

Fiber optic patch cord ferrule de-adhesive equipment



Overview

The Mechanical Connector Cleaver is a state-of-the-art tool engineered to cleave fibers in MT ferrules after the epoxy curing step.

Key Takeaways

Ferrule de-adhesive equipment is specialized machinery used to remove epoxy or adhesive from fiber optic ferrules, often using heat, ultrasonic cleaning, or chemical softening.

In fiber optic patch cord production, ferrules are typically bonded with epoxy to secure the fiber. When a ferrule needs to be reused, repaired, or polished, the adhesive must be removed carefully without damaging the ferrule or fiber. De-adhesive equipment is designed to safely soften, cure, or remove epoxy from ferrules, preparing them for re-polishing or reassembly.

Common Types of Equipment

- Fiber Optic Curing Ovens
- High-temperature ovens, such as the OFO-4800-H-MT, are used to cure or soften epoxy on ferrules, including MT/MPO/MTP types and SC/FC/ST/LC connectors .
- These ovens provide constant temperature control and can handle multiple ferrules simultaneously (up to 36 ceramic ferrules), allowing epoxy to be softened for removal or rework .

- Timing units and alarms ensure precise processing, preventing overheating or damage.
- Ultrasonic Cleaning Machines
 - Ultrasonic cleaners can remove residual adhesive from ferrules after initial softening. They use high-frequency vibrations in a cleaning solution to dislodge epoxy particles without mechanical abrasion .
 - These machines are often integrated into patch cord production lines for connector maintenance and repair.
- Manual or Semi-Automatic De-Adhesive Tools
 - For small-scale operations, ferrules can be treated with chemical solvents or heated in small curing ovens to soften epoxy, followed by careful mechanical removal using precision tools.
 - Polishing fixtures and holders are used afterward to restore the ferrule end-face to optical specifications .

Integration in Production Lines

De-adhesive processes are typically part of a fiber patch cord repair or rework workflow, which may include:

- Cable stripping and fiber preparation
- Ferrule epoxy softening or removal
- Polishing using central or four-corner press machines
- Testing insertion loss and return loss
- Reassembly and curing of new epoxy if needed

Key Considerations

- Temperature control is critical to avoid ferrule or fiber damage.
- Compatibility with ferrule types (SC, LC, MT, MPO) ensures safe and efficient epoxy removal.
- Integration with polishing and inspection equipment allows seamless repair and reuse of ferrules.
- Safety features such as protective covers and alarms are essential when handling high-temperature ovens . In summary, ferrule de-adhesive equipment combines heat, ultrasonic cleaning, and precision handling to safely remove epoxy from fiber optic ferrules, enabling repair, re-polishing, or reuse in patch cord production. Equipment selection depends on production scale, ferrule type, and desired throughput.

Article Content

MT ferrule epoxy Cleaver for MPO Patch Cable Production Line

The Mechanical Connector Cleaver is a state-of-the-art tool engineered to cleave fibers in MT ferrules after the epoxy curing step. It

Seikoh Giken FerrulePro™ Single Fiber Optic

This cleaner effectively removes dust, epoxy, and contaminants from the ferrule

Automatic Fiber Optic Connector Ferrule Glue Injection

Automatic Fiber Optic Connector Ferrule Glue Injection Machine or Automatic dispensing use to fill the

EPO-TEK Epoxy 353ND patch cord production line

EPO-TEK Epoxy 353ND has two parts of Part A and Part B, which will be mixed with 10:1 ratio.

FiberOptic Supply

We offer fiber optic materials from Test Equipment, Bulk Cable and Fusion Splicers to Tools, Patch Cables and Consumables.

TX-120 Fiber Ferrule Epoxy Wipe-out Machine

TX-120 Fiber Ferrule Epoxy Wipe-out Machine from SunmaFiber, your best supplier in fiber optic network,

Seikoh Giken FerrulePro SPR-3 Multi-Fiber Optic

This benchtop cleaner effectively removes dust, epoxy, and other contaminants from ferrule end faces,

Automatic Epoxy Injection Machine For Fiber Optic

Quality Fiber Patch Cord Manufacturing Machine from factory, Automatic Epoxy Injection Machine For

Cleaning Kits | Fiber Instrument Sales

Kits include cleaning instruments for both 2.5mm and 1.25mm ferrules on patch cables and through

Fiber Optic Patch Cables

The patch cords provide flexible interconnection to active equipment, passive optical devices and cross

MT ferrule epoxy Cleaver for MPO Patch Cable

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Fiber Accessories

Fiber Splicing & Processing Fiber taper machine IdealPhotonics'' fiber optic tapering machine is a specialized processing device that

Adhesives for Fiber Optic Applications | MasterBond

Applications of Master Bond''s Fiber Optics Adhesive Systems Master Bond fiber optics compounds are

Seikoh Giken FerrulePro™ Single Fiber Optic

Seikoh Giken FerrulePro, Automated Patchcord Cleaner for use with Single Fiber Connector Ferrules. Kit

Fiber Optic Cleaning Products Guide

Products used in this video: FIS Patch Cords/Jumpers FIS Bulkhead Ferrule Cleaner for 2.5mm Connectors - F16715 FIS Fiber Optic

How to Install Fiber Optic Connectors? | by Jo Wang | Medium

As we know, fiber optic patch cords are capped at both ends with fiber optic connectors to allow them to be rapidly and

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The FOA Reference For Fiber Optics

Topic: Cleaning Fiber Optic Connections Table of Contents: The FOA Reference Guide To Fiber Optics

Endface Inspection for Fiber Connectors and Patch Cords

Endface inspection focuses on the visible quality of the polished fiber surface and

Epoxy Injection into Fiber Optic Connectors

Thus, a fiber optic epoxy is a two-part structural adhesive that bonds the fiber glass silica to the zirconia ceramic ferrule. It has low

Fiber Optic Cleaning Best Practices

Cleaning 1.25mm and 2.5mm Fiber Optic Backplane Connections using Precision Swabs The need to clean fiber optic connectors is

Fiber Optic Cleaning Guide | FS

The fiber optic cassette cleaner wipes away contaminants from the optical connector end face with ease. The cleaning tape does not

Video: Seikoh Giken SPR-2 FerrulePro Automated Patchcord Cleaner

FOCTV provides the most innovative, high quality solutions with the best technical information within the photonics

How Fiber Optic Patch Cords Are Made | Complete Manufacturing

Producing a high-performance fiber optic patch cord requires far more than assembling a connector onto a cable.

Choosing Epoxy Curing Equipment for Optimal Fiber Performance

Fiber Optic Center, Inc., (FOC), is an international leader in distributing fiber optic components, equipment, materials,

Automatic Fiber Optic Connector Ferrule Glue Injection Machine

What Is Automatic dispensing or Automatic Fiber Optic Connector Ferrule Glue Injection Machine? Price For Sale and

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Fiber Optic Products & Support Southern Elements is your expert partner for everything fiber. We are a trusted supplier of hardware,

MT Connector Assembly with MT Ferrule

Explore MT connector assembly solutions with MT Ferrule-specific fixturing, tools, and materials for high-density network cabling

MPO-PC-18DM Patch Cord Lapping Puck Optical Cable Connector

MPO-PC-18DM Patch Cord Lapping Puck Optical Cable Connector Grinding Jig Ferrule Type Central Pressure Polishing Fixture

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Fiber Optic Patch Cables

The patch cords provide flexible interconnection to active equipment, passive optical devices and cross-connect. We offers diverse

The FOA Reference For Fiber Optics

The surface tension of the adhesive will “float” the fiber into the center of the hole in the ferrule, improving fiber alignment in the

All Kinds of Fiber Optic Patch Cords – SC, LC, FC, ST Explained

Learn about SC, LC, FC, and ST fiber optic patch cords, their uses in FTTH, telecom, and data centers, and how to

Fiber Optic Cable Glue: A Manufacturer''s Guide to Incure Adhesives

Partner with Incure to ensure your fiber optic products perform flawlessly, now and into the future. Are you ready to

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