



Single & Double Side UV Exposure Roll to Roll

FPCB / Flex

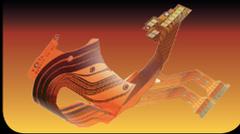
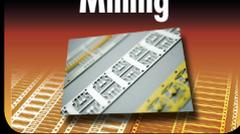


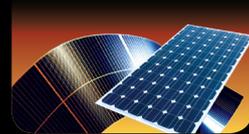
Photo Chemical
Milling



Touch Panel



Photovoltaics



LedLight™
ColliLight™



Solution For High-End Roll to Roll Exposure Processes

Resolution

15µm | 0.6mil
Line & Space

Registration

±5µm | 0.2mil
AW/AW

Throughput

Up to 8000
images/day

High Savings

High Power
UV LEDs



ALTIX
AUTOMA-TECH™



AcuReel Single & Double Side UV Exposure Roll to Roll



Cover Hood

Low tension material control & Anti-scratch material solution



UV Light Sources



Fully Intuitive & Friendly HMI

High Exposure Resolution

High Power UV Leds - Ultimate Cost Saving

Stitching function

No artwork expansion

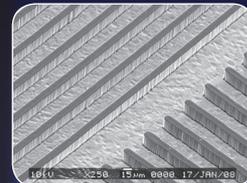
AcuReel Specifications

APPLICATIONS	FPCB / Flex • Photo Chemical Milling • Touch Panel • Photovoltaics	
Process	Inner Layers, Outer Layers & Coverlay / Soldermask / PSR	
Exposure Area	Up to 550mm x 650mm	• Up to 21.6" x 25.6"
Web Thickness	Down to 15µm + copper	• 0.6mil
RESOLUTION	15µm/15µm • 0.6mil/0.6mil (Line & Space) for dry film ⁽¹⁾ Min Dam 50µm • 2mil for Soldermask ⁽¹⁾	
Light Engine	ColliLight™ 5kW & 8kW	LedLight™
Light Intensity	≥25mW/cm ² (5kW lamp) ≥40mW/cm ² (8kW lamp)	Up to 55mW/cm ²
Collimation	≤ 1.5° ⁽²⁾	≤ 1.6° ⁽²⁾
Declination	≤ 1° ⁽²⁾	No declination ⁽²⁾
Uniformity	≥ 80% ⁽³⁾	≥ 85% ⁽³⁾
Dry Film Resist	For all types of dry film	
Coverlay / Soldermask / PSR	For all types of solder resist: green, white, blue, red, black...	
Exposure Method	Double side or single side	
Exposure Contact	Soft or hard contact vacuum – CMI™ available	
ALIGNMENT	±5µm / 0.2mil AW/AW (after vacuum) ±8µm / 0.32mil AW/Web (after vacuum) ±3µm / 0.12mil Repeatability (after vacuum)	
CCD Cameras	4 cameras for I/L & O/L 4 cameras + 4 cameras for Coverlay / Soldermask / PSR	
Mask	Compatibility Glass Mask & Film Mask	
THROUGHPUT	Up to 8000 images/day ⁽⁴⁾	
Batch Changeover	≤ 5 minutes - Masks & Settings change	
SOFTWARE	ALTIX SUITE with 17" touch screen	
Languages	English, Simplified & Traditional Chinese, Korean, German, French...	
HIGH YIELD		
Air Cleanliness	Hepa filter class 100 & Clean Dry Air Network (CDA)	
Features	Tacky roller (web cleaner) including deionization system	
Construction	Stainless steel	
GENERAL UTILITIES		
Power Supply	220/400/480V • 3 Phases • 50/60Hz	
Air Supply	6~7 bars with 1.5 m ³ /min	
Power Consumption	17kW (2x5kW lamps)	6kW with LedLight™
	25kW (2x8kW lamps)	
Water Supply	20-30 l/min @3 bars (for 2x5kW unit)	20-30 l/min @3 bars
	50-80 l/min @3 bars (for 2x8kW unit)	
UV source cooling	Air cooled / Close Loop Lamp Cooling (CLLC)	
Machine Weight	4,750kg • 10,450lbs	5,250kg ⁽⁵⁾ • 11,550lbs ⁽⁵⁾
Dimensions	5,350mm (L) x 2,978mm (W) x 2,350mm (H) • 211" (L) x 117" (W) x 93" (H) 5,350mm (L) x 2,430mm (W) x 2,350mm (H) ⁽⁵⁾ • 211" (L) x 96" (W) x 93" (H) ⁽⁵⁾	

(1) depending on photoresist, surface preparation & DES process • (2) depending on max. exposure area
(3) depending on exposure area - calculation: Min/Max • (4) depending on process • (5) with cabins



High Cost-Performance efficiency with UV Led Solutions



High Resolution: 15µm (L/S)



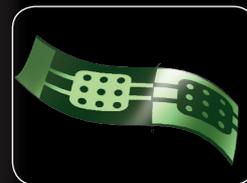
Throughput: ≥ 8,000 images/day



High Registration Capabilities: ±5µm



High Production Yield: Low tension material control & Anti-scratch material solution



Stitching function: < 20µm, special hardware & algorithm to compensate image to image misalignment



Manufacturing, Sales & Service:

Europe: Altix France – HQ

Email: central@altix.fr

Taiwan: Altix Asia

Email: central@altixasia.com

Direct Sales & Service:

Asia: Altix China

Shanghai, Kunshan,

Zhuhai Offices

Email: central@altix.cn

North America:

Altix NA, Inc.

West Coast, Middle West

and East Coast

Email: central@altix.us

Imaging with us!



www.altix.fr