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Data Sheet
August 2, 2026

FUJIKURA

Fujikura 90S+ Core Alignment Single Fusion Splicer

Interface: USB 2.0 Mini-B; USB-A LED; Bluetooth 4.1 LE Data: 100 splice modes; 30 heat modes; 20,000 results; 100 images Enable AFC when splicing poor-cleave fiber. Pair CT50 for blade management. Clean V-grooves. Charge battery within specified recharge temperature. Confirm 90S+ vs base 90S–AFC is the Plus differentiator for poor-cleave performance. Fujikura 90S+ Core Alignment Single Fusion Splicer The Fujikura 90S+ isasingle-fiber active core-alignment fusion splicer that adds Active Fusion Control (AFC) to the 90S platform for improved splice loss on poorly cleaved fibers, plus Active Blade Management with Bluetooth CT50 cleavers. It automates wind protector, sheath clamp, and heater functions for hands-off splicing after start. Typical SM FAST splice time is about 7-9 seconds; AUTO about 14-16 seconds. Typical average splice loss is 0.02 dB G.652/G.657, 0.01 dB G.651, and 0.04 dB G.653/G.654/G.655. Battery capacity is about 300 splice and heat cycles; electrode life about 5000 splices. Display is about 4.9-5 inch TFT touchscreen.

MODEL **Fujikura 90S+**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **90S+**	LISTING **https://aumictechlabs.com/products/90s-4/**

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The Fujikura 90S+ is a single-fiber fusion splicer engineered for active core alignment across diverse fiber types and cladding dimensions. It delivers consistent low-loss splices in

telecommunications, backbone networks, and production environments through automated image processing and field-proven reliability. The splicer accommodates standard 250 µm and 900 µm loose tube fibers with integrated sheath clamp switching, operates across a -10 to 50°C temperature range, and survives 6-direction drops. Technical Specifications Active core alignment technology ensures splice losses of 0.02 dB average for single-mode ITU-T G.652 and G.657 fibers, 0.01 dB for multi-mode, and 0.04 dB for dispersion-shifted types. Splice time varies by mode: SM FAST 8–10 seconds, SM AUTO 11–13 seconds, standard AUTO 14–16 seconds, and 60 mm modes between 9–15 seconds depending on heating profile. The splicer processes fibers with cladding diameters from 80 µm to 150 µm and coating diameters up to 3000 µm. Cleave length ranges from 5 to 16 mm for standard configurations, with mode-specific constraints for smaller cladding or larger coatings. Electrode life reaches approximately 5,000 splices per set. Key Features Rechargeable lithium-ion battery: 14.4 V / 6,380 mAh, supporting ~300 splice-and-heat cycles per charge Battery rated for ~500 recharge cycles; storage temperature -20 to 30 °C AC adapter: 100–240 V, 50/60 Hz input, max 1.5 A Operating humidity: 0–95% RH non-condensing Maximum operating altitude: 5,000 m Compatibility & Integration Supports single-mode, multi-mode, dispersion-shifted, non-zero dispersion-shifted, bend-insensitive, LEAF®, and loose buffer fibers. Universal sheath clamps accommodate both 250 µm standard fiber and 900 µm loose tube configurations with integrated engagement/retraction switching.

Features & description

From manufacturer datasheet

Features

• Active core alignment; Active Fusion Control (AFC) • Active Blade Management (Bluetooth CT50) • Automated wind protector, sheath clamp, heater • Typical SM FAST 7-9 s; slim 60 mm heat about 9-10 s • Typical loss 0.02 / 0.01 / 0.04 / 0.04 / 0.02 dB (G.652/651/653/655/657) • About 300 splice/heat cycles; about 5000 electrode life • Touchscreen; universal sheath clamps for loose/tight buffer • About 20,000 splice result storage • Related predecessor: 90S (without AFC)

90S Characteristics / Specifications

PARAMETER	VALUE
Model	90S+
Manufacturer	Fujikura / AFL
Instrument Type	Active core-alignment fusion splicer
Applicable Fibers	SM and MM optical fiber
Fiber Count	Single
Cladding Diameter	80-150 um
Coating Diameter	max 3000 um (sheath clamp)
Cleave Length	5-16 mm
Typical Average Splice Loss	0.02 dB G.652; 0.01 dB G.651; 0.04 dB G.653; 0.04 dB G.654; 0.04 dB G.655; 0.02 dB G.657
Splicing Time	SM FAST avg 7-9 s; AUTO avg 14-16 s
Heat Time	60 mm slim avg 9-10 s; 60 mm avg 13-15 s
Proof Test	about 2.0 N
Electrode Life	about 5000 splices
Dimensions	about 170 × 173 × 150 mm
Weight	about 2.8 kg with battery
Operating	-10 to 50 C; 0-95% RH non-condensing; max 5000 m
Power	AC 100-240 V; battery about DC 14.4 V / 6380 mAh; about 300 cycles (BTR-15 class)
Display	about 4.9-inch colour TFT touchscreen; magnification about 200-320x
Interface	USB 2.0 Mini-B; USB-A LED; Bluetooth 4.1 LE
Data	100 splice modes; 30 heat modes; 20,000 results; 100 images Standard Operating Conditions Enable AFC when splicing poor-cleave fiber. Pair CT50 for blade management. Clean V-grooves. Charge battery within specified recharge temperature.
Related predecessor	90S (without AFC)

90S Specifications

PARAMETER	VALUE
Key Features	- Active core alignment; Active Fusion Control (AFC)
Technical Specifications	Model: 90S+
Operational Notes	Confirm 90S+ vs base 90S—AFC is the Plus differentiator for poor-cleave performance.

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
Model	90S+
Manufacturer	Fujikura / AFL
Instrument Type	Active core-alignment fusion splicer
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Fiber Count	Single
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Heat Time	60 mm slim avg 9-10 s; 60 mm avg 13-15 s
Proof Test	about 2.0 N
Electrode Life	about 5000 splices
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Standard Operating Conditions
Enable AFC when splicing poor-cleave fiber. Pair CT50 for blade management. Clean V-grooves. Charge battery within specified recharge temperature.

Operational Notes
Confirm 90S+ vs base 90S–AFC is the Plus differentiator for poor-cleave performance.

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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