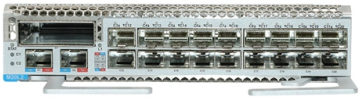
What are some manufacturers of optical fiber fusion splicing equipment



Overview

Top-rated models include the Fujikura 90S+, INNO View 8+, and Sumitomo Type-72C+, each suited to different use cases and environments.

Key Takeaways

Leading manufacturers of optical fiber fusion splicing equipment include Corning, Fujikura, Sumitomo, Fitel, Thorlabs, 3M, AFL, and DIAMOND.

Key Manufacturers and Their Offerings

Corning: Offers the OptiSplice One Handheld Fusion Splicer, designed for enterprise, telco, CATV, and FTTx networks, featuring dual cameras for splice loss estimation and intuitive operation. Fujikura: Known for high-performance fusion splicers like the Fujikura 90S, widely used in telecommunications and professional fiber optic installations. Sumitomo Electric: Provides core alignment fusion splicers and related splicing tools for both single-mode and multi-mode fibers.

Fitel: Produces handheld and core-alignment fusion splicers, including the S179 model, suitable for field and laboratory applications. Thorlabs (Vytran®): Offers fusion splicing systems, fiber processing tools, and end-face inspection equipment, including GPX Series Glass Processors for custom fiber terminations. 3M and AFL: Supply a range of fiber optic splicing equipment, including cleavers, protection sleeves, and mechanical splicing tools.

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DIAMON

D, NanJing-SKYCOM, Hopu Optical: Provide specialized fusion splicers for FTTH, backbone, and metro area networks, emphasizing portability and fast splicing times.

Types of Equipment

Manufacturers typically offer: Fusion Splicers: Core-alignment or manual splicers for single-mode, multi-mode, and specialty fibers. Fiber Cleavers: Precision tools for preparing fiber ends before splicing. Protection Sleeves and Heat Shrink Units: For securing and protecting spliced fibers.

Mechanical Splicing Tools: For temporary or field splicing without fusion. Inspection and Testing Equipment: End-face analyzers, visual inspection systems, and interferometers for quality control.

Applications

These splicing systems are used in: Telecommunications networks (FTTx, backbone, metro networks)Data centers and enterprise networksIndustrial and medical fiber optic systemsResearch and development laboratories By selecting equipment from these manufacturers, users can ensure high-quality, reliable splices with consistent optical performance and mechanical strength.

Article Content

Top 5 Fusion Splicers for 2025: Precision Tools for Fiber Optic Experts

Top-rated models include the Fujikura 90S+, INNO View 8+, and Sumitomo Type-72C+, each suited to different use cases and environments. Proper training, maintenance, and calibration

Fusion Splicers Manufacturers and Suppliers in the USA and Canada

Manufacturers'' representatives of electronic test equipment, tools, controls, fiber optic cleaning supplies, battery testers, optical fault locators, portable and fixed gas detectors,

Fiber Fusion Splicers & Processing Equipment

The GPX Series Glass Processors can splice fibers or end caps and shape fibers into tapers, ball lenses, couplers/combiners, or other kinds of custom terminations.

Fiber Optic Splicing Equipment

Fiber Instrument Sales has a wide variety of fiber optic splicing equipment such as fusion splicers from AFL, Sumitomo, FITEL, and FIS. FIS also splicing tools and accessories such as cleavers, thermal

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Top 100 Fusion Splicer Manufacturers in 2026 | ensun

The Fiber Optic Limited (Thefo) is a specialized supplier of fusion splicing equipment, featuring a range of products including the JILONG 280E Fusion Splicer and the OrienTek T49 Optical Fusion

The FOA Reference For Fiber Optics

Follow manufacturer''s requirements for servicing. Virtual Hands On, Fusion Splicing Virtual Hands On, Ribbon Splicing Detailed Instructions For Fusion Splicing With

History and Vision of Optical Fiber Fusion Splicing Technology

Sumitomo Electric Industries, Ltd. released the TYPE-3 fixed V-groove optical fiber fusion splicer for multi-mode fibers in 1980. Over the years, optical fiber fusion splicing technology has been making

What is Fiber Optic Cable Splicing?

Fusion splicing is used by many telecommunications and cable television providers for long-haul single-mode networks, although mechanical splicing is used for shorter local cable lengths.

What is Fiber Pigtail? A Complete Guide for Beginners

Fiber optic pigtails are mainly for fast fusion splicing applications, while patch cords are for connectivity between optical transceivers, patch panels,

10 Best Fiber Optic Fusion Splicers (June 2026) Expert Reviews

Fiber optic networks are expanding faster than ever, and whether you are running FTTH drops, maintaining backbone connections, or building out data center infrastructure, you need a

IDC Fiber Optic Connectors – Fast, Tool-less Fiber Termination Solution

IDC fiber optic connectors (IDC stands for Insulation Displacement Connector) are advanced fiber termination solutions that allow you to quickly connect optical fibers without the need for epoxy,

Fiber Optic Splicing: Examining the Factors that Affect

Learn the the intrinsic and extrinsic factors that can impact fiber optic splice performance and how you can create the best fiber optic network.

The Complete Step-by-Step Guide to Fiber Optic Splicing

In this guide, we cover the basics of fiber optic splicing, how to perform splicing using two different methods, and finally some best practices to perform good fiber splicing.

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How to Splice Fiber in a Terminal Box: Complete Guide

Even when premium optical cables and high-performance equipment are used, poor fiber splicing or improper fiber management inside a fiber optic terminal box can lead to increased

Fiber Optic Pigtail: The Complete Guide to Types,

Confused about fiber optic pigtails—which connector type, which polish, fusion or mechanical splice? Our guide covers LC vs SC, APC vs UPC,

The FOA Reference For Fiber Optics

Splice-on connectors require a fusion splicing machine, more expensive than the kits for prepolished splice connectors, and some of these connectors only work with specific manufacturer''s splicing

Fiber Optic Cable Splicing Explained

Splicing in optical fiber is the joining two fiber optic cables together. There are 2 methods of cable splicing, mechanical or fusion.

Ai-8 Fiber Optic Splicing Machine Fiber Fusion Splicer Ribbon

Discover the essential techniques for splicing fiber optic cable, including fusion splicing and mechanical splicing. Learn about fiber optic tools, connectors, and best practices for ensuring

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