


**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. Enabled by Warm Splice Imaging (WSI), the 41S+ can determine the alignment of the fiber cores by observing the splice during the heating process. This delivers splice loss estimates with a greater level of accuracy than those based on cladding only alignment. Active Blade Management (ABM) via Bluetooth® connection with the CT50 Fiber Cleaver tracks usage and enables automated blade rotation as needed, mitigating fiber reburns. The new Active Fusion Control (AFC) technology further reduces reburns by improving splice losses for fibers with poor cleave angles. With the combination of ABM and AFC, the Fujikura 41S+ contains a robust set of splicing features that will reduce the likelihood of poor splice installations or repairs.

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 splice-on connectors. The extended-life battery is rated for up to 200 splice and heat cycles. Long-life electrodes provide 5,000 splices and 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 splicing applications.

### Features

- Warm Splice Imaging (WSI) loss estimation technology
- Improved real-time arc control for fibers with poor cleave angles
- 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

### Ordering Information

DESCRIPTION	AFL NO.
<b>Fujikura 41S+ Fusion Splicer</b> <b>Includes:</b> Fujikura 41S+ Fusion Splicer, S31A Sheath clamps (installed), FH-70-250 Fiber Holders (pair), FH-70-900 Fiber Holders (pair), SP-01 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> <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-01 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 (single holder)	S014704

DESCRIPTION	AFL NO.
<b>Miscellaneous</b>	
CLAMP-S31A Sheath Clamps	S017100
CLAMP-S31B Sheath Clamps for loose buffer 900 µm	S017101
SP-01 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



## Fujikura 41S+ Fusion Splicer

### Specifications

PARAMETER	VALUE
Fiber alignment method	Active cladding alignment
Fiber count can be spliced	Single fiber
Applicable optical fiber	Fiber type
	Single mode optical fiber
	Multi mode optical fiber
Applicable coating	Cladding dia.
	Approx.125 µm
	Sheath clamp
	Coating dia. : Max. 3000 µm
	Cleave length : 5 to 16 mm
Fiber splice performance	Splice loss
	ITU-T G.652 : Avg. 0.03 dB
	ITU-T G.651 : Avg. 0.01 dB
	ITU-T G.653 : Avg. 0.05 dB
	ITU-T G.655 : Avg. 0.05 dB
	ITU-T G.657 : Avg. 0.03 dB
	Splicing time
	SM FAST mode : Avg. 6 sec.
	AUTO mode : Avg. 9 sec.
Applicable protection sleeve	Sleeve type
	Heat shrinkable sleeve
	Sleeve length
	Max. 66 mm
	Sleeve dia.
	Max. 6 mm before shrinking
Sleeve heat performance	Heat time
	60 mm mode : Avg. 26sec.
Fiber tensile test force	Approx. 2.0 N
Electrode life	Approx. 5,000 splices
Physical description	Dimensions W
	Approx.131 mm without projection
	Dimensions D
	Approx.201 mm without projection
	Dimensions H
	Approx.79 mm without projection
	Weight
	Approx. 1.3 kg including battery
Environmental condition	Temperature
	Operate : -10 to 50°C
	Storage : -40 to 80°C
	Humidity
	Operate : 0 to 95% non-condensing
	Storage : 0 to 95% non-condensing
	Altitude
	Max. 5,000m
AC adaptor	Input
	AC100 to 240V, 50/60Hz, Max. 1A
	Type
	Rechargeable Lithium Ion
	Output
	Approx. DC14.4V, 3360mA
Battery pack	Capacity
	Approx. 200 splice and heat cycles
	Temperature
	Recharge : 0 to 40°C
	Storage : -20 to 30°C
	Battery life
	Approx. 500 recharge cycles
Display	LCD monitor
	TFT 5.0 inches with touch screen
Illumination	Magnification
	132 to 300x
Interface	V-grooves
	LED lamp
	PC
	USB2.0 MINI B type
	Wireless
	Bluetooth® 4.1 LE
Data storage	Splice mode
	100 splice modes
	Heat mode
	30 heat modes
	Splice result
	10,000 results
	Fiber image
	100 images
Screw hole for tripod	
	1/4-20UNC
Other features	Automatic functions
	Fiber heat calibration
	Sheath clamp
	Easy sleeve positioning
	Loss Estimate
	Warm splice image estimation
	Electrode
	Tool less replaceable electrode

