# **ENVISION<sup>®</sup>**

**Direct Metallization System** 

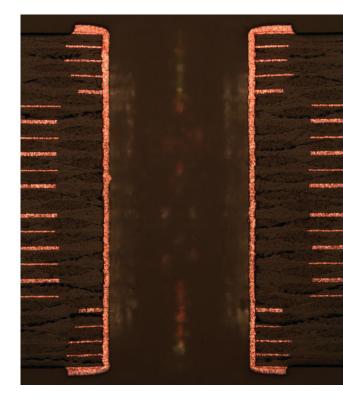
# No Job Too Small. ENVISION<sup>®</sup> Has You Covered.

**ENVISION**<sup>®</sup> meets the volume demand for PCBs and providing a greener world are no longer incompatible goals. ENVISION direct metallization process delivers more board capacity with substantially improved performance. ENVISION polymer-based system is unlike any other direct metallization process on the market today.

You no longer need to choose between performance and increased capacity. You only need to choose ENVISION.

# **KEY FEATURES**

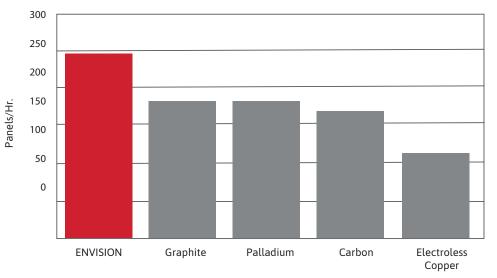
- Lowest cost of ownership vs. electroless copper and other direct metallization alternatives
- Meets or exceeds performance and reliability standards
- Delivers reliable processing of microvias and high aspect ratio multilayers in a single pass
- Short, three-step process increases productivity
- Low viscosity ensures thorough wetting of blind vias
- Eliminates interconnect defects
- Reduces water usage, energy consumption and waste treatment by eliminating electroless copper
- High performance, ecofriendly, direct metallization process







## CIRCUITRY SOLUTIONS



**Productivity Increase** 

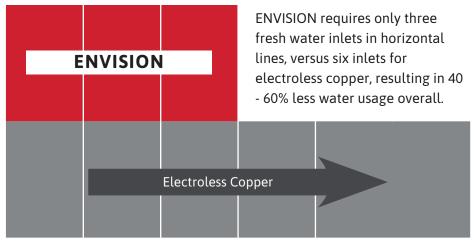
Production Output • 15 Meter Long Horizontal Line

#### **Energy Use Comparison**

Energy Consumption	Electroless Copper	ENVISION
Hourly Consumption	220 kilowatts	135 kilowatts
Per m <sup>2</sup>	3.67 kilowatts	2.25 kilowatts
Annual Consumption	1.3 million kilowatts	0.8 million kilowatts

Calculation based on 2.0 meter/minute horizontal line.

#### **Water Reduction Comparison**





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### CIRCUITRY SOLUTIONS