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Data Sheet

August 2, 2026

FUJIKURA

Fujikura FSM-20RS Arc Fusion Splicer

The Fujikura FSM-20RS is a compact and reliable arc fusion splicer designed for splicing single-mode and multimode optical fibers. It features automatic fiber alignment and splicing, a fast heating time, and a ruggedized design for field use. Ideal for telecommunications, data centers, and other fiber optic applications.



MODEL Fujikura FSM-20RS	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU FSM-20RS	LISTING https://aumictechlabs.com/products/fsm-20rs-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fujikura FSM-20RS is an arc fusion splicer designed for precise splicing of single-mode and multimode optical fibers in field environments. Equipped with Profile Alignment System (PAS) technology, it automatically aligns fiber cores or cladding and performs fusion splicing with integrated loss estimation. The splicer's microprocessor-driven architecture delivers consistent results across SM, MM, DSF, and graded-index fiber types, achieving splice losses as low as 0.02 dB on GI fibers and 0.03 dB on SMF. Technical Specifications Fiber Types: Single-mode (SMF), multimode (MM), dispersion-shifted (DSF), graded-index (GI) Operating Wavelengths: 1310 nm (SMF), 1550 nm (DSF) Alignment Method: Profile Alignment System (PAS) - core alignment for SM, cladding alignment for MM Average Splice Loss: 0.03 dB (SMF), 0.05 dB (DSF), 0.02 dB (GI) Splice Data Memory: Stores up to 100 splice records Display: 3" or 4" LCD monitor with direct sunlight viewability; automatic display orientation adjustment on select models Power Input: AC

100–240 V, 50/60 Hz (max. 3 A); DC 12 V (max. 10 A) or 10–12 V Environmental Compensation: Atmosphere, humidity, and temperature compensation functions Key Features Fully automated fiber alignment, fusion, and loss estimation via internal microprocessor High-intensity halogen inspection lamp for enhanced visibility during operation Built-in tube heater for splice protective sleeve installation Compact, ruggedized construction suitable for field deployment Ribbon fiber splicing capability - select models support up to 12-fiber ribbon splices Fast heating time for improved workflow efficiency Typical Applications Telecom and data center fiber network installation and maintenance Field splicing of long-haul and metro optical cable systems Ribbon fiber backbone deployment Compatibility & Integration The FSM-20RS accommodates standard single-mode, multimode, and specialty fiber types. Specific variants such as the FSM-20RSII12 extend capability to multi-fiber ribbon splicing, enabling higher-density network deployments. Dual AC/DC power inputs provide flexibility across field locations with variable power availability.

Features & description

From manufacturer datasheet

Features

- Profile Alignment System (PAS) • SM core alignment; MM cladding alignment • Automatic alignment, fusion, and loss estimation • Environmental compensation (atmosphere, humidity, temperature) • Built-in tube heater • Compact LCD monitor (about 3-4 in class) • High-intensity halogen inspection lamp (family) • AC and DC power options • Ribbon capability on RS-class variants (count is submodel dependent)

FSM20RS Characteristics / Specifications

PARAMETER	VALUE
Model	FSM-20RS
Manufacturer	Fujikura
Instrument Type	PAS arc fusion splicer (single / ribbon class)
Fiber Types	SM, MM, DSF, graded-index (typical FSM-20RS listings)
Alignment	PAS – SM core; MM cladding
Average Splice Loss (dealer/catalog class examples)	about 0.03 dB SMF; about 0.05 dB DSF; about 0.02 dB GI – confirm against unit manual
Splice Memory	about 100 records class
Display	LCD monitor with outdoor visibility
Power	AC 100-240 V 50/60 Hz; DC about 10-12 V / 12 V class
Related	FSM-20CS (single PAS sibling); FSM-20RSII / RSII12 (later ribbon variants) Standard Operating Conditions Clean V-grooves and optics. Use matching ribbon holders when splicing ribbon. Observe electrode life. Select correct fiber program for SM/MM/DSF.

FSM20RS Specifications

PARAMETER	VALUE
Key Features	- Profile Alignment System (PAS)
Technical Specifications	Model: FSM-20RS
Operational Notes	Do not assume 12-fiber capability on a base FSM-20RS without verifying the RSII12 submodel. Inventory holders and cleaver separately.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Model	FSM-20RS
Manufacturer	Fujikura
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Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

environmental compensation (atmosphere, humidity, temperature), a built-in tube heater, and a compact LCD monitor suitable for field use. Related variants include FSM-20RSII / FSM-20RSII12 class machines that extend ribbon count (dealer descriptions cite up to 8- or 12-fiber ribbon depending on submodel). Confirm faceplate FSM-20RS vs RSII before quoting ribbon fiber count.

Applications
Field and laboratory SM/MM/DSF splicing; ribbon backbone work on RS/RSII variants; telecom and data-center construction with PAS alignment on a compact legacy Fujikura chassis.

- Key Features**
- Profile Alignment System (PAS)
 - SM core alignment; MM cladding alignment
 - Automatic alignment, fusion, and loss estimation
 - Environmental compensation (atmosphere, humidity, temperature)
 - Built-in tube heater
 - Compact LCD monitor (about 3-4 in class)
 - High-intensity halogen inspection lamp (family)
 - AC and DC power options
 - Ribbon capability on RS-class variants (count is submodel dependent)

Technical Specifications

Technical Specifications

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Related	FSM-20CS (single PAS sibling); FSM-20RSII / RSII12 (later ribbon variants)

Standard Operating Conditions
Clean V-grooves and optics. Use matching ribbon holders when splicing ribbon. Observe electrode life. Select correct fiber program for SM/MM/DSF.

Operational Notes
Do not assume 12-fiber capability on base FSM-20RS without verifying the RSII12 submodel. Inventory holders and cleaver separately.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.