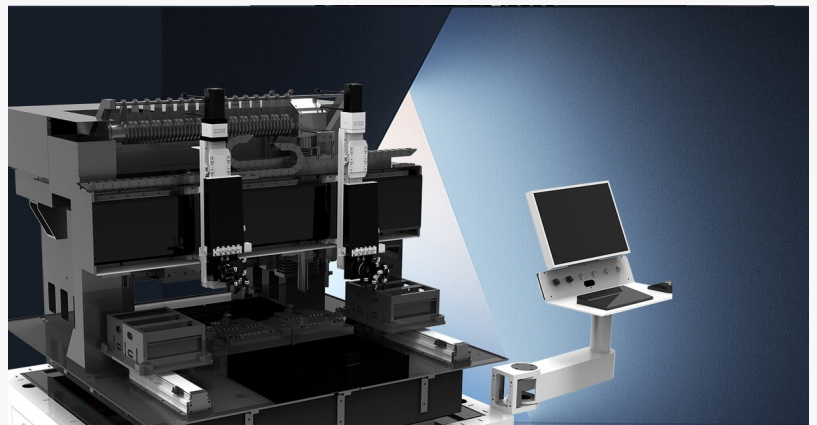


GWEIKE Launches Integrated Ultrafast Laser Cutting Solutions for Precision Glass and Advanced Manufacturing

GWEIKE expands its ultrafast laser platform to deliver high-precision glass cutting, reduced microcracks, and stable industrial production solutions.

LOS ANGELES, CA, UNITED STATES, February 28, 2026 /EINPresswire.com/ -- GWEIKE, a global manufacturer of industrial laser systems, today announced the expansion of its [ultrafast laser cutting portfolio](#), delivering integrated solutions for precision glass processing, brittle material machining, and high-end electronics manufacturing.



GWEIKE ultrafast laser glass cutting machine designed for high-precision modification and controlled splitting of thick and brittle materials.

As demand grows for thinner glass, higher edge strength, and lower microcrack rates in advanced applications such as foldable displays, photovoltaic panels, and smart device cover glass, manufacturers are seeking non-thermal processing technologies that minimize material stress while improving yield consistency.

“

Ultrafast laser modification enables manufacturers to significantly improve edge strength and reduce microcrack defects in high-precision glass processing.”

Allison

GWEIKE’s comprehensive [Ultrafast Laser Cutting Machine platform](#) provides a complete process solution from laser modification to controlled splitting, enabling manufacturers to achieve clean edges, reduced chipping, and stable mass production performance.

Addressing the Challenges of Modern Glass Processing

Traditional mechanical cutting methods often introduce edge defects, subsurface microcracks, and inconsistent break strength — particularly when processing thick or chemically strengthened

glass. These issues directly affect downstream reliability and product lifespan.

Ultrafast laser processing uses picosecond or femtosecond pulse durations to create controlled internal modification zones, significantly reducing heat-affected zones and mechanical stress. When combined with optimized splitting processes, manufacturers can achieve:

Higher edge strength

Lower microcrack density

Improved yield rates

Reduced post-processing costs

Better dimensional accuracy

Detailed technical overview of ultrafast glass cutting principles and process comparisons

Integrated Platform for Industrial Production

The GWEIKE ultrafast platform supports multiple industrial configurations, including:

Thick glass cutting and splitting systems

Dual-platform front-cut back-split solutions

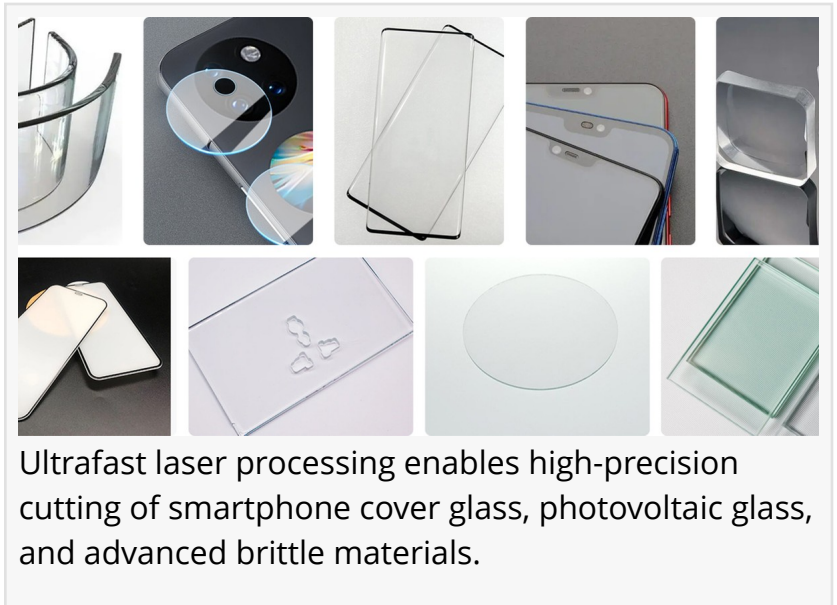
Precision drilling equipment for micro-hole applications

Photovoltaic glass punching systems

Roll-to-sheet laser cutting for film materials

These solutions are engineered for high-throughput production environments, enabling continuous operation with stable process windows and repeatable quality control.

“Our objective is not only to provide machines, but to deliver a complete manufacturing-grade



solution,” said a spokesperson for GWEIKE. “From feasibility testing to parameter optimization and automation integration, we work closely with global manufacturers to ensure consistent production results.”

Supporting Global Manufacturing Upgrades

With rising standards in consumer electronics, renewable energy, and precision optics, manufacturers are transitioning from conventional cutting methods to ultrafast laser modification technology. GWEIKE's solution portfolio is designed to support this transition with scalable configurations tailored to various material types and thickness ranges.

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