

Fujikura 100S Fusion Splicer

Built for the demands of modern fiber installation, the Fujikura 100S Fusion Splicer combines intelligent automation with user-first design to streamline daily splicing tasks. From faster fiber preparation and alignment to smart adjustments that eliminate manual guesswork, the 100S helps technicians work more efficiently and with greater confidence.

Its customizable interface adapts to the user, not the other way around, while robust engineering ensures consistent, high-quality splices in any environment. Whether you're on a tight schedule or tackling complex jobs, the 100S is designed to save time, reduce errors, and support peak performance in the field.

Intuitive Operation: Large LCD screen makes splicing as easy as using a smartphone.

Dual Fiber Preparation: The Fujikura 100S splicer supports dual fiber loading, allowing technicians to place two prepared fibers into the machine simultaneously. This can reduce splicing time by up to 30%!

Automated fiber-length adjustments: Position fiber the right way, every time. The 100S ensures optimal fiber positioning automatically for a perfect splice every time. If there's too little fiber in front of the electrodes, the splicer automatically pulls more through; if there's too much, it retracts the excess. This intelligent adjustment system simplifies setup and improves splice consistency, reducing the need for manual corrections.

Splice Coach: For seasoned technicians, Splice Coach will help guide you to learn new techniques and applications. This helps improve your performance, productivity and reinforces splicing best practices.

Simple Fiber Guide: A built-in embedded fiber guide makes fiber loading faster and more accurate. Simply place the fiber into the guide, and the splicer takes care of the alignment, eliminating the risk of misaligned fibers and improving improves the speed and consistency of fiber loading, alignment, and splicing, especially for users in fast-paced environments.

Custom Splicer Setup: The 100S includes an intuitive user interface that guides users through a personalized splice settings menu. Within this menu, visual diagrams clearly show how each parameter affects specific components of the splicer. By combining graphics with detailed explanations, users gain a clearer understanding of the impact of their adjustments, enabling more precise and confident customization.

GPS Tracking: The 100S features Location-Based Locking, which allows technicians to define a GPS-based Secure Zone where the device remains fully operational. If moved outside this designated area, the splicer automatically locks to prevent unauthorized use or theft. It also records the location of each splice for comprehensive tracking.

USB Power and Recharging: The 100S supports fast USB-C recharging (4-6 hrs.) and external battery support when the job runs longer than expected.

Travels Easy: With the AFL Tote Solution installed, the 100S transit case securely integrates with Milwaukee's PACKOUT™ system, offering faster transport, stability, and time-savings for contractors and technicians.



Features

- Automated wind protector, tube heater and splice operation
- Dual fiber loading reduces preparation time
- Embedded fiber guide for accurate, error-free fiber loading
- Built-in Splice Coach virtual mentor to improve productivity
- Custom Splicer Setup menus with new UI and visual diagrams
- GPS splice stamp for location record keeping
- Location Based Locking prevent unauthorized use or theft
- USB-C charging and data port
- Multi-function transit case with integrated workstation

Applications

- Distribution fiber repair
- Long-haul network installation
- Field termination with splice-on connectors
- Access network installation
- Fanout kits, pigtails and splice cassettes
- OSP cable installation and repair
- Optical modules – splitters, couplers, MUXs, EDFAs and attenuators

Fujikura 100S Fusion Splicer

Ordering Information

Description	AFL No.
Fujikura 100S Fusion Splicer (machine only) Includes: ADC-22 AC Adapter, ACC-19 AC Cord, BTR-19 Battery, ELCT2-16C Spare Electrodes (pair), Sheath Clamps, SP-05 Fiber Holder Set Plates, USB-02 Cable, Alcohol Dispenser, Splicer Carrying Strap, Quick Reference Guide, TS-04A Tripod Screw, Work Tray J-Plate, SS05 single fiber stripper, CC-48 Transit Case with Carrying Strap and Two-Year Warranty	S018656
Fujikura 100S Standard Fusion Splicer Kit (with cleaver) Includes: CT60 Cleaver, ADC-22 AC Adapter, ACC-19 AC Cord, BTR-19 Battery, ELCT2-16C Spare Electrodes (pair), Sheath Clamps, SP-05 Fiber Holder Set Plates, USB-02 Cable, Alcohol Dispenser, Splicer Carrying Strap, Quick Reference Guide, TS-04A Tripod Screw, Work Tray J-Plate, SS05 single fiber stripper, CC-48 Transit Case with Carrying Strap and Two-Year Warranty	S018655
Fujikura 100S Fusion Splicer without Bluetooth (machine only) Includes: ADC-22 AC Adapter, BTR-19 Battery, ACC-19 AC Cord, ELCT2-16C Spare Electrodes (pair), Sheath Clamps, SP-05 Fiber Holder Set Plates, USB-02 Cable, Alcohol Dispenser, Splicer Carrying Strap, Quick Reference Guide, TS-03 Tripod Screw, Work Tray J-Plate, SS03 Single Fiber Stripper, CC39 Transit Case with Carrying Strap and Two-Year Warranty	S018657
Fujikura SpliceReady 100S Splicer Kit includes: Fujikura 100S Standard Kit (S0), FP-60 60 mm (single splice) protection sleeve (pack of 100), FCC2 fiber cleaning fluid (3 oz.), AFL WFW wipes mini tub (90 wipes), Kevlar scissors, FH-70-900 fiber holders (pair), FH-70-250 fiber holders, Mechanical Splice Fiber Holder (250 µm), Sharpie, Splicer V-groove cleaning kit, FH-FC-900 fiber holder (900 µm cable)	S018660
One-Year Extended Warranty	S012996
Two-Year Extended Warranty	S013000

Recommended Products for the 100S

Description	AFL No.
Cleavers	
CT-60 Cleaver	S018654
Fiber Holders (pair)	
FH-70-250 (250 µm coated fiber)	S017111
FH-70-900 (900 µm jacketed fiber)	S017113
FH-70-160 (160 µm coated fiber)	S017095
FH-70-200 (200 µm coated fiber)	S017711
FH-60-LT900 (Loose buffer 900 µm fiber)	S015181
FUSEConnect® Accessories	
FH-FC-20 (900 µm within 2.0 mm sheathing) (each)	S014696
FH-FC-30 (900 µm within 3.0 mm sheathing) (pair)	S014695
FH-FC-900 (900 µm cable) (each)	S014697
CLAMP-FC-2000 (pair)	S014705
CLAMP-FC-3000 (single holder)	S014704
Power Supply Options and Equipment	
ADC-22 AC Adapter	S018666
ACC-19 AC Power Cord	S018667
BTR-19 Battery	S018670
DCC-20 Power Cord	S017527
(connects AC Adapter to cigarette lighter socket)	
DCC-21 Power Cord	S017528
(connects AC Adapter to power source via alligator clips)	

Description	AFL No.
Miscellaneous	
SS05 Single fiber stripper (3 hole)	S018327
ELCT2-16C Electrodes	S018669
SP-05 Fiber Holder Set Plates	S018671
Portable Tripod Worktray Kit (see product profile for more detail)	S014773
ASW-02 Splicing Workstation (see product profile for more detail)	S010532
WT-11R Transit Case - Work Tray Right (100 Series)	S018674
WT-11L Transit Case - Work Tray Left (100 Series)	S018673
JP-11 Work Tray J-Plate	S018675
JP-12 J-Plate (Cooling tray attaches to splicer)	S018681
TS-04 Tripod Screw (100 Series)	S018677
ST-04 Fusion Splicer Carrying Case Strap	S018676
CLAMP-DC-12 (Drop cable clamp for work tray)	S017550
USB-02 Cable	S018668
CC-48 Transit Case	S018672
Splicer V-Groove Cleaning Kit	S014397
ST-04 Case and Work Tray Strap	S018676
AFL Tote Solution - Cleat Installation Service	S018623

Fujikura 100S Fusion Splicer

Specifications

Parameter		Value
Fiber Alignment Method		Active core alignment
Fiber Count Can Be Spliced		Single fiber
Applicable Fiber	Fiber Type	Single-mode optical fiber
	Cladding Diameter	Multimode optical fiber
Applicable Coating	Sheath Clamp	80 to 150 μm
	Coating dia.:	Max. 3,000 μm
Fiber Splice Performance	Splice Loss	Cleave length: 5 to 16 mm
		ITU-T G.652: Avg. 0.02 dB
		ITU-T G.651: Avg. 0.01 dB
		ITU-T G.653: Avg. 0.04 dB
		ITU-T G.654: Avg. 0.04 dB
		ITU-T G.655: Avg. 0.04 dB
Applicable Protection Sleeve	Splice Time	ITU-T G.657: Avg. 0.02 dB
	Sleeve Type	SM FAST mode: Avg. 7 to 9 sec.; SM AUTO mode: Avg. 11 to 13 sec.; AUTO mode: Avg. 14 to 16 sec.
	Sleeve Length	Heat-shrinkable sleeve
	Sleeve Dia.	Max. 66 mm
Sleeve Heat Performance	Heat Time	Max. 6.0 mm before shrinking
		60 mm slim mode: Avg. 8 to 10 sec.
Fiber Tensile Test Force		60 mm mode: Avg. 13 to 15 sec.
Electrode Life		Approx. 2.0 N
Physical Description	Dimensions W	Approx. 6,000 splices
	Dimensions D	Approx. 155 mm without projection
	Dimensions H	Approx. 176 mm without projection
	Weight	Approx. 171 mm without projection
Environmental Condition	Temperature	Approx. 2.8 kg including battery
		Operate: -10 to 50°C
	Humidity	Storage: -40 to 80°C
		Operate: 0 to 95% RH non-condensing
AC Adaptor	Altitude	Storage: 0 to 95% RH non-condensing
		Max. 5,000 m
		Input
Battery Pack	Type	Rechargeable Lithium Ion
	Output	Approx. DC14.4V / 6,380 mAh
	Capacity	Approx. 300 splice and heat cycles
	Temperature	Operate: -10 to 50°C
		Recharge: 0 to 40°C
		Storage < 1 year: -20 to 20°C; < 1 month: -20 to 50°C
Display	Battery Life	Approx. 500 recharge cycles
	Recharge Time	Approx. 4-6 hours from empty
Illumination	LCD Monitor	TFT 5 inches with touch screen
	Magnification	320x
Interface	V-Grooves	LED lamp
	PC	USB2.0 Type C (USB PD compatible)
	External Led Lamp	USB2.0 A type, Approx. DC5V, 500 mA
	Ribbon Stripper	Mini DIN 6 pin, DC12V, Max. 1A
Data Storage	Wireless	Bluetooth 5.2 LE
	Splice Mode	100 splice modes
	Heat Mode	30 heat modes
	Splice Result	20,000 splices
Other Features	Splice Image	100 images
	Automatic Functions	1/4-20 UNC
		Splice mode select by fiber type analysis – Function Control and Discharge power calibration
		Wind protector: open/close
		Sheath clamp: open
	Reference Guide	Heater lid: open/close
Sheath Clamp	Heater clamp: open/close	
Electrode	Video and PDF file stored in splicer	
GPS	Easy sleeve positioning clamp; Close with fiber set (optional); Guild for fiber loading (optional)	
GPS	GPS	Replaceable without tool
		Document splice location into memory; Security disable feature for out of region operation;
GPS	GPS	• No tracking function
		• No tracking function