

How to maintain an optical fiber fusion splicer



Article Overview

Regular cleaning, electrode inspection, and careful handling are key to keeping a fusion splicer in optimal condition.

Daily Maintenance

- **Clean the V-Grooves:** The V-grooves hold fibers in precise alignment. Dust or fiber shards can misalign fibers and cause poor splices. Use a dedicated cleaning tool or swab to gently clean the grooves; avoid compressed air, which can push debris deeper into the machine .
- **Wipe the Exterior and Fiber Holders:** Use a soft cloth with a small amount of isopropyl alcohol to clean the casing, fiber holders, and protective windows. This prevents grime from entering sensitive areas .
- **Inspect Electrodes:** Electrodes generate the fusion arc and wear over time. Check for blackening or residue and clean with a lint-free cloth or cotton swab dipped in alcohol. Replace electrodes according to the manufacturer's recommendations or if splicing quality declines .
- **Clean the Cleaver:** Ensure the fiber cleaver is free of debris. Check all pads and the central plunger for smooth operation. Empty the chip bin daily to safely dispose of glass shards .
- **Check the Stripper:** Remove any fiber debris from the stripper to prevent contamination in the fusion chamber or sleeve heater oven .

Weekly or Periodic Maintenance

- **Lens Cleaning:** Clean the splicer's camera lenses inside the fusion chamber to mai...

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Fiber optical splicing machine is the act to joint two fibers together by using heat. Generally, there are two types of

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