



70S

## Fujikura 70S Fusion Splicer

The Fujikura 70S is the world’s fastest and most robust core alignment fusion splicer. Incorporating the proven ruggedized features pioneered by Fujikura, the 70S has added automated and enhanced user control features to increase splicing efficiency. A user programmable, automated wind protector expedites the splicing process by automatically closing to initiate the splice process, and opening upon splice completion. Fully programmable “auto open sheath clamps” open one sheath clamp, after the tensile test, to prepare the fiber for removal. A new automated “clamshell design” tube heater applies heat to both sides of the splice protection sleeve resulting in a 14-second shrink time. The result is a total splice process time of approximately 21 seconds! Ruggedness and durability are greatly enhanced by a mirror-less optical system and “severe-impact resistant” monitor. Battery capacity is now 200 splices/shrinks. An innovative transit case doubles as a built-in or mobile workstation and makes splicing easier than ever before.



In case with lid detached

### Features

- Automated and programmable wind protector
- 14-second automated tube heater
- Fully ruggedized for shock, dust and moisture
- Li-Ion battery with 200 splices/shrinks per charge
- 5 mm cleave length for splice on connector or small package needs
- Sheath clamp or fiber holder operation
- On-board training and support videos
- Internet software upgrades
- Multi-function transit case with integrated workstation



### Ordering Information

DESCRIPTION	AFL NO.
<b>70S Fusion Splicer (machine only)</b> <b>Includes:</b> ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), S70A Sheath Clamp, USB Cable, Alcohol Pot, Screw Driver, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual and CC30 Transit Case with Carrying Strap	S015580
<b>70S Fusion Splicer Kit (with cleaver)</b> <b>Includes:</b> CT30A Cleaver, ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), S70A Sheath Clamp, USB Cable, Alcohol Dispenser, Screw Driver, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual, and CC30 Transit Case with Carrying Strap	S015590
<b>70S Fusion Splicer Kit (with cleaver, battery and cord)</b> <b>Includes:</b> BTR-09 Battery, DCC-18 Battery Charge Cord, CT30A Cleaver, ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), S70A Sheath Clamp, USB Cable, Alcohol Dispenser, Screw Driver, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual and CC30 Transit Case with Carrying Strap	S015591
One Year Extended Warranty	S012996
Two Year Extended Warranty	S013000

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### Recommended Accessories for the 70S

DESCRIPTION	AFL NO.
<b>Cleavers</b>	
CT-10A Cleaver	S014784
CT-30A Cleaver	S014080
<b>Fiber Holders</b>	
FH-60-250 Fiber Holder (pair)	S014548
FH-60-900 Fiber Holder (pair)	S014549
FH-60-160 Fiber Holder (pair)	S014690
FH-60-LT900 Fiber Holder (each)	S015181
FH-FC-2000(2 mm cable) (each)	S014696
FH-FC-3000 (3 mm cable) (each)	S014695
FH-FC-900 (900 μm cable) (each)	S014697
<b>Sheath Clamps</b>	
CLAMP-S70A Sheath Clamp (Coating diameter from 100 μm -1000 μm (5-16 mm cleave))	S015583
CLAMP-S70B Sheath Clamp (900 μm diameter loose tube fiber (5-16 mm cleave))	S015584

DESCRIPTION	AFL NO.
<b>Batteries and Power Cords</b>	
ADC-18 AC Adapter	S015585
ACC-14 AC Power Cord	S014536
BTR-09 Battery (160 splice/heat cycles)	S015581
DCC-18 Battery Charge Cord	S015582
DCC-12 Power Cord (connects AC Adapter to cigarette lighter socket)	S013552
DCC-13 Power Cord (connects AC Adapter to power source via alligator clips)	S013556
<b>Miscellaneous</b>	
ELCT2-20A Electrodes	S013532
Portable Tripod Workstation (see product profile for more detail)	S014773
ASW-02 Splicing Workstation (see product profile for more detail)	S010532
CC-30 Transit Case	S015587
USB Cable	S014777

### Specifications

PARAMETER	VALUE
Model	70S Fusion Splicer
Applicable Fibers	Single-mode (G.652 & G.657), Multimode (G.651), DS (G.653), NZDS (G.655)
Cladding Diameter	80 μm to 150 μm
Coating Diameter	100 μm to 1,000 μm
Fiber Cleave Length	5 to 16 mm
Typical Average Splice Loss	0.02 dB with SM, 0.01 dB with MM, 0.04 dB with DS, 0.04 dB with NZDS, measured by cut-back method relevant to ITU-T and IEC standards
Splicing Time	SM FAST mode — 7 seconds; SM AUTO mode — 12 seconds; AUTO mode — 15 seconds
Arc Calibration Method	Automatic, real-time and by using results of previous splice when in AUTO mode, manual arc calibration function available
Splicing Modes	100 preset and user programmable modes
Splice Loss Estimate	Based upon dual camera core alignment data
Storage of Splice Result	Last 2,000 results to be stored in the internal memory
Fiber Display	X or Y, or both X and Y simultaneously. Front or rear monitor display options with automated image orientation
Magnification	300X for single X or Y view, or 160X for X and Y view
Viewing Method	Dual cameras with 4.73 inch TFT color LCD monitor
Operating Condition	0 to 5,000 m above sea level, 0 to 95%RH and -10 to 50°C respectively
Mechanical Proof Test	1.96 to 2.25N
Tube Heater	Built-in tube heater with 30 heating modes; auto-start function
Tube Heating Time	Typical 14 seconds with FP-03 sleeve, 17 seconds with FP3 (40), 5-16 seconds with Fujikura micro sleeves
Protection Sleeve Length	60 mm, 40 mm, micro
Splice/Heat Cycles with Battery	Typical 200 cycles with power save functions activated
Power Supply	Auto voltage selection from 100 to 240 V AC or 10 to 15 V DC with ADC-18, 14.8 V DC with BTR-09 battery
Terminals	USB 1.1 (USB-B type) for PC communication. Mini-DIN (6-pin) for HJS-02/03 and SH-8 tube heater
Wind Protection	Maximum wind velocity of 15 m/s. (34 mph)
Dimensions	146 W x 159 D x 150 H (mm) / 5.75 W x 6.25 D x 5.9 H (inches)
Weight	2.5 kg (5.5 lbs) with AC adapter ADC-18; 2.7 kg (5.95 lbs) with BTR-09 battery