



**Contact: Bob Schauer, Director of Sales & Service**  
(919) 462-1919, Email: [bschauer@microcure.com](mailto:bschauer@microcure.com)

## **FOR IMMEDIATE RELEASE**

### **Lambda Technologies Ships Large Area Diamond Deposition System**

Lambda Technologies announced that it delivered a large area diamond deposition system for coating substrates up to 200mm in diameter. The DiamoTek 1800 series product is a plasma enhanced, microwave CVD system that incorporates a 915MHz magnetron power supply and Lambda's proprietary tunable resonant microwave reactor. The system includes all vacuum and gas handling facilities, is fully automated and designed for clean room installation.

According to Joe Wander, Director of Lambda Plasma Products Group, "The challenge in large area diamond deposition is to achieve the deposition uniformity needed over large diameter substrates while still obtaining commercially viable deposition rates. These features are inherent benefits of the Lambda reactor configuration."

Lambda's DiamoTek microwave plasma products are based on technology developed at Michigan State University (MSU). This technology was developed based on over 20 years of research and application work at MSU and its previous industrial partners. Lambda Technologies manufactures and distributes the technology under exclusive worldwide license agreements for both hardware and process developed at MSU.

The existing DiamoTek products are available with either 2.45GHz or 915MHz microwave supplies, at power levels from 2 kilowatts up to 30 kilowatts. Reactor geometries and power levels range from applying uniform deposition over 2 inches up to 8 inch substrates. Process applications include deposition of polycrystalline diamond films, nano and ultra-nano diamond films, and growth of single crystal diamonds. Resulting diamond product can be doped or undoped, based on the final application.

#### **About Lambda Technologies, Inc**

Founded in 1994, Lambda Technologies, Inc. is dedicated to providing the most advanced microwave techniques available for the processing of advanced materials. The company provides both research and production equipment together with process development support, for customers worldwide. Lambda's proprietary Variable Frequency Microwave technology offers advantages of faster cure and selective heating of adhesives, encapsulants and polymer films used throughout the semiconductor industry. The company's plasma products offer the only internally tunable resonant cavity for etching and deposition of diamond films. For more information, visit [www.microcure.com](http://www.microcure.com) or contact (919) 462-1919.

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