



 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. The new Active Fusion Control (AFC) technology improves splice losses for fibres that possess a poor cleave angle. Combined with Active Blade Management between the splicer and cleaver, 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 fibre 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 minimise 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
- Cleaver tracking and upkeep with wireless communication
- Improved real-time arc control for fibres with poor cleave angles
- Two camera, active cladding alignment
- 5" touchscreen monitor
- Interchangeable sheath clamps and fibre 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.
Fujikura 41S+ Fusion Splicer Includes: Fujikura 41S+ Fusion Splicer, S31A Sheath clamps (installed), 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 Fibre Stripper and CC-36 Transit Case	FUJ41S-NC
Fujikura 41S+ Fusion Splicer Kit with CT50 Cleaver Includes: Fujikura 41S+ Fusion Splicer, CT50 Cleaver, S31A Sheath clamps (installed), 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 Fibre Stripper and CC-36 Transit Case	FUJ41S-CT50

Fujikura 41S+ Fusion Splicer

Recommended Accessories

DESCRIPTION	AFL NO.
Cleavers	
CT50 Cleaver	S017030
CT08 Cleaver	S017004
Fibre Holders	
FH-70-250 Fibre Holder (pair)	S017111
FH-70-900 Fibre Holder (pair)	S017113
FH-60-LT900 Fibre Holder (pair)	S015181
Batteries	
BTR-11A Battery Pack	S017354
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 (pair)	S014704

DESCRIPTION	AFL NO.
Miscellaneous	
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 Fibre Stripper (3 hole)	S017098
SS01 Single Fibre Stripper (1 hole)	S017099

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Specifications

PARAMETER	VALUE	
Fibre alignment method	Active cladding alignment	
Fibre count can be spliced	Single fibre	
Applicable optical fibre	Fibre type	Singlemode optical fibre
		Multi-mode optical fibre
Applicable coating	Cladding dia.	Approx. 125 µm
	Sheath clamp	Coating dia. : Max. 3000 µm
		Cleave length : 5 to 16 mm
Fibre 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.
Fibre 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	AC 100 to 240V, 50/60Hz, Max. 1A
	Type	Rechargeable Lithium Ion
	Output	Approx. DC 14.4V, 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
	Fibre image	100 images
Screw hole for tripod		1/4-20UNC
Other features	Automatic functions	Fibre heat calibration
	Sheath clamp	Easy sleeve positioning
	Loss Estimate	Warm splice image estimation
	Electrode	Tool less replaceable electrode