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**Data Sheet**

August 2, 2026

FUJIKURA

# Fujikura FSM-17R SM MM Fiber Optic Fusion Splicer

The Fujikura FSM-17R is a compact and reliable fusion splicer designed for splicing single-mode and multimode optical fibers. It features a user-friendly interface, automated splicing functions, and a rugged construction for field use. Ideal for telecommunications, data centers, and other fiber optic applications.



MODEL

**Fujikura FSM-17R**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**FSM-17R**

LISTING

<https://aumictechlabs.com/products/fsm-17r-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Fujikura FSM-17R is a ribbon fiber fusion splicer for single-mode and multimode optical fibers, supporting single, 2-fiber, and 4-fiber ribbon configurations. It delivers exceptional splice performance with average loss of 0.05 dB (SM) and 0.02 dB (MM), completes splicing cycles in 20 seconds, and achieves return loss exceeding 60 dB. The unit employs dual-directional cladding alignment with fixed V-grooves and an arc calibration-free system, eliminating setup complexity in field environments. Dual CMOS cameras and 89x magnification provide real-time fiber visualization on a 5.6-inch color LCD monitor. A built-in tube heater with 10 user modes performs protection sleeve fusion in 40 seconds. The FSM-17R stores the last 600 splice results, offers 40 programmable splicing modes, and operates across altitudes to 3,660 meters and wind speeds to 15 m/s. Battery operation delivers 70 cycles (BTR-06S) or 140 cycles (BTR-06L) per

charge. USB 1.1 interface enables PC data transfer and external monitoring via RCA video jack.

**Technical Specifications**

**Fiber Compatibility:** SM (ITU-T G.652), MM (ITU-T G.651), DS (ITU-T G.653), NZDS (ITU-T G.655)

**Splice Loss:** SM 0.05 dB, MM 0.02 dB, DS 0.08 dB, NZDS 0.08 dB (cut-back method per ITU-T/IEC)

**Splicing Time:** 20 seconds typical

**Return Loss:** >60 dB

**Fiber Configurations:** Single, 2-fiber, or 4-fiber ribbon

**Cleaved Fiber Length:** 10 mm

**Splicing Modes:** 40 user programmable; 60 total including factory presets

**Data Storage:** Last 600 splice results in internal memory

**Magnification:** 89x via dual CMOS cameras

**Display:** 5.6-inch color LCD; X/Y axes or simultaneous dual-axis viewing

**Tube Heater Modes:** 10 user selectable; 20 total with factory settings

**Tube Heating Time:** 40 seconds typical (FP-04T sleeve)

**Protection Sleeve Lengths:** 40 mm, 60 mm

**Mechanical Proof Test:** 2 N

**Key Features**

Arc calibration-free operation eliminates field recalibration

Automatic fiber loading system reduces operator handling

Temperature range: -10 to 50°C; humidity to 95% RH

Dimensions: 150W × 150D × 150H mm; weight 2.2 kg

Power: 100–240 V AC auto-select, or 10–15 V DC (ADC-11), or 13.2 V DC (BTR-06 battery)

USB 1.1 (type-B) and RCA video output for external monitoring

**Typical Applications**

Telecommunications infrastructure, data center deployments, fiber optic network upgrades, and field splicing operations requiring ribbon fiber terminations with minimal loss and rapid cycle times.

## Features & description

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From manufacturer datasheet

### Features

- Mass fiber splicer up to 4-fiber ribbon
- Also splices single fiber with appropriate holders
- Fixed V-groove cladding alignment
- Dual-directional operating system
- Arc calibration-free system
- Automatic fiber loading
- Large-capacity slot-in battery
- Simple operating steps
- Interchangeable fiber holders by fiber count/coating

# FSM17R Characteristics / Specifications

| PARAMETER                   | VALUE                                                                                                                                                                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                       | FSM-17R                                                                                                                                                                                                                                                                         |
| Manufacturer                | Fujikura / AFL                                                                                                                                                                                                                                                                  |
| Instrument Type             | Mass / ribbon fusion splicer (up to 4 fibers)                                                                                                                                                                                                                                   |
| Applicable Fibers           | SM (G.652), MM (G.651), DS (G.653), NZDS (G.655)                                                                                                                                                                                                                                |
| Fiber Count                 | Single, 2, 4 (with matching holders)                                                                                                                                                                                                                                            |
| Alignment                   | Fixed V-groove cladding alignment                                                                                                                                                                                                                                               |
| Typical Average Splice Loss | about 0.05 dB SM; 0.02 dB MM; 0.08 dB DS; 0.08 dB NZDS (FSM-17 family cut-back class)                                                                                                                                                                                           |
| Form Factor                 | about 150 × 150 × 150 mm class; about 2 kg class (family)                                                                                                                                                                                                                       |
| Related                     | FSM-17S (single-fiber sibling); FSM-18S successor for single cladding alignment Standard Operating Conditions Install the correct FH-series holders for ribbon count and coating. Clean V-grooves thoroughly for mass splicing. Use ribbon-capable cleaver (e.g. CT-30A class). |

# 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.

Specifications

Specifications

| PARAMETER                   | VALUE                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------------|
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| Related                     | FSM-17S (single-fiber sibling); FSM-18S successor for single cladding alignment       |

Standard Operating Conditions

Install the correct FH-series holders for ribbon count and coating. Clean V-grooves thoroughly for mass splicing. Use ribbon-capable cleaver (e.g. CT-30A class).

Operational Notes

User listing "SM MM Fiber Optic Fusion Splicer" is correct for fiber types; the 17R is primarily a mass/ribbon machine. Confirm holder set (2-fiber / 4-fiber / single) included with the unit.

### Available from Aumictech

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

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

#### Aumictech

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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.