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Advanced Laser Processing Solutions for Diamond, Glass, and Ceramics — Precision, Speed, and Yield

AdValue Photonics offers a comprehensive portfolio of [laser processing machines](#) designed for high-precision, high-throughput fabrication of hard and brittle materials, including **diamond, glass, sapphire, alumina, aluminum nitride, and quartz**. Built on our in-house fiber laser technology and precision motion platforms, these systems deliver exceptional accuracy, repeatability, and production efficiency—while eliminating the limitations of traditional mechanical and water-based processes.

Across diamond slicing, glass cutting and drilling, and ceramic cutting, our laser processing machines share a common design philosophy:

- ◆ **Non-contact, laser-based processing** for minimal mechanical stress and superior edge quality
- ◆ **High precision and repeatability**, enabling complex geometries, fine features, and tight tolerances
- ◆ **High yield and consistency**, supporting stable, production-ready operation
- ◆ **Fast processing speeds** to maximize throughput and productivity
- ◆ **Environmentally friendly manufacturing**, with no contaminated water waste or consumables

Our laser processing machines are fully customizable to meet specific material, thickness, feature, and throughput requirements. For application discussions, sample processing, or system configuration inquiries, please contact us at contact@advaluephotonics.com.

AdValue Photonics:

As a leading manufacturer of innovative fiber lasers and amplifiers, and leveraging our unique capabilities in laser glasses and fibers, we deliver groundbreaking products to our customers.

- ◆ [Nanosecond](#) Fiber Lasers at wavelengths 0.5 μ m (Green), 1 μ m, 1.5 μ m, 2 μ m
- ◆ [Picosecond](#) Fiber Lasers at 0.5 μ m (Green), 1 μ m
- ◆ [Single-Frequency](#) Lasers (CW and pulsed): 1 μ m, 1.5 μ m, 2 μ m
- ◆ [Amplifiers](#): ns/ps/fs pulsed, single-frequency, CW, broadband
- ◆ Fiber Laser [Components](#): couplers, isolators, circulators
- ◆ [Laser Machines](#) for material processing: glass, ceramic and diamond

*Manufactured in the Optics Valley,
Tucson, Arizona, USA*