



FUSION SPLICING SYSTEMS

Single Fusion Splicers | Mass Fusion Splicers
Fiber Cleavers | Supplies, Parts and Accessories

90S+ Fusion Splicer Kits



The Fujikura 90S+ can be use in multiple field splicing applications including bend-insensitive fibers in drop cables, long-haul terrestrial and submarine LEAF® fibers, loose buffer fiber, splice-on connectors, and the list goes on. The speed and accuracy of the 90S+ make it suitable for certain production and specialty environments where high output, tight packaging, and low loss requirements are required.

FEATURES

- Cleaver tracking and upkeep with wireless communication
- Improved real-time arc control for fibers with poor cleave angles
- Automated wind protector, sheath clamps and splice operation
- Loose and tight buffer with same sheath clamp
- Lithium-ion battery with 300 splices/shrinks per charge
- PC software and 90S+ manual downloaded from splicer
- Multi-function transit case with integrated workstation

DESCRIPTION	AFL NO.
90S+ Fusion Splicer – Includes: ADC-20 AC Adapter, ACC-14 AC Cord, BTR-15 Battery, ELCT2-16B Spare Electrodes (pair), S90 Sheath Clamps (Installed), SP-03 Fiber Holder Set Plates (pair), USB-01 Cable, Alcohol Dispenser, Screwdriver, Splicer Carrying Strap, Quick Reference Guide, TS-03 Tripod Screw, Work Tray J-Plate, SS03 single fiber stripper and CC39 Transit Case with Carrying Strap	S017519
90S+ Fusion Splicer without Bluetooth® – Includes: ADC-20 AC Adapter, BTR-15 Battery, ACC-14 AC Cord, ELCT2-16B Spare Electrodes (pair), S90 Sheath Clamps (Installed), SP-03 Fiber Holder Set Plates (pair), USB-01 Cable, Alcohol Dispenser, Screwdriver, Splicer Carrying Strap, Quick Reference Guide, TS-03 Tripod Screw, Work Tray J-Plate, SS03 Single Fiber Stripper and CC39 Transit Case with Carrying Strap	S017520
90S+ Fusion Splicer with CT50 Cleaver – Includes: CT50 Cleaver, ADC-20 AC Adapter, ACC-14 AC Cord, BTR-15 Battery, ELCT2-16B Spare Electrodes (pair), S90 Sheath Clamps (Installed), SP-03 Fiber Holder Set Plates (pair), USB-01 Cable, Alcohol Dispenser, Screwdriver, Splicer Carrying Strap, Quick Reference Guide, TS-03 Tripod Screw, Work Tray J-Plate, SS03 single fiber stripper and CC39 Transit Case with Carrying Strap	S017521
One Year Extended Warranty	S012996
Two Year Extended Warranty	S013000

45S Fusion Splicer Kits



The 45S cladding alignment fusion splicer is changing the way people splice fiber in small to mid-fiber count applications. This Fujikura splicer debuts a landmark improvement to the fusion splicing process with the ability to prepare and load both fibers simultaneously. The hand-held fiber coating stripper, the SS-05, is capable of stripping two 250 µm coated fibers in the same pass, along with the CT-16A cleaver adapter plate which can likewise accommodate two bare fibers for cleaving. After preparation, the 45S patented sheath clamps enable loading both fibers simultaneously into the splicer with one fiber in each hand. The user can press down on the sheath clamp base to close it while positioning the fiber in the v-grooves. This enables one-handed operation.

FEATURES

- Simultaneous fiber preparation with newly patented sheath clamp design
- Sheath clamps automatically opened with the wind protector
- Automatic fiber placement correction
- Active Fusion Control for arc optimization with every splice
- Active Blade Management for cleave quality monitoring and correction
- Easy-access battery, screen position adjustments, and ergonomic adaptations
- Fully ruggedized for shock, moisture and dust resistance

DESCRIPTION	AFL NO.
Fujikura 45S Fusion Splicer Standard Kit with CT50 – Includes: 45S Fusion Splicer, CT50 cleaver, SS-05 dual fiber stripper, 1 pair each FH-70-250 and FH-70-900 fiber holders, SP-04 set plates, ELCT2-16B Spare Electrodes (Pair), ADC-21 AC Adapter, BTR-17 Battery Pack (installed), ACC-09 Power Cord, USB-01 USB Cable, AP-02 Alcohol Container, WT-10 work tray, ST-03 carrying case strap, TS-03 tripod screw, CC-45 Transit Case, 1 year factory warranty, and instruction manual downloaded from splicer	S018318
Fujikura 45S Fusion Splicer Kit without CT50 Cleaver – Includes: 45S Fusion Splicer, SS-05 dual fiber stripper, 1 pair each FH-70-250 and FH-70-900 fiber holders, SP-04 set plates, ELCT2-16B Spare Electrodes (Pair), ADC-21 AC Adapter, BTR-17 Battery Pack (installed), ACC-09 Power Cord, USB-01 USB Cable, AP-02 Alcohol Container, WT-10 work tray, ST-03 carrying case strap, TS-03 tripod screw, CC-45 Transit Case, 1 year factory warranty, and instruction manual downloaded from splicer	S018319
One Year Extended Warranty	S012996
Two Year Extended Warranty	S013000

90R Fusion Splicer Kits



The Fujikura 90R is the mass fusion splicer workhorse of the splicing world. As data demand continues to rise, the solution to handle the increased traffic is to increase fiber counts. As a result, fiber counts being utilized in enterprise data centers, campus, and metro networks have grown enough to make single fiber splicing too costly and timely. High density cabling made possible by SpiderWeb Ribbon® (SWR®) and others like it are spurring ribbon splicing activity in places that have traditionally used loose fiber. The 90R is the answer to these changes in splicing demand.

FEATURES

- Cleaver tracking and upkeep with wireless communication
- Automated wind protector, tube heater and splice operation
- User replaceable v-grooves
- 200 µm and 250 µm SWR universal ribbon prep accessories
- Graphical User Interface with 5.0" Touchscreen
- PC software and 90R manual downloaded from splicer
- Multi-function transit case with integrated workstation

DESCRIPTION	AFL NO.
90R Fusion Splicer – Includes: BTR-15 Battery, ADC-20 AC Adapter, ACC-14 AC Cord, ELCT2-16B Spare Electrodes (pair) with spare V-Grooves (VG12-01), FH-70-12 Fiber Holders (pair), USB Cable, Alcohol Dispenser, Splicer Carrying Strap, Quick Reference Guide, TS-03 Tripod Screw, Video Instruction Manual, Work Tray, and CC-39 Transit Case with Carrying Strap	S017509
90R Fusion Splicer with CT50 Cleaver and RS03 Thermal Stripper – Includes: BTR-15 Battery, CT50 Cleaver, RS03 Stripper, ADC-20 AC Adapter, ACC-14 AC Cord, ELCT2-16B Spare Electrodes (pair) with spare V-Grooves (VG12-01), FH-70-12 Fiber Holders (pair), USB Cable, Alcohol Dispenser, Splicer Carrying Strap, Quick Reference Guide, TS-03 Tripod Screw, Video Instruction Manual and CC-39 Transit Case with Carrying Strap	S017511
90R Fusion Splicer without Bluetooth® – Includes: BTR-15 Battery, ADC-20 AC Adapter, ACC-14 AC Cord, ELCT2-16B Spare Electrodes (pair) with spare V-Grooves (VG12-01), FH-70-12 Fiber Holders (pair), USB Cable, Alcohol Dispenser, Splicer Carrying Strap, Quick Reference Guide, TS-03 Tripod Screw, Video Instruction Manual and CC-39 Transit Case with Carrying Strap	S017540
90R Fusion Splicer without Bluetooth® with CT50 Cleaver and RS01 Thermal Stripper – Includes: BTR-15 Battery, CT50 Cleaver, RS01 Stripper, ADC-20 AC Adapter, ACC-14 AC Cord, ELCT2-16B Spare Electrodes (pair) with spare V-Grooves (VG12-01), FH-70-12 Fiber Holders (pair), USB Cable, Alcohol Dispenser, Splicer Carrying Strap, Quick Reference Guide, TS-03 Tripod Screw, Video Instruction Manual and CC-39 Transit Case with Carrying Strap	S017510
One Year Extended Warranty	S012996
Two Year Extended Warranty	S013000

Supplies, Parts and Accessories

MODEL / DESCRIPTION	USED WITH	AFL NO.
STRIPPERS		
RS01 Thermal Stripper	90R	S016815
RS02 Thermal Stripper	90R	S016816
RS03 Thermal Stripper	90R	S016817
SS03 Single Fiber Stripper	ANY	S017098
SS05 Dual Fiber Stripper	ANY	S018327
CLEAVERS		
CT50 Cleaver	ANY	S017030
CT16 Cleaver	ANY	S018330
FIBER HOLDERS (PAIRS)		
FH-70-250 (250 µm coated single fiber)	ANY	S017111
FH-70-900 (900 µm jacketed single fiber)	ANY	S017113
FH-60-LT900 Fiber Holder Pair	ANY	S015181
FH-70-2 (2-fiber ribbon) Fiber Holders	90R	S017114
FH-70-4 (4-fiber ribbon) Fiber Holders	90R	S017115
FH-70-6 Fiber Holders	90R	S017116
FH-70-8 Fiber Holders	90R	S017117
FH-70-10 Fiber Holders	90R	S017118
FH-70-12 Fiber Holders	90R	S017119
FH-70-12-200 Fiber Holders (200 µm pitch ribbons)	90R	S017681
FH-70-16 Fiber Holders	90R	S017533
FH-70-12PC Fiber Holders	90R	S017464
V-GROOVES		
VG12-01 12 fiber V-groove	90R	S017548
VG12-01-200 12 fiber V-groove (200 µm pitch)	90R	S017680
VG04-01 4 fiber V-groove	90R	S017551
VG16-01 16 fiber V-groove	90R	S017552
SPLICE PROTECTION SLEEVES		
FP-60 Slim Protection Sleeve, 2.3 mm (max.) sleeve diameter after shrink (pack of 100, bag of 2000)	ANY	S018262
FP-40 Slim Protection Sleeve, 2.3 mm (max.) sleeve diameter after shrink (pack of 100, bag of 2000)	ANY	S018263
FP-60 60 mm Single Protection Sleeves, 3.1 mm (max.) sleeve diameter after shrink (pack of 100, bag of 2000)	ANY	S015915
FP-40 40 mm Single Protection Sleeves, 3.1 mm (max.) sleeve diameter after shrink (pack of 100, bag of 2000)	ANY	S015916
FP-05 40 mm Ribbon Protection Sleeves (pack of 5, box of 250)	90R	S003027
WORKSTATIONS		
Portable Tripod Workstation Kit	ANY	S014773
ASW-02 Splicing Workstation with Aerial Mounting System	ANY	S010532

Supplies, Parts and Accessories

MODEL / DESCRIPTION	USED WITH	AFL NO.
RIBBON FORMING		
FAT-04 Fiber Arrangement Tool	90R	S010212
FAA-03A Ribbon Forming Adhesive (0.5 liter bottle)	90R	S008622
FAA-03A Ribbon Forming Adhesive (4 oz. bottle)	90R	S008720
FST-12 Fiber Separation Tool	90R	S014012
RT-02 Fiber Arrangement Tool (250 µm & 200 µm)	90R	S017465
BATTERIES, POWER SOURCES AND CORDS		
ADC-09A AC Adapter	RS series strippers	S016820
ACC-09 AC Power Cord	ADC-09A, ADC-19A and ADC-21	S014390
ADC-20 AC Adapter/Battery Charger	90R, 90S+	S017513
ACC-14 AC Power Cord	ADC-20	S014536
ADC-21 AC Adapter	45S	S018168
DCC-20 Power Cord (connects ADC-20 to cigarette lighter socket)	ADC-20	S017527
DCC-21 Power Cord (connects ADC-20 to DC power source via alligator clips)	ADC-20	S017528
BTR-15 Battery	90R, 90S+	S017512
BTR-17 Battery	45S	S018324
ELECTRODES		
ELCT2-16B	45S, 90S+, 90R	S017103
FUSECONNECT® ACCESSORIES		
FH-FC-900 FUSEConnect Fiber Holder (900 µm)	ANY	S014697
FH-FC-20 FUSEConnect Fiber Holder (2 mm)	ANY	S014696
FH-FC-30 - Fiber Holder (3 mm)	ANY	S014695
CLAMP-FC-2000 (pair)	ANY	S014705
CLAMP-FC-3000 (pair)	ANY	S014704
SHEATH CLAMPS AND SET PLATES (PAIR)		
CLAMP-S35B Loose Buffer Sheath Clamps	45S	S018333
S90 Sheath Clamps (Universal)	90S+	S017696
SP-03 Set Plates	90S+	S017518
SP-04 Fiber Holder Set Platers	45S	S018332
CLEANING		
Splicer V-groove Cleaning Kit	ANY	S014397
Splicer V-groove Cleaning Kit Refill	ANY	S014416

CT50 Fiber Cleaver



The CT50 features automated blade rotation, unprecedented durability, and simplistic maintenance unseen with any other cleaver. Paired with a Bluetooth® enabled Fujikura splicer, cleaver blade positions can be automatically advanced when needed based on cleave count or cleave quality. If automated rotation is not desired, the blade position can be advanced at the touch of a button, no tools required. The easy to read blade position indicator clearly displays the selected position. The Bluetooth feature, along with simplified mechanical operation, increases overall productivity and reliability. The fiber clamp opens beyond 90 degrees and readies the blade for cleaving in the same motion. This allows easy viewing of the distance scale used to gauge cleave length. The 16-position blade yields 60,000 single-fiber cleaves, or 5,000 12-fiber ribbon cleaves. The built-in scrap collector conveniently stores fiber shards until they can be safely discarded.

FEATURES

- Motorized blade rotation
- Bluetooth communication
- Shock resistant
- Simple one-step operation
- 60,000 cleave blade life
- Field serviceable

DESCRIPTION	AFL NO.
CT50 Fiber Cleaver with Bluetooth includes: AD-10-M24 fiber adapter, HEX-01 hex wrench, instruction manual and CC-37 carrying case	S017030
CT50 Fiber Cleaver without Bluetooth includes: AD-10-M24 fiber adapter, HEX-01 hex wrench, instruction manual and CC-37 carrying case	S018020
CB-08 Replacement Blade	S017076
FDB-05 Scrap Collector Box	S017121
AD-50 Adapter Plate	S017010
AD-10-M24 Fiber Plate	S017335
ARM-CT50-01 Replacement Arm Set	S017122
BRW-CT08-01 Blade Rotary Wheel	S017110
SC-CT50-01 Side Cover	S017108
CC-37 Transit Case	S017077
SPA-CT-08-10 Spacer	S017011

CT16 Fiber Cleaver



The CT16 fiber cleaver from Fujikura was designed for FTTH or other space-constrained applications where ergonomics and durability are key. It is compact, can be operated ambidextrously, and features a unique fiber adapter, allowing users to cleave two bare fibers simultaneously when paired with the dual fiber stripper, the SS-05. The scrap collector and fiber adapter side can be swapped by the user for left or right-handed reference, or as environmental constraints dictate. Furthermore, the thumbwheel on the bottom of the cleaver is utilized for blade rotations as opposed to previous tedious processes to rotate a cleaver blade. The top lever opens past vertical allowing for easy viewing, cleaning, and adjustment of the cleave length. The blade is retracted when the top lever is opened and the blade activates to score the fiber when it is closed, making this a true one-step cleaver.

FEATURES

- Dual fiber adapter plate for single or two fiber cleaving
- Ambidextrous operation available
- Field replaceable fiber clamp pads and cleaver blade
- Shock resistant for drops up to 30" in any of six different orientations
- Compact form factor and tool-less blade rotations

DESCRIPTION	AFL NO.
CT16 Fiber Cleaver includes: FDB-06 scrap collector, AD-16B fiber adapter, HEX-01 hex wrench (1.5 mm), M-CT16-E instruction manual, CC-46 carrying case	S018330
CLAMP-S35A Sheath Clamps (Standard) – 45S	S018464
FDB-06 Scrap Collector	S018329
CB-09 Replacement Cleaver Blade	S018335
ARM-CT16-01 Replacement Fiber Clamp Pads	S018373
AD-16A Fiber Adapter (up to 900um coating)	S018328
AD-16B Fiber Adapter (up to 3.0mm jacket)	S018331
CC-46 Carrying Case	S018374

Splicer V-groove Cleaning Kit



Splicer V-groove Cleaning Refill Kit



CS-1 Cotton Swabs

Today's splicing equipment is fast, efficient, and requires minimal maintenance due to advances in splicing technology. However, contamination in the V-groove of the splicer is still a primary source of trouble for the splicing technician. This is especially problematic when splicing with a fixed V-groove fusion splicer. Environmental contamination, such as dust, dirt and fiber coating debris, as well as the silica deposits generated during the fusion process eventually find their way to the surface of the v-groove. This contamination will offset the fibers and degrade performance. To help control this problem, a disciplined cleaning regimen and specific tooling is required to ensure the splice is right the first time.

To solve cleaning needs, AFL offers the Splicer V-groove Cleaning Kit. This product integrates eight components into an affordable and effective inspection and cleaning solution for any fusion splicer. Small and lightweight, it fits easily into the Fujikura splicer transit case or it can be carried separately in its own carrying case.

KIT INCLUDES

- Scrubber Brush with stiff tapered nylon bristles
- Sweeper Brush with soft nylon bristles
- Eye Loupe with 3X to 12X magnification
- LED Pen Light with momentary or constant-on switching
- Cleaning Fluid that is nonflammable and environmentally safe
- Lint-free Cotton Swabs
- Instruction Sheet with illustrations
- Canvas Carrying Case

ORDERING INFORMATION

DESCRIPTION	AFL NO.
Splicer V-groove Cleaning Kit	S014397
Splicer V-groove Cleaning Refill Kit – includes One can of FCC2 Cleaning Fluid, One Scrubber Brush, One Sweeper Brush and 10 packs CS-1 Cotton Swabs (250 swabs)	S014416
CS-1 Cotton Swabs (pack of 25 swabs)	S003719

Fiber Optic Cleaning Solutions

AFL fiber optic cleaning products enable network technicians and other staff to safely and effectively clean fiber optic connectors, dramatically decreasing network outage and downtime. For details, see our “Fiber Optic Cleaning and Inspection” catalog or visit www.AFLglobal.com.



DESCRIPTION	AFL NO.
One-Click Cleaner SC Pro (775+ cleans)	8500-05-PRO-SC
One-Click Cleaner LC Pro (775+ cleans)	8500-05-PRO-LC
One-Click Cleaner SC, ST, FC (500+ cleans)	8500-05-0001MZ
One-Click Cleaner MU/LC (500+ cleans)	8500-05-0002MZ
One-Click Cleaner ODC (outdoor connector)	8500-05-0004MZ
One-Click Cleaner Mini-100 SC, ST, FC (100+ cleans)	8500-05-0005MZ
One-Click Cleaner Mini-100 MU/LC (100+ cleans)	8500-05-0006MZ
One-Click Cleaner Ultra 2.5 SC, ST, FC (enlarged cleaning)	8500-05-0007MZ
One-Click Cleaner D-LC, Duplex LC (500+ cleans X2)	8500-05-0008MZ
One-Click Cleaner Mini-500 SC, ST, FC (500 cleans)	8500-05-0009MZ
One-Click Cleaner Mini-500 MU/LC (500 cleans)	8500-05-0010MZ
One-Click Cleaner SC, ST, FC (box of 5 units)	8500-05-0021MZ
One-Click Cleaner MU/LC (box of 5 units)	8500-05-0022MZ
One-Click Cleaner Mini-100 SC, ST, FC (box of 5 units)	8500-05-0025MZ
One-Click Cleaner Mini-100 MU/LC (box of 5 units)	8500-05-0026MZ
One-Click Cleaner Ultra 2.5 SC, ST, FC (box of 5 units)	8500-05-0027MZ
One-Click Cleaner MPO (500 cleans)	8500-05-0030MZ
Cletop –SB with White Tape	8500-10-0016MZ
Replacement Tape Type S - White	8500-10-0017MZ

**Please Contact your AFL Sales Rep for information
about any of our other products or services.**

TEST & INSPECTION



FOCIS Lightning[®]2 and
FOCIS Flex Fiber Optic
Connector Inspection System



FlexScan[®] OTDR



OPM5 Optical Power Meter
and OLS4 Light Source

FIBER INSIDE PLANT



FUSEConnect[®]
MPO, FC, SC, LC and ST Connectors



Poli-MOD[®]
Patch and Splice Module



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