

LaserCleave-Ferrule

Fast, reliable and reproducible processing of single and multi-fiber connectors, improving your product performance while reducing manufacturing costs.

OpTek's ferrule cleaving machine, precision cuts fiber and epoxy in a single operation, resulting in a fast, reproducible method for ferrule and connector assemblies. LaserCleave can reliably cut to 40µm of the ferrule face, reducing the number of polishing steps required and so improving productivity while reducing the cost of consumable finishing materials.

System Performance

Unmatched accuracy, speed and flexibility, including:

- Process speed: Typically <1s per fiber
- Small protrusion: Typically <40µm, giving rapid polish
- Repeatable protrusion: Typically ±5µm, for reduced polish cycles
- Polish friendly shape: Rounded end, no sharp corner or edges
- Yield: >99.9%
- Enhanced features: Smooth finish, non-contact process
- Reliable: No danger of cleaving the fiber back inside the ferrule or connector
- Flexibility: Interchangeable ferrule port for different ferrule and connector types
- Flexibility: No need to polish if cleaving free from epoxy

System Requirements

Fully integrated, turnkey system.

- Power: Single phase, 16A
- Water: None
- Gas: None
- Vision: Integrated high-magnification vision system
- Shards: Integrated collection of >1M fiber shards
- Size: 1430x830x1180mm
- Weight: 350kg
- Communications: PC remote control via internet

System Options

System options include:

- Optical quality cleave and fiber stub processing
- On-line cleave inspection & data-logging
- Single fiber
- Multi-fiber and ribbon connectors

System configuration to be specified at time of order

