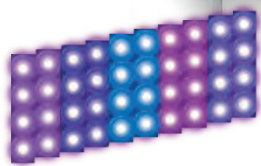
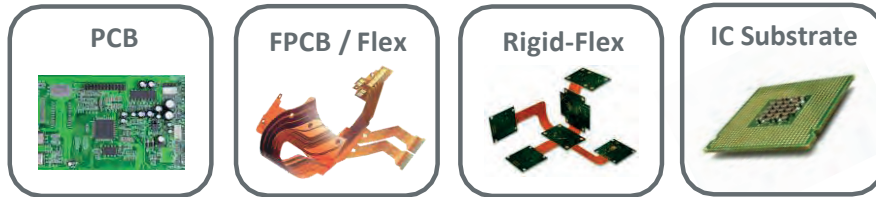


## Full-Automatic Double Side Exposure



MACH:3® & MACH:5®  
LEDLight™

**Higher** Precision  
Productivity  
Cost Savings

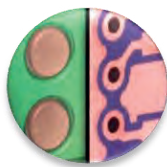
## Best Imaging Solution - Best Cost/Performance Ratio

Resolution



Down to  
50µm | 2 mil Dam

Registration



±8µm | ±0.3mil  
AW/Panel

High  
Throughput



Up to 4 panels per  
minute

High Savings



High Power  
UV LEDs



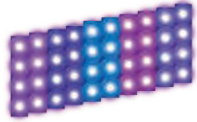
**ALTIX**  
Direct Imaging & Contact Printers





# For Soldermask/PSR

High Power & Multiple Wavelengths LedLight™ Source



LedLight™  
MACH3® & MACH5®



- Fully Intuitive & Friendly HMI
- High Accuracy Registration
- Print on All Kinds of Soldermasks Inks
- Best Cost/Performance Ratio

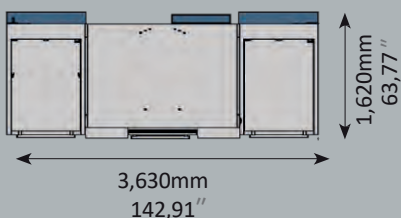
## Acura Soldermask / PSR Specifications

<b>APPLICATION</b>	PCB • FPCB/Flex • Rigid-Flex • IMS PCB • IC Substrate	
<b>Process</b>	Soldermask / PSR	
<b>Exposure Area</b>	Up to 610mm x 762mm	• Up to 24" x 30"
<b>Panel Thickness</b>	0.05mm to 6mm	• 0.002" to 0.236"
<b>RESOLUTION</b>	<b>Min Dam 50µm • 2mil (1)</b>	<b>Min Dam 75µm • 3mil (1)</b>
<b>Light Engine</b>	<b>Mach3®</b>	<b>Mach5®</b>
<b>Light Intensity</b>	≥ 135mW/cm² (instantaneous UV power)	200mW/cm² (instantaneous UV power)
<b>Collimation</b>	≤ 3°	≤ 5°
<b>Declination</b>	No declination – Scanning system	No declination – Full array
<b>Uniformity</b>	≥ 90% (2)	≥ 88%
<b>Exposure Spectrum</b>	3 LEDs wavelengths (365/395/405nm)	5 LEDs wavelengths (365/385/395/405/415nm)
<b>Exposure Energy</b>	50mJ/cm² to 2000mJ/cm²	150mJ/cm² to 5000mJ/cm²
<b>Soldermask/PSR Resist</b>	For all types & colors of ink	For all types & colors of ink
<b>Exposure Contact</b>	Soft or hard contact vacuum – CMI™ available	Soft or hard contact vacuum – CMI™ available
<b>THROUGHPUT</b>	<b>Up to 3 panels/minute for energy within 250mJ/cm² (3)</b>	<b>Up to 4 panels/minute for energy within 250mJ/cm² (3)</b>
<b>CCD Cameras</b>	8 cameras (4 per side) + 2 cameras for pre-alignment before exposure	
<b>Lighting</b>	Adequate lighting for copper pad detection	
<b>ALIGNMENT</b>	±8µm • 0.3mil for Artwork to Panel (copper pad fiducials)	
<b>Batch Changeover</b>	≤ 4 minutes – Artwork change and cleaning, job setting update	
<b>SOFTWARE</b>	ALTIX SUITE with 17" touch screen	
<b>Languages</b>	All languages available: English, Simplified & Traditional Chinese, Korean, German, French...	
<b>ENVIRONMENT CONTROL</b>		
<b>Air Cleanliness</b>	Hepa filter class 100	
<b>Temperature control</b>	Exposure area Cooling system – Room temperature [0; + 3°C]	
<b>Features</b>	Stainless Steel covers	
<b>GENERAL UTILITIES</b>		
<b>Power Supply</b>	220/400/480V • 3 Phases • 50/60Hz	
<b>Air Supply</b>	6~7 bars • 1.5m³/min	
<b>Power Consumption</b>	7 kW (for Mach3®)	12 kW (for Mach5®) – chiller included
<b>Water Supply</b>	5 l/min	
<b>Machine Weight</b>	2,200kg • 4,850lbs	

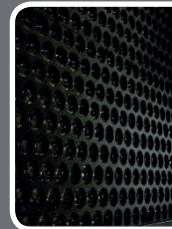
(1) depending on the process parameters • (2) the formula is Min/Max • (3) depending on the process

## Small Foot Print & Fast Installation

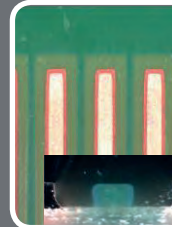
Top view



The Acura Soldermask foot print is smaller by 30% to 40% than all other solutions in the market. It is a unique all-in-one and plug and play solution that is easy to install: plug power, air & water and it is ready to produce!



**Best Cost-Performance Efficiency with LedLight™ Mach3® & Mach5®**  
High Power & Multiple Wavelengths UV Led Independently Adjustable



**High Resolution: 50µm || 75µm**  
Multi-Wavelengths UV Led for Best Resolution & Higher Polymerization Efficiency on all Types & Colors of Solder Resists



**High Throughput:**  
Mach3® : > 4000 Soldermask / PSR Panels per Day  
Mach5® : > 5500 Soldermask / PSR Panels per Day



**Very Accurate Registration:**  
±8µm | 0.3mil AW / Panel



**Smart Remote Access:**  
TCP / IP Connection for Live Control & Troubleshooting



**Manufacturing, Sales & Service:**  
Altix France – HQ  
Email: central@altix.fr

**Asia:**  
Altix China Shanghai,  
Kunshan, Zhuhai Offices  
Email: central@altix.cn

**North America:**  
Altix NA, Inc.  
United States, Canada, Mexico  
Email: central@altix.us

**Imaging with us!**



www.altix.fr