FUSION SPLICING SYSTEMS

Fusion Splicers, Cleavers, Software, Tools and Supplies

Product Catalog

AFL is a value-added supplier. We strive to provide more than just a product and look far beyond the current sale in an effort to build a long term, business relationship with our customers. The Fusion Splicing team provides fast, dependable support after the sale centered on service, trust, and friendship in support of customer needs.

Some of the positive, proactive things we do include:

- Free 24/7 technical support for all AFL customers - 800-866-3602
- Free software upgrades that enhance equipment performance and customer satisfaction
- Free product demonstrations for guiding customers and understanding their needs
- Free training videos to enhance the customer learning experience
- Engineering support to assist with special splicing applications
- High quality repair service using only Fujikura approved parts and repair techniques
- Best in the industry repair turnaround time to minimize customer down time
- Optional expedited repair service for special time critical customer events
- Loaner equipment for special case circumstances, when available
- Large supply of inventory, enabling short lead-times for critical need products
- A staff dedicated to serving the customer's needs quickly and efficiently

Thank you for choosing AFL and Fujikura fusion splicing products!

Please visit us online at ww.AFLglobal.com.

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Field Fusion Splicing Equipment

Specialty Fusion Splicing Equipment

Fujikura 100S Fusion Splicer

Built for the demands of modern fiber installation, the Fujikura 100S Fusion Splicer combines intelligent automation with user-first design to streamline daily splicing tasks. From faster fiber preparation and alignment to smart adjustments that eliminate manual guesswork, the 100S helps technicians work more efficiently and with greater confidence.

Its customizable interface adapts to the user, not the other way around, while robust engineering ensures consistent, high-quality splices in any environment. Whether you're on a tight schedule or tackling complex jobs, the 100S is designed to save time, reduce errors, and support peak performance in the field.

Intuitive Operation: Large LCD screen makes splicing as easy as using a smartphone.

Dual Fiber Preparation: The Fujikura 100S splicer supports dual fiber loading, allowing technicians to place two prepared fibers into the machine simultaneously. This can reduce splicing time by up to 30%!

Automated fiber-length adjustments: The 100S Fusion Splicer ensures optimal fiber positioning automatically for a perfect splice every time. If there's too little fiber in front of the electrodes, the splicer automatically pulls more through; if there's too much, it retracts the excess.

Splice Coach: For seasoned technicians, the built-in Splice Coach will help guide you to learn new techniques, improving your productivity and reinforcing splicing best practices.

Simple Fiber Guide: A built-in embedded fiber guide makes fiber loading faster and more accurate by allowing you to simply place the fiber into the guide while the splicer handles alignment.

Custom Splicer Setup: The 100S features a personalized splice settings menu that uses visual diagrams and detailed explanations to show how each parameter affects splicer components for confident customization.

GPS Tracking: The 100S features Location-Based Locking, which allows technicians to define a GPS-based Secure Zone where the device remains fully operational. If moved outside this designated area, the splicer automatically locks to prevent unauthorized use or theft. It also records the location of each splice for comprehensive tracking.

USB Power and Recharging: The 100S supports fast USB-C recharging (4-6 hrs.) and external battery support when the job runs longer than expected.

Features

- Automated wind protector, tube heater and splice operation
- Dual fiber loading reduces preparation time
- Embedded fiber guide for accurate, error-free fiber loading
- Built-in Splice Coach virtual mentor to improve productivity
- Custom Splicer Setup menus with new UI and visual diagrams
- GPS splice stamp for location record keeping
- Location Based Locking prevent unauthorized use or theft
- USB-C charging and data port
- Multi-function transit case with integrated workstation

Applications

- Distribution fiber repair
- Long-haul network installation
- Field termination with splice-on connectors
- Access network installation
- Fanout kits, pigtails and splice cassettes
- OSP cable installation and repair
- Optical modules – splitters, couplers, MUXs, EDFAs and attenuators

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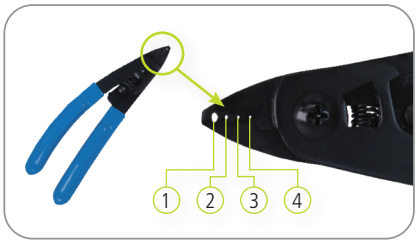
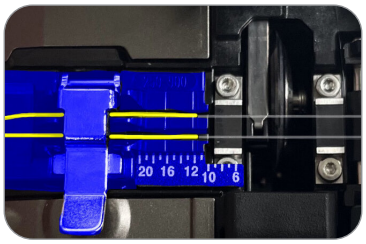
Fujikura 100S Fusion Splicer

Features

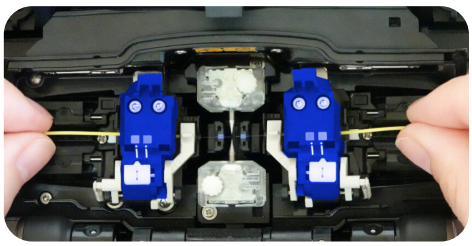


Fiber Stripper SS-05

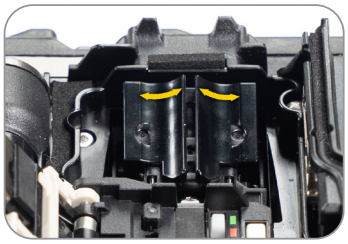
1. For 2.3 mm
2. For 900 µm
3. For 250 µm
4. For 250 µm



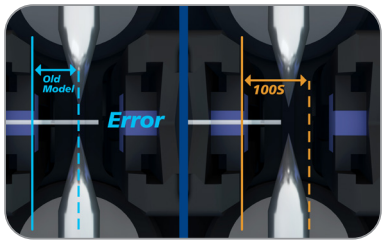
Dual Cleaving



Dual Fiber Loading



Fiber Placement Guide



Expanded Fiber Setting

Ordering Information

Description	AFL No.
Fujikura 100S Fusion Splicer (machine only) **Includes:** ADC-22 AC Adapter, ACC-19 AC Cord, BTR-19 Battery, ELCT2-16C Spare Electrodes (pair), Sheath Clamps, SP-05 Fiber Holder Set Plates, USB-02 Cable, Alcohol Dispenser, Splicer Carrying Strap, Quick Reference Guide, TS-04A Tripod Screw, Work Tray J-Plate, SS05 single fiber stripper, CC-48 Transit Case with Carrying Strap and Two-Year Warranty	S018656
Fujikura 100S Standard Fusion Splicer Kit (with cleaver) **Includes:** CT60 Cleaver, ADC-22 AC Adapter, ACC-19 AC Cord, BTR-19 Battery, ELCT2-16C Spare Electrodes (pair), Sheath Clamps, SP-05 Fiber Holder Set Plates, USB-02 Cable, Alcohol Dispenser, Splicer Carrying Strap, Quick Reference Guide, TS-04A Tripod Screw, Work Tray J-Plate, SS05 single fiber stripper, CC-48 Transit Case with Carrying Strap and Two-Year Warranty	S018655
Fujikura 100S Fusion Splicer without Bluetooth (machine only) **Includes:** ADC-22 AC Adapter, BTR-19 Battery, ACC-19 AC Cord, ELCT2-16C Spare Electrodes (pair), Sheath Clamps, SP-05 Fiber Holder Set Plates, USB-02 Cable, Alcohol Dispenser, Splicer Carrying Strap, Quick Reference Guide, TS-03 Tripod Screw, Work Tray J-Plate, SS03 Single Fiber Stripper, CC39 Transit Case with Carrying Strap and Two-Year Warranty	S018657
Fujikura SpliceReady 100S Splicer Kit includes: Fujikura 100S Standard Kit (S0), FP-60 60 mm (single splice) protection sleeve (pack of 100), FCC2 fiber cleaning fluid (3 oz.), AFL WFW wipes mini tub (90 wipes), Kevlar scissors, FH-70-900 fiber holders (pair), FH-70-250 fiber holders, Mechanical Splice Fiber Holder (250 µm), Sharpie, Splicer V-groove cleaning kit, FH-FC-900 fiber holder (900 µm cable)	S018660
One-Year Extended Warranty	S012996
Two-Year Extended Warranty	S013000

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Fujikura 100S Fusion Splicer

Recommended Products for the 100S

Description	AFL No.
Cleavers	
CT-60 Cleaver	S018654
Fiber Holders (pair)	
FH-70-250 (250 µm coated fiber)	S017111
FH-70-900 (900 µm jacketed fiber)	S017113
FH-70-160 (160 µm coated fiber)	S017095
FH-70-200 (200 µm coated fiber)	S017711
FH-60-LT900 (Loose buffer 900 µm fiber)	S015181
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 (single holder)	S014704
Power Supply Options and Equipment	
ADC-22 AC Adapter	S018666
ACC-19 AC Power Cord	S018667
BTR-19 Battery	S018670
DCC-20 Power Cord (connects AC Adapter to cigarette lighter socket)	S017527
DCC-21 Power Cord (connects AC Adapter to power source via alligator clips)	S017528

Description	AFL No.
Miscellaneous	
SS05 Single fiber stripper (3 hole)	S018327
ELCT2-16C Electrodes	S018669
SP-05 Fiber Holder Set Plates	S018671
Portable Tripod Worktray Kit (see product profile for more detail)	S014773
ASW-02 Splicing Workstation (see product profile for more detail)	S010532
WT-11R Transit Case - Work Tray Right (100 Series)	S018674
WT-11L Transit Case - Work Tray Left (100 Series)	S018673
JP-11 Work Tray J-Plate	S018675
JP-12 J-Plate (Cooling tray attaches to splicer)	S018681
TS-04 Tripod Screw (100 Series)	S018677
ST-04 Fusion Splicer Carrying Case Strap	S018676
CLAMP-DC-12 (Drop cable clamp for work tray)	S017550
USB-02 Cable	S018668
CC-48 Transit Case	S018672
Splicer V-Groove Cleaning Kit	S014397
ST-04 Case and Work Tray Strap	S018676

Specifications

Parameter		Value
Fiber Alignment Method		Active core alignment
Fiber Count Can Be Spliced		Single fiber
Applicable Fiber	Fiber Type	Single-mode optical fiber
		Multimode optical fiber
	Cladding Diameter	80 to 150 µm
Applicable Coating	Sheath Clamp	Coating dia.: Max. 3,000 µm Cleave length: 5 to 16 mm
Fiber Splice Performance	Splice Loss	ITU-T G.652: Avg. 0.02 dB
		ITU-T G.651: Avg. 0.01 dB
		ITU-T G.653: Avg. 0.04 dB
		ITU-T G.654: Avg. 0.04 dB
		ITU-T G.655: Avg. 0.04 dB
		ITU-T G.657: Avg. 0.02 dB
	Splice Time	SM FAST mode: Avg. 7 to 9 sec.; SM AUTO mode: Avg. 11 to 13 sec.; AUTO mode: Avg. 14 to 16 sec.
Applicable Protection Sleeve	Sleeve Type Sleeve Length Sleeve Dia.	Heat-shrinkable sleeve Max. 66 mm Max. 6.0 mm before shrinking
Sleeve Heat Performance	Heat Time	60 mm slim mode: Avg. 8 to 10 sec.
		60 mm mode: Avg. 13 to 15 sec.
Fiber Tensile Test Force		Approx. 2.0 N
Electrode Life		Approx. 6,000 splices
Physical Description	Dimensions W Dimensions D Dimensions H Weight	Approx.155 mm without projection Approx.176 mm without projection Approx.171 mm without projection Approx. 2.8 kg including battery

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Fujikura 100S Fusion Splicer

Specifications (cont.)

Parameter		Value
Environmental Condition	Temperature	Operate: -10 to 50°C
		Storage: -40 to 80°C
	Humidity	Operate: 0 to 95% RH non-condensing
		Storage: 0 to 95% RH non-condensing
	Altitude	Max. 5,000 m
AC Adaptor	Input	AC100 to 240 V, 50/60 Hz, Max. 1.5 A
Battery Pack	Type	Rechargeable Lithium Ion
	Output	Approx. DC14.4V / 6,380 mAh
	Capacity	Approx. 300 splice and heat cycles
	Temperature	Operate: -10 to 50°C
		Recharge: 0 to 40°C
		Storage < 1 year: -20 to 20°C; < 1 month: -20 to 50°C
	Battery Life	Approx. 500 recharge cycles
	Recharge Time	Approx. 4-6 hours from empty
Display	LCD Monitor Magnification	TFT 5 inches with touch screen 320x
Illumination	V-Grooves	LED lamp
Interface	PC External Led Lamp Ribbon Stripper Wireless	USB2.0 Type C (USB PD compatible) USB2.0 A type, Approx. DC5V, 500 mA Mini DIN 6 pin, DC12V, Max. 1A Bluetooth 5.2 LE
Data Storage	Splice Mode	100 splice modes
	Heat Mode	30 heat modes
	Splice Result	20,000 splices
	Splice Image	100 images
Screw Hole For Tripod		1/4-20 UNC
Other Features	Automatic Functions	Splice mode select by fiber type analysis – Function Control and Discharge power calibration
		Wind protector: open/close
		Sheath clamp: open
		Heater lid: open/close
		Heater clamp: open/close
	Reference Guide	Video and PDF file stored in splicer
	Sheath Clamp	Easy sleeve positioning clamp Close with fiber set (optional) Guild for fiber loading (optional)
	Electrode	Replaceable without tool
	GPS	Document splice location into memory Security disable feature for out of region operation • No tracking function

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Fujikura 45S Fusion Splicer

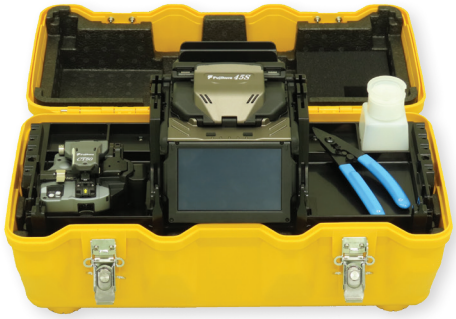
The 45S cladding alignment fusion splicer is changing the way people splice fiber in small to mid-fiber count applications. This Fujikura splicer debuts a landmark improvement to the fusion splicing process with the ability to prepare and load both fibers simultaneously. The hand-held fiber coating stripper, 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.

Furthermore, the 45S sheath clamps are mechanically linked to the wind protector, so after splicing is finished, opening the wind protector also opens both sheath clamps for quick sleeve positioning and transfer to the tube heater. The 45S tube heater shrinks sleeves much faster than its predecessor with a nominal ~20 second heat time for 60 mm sleeves down from ~26 seconds. The simultaneous fiber preparation capability, automated sheath clamp opening, and a faster tube heater, combine to lower the overall fusion splicing cycle time by ~30% or more.

The 45S continues to benefit the user experience with improvements to fiber placement, battery access, and machine ergonomics. Previously, when using sheath clamps, if the cleaved fiber was accidentally set past the electrode centerline, the machine would send an error and require manual intervention. The 45S will now accept this mistake and reverse the fiber to correct position automatically. With a cube form factor, the 45S is easily transported and operated in space-constrained environments. With the AFL Tote Solution installed, the 45S transit case securely integrates with Milwaukee's PACKOUT™ system, offering faster transport, stability, and time-savings for contractors and technicians. The adjustable screen can alleviate glare from the sun and adjust with abnormal splicer positions confronted in challenging splice locations.

Backed by the best service team in the industry, the Fujikura 45S is the ideal splicer to use when portability, ruggedness, speed, and reliability are needed. If you'd like to see the 45S capabilities first-hand, please contact us at 1-800-235-3423 to arrange a product demonstration at your earliest convenience.

45S



45S Standard Kit

45S on Tripod

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

Applications

- 5G Small Cell Site
- FTTx drops and terminations
- MDF/IDF splices and terminations
- Rural fiber deployments and restorations

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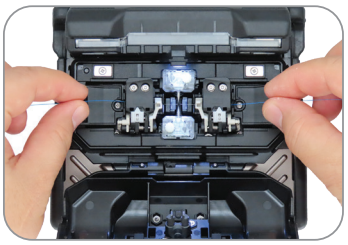
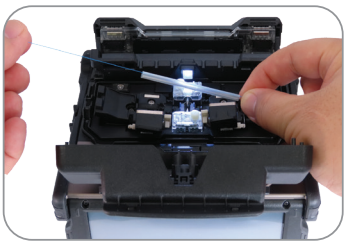
Fujikura 45S Fusion Splicer

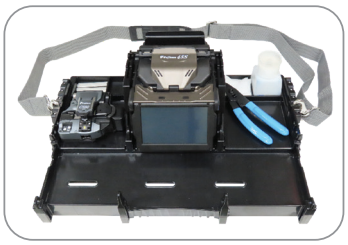
Features



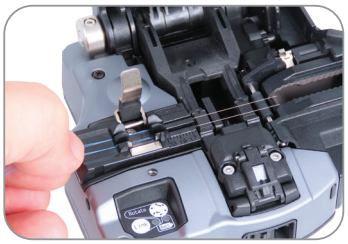
Simultaneous Fiber Loading



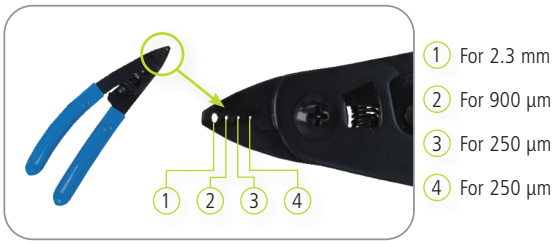
Sleeve Positioning



Work Tray with Neck Strap



CT-16A Adapter Plate on CT-50



Fiber stripper SS-05

Ordering Information

DESCRIPTION	AFL NO.
Fujikura 45S Standard Kit includes: CT-50 cleaver, SS-05 single 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 Kit without Cleaver includes: SS-05 single 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
Fujikura SpliceReady 45S Splicer Kit includes: Fujikura 45S Standard Kit (S018318), FP-60 60 mm (single splice) protection sleeve (pack of 100), FCC2 fiber cleaning fluid (3 oz.), AFL WFW wipes mini tub (90 wipes), One-Click Cleaner® MU/LC, One-Click Cleaner SC/FC/ST, Clamp-35B loose buffer sheath clamp, Kevlar scissors, Mechanical Splice Fiber Holder (250 µm), Sharpie pen, FH-FC-900 (900 µm cable)	S018581
One-Year Extended Warranty	S012996
Two-Year Extended Warranty	S013000

Recommended Accessories

DESCRIPTION	AFL NO.
Cleavers and Strippers	
CT-50 Fiber Cleaver	S017030
CT-16 Fiber Cleaver	S018330
SS-05 Dual Fiber Stripper	S018327
Fiber Holders	
CLAMP-S35A Standard Sheath Clamp	S018464
CLAMP-S35B Loose Buffer Tube Clamp	S018333
FH-70-250 (250 µm single fiber)	S017111
FH-70-200 (200 µm single fiber)	S017711
FH-70-900 Fiber Holders (900 µm single fiber)	S017113
FH-60-LT900 (900 µm loose buffer tube)	S015181
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.
Power Supply Options	
BTR-17 Battery Pack	S018324
ADC-21 AC Adapter	S018168
ACC-09 Power Cord	S014390
Miscellaneous	
WT-10 Work Tray	S018336
TS-03 Tripod Screw	S017524
ST-03 Carrying Case and Work Tray Strap	S017549
CLAMP-DC-12 drop cable clamp on work tray	S017550
ELCT2-16B Electrodes	S017103
CC-45 Transit Case	S018326
Splicer V-Groove Cleaning Kit	S014397
USB-01 USB Cable	S014777
SP-04 Fiber Holder Set Plates	S018332
AD-16A Adapter Plate (CT-50 and CT-16 up to 900 um)	S018328
Portable Tripod Workstation (see web listing for more detail)	S014773
AFL Tote Solution - Cleat Installation Service	S018623

Fujikura 45S Fusion Splicer

Specifications

PARAMETER		VALUE
Fiber alignment method		Active cladding alignment
Fiber count can be spliced		Single fiber
Applicable fiber	Fiber type	Single-mode optical fiber Multimode optical fiber
	Cladding dia.	Approx. 125 µm
Applicable coating	Sheath Clamp	Coating diameter: Max. 3,000 µm Cleave length: 5 to 16 mm *1
	Fiber Holder	Coating diameter: 160 µm – 3,000 µm based on available fiber holder options Cleave length: Approx. 10 mm
Fiber splice performance	Splice loss *2	ITU-T G.652: Avg. 0.03dB ITU-T G.651: Avg. 0.01dB ITU-T G.653: Avg. 0.05dB ITU-T G.655: Avg. 0.05dB ITU-T G.657: Avg. 0.03dB
	Splicing time *3	SM FAST mode: Avg. 6 to 7 sec. SM AUTO mode: Avg. 8 to 10 sec.
Applicable protection sleeve	Sleeve type Sleeve length Sleeve dia.	Heat shrinkable sleeve Max. 66 mm Max. 6.0 mm before shrinking
Sleeve heat performance	Heat time *4	60 mm mode: Avg. 15 to 22 sec. 60 mm slim mode: Avg. 15 to 17sec.
Fiber tensile test force		Approx. 2.0 N
Electrode life *5		Approx. 6,000 splices
Physical description	Dimensions W Dimensions D Dimensions H Weight	Approx.131 mm without projection Approx.123 mm without projection Approx.121 mm without projection Approx. 1.4 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. 5,000 m
AC adaptor	Input Output	AC100 to 240V, 50/60Hz, Max. 1A Approx. DC 19V, Max. 2.1A
Battery pack	Type	Rechargeable Lithium Ion
	Output	Approx. DC14.4V / 3,190mAh
	Capacity *6	60 mm heat mode: Approx. 200 splice & heat cycles 60 mm slim heat mode: Approx. 230 splice & heat cycles
	Temperature	Operate: -10 to 50°C Recharge : 0 to 40°C Short term storage of 30 days: -20 to 50°C Long term storage: -20 to 30°C
	Battery life *7	Approx. 500 recharge cycles
Display	LCD monitor Magnification	TFT 4.95 inches with touch screen Approx. 132 to 300X
Illumination	V-grooves	LED lamp
Interface	PC External LED lamp Wireless *8	USB2.0 MINI B type USB 2.0 A type Approx. DC5V, 500mA Bluetooth® 5.2

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Fujikura 45S Fusion Splicer

Specifications

PARAMETER		VALUE
Data storage	Splice mode	100 splice modes
	Heat mode	30 heat modes
	Splice result	20,000 splices
	Fiber image	100 images
Screw hole for tripod		1/4-20UNC
Other features	Automatic functions	Fusion control
		Blade management and control
		Splice start
		Heater start
	Reference guide	PDF file stored on splicer
	Sheath clamp	Open with/without wind protector
		Close when setting fiber
		Easy sleeve positioning design
	Electrode	Tool-less replacement
	PC Software	Splicer firmware update via internet
		Parameter Upload and download

*1 Cleave length range depending on fiber type
5 – 16 mm: 125 µm cladding dia. And 250 µm coating dia.
10 – 16 mm: 125 µm cladding dia. And 400 or 900 µm coating dia.

*2 Measured with cut-back method relevant to ITU-T and IEC standard after splicing Fujikura identical fibers. The average splice loss changes depending on the environmental condition and fiber characteristics.

*3 Measured at room temperature. The definition of splice time is from the fiber image appearing on the LCD monitor to the estimated splice loss. The average splice time changes depending on the environmental conditions, fiber type, and fiber characteristics.

*4 Measured at room temperature with the AC adapter. The heat time is defined from the start beep sound to the finish beep sound. The average heat time changes depending on the environmental conditions, sleeve type, and battery pack condition. In addition, since the heating operation is constantly optimized, the average heating time changes depending on the usage conditions of the fusion splicer.

*5 The electrode life changes depending on the environmental conditions, fiber type, and splice modes used.

*6 Test Conditions
Splice and heat time: 1 minute cycle
Using the splicer power save settings, subject to our testing condition
Using a new battery
Room temperature
The battery capacity changes when testing in different conditions than above

*7 The battery capacity decreases to half after approx. 500 discharge and recharge cycles. The battery life is shortened further when using outside of the storage and operating temperature ranges, or if completely discharged when stored for an extended period without recharging.

*8 Bluetooth mark and logos are registered trademarks of Bluetooth SIG, Inc.

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Fujikura 35S Fusion Splicer

The 35S 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-16 cleaver adapter plate which can likewise accommodate two bare fibers for cleaving. After preparation, the 35S 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 a one-handed operation.

Furthermore, the 35S sheath clamps are mechanically linked to the wind protector, so after splicing is finished, opening the wind protector also opens both sheath clamps for quick sleeve positioning and transfer to the tube heater. The 35S tube heater shrinks sleeves much faster than its predecessor with a nominal ~20 second heat time for 60 mm sleeves down from ~26 seconds. The simultaneous fiber preparation capability, automated sheath clamp opening, and a faster tube heater, combine to lower the overall fusion splicing cycle time by ~30% or more.

The 35S continues to benefit the user experience with improvements to fiber placement, battery access, and machine ergonomics. Previously, when using sheath clamps, if the cleaved fiber was accidentally set past the electrode centerline, the machine would send an error and require manual intervention. The 35S will now accept this mistake and reverse the fiber to correct position automatically. With a cube form factor, the 35S is easily transported and operated in space-constrained environments. The adjustable screen can alleviate glare from the sun and adjust with abnormal splicer positions confronted in challenging splice locations.

Backed by the best service team in the industry, the Fujikura 35S is the ideal splicer to use when portability, ruggedness, speed, and reliability are needed. If you'd like to see the 35S capabilities first-hand, please contact us at 1-800-235-3423 to arrange a product demonstration at your earliest convenience.

35S

35S Standard Kit

CT-16 with AD-16A Adapter

Features

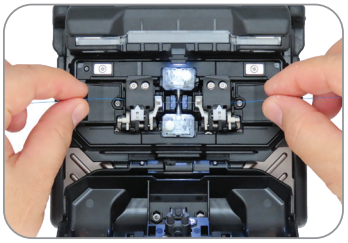
- Simultaneous fiber preparation with patented sheath clamp design.
- Sheath clamps automatically opened with the wind protector.
- Automatic fiber placement correction.
- Active Fusion Control for arc optimization with every splice.
- Easy-access battery, screen position adjustments, and ergonomic adaptations.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

Applications

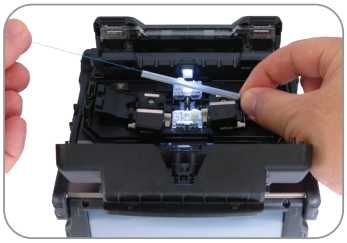
- 5G Small Cell Site
- FTTx drops and terminations
- MDF/IDF splices and terminations
- Rural fiber deployments and restorations

Fujikura 35S Fusion Splicer

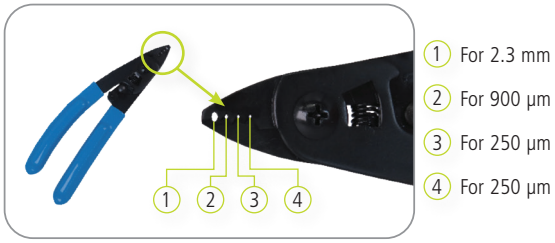
Features



Simultaneous Fiber Loading



Sleeve Positioning



Fiber stripper SS-05

Ordering Information

Description	AFL No.
Fujikura 35S Standard Kit **Includes:** CT-16 cleaver, SS-05 single 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, CC-44 Transit Case, 1 year factory warranty and instruction manual downloaded from splicer	S018314
Fujikura 35S Kit without Cleaver **Includes:** SS-05 single 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, 1 year factory warranty and instruction manual downloaded from splicer	S018316
One Year Extended Warranty	S012996
Two Year Extended Warranty	S013000

Recommended Accessories

Description	AFL No.
Cleavers and Strippers	
CT-50 Fiber Cleaver	S017030
CT-16 Fiber Cleaver	S018330
SS-05 Dual Fiber Stripper	S018327
Fiber Holders	
CLAMP-S35B Loose Buffer Sheath Clamp	S018333
FH-70-250 (250 µm single fiber)	S017111
FH-70-200 (200 µm single fiber)	S017711
FH-70-900 Fiber Holders (900 µm single fiber)	S017113
FH-60-LT900 (900 µm loose buffer tube)	S015181
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.
Power Supply Options	
BTR-17 Battery Pack	S018324
ADC-21 AC Adapter	S018168
ACC-09 Power Cord	S014390
Miscellaneous	
TS-03 Tripod Screw	S017524
ELCT2-16B Electrodes	S017103
CC-44 Transit Case	S018325
Splicer V-Groove Cleaning Kit	S014397
USB-01 USB Cable	S014777
SP-04 Fiber Holder Set Plates	S018332
AD-16A Adapter Plate (CT-50 & CT-16 up to 900um)	S018328
AD-16B Adapter Plate (CT-50 & CT-16 up to 3mm)	S018331
CB-09 Replacement Blade for CT-16 Cleaver	S018335
Portable Tripod Workstation (see web listing for more detail)	S014773

Fujikura 35S Fusion Splicer

Specifications

Parameter		Value
Fiber alignment method		Active cladding alignment
Fiber count can be spliced		Single fiber
Applicable fiber	Fiber type	Single mode optical fiber
		Multi mode optical fiber
	Cladding dia.	Approx. 125 µm
Applicable coating	Sheath Clamp	Coating diameter: Max. 3,000 µm
		Cleave length: 5 to 16 mm [*1]
	Fiber Holder	Coating diameter: 160 µm – 3,000 µm based on available fiber holder options
		Cleave length: Approx. 10 mm
Fiber splice performance	Splice loss [*2]	ITU-T G.652: Avg. 0.03dB
		ITU-T G.651: Avg. 0.01dB
		ITU-T G.653: Avg. 0.05dB
		ITU-T G.655: Avg. 0.05dB
		ITU-T G.657: Avg. 0.03dB
	Splicing time[*3]	SM FAST mode: Avg. 6 to 7 sec.
		SM AUTO mode: Avg. 8 to 10sec.
Applicable protection sleeve	Sleeve type	Heat shrinkable sleeve
	Sleeve length	Max. 66 mm
	Sleeve dia.	Max. 6.0 mm before shrinking
Sleeve heat performance	Heat time[*4]	60 mm mode: Avg. 15 to 22sec.
		60 mm slim mode: Avg. 15 to 17sec.
Fiber tensile test force		Approx. 2.0 N
Electrode life[*5]		Approx. 6,000 splices
Physical description	Dimensions W	Approx.131 mm without projection
	Dimensions D	Approx.123 mm without projection
	Dimensions H	Approx.121 mm without projection
	Weight	Approx. 1.4 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. 5,000 m
AC adaptor	Input	AC100 to 240V, 50/60Hz, Max. 1A
	Output	Approx. DC 19V, Max. 2.1A
Battery pack	Type	Rechargeable Lithium Ion
	Output	Approx. DC14.4V / 3,190mAh
	Capacity[*6]	60 mm heat mode: Approx. 200 splice & heat cycles
		60 mm slim heat mode: Approx. 230 splice & heat cycles
	Temperature	Operate: -10 to 50°C
		Recharge : 0 to 40°C
		Short term storage of 30 days: -20 to 50°C
		Long term storage: -20 to 30°C
	Battery life[*7]	Approx. 500 recharge cycles
Display	LCD monitor	TFT 4.95 inches with touch screen
	Magnification	Approx. 132 to 300X
Illumination	V-grooves	LED lamp
Interface	PC	USB 2.0 MINI B type
		USB 2.0 A type
	External LED lamp	Approx. DC5V, 500mA

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Fujikura 35S Fusion Splicer

Specifications

Parameter		Value
Data storage	Splice mode	100 splice modes
	Heat mode	30 heat modes
	Splice result	20,000 splices
	Fiber image	100 images
Other features	Automatic functions	Fusion control Splice start Heater start
	Reference guide	PDF file stored on splicer
	Sheath clamp	Open with/without wind protector Close when setting fiber Easy sleeve positioning design
	Electrode	Tool-less replacement
	PC Software	Splicer firmware update via internet Parameter Upload and download

*1 Cleave length range depending on fiber type
5 – 16 mm: 125 µm cladding dia. And 250 µm coating dia.
10 – 16 mm: 125 µm cladding dia. And 400 or 900 µm coating dia.

*2 Measured with cut-back method relevant to ITU-T and IEC standard after splicing Fujikura identical fibers. The average splice loss changes depending on the environmental condition and fiber characteristics.

*3 Measured at room temperature. The definition of splice time is from the fiber image appearing on the LCD monitor to the estimated splice loss. The average splice time changes depending on the environmental conditions, fiber type, and fiber characteristics.

*4 Measured at room temperature with the AC adapter. The heat time is defined from the start beep sound to the finish beep sound. The average heat time changes depending on the environmental conditions, sleeve type, and battery pack condition. In addition, since the heating operation is constantly optimized, the average heating time changes depending on the usage conditions of the fusion splicer.

*5 The electrode life changes depending on the environmental conditions, fiber type, and splice modes used.

*6 Test Conditions
Splice and heat time: 1 minute cycle
Using the splicer power save settings, subject to our testing condition
Using a new battery
Room temperature
The battery capacity changes when testing in different conditions than above

*7 The battery capacity decreases to half after approx. 500 discharge and recharge cycles. The battery life is shortened further when using outside of the storage and operating temperature ranges, or if completely discharged when stored for an extended period without recharging.

AFL Splice-on-Connector Tool-Kit

AFL's Splice-on-Connector Tool-Kit is the advanced solution for 900 µm fiber splicing on connectors. This Tool-Kit is exclusively used for 900 µm coating diameter, splice-on-connector applications but can be utilized for splicing of fiber-to-fiber of coating diameters ranging from 160 µm to 3 mm. The simultaneous fiber preparation capability is targeted to 250 µm coating diameters.

All-in-one cost-saving kit: Contains the light weight, cost-effective, time saving and strong cladding alignment Fujikura 35S Fusion Splicer, the CT-16 Cleaver, best in line One-Click® cleaners and preparation accessories such as Kevlar sheers, wipes, cleaning solution and many more.

Significant splicing cycle time reduction: AFL's Fujikura 35S cladding alignment fusion splicer excels in small to mid-fiber count applications, featuring simultaneous fiber prep, sheath clamp automation, automated wind protector, and faster tube oven heating. This reduces fusion splicing cycle time by ~30% or more.

The hand-held fiber coating stripper is capable of stripping two 250 µm coated fibers in one pass. AFL's CT-16 cleaver is best known for its durable construction, lightweight form factor, easily replaceable cleaver blades and one-click cleaver action.

Pro-level cleaning supplies: The cleaning supplies provided in this kit are top-of-the-line Fujikura One-Click cleaners for both LC and SC style needs, FCC2 Enhanced Fiber Connector Cleaner and Preparation Fluid for easy and safe cleaning, and lint-free cleaning wipes.

Ergonomic and user-friendly: Keeping users in mind, AFL's Fujikura splicer is designed ergonomically for the best user experience. It features an adjustable touchscreen mirror to work in abnormal positions, a compact size suitable for small tight spaces, and automatic fiber placement error adjustments. The machine can adjust the fiber automatically over the v-grooves without manual intervention. Additionally, it offers easy access to the battery with the ability to swap it when needed

Backed by the best service team in the industry, the Fujikura 35S is the ideal splicer to use when portability, ruggedness, speed, and reliability are needed. If you'd like to see the AFL Splice-on-Connector Tool-Kit capabilities first-hand, please contact us at 1-800-235-3423 to arrange a product demonstration at your earliest convenience.

Features

- Comprehensive toolkit for 900 µm splice-on-connector (SOC) termination and cleaning
- Novel simultaneous fiber preparation feature
- Automatic sheath clamp and wind protector control
- Compact, lightweight and cube form factor splicer
- Fully ruggedized for shock, moisture, and dust resistance
- Pro-level cleaning supplies

Applications

- Field termination with splice-on connectors
- 5G Small Cell Site
- FTTx and MDU drops and terminations
- MDF/IDF splices and terminations
- Rural fiber deployments and restoration

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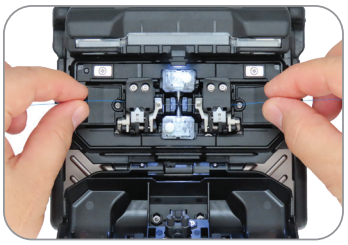
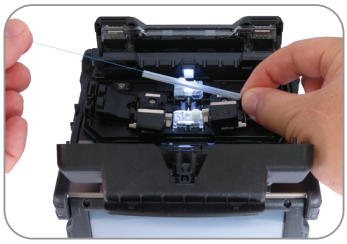
AFL Splice-on-Connector Tool-Kit

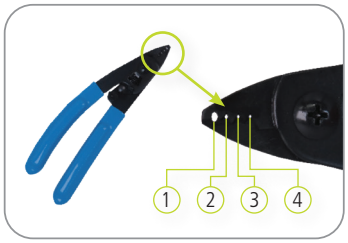
Features



Simultaneous Fiber Loading



Sleeve Positioning



1 For 2.3 mm
2 For 900 µm
3 For 250 µm
4 For 250 µm

Fiber stripper SS-05

Ordering Information

Description	AFL NO.
Includes: Fujikura 35S Fusion Splicer, CT-16 Cleaver (1), SS-05 Dual Fiber Stripper (1), 1 pair each FH-70-250 (1) and FH-70-900 Fiber Holders (1), SP-04 Set Plates, ELCT2-16B Spare Electrodes (Pair) (1), ADC-21 AC Adapter (1), BTR-17 Battery Pack (installed) (1), ACC-09 Power Cord (1), USB-01 USB Cable (1), CC-44 Transit Case (1), Cotton Swabs (4 packs of 25 units), One-Click Cleaner LC (1), One-Click Cleaner SC (1), Kevlar Shears (1), AFL cleaning Wipes (1), Fiber Cleaning Fluid (1), FH-FC-900 Fiber Holder (0.9 mm cable) (1), Mechanical Splicer Holder 250 um (1) and 1 pair of Loose Tube Sheath Clamps (1), 1 year factory warranty and instruction manual downloaded from splicer	S018513
One Year Extended Warranty for 35S Splicer ONLY	S012996
Two Year Extended Warranty for 35S Splicer ONLY	S013000

Ordering information for items included in the AFL Splice-on-Connector Tool-Kit

Description	AFL NO.
Fujikura 35S Fusion Splicer – Standard Kit	S018314
Cotton Swabs (25 pack)	S003719
One-Click Cleaner MU/LC (500+ cleans)	8500-05-0002MZ
One-Click Cleaner SC, ST, FC (500+ cleans)	8500-05-0001MZ
Kevlar Shears	S018514
WFW - FiberWipes –single mini-tub (90 wipes)	9000-03-0025MZ
FCC2 Enhanced Formula Connector Cleaner and Preparation Fluid – 3oZ (85g)	FCC2-00-0902
FH-FC-900 Fiber Holder (0.9 mm cable)	S014697
900 µm Loose Buffer Cable Clamp	CS004442
CLAMP-S35B Sheath Clamp LT (35S/45S)	S018333

Kit Contents

Fujikura 35S Fusion Splicer

CT-16 Cleaver

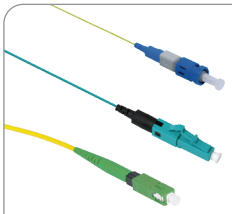
Cleaning Supplies

Fiber Holders and Clamps

Preparation Accessories

AFL Splice-on-Connector Tool-Kit

Recommended Products



FUSEConnect® Splice-On Connectors

- Field installable
- No adhesives, crimping or polishing
- True APC performance
- Compatible with most fusion splicers

Splicer V-Groove Cleaning Kit

- Scrubber Brush with stiff tapered nylon bristles
- Sweeper Brush with soft nylon bristles
- Eye Loupe with 3X to 12X magnification
- FCC2 Cleaning and Preparation Fluid nonflammable and environmentally safe

Description	AFL NO.
Cleavers and strippers	
CT50 Fiber Cleaver	S017030
CT-16 Fiber Cleaver	S018330
SS-05 Dual Fiber Stripper	S018327
Fiber Holders	
CLAMP-S35A Standard Sheath Clamp	S018464
CLAMP-S35B Loose Buffer Tube Clamp	S018333
FH-70-250 (250 µm single fiber)	S017111
FH-70-200 (200 µm single fiber)	S017711
FH-70-900 Fiber Holders (900 µm single fiber)	S017113
FH-60-LT900 (900 µm loose buffer tube)	S015181
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.
Power Supply Options	
BTR-17 Battery Pack	S018324
ADC-21 AC Adapter	S018168
ACC-09 Power Cord	S014390
Miscellaneous	
TS-03 Tripod Screw	S017524
ELCT2-16B Electrodes	S017103
CC-44 Transit Case	S018325
Splicer V-Groove Cleaning Kit	S014397
USB-01 USB Cable	S014777
SP-04 Fiber Holder Set Plates	S018332
AD-16A Adapter Plate (CT-50 & CT-16 up to 900 µm)	S018328
AD-16B Adapter Plate (CT-50 & CT-16 up to 3 mm)	S018331
CB-09 Replacement Blade for CT-16 Cleaver	S018335
Portable Tripod Workstation (see web listing for more detail)	S014773

Recommended FUSEConnect Fusion-Spliced, field-Installable Connectors with this Tool-Kit

Connector Type	Boot Type	AFL NO.				
		UPC SM (Blue)	APC SM (Green)	PC 62.5 µm MM (Beige)	PC 50 µm MM (Black) *	PC 50 µm LOMMF (AQUA) **
SC	900 µm	FUSE-SC9SMU-6	FUSE-SC9SMA-6	FUSE-SC9M62-6	FUSE-SC9M50L-6	FUSE-SC9M50L-6
LC	900 µm	FUSE-LC9SMU-6	FUSE-LC9SMA-6	FUSE-LC9M62-6	FUSE-LC9M50L-6	FUSE-LC9M50L-6
ST	900 µm	FUSE-ST9SMU-6	–	FUSE-ST9M62-6	FUSE-ST9M50L-6	FUSE-ST9M50L-6

* For applications requiring 50 µm fiber terminations, AFL only offers the Laser Optimized Multimode Fiber (LOMM) in place of OM2 style connectors. LOMM is backward compatible for these applications, and the alternative part numbers are listed abpve. The OM2 options will no longer be available for quote or purchase effective September 10, 2024.

** Laser Optimized MM Fiber (LOMMF) compatible with OM3 and OM4 fibers.

For more information, visit the FUSEConnect Splice-On Connectors web page.

AFL Splice-on-Connector Tool-Kit

Specifications

PARAMETER		VALUE
Fiber alignment method		Active cladding alignment
Fiber count can be spliced		Single fiber
Applicable fiber	Fiber type	Single mode optical fiber Multi mode optical fiber
	Cladding dia.	Approx. 125 µm
Applicable coating	Sheath Clamp	Coating diameter: Max. 3,000 µm Cleave length: 5 to 16 mm *1
	Fiber Holder	Coating diameter: 160 µm – 3,000 µm based on available fiber holder options Cleave length: Approx. 10 mm
Fiber splice performance	Splice loss *2	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*3	SM FAST mode: Avg. 6 to 7 sec. SM AUTO mode: Avg. 8 to 10 sec.
Applicable protection sleeve	Sleeve type Sleeve length Sleeve dia.	Heat shrinkable sleeve Max. 66 mm Max. 6.0 mm before shrinking
Sleeve heat performance	Heat time*4	60 mm mode: Avg. 15 to 22 sec. 60 mm slim mode: Avg. 15 to 17 sec.
Fiber tensile test force		Approx. 2.0 N
Electrode life*5		Approx. 6,000 splices
Physical description	Dimensions W Dimensions D Dimensions H Weight	Approx.131 mm without projection Approx.123 mm without projection Approx.121 mm without projection Approx. 1.4 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. 5,000 m
AC adaptor	Input Output	AC100 to 240V, 50/60 Hz, Max. 1A Approx. DC 19V, Max. 2.1A
Battery pack	Type	Rechargeable Lithium Ion
	Output	Approx. DC14.4V / 3,190mAh
	Capacity*6	60 mm heat mode: Approx. 200 splice & heat cycles 60 mm slim heat mode: Approx. 230 splice & heat cycles
	Temperature	Operate: -10 to 50°C Recharge : 0 to 40°C Short term storage of 30 days: -20 to 50°C Long term storage: -20 to 30°C
	Battery life*7	Approx. 500 recharge cycles
Display	LCD monitor Magnification	TFT 4.95 inches with touch screen Approx. 132 to 300X
Illumination	V-grooves	LED lamp
Interface	PC External LED lamp	USB 2.0 MINI B type USB 2.0 A type Approx. DC5V, 500 mA

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AFL Splice-on-Connector Tool-Kit

Specifications

PARAMETER		VALUE
Data storage	Splice mode	100 splice modes
	Heat mode	30 heat modes
	Splice result	20,000 splices
	Fiber image	100 images
Other features	Automatic functions	Fusion control Splice start Heater start
	Reference guide	PDF file stored on splicer
	Sheath clamp	Open with/without wind protector Close when setting fiber Easy sleeve positioning design
	Electrode	Tool-less replacement
	PC Software	Splicer firmware update via internet Parameter Upload and download

NOTES:

*1 Cleave length range depending on fiber type
5 – 16 mm: 125 µm cladding dia. And 250 µm coating dia.
10 – 16 mm: 125 µm cladding dia. And 400 or 900 µm coating dia.

*2 Measured with cut-back method relevant to ITU-T and IEC standard after splicing Fujikura identical fibers. The average splice loss changes depending on the environmental condition and fiber characteristics.

*3 Measured at room temperature. The definition of splice time is from the fiber image appearing on the LCD monitor to the estimated splice loss. The average splice time changes depending on the environmental conditions, fiber type, and fiber characteristics.

*4 Measured at room temperature with the AC adapter. The heat time is defined from the start beep sound to the finish beep sound. The average heat time changes depending on the environmental conditions, sleeve type, and battery pack condition. In addition, since the heating operation is constantly optimized, the average heating time changes depending on the usage conditions of the fusion splicer.

*5 The electrode life changes depending on the environmental conditions, fiber type, and splice modes used.

*6 Test Conditions
Splice and heat time: 1 minute cycle
Using the splicer power save settings, subject to our testing condition
Using a new battery
Room temperature
The battery capacity changes when testing in different conditions than above

*7 The battery capacity decreases to half after approx. 500 discharge and recharge cycles. The battery life is shortened further when using outside of the storage and operating temperature ranges, or if completely discharged when stored for an extended period without recharging.

Contact Sales@AFLglobal.com to schedule a demonstration or learn how to buy.

Visit www.aflglobal.com/en/Products/Fusion-Splicing to learn more about Splicers

Fusion Splicer Maintenance and Technical Support

Fujikura 90R Fusion Splicer

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.

With automated splice start, tube heater, wind protector, cleave tracking, and blade rotations for up to 2 cleavers at a time, this splicer frees up operator time for other fiber preparation steps. With 16-fiber add-ons, the Fujikura 90R splicer enables customers to successfully splice 16-count ribbon fibers with a 200 µm pitch and size.

With the Fujikura 90R, you can keep your splicer in the field longer with field replaceable V-grooves. When V-grooves can no longer be cleaned after extended use, or are accidentally damaged, you can resume splicing in minutes by installing the spare set included with your 90R kit. With the AFL Tote Solution installed, the 90R transit case securely integrates with Milwaukee's PACKOUT™ system, offering faster transport, stability, and time-savings for contractors and technicians. Put our 90R to the test by contacting us to see its capabilities first-hand, 1-800-235-3423.

90R


In Work Tray

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

Applications

- Data Center cable installation
- High fiber count metro and campus networks
- Long-haul network installs and repair
- Trunk cable repair with Splice-on MPOs
- Ribbon splicing high density cables with 200 µm loose fiber


Wind Protector Open

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1 (800) 235-3423

Fujikura 90R Fusion Splicer

Ordering Information

DESCRIPTION	AFL NO.
Fujikura 90R Fusion Splicer (machine only) 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, Quick Reference Guide, TS-03 Tripod Screw, Video Instruction Manual, Work Tray, CC-39 Transit Case, and Two-year Warranty	S017509
Fujikura 90R Standard Fusion Splicer Kit (with cleaver & 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, Quick Reference Guide, TS-03 Tripod Screw, Video Instruction Manual, CC-39 Transit Case and Two-yearWarranty	S017511
Fujikura 90R Fusion Splicer without Bluetooth (machine only) 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, Quick Reference Guide, TS-03 Tripod Screw, Video Instruction Manual, CC-39 Transit Case, and Two-year Warranty	S017540
Fujikura 90R Fusion Splicer Kit without Bluetooth (with cleaver & 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, Quick Reference Guide, TS-03 Tripod Screw, Video Instruction Manual, CC-39 Transit Case, and Two-year Warranty	S017510
Fujikura SpliceReady 90R Splicer Kit includes: Fujikura 90R Standard Kit (S017511), FP-05 40 mm (Ribbon-12) protection sleeve, Splicer V-groove cleaning kit, FH-70-12 Fiber holders (pair), AFL WFW wipes mini tub (90 wipes), FCC2 fiber cleaning fluid (3 oz.), RT-02 Ribbonizing tool	S018583
Fujikura SpliceReady 90R 200 µm Splicer Kit includes: Fujikura 90R Standard Kit (S017511), FP-05 40 mm (Ribbon-12) protection sleeve, VG12-01-200 200 µm V-groove, FH-70-12PC Fiber holders for 12-fiber pitch conversion (pair), FH-70-12-200 fiber holders for 200 µm pitch ribbons (pair), RT-02 Ribbonizing tool, Splicer V-groove cleaning kit, FCC2 fiber cleaning fluid (3 oz.), AFL WFW wipes mini tub (90 wipes)	S018584
One-year Extended Warranty	S012996
Two-year Extended Warranty	S013000

Recommended Products for the 90R

DESCRIPTION	AFL NO.
Cleavers and Strippers	
CT50 Cleaver	S017030
RS01 Thermal Stripper	S016815
RS02 Thermal Stripper	S016816
RS03 Thermal Stripper	S016817
Fiber Holders (pair)	
FH-70-2	S017114
FH-70-4	S017115
FH-70-6	S017116
FH-70-8	S017117
FH-70-10	S017118
FH-70-12	S017119
FH-70-12PC (pitch conversion holder for 200 µm loose fibers)	S017464
FH-70-12-200 (200 µm pitch ribbons)	S017681
FH-70-16	S017533
FH-70-16-200 (200 µm pitch for 16 fiber ribbon)	S018610
FH-70-16PC (Pitch conversion holder for 200 µm loose 16 fibers)	S018611
FH-70-250 (250 µm coated single fiber)	S017111
FH-70-900 (900 µm jacketed single fiber)	S017113
FH-60-LT900 (Loose buffer 900 µm fiber)	S015181
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
Batteries and Power Cords	
ADC-20 AC Adapter	S017513
BTR-15 Battery	S017512
DCC-11 splicer to ribbon stripper power cord	S013852
DCC-20 Power Cord Connects ADC-20 to cigarette lighter socket	S017527
DCC-21 Power Cord Connects ADC-20 to power source via alligator clips	S017528
ACC-14 AC Power Cord	S014536

DESCRIPTION	AFL NO.
Miscellaneous	
SS01 Single fiber stripper (1 hole)	S017099
ELCT2-16B Electrodes	S017103
Portable Tripod Workstation (see product profile for more detail)	S014773
ASW-02 Splicing Workstation (see product profile for more detail)	S010532
WT-09R Work Tray Right	S017515
WT-09L Work Tray Left	S017516
JP-09 Work Tray J-Plate	S017517
JP-10 J-Plate (Cooling tray attaches to splicer)	S017522
JP-10-FC J-Plate with Fiber Clamps	S017523
TS-03 Tripod Screw (90 Series)	S017524
ST-02 Fusion Splicer Strap	S017525
CLAMP-DC-12 (Drop Cable clamp on work tray)	S017550
FST-12 Fiber Separation Tool	S014012
FAT-04 Fiber Arrangement Tool	S010212
RT-02 Fiber Arrangement Tool	S017465
VG12-01 12 fiber V-groove	S017548
VG12-01-200 12 fiber V-groove (200 µm pitch ribbons)	S017680
VG04-01 4 fiber V-groove	S017551
VG08-01 Spare 8 fiber V-grooves	S017508
VG16-01 16 fiber V-groove	S017552
VG16-01-200 16 Fiber V-groove (200 µm pitch for 16 fiber ribbons)	S018612
FAA-03A Ribbon Forming Adhesive (4 oz. bottle)	S008720
FAA-03A Ribbon Forming Adhesive (0.5 liter bottle)	S008622
CC-39 Transit Case	S017514
Splicer V-groove Cleaning Kit	S014397
ST-03 Case and Work Tray Strap	S017549
AFL Tote Solution - Cleat Installation Service	S018623

Fujikura 90R Fusion Splicer

Specifications

PARAMETER		VALUE
Fiber Alignment Method		Self cladding alignment with melting surface tension
Fiber Count Can Be Spliced		Up to 16 fiber ribbon
Applicable Fiber	Fiber Type	Single mode optical fiber Multi mode optical fiber
	Cladding Dia.	Approx. 125 µm
Applicable Coating	Fiber Holder	Coating shape. : Refer to fiber holder options Cleave length : 10 mm
Fiber Splice Performance	Splice Loss	ITU-T G.652 : Avg. 0.05 dB ITU-T G.651 : Avg. 0.02 dB ITU-T G.653 : Avg. 0.08 dB ITU-T G.655 : Avg. 0.08 dB ITU-T G.657 : Avg. 0.05 dB
	Splice Time	SM FAST mode : Avg. 14 to 15 sec. SM AUTO mode : Avg. 19 to 20 sec.
Applicable Protection Sleeve	Sleeve Type Sleeve Length Sleeve Dia.	Heat-shrinkable sleeve Max. 66 mm Max. 6.0 mm before shrinking
Sleeve Heat Performance	Heat Time	40 mm FP-05 mode : Avg. 38 to 40 sec. 40 mm FP-04T mode : Avg. 17 to 19 sec. Single 60 mm mode: Avg. 13 to 15 sec.
Fiber Tensile Test Force		Approx. 2.0 N
Electrode Life		Approx. 1,500 splices
Physical Description	Dimensions W Dimensions D Dimensions H Weight	Approx.170 mm without projection Approx.173 mm without projection Approx.150 mm without projection Approx. 2.6 kg including battery
Environmental Condition	Temperature	Operate : -10 to 50°C Storage : -40 to 80°C
	Humidity	Operate : 0 to 95% RH non-condensing Storage : 0 to 95% RH non-condensing
	Altitude	Max. 3,700 m
AC Adaptor	Input	AC100 to 240 V, 50/60 Hz, Max. 1.5 A
Battery Pack	Type Output Capacity	Rechargeable Lithium Ion Approx. DC14.4V / 6,380 mAh Approx. 165 splice and heat cycles
	Temperature	Recharge : 0 to 30°C Storage : -20 to 30°C
	Battery Life Recharge Time	Approx. 500 recharge cycles Approx. 5 – 8 hours from empty
Display	LCD Monitor Magnification	TFT 5 inches with touch screen Approx. 20X : 12 Ribbon to 60X : Single
Illumination	V-Grooves	LED lamp
Interface	PC External Led Lamp Ribbon Stripper Wireless	USB2.0 Mini B type USB2.0 A type, Approx. DC5V, 500 mA Mini DIN 6 pin, DC12V, Max. 1A Bluetooth 4.1 LE
Data Storage	Splice Mode Heat Mode Splice Result Splice Image	100 splice modes 30 heat modes 10,000 splices 100 images
Screw Hole For Tripod		1/4-20 UNC
Other Features	Automatic Functions	Splice mode select by fiber type analysis Discharge power calibration Wind protector : open/close Sheath clamp : open Heater lid : open/close Heater clamp : open/close
	Reference Guide Electrode	Video and PDF file stored in splicer Replaceable without tool

CT60 Fiber Cleaver

The Fujikura CT60 Fiber Cleaver is engineered for precision and durability, offering motorized blade rotation and Bluetooth connectivity for seamless integration with compatible Fujikura splicers. Designed to support both single and ribbon fibers, it delivers consistent cleave quality with minimal maintenance and an impressive blade life.

One-handed Operation: Designed for ergonomic use, the CT60 supports one-handed operation with a simplified cleaving mechanism and a toggle button for flexible arm control.

Motorized Blade Rotation: The CT60 features fully automatic blade rotation, ensuring consistent cleave quality and extending blade life up to 60,000 cleaves.

Bluetooth Connectivity: Seamlessly integrates with compatible Fujikura fusion splicers via Bluetooth, enabling smart blade management and maintenance tracking directly through the splicer.

Dual Cleaving: Capable of cleaving two optical fibers simultaneously, the CT60 significantly improves efficiency for technicians working with ribbon or paired fibers.

Expanded Blade Positions: With 28 cleaving positions, the CT60 eliminates the need for blade height adjustments, allowing finer control and easier maintenance.

Easy Maintenance: The CT60 fiber cleaver has a user-replaceable blade, so there's no need to send the device to a service center for blade or clamp replacement.

Drop-Tested Durability: Engineered to withstand drops up to 30 inches, the CT60 sets a new standard for ruggedness in fiber cleavers, making it ideal for field use.

Active Blade Management Technology: Automatically advances blade positions based on cleave count or quality, ensuring optimal performance without manual intervention.

Versatile Fiber Compatibility: Supports single-mode and multimode fibers, including single and ribbon configurations up to 16 fibers, with a wide range of coating diameters and fiber holders.

Compact and Lightweight Design: With a palm-sized design and a weight of just 280 g (including battery), the CT60 is portable and easy to handle in any environment.

User-Replaceable Blade and Components: Simplified maintenance allows users to replace blades and clamps in the field, reducing downtime and service costs.

Features

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

continued

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CT60 Fiber Cleaver

Specifications

Parameter		Value
Applicable Fiber	Fiber type	Single-mode optical fiber
		Multimode optical fiber
	Fiber count	Single, up to 16 fibers
	Cladding diameter	Approx. 125 µm
Applicable Coating	Fiber plate	AD-60A: Max. 900 µm coating diameter maximum
		AD-60B: Max. 3 mm coating diameter maximum
	Fiber holders	FH-50, FH-60, FH-70, FH-100 and FH-110 series
Cleave Length	Fiber plate	AD-60A: ≤ 250 µm – 5 ~ 20 mm, 900 µm – 10 ~ 20 mm
		AD-60B: 3 mm Max – 14 ~ 20 mm
	Fiber holder	Approx. 10 mm
Cleave Angle	Single fiber	Avg. 0.3 to 0.9 degrees
	Fiber ribbon	Avg. 0.3 to 1.2 degrees
Blade Life		Approx. 60,000 fiber cleaves
Physical description (lever closed)	Dimensions W	Approx. 113 mm
	Dimensions D	Approx. 92 mm
	Dimensions H	Approx. 54 mm
	Weight	Approx. 293 g including battery and AD-60A
Environmental condition	Temperature	Operate: -10°C to 50°C
		Storage: -40°C to 80°C
	Humidity	Operate: 0 to 95%RH non-condensing
		Storage: 0 to 95%RH non-condensing
Battery		2 ea. batteries LR03/AAA dry battery
Wireless interface		Bluetooth 5.2
Screw hole for tripod		1/4-20UNC
Other features	Blade rotation	Motorized rotation
		Manual rotation dial
	Replaceable items	Blade
		Clamp arm

Ordering Information

Description	Application	Fiber Handling System	Cleave Length	AFL No.
CT60	Single or Ribbon Fiber	AD-60A adapter plate for single fibers or fiber holders for ribbons	See Specifications table above	S018654
CT60 No Bluetooth	Single or Ribbon Fiber	AD-60A adapter plate for single fibers or fiber holders for ribbons	See Specifications table above	S018664

Accessories

Description	AFL No.
CB-10 Replacement Blade	S018683
CLA-CT60 Replacement Clamp Arm for CT-60 Cleaver	S018684
FDB-08 Fiber Scrap Collector for CT-60 (Small size)	S018685
AD-60B Adapter Plate	S018682
SC-CT60-01 Side cover for CT-60	S018686
SPA-CT60-10 Cleave Length of 10 mm	S018687
SPA-CT60-09 Cleave Length of 9 mm	S018688
TS-04B tripod Screw For CT-60 Cleaver	S018691

Splice+ is a smartphone application that works in cooperation with Fujikura's splicers, cleavers and ribbon fiber strippers which have Bluetooth capability.

Get the **Splice+** app at the Apple App store or at Google Play.

Available on the iPhone App Store

ANDROID APP ON Google play

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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 preference, 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. Like its predecessor, this cleaver can withstand a 30" drop from any of six different orientations and still maintain factory specified cleave angle performance. The cleaver blade and fiber clamping mechanisms are easy to replace in the field, mitigating the need to send this cleaver in for service.

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

Applications

- Small cell site
- FTTx drops and terminations
- MDF/IDF splices and terminations
- Rural fiber deployments and restorations

Ordering Information

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
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 900 µm coating)	S018328
AD-16B Fiber Adapter (up to 3.0 mm jacket)	S018331
CC-46 Carrying Case	S018374

continued

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CT16 Fiber Cleaver

Specifications

Parameter		Value
Applicable Fiber	Fiber type	Single-mode optical fiber
		Multimode optical fiber
	Fiber count	2 single fibers
	Cladding diameter	Approx. 125 µm
Applicable Coating	Adapter plate	AD-16A: Max 900 µm coating diameter single fiber or 250 µm coating diameter for two fibers
		AD-16B: Max. 3 mm jacket diameter
	Fiber holders	FH-60 and FH-70 series – coating diameter dictated by specific fiber holder
Cleave Length	Adapter plate	AD-16A: 5 – 20 mm*1
		AD-16B: Coating diameter – 250 µm or less: 5-20 mm*1 251 µm-900 µm: 10-20 mm 901 µm-3 mm: 14-20 mm
	Fiber holder	Approx. 10 mm
Cleave Angle*2	Single fiber	Avg. 0.3 to 0.9 degrees
Blade Life*3		Approx. 48,000 fiber cleaves
Physical description	Dimensions W	Approx.106 mm without projection*4
	Dimensions D	Approx.95.5 mm without projection*4
	Dimensions H	Approx.49 mm without projection*4
	Weight	Approx. 190 g including AD-16A
Environmental condition	Temperature	Operate: -10 to 50°C
		Storage: -40 to 80°C
	Humidity	Operate: 0 to 95%RH non-condensing
		Storage: 0 to 95%RH non-condensing
Other features	Blade rotation	Manual dial underneath cleaver
	Replaceable items	Cleaver blade
		Fiber clamp pads
	Fiber adapter base and scrap collector	Can be swapped position for ambidextrous operation
	Cleave count	Up to two individual bare fibers

Notes

1. When the cleave length is less than 10 mm, the coating diameter should be 250 µm or less. Also, a blade height adjustment is required before cleaving. The average cleave angle is worse than the specification above when the cleave length is less than 10 mm.
2. Measured with an interferometer at room temperature, no with a splicer. A new blade was used to cleave the single fibers. The average cleave angle changes depending on the environmental conditions, blade condition, operating method, and cleanliness.
3. The blade life changes depending on the environmental conditions, operating method, and the fiber type cleaved.
4. Measured with the top lever closed.

Thermal Strippers

The RS01, RS02, RS03 and RS03-80 Thermal Strippers provide superior stripping performance for both single and multi-fiber stripping. The fast heating time of 3 seconds speeds productivity. The ergonomic design, combined with the low level of force needed for stripping, makes the RS series comfortable and easy to use for high fiber count applications. The strippers are also capable of stripping 200 µm coated fibers and ribbons. An audible beep and illuminated LED signal indicate that the proper heating temperature has been reached. A temperature selection switch permits easy field optimization for different fibers or operating conditions. These strippers accept all Fujikura field and factory style fiber holders.

Bluetooth® capabilities on the RS02 and RS03 models provide a convenient way to program the stripper for user preferences via an Android or iOS smartphone app. The RS03 model includes a powerful Lithium-Ion battery that delivers enough power for 600 stripping cycles. The RS03-80 is offered for stripping 80 µm cladding fiber applications.

For those situations and locations where Bluetooth-enabled devices are not permitted, the RS01 model is available with all of the features of the RS02 model but without the Bluetooth technology.

Features

- 3 Second heating time with beep and LED notification
- Low pulling force needed for stripping
- Stripping capability for 200 µm coated fibers and ribbons
- Ergonomic design
- Bluetooth capable for wireless connection with smartphones (RS02, RS03 and RS03-80)
- High capacity battery provides approximately 600 stripping cycles (RS03 and RS03-80)

Ordering Information

Description	AFL No.
Strippers	
RS01 Thermal Stripper **Includes:** RS01 Thermal Stripper, DCC-11 and Instruction manual	S016815
RS02 Thermal Stripper **Includes:** RS02 Thermal Stripper, DCC-11, HEX-01 Hex Wrench, BRS-02 Brush and Instruction manual	S016816
RS03 Thermal Stripper **Includes:** RS03 Thermal Stripper, BTR-12 Battery Pack, ADC-09A AC Adapter for RS Series Thermal Strippers, ACC-09 AC Power Cord (for ADC-09A), HEX-01 Hex Wrench, BRS-02 Brush and Instruction manual	S016817
RS03-80 Thermal Stripper **Includes:** RS03-80 Thermal Stripper, BTR-12 Battery Pack, ADC-09A AC Adapter for RS Series Thermal Strippers, ACC-09 AC Power Cord (for ADC-09A), HEX-01 Hex Wrench, BRS-02 Brush and Instruction manual	S016842
POWER SUPPLY	
ADC-09A AC Adapter (RS01/RS02/RS03)	S016820
ACC-09 Power cord	S014390
BTR-12 Battery (RS03)	S016832
Miscellaneous	
SPA-RS02-08 SPACER	S016818

Thermal Strippers

Specifications

Model	RS01	RS02	RS03	RS03-80
Applicable optical fiber	Glass optical fibers, capillary			
Fiber count	1 to 16			Single
Cladding diameter	125 µm			80 µm
Coating diameter	200 to 400 µm			150 to 250 µm
Stripping length	Up to 35 mm			
Typical heating time	3 sec. 5 sec. at Eco mode			
Heating temperature	85° - 140°C			
Fiber holder	All FH-40, FH-50, FH-60, FH-70, and FH-100 series fiber holders (except FH-50-250 and FH-50-900)			
Wireless connectivity	N/A	Bluetooth®4.1 LE*1 OS:Android 5.0 or above , iOS 8.0 or above (iPhone6 or above)		
Dimensions	155.5 (W) × 48.7 (D) × 32.5 (H) mm		155.5 (W) × 48.7 (D) × 36.8 (H) mm	
Weight	185 g		265 g (with Battery)	
Power supply	AC Adaptor Input: 100 to 240V, 50/60 Hz, Max – 0.58 A Output: Approx. DC 12 V, Max 2A DC External Supply: DC10 to 17V, Max – 1A		AC Adaptor Input: 100 to 240V, 50/60 Hz, Max – 0.58 A Output: Approx. DC 12 V, Max 2 A DC External Supply: DC10 to 17 V, Max – 1 A BTR-12 Battery: DC7.2 V, 1840 mAh (Rechargeable Lithium Ion)	
Battery capacity	N/A		Approx. 600 strips with Eco mode	
Recharge Time			Approx. 2 hr from empty	
Battery Life			Approx. 500 recharge cycles	
Operating conditions	Temperature: -10 to 50°C, Humidity: 0 to 95% RH (Non-condensing)			
Storage conditions	Temperature: -20 to 60°C, Humidity: 0 to 95% RH (Non-condensing)			

Precision Strip Tool

AFL's Precision Strip Tool is a fast, simple solution for stripping fiber without damage. This battery-powered, handheld stripper features an integral heating element that enables it to soften and strip optical fiber coating quickly and easily with little to no effort by the user. The Precision Strip requires less than a pound of peak force for stripping coated fiber. The result is no fiber damage and higher quality splices and connections.

AFL's Precision Strip Tool works by removing 900 µm coatings and insulations such as Mylar, KAPTON, TEFLON, PVC and others. It strips away the 250 µm buffer leaving the 125 µm bare glass fiber ready for clean, cleave and splice.

Designed for field work, this automated stripper performs coated fiber stripping tasks quickly and precisely, ensuring optimal performance and reliability for your fiber optic projects.

Features

- Precisely strip 900 µm coated optical fibers in 5-8 seconds.
- Portable battery-powered operation for use anywhere, anytime
- Ergonomic design, palm-sized
- Low stripping force for high-quality splices
- Speeds up the stripping process

Applications

- Field installations
- Data center environments
- Fiber optic maintenance
- Splicing projects

Ordering Information

Description	AFL No.
Precision Strip 125/900 µm Kit (Battery Powered)	S018613
Precision Strip Replacement 125/900 µm Blades	S018614
Precision Strip Replacement 900 µm Centralizer	S018615
Precision Strip Replacement Heater Cartridge	S018616
Precision Strip Push Out Tool	S018617
Precision Strip Cleaning Brush	S018618

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Splice Protection Sleeves

AFL offers a wide selection of fiber protection sleeves to meet any application. The FP series is the industry standard for durable and lasting protection of single fiber splices in field installations, while the FP-04(T) and FP-05 provide the same durable protection for 8 and 12 fiber ribbon respectively.

The FPS01 and FPS04 series are specially designed for optical components, where small packaging is a priority. These micro sleeves provide the known reliability of Fujikura sleeves in the smallest possible lengths. This easy and cost effective method is a great alternative to recoating. The FPS01 and FPS04 series offer a wide range of options to accommodate various coating sizes, and are manufactured in a variety of lengths. This gives great flexibility in designing optical modules.

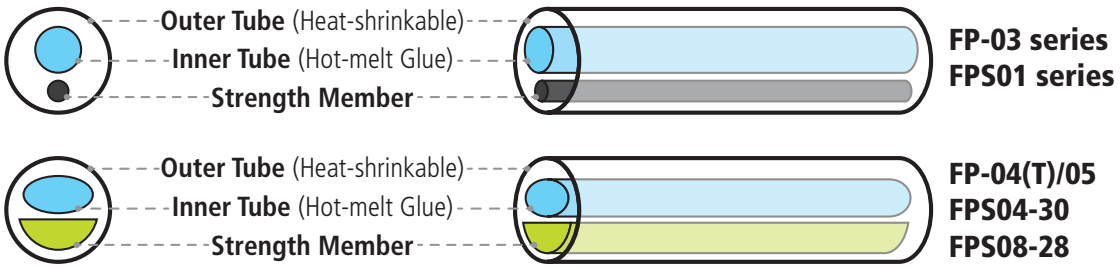
Standard Sleeves: Dimensions & Applicable Fiber

Description	Sleeve Length	Fiber Cleave Length	Sleeve Diameter After Shrink	MOQ & MOM	AFL No-.
FP-40 Slim Protection Sleeve	40 mm	10 mm	2.3 mm (max.)	1,000 & 100	S018262
FP-60 Slim Protection Sleeve	60 mm	10 mm	2.3 mm (max.)	1,000 & 100	S018263
FP-60	60 mm	10 mm	3.1 mm (max.)	1,000 & 100	S015915
FP-40	40 mm	10 mm	3.1 mm (max.)	1,000 & 100	S015916

Description	Fiber Count	Sleeve Length	Fiber Cleave Length	Sleeve Diameter After Shrink	MOQ & MOM	AFL No.
FP-04(T)	Up to 8 fibers	40 mm	10 mm	4.0 mm (max.)	250 & 250	S002105
FP-05	Up to 12 fibers	40 mm	10 mm	4.5 X 4.0 mm (max.)	250 & 250	S003027
FP-05-28	Up to 12 fibers	28 mm	10 mm	4.5 mm (max.)	5,000 & 250	S014720
FPS04-30	Up to 4 fibers	30 mm	10 mm	2.4 mm (max.)	250 & 250	S010848
FPS08-28	Up to 8 fibers	28 mm	10 mm	3.3 X 2.7 mm (max.)	500 & 500	S013560
FPS24-40	Up to 24 fibers	40 mm	10 mm	8.0 X 4.0 mm (max.)	200 & 200	S013004

Specifications

Parameter	Description	Value
Outer tube	FP-60/40/03 series FPS-04(T) / FP-05	Polyolefin based on Polyethylene Ethylene-Vinyl Acetate
Inner Tube	ALL	Ethylene-Vinyl Acetate
Strength member	FP-60/40/03 series FP-04(T) / FP-05	Stainless steel Heat-resistant glass
Operation condition (after shrink)		-10 to 50°C, 0 to 95% RH (Non dew)
Storage condition (before shrink)		-40 to 60°C, Non dew



Splice Protection Sleeves

Micro Sleeves: Dimensions & Applicable Fiber

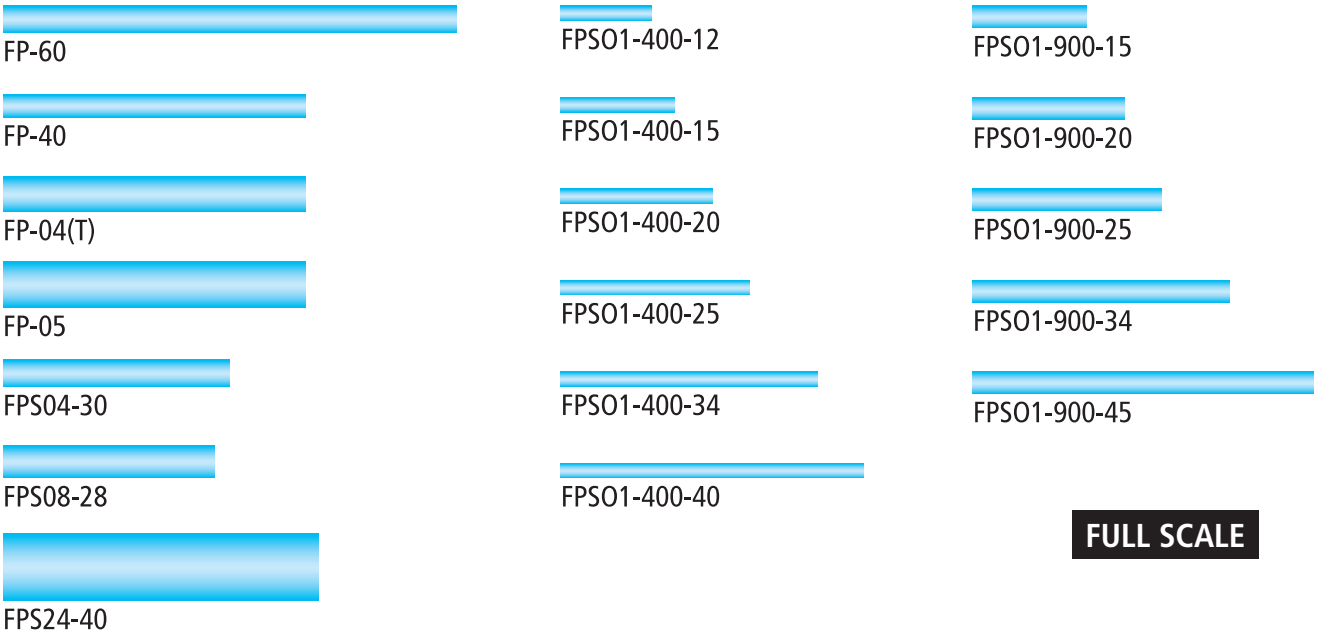
Description	Sleeve Length	Fiber Cleave Length	Sleeve Diameter After Shrink	Packaging	AFL No.
FPS01-400-12	12 mm	4 mm	1.5 mm	50 Pack	S014088
FPS01-400-15	15 mm	5 mm	1.5 mm	50 Pack	S012668
FPS01-400-20	20 mm	8 mm	1.5 mm	50 Pack	S012672
FPS01-400-25	25 mm	10 mm	1.5 mm	50 Pack	S012676
FPS01-400-34	34 mm	15 mm	1.5 mm	50 Pack	S012680
FPS01-400-40	40 mm	16 mm	1.5 mm	1,250 Box	S011914

Description	Sleeve Length	Fiber Cleave Length	Sleeve Diameter After Shrink	Packaging	AFL No.
FPS01-900-15	15 mm	4 mm	2.3 mm	50 Pack	S012684
FPS01-900-20	20 mm	6 mm	2.3 mm	50 Pack	S012688
FPS01-900-25	25 mm	6 mm	2.3 mm	50 Pack	S011954
FPS01-900-34	34 mm	13 mm	2.3 mm	50 Pack	S012692
FPS01-900-45	45 mm	16 mm	2.3 mm	50 Pack	S012696

Specifications

Parameter	Description	Value
Outer tube	FPS01 series / FPS04-30 / FPS08-28 / FPS24-40	Polyolefin based on Polyethylene
Inner Tube	ALL	Ethylene-Vinyl Acetate
Strength member	FPS01 series	Stainless steel
	FPS04-30 / FPS08-28 / FPS24-40	Heat-resistant glass
Operation condition (after shrink)		-10 to 50°C, 0 to 95% RH (Non dew)
Storage condition (before shrink)		-40 to 60°C, Non dew

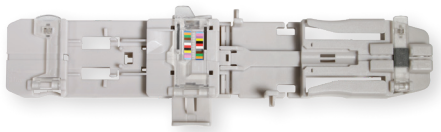
Type Variations



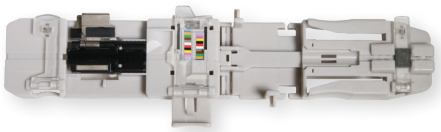
AFLglobal.com
1 (800) 235-3423

RT-02 Ribbonizing Tool

The RT-02 is the latest ribbonizing tool from Fujikura, and the first universal ribbonizing tool on the market suitable for forming a temporary ribbon from loose 200 µm or 250 µm fibers. This is also the first tool that features a glue-less process for ribbonizing and splicing 12 fiber ribbons. This saves time and money by eliminating operating inefficiencies such as cure time and contamination of splicing equipment. Simply choose the applicable fiber holder in conjunction with the RT-02 to ribbonize 200 µm or 250 µm fibers. With this tool, you can now realize the benefits of mass fusion splicing when installing the latest generation of loose fiber micro cables.



RT-02



RT-02 with FH-70-12PC

Features

- No glue required
- 200 µm and 250 µm compatible
- Loading with color code sequence not required
- Fibers load directly into fiber holder
- Left and right fiber holder color codes printed on tool

Applications

- Ribbonizing 200 µm and 250 µm loose fibers
- 200 µm and 250 µm MPO termination
- Mass fusion splicing loose fiber cables

Ordering Information

Description	AFL No.
RT-02 (tool only)	S017465
FH-70-12PC (pair of pitch conversion holders for 200 µm loose fibers)	S017464
FH-70-12 (pair – standard 12F ribbon holders)	S017119

FST-12 Fiber Separation Tool

The FST-12 Fiber Separation Tool is used to quickly, accurately and reliably split ribbons into sub-groups or individual fibers. The ergonomic FST-12 design enables safe and reliable, one-handed operation for use in diverse fiber deployment environments, such as aerial and remote-site applications.

Features and Benefits

- Enables separation of groups of fibers or single fibers and is not limited to only even-numbered groupings.
- One-handed operation allows the operator's other hand to guide and control the ribbon at all times, minimizing the potential for accidental damage to the fibers or ribbon.
- Hand-held method eliminates the need to utilize valuable work surface space for operation and is the ideal solution for remote-site and aerial operations such as bucket truck or ladder-sling applications.
- Performing two overlapping separations of the ribbon allows any single fiber or any sub-group of fibers to be extracted from the ribbon, even in mid-span taut-sheath operations where minimal ribbon length is available.
- Standard tool designed for fiber counts up to 12-fiber ribbon.

Specifications

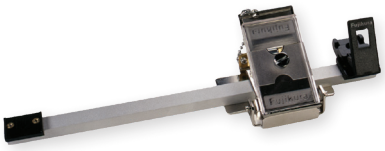
Parameter	Value
Ribbon Thickness	250 to 360 micron
Ribbon Width	3.2 mm (12-fiber)
Fiber Pitch	250 micron
Fiber Coating Material	UV cured resin
Separation Ratios: 12-fiber Ribbon	1:11, 2:10, 3:9, 4:8, 5:7, 6:6
Environmental Conditions: Operating Temperature Storage Temperature	-10° to 50°C, 0 to 95% RH (non-dew) -40° to +80°C, 0 to 95% RH (non-dew)
Dimensions	160L x 126W x 30H (mm) 6.30L x 4.96 x 1.18 (in)
Weight	220 g / 7.76 oz.

Ordering Information

Description	AFL N0.
FST-12 Fiber Separation Tool Includes: 12-fiber ribbon jaw set, instructional manual and color coded quick reference guide	S014012

Fiber Arrangement Tool

The FAT-04 features an easy-to-use fiber arrangement method utilizing linear travel. The FAT-04 includes a spare paste applicator to allow ribbon making to continue even if one of the paste applicators needs cleaning.



FAT-04

Ordering Information

Description	AFL No.
FAT-04 Fiber Arrangement Tool*	S010212
SP-1 Foam Pads for FAT-04 (One set = 5 sheets of 25 pads each)	S009016
Paste Applicator Blocks for FAT-04 (2 pieces)	S010952

* FAT-04 includes 4 oz. FAA-03A ribbon forming adhesive, paste applicator blocks, cleaning swabs, CL-02 clips and SP-1 foam pads

Ribbon Forming Adhesive

A key advantage of our fiber arrangement tool is the use of the ribbon forming adhesive. Ribbons formed with this adhesive have excellent stripability, especially compared to ribbonizing methods using tape. Unlike tape methods, the paste does not “gum-up” the stripping tool and cause broken fibers. The paste holds the stripped coating residue into a single piece of debris that is easily cleaned from the stripper. If needed, the ribbon can be easily separated into individual fibers using alcohol.

FAA-03A

Ordering Information

Description	AFL No.
FAA-03A ribbon-forming adhesive (0.5 liter bottle)	S008622
FAA-03A ribbon-forming adhesive (4 oz. dispensing bottle)	S008720

Splicer V-groove Cleaning Kit

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

Refill Kit Includes

To replenish the consumables within the kit, AFL provides a refill kit that includes the following components:

- One can of FCC2 Cleaning Fluid
- One Scrubber Brush
- One Sweeper Brush
- Ten packs CS-1 Cotton Swabs (250 swabs)

Splicer V-groove Cleaning Refill Kit

Ordering Information

Description	AFL No.
Splicer V-groove Cleaning Kit	S014397
Splicer V-groove Cleaning Refill Kit	S014416
CS-1 Cotton Swabs (pack of 25 swabs)	S003719

CS-1 Cotton Swabs

Mobile Splicing Workstation

Transform your workspace with the 4-in-1 solution that revolutionizes fiber installation. AFL's Mobile Splicing Workstation isn't just portable—it's the versatile foundation for peak productivity that adapts to your changing needs. Configure the workstation as a spacious work surface, convenient dolly, sturdy scaffold, or low-profile creeper for accessing tight spaces.

This isn't merely a table. It's your complete field workshop engineered for fiber technicians. Integrated productivity features include a power strip, precision ruler, drill hole guide, dedicated cutting groove, durable steel hammer surface, streamlined accessory storage, built-in protractor and ergonomic carry handle—all in one professional-grade package.

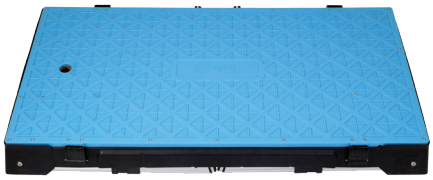
The generous work surface accommodates your entire splicing setup with ample room for tools, equipment and cable management during field operations. Enhance your workflow with the optional fiber enclosure stand, specially designed to secure AFL's Apex® Fiber Optic Splice Closure when working on high-count cable installations.

Versatility meets durability in every detail. The reversible top panel features a non-slip surface for safe scaffold functionality with an impressive 400 lb. load capacity. Integrated wheels enable smooth creeper mobility, while the rope connector transforms the unit into a robust dolly for transporting heavy equipment. The convenient carry handle ensures easy transport between job sites.

Maximize your splicer investment with the field solution that pays for itself on every job. AFL's Mobile Splicing Workstation represents AFL's commitment to innovation that addresses real-world challenges. By combining multiple functions in one premium solution, technicians can work faster, smarter, and more efficiently reducing setup time and increasing productivity on every job. Invest in the workstation that works as hard as you do.

Mobile Splicing Workstation assembled

Mobile Splicing Workstation folded - work surface



Mobile Splicing Workstation folded - non-slip surface

Mobile Splicing Workstation assembled with equipment (not included)

Mobile Splicing Workstation

Features

- Large, portable worktable to accommodate splicer, cables and enclosures
- 4-in-one operations: table, dolly, scaffold and creeper modes
- Steel frame Workstation weighs 29 lbs. with 400 lb. capacity
- Optional Universal Apex® stand mount for large projects
- Reversable from no-slip top panel to laminated work surface
- Built-in accessories: 110 V power strip, carry handle, accessory storage and more

Applications

- **Telecommunications** splicing fiber in central offices, splice points, and distribution hubs
- **FTTx deployments** when installing fiber-to-the-home, business, or curb networks
- **Data center installations** in high-density fiber connections in rack environments
- **Outside plant operations** in tight utility spaces, or challenging roadside cabinets
- **Emergency restoration** where quick, efficient splicing is needed in varied environments

Ordering Information

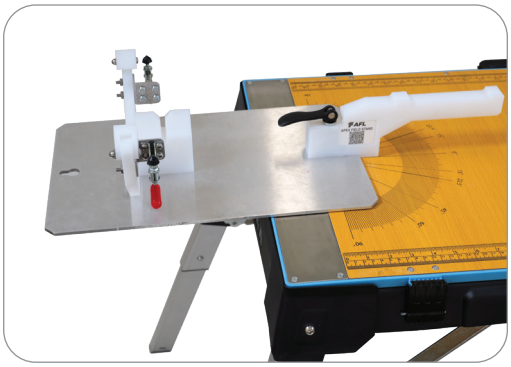
Description	AFL No.
AFL Mobile Splicing Workstation	S018625
AFL Mobile Splicing Workstation - Apex stand add-on (Includes Mobile Splicing Workstation, mounting hardware and Apex stand)	S018642
AFL Mobile Splicing Workstation with stand mounting hardware (Does not include Apex stand)	S018645
Apex Stand with mounting hardware for Workstation mounting (Does not include Mobile Splicing Workstation)	S018646

Specifications

Physical Characteristics	
Size	37.5 x 18.2 x 4.2 inches
Weight	32 lbs./14 kg
Weight Capacity:	
Workbench Mode	400 lbs./181 kg
Scaffold Mode	400 lbs./181 kg
Dolly Mode	300 lbs./136 kg
Creeper Mode	300 lbs./136 kg

Mobile Splicing Workstation accessory storage

Mobile Splicing Workstation power strip



Mobile Splicing Workstation with Apex® fixture (not included)

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Portable Splicing Worktray

As splicing requirements have migrated from aerial to ground-level locations, a sturdy, versatile splicing workstation with the ability to adjust for uneven surfaces has been missing from the splicing marketplace. That problem is solved with AFL's Portable Splicing Worktray– the critical missing link in splicing productivity.

The new Portable Splicing Worktray offers a larger, more accessible work surface than before for supporting the splicer, cleaver, and accessories as well as a sturdy tripod for mounting the work tray. The two can be purchased together as a kit or separately for those users who prefer to use their own tripod or mounting system.

The new Worktray uses a dovetail-style mounting rail under the tray, allowing quick, secure attachment to any Arca-type camera tripod head. The rail enables an improved range of adjustment while also allowing the Worktray to be quickly attached, adjusted, or detached.

The Worktray is also equipped with positioning slots on the bottom and around the side walls. The tripod is sturdy yet lightweight, weighing under four pounds. It collapses to just sixteen inches in length. The telescoping legs offer flexible height adjustments from nine inches to sixty-one inches, with the leg angle being adjustable to suit unusual terrain.

Portable Tripod Worktray Kit
(splicer equipment not included)

Worktray conveiently holds all
necessary splice equipment

Dovetail rail allows for quick installation
and release of Worktray

Features

- Large, sturdy work tray supports the splicer, cleaver and accessories with plenty of working room
- Tripod supports a load capacity of up to twenty pounds
- Independent telescoping tripod legs support uneven work surfaces
- Dovetail rail quickly and securely locks work tray into position
- Perimeter slots support temporary attachment of pigtails or custom accessories
- Versatile cleaver mounting positions to accommodate user preference
- Compatible with all FSM-17, FSM-18, FSM-50, FSM-60, 12/19/70 Series Models, 31/41/90 Series Models and 35/45 Series Models.

Ordering Information

Description	AFL NO.
Portable Tripod Worktray Kit – Includes: Tripod with pan head and quick release platform (make and model of tripod may change without notice), Portable Worktray and Thumb screw	S014773
Portable Worktray – Includes: Portable Worktray, Thumb screw	S014753
Tripod – Includes: Tripod with pan head and quick release platform (make and model of tripod may change without notice)	S014751

Optional Accessories

DESCRIPTION	AFL NO.
TS-01 TRIPOD SCREW (required for 12S & 12R models)	S015895

ASW-02 Splicing Workstation

The ASW-02 Splicing Workstation can be used with a fusion splicer and cleaver in aerial or terrestrial splicing applications. The ASW-02 provides a stable work surface and secure mounting of the splicer and cleaver to prevent accidental drops and equipment damage in challenging splicing locations.

The ASW-02 Splicing Workstation consists of the work tray, a convenient pivoting cleaver mounting arm, a post for attachment to bucket or ladder mounting accessories, a tripod mount, and dual safety straps. An aerial mounting system is available for direct attachment of the workstation to a telephone pole, or for suspending the workstation from an aerial cable strand. The strand mounting system is fully adjustable to provide for optimal location of the workstation when minimal slack fiber is available, such as in a taut-sheath cable access scenario.

In the aerial environment, the safety straps may be secured to the cable strand to provide security and aid with workstation position adjustment. The safety straps are also used to secure the workstation to the pole, and may be used to raise or lower the workstation.

Splicing Workstation

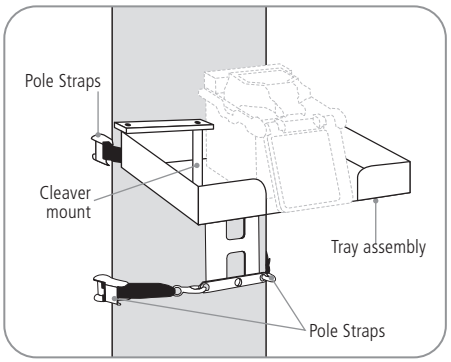
Aerial mounting system

Features

- Provides direct to pole mounting as well as direct adjustable attachment to aerial strand
- Mounting post provided for attachment to bucket and ladder mounting accessories (utilizing any popular copper splicer-head mounting rigs)
- Tripod mount allows for placement in tight FTTH splicing applications
- Includes cable tie locations to secure cables during splicing
- Optimized to simplify taut sheath splicing applications
- Cleaver mount securely captures cleaver and allows operator to rotate it in and out of the workspace as needed
- Matte finish minimizes glare
- Compatible with all FSM-17, FSM-18, FSM-50, FSM-60 and 19/70 series models

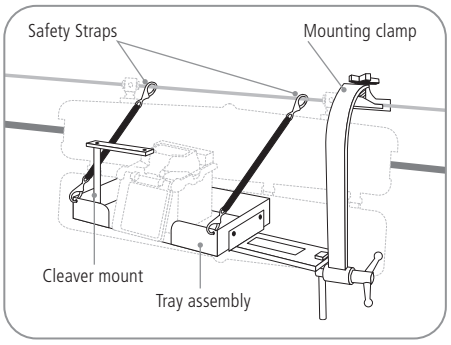
Ordering Information

Description	AFL No.
ASW-02 Splicing Workstation (Full kit with aerial mounting system) Includes aerial mounting system to provide strand and pole mounting capability, a post for attachment to bucket or ladder mount accessories and a receptacle for tripod mounting and safety straps	S010532
ASW-02 Splicing Workstation (Without aerial mounting system) Includes a post for attachment to bucket or ladder mount accessories and a receptacle for tripod mounting	S013620



Pole Mounting System

**Illustration for reference only.*

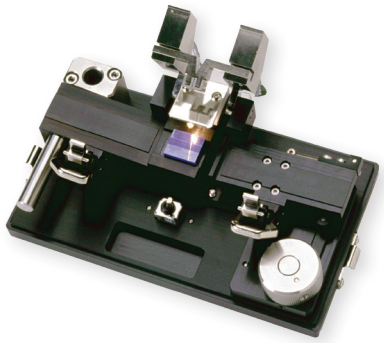


Aerial Mounting System

**Illustration for reference only.*

TJ-03 Temporary Joining Tool

The TJ-03 is a temporary mechanical fiber splice for fiber and cable connections to test equipment such as OTDRs or fiber optic cable reels. The TJ-03 uses a precision ceramic V-groove to align up to 12 fibers simultaneously. The fibers are prepared for joining by using standard mass fusion fiber preparation tools (fiber holders, thermal stripper, and cleaver.) Using the TJ-03 in conjunction with an OTDR equipped with an optical switch provides rapid one button optical tests of 12 fibers.



Features

- Precision ceramic V-groove alignment
- Built-in lamp to inspect fiber placement in V-grooves

Ordering Information

DESCRIPTION	AFL NO.
TJ-03 Temporary Splice Kit Includes: Fiber Holders (1 pair) FH-50-12N, CT50 Cleaver, RS02 Thermal Stripper, ADC-09A AC Adapter for RS02 and the ACC-09 Power Cord	S012772
TJ-03 Temporary Splice (without fiber preparation tools)	S010456

ARCMaster™

FSM-100M and FSM-100P Fusion Splicers

FSM-100M

FSM-100P

Whether splicing similar fiber types or double clad LDF fibers for high power lasers, the ARCMaster series splicers provide multiple solutions for diverse production needs. With State of the ARC™ technology, the ARCMaster sets the standard for fusion splicing with a multitude of new features designed to make splicing easier.

The patent-pending "split V-groove" fiber clamping system accommodates optical fiber ranges from 60 to 2,000 µm for cladding or coating without changing V-grooves or fiber clamps. The "Plasma Zone" fiber positioning system incorporates multiple fiber and electrode positioning techniques to provide unprecedented versatility for splicing LDF, heat sensitive or small diameter fibers.

With a new fiber imaging technology, Interrelation Profile Alignment (IPA), alignment and splicing capabilities are possible with virtually any PM fiber type. Longer fiber tapering application is possible with Fujikura's Sweep Arc technology. Incorporating PAS (cold fiber image) and WSI (warm image) technologies, the optical analysis system provides a number of advanced features including improved loss estimation capabilities, fiber image performance with both LDF, small or heat sensitive fibers.

Users can program multi-step glass processing operations to include non-splicing operations such as generating tapers or lenses. Dual LCD monitors provide enhanced data and graphical information that is user-selectable during each stage of the splicing process. Both units are designed with the needs for production in mind and are suitable for the most popular production workstations.

Features

- Split V-groove clamping system
- "Plasma Zone" fiber positioning
- PAS and WSI
- New IPA alignment method for PM fibers
- Enhanced sweep arc technology
- Zero degree fiber handling for LDF
- Special functions for glass processing capability
- Fiber profile memory function
- New arc calibration technology
- Short cleave length capability
- Fast and accurate PANDA splice mode
- Ergonomic, production friendly design
- User selectable display on dual LCD monitors
- Internet firmware updates

Ordering Information

Description	AFL No.
ARCMaster FSM-100M Fusion Splicer (machine only) **Includes:** FH-110-250 fiber holders (pair), FH-110-900 fiber holders (pair), spare electrodes (pair), ADC-15 AC adapter, ACC-02 AC power cord, USB cable, dust cleaning swab set, operation manual and software on CD, transit case, and One year factory warranty	S014821
ARCMaster FSM-100M Fusion Splicer Kit *	S014822
ARCMaster FSM-100P Fusion Splicer (machine only) **Includes:** FH-110-250 fiber holders (pair), FH-110-400 fiber holders (pair), FH-110-900 fiber holders (pair), spare electrodes (pair), ADC-15 AC adapter, ACC-02 AC power cord, USB cable, dust cleaning swab set, operation manual and software on CD, transit case, and One year factory warranty	S014823
ARCMaster FSM-100P Fusion Splicer Kit *	S014824
One year extended warranty (extends factory warranty by one year)	S012996
Two year extended warranty (extends factory warranty by two years)	S013000

* Each splicer kit includes an RS01 Thermal Stripper, a CT52 Cleaver and a SPA-RS02-08 Spacer for RS01 in addition to the items listed above.

State of the ARC™

AFL
AFLglobal.com
1 (800) 235-3423

ARCMaster™

FSM-100M and FSM-100P Fusion Splicers

Specifications

Parameter	Value
Applicable Fiber	Silica based Single-mode and Multimode glass fiber: SMF (G.652), MMF (G.651), NZDSF (G.655), EDF, DCF, LDF and PMF, etc.
Fiber Dimension	Cladding diameter: 60 to 500 µm Coating diameter: 100 to 2,000 µm
Cleave Length	Glass clamping: 8 to 10 mm (standard 9 mm) Coating clamping: 3 to 5 mm (standard 4 mm)
Typical Splice Loss	SMF: 0.03 dB MMF: 0.02 dB NZDSF/LDF: 0.05 dB PMF: 0.06 dB (FSM-100P)
Splicing Time	SMF/MMF: 15 sec. NZDSF/LDF: 25 sec. PMF (PANDA): 35 to 50 sec. (FSM-100P) PMF (IPA): 90 to 300 sec. (FSM-100P)
Polarization Cross-Talk	PMF (PANDA): -40 dB / 0.6 degree (FSM-100P) PMF (IPA): -32 dB / 1.4 degree (FSM-100P)
Return Loss	60 dB or more
Heating Time	FP-40: 30 sec. FP-60: 35 sec. Micro sleeves: 55 sec.
Sweep Length	±5 mm
Electrode Life	2,500 Arc Discharges (SMF G.652 splicing at 1mm gap)
Electrode Gap	1 to 3 mm
Electrode Offset	-0.3 to +0.1 mm
Proof Test	1.96 N to 2.45 N
Dimensions (mm)	311W x 232D x 160H
Weight (excluding AC adapter)	FSM-100M: 7.5 kg FSM-100P: 8.0 kg
Operation Temperature	0°C to 40°C at 0 to 95% RH (Non-Dew)
Storage Temperature	-40°C to 80°C
Monitor Type	Dual 4.1 inch TFT color LCD monitors
Magnification	125 µm: 187 to 300 X 250 µm: 58 to 300 X 400 µm: 58 to 93 X

Accessories for the FSM-100M and FSM-100P

Description	AFL No.
High Strength Accessories	
High Strength Preparation Kit Includes: USC-02, AFL PowerStrip and AFL PowerCleave	S013632
Ultrasonic Cleaner (USC-02)	S014783
HTS-12 High Tensile Stripper - includes 250 µm blades (400 µm available)	S012094
AFL PowerStrip High Tensile Stripper	S012808
AFL PowerCleave High Strength Cleaver	S009972
Strippers	
RS01 Thermal Stripper	S016815
RS03-80 Thermal Stripper	S016842
SPA-RS02-08 Spacer	S016818
Electrodes	
ELCT2-25 Spare Electrodes (pair)	S002068
Cleavers	
CT52 Cleaver	S017078
CT58 Cleaver (for 80 µm cladding)	S017097
Fiber Holders (Pairs)	
FH-110-60 Fiber Holder	S018215
FH-110-100 Fiber Holder	S018216
FH-110-125 Fiber Holder	S018217
FH-110-150 Fiber Holder	S018218
FH-110-180 Fiber Holder	S018219
FH-110-210 Fiber Holder	S018220
FH-110-250 Fiber Holder	S018221
FH-110-300 Fiber Holder	S018222
FH-110-350 Fiber Holder	S018223
FH-110-400 Fiber Holder	S018224
FH-110-500 Fiber Holder	S018225
FH-110-600 Fiber Holder	S018226
FH-110-700 Fiber Holder	S018227
FH-110-800 Fiber Holder	S018228
FH-110-900 Fiber Holder	S018229
Power and Cords	
ADC-15 AC Adapter (FSM-100M/P)	S014826
ACC-02 AC Power Cord	S001171
ADC-09A AC Adapter (RS01)	S016820
ACC-09 AC Power Cord (for ADC-09)	S014390
Miscellaneous	
CC-27 Transit Case (100 M/P)	S014825
DCS-01 Dust Cleaning Swab	S014827
HP Power Meter Coupling Adapter	S012180
ILX Power Meter Coupling Adapter	S012184
Fiber Holder Adapter for HP/ILX PM	S012188
Splicer V-Groove Cleaning Kit	S014397

FSR-115, FSR-116 and FSR-117 Optical Fiber Recoaters

AFL offers a complete lineup of high-quality optical fiber recoaters to reconstitute the primary coating of an optical fiber. In applications with flexible packaging requirements, high strength and high reliability splices, softer coatings for gyroscope splices, low-index coatings for power delivery and more.

The latest recoaters from Fujikura improve on their respective predecessors in numerous ways. The time to inject recoat material has been reduced by over 50% due to an improved pumping mechanism and new glass mold design. While still utilizing quartz glass, the new mold design improves both pump time and recoat length accuracy, especially for longer recoats, by improving the flow rate of material across the entire mold. The mold also features a unique RFID capability, enabling the FSR to automatically limit selectable recoat modes in the UI, based on mold size installed and recoat mode parameters. This feature speeds up application changeover and can serve as a production control measure. Further enabling ease of changeover, this FSR series includes user exchangeable inserts for different sizes and combinations of fiber coating and mold. To maintain concentricity of the fiber relative to the mold, the height of the fiber must change in the clamping system outside of the mold. This process is a simple exchange of metal inserts in the fiber clamps. For fine-tuned height adjustments, spare shims are included in every recoater shipment. Like their predecessors, the FSR-115 has no proof tension, the FSR-116 has a linear proof tester up to 2 kgf, and the FSR-117 has mandrel wraps for up to 10 kgf of tension or proof to failure for most fibers.

This generation of recoaters brings exciting benefits to the specialty fiber optic industry. Fujikura continues to lead with innovation and value in the quality solutions they develop. Put our recoaters to the test by contacting us at 1-800-235-3423.

FSR-115

FSR-116

FSR-117

Features

- RFID mold identification for simple recoat mode selection
- Easy user exchangeable mold, inserts and shims for precise concentricity in any application
- Consistent, accurate recoat lengths
- Fast pumping mechanism for cycle time reduction
- Laser light illumination of recoat mold for ease of viewing during injection
- 2 kgf or 10 kgf proof tension depending on model
- Touchscreen graphical UI

continued

FSR-115, FSR-116 and FSR-117 Optical Fiber Recoaters

Specifications

Parameter		FSR-115	FSR-116	FSR-117
Applicable optical fiber		Single Fiber		
Applicable fiber coating diameters		90-970 µm		
Recoat diameters		195 µm, 255 µm, 280 µm, 320 µm, 330 µm, 450 µm, 600 µm, 660 µm, 670 µm, 850 µm, 1000 µm Custom sizes available		
Recoat length		4 to 50 mm [1] Recoat Length Accuracy ±20% [2]		
Resin injection time		DSM 950-200: Injection 17 sec. [2] PC-373LD: 20 sec. [2]		
Resin curing time		DSM 950-200: 4 sec. [2] PC-373LD: 10 sec. [2]		
UV LEDs		UV LEDs are placed on top and bottom. Individual control of light emitting position, intensity and time are possible. UV Center Emission Wavelength Approx: 365 nm		
Mold material		Quartz		
Load application and mechanism		—	Linear Flat Clamp	Mandrel Wrap
Tension		—	0.2-2.0 kgf (1.96 N-19.61 N)	0.2-10.0 kgf (1.96 N-98.07 N)
Dimensions		252 mm (W) x 135 mm (D) x 169 mm (H)	252 mm (W) x 175 mm (D) x 169 mm (H)	
Weight		3.3 kg	4.8 kg	5.0 kg
Storage conditions		-40°C to 80°C, 0 to 95% RH non-condensing		
Operating conditions		10°C to 30°C, 0 to 95% RH non-condensing		
AC Adapter	Input power	AC 100 V to 240 V, 50/60 Hz Max, 1.5 A (ADC-21A)		
	Output power	DC 19 V, Max 2.1 A		
LCD monitor		TFT 4.95" touchscreen		
PC interface		USB 2.0 Type B mini		
Firmware update		Firmware downloaded from Fujikura servers via "Data Connection" PC Software		
Data storage	Recoating	100 programmable modes 5000 finished recoats		
	Proof testing	—	30 programmable modes 5000 finished proof test results	
Wireless communication		RFID, ISO 15693 compliant		
Proof test calibration		—	Requires FGA-02 and FGP-20 force gauge [3]	

1. Exact recoat length dependent on combination of recoat diameter, fiber coating, ambient temperature, and other environmental factors.
2. Test Conditions
- **a)** UV recoat resin: DSM 950-200 or Luvantix ADM Ltd. PC-373LD
- **b)** Recoat diameter: 280 µm
- **c)** Recoat length: 20 mm
- **d)** Fiber: 125 µm cladding with transparent UV acrylate 250 µm coating diameter, strip length 16 mm
- **e)** Temperature: 25°C

3. FGP-20 is manufactured by Nidec-Shimpo Co. Ltd. and not provided by AFL.

continued

FSR-115, FSR-116 and FSR-117 Optical Fiber Recoaters

Ordering Information — Recoaters

For a fully operable recoater, required components are: FSR-115/116/117 recoater body (1), FSR-115/116/117 mold (1) and FSR-115/116/117 insert pair (1).

Part numbers below with "Kit" in the description include all three components.

Description	AFL No.
FSR-115 Recoater Body Includes: FSR-115, ADC-21 AC adapter, ACC-09 AC power cord, FSR-115/116/117 insert shim set, FSR-115/116/117 insert set screws, HEX-04 hex wrench, USB-01 USB Cable, QRG-08-E quick reference guide, and One year factory warranty	S018142
FSR-116 Recoater Body Includes: FSR-116, ADC-21 AC adapter, ACC-09 AC power cord, PC-02 protection cover, FSR-115/116/117 insert shim set, FSR-115/116/117 insert set screws, HEX-04 hex wrench, USB-01 USB Cable, QRG-08-E quick reference guide, and One year factory warranty	S018143
FSR-117 Recoater Body Includes: FSR-117, ADC-21 AC adapter, ACC-09 AC power cord, PC-03 protection cover, FSR-115/116/117 insert shim set, FSR-115/116/117 insert set screws, HEX-04 hex wrench, USB-01 USB Cable, QRG-08-E quick reference guide, and One year factory warranty	S018144
FSR-115 Kit with 280 µm mold and 225-275 µm inserts Includes: FSR-115, 280 µm mold, 225-275 µm inserts, ADC-21 AC adapter, ACC-09 AC power cord, FSR-115/116/117 insert shim set, FSR-115/116/117 insert set screws, HEX-04 hex wrench, USB-01 USB Cable, QRG-08-E quick reference guide, and One year factory warranty	S018170
FSR-116 Kit with 280 µm mold and 225-275 µm inserts Includes: FSR-116, 280 µm mold, 225-275 µm inserts, ADC-21 AC adapter, ACC-09 AC power cord, PC-02 protection cover, FSR-115/116/117 insert shim set, FSR-115/116/117 insert set screws, HEX-04 hex wrench, USB-01 USB Cable, QRG-08-E quick reference guide, and One year factory warranty	S018171
FSR-117 Kit with 280 µm mold and 225-275 µm inserts Includes: FSR-117, 280 µm mold, 225-275 µm inserts, ADC-21 AC adapter, ACC-09 AC power cord, PC-03 protection cover, FSR-115/116/117 insert shim set, FSR-115/116/117 insert set screws, HEX-04 hex wrench, USB-01 USB Cable, QRG-08-E quick reference guide, and One year factory warranty	S018172

Accessories

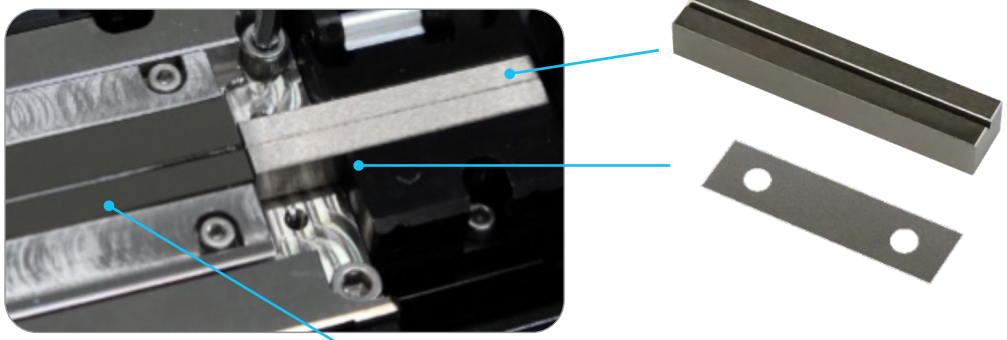
Description	AFL No.
MOLDS	
FSR-115/116/117 195 µm Mold	S018146
FSR-115/116/117 255 µm Mold	S018147
FSR-115/116/117 280 µm Mold	S018145
FSR-115/116/117 320 µm Mold	S018148
FSR-115/116/117 330 µm Mold	S018149
FSR-115/116/117 450 µm Mold	S018150
FSR-115/116/117 600 µm Mold	S018151
FSR-115/116/117 650 µm Mold	S018152
FSR-115/116/117 670 µm Mold	S018153
FSR-115/116/117 850 µm Mold	S018154
FSR-115/116/117 1000 µm Mold	S018155
INSERTS	
FSR-115/116/117 Inserts (90-110 µm fiber coating)	S018156
FSR-115/116/117 Inserts (110-140 µm fiber coating)	S018157
FSR-115/116/117 Inserts (140-180 µm fiber coating)	S018158
FSR-115/116/117 Inserts (180-225 µm fiber coating)	S018159
FSR-115/116/117 Inserts (225-275 µm fiber coating)	S018160
FSR-115/116/117 Inserts (250-350 µm fiber coating)	S018161
FSR-115/116/117 Inserts (350-450 µm fiber coating)	S018162
FSR-115/116/117 Inserts (450-550 µm fiber coating)	S018163
FSR-115/116/117 Inserts (540-660 µm fiber coating)	S018164
FSR-115/116/117 Inserts (660-810 µm fiber coating)	S018165
FSR-115/116/117 Inserts (810-970 µm fiber coating)	S018166

Description	AFL No.
MISCELLANEOUS	
Protection cover for FSR-116: PC-02	S016107
Protection cover for FSR-117: PC-03	S016108
FSR-115/116/117 Insert Set Screws (QTY: 5)	S018169
FSR-115/116/117 Insert Shim Set	S018167
UV resin bottle: FSR-05-BTL-01	S016112
Force gauge adaptor: FGA-02	S016113
AC adapter ADC-21	S018168
AC power cord ACC-09	S014390

continued

FSR-115, FSR-116 and FSR-117 Optical Fiber Recoaters

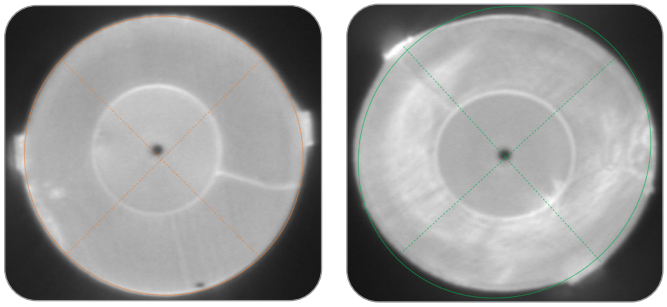
New Insert System



Insert for initial fiber height adjustment

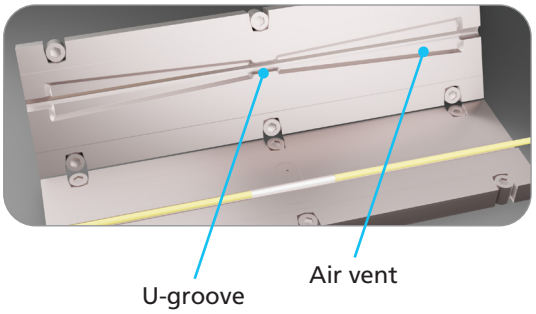
Shim underneath insert for fine-tuned height adjustments

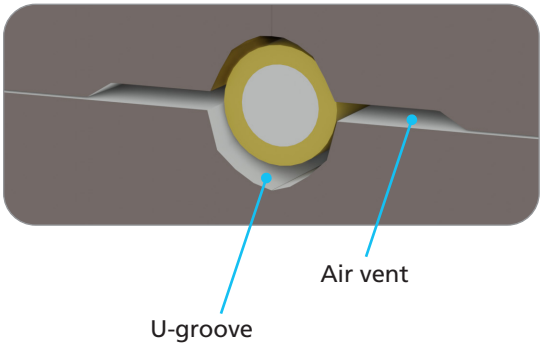
Simple. Repeatable. Concentric.



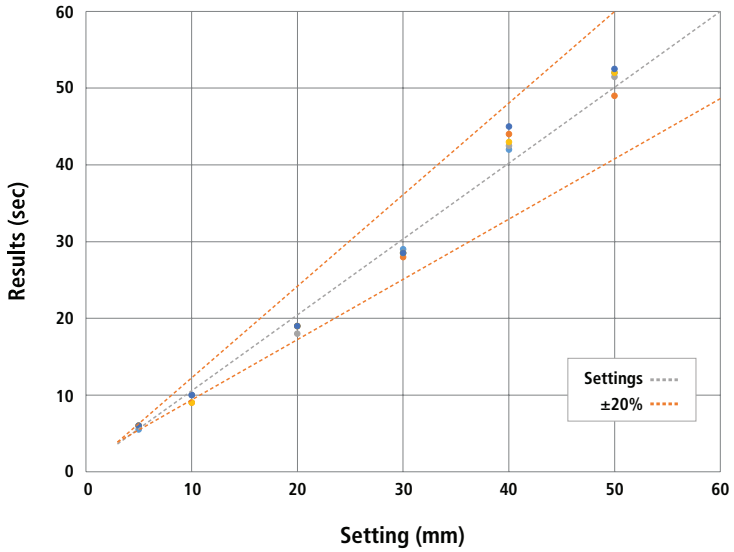
Others FSR-115/116/117

Improved Mold Design





Comparison Recoat Length Settings vs. Results[1]

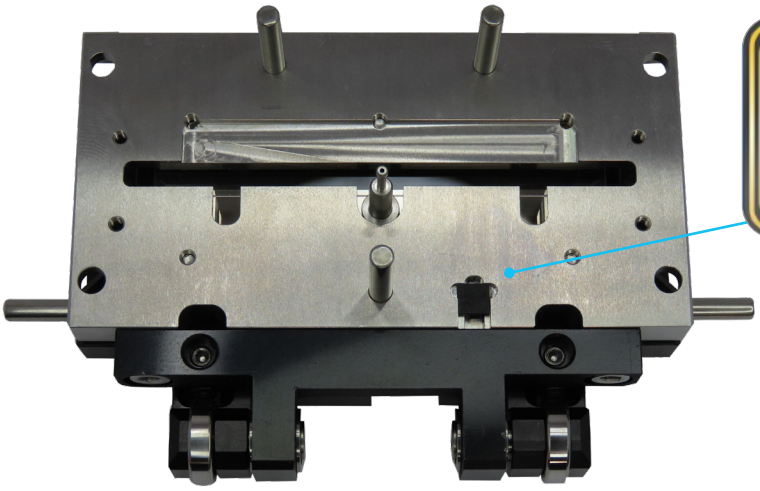


1. The table does not guarantee the recoat length accuracy. Test conditions: (1) UV recoat Resin: Japan Fine Coatings Co., Ltd. 950Y200; (2) Recoat diameter: 280 µm; (3) Recoat Length: 10-50 mm; (4) Fiber: Clad Diameter 125 µm/Transparent UV 250 µm Coating Diameter, Coating Stripping length 60 mm; and (5) Environmental Condition: 25°C

continued

FSR-115, FSR-116 and FSR-117 Optical Fiber Recoaters

RFID for Mold Identification by the FSR

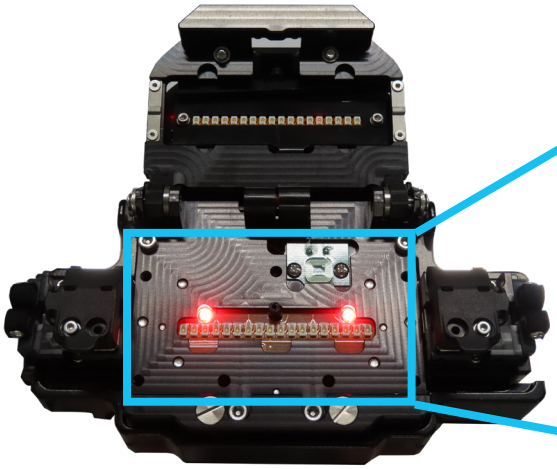


Underside of Mold

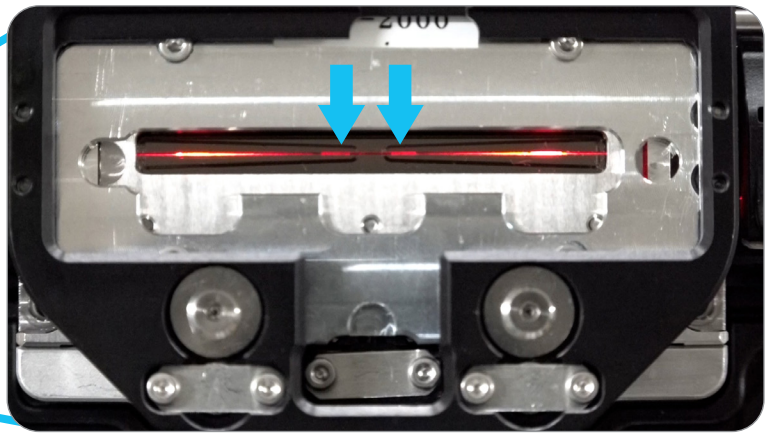
RFID Chip

Suggests suitable programs

Improved Viewing During Injection



Mold Removed



Mold Viewing Window

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Splice Protection Sleeves

AFL offers a wide selection of fiber protection sleeves to meet any application. The FP series is the industry standard for durable and lasting protection of single fiber splices in field installations, while the FP-04(T) and FP-05 provide the same durable protection for 8 and 12 fiber ribbon respectively.

The FPS01 and FPS04 series are specially designed for optical components, where small packaging is a priority. These micro sleeves provide the known reliability of Fujikura sleeves in the smallest possible lengths. This easy and cost effective method is a great alternative to recoating. The FPS01 and FPS04 series offer a wide range of options to accommodate various coating sizes, and are manufactured in a variety of lengths. This gives great flexibility in designing optical modules.

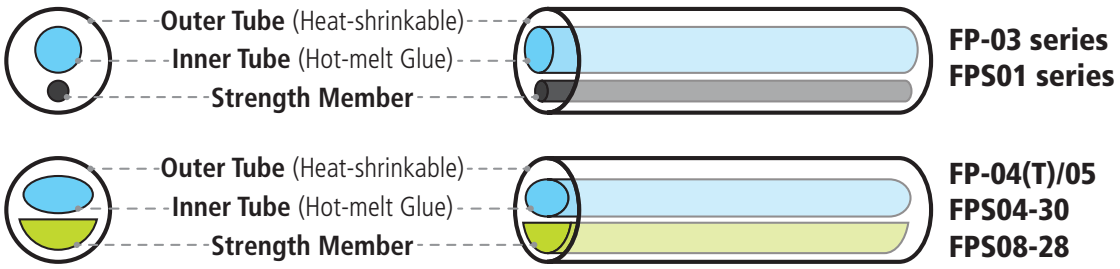
Standard Sleeves: Dimensions & Applicable Fiber

Description	Sleeve Length	Fiber Cleave Length	Sleeve Diameter After Shrink	MOQ & MOM	AFL No-.
FP-40 Slim Protection Sleeve	40 mm	10 mm	2.3 mm (max.)	1,000 & 100	S018262
FP-60 Slim Protection Sleeve	60 mm	10 mm	2.3 mm (max.)	1,000 & 100	S018263
FP-60	60 mm	10 mm	3.1 mm (max.)	1,000 & 100	S015915
FP-40	40 mm	10 mm	3.1 mm (max.)	1,000 & 100	S015916

Description	Fiber Count	Sleeve Length	Fiber Cleave Length	Sleeve Diameter After Shrink	MOQ & MOM	AFL No.
FP-04(T)	Up to 8 fibers	40 mm	10 mm	4.0 mm (max.)	250 & 250	S002105
FP-05	Up to 12 fibers	40 mm	10 mm	4.5 X 4.0 mm (max.)	250 & 250	S003027
FP-05-28	Up to 12 fibers	28 mm	10 mm	4.5 mm (max.)	5,000 & 250	S014720
FPS04-30	Up to 4 fibers	30 mm	10 mm	2.4 mm (max.)	250 & 250	S010848
FPS08-28	Up to 8 fibers	28 mm	10 mm	3.3 X 2.7 mm (max.)	500 & 500	S013560
FPS24-40	Up to 24 fibers	40 mm	10 mm	8.0 X 4.0 mm (max.)	200 & 200	S013004

Specifications

Parameter	Description	Value
Outer tube	FP-60/40/03 series FPS-04(T) / FP-05	Polyolefin based on Polyethylene Ethylene-Vinyl Acetate
Inner Tube	ALL	Ethylene-Vinyl Acetate
Strength member	FP-60/40/03 series FP-04(T) / FP-05	Stainless steel Heat-resistant glass
Operation condition (after shrink)		-10 to 50°C, 0 to 95% RH (Non dew)
Storage condition (before shrink)		-40 to 60°C, Non dew



Splice Protection Sleeves

Micro Sleeves: Dimensions & Applicable Fiber

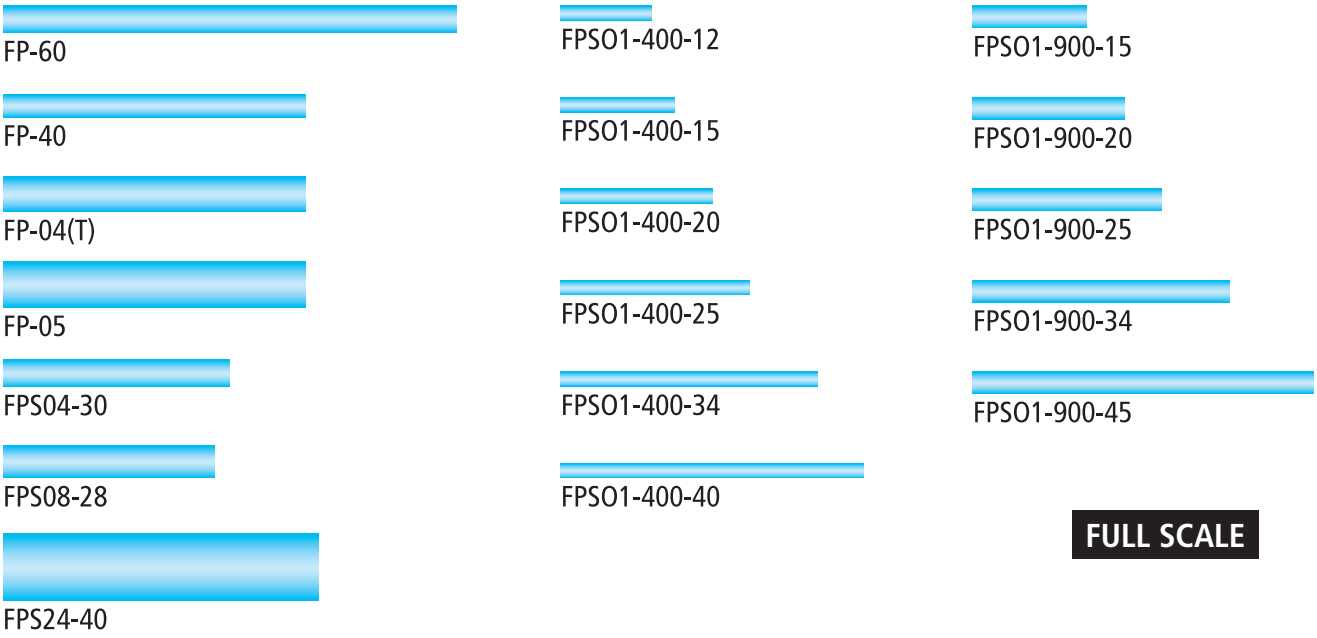
Description	Sleeve Length	Fiber Cleave Length	Sleeve Diameter After Shrink	Packaging	AFL No.
FPS01-400-12	12 mm	4 mm	1.5 mm	50 Pack	S014088
FPS01-400-15	15 mm	5 mm	1.5 mm	50 Pack	S012668
FPS01-400-20	20 mm	8 mm	1.5 mm	50 Pack	S012672
FPS01-400-25	25 mm	10 mm	1.5 mm	50 Pack	S012676
FPS01-400-34	34 mm	15 mm	1.5 mm	50 Pack	S012680
FPS01-400-40	40 mm	16 mm	1.5 mm	1,250 Box	S011914

Description	Sleeve Length	Fiber Cleave Length	Sleeve Diameter After Shrink	Packaging	AFL No.
FPS01-900-15	15 mm	4 mm	2.3 mm	50 Pack	S012684
FPS01-900-20	20 mm	6 mm	2.3 mm	50 Pack	S012688
FPS01-900-25	25 mm	6 mm	2.3 mm	50 Pack	S011954
FPS01-900-34	34 mm	13 mm	2.3 mm	50 Pack	S012692
FPS01-900-45	45 mm	16 mm	2.3 mm	50 Pack	S012696

Specifications

Parameter	Description	Value
Outer tube	FPS01 series / FPS04-30 / FPS08-28 / FPS24-40	Polyolefin based on Polyethylene
Inner Tube	ALL	Ethylene-Vinyl Acetate
Strength member	FPS01 series	Stainless steel
	FPS04-30 / FPS08-28 / FPS24-40	Heat-resistant glass
Operation condition (after shrink)		-10 to 50°C, 0 to 95% RH (Non dew)
Storage condition (before shrink)		-40 to 60°C, Non dew

Type Variations



CT52 Fiber Cleaver

The CT52 cleaver is designed for use with Fujikura factory model fusion splicers. Modified clamping pads on the CT52 allow for shorter cleave lengths with fiber coating >250 µm. The CT52 provides unprecedented durability and simplistic maintenance unseen with any other cleaver. Cleaver blade life is easily managed and maximized via Bluetooth connection with a convenient smartphone app. Incorporating motorized push-button blade rotation and a convenient thumbwheel for blade height adjustment, routine cleaver adjustments have never been easier! The 16 position blade yields 60,000 cleaves providing for extended intervals between blade replacement. The CT52 is designed for use with either Fujikura FH-100 or FH-70 series fiber holders, but can also be used with the optional adapter plate to eliminate the need for fiber holders if desired. When utilized with the optional spacers for the cleaver and RS series thermal stripper, six different cleave lengths can be easily attained.

Bluetooth®

Shown in CC-37 Carrying Case

Specifications

Item		Value
Applicable Fiber	Fiber type	Single-mode optical fiber
		Multimode optical fiber
	Fiber count	Up to 12 fiber ribbon
	Cladding dia.	Approx. 125 µm
Applicable Coating	Fiber plate	AD-10-M24 : Max. 900 µm coating diameter AD-50 : Max. 3 mm coating diameter
	Fiber holder	Coating shape. : Refer to splicer fiber holder options
Cleave Length	Fiber plate	CD = Coating Diameter AD-10-M24 3 to 20 mm for CD ≤ 250 µm 8 to 20 mm for CD 251 – 400 µm AD-50 CD= 250 µm or less : 3 to 20mm 250 µm < CD < 1000 µm : 8 to 20 mm 1000 µm < CD < 3 mm : 14 to 20 mm
	Fiber holder	See Cleaver Selection table on next page
Cleave Angle	Single fiber Fiber ribbon	Avg. 0.3 to 0.9 degrees Avg. 0.3 to 1.2 degrees
Blade Life		Approx. 60,000 fiber cleaves
Physical description	Dimensions W Dimensions D Dimensions H Weight	Approx. 120 mm when closing the lever Approx. 95 mm when closing the lever Approx. 58 mm when closing the lever Approx. 305 g including battery and AD-10-M24
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
Battery		2 pieces of LR03/AAA dry battery
Wireless interface		Bluetooth 4.1 LE
Screw hole for tripod		1/4-20UNC
Other features	Blade rotation	Motorized rotation Manual rotation dial
	Replaceable parts	Blade Clamp arm

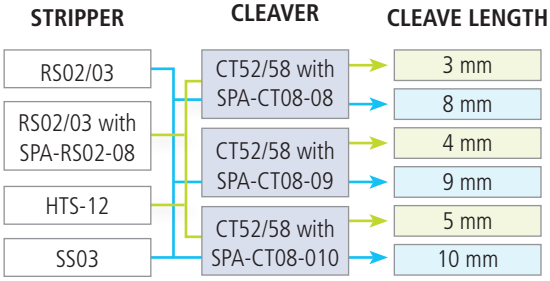
Features

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

SAFELY DROP FROM 30"

CT52 Fiber Cleaver

Cleaver Selection



Ordering Information

Description	Application	AFL No.
CT52 includes: CT52 cleaver, SPA-CT08-09 cleaver spacer, hex wrench, carrying case and instruction manual	Single Fibers: 125 µm cladding	S017078

Accessories

Description	AFL No.
CB-08 Replacement Blade	S017076
CC-37 Transit Case	S017077
AD-10-M24 Adapter Plate	S017335
SPA-CT08-10 Spacer	S017011
SPA-CT08-09 Spacer	S017390
SPA-CT08-08 Spacer	S017391
ARM-CT52-01 Replacement Arm Set	S017388
FDB-05 Fiber Dust Box	S017121
BRW-CT08-01 Blade Rotary Wheel	S017110
SC-CT50-01 Side Cover	S017108

Splice+ is a smartphone application that works in cooperation with Fujikura's splicers, cleavers and ribbon fiber strippers which have Bluetooth capability.

Get the **Splice+** app at the Apple App store or at Google Play.

Available on the iPhone App Store

ANDROID APP ON Google play

AFLglobal.com
1 (800) 235-3423

CT58 Fiber Cleaver

The CT58 cleaver is designed specifically for cleaving silica fibers with 80 µm cladding and up to 400 µm coatings. The CT58 provides unprecedented durability and simplistic maintenance unseen with any other cleaver. Cleaver blade life is easily managed and maximized via Bluetooth connection with a convenient smartphone app. Incorporating motorized push-button blade rotation and a convenient thumbwheel for blade height adjustment, routine cleaver adjustments have never been easier! The 16 position blade yields 60,000 cleaves providing for extended intervals between blade replacement. The CT58 is designed for use with either Fujikura FH-100 or FH-70 series fiber holders, but can also be used with the optional adapter plate to eliminate the need for fiber holders if desired. When utilized with the optional spacers for the cleaver and RS03-80 thermal stripper, six different cleave lengths can be easily attained.

Shown in CC-37 Carrying Case

Specifications

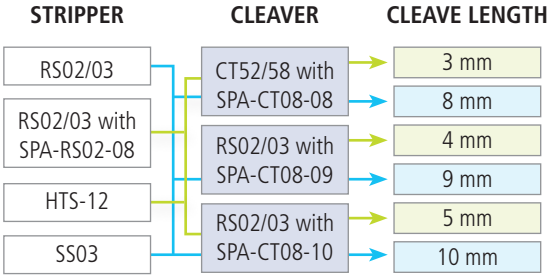
Item		Value
Applicable Fiber	Fiber type	Single-mode optical fiber
		Multimode optical fiber
	Fiber count	Single
	Cladding dia.	Approx. 80 µm
Applicable Coating	Fiber plate	AD-10-M24 : Max. 400 µm coating diameter AD-50 : Max. 400 µm coating diameter
	Fiber holder	Coating shape. : Refer to splicer fiber holder options
Cleave Length	Fiber plate	CD = Coating Diameter AD-10-M24 3 to 20 mm for CD ≤ 250 µm 8 to 20 mm for CD 251 – 400 µm AD-50 CD= 250 µm or less : 3 to 20 mm 250 µm < CD < 400 µm : 8 to 20 mm
	Fiber holder	See Cleaver Selection table on next page
Cleave Angle	Single fiber	Avg. 0.3 to 0.9 degrees
Blade Life		Approx. 60,000 fiber cleaves
Physical description	Dimensions W Dimensions D Dimensions H Weight	Approx. 90 mm when closing the lever Approx. 95 mm when closing the lever Approx. 58 mm when closing the lever Approx. 265 g
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
Battery		2 pieces of LR03/AAA dry battery
Wireless interface		Bluetooth 4.1 LE
Screw hole for tripod		1/4-20UNC
Other features	Blade rotation	Motorized rotation
		Manual rotation dial
	Replaceable parts	Blade
		Clamp arm

Features

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

CT58 Fiber Cleaver

Cleaver Selection



Ordering Information

Description	Application	AFL No.
CT58 includes: CT58 cleaver, SPA-CT08-09 cleaver spacer, hex wrench, carrying case and instruction manual	Single Fibers: 80 µm cladding	S017097

Accessories

Description	AFL No.
CB-08 Replacement Blade	S017076
CC-37 Transit Case	S017077
AD-10-M24 Adapter Plate	S017335
SPA-CT08-10 Spacer	S017011
SPA-CT08-09 Spacer	S017390
SPA-CT08-08 Spacer	S017391
ARM-CT58-01 Replacement Arm Set	S017389
BRW-CT08-01 Blade Rotary Wheel	S017110
SC-CT50-01 Side Cover	S017108

Splice+ is a smartphone application that works in cooperation with Fujikura's splicers, cleavers and ribbon fiber strippers which have Bluetooth capability.

Get the **Splice+** app at the Apple App store or at Google Play.

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CT-114, CT-115 and CT-116 Fiber Cleavers

Fujikura's lineup of high-quality, large diameter optical fiber cleavers is built to achieve low cleave angles with pristine end-faces for a vast array of fiber types. These cleavers are heavily utilized in fiber preparation for fusion splicing of standard data communication fibers, octagonal or round large diameter fibers (LDF), polarization maintaining fibers, photonic crystal fibers and even component manufacturing with capillary tubes, ball lenses, end caps and more.

Automation was a key theme during design of these products. The aim was to enable smarter, faster and more reliable decisions than previously capable via operator trial and error. Leveraging the success of their predecessors, the CT-115 and CT-116 fiber clamps will automatically adjust the clamping force to provide the most optimal cleave angle for any fiber in the machine. The fiber backstop position is newly automated to find the optimum location for best cleave angle performance. Microns adjustments can make the difference in achieving required cleave angles for many fibers. As a manual process, this is very difficult to optimize, but this new automation removes this painstaking process. With the unheard-of long blade life of all three cleavers, blade position changes are infrequent, but when needed, the blade will index to the next position automatically, driven by a motorized blade assembly.

As an industry first, this generation LDF cleaver has an RFID sensor which matches the RFID tag on every FH-110 series fiber holder. These cleavers have a new fiber holder management menu where users can pair a fiber holder to a cleave mode. In this menu, each fiber holder has a unique RFID and a user defined name for simple setup of fiber holder and cleave mode combinations. The cleaver utilizes the pairings in this menu to automatically change the cleave mode based on the fiber holder recognized by the cleaver's RFID sensor. This can be used as either a process control measure, or to aid in cleave optimization.

This line of LDF cleavers brings exciting benefits to the specialty fiber optic industry, which promise to yield tangible benefits to its users. Fujikura continues to lead with innovation and value in the quality solutions they develop. Put our LDF cleavers to the test by contacting us at 1-800-235-3423.

CT-115

CT-116

continued

CT-114, CT-115 and CT-116 Fiber Cleavers

CT-114 Features

- 80-660 µm cladding diameter
- Automatic blade position change
- RFID fiber holder identification
- Manual fiber clamping and backstop adjustment
- 200,000 cleaves per blade for 250 µm fiber
- PC software and manual downloadable via USB

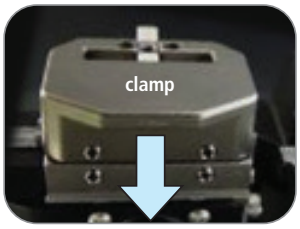
CT-115 Features

- 80-1,250 µm cladding diameter
- Automatic fiber clamping, backstop adjustment and blade position change
- RFID fiber holder identification
- 200,000 cleaves per blade for 250 µm fiber
- PC software and manual downloadable via USB

CT-116 Features

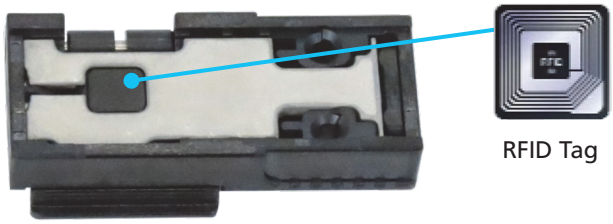
- 80-1,250 µm cladding diameter
- Automatic fiber clamping, backstop adjustment and blade position change
- RFID fiber holder identification
- 200,000 cleaves per blade for 250 µm fiber
- Angled cleaving function (up to 15°)
- PC software and manual downloadable via USB

Angled Cleaving
Angled cleaving up to 15° (only CT-116)



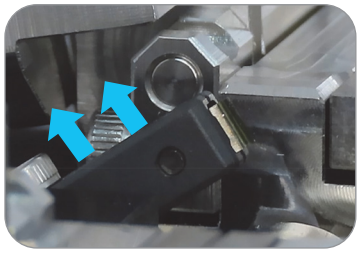
Automatic Clamp Function
CT-115 and CT-116 self-optimizes and applies the clamp force automatically for best cleave results without trial and error.

Backstop
CT-115 and CT-116 automated backstop prevents time and fiber waste with self-optimized positioning for best cleave results.



RFID Tag

RFID Fiber Holder System
RFID identification with FH-110 series fiber holders improves quality control in manufacturing and when changing applications in an R&D environment.



Automatic Blade Position Change
Cleaver blade position indexing driven by a motor to remove user error from this critical process.

continued

CT-114, CT-115 and CT-116 Fiber Cleavers

Specifications

Parameter		CT-114	CT-115	CT-116
Fiber type		Silica optical fibers and capillary tubes		
Fiber count		Single		
Cladding diameter		80-660 µm	80-1,250 µm	
Coating diameter		81-3,182 µm		
Fiber clamping		Manual [1]	Automatic via motor	
Backstop adjustment		Manual	Automatic via motor	
Tension range [2]		0 to 3,000 gf (29.4 N)	0 to 10,000 gf (98.1 N)	
Cleaving length [3]		30-75 mm		
Cleaving angle		Average 0.2° (Cladding diameter 125 µm)		
		Average 0.3° (Cladding diameter 400 µm)		
		Average 0.4° (Cladding diameter 660 µm) [5]	Average 1.0° (Cladding diameter 1,000 µm) [5]	
Angled cleaving		–	–	0-15° (0 to 180° on cleaver rotator) [6]
Blade life [7]		200,000 fibers (10,000 fibers x 20 positions for 250 µm cladding fiber)		
Dimensions (WxDxH)		240 x 133 x 142 mm without projections		240 x 133 x 151 mm without projections
Weight		3.6 kg without inserts and with fiber holder adapter	3.9 kg without inserts and with fiber holder adapter	4.2 kg without inserts and with fiber holder adapter
Humidity		0 to 95% RH, non-condensing (operation and storage)		
Temperature		0°C to 40°C (operation) -40°C to 80°C (storage)		
Number of cleaving modes		Maximum 100		
Cleave results		10,000 cleave data		
AC Adapter		Input: AC 100 V to 240 V (50 or 60 Hz) (max. 1.5 A) Output: DC 19 V, Max. 2.1 A		
Display		TFT 4.95" touch screen LCD monitor		
Interface	PC	USB 2.0 (Mini-B type) for PC communication		
	Ground point	Applicable by M3 size truss screw		
Wireless communication	RFID	Compliant with ISO 15693		
Other Features	Automatic Functions	Automatic cleave mode selection via RFID tag Motorized blade position change Automatic tension adjustment		
PC Software		Firmware update via internet		
		Cleave mode and parameter upload and download		

Notes:

1. For cladding diameter less than 400 µm, use magnets. For cladding diameter 400-660 µm, use both magnets and clamp lid screw. Clamp lid screw may be necessary depending on the fiber type when it is also under 400 µm.
2. There are some cases where the set tension is different from the actual tension.
3. Cleave length is defined as the distance between the left-side fiber clamp and the end-face of the cleaved fiber.
4. Measured with an interferometer at room temperature. A new blade was used to cleave each fiber. The average cleave angle changes depending on operational conditions such as blade condition, operation method and cleanliness.
5. Measured with an FSM-100P+ splicer at room temperature. A new blade was used to cleave each fiber. The average cleave angle changes depending on operational conditions such as blade condition, operating method and cleanliness.
6. Maximum angled cleave changes depending on the fiber type cleaved and clamp position.
7. The blade life changes depending on the operational conditions such as blade condition, operating method, cleanliness and fiber type cleaved.

continued

CT-114, CT-115 and CT-116 Fiber Cleavers

Ordering Information

Description	AFL No.
CT-114 LDF Cleaver includes: ADC-21 AC adapter; ACC-09 AC power cord; FHA-CT115 fiber holder adapter; CM-CT115 fiber height mirror; x3 each SPA-CT105-30, 50 and 100 shims; x15 set screws for inserts; HEX-01 hex wrench; USB-01 USB Cable; TR-CT115-E Technical reference manual; and One year factory warranty	S018182
CT-115 LDF Cleaver includes: ADC-21 AC adapter; ACC-09 AC power cord; FHA-CT115 fiber holder adapter; CM-CT115 fiber height mirror; x3 each SPA-CT105-30, 50 and 100 shims; x15 set screws for inserts; HEX-01 hex wrench; USB-01 USB Cable; TR-CT115-E Technical reference manual; and One year factory warranty	S018183
CT-116 Angled LDF Cleaver includes: ADC-21 AC adapter; ACC-09 AC power cord;, FHA-CT115 fiber holder adapter; CM-CT115 fiber height mirror; x3 each SPA-CT105-30, 50 and 100 shims; x15 set screws for inserts; HEX-01 hex wrench; USB-01 USB Cable; TR-CT115-E Technical reference manual; and One year factory warranty	S018184

Accessories

Description	AFL No.
Fiber Holder Inserts	
Master fiber holder insert kit (includes upper and lower inserts from 80-1750)	S016098
INSERT-L-80	S016085
INSERT-L-125	S016086
INSERT-L-160	S016087
INSERT-L-250	S016088
INSERT-L-400	S016089
INSERT-L-500-750	S016090

Description	AFL No.
Fiber Holder Inserts (continued)	
INSERT-L-1000-1250	S016091
INSERT-L-1500-1750	S016092
INSERT-L-2000-2250	S016093
INSERT-L-2500-3000	S016094
INSERT-U-80-400	S016079
INSERT-U-500-750	S016080
INSERT-U-1000-1250	S016081
INSERT-U-1500-1750	S016082
INSERT-U-2000-2250	S016083
INSERT-U-2500-3000	S016084

Description	AFL No.
Height adjusting shim (10-piece pack)	
SPA-CT105-30 (30 µm)	S016095
SPA-CT105-50 (50 µm)	S016096
SPA-CT105-100 (100 µm)	S016097
Miscellaneous Items	
FHA-CT115 Fiber holder adapter	S018211
CM-CT115 Fiber height mirror	S018212
TD-01 Torque Driver	S016738
CB-06A Replacement Blade	S016078
AC adapter ADC-21	S018168
AC power cord ACC-09	S014390

Fiber Holders

Description	AFL No.
FH-110-60 Fiber Holder	S018215
FH-110-100 Fiber Holder	S018216
FH-110-125 Fiber Holder	S018217
FH-110-150 Fiber Holder	S018218
FH-110-180 Fiber Holder	S018219
FH-110-210 Fiber Holder	S018220
FH-110-250 Fiber Holder	S018221
FH-110-300 Fiber Holder	S018222
FH-110-350 Fiber Holder	S018223
FH-110-400 Fiber Holder	S018224
FH-110-500 Fiber Holder	S018225
FH-110-600 Fiber Holder	S018226
FH-110-700 Fiber Holder	S018227

Description	AFL No.
FH-110-800 Fiber Holder	S018228
FH-110-900 Fiber Holder	S018229
FH-110-1000 Fiber Holder	S018230
FH-110-1100 Fiber Holder	S018231
FH-110-1200 Fiber Holder	S018232
FH-110-1300 Fiber Holder	S018233
FH-110-1400 Fiber Holder	S018234
FH-110-1500 Fiber Holder	S018235
FH-110-1600 Fiber Holder	S018236
FH-110-1700 Fiber Holder	S018237
FH-110-1800 Fiber Holder	S018238
FH-110-1900 Fiber Holder	S018239
FH-110-2000 Fiber Holder	S018240

continued

CT-114, CT-115 and CT-116 Fiber Cleavers

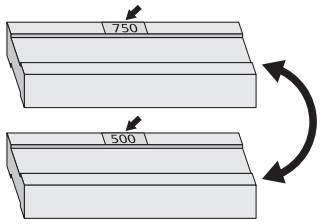
Insert Selection Guide

Upper Insert												
LOWER INSERT		INSERT-U-80-400	INSERT-U-500-7501		INSERT-U-1000-12501		INSERT-U-1500-17501		INSERT-U-2000-22501		INSERT-U-2500-30001	
			500	750	1000	1250	1500	1750	2000	2250	2500	3000
INSERT-L-80		54-107										
INSERT-L-125		84-167										
INSERT-L-160		115-213										
INSERT-L-250		167-333										
INSERT-L-400		267-533	400-533									
INSERT-L-500-750[1]	500	334-667	467-667	550-667								
	750		634-868	717-1000	787-1000							
INSERT-L-1000-1250[1]	1000			884-1118	954-1188	1037-1272						
	1250				1120-1355	1204-1438	1287-1522					
INSERT-L-1500-1750[1]	1500					1370-1605	1454-1688	1537-1772				
	1750						1620-1855	1704-1938	1780-2015			
INSERT-L-2000-2250[1]	2000							1870-2115	1947-2288	2030-2265		
	2250								2114-2348	2197-2432	2280-2515	
INSERT-L-2500-3000[1]	2500									2364-2598	2447-2682	2614-2848
	3000										2780-3015	2947-3182

Note:
1. Each side of this insert is equipped with a groove that is marked with the size of the fiber diameter on the table.

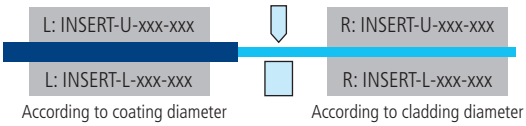
Upper and lower inserts can be changed up or down depending on required fiber fit into the V-groove.

Inserts 500 µm and above are double-sided. Therefore, the visible label when inserted indicates the size of the insert you are using.



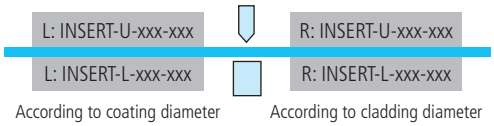
Upper and lower inserts are necessary for both left and right side clamps.

Case 1: Cleaving coating-stripped fiber



Inserts according to both coating diameter and cladding diameter are necessary.

Case 2: Cleaving glass rod

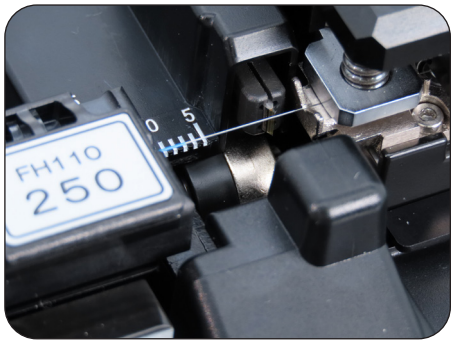


Two insert pairs of the same size according to rod diameter are necessary.

CT-110 and CT-111 Tension-Method Fiber Cleavers

The CT-110 tension-method cleaver and CT-111 tension-method cleaver with additional angled cleaving features are built to provide precision cleaves for a vast array of fiber types. These cleavers are heavily relied upon for fiber preparation of standard data communication fibers, polarization maintaining fibers, photonic crystal fibers, and even component manufacturing of ball lenses, end caps, and more. Leveraging the success of their predecessors, the CT-110 and CT-111 achieve industry leading performance in a small form factor, and with the option to operate cordless. With the industry leading blade life of both cleavers, blade position changes are infrequent, but when needed, the blade will index to the next position automatically driven by a motorized blade assembly. A record of the cleave count by blade position is displayed via the accompanying PC software for maximizing blade life.

As an industry first, these tension-method cleavers possess an RFID sensor which matches the RFID tag on the new FH-110 series fiber holders. The PC software for these cleavers has a new fiber holder management menu, where users can pair a fiber holder to a cleave mode. In this menu, each fiber holder's unique RFID and user defined name are used for assigning fiber holder and cleave mode combinations. The cleaver utilizes the assignments in this menu to automatically change the cleave mode based on the fiber holder recognized by the cleaver's RFID sensor. This can be used as either a process control measure, or to aid in cleave optimization. Cleave mode parameters can also be edited, uploaded, or downloaded to & from the cleaver via this software.



CT-110 Blade

This category of tension-method cleavers brings exciting benefits to the specialty fiber optic industry. Fujikura continues to lead with innovation and value in the quality solutions they develop. Put our cleavers to the test by contacting us at 1-800-235-3423.

Features

- RFID fiber holder identification and cleave mode selection
- Lightweight and cordless operation
- Motorized blade changes with no manual disassembly or adjustments
- Angled cleaves up to 15 degrees with CT-111
- Fine-tuned coating and total length adjustments post-cleave
- Tension digitally adjusted and automatically applied according to cleave mode
- PC Software for blade & fiber holder management downloaded from CT-110/111

continued

CT-110 and CT-111 Tension-Method Fiber Cleavers

Specifications

Parameter		CT-110	CT-111
Applicable Fiber	Fiber Type	Silica Fiber	
	Fiber Count	Single Fiber	
	Cladding Diameter	80 to 250 µm	
	Coating Diameter	81 to 2,000 µm	
Applicable Fiber Holder		FH-100, FH-110, and optional FH-70 series [1]	
Tension range [2]		0 to 900 gf	
Total fiber length [3]		Approx. 11-44 mm	
Cleave angle [4]		Average 0.3° for 125 µm cladding diameter	
Angled cleaving		N/A	Approx 0° to 15°
Blade life [5]		Approx. 200,000 fiber cleaves for cladding diameter 250 µm	
Physical	Width	Approx. 140 mm without protrusions	
	Depth	Approx. 106 mm without protrusions	
	Height	Approx. 103.5 mm without protrusions	
	Weight	Approx. 810g without batteries	Approx. 850g without batteries
Environmental Conditions	Temperature	Operate: 0°C to 40°C	
		Storage: -40°C to 80°C	
	Humidity	Operate: 0 to 95% RH non-condensing	
		Storage: 0 to 95% RH non-condensing	
AC Adapter	Input	AC 100V to 240V, 50/60 Hz, Max. 1.5A	
	Output	Approx. DC 19V, Max 2.1A	
Battery	Type	X4 AA batteries (ANSI AA / IEC LR6)	
	Life	Approx. 250 fiber cleaves with standard 125 µm cladding dia. at 25°C	
Connection Terminals	PC	USB 2.0 Mini Type-B [7]	
	Gound	Applicable by M3 truss screw	
Wireless Communication	RFID	Compliant with ISO 15693 [7]	
PC Software		Firmware update via internet Cleave mode edit, upload, download and export	

Notes:

1. Holder Adapter Plate (AD-CT110-FH70) is necessary to use FH-70 series holders.
2. There are some cases where the set tension is different than actual tension.
3. Total fiber length is the distance between cleaved fiber end-face and the nearest leading edge of the fiber holder.
4. Measured with an interferometer at room temperature, not with a splicer. The average cleave angle changes depending on the environmental conditions, blade condition, operating method, and cleanliness.
5. Maximum cleave angle changes depending on the fiber type and clamp position.
6. Supports 10,000 cleaves per position at cladding dia. 250 µm. 20 positions x 10,000 cleaves = 200,000 cleaves. The blade life changes depending on the environmental conditions, operating method, and the fiber type.
7. Unavailable with battery.

continued

CT-110 and CT-111 Tension-Method Fiber Cleavers

Ordering Information

Description	AFL No.
CT-110 Tension-Method Fiber Cleaver includes: ADC-21 AC Adapter, ACC—09 power cord, USB cable, two hex wrenches, instruction manual stored on cleaver, quick reference guide, and 1 year factory warranty.	S018320
CT-111 Tension-Method Angled Fiber Cleaver includes: ADC-21 AC Adapter, ACC—09 power cord, USB cable, two hex wrenches, instruction manual stored on cleaver, quick reference guide, and 1 year factory warranty.	S018321
CB-06A Replacement Blade	S016078
FH-70 series adapter plate (AD-CT110-FH70)	S018322
ADC-21 AC Adapter	S018168
ACC-09 Power Cord	S014390

Fiber Holders

Description	AFL No.
FH-110-60 Fiber Holder	S018215
FH-110-100 Fiber Holder	S018216
FH-110-125 Fiber Holder	S018217
FH-110-150 Fiber Holder	S018218
FH-110-180 Fiber Holder	S018219
FH-110-210 Fiber Holder	S018220
FH-110-250 Fiber Holder	S018221
FH-110-300 Fiber Holder	S018222
FH-110-350 Fiber Holder	S018223
FH-110-400 Fiber Holder	S018224
FH-110-500 Fiber Holder	S018225
FH-110-600 Fiber Holder	S018226
FH-110-700 Fiber Holder	S018227

Description	AFL No.
FH-110-800 Fiber Holder	S018228
FH-110-900 Fiber Holder	S018229
FH-110-1000 Fiber Holder	S018230
FH-110-1100 Fiber Holder	S018231
FH-110-1200 Fiber Holder	S018232
FH-110-1300 Fiber Holder	S018233
FH-110-1400 Fiber Holder	S018234
FH-110-1500 Fiber Holder	S018235
FH-110-1600 Fiber Holder	S018236
FH-110-1700 Fiber Holder	S018237
FH-110-1800 Fiber Holder	S018238
FH-110-1900 Fiber Holder	S018239
FH-110-2000 Fiber Holder	S018240

PowerCleave®

To complement the line of world class splicing systems, AFL's PowerCleave combines the precision of an ultrasonic cleaver with the ease and improved fiber management of the Fujikura fiber holder system. The PowerCleave utilizes the tensile stress method to avoid touching or damaging the bare glass surface during cleaving, ensuring highly robust, reliable and durable splice results. The PowerCleave provides consistent flat ends even at cleave lengths as short as 3 mm. Specially designed for use with Fujikura's specialty market splicers, this advanced cleaving system allows for more reliability and greater splicing consistency with less dependence on operator technique.

Features

- Tensile cleaving with ultrasonic blade
- Consistent, low-angle cleaves of short cleave-length fibers
- Fiber holder system reduces fiber handling
- Clean, reliable quality

Specifications

Parameter	Value
Fibers Cleaved	80 µm - 200 µm (cladding diameter)
Minimum Cleave Length	3 mm
Cleave Angle	<0.6 typical
Blade	Diamond with an estimated life of over 20,000 cleaves
Clamping System	Compatible with Fujikura specialty market fiber holder systems
Case	ABS impact resistant with non-slip feet and a 6.25 mm (.24 inch) BSW thread tripod mount for hard mounting to a workstation
Battery	9V alkaline (MN 1604), battery life approximately 10,000 cleaves
Dimensions (L x W x D)	75 mm x 153 mm x 150 mm (3.0 x 6.0 x 5.9 inches)
Weight	1.1 kg (2.4 lbs)
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)

Ordering Information

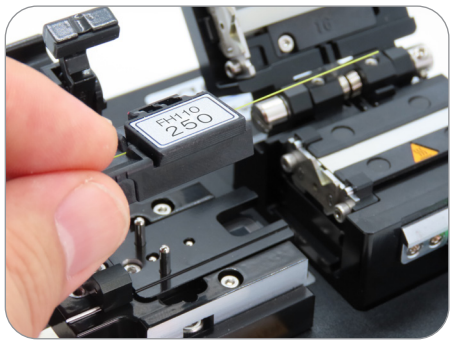
Description	AFL No.
PowerCleave Kit includes: PowerCleave, Instruction manual, 2.5 mm x 60 mm Screwdriver, and 2 mm Allen wrench	S009972

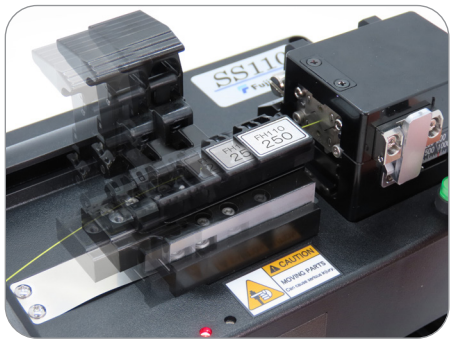
SS-110 Specialty Fiber Stripper

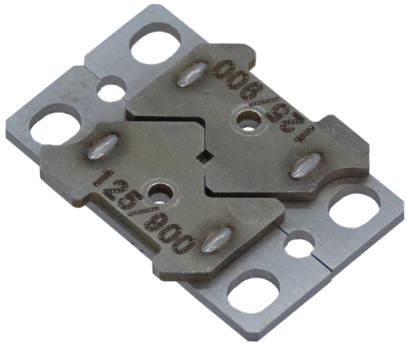
The Fujikura SS-110 specialty fiber stripper is designed for high reliability fiber splicing in several applications. The centralizing features of the replaceable blades position the optical fiber to both prevent contact of the blades with the fiber cladding and sufficiently remove the fiber coating in one pass. This prevents damage to the glass and leaves little to no debris behind for easy cleaning. In addition, the combined centralizing and blade assembly removes the need for an external guide, making replacement or exchange of the blades quick and simple. Temperature, time, stripping length, and the motorized pull speed are adjustable to optimize thermal stripping for a variety of buffer materials and sizes.

As an industry first, this thermal stripper has an RFID sensor which matches the RFID tag on every FH-110 series fiber holder. This tag and sensor are tied to a new fiber holder management capability in the SS-110. Users can pair a fiber holder to a thermal stripping mode via PC software. Each fiber holder has a unique RFID and a user defined name for simple setup of fiber holder and thermal stripping mode combinations. The SS-110 utilizes the pairings setup in the PC software to automatically change the thermal stripping mode based on the fiber holder recognized by the SS-110's RFID sensor. This can be used as either a process control measure, or to aid in thermal stripping optimizations.

This specialty thermal stripper brings exciting benefits at a greater value to the specialty fiber optic industry. Fujikura continues to lead with innovation and value in the quality solutions they develop. Put our SS-110 to the test by contacting us at 1-800-235-3423.







Features

- RFID fiber holder identification and thermal stripping mode selection.
- Heating temperature, time, length, and pull speed are all adjustable.
- Heater height adjustable depending on fiber coating diameter.
- Standard blade sizes of common fiber types with custom options available.
- PC Software downloaded from SS-110

Specifications

Parameter		Value
Applicable Fiber	Fiber Type	Silica Fiber
	Fiber Count	Single Fiber
	Cladding/Coating Diameter	Dictated by blade option selected. Standard offerings are 80/160 µm, 125/250 µm, 125/900 µm, 250/400 µm and 400/550 µm
Stripping Length		Max 35 mm in One Pass
Heating Time		1 to 60 seconds
Heating Temperature		60°C to 200°C
Stripping speed		Approx. 5 to 15 mm/sec
Fiber Holders		FH-110 series, FH-100 series, FH-70 series, FH-60 series
Physical	Width	Approx. 140 mm without protrusions
	Depth	Approx. 106 mm without protrusions
	Height	Approx. 103 mm without protrusions
	Weight	Approx. 900 g

continued

SS-110 Specialty Fiber Stripper

Specifications (cont.)

Parameter		Value
Environmental Conditions	Temperature	Operate: 0°C to 40°C
		Storage: -40°C to 80°C
	Humidity	Operate: 0 to 95% RH non-condensing
		Storage: 0 to 95% RH non-condensing
AC Adapter	Input	AC 100 V to 240 V, 50/60 Hz, Max. 1.5 A
	Output	Approx. DC 19 V, Max 2.1 A
Connection Terminals	PC	USB 2.0 Mini Type-B
	Ground	Applicable by M3 truss screw
Wireless Communication	RFID	Compliant with ISO 15693
PC Software		Firmware update via internet
		Thermal stripping mode setup, upload, download and export

Ordering Information

Description	AFL No.
SS-110 Specialty Fiber Stripper with 125/250 Blades and One-year factory warranty	S018251
80/160 µm Blades	S018252
125/250 µm Blades	S018253
125/900 µm Blades	S018254
250/400 µm Blades	S018255
400/550 µm Blades	S018256
Fiber Holder Adapter for FH-70 Series Fiber Holders	S018257
AC Adapter – ADC-21	S018168
AC Power Cord – ACC-09	S014390

Fiber Holders

Description	AFL No.
FH-110-60 Fiber Holder	S018215
FH-110-100 Fiber Holder	S018216
FH-110-125 Fiber Holder	S018217
FH-110-150 Fiber Holder	S018218
FH-110-180 Fiber Holder	S018219
FH-110-210 Fiber Holder	S018220
FH-110-250 Fiber Holder	S018221
FH-110-300 Fiber Holder	S018222
FH-110-350 Fiber Holder	S018223
FH-110-400 Fiber Holder	S018224
FH-110-500 Fiber Holder	S018225
FH-110-600 Fiber Holder	S018226
FH-110-700 Fiber Holder	S018227

Description	AFL No.
FH-110-800 Fiber Holder	S018228
FH-110-900 Fiber Holder	S018229
FH-110-1000 Fiber Holder	S018230
FH-110-1100 Fiber Holder	S018231
FH-110-1200 Fiber Holder	S018232
FH-110-1300 Fiber Holder	S018233
FH-110-1400 Fiber Holder	S018234
FH-110-1500 Fiber Holder	S018235
FH-110-1600 Fiber Holder	S018236
FH-110-1700 Fiber Holder	S018237
FH-110-1800 Fiber Holder	S018238
FH-110-1900 Fiber Holder	S018239
FH-110-2000 Fiber Holder	S018240

High Tensile Stripper

The Fujikura high tensile stripper HTS-12 provides excellent strength performance when removing 250 µm and 400 µm buffer from optical fibers. Heating temperature and duration are fully adjustable for a variety of buffer materials. Self centering blades eliminate the need for an external guide and make replacement quick and easy. Designed for use with the FSM-40F/PM fiber holder system, the HTS-12 is an ideal solution for stripping when high strength fusion splices are a must.

Specifications

Parameter	Value
Applicable Fiber:	
Cladding Diameter	125 µm (80 µm optional with 160 µm coating)
Coating Diameter	250 µm (160 µm / 400 µm optional)
Fiber Count	Single
Stripping Length	35 mm max
Temperature Settings	120°, 140°, 160°, or 180° C (adjustable)
Heating Time	3 seconds approximate
Applicable Fiber Holders	FH-40 & FH-100 series
Power Supply	100 to 240 VAC (50 to 60 Hz)
Dimensions (W x D x H)	140 x 60 x 60 (mm) / 5.51 x 2.36 x 2.36 (inches)
Weight	600 g / 1.3 lbs

Ordering Information

Description	AFL No.
HTS-12 High Tensile Stripper w/ 250 µm Blades and One-year factory warranty	S012094
80/160 µm Blade for HTS-12	S016841
125/400 µm Blade for HTS-12	S011946
125/250 µm Blade for HTS-12	S011942
ADC-08 AC Adapter	S010996
ACC-09 AC Power Cord	S014390

AFLglobal.com
1 (800) 235-3423

PCS-100L Polyimide Coating Stripper

The Fujikura PCS-100L Polyimide Fiber Coating Stripper is an advanced tool engineered for the precise removal of polyimide coatings from optical fibers, commonly utilized in the oil, gas, and medical sectors. Traditional methods for stripping these coatings often involve hazardous chemicals or high-temperature processes, posing safety risks and potential fiber damage. The PCS-100L introduces a mechanical stripping technique, offering a safer and more efficient alternative.

Specifications

STRIPPING PERFORMANCE	
Applicable Fiber	Silica based Single-mode and Multimode glass fiber
Fiber Count	Single
Applicable Coating	Polyimide coating and UV curable resin coating
Cladding Diameter Range	60 to 1200 µm
Coating Diameter Range	60 to 1,500 µm
Fiber Clamping	Adaptable to range of fiber/coating sizes by selection of applicable pair of FH-110-XXX series fiber holders
Strip Length	1 to 35 mm (Window stripping: 1 to 33 mm)
Stripping Time	4 stripping passes: 20 seconds
	8 stripping passes: 35 seconds
	12 stripping passes: 50 seconds
Blade Life	350 fibers / blade (In the case of 4 strips per fiber)
Stripping Modes	30 user-programmable modes
DIMENSIONAL DATA	
Dimensions	230 mm (W) x 214 mm (D) x 151 mm (H)
Weight	4.8 kg excluding AC adapter
POWER SOURCE	
Power Input	AC100 to 240 V (50 Hz to 60 Hz)
OPERATION AND STORAGE CONDITIONS	
Operating Conditions	Temperature: 0 to 40°C, Humidity: 0 to 95% RH (Non-condensing)
Storage Conditions	Temperature: -40 to 80°C, Humidity: 0 to 95% RH (Non-condensing)

Features

- **Mechanical Stripping Method –** Eliminates the need for dangerous chemicals like hot sulfuric acid or burning methods, ensuring a safer working environment and maintaining fiber integrity.
- **Fully Programmable Settings –** Allows customization of fiber diameter and strip length to accommodate various fiber specifications, enhancing versatility and precision.
- **Quick and Consistent Operation –** Achieves rapid stripping cycles, significantly reducing processing time compared to traditional methods, while ensuring consistent results.
- **Adjustable Parameters –** Features customizable settings for blade position, stroke, and fiber rotation angle, enabling compatibility with a wide range of fiber sizes and coating materials.

Ordering Information

DESCRIPTION	AFL NO.
PCS-100L Polyimide Coating Stripper Includes: PCS-100L, ADC-15 AC Adapter, ACC-02, Hex-01, Instruction manual and PCB-01 replacement blades	S014973

Accessories

DESCRIPTION	AFL NO.
FH-110-150	S018218
ADC-15 AC Adapter	S014826
ACC-02 AC Power Cord	S001171
PCB-01 (Box of 50)	S015018

APM-101 and APM-102 Automatic Preparation Machine

The APM-101 and APM-102 provide fiber optic preparation automation for assembly operations in a factory environment. Both perform all the operational steps required to strip, clean and cleave the fiber, automatically and with high repeatability. This includes stripping the fiber without degrading fiber quality, cleaning fiber with alcohol to remove coating residue, and cleaving consistently at a right angle to the fiber axis. The entire process is complete in as little as 21 seconds.

The APM-101 is designed to accept the FH-100-250 fiber holder that is a component of Fujikura's FSM-100 series and LZM-100 splicing platforms. It can also accept the FH-40/45-250 fiber holder used with the FSM-40/45F and FSM-40/45PM splicing platforms. The APM-102 is designed to accept the FH-70-250 fiber holder used with Fujikura models 70S, 19S and 12S.

Features

- Automatic cleaning – main components in the machine are automatically cleaned allowing a continuous sequence of fiber preparation operations.
- Automatic residue collector – coating residue and glass scraps are collected in separate containers.
- Alcohol circulation system – alcohol for cleaning is circulated in a closed system enabling a lengthy refill-free operation.
- Diamond blade – a diamond blade is used for cleaving in the tension method cleaving process and provides consistent cleave quality.
- Reliable stripping method – contact of the stripping blade to the fiber is prevented using guides in conjunction with the blade, minimizing damage to fiber during the stripping process.
- Production-friendly design – provides ergonomic, smooth and simple operation.

Specifications

Parameter	Value
Applicable fiber	Single-mode and Multimode glass fiber
Applicable cladding diameter	125 µm
Applicable coating	UV curable resin coating
Applicable coating diameter	250 µm
Fiber clamping for APM-101	FH-100-250 series or FH-70-250 fiber holder
Fiber clamping for APM-102	FH-70-250
Cleave length	3 to 10 mm
Cleave angle	Typical 0.5°
Operating time	Typical 23 seconds (in the case of 125 µm diameter fiber with 250 µm coating)
Daily maintenance	Typically every 150 cycles
Operation action	1 step (Press start button only)
Air pressure	4 bar
Operating Condition	0 to 40°C at 0 to 95% RH (non-dew)
Storage condition	-40 to 80°C at 0 to 95% RH (non-dew)
Dimensions	170W x 370D x 120 H (MM)
Weight	5.1 kg

Ordering Information

Description	AFL No.
APM-101 Automatic Preparation Machine (requires FH-100-250 or FH-70-250 Fiber Holders) Includes: ADC-15 AC Adapter, ACC-02 Power Cord, ALC-01 Alcohol Container and REG-01 Air Pressure Regulator	S014974
APM-102 Automatic Preparation Machine (requires FH-70-250 Fiber Holder) Includes: ADC-15 AC Adapter, ACC-02 Power Cord, ALC-01 Alcohol Container and REG-01 Air Pressure Regulator	S015904

Optional Accessories

Description	AFL No.
ADC-15 AC Adapter	S014826
ACC-02 AC Cord	S001171
CSB-250 Coating Strip Blade	S017348
CB-04A Cleaver Blade	S015030
ALC-01 Alcohol Container	S015026
REG-01 Air Pressure Regulator	S015028

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USC-03 Ultrasonic Cleaner

The Fujikura ultrasonic cleaner model USC-03 provides a simple and cost effective method for cleaning optical fibers when high strength fusion splices are required. This ultrasonic cleaner readily accepts all FH-40-XXX, FH-50-XXX, FH-70-XXX and FH-100-XXX series fiber holders. The Universal Fiber Holder Adapter, available as an optional accessory, enables the use of FH-XXX series fiber holders.

The high frequency ultrasonic action cleans debris and coating residue without damaging the exposed cladding and a built-in timer ensures that the required cleaning time is consistently used for all fibers processed. This cleaner, when used in conjunction with high strength stripping and cleaving accessories, produces outstanding results for the most demanding high strength applications.

Features

- Built-in timer assures correct cleaning time
- Adjustable high intensity vibratory cleaning action
- Adjustment knob allows fine-tuning of fiber submersion depth
- Alcohol bath lid prevents cleaning fluid evaporation when machine is idle

Included Accessories

Specifications

Parameter	Value
Applicable Fibers	Single optical fiber
Applicable Fiber Holders	FH-40, 50, 70 and 100 series
Recommended Fluid	≥99% Ethyl alcohol or Isopropyl alcohol
Tank Capacity	43 - 53 cm^3
Ultrasonic Frequency	50 kHz
Fiber Cleaning Length	49 mm (max), adjustable
Output Power	3.0 W (max)
Timer Range	1 to 99 seconds
Power Requirement	AC 100 to 240 V / 50 Hz to 60 Hz
Operating Environment	0°C to 40°C, 0 to 95% RH, non-condensing
Storage Environment	-20°C to 60°C, non-condensing humidity
Dimensions (W x D x H)	95 x 190 x 162 (mm) / 3.74 x 7.48 x 6.38 (inches)
Weight	1 kg / 2.2 lbs

Ordering Information

Description	AFL No.
USC-03	S014783
Universal Fiber Holder Adapter	S013568
ADC-10 Power Adapter	S012548
ACC-09 Power Cord	S014390

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

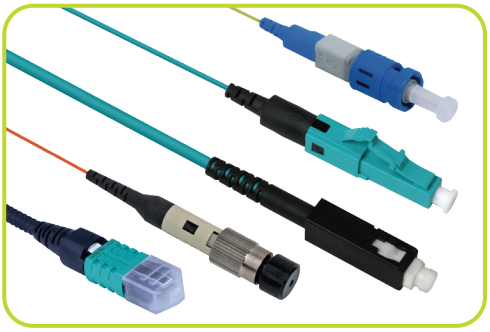
TEST & INSPECTION

FOCIS Lightning®2, FOCIS WiFi2 and FOCIS Flex Fiber Optic Connector Inspection Systems

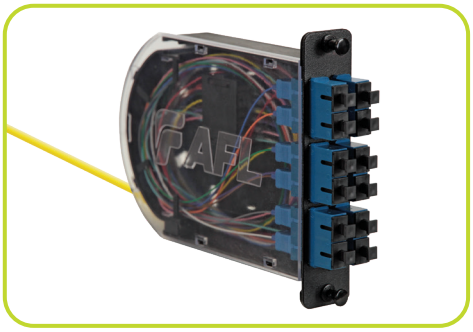
FlexScan® OTDR

OPM5 Optical Power Meter and OLS4 Light Source

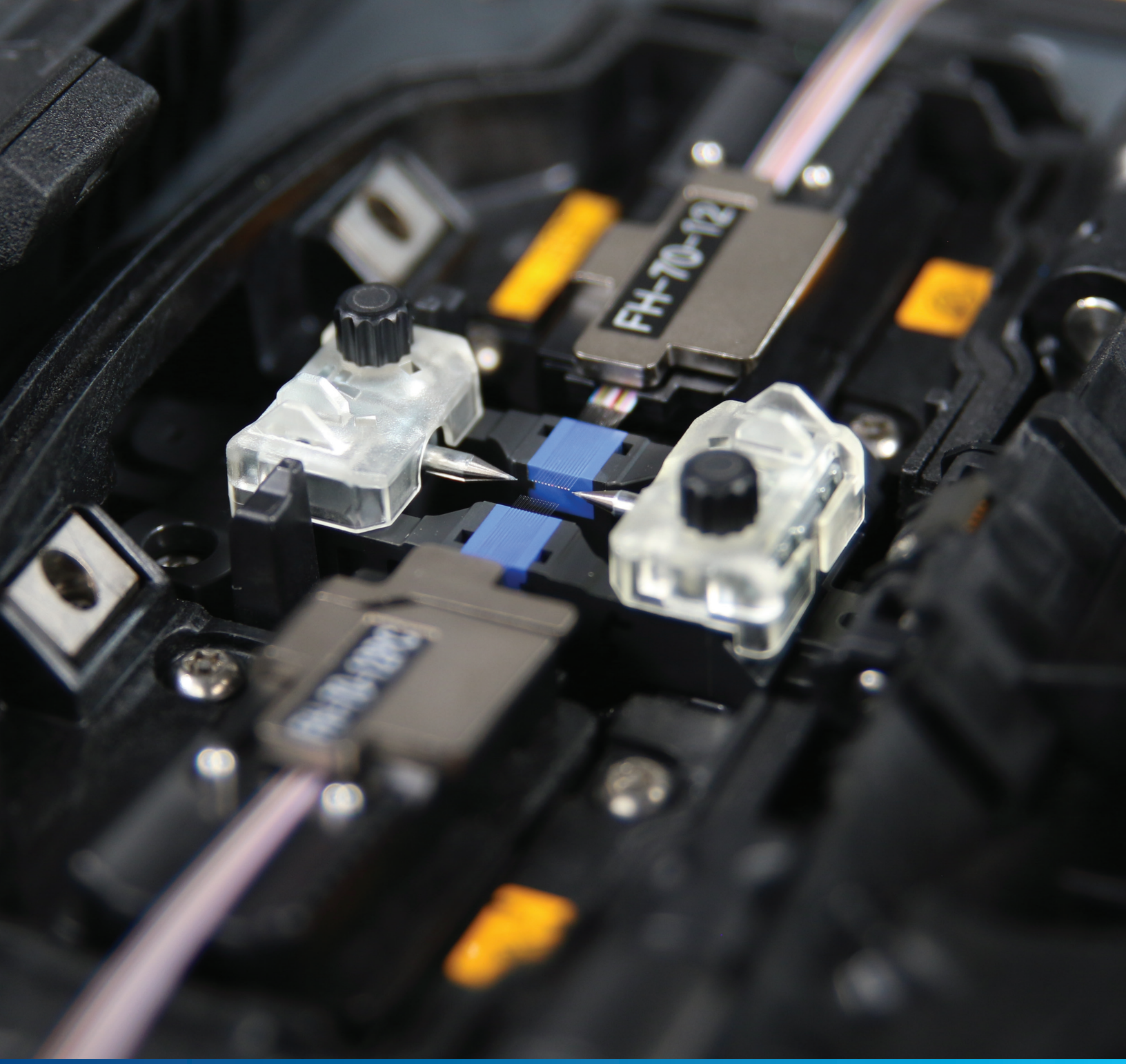
FIBER INSIDE PLANT



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



Poli-MOD®
Patch and Splice Module



AFL

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