


**Bluetooth®**


Workstation in Transit Case



Workstation on Transit Case

## Fujikura 41S Fusion Splicer

The Fujikura 41S is a fully ruggedized, two camera, active cladding alignment fusion splicer. Core sensing loss estimation technology provides the most accurate assessment of splice loss available in any active cladding alignment splicer in the world. Enabled by Warm Splice Imaging (WSI), the 41S can determine the accuracy of core alignment by evaluation of the splice during the heating process. This technology delivers splice loss estimates with a greater level of accuracy as those based on only cladding alignment. State-of-the-art cleaver management via Bluetooth® connection with the CT50 Cleaver tracks usage and enables automated blade rotation as needed. The dual-camera, active V-groove alignment system provides consistent splicing performance in the most challenging conditions. A 6-second splice time and 25-second shrink time offers unmatched speed and productivity, while an easy-to-use touchscreen monitor provides simple and intuitive menu navigation. Interchangeable sheath clamps or fiber holders provide versatility for user preference, and compatibility with fusion installable connectors. The extended-life battery is rated for up to 200 splice and heat cycles. Long-life electrodes, lasting 5,000 splices, help minimize downtime for replacement and stabilization. The large 5" monitor provides a crystal clear image, even in the brightest sunlight. Software updates are accomplished via the internet allowing users to quickly update their software as new splice programs become available.

Backed by the best service team in the industry, the Fujikura 41S is the ideal splicer to use when portability, ruggedness, and reliability are needed for your splicing application.

### Features

- Warm Splice Imaging (WSI) loss estimation technology
- Bluetooth enabled cleaver management
- Two camera, active cladding alignment
- 5" touchscreen monitor
- Interchangeable sheath clamps and fiber holders
- Fully ruggedized for shock, moisture and dust resistance
- Extended-life electrodes, 5,000 splices, exchangeable without tools
- Long-life battery (200 splices/shrinks per charge)

### Ordering Information

| DESCRIPTION  | AFL NO. |
|--|---------|
| <b>Fujikura 41S Fusion Splicer</b><br><b>Includes:</b> Fujikura 41S Fusion Splicer, S31A Sheath clamps (installed), FH-70-250 Fiber Holders (pair), FH-70-900 Fiber Holders (pair), SP-31 Set Plates, ADC-19A AC Adapter, BTR-11A Battery Pack (installed), ACC-09 Power Cord, ELCT2-16B Spare Electrodes (pair), Screwdriver, Operation Manual on CD, Quick Reference Guide, SS-03 Single Fiber Stripper and CC-36 Transit Case                                     | S017090 |
| <b>Fujikura 41S Fusion Splicer Kit with CT50 Cleaver</b><br><b>Includes:</b> Fujikura 41S Fusion Splicer, CT50 Cleaver, S31A Sheath clamps (installed), FH-70-250 Fiber Holders (pair), FH-70-900 Fiber Holders (pair), SP-31 Set Plates, ADC-19A AC Adapter, BTR-11A Battery Pack (installed), ACC-09 Power Cord, ELCT2-16B Spare Electrodes (pair), Screwdriver, Operation Manual on CD, Quick Reference Guide, SS-03 Single Fiber Stripper and CC-36 Transit Case | S017091 |
| One Year Extended Warranty   | S012996 |
| Two Year Extended Warranty   | S013000 |

## Fujikura 41S Fusion Splicer

### Recommended Accessories

| DESCRIPTION                                      | AFL NO. |
|--|---------|
| <b>Cleavers</b>                                  |         |
| CT50 Cleaver                                     | S017030 |
| CT08 Cleaver                                     | S017004 |
| <b>Fiber Holders</b>                             |         |
| FH-70-250 Fiber Holder (pair)                    | S017111 |
| FH-70-900 Fiber Holder (pair)                    | S017113 |
| FH-60-LT900 Fiber Holder (pair)                  | S015181 |
| <b>Batteries</b>                                 |         |
| BTR-11A Battery Pack                             | S017354 |
| <b>FUSEConnect® Accessories</b>                  |         |
| 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 (pair)                             | S014704 |

| DESCRIPTION                                      | AFL NO. |
|--|---------|
| <b>Miscellaneous</b>                             |         |
| CLAMP-S31A Sheath Clamps                         | S017100 |
| CLAMP-S31B Sheath Clamps for loose buffer 900 µm | S017101 |
| SP-31 Set Plate (pair)                           | S017106 |
| ELCT2-16B Electrodes                             | S017103 |
| ADC-19A AC Adapter                               | S017104 |
| ACC-09 Power Cord                                | S014390 |
| CC-36 Transit Case                               | S017105 |
| USB Cable  | S014777 |
| Splicer V-Groove Cleaning Kit                    | S014397 |
| SS03 Single Fiber Stripper (3 hole)              | S017098 |
| SS01 Single Fiber Stripper (1 hole)              | S017099 |

### Specifications

| PARAMETER                       | VALUE   |
|---------------------------------|---|
| Model                           | 41S   |
| Applicable Fibers               | Single-mode (G.652 & G.657), Multimode (G.651), DSF (G.653), NZDS (G.655)   |
| Cladding Diameter               | 125 µm  |
| Coating Diameter                | 250 µm up to 3 mm   |
| Fiber Cleave Length             | 5 mm to 16 mm   |
| Typical Average Splice Loss     | 0.03 dB (SM), 0.01 dB (MM), 0.05 dB (DS) and 0.05 dB (NZDS)   |
| Splicing Time                   | Typical 6 sec with SM   |
| Arc Calibration Method          | Automatic, real-time and by using results of previous splice when in AUTO mode, manual arc calibration function available |
| Splicing Modes                  | Total 100 splice modes  |
| Splice Loss Estimate            | Determined with cladding or core alignment based on method selected by the user   |
| Storage of Splice Result        | 10,000 splice results   |
| Fiber Display                   | 5 inch TFT color LCD with X or Y view or both X and Y view simultaneously   |
| Magnification                   | 200X for single-camera view and 132X magnification for dual-camera view   |
| Viewing Method                  | 2 axis CMOS camera  |
| Operating Condition             | Altitude: 0 to 5,000 m above sea level, -10° to +50° C, Humidity: 0 to 95% RH, non-dew                                    |
| Mechanical Proof Test           | 1.96 N  |
| Tube Heater                     | 30 heating modes  |
| Tube Heating Time               | Typical 25 sec with FP-60 (60 mm) sleeve  |
| Protection Sleeve Length        | 60 mm, 40 mm, micro   |
| Splice/Heat Cycles with Battery | Typical 200 cycles with BTR-11A   |
| Electrode Life                  | 5,000 splices   |
| Power Supply                    | Auto select from 100 V to 240 V with AC adapter, 14.8 V DC with installed battery   |
| Terminals                       | USB 2.0   |
| Wind Protection                 | Maximum wind velocity of 15 m/s. (34 mph)   |
| Dimensions                      | 131 x 201 x 79 (mm)   |
| Weight                          | 1,300 g (2.85 lbs) with battery   |