AcuReel 300 & 550

Single & Double Side UV Exposure Roll to Roll

FPCB / Flex

Photo Chemical Milling

Photovoltaics

Touch Panel

AcuReel 300

AcuReel 550

LedLight™

ColliLight™

ALTIX LED Green Technology

Solution For High-End Roll to Roll Exposure Processes

Resolution

Down to 15µm | 0.6mil

Registration

±5µm | 0.2mil AW/AW

Throughput

Up to 8500 images/day

High Savings

High Power UV LEDs

ALTIX AUTOMA-TECH™

Made in France

AcuReel 300 AcuReel 550

Cleanliness Hood

New Unwinder / Winder with low tension material control & Anti-scratch material solution

UV Light Sources

LedLight™   ColliLight™

- Fully Intuitive & Friendly HMI
- High Exposure Resolution
- High Power UV Leds - Ultimate Cost Saving
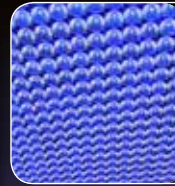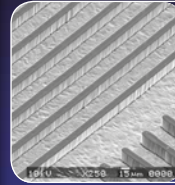- LedLight Source: No Artwork Expansion
- Stitching Function

AcuReel 300 & 550 Specifications

APPLICATIONS	FPCB / Flex • Photo Chemical Milling • Photovoltaics • Touch Panel	
Process	Inner Layers, Outer Layers & Coverlay / Soldermask / PSR	
Exposure Area		
- AcuReel 300	Up to 300mm x 650mm	• Up to 11.8" x 25.6"
- AcuReel 550	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/cm² (5kW lamp)	Up to 55mW/cm²
	≥40mW/cm² (8kW lamp)	
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 8500 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 m³/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		
- With Contact Rollers	4,983mm (L) x 2,375mm (W) x 2,350mm (H) • 196" (L) x 94" (W) x 93" (H)	
- With Pulling Table	4,225mm (L) x 2,378mm (W) x 2,350mm (H) • 166" (L) x 94" (W) x 93" (H)	

(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

Best Cost / Performance Ratio:
Advanced UV Led Solution provides the Best Resolution at the Lowest Cost per Image

High Resolution:
15µm (Line & Space)

High Throughput:
> 8 500 Images per Day

High Registration Capabilities:
±5µm Artwork to Artwork

High Production Yield:
Low Tension Material Control & Anti-Scratch Material Solution

Stitching Function:
< 20µm
Patented Hardware & Algorithm to provide a perfect Stitching for Image « N » to Image « N+1 »

ALTIX

Imaging with us!

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