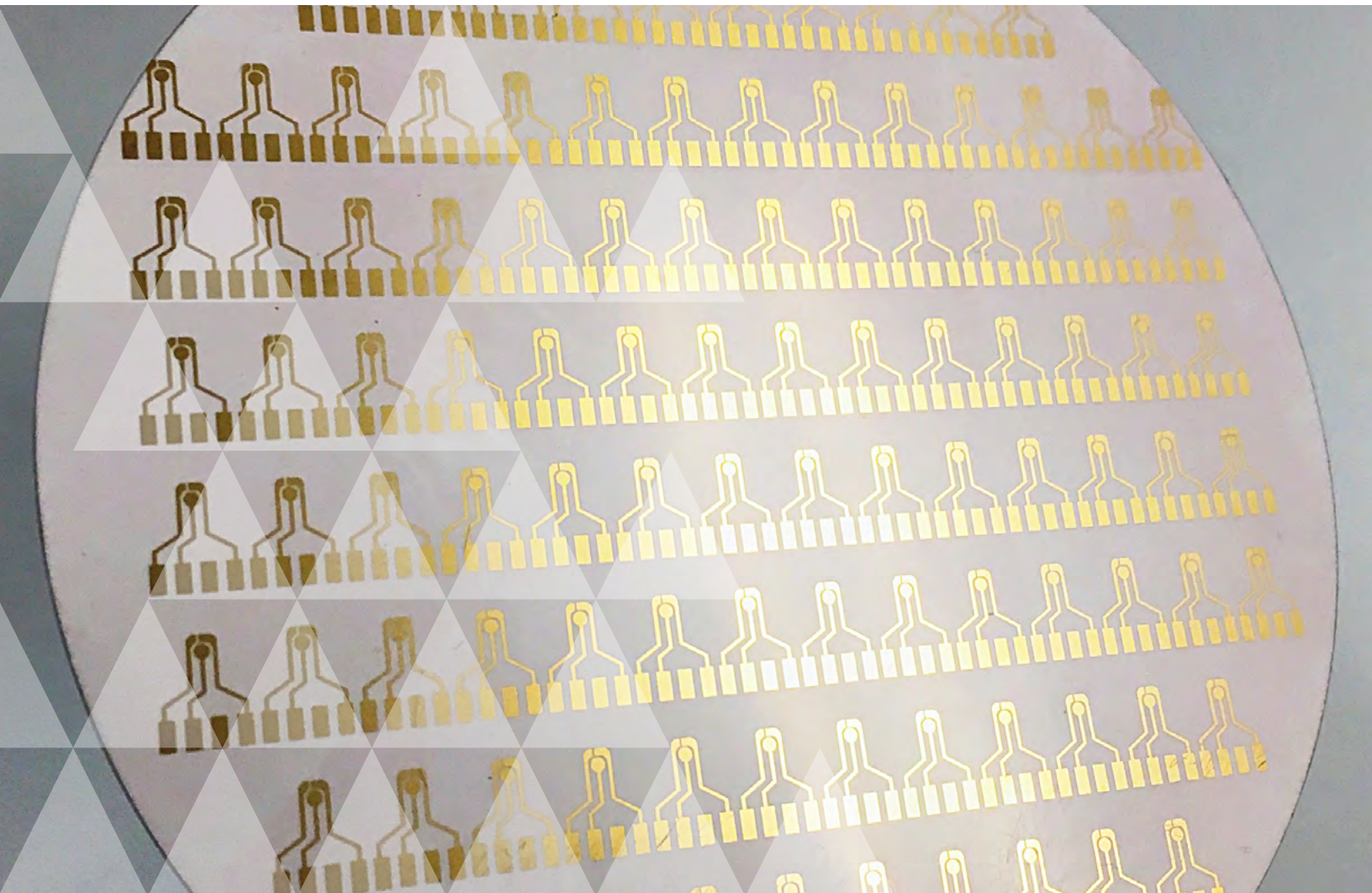




MATERION



PRECISION COATINGS

Patterned
Circuits

Patterned Circuits

The Challenge

As technical devices become more sophisticated, so does the need for new and improved technologies to keep pace. There is pressure on Industry, as evidenced by recent commercial and regulatory changes in the blood glucose test strips (BGTS) market, to source low-cost patterned sensors on thin film on a larger scale than is typically available. High growth materials applications, such as point-of-care testing, wearables, health and wellness personal devices and Internet-of-Things sensors, are facing similar commercial pressure.

The Solution

Addressing these challenges will require partnering with a company that can offer a one-stop solution that takes the customer from component development to cost-effective roll-to-roll material production. Materion Precision Coatings is a technology-based manufacturer of precision-coated materials specializing in sputter thin films onto flexible substrates. We employ innovative laser ablation technology that focuses on thin film circuits and the requirement to produce patterns on large area flexible substrates. Our offerings deliver broader value with additional circuit features and customized services.

- Custom fabrication and patterning
- One-stop development to production cycle
- Unique scale-up path for roll-to-roll deposition and sensor patterning
- Design and materials flexibility to meet customer needs



Precision converting of custom thin film-coated web.

BENEFITS

Our breadth of experience and resources provide these advantages:

- Unique capabilities in product development
- Scalable for volume production
- Materials development expertise
- Novel thin film alloys
- Design for manufacturability
- In-house analysis, including electrochemical characterization
- ISO-13485 Certification

APPLICATIONS

- Electrochemical Sensing
- Medical Devices
- ITO Patterning
- Touch Sensors & Display
- Wearables
- Microfluidics
- Energy Storage

MARKETS

- Medical
- Display
- Flexible Electronics
- Aerospace & Defense
- Alternative Energy
- Industrial Thin Film Markets

RELATED SERVICES

- Web converting
- Wafer level fabrication
- Optical coatings
- Deposition materials
- Roll-to-roll Electroplating



MATERION

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MATERION CORPORATION

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MATERION PRECISION COATINGS is a technology-based manufacturer of precision-coated materials specializing in sputter thin films onto flexible substrates. By leveraging broad resources and capabilities in product development and high volume production, we strategically extend the supply chain for our customers in the medical, display, flexible electronics, aerospace & defense, alternative energy and industrial thin film markets.