

Fujikura 100S Fusion Splicer

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

Its customisable 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 Fibre Preparation: The Fujikura 100S splicer supports dual fibre loading, allowing technicians to place two prepared fibres into the machine simultaneously. This can reduce splicing time by up to 30%!

Automated fibre-length adjustments: The 100S Fusion Splicer ensures optimal fibre positioning automatically for a perfect splice every time. If there's too little fibre in front of the electrodes, the splicer automatically pulls more through; if there's too much, it retracts the excess.

Splice Coach: For seasoned technicians, the built-in Splice Coach will help guide you to learn new techniques, improving your productivity and reinforcing splicing best practices.

Simple Fibre Guide: A built-in embedded fibre guide makes fibre loading faster and more accurate by allowing you to simply place the fibre into the guide while the splicer handles alignment.

Custom Splicer Setup: The 100S features a personalised splice settings menu that uses visual diagrams and detailed explanations to show how each parameter affects splicer components for confident customisation.

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.



Features

- Automated wind protector, tube heater and splice operation
- Dual fibre loading reduces preparation time
- Embedded fibre guide for accurate, error-free fibre 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

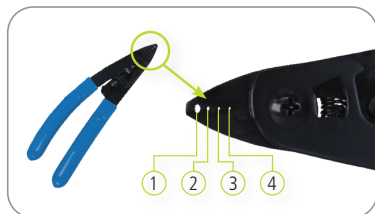
Applications

- Distribution fibre 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



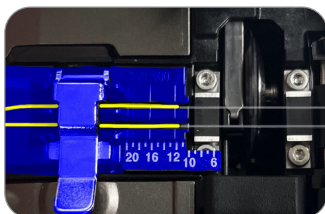
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Features

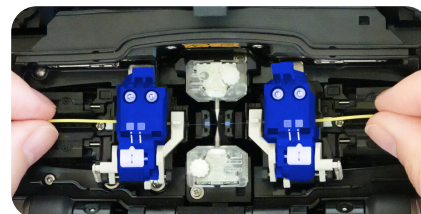


Fibre Stripper SS-05

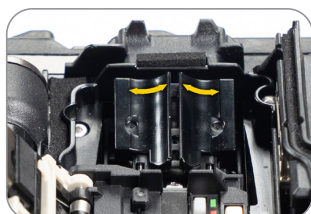
- ① For 2.3 mm
- ② For 900 µm
- ③ For 250 µm
- ④ For 250 µm



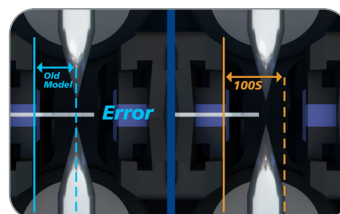
Dual Cleaving



Dual Fibre Loading



Fibre Placement Guide



Expanded Fibre Setting

Ordering Information

DESCRIPTION	AFL NO.
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 Fibre Holder Set Plates, USB-02 Cable, Alcohol Dispenser, Splicer Carrying Strap, Quick Reference Guide, TS-04A Tripod Screw, Work Tray J-Plate, SS05 Single Fibre Stripper, Sharps Container, Safety Glasses, Screw Driver, Cleaning Tips, CC-48 Transit Case with Carrying Strap and Three-Year Warranty	FUJ100S-CT60
Fujikura 100S Standard Fusion Splicer Kit without Bluetooth (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 Fibre Holder Set Plates, USB-02 Cable, Alcohol Dispenser, Splicer Carrying Strap, Quick Reference Guide, TS-04A Tripod Screw, Work Tray J-Plate, SS05 Single Fibre Stripper, Sharps Container, Safety Glasses, Screw Driver, Cleaning Tips, CC-48 Transit Case with Carrying Strap and Three-Year Warranty	FUJ100S-CT60-NW
Fujikura 100S Fusion Splicer (no cleaver) Includes: ADC-22 AC Adapter, BTR-19 Battery, ACC-19 AC Cord, ELCT2-16C Spare Electrodes (pair), Sheath Clamps, SP-05 Fibre Holder Set Plates, USB-02 Cable, Alcohol Dispenser, Splicer Carrying Strap, Quick Reference Guide, TS-03 Tripod Screw, Work Tray J-Plate, SS03 Single Fibre Stripper, CC-48 Transit Case with Carrying Strap and Three-Year Warranty	FUJ100S-NC

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Recommended Products for the 100S

DESCRIPTION	AFL NO.
Cleavers	
CT60 Cleaver	S018654
Fibre Holders (pair)	
FH-70-250 (250 µm coated fibre)	S017111
FH-70-900 (900 µm jacketed fibre)	S017113
FH-70-160 (160 µm coated fibre)	S017095
FH-70-200 (200 µm coated fibre)	S017711
FH-60-LT900 (Loose buffer 900 µm fibre)	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-22 AC Power Cord	S018667
BTR-19 Battery	S018670
DCC-20 Power Cord (connects AC Adapter to cigarette lighter socket)	S017527
DCC-21 Power Cord (connects AC Adapter to power source via alligator clips)	S017528

DESCRIPTION	AFL NO.
Miscellaneous	
SS05 Single fibre stripper (3 hole)	S018327
ELCT2-16C Electrodes	S018669
SP-05 Fibre Holder Set Plates	S018671
Portable Tripod Workstation 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 Carry 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

Specifications

PARAMETER		VALUE
Fibre Alignment Method		Active core alignment
Fibre Count Can Be Spliced		Single fibre
Applicable Fibre	Fibre type	Singlemode optical fibre
		Multi-mode optical fibre
	Cladding Dia.	80 to 150 µm
Applicable Coating	Sheath Clamp	Coating dia.: Max. 3,000 µm
		Cleave length: 5 to 16 mm
Fibre Splice Performance	Splice Loss	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
		ITU-T G.657 : Avg. 0.02 dB
	Splice Time	SM FAST mode: Avg. 7 to 9 sec
		SM AUTO mode: Avg. 11 to 13 sec
AUTO mode: Avg. 14 to 16 sec		
Applicable Protection Sleeve	Sleeve Type	Heat-shrinkable sleeve
	Sleeve Length	Max. 66 mm
	Sleeve Dia.	Max. 6.0 mm before shrinking
Sleeve Heat Performance	Heat Time	60 mm slim mode: Avg. 8 to 10 sec
		60 mm mode: Avg.13 to 15 sec
Fibre Tensile Test Force		Approx. 2.0 N
Electrode Life		Approx. 6,000 splices
Physical Description	Dimensions W	Approx. 155 mm without projection
	Dimensions D	Approx. 176 mm without projection
	Dimensions H	Approx. 171 mm without projection
	Weight	Approx. 2.8 kg including battery

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Specifications (cont.)

Environmental Condition	Temperature	Operate: -10 to 50°C Storage: -40 to 80°C
	Humidity	Operate: 0 to 95% RH non-condensing Storage: 0 to 95% RH non-condensing
	Altitude	Max. 5,000 m
AC Adaptor	Input	AC100 to 240 V, 50/60 Hz, Max. 1.5A
Battery Pack	Type	Rechargeable Lithium Ion
	Output	Approx. DC14.4V / 6,380 mAh
	Capacity	Approx. 300 splices 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
	Battery Life	Approx. 500 recharge cycles
	Recharge Time	Approx. 4 - 6 hours from empty
Display	LCD Monitor	TFT 5 inches with touchscreen
	Magnification	320x
Illumination	V-Grooves	LED lamp
Interface	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
	Wireless	Bluetooth 5.2 LE
Data Storage	Splice Mode	100 splice modes
	Heat Mode	30 heat modes
	Splice Result	20,000 splices
	Splice Image	100 images
Screw Hole for Tripod		1/4-20 UNC
Other Features	Automatic Functions	Splice mode select by fibre type analysis – Function Control and Discharge power calibration
		Wind protector: open/close
		Sheath clamp: open
		Heater lid: open/close
	Reference Guide	Heater clamp: open/close
		Video and PDF file stored in splicer
	Sheath Clamp	Easy sleeve positioning clamp
		Close with fibre set (optional)
		Guild for fibre loading (optional)
	Electrode	Replaceable without tool
	GPS	Document splice location into memory
		Security disable feature for out of region operation • No tracking function