

Single & Double Side UV Exposure Roll to Roll











AcuReel 300







AcuReel 550



INDUSTRY

Solution For High-End Roll to Roll Exposure Processes

Resolution



Down to 15µm | 0.6 mil

Registration



±5μm | ±0.2mil AW/AW

Throughput



Up to 8500 images / day

High Savings



High Power UV LEDs













Fully Intuituve & Friendly HMI

High Exposure Resolution

High Power UV Leds – Ultimate **Cost Savings**

Led Light Source: No Artwork Expansion

Stitching Function

Cleanliness Hood



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

UV Light Sources





AcuReel 300 & 550 Specifications

APPLICATIONS FPCB / Flex • Photo Chemical Milling • Photovoltaics • Touch Panel Inner Layers, Outer Layers & Coverlay / Soldermask / PSR

Exposure Area

AcuReel 300 Up to 300mm x 650mm Up to 11.8" x 25.6" Up to 550mm x 650mm AcuReel 550 Up to 21.6" x25.6" Down to 15µm + copper

Web Thickness **RESOLUTION**

Collimation

15μm/15μm • 0.6mil/0.6mil (Line & Space) for dry film (1)

0.6mil

Min Dam 50µm • 2mil for Soldermask (1)

Light Engine ColliLight™ 5kW & 8kW LedLight™ Up to 55mW/cm²

Light Intensity ≥25mW/cm² (5kW lamp) ≥40mW/cm² (8kW lamp)

≤ 2° (2) ≤ 1.6° ⁽²⁾

Declination ≤ 1° (2) No declination (2)

Uniformity ≥ 80% ⁽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

English, Simplified & Traditional Chinese, Korean, German, French... Languages

HIGH YIELD

Air Cleanliness Hepa filter class 100 & Clean Dry Air Network (CDA) Tacky roller (web cleaner) including deionization system

Construction Stainless steel

GENERAL UTILITIES

220/400/480V • 3 Phases • 50/60Hz 6~7 **Power Supply**

Air Supply bars with 1.5 m³/min **Power Consumption** 17kW (2x5kW lamps)

6kW with LedLight™ 25kW (2x8kW lamps)

20-30 I/min @3 bars (for 2x5kW unit) **Water Supply**

20-30 I/min @3 bars

50-80 I/min @3 bars (for 2x8kW unit)

Air cooled / Close Loop Lamp Cooling (CLLC) **UV** source cooling **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) 4 225mm (L) x 2 378mm (W) x 2 350mm (H) • 166" (L) x 94" (W) x 93" (H) With Pulling Table

(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 cabin



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

N » to Image « N+1 »



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