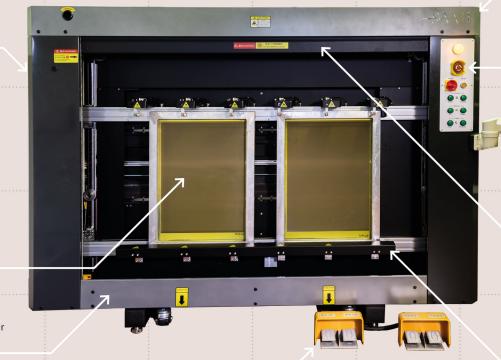
Large frame holding area enables simultaneous imaging & exposure of either large screens, or 1 or 2 standard size screens

Maximum Image Size: 60x120 cm | 23.6 x 472"

Maximum Image Size: 60x120 cm | 23.6 x 47.2"

Max Frame Size: 1 screen up to $105 \times 160 \text{ cm} \mid 41.3 \times 63''$

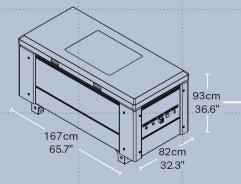
or 2 Screens up to 58 x 78 cm | 23 x 31"





High Resolution Digital Direct Laser Image & Exposure Unit

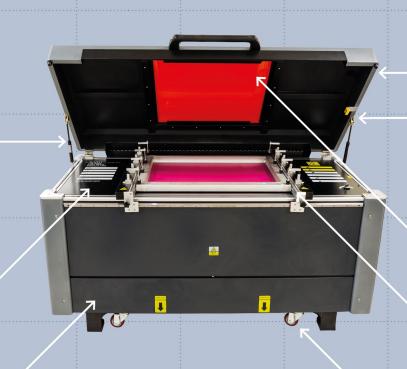
Dimensions



Characteristics

Facedown glass panel with enclosing lid

Maximum Single Frame Size: 85 x 110 cm | 33.5 x 43.3"



Lasers

96

Weight

Power

1 597 kg 1316 lbs



110V standard

240V with adapter

350W

consumption

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

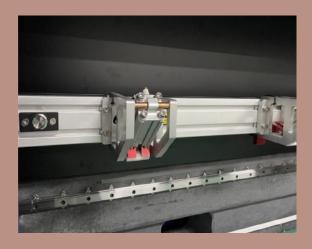
Solid casters and slim build allow easy movement through standard doorways for unit placement

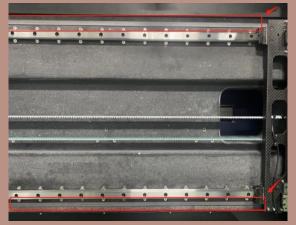
2nd Generation LTS Debut – LTS 8012 HD

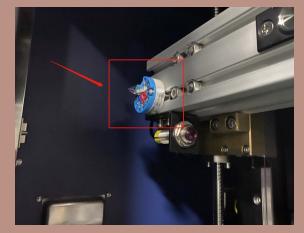
The industry leading LTS Series is part of a dynamic equipment program that continues to evolve. Over time the software becomes more powerful - without overwhelming operators - and every part of the hardware, from the casters to the encoders, is also subject to this continuous evolution.

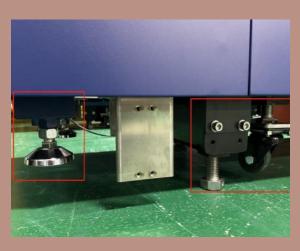
Now SAATI unveils a clear step in the evolutionary process – the 2nd Generation LTS 8012 HD.

Features like 5080 DPI support, individual frame clamp controls, dual encoders and new frame temperature sensors enable an even greater level of detail, consistency and repeatability that represent the future of screen making.





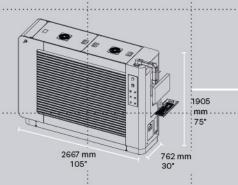




LTS 012 HID

High Resolution Digital Direct Laser Image & Exposure Unit

Dimensions



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 2,943 lbs

Lasers

128

Weight

Power

110V

240V with adapter

800W consumption

Touch screen workflow

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 110 x 160 cm | 43 x 63"

or 2 screens up to 64 x 91 cm | 25 x 36"

Easy to use pedals engage and disengage the frame clamps

Common

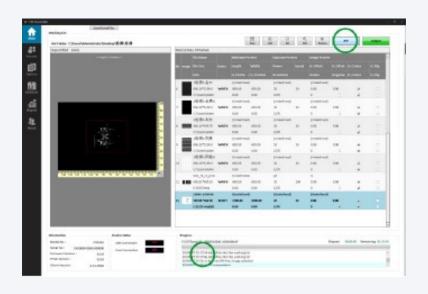
Characteristics

Operational

- 405nm laser array
- Driven by Windows 10 PC with optional RIP
- 110 / 240V Power
- Quiet, vibration-free operation
- Remote Monitoring

Set up

- Pass through standard door frames
- Heavy duty casters for easy movement without forklift
- No specific environmental requirements (heat/humidity)





LTS Series

Features



Precision Choices

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



Power Settings

Quickly and thoroughly cure even very high EOM two-part emulsions



Long Life

LTS lasers have an operational life of 10,000+ hours and minimal maintenance



Flexibility

Register, image & expose multiple images simultaneously



Simplified Process

Eliminating film registration. Image & Cure in one process



Digital Archive

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



Resolution Settings

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

1016 1270 1693 2540 847 Middle Highest Low Setting Setting Setting

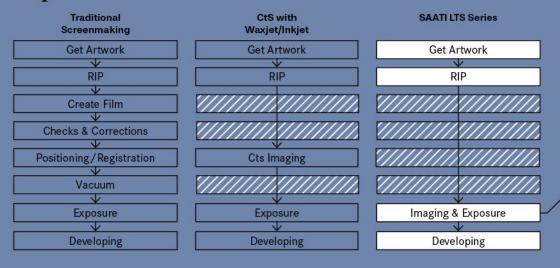
Fastest Superior processing times Superior to

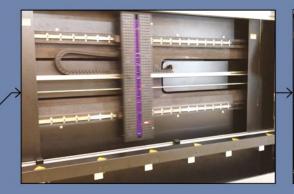
inkjet films

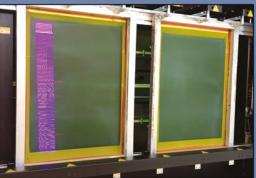
- to inkjet/ waxjet resolution
- Equivalent to DLE systems
- Superior to many other DLE systems
- Image setter quality for the most demanding

prints

Improvements to Workflow







Features & Target Markets

6080

- Perfect for small format & ad-specialty printers, garment printers still using film
- Face-down glass design for easy screen placement & registration
- Hardware & software support the registration & imaging of multiple small screens

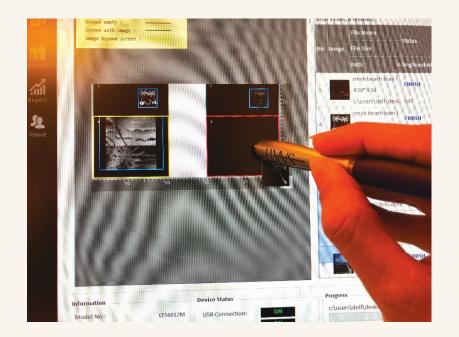
6012 & 8012

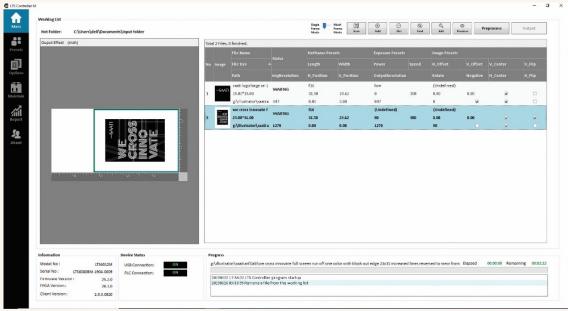
- Perfect for garment & apparel printers
- Glass free design with reduced pinholes replaces ink & wax CTS machines
- 6012 capable of processing two 23x31 screens simultaneously
- 8012 capable of processing 25x36" screens simultaneously

1015

- Perfect for mid-format industrial & textile transfers
- Larger format screen making at an affordable price point
- Also processes two 25x36" screens at the same time
- Maintains similar screen cycle time to the smaller units in the LTS range

Software Features & Workflow





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
- After screen imaging, layouts go to designated folder for archiving or deletion

Software Features & Workflow

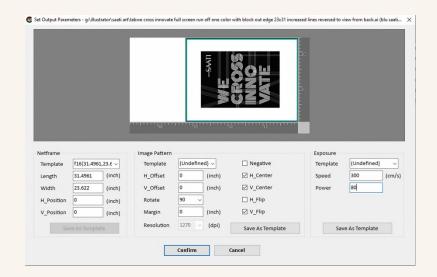
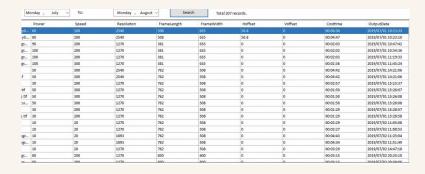


Image & Cure at High Speed

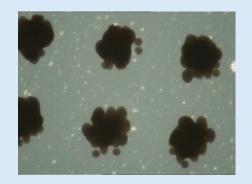
- Set the laser power and scan speed to effectively and thoroughly cure all emulsion and film types in under 3:00
- Customize settings and/or create standard templates for future use
- Proprietary file naming system allows for automatic selection of Netframe, Image Pattern & Exposure settings (not required)



Create Your Own Archive

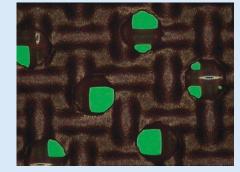
- Processed files settings are saved
- Create your own file archive for easy retrieval through the search function

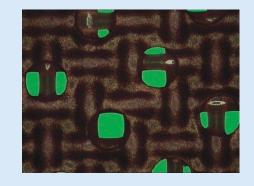
Resolution & Definition – Inkjet vs LTS





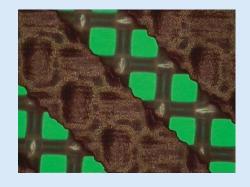


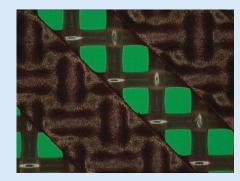


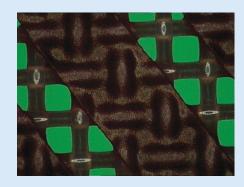












Inkjet Mask

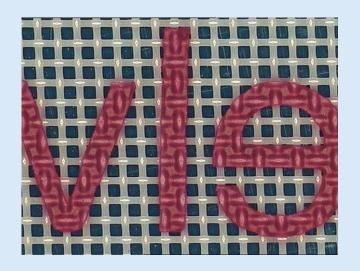
Inkjet Stencil

847 dpi LTS Stencil

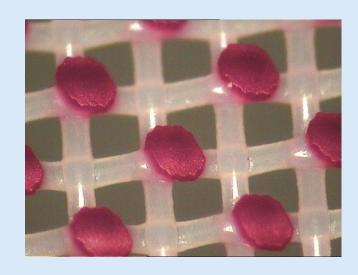
1270 dpi LTS Stencil

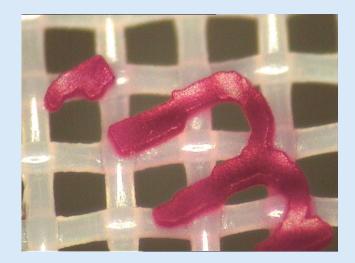
2540 dpi LTS Stencil

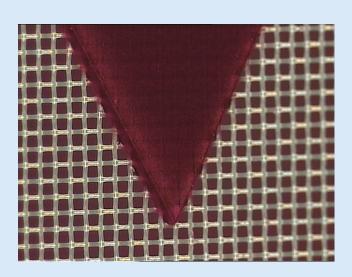
No Limits







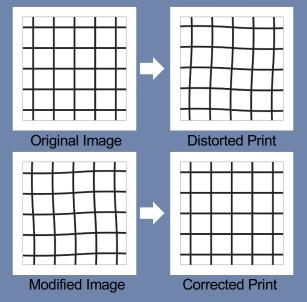


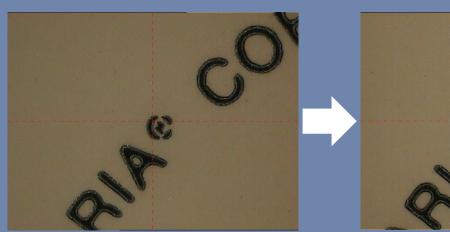


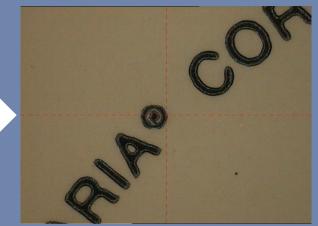
LTS technology is capable of producing stencils with all emulsion types, from all manufacturers, on any mesh - including super high thickness – without sacrificing productivity or quality

Advanced Uses









Match Inkjet Film

Image size, skew & fit adjustment – Match Inkjet film

Line Refine

Control small
 elements +/- 1 µm
 to retain printability

