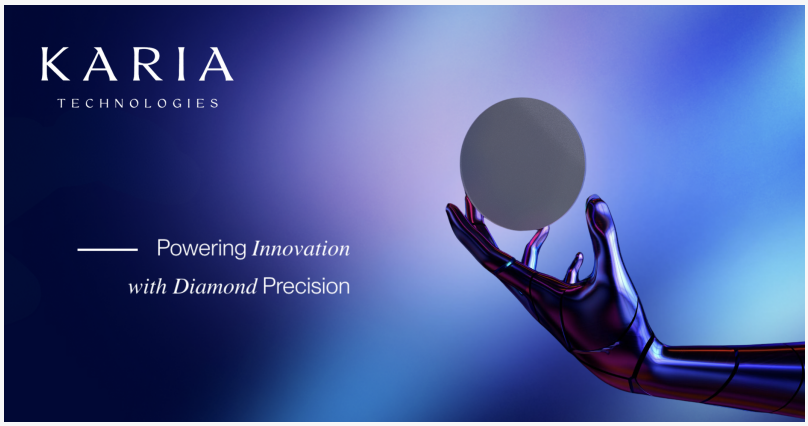
Karia Technologies Introduces Its Lab Grown Diamond Solutions Powering U.S. Technology Innovation

Karia Technologies--Lab Grown Diamonds, ten times the thermal conductivity, one□tenth the cost for AI, electronic, industrial, biomedical & defense industries



Powering Innovation with Diamond Precision

BOSTON , MA, UNITED STATES, July 29, 2025 /EINPresswire.com/ -- Karia Technologies today announced that it is empowering organizations to reach new levels of innovation with lab grown diamond technologies, which are available in the U.S. for the first time at an accessible price — one tenth the price of the competition. Sourced from India, Karia's products offer up to ten times the thermal conductivity of silicon, arming companies with the technology they need to overcome development limitations, beat local and global competitors in the race to innovate, and drive the next technological revolution.

> The power of lab grown diamonds was unavailable to most U.S. businesses because they were cost□prohibitive. It's exciting to make this technology readily available and open up technical possibilities."
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> *Kyla Ruane, Co□Founder of Karia Technologies.*

Karia Technologies' solutions include diamond wafers, optical windows and diamond powders. The natural benefits of diamonds provide limitless opportunities across electronic devices, AI, quantum computing, biomedical devices, aerospace/defense, automotive and industrial applications. Lab grown diamonds offer:

Ten times the thermal conductivity of silicon
Extremely high electron mobility
Outstanding physical properties, such as high□pressure resistance
High□frequency performance
High□temperature resistance

Karia's proven lab grown diamond solutions developed in India do not face the harsh trade

barriers experienced with Chinese suppliers, who have banned the export of key materials as part of a broader strategy to protect China's technological advancements. Karia has a U.S. presence and no minimum order quantities (MOQs) to meet its clients' needs. The company is setting a new standard in thermal management, enabling faster, more efficient and more reliable electronics. Furthermore, as AI technology progresses, computing power becomes more demanding and the need for advanced thermal management solutions becomes critical. Karia can support companies in their quest to usher in a new chapter of technological advancement that only diamonds and their natural properties can support.

"Until now, the power of lab grown diamonds was unavailable to most U.S. businesses because they were cost-prohibitive," said Kyla Ruane, co-founder of Karia Technologies. "It's exciting to make this technology readily available at a fraction of the cost of competitors and to partner with engineers, developers and business decision makers to open up a new world of technical possibilities. We're committed to driving U.S. innovation and showcasing the possibilities of diamonds across markets."

Karia Technologies will be present at the Advanced Manufacturing Expo (AME) 2025 in Grand Rapids, Michigan, on August 6 and 7. Industrial companies will benefit from:

Thermal management: Diamond's exceptional thermal conductivity makes it ideal for heat-spreaders and substrates used in high-power lasers, RF/5G equipment, industrial computers and power supplies.

Optical windows: Single-crystal diamond windows are used in high-power laser and vacuum environments where traditional materials fall short.

Diamond powders/coatings: Diamond powders enhance the cutting efficiency and durability of blades, drills and milling tools. Many exhibitors manufacture or distribute these cutting tools and could therefore benefit from Karia's diamond powders.

About Karia Technologies
Karia Technologies is empowering organizations to reach new levels of innovation with lab grown diamond (LGD) solutions, allowing businesses to overcome development limitations and disrupt technology as we know it today. While previously too expensive to use at scale, Karia sources its diamonds from India and now makes proven, high-quality LGDs available at one tenth the cost of the competition. The natural benefits of diamonds provide limitless opportunities and deliver up to ten times the thermal conductivity of traditional materials. Diamonds can advance electronic devices, AI, quantum computing, biomedical devices, aerospace, defense, automotive, industrial applications and more. Learn more about the power of diamonds with Karia Technologies at www.kariadiamonds.com.

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