



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
Fujikura 41S Fusion Splicer Includes: 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
Fujikura 41S Fusion Splicer Kit with CT50 Cleaver Includes: 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
One Year Extended Warranty
Two Year Extended Warranty

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Recommended Accessories

DESCRIPTION
Cleavers
CT50 Cleaver
CT08 Cleaver
Fiber Holders
FH-70-250 Fiber Holder (pair)
FH-70-900 Fiber Holder (pair)
FH-60-LT900 Fiber Holder (pair)
Batteries
BTR-11A Battery Pack
FUSEConnect® Accessories
FH-FC-20 (900 µm within 2.0 mm sheathing) (each)
FH-FC-30 (900 µm within 3.0 mm sheathing) (pair)
FH-FC-900 (900 µm cable) (each)
CLAMP-FC-2000 (pair)
CLAMP-FC-3000 (pair)

DESCRIPTION
Miscellaneous
CLAMP-S31A Sheath Clamps
CLAMP-S31B Sheath Clamps for loose buffer 900 µm
SP-01 Set Plate (pair)
ELCT2-16B Electrodes
ADC-19A AC Adapter
ACC-09 Power Cord
CC-36 Transit Case
USB Cable
Splicer V-Groove Cleaning Kit
SS03 Single Fiber Stripper (3 hole)
SS01 Single Fiber Stripper (1 hole)

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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 μ m
	Sheath clamp	Coating dia. : Max. 3000 μ m
		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
AC adaptor	Altitude	Max. 5,000m
	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
	Magnification	132 to 300x
Illumination	V-grooves	LED lamp
Interface	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