

Fiber Processing Services

Improve performance, increase yield, reduce manufacturing costs



Fiber processing services based in the UK and USA to meet your production needs – from proof of concept, through qualification to volume production.

OpTek Systems your quality manufacturing partner in optical fiber packaging

OpTek provides a comprehensive range of optical fiber processing services from our facilities in both the US and UK. Utilizing OpTek-proprietary LaserCleave processes, we can provide all your production needs from demonstration and qualification batches through to volume production. Capabilities include laser cleaving (flat and angled), laser lensing, laser stripping, ribbon cleaving, fiber-optic connector cleaving, array assembly, end-capping, hermetic ferrule attachment and packaging services.

Laser Processing for precision production processing

- **Stripping** primary acrylate and polyimide coatings
- **Cleaving** flat and angled to >45 degrees on fibers, ribbons and arrays
- **Lensing** – conical, wedge and biconic on SM, MM and PM fibers
- **Laser Fusing** of fiber end-caps and beam expanders and collimators
- **Fiber Stubs** optical grade cleave accurately referenced to ferrule end

The advantages of laser processing fibers include:

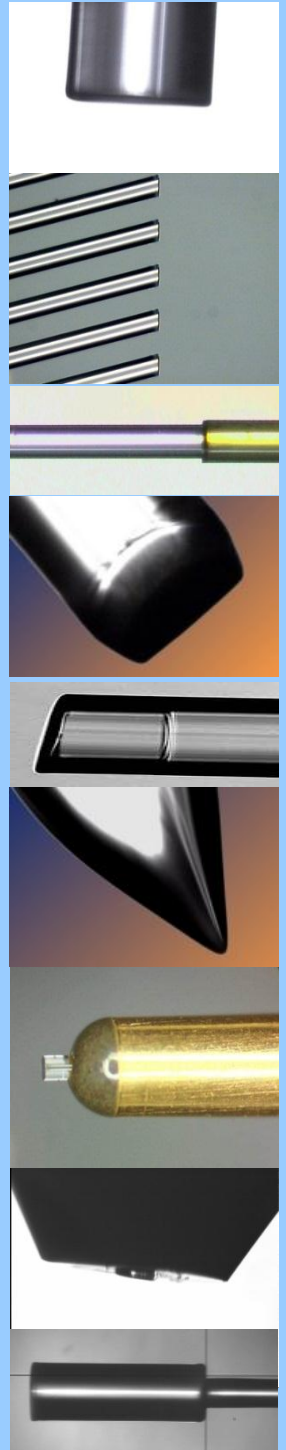
- **Rapid** non-contact process
- **Accurate and repeatable** feature positioning
- **Precise control** over fiber end geometry
- **Flexibility** - broad range of end features and geometries
- **Optical-grade properties** - chipping, cracking or scratching
- **Maximized performance** through in-Situ process monitoring
- **Scalable for volume** - suitable for high levels of automation

Added Value

The LaserCleave range of machines from OpTek Systems is based on the following standard platforms:

- **Sourcing of components** through our extensive supply chain network
- **Metalization** for hermetic fiber attach
- **Connectorization** close cleaving of fiber in ferrules & connectors
- **AR Coating** if the fiber end face
- **Hermetic Ferrule Attachment** – glass and metallic solders
- **Full Turn-Key Fiber Tail Assemblies**
- **QA** – inspection and monitoring of geometric and optical performance.

Contact OpTek Systems today for more details on our fiber processing services or to discuss your specific production needs.



Solutions for precision manufacturing - To learn more contact:

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