

FUSION SPLICING SYSTEMS

Fusion Splicers, Cleavers, Software, Tools and Supplies

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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Specialty Fusion Splicing Equipment

Snlicers

| Spirecis |
|--|
| LAZER Master® LZM-125A+ Splicing System |
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| LAZER Master® LZM-125M+/LZM-125P+ Splicing System |
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| CT-110 and CT-111 Tension-Method Fiber Cleavers |
| CI-110 dild CI-111 Telisioti-Method Fiber Cleavers |
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Fusion Splicing Systems



The Fujikura 90S+ core alignment fusion splicer solves common problems seen in the field—from splicing poor quality legacy fiber to automated equipment maintenance and upkeep. The Fujikura 90S+ can be use in multiple field splicing applications including bend-insensitive fibers in drop cables, long-haul terrestrial and submarine LEAF® fibers, loose buffer fiber, splice-on connectors, and the list goes on. The speed and accuracy of the 90S+ make it suitable for certain production and specialty environments where high output, tight packaging, and low loss requirements are required.

Regardless of your scenario, the Fujikura 90S+ is designed to keep you in the field with an extended battery life of 300 splice and heat cycles. With its multiple automated and easy-to-use features, the 90S+ alleviates the need for traditional operation tasks such as frequent arc calibrations, cleaver blade rotations, cleaver usage tracking, and manual splicing operations.

A redesigned work tray, cooling tray, and optional cable clamp make the 90S+ kit more versatile than its predecessors in adapting to varying work conditions and environments.

With the AFL Tote Solution installed, the 90S+ transit case securely integrates with Milwaukee's PACKOUT™ system, offering faster transport, stability, and time-savings for contractors and technicians.

When splicing loose buffer fiber, additional sheath clamps are not needed. The standard universal sheath clamp now handles both loose and tight buffer fibers. The new Active Fusion Control (AFC) technology improves splice losses for fibers that possess a poor cleave angle. Combined with Active Blade Management between the splicer and cleaver, the Fujikura 90S+ contains a robust set of splicing features that will reduce the likelihood of poor splice installations or repairs.

Features

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

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









Wind Protector Open

STOCK ITEM

Ordering Information

| DESCRIPTION | AFL NO. |
|--|---------|
| Fujikura 90S+ Fusion Splicer (machine only) | S017519 |
| Includes: ADC-20 AC Adapter, ACC-14 AC Cord, BTR-15 Battery, ELCT2-16B Spare Electrodes (pair), Sheath Clamps, SP-03 Fiber Holder Set Plates, | |
| USB-01 Cable, Alcohol Dispenser, Screwdriver, 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 | |
| Fujikura 90S+ Standard Fusion Splicer Kit (with cleaver) | S017521 |
| Includes: CT50 Cleaver, ADC-20 AC Adapter, ACC-14 AC Cord, BTR-15 Battery, ELCT2-16B Spare Electrodes (pair), Sheath Clamps, SP-03 Fiber | |
| Holder Set Plates, USB-01 Cable, Alcohol Dispenser, Screwdriver, 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 | |
| Fujikura 90S+ Fusion Splicer without Bluetooth (machine only) | S017520 |
| Includes: ADC-20 AC Adapter, BTR-15 Battery, ACC-14 AC Cord, ELCT2-16B Spare Electrodes (pair), Sheath Clamps, SP-03 Fiber Holder Set Plates, | |
| USB-01 Cable, Alcohol Dispenser, Screwdriver, 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 | |
| Fujikura SpliceReady 90S+ Splicer Kit includes: Fujikura 90S+ Standard Kit (S017521), FP-60 60 mm (single splice) protection sleeve (pack | S018582 |
| 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) | |
| One-Year Extended Warranty | S012996 |
| Two-Year Extended Warranty | S013000 |

Recommended Products for the 90S+

| DESCRIPTION | AFL NO. |
|---|---------|
| Cleavers | |
| CT-16 Cleaver | S018330 |
| CT-50 Cleaver | S017030 |
| 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-20 AC Adapter | S017513 |
| ACC-14 AC Power Cord | S014536 |
| BTR-15 Battery | S017512 |
| DCC-20 Power Cord | S017527 |
| (connects AC Adapter to cigarette lighter socket) | |
| DCC-21 Power Cord | S017528 |
| (connects AC Adapter to power source via alligator clips) | |
| | |

| DESCRIPTION | AFL NO. |
|--|---------|
| Miscellaneous | |
| SS03 Single fiber stripper (3 hole) | S017098 |
| SS01 Single fiber stripper (1 hole) | S017099 |
| ELCT2-16B Electrodes | S017103 |
| SP-03 Fiber Holder Set Plates | S017518 |
| S90 Universal Sheath Clamps | S017696 |
| Portable Tripod Worktray Kit (see product profile for more detail) | S014773 |
| ASW-02 Splicing Workstation (see product profile for more detail) | S010532 |
| WT-09R Transit Case - Work Tray Right (90 Series) | S017515 |
| WT-09L Transit Case - Work Tray Left (90 Series) | 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 for work tray) | S017550 |
| USB-01 Cable | S014777 |
| CC39 Transit Case | S017514 |
| Splicer V-Groove Cleaning Kit | S014397 |
| ST-03 Case and Work Tray Strap | S017549 |
| AFL Tote Solution - Cleat Installation Service | S018623 |



Fiber Holders

- Wide range of sizes for various applications
- Loose & Tight Buffer options available



Portable Splicing Worktray Kit

- Large, sturdy work tray supports the splicer, cleaver and accessories with plenty of working room
- Tripod supports a load capacity of up to 20 pounds



V-Groove Cleaning Kit

- Removes environmental contamination from the v-groove of the splicer
- Maintains performance and ensures fiber alignment



| PARAMETER | | VALUE |
|---|--|--|
| Fiber Alignment Method Fiber Count Can Be Spliced | | Active core alignment Single fiber |
| Tibel Coulit Call be Spliced | Fiber Type | Single-mode optical fiber |
| Applicable Fiber | Tibel Type | Multimode optical fiber |
| Applicable Fiber | Cladding Diameter | 80 to 150 µm |
| | , and the second | Coating dia.: Max. 3,000 μm |
| Applicable Coating | Sheath Clamp | Cleave length: 5 to 16 mm |
| | | ITU-T G.652: Avg. 0.02 dB |
| | | ITU-T G.651: Avg. 0.01 dB |
| | | ITU-T G.653: Avg. 0.04 dB |
| | Splice Loss | ITU-T G.654: Avg. 0.04 dB |
| Fiber Splice Performance | | ITU-T G.655: Avg. 0.04 dB |
| spce : e.reance | | ITU-T G.657: Avg. 0.02 dB |
| | | SM FAST mode: Avg. 8 to 10 sec. |
| | Splice Time | SM AUTO mode: Avg. 11 to 13 sec. |
| | Spiree Time | AUTO mode: Avg. 14 to 16 sec. |
| | Sleeve Type | Heat-shrinkable sleeve |
| Applicable Protection Sleeve | Sleeve Length | Max. 66 mm |
| Approduce : reconstruction | Sleeve Dia. | Max. 6.0 mm before shrinking |
| | | 60 mm slim mode: Avg. 9 to 10 sec. |
| Sleeve Heat Performance | Heat Time | 60 mm mode: Avg. 13 to 15 sec. |
| Fiber Tensile Test Force | | Approx. 2.0 N |
| Electrode Life | | Approx. 5,000 splices |
| | Dimensions W | Approx.170 mm without projection |
| | Dimensions D | Approx.173 mm without projection |
| Physical Description | Dimensions H | Approx.150 mm without projection |
| | Weight | Approx. 2.8 kg including battery |
| | | Operate: -10 to 50°C |
| | Temperature | Storage: -40 to 80°C |
| Environmental Condition | 11 2.15 | Operate: 0 to 95% RH non-condensing |
| | Humidity | 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 |
| · | Туре | Rechargeable Lithium Ion |
| | Output | Approx. DC14.4V / 6,380 mAh |
| | Capacity | Approx. 300 splice and heat cycles |
| Battery Pack | | Recharge: 0 to 30°C |
| , | Temperature | Storage: -20 to 30°C |
| | Battery Life | Approx. 500 recharge cycles |
| | Recharge Time | Approx. 5-8 hours from empty |
| D:I | LCD Monitor | TFT 5 inches with touch screen |
| Display | Magnification | 200 to 320x |
| llumination | V-Grooves | LED lamp |
| | PC | USB2.0 Mini B type |
| Interface | External Led Lamp | USB2.0 A type, Approx. DC5V, 500 mA |
| interrace | Ribbon Stripper | Mini DIN 6 pin, DC12V, Max. 1A |
| | Wireless | Bluetooth 4.1 LE |
| | VVIICICSS | |
| | Splice Mode | 100 splice modes |
| Data Starage | | 100 splice modes 30 heat modes |
| Data Storage | Splice Mode | |
| Data Storage | Splice Mode Heat Mode | 30 heat modes |
| - | Splice Mode Heat Mode Splice Result | 30 heat modes 20,000 splices |
| - | Splice Mode Heat Mode Splice Result | 30 heat modes 20,000 splices 100 images |
| - | Splice Mode Heat Mode Splice Result | 30 heat modes 20,000 splices 100 images 1/4-20 UNC Splice mode select by fiber type analysis |
| - | Splice Mode Heat Mode Splice Result Splice Image | 30 heat modes 20,000 splices 100 images 1/4-20 UNC Splice mode select by fiber type analysis Discharge power calibration |
| - | Splice Mode Heat Mode Splice Result | 30 heat modes 20,000 splices 100 images 1/4-20 UNC Splice mode select by fiber type analysis Discharge power calibration Wind protector: open/close |
| Screw Hole For Tripod | Splice Mode Heat Mode Splice Result Splice Image | 30 heat modes 20,000 splices 100 images 1/4-20 UNC Splice mode select by fiber type analysis Discharge power calibration Wind protector: open/close Sheath clamp: open |
| Screw Hole For Tripod | Splice Mode Heat Mode Splice Result Splice Image | 30 heat modes 20,000 splices 100 images 1/4-20 UNC Splice mode select by fiber type analysis Discharge power calibration Wind protector: open/close Sheath clamp: open Heater lid: open/close |
| Data Storage Screw Hole For Tripod Other Features | Splice Mode Heat Mode Splice Result Splice Image Automatic Functions | 30 heat modes 20,000 splices 100 images 1/4-20 UNC 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 |
| Screw Hole For Tripod | Splice Mode Heat Mode Splice Result Splice Image | 30 heat modes 20,000 splices 100 images 1/4-20 UNC Splice mode select by fiber type analysis Discharge power calibration Wind protector: open/close Sheath clamp: open Heater lid: open/close |



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.

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



455



45S Standard Kit



45S on Tripod

Features







Sleeve Positioning



Work Tray with Neck Strap



CT-16A Adapter Plate on CT-50



Fiber stripper SS-05

For 2.3 mm For 900 μm

- (3) For 250 μm
- 4 For 250 μm

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 |

| PARAMETER | | VALUE |
|--|-------------------|---|
| Fiber alignment method | | Active cladding alignment |
| Fiber count can be spliced | | Single fiber |
| | Fiber type | Single-mode optical fiber |
| Applicable fiber | | Multimode optical fiber |
| | Cladding dia. | Approx. 125 μm |
| | Sheath Clamp | Coating diameter: Max. 3,000 μm |
| Applicable coating | Sheath Clamp | Cleave length: 5 to 16 mm *1 |
| Applicable coating | Fiber Holder | Coating diameter: 160 μm $-$ 3,000 μm based on available fiber holder options |
| | Tibel Holdel | Cleave length: Approx. 10 mm |
| | | ITU-T G.652: Avg. 0.03dB |
| | | ITU-T G.651: Avg. 0.01dB |
| | Splice loss *2 | ITU-T G.653: Avg. 0.05dB |
| iber splice performance | | 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. |
| | Splicing time *3 | SM AUTO mode: Avg. 8 to 10 sec. |
| | Sleeve type | Heat shrinkable sleeve |
| applicable protection sleeve | Sleeve length | Max. 66 mm |
| • | Sleeve dia. | Max. 6.0 mm before shrinking |
| I h h | 114-4*/ | 60 mm mode: Avg. 15 to 22 sec. |
| leeve heat performance | Heat time *4 | 60 mm slim mode: Avg. 15 to 17sec. |
| ber tensile test force | | Approx. 2.0 N |
| ectrode life *5 | | Approx. 6,000 splices |
| | Dimensions W | Approx.131 mm without projection |
| | Dimensions D | Approx.123 mm without projection |
| hysical description | Dimensions H | Approx.121 mm without projection |
| | Weight | Approx. 1.4 kg including battery |
| | | Operate : -10 to 50°C |
| | Temperature | Storage: -40 to 80°C |
| nvironmental condition | | Operate : 0 to 95% non-condensing |
| The state of the s | Humidity | Storage : 0 to 95% non-condensing |
| | Altitude | Max. 5,000 m |
| | Input | AC100 to 240V, 50/60Hz, Max. 1A |
| C adaptor | Output | Approx. DC 19V, Max. 2.1A |
| | Туре | Rechargeable Lithium Ion |
| | Output | Approx. DC14.4V / 3,190mAh |
| | · | 60 mm heat mode: Approx. 200 splice & heat cycles |
| | Capacity *6 | 60 mm slim heat mode: Approx. 230 splice & heat cycles |
| attery pack | | Operate: -10 to 50°C |
| acco., pack | | Recharge : 0 to 40°C |
| | Temperature | Short term storage of 30 days: -20 to 50°C |
| | | Long term storage: -20 to 30°C |
| | Battery life *7 | Approx. 500 recharge cycles |
| | LCD monitor | TFT 4.95 inches with touch screen |
| Display | Magnification | Approx. 132 to 300X |
| lumination | V-grooves | LED lamp |
| ummation | v-grooves PC | USB2.0 MINI B type |
| | ۲ | USB 2.0 A type |
| nterface | External LED lamp | |
| | · | Approx. DC5V, 500mA |
| | Wireless *8 | Bluetooth® 5.2 |



| 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 |
| | | Fusion control |
| | Automatic functions | Blade management and control |
| Other features | | 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 μ m cladding dia. And 250 μ m coating dia.
 - 10 16 mm: 125 μ m cladding dia. And 400 or 900 μ m 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.

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.

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





35S Standard Kit



CT-16 with AD-16A Adapter

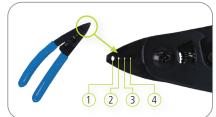
Features







Sleeve Positioning



Fiber stripper SS-05

1) For 2.3 mm

2 For 900 μm

3 For 250 μm

4) For 250 μm

AFL No.

S018324 S018168 S014390

\$017524 \$017103 \$018325 \$014397 \$014777 \$018332 \$018328

S018331 S018335

S014773

Ordering Information

| Description | AFL No. |
|---|---------|
| Fujikura 35S Standard Kit | S018314 |
| 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 | |
| Fujikura 35S Kit without Cleaver | S018316 |
| 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 | |
| One Year Extended Warranty | S012996 |
| Two Year Extended Warranty | S013000 |

Recommended Accessories

| Description | AFL No. | Description |
|--|---------|--|
| Cleavers and Strippers | | Power Supply Options |
| CT-50 Fiber Cleaver | S017030 | BTR-17 Battery Pack |
| CT-16 Fiber Cleaver | S018330 | ADC-21 AC Adapter |
| SS-05 Dual Fiber Stripper | S018327 | ACC-09 Power Cord |
| Fiber Holders | | Miscellaneous |
| CLAMP-S35B Loose Buffer Sheath Clamp | S018333 | TS-03 Tripod Screw |
| FH-70-250 (250 µm single fiber) | S017111 | ELCT2-16B Electrodes |
| FH-70-200 (200 µm single fiber) | S017711 | CC-44 Transit Case |
| FH-70-900 Fiber Holders (900 μm single fiber) | S017113 | Splicer V-Groove Cleaning Kit |
| FH-60-LT900 (900 µm loose buffer tube) | S015181 | USB-01 USB Cable |
| FUSEConnect® Accessories | | SP-04 Fiber Holder Set Plates |
| FH-FC-20 (900 µm within 2.0 mm sheathing) (each) | S014696 | AD-16A Adapter Plate (CT-50 & CT-16 up to 900um) |
| FH-FC-30 (900 µm within 3.0 mm sheathing) (pair) | S014695 | AD-16B Adapter Plate (CT-50 & CT-16 up to 3mm) |
| FH-FC-900 (900 µm cable) (each) | S014697 | CB-09 Replacement Blade for CT-16 Cleaver |
| CLAMP-FC-2000 (pair) | S014705 | Portable Tripod Workstation (see web listing for more detail |
| CLAMP-FC-3000 (pair) | S014704 | |

| | Parameter | Value |
|------------------------------|-------------------|---|
| Fiber alignment method | | Active cladding alignment |
| Fiber count can be spliced | | Single fiber |
| | Fiber type | Single mode optical fiber |
| Applicable fiber | | Multi mode optical fiber |
| | Cladding dia. | Approx. 125 μm |
| | Sheath Clamp | Coating diameter: Max. 3,000 μm |
| Applicable coating | Siledii Cidiip | Cleave length: 5 to 16 mm *1 |
| Applicable country | Fiber Holder | Coating diameter: 160 µm – 3,000 µm based on available fiber holder options |
| | Tibel Holder | Cleave length: Approx. 10 mm |
| | | ITU-T G.652: Avg. 0.03dB |
| | | ITU-T G.651: Avg. 0.01dB |
| | Splice loss *2 | ITU-T G.653: Avg. 0.05dB |
| Fiber splice performance | | 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. |
| | Sleeve type | Heat shrinkable sleeve |
| Applicable protection 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 |
| | Dimensions W | Approx.131 mm without projection |
| Physical description | Dimensions D | Approx.123 mm without projection |
| , , | Dimensions H | Approx.121 mm without projection |
| | Weight | Approx. 1.4 kg including battery |
| | Temperature | Operate: -10 to 50°C |
| English and a self-sendidon | · | Storage: -40 to 80°C |
| Environmental condition | 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 Rechargeable Lithium Ion |
| | Type | Approx. DC14.4V / 3,190mAh |
| | Output | 60 mm heat mode: Approx. 200 splice & heat cycles |
| | Capacity*6 | 60 mm slim heat mode: Approx. 230 splice & heat cycles |
| Battery pack | | Operate: -10 to 50°C |
| battery pack | | Recharge : 0 to 40°C |
| | Temperature | Short term storage of 30 days: -20 to 50°C |
| | | Long term storage: -20 to 30 °C |
| | Battery life*7 | Approx. 500 recharge cycles |
| | LCD monitor | TFT 4.95 inches with touch screen |
| Display | Magnification | Approx. 132 to 300X |
| Illumination | V-grooves | LED lamp |
| mammadon | PC | USB 2.0 MINI B type |
| Interface | | USB 2.0 A type |
| menace | External LED lamp | Approx. DC5V, 500mA |
| | | Approx. DCJV, Journa |



| Parameter | | Value |
|----------------|---------------------|--------------------------------------|
| | Splice mode | 100 splice modes |
| Data atawa na | Heat mode | 30 heat modes |
| Data storage | Splice result | 20,000 splices |
| | Fiber image | 100 images |
| | | Fusion control |
| | Automatic functions | Splice start |
| | Reference guide | Heater start |
| | | PDF file stored on splicer |
| Other features | | Open with/without wind protector |
| | Sheath clamp | 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 μ m cladding dia. And 250 μ m coating dia.
 - 10 16 mm: 125 μ m cladding dia. And 400 or 900 μ m 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.

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.



- 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





In Work Trav



Wind Protector Open

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

| Cleavers and Strippers CT50 Cleaver \$017030 RS01 Thermal Stripper \$016815 RS02 Thermal Stripper \$016816 RS03 Thermal Stripper \$016817 Fiber Holders (pair) FH-70-2 \$017114 FH-70-12 \$017115 FH-70-6 \$017116 FH-70-10 \$017118 FH-70-12 (pitch conversion holder for 200 μm loose fibers) \$017118 FH-70-12-200 (200 μm pitch ribbons) \$017681 FH-70-16 (pitch conversion holder for 200 μm loose fibers) \$017681 FH-70-16 (pitch conversion holder for 200 μm loose 16 fibers) \$017533 FH-70-16C (Pitch conversion holder for 200 μm loose 16 fibers) \$018610 FH-70-16C (Pitch conversion holder for 200 μm loose 16 fibers) \$017533 FH-70-16C (Pitch conversion holder for 200 μm loose 16 fibers) \$017681 FH-70-16 (pitch conversion holder for 200 μm loose 16 fibers) \$017681 FH-70-16 (pitch conversion holder for 200 μm loose 16 fibers) \$017681 FH-70-16 (pitch conversion holder for 200 μm loose 16 fibers) \$017518 FH-70-16 (pitch conversion holder for 200 μm loose 16 fibers) \$ | DESCRIPTION | AFL NO. |
|---|--|---------|
| 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) S017681 FH-70-12-200 (200 μm pitch ribbons) S017681 FH-70-16-200 (200 μm pitch for 16 fiber ribbon) S018610 FH-70-16-200 (200 μm pitch for 16 fiber ribbon) S018610 FH-70-16-200 (200 μm pitch for 16 fiber ribbon) S018611 FH-70-250 (250 μm coated single fiber) S017111 FH-70-900 (900 μm jacketed single fiber) S017111 FH-70-900 (10ose buffer 900 μm fiber) S015181 FUSEConnect® Accessories FH-FC-20 (900 μm within 2.0 mm sheathing) (each) S014696 FH-FC-30 (900 μm cable) (each) 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 S017528 Connects ADC-20 to cigarette lighter socket DCC-21 Power Cord S017528 Connects ADC-20 to power source via alligator clips | | |
| RS02 Thermal Stripper S016816 RS03 Thermal Stripper S016817 Fiber Holders (pair) FH-70-2 FH-70-4 S017115 FH-70-6 S017116 FH-70-8 S017117 FH-70-10 S017118 FH-70-12 EVC (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) S017113 FH-FC-20 (900 μm within 2.0 mm sheathing) (each) S014696 FH-FC-30 (900 μm cable) (each) S014695 FH-FC-900 (900 μm cable) (each) S014697 CLAMP-FC-2000 (pair) S014705 Batteries and Power Cords S017513 BTR-15 Battery S017512 DCC-21 Power Cord S017527 Connects ADC-20 to cigarette lighter socket | CT50 Cleaver | S017030 |
| 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 FC (pitch conversion holder for 200 μm loose fibers) S017119 FH-70-12-200 (200 μm pitch ribbons) S017681 FH-70-16 S017533 FH-70-16 (Pitch conversion holder for 200 μm loose 16 fibers) S018610 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) S017113 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 S017513 BTR-15 Battery S017512 DCC-21 Power Cord S017527 Connects ADC-20 to cigarette lighter socke | RS01 Thermal Stripper | S016815 |
| Fiber Holders (pair) FH-70-2 \$017114 FH-70-4 \$017115 FH-70-6 \$017116 FH-70-8 \$017117 FH-70-10 \$017118 FH-70-12 (pitch conversion holder for 200 μm loose fibers) \$017464 FH-70-12-200 (200 μm pitch ribbons) \$017681 FH-70-16 \$017533 FH-70-16-200 (200 μm pitch for 16 fiber ribbon) \$018610 FH-70-16-200 (200 μm pitch for 16 fiber ribbon) \$018610 FH-70-16-200 (200 μm pitch for 200 μm loose 16 fibers) \$018611 FH-70-16-200 (200 μm pitch for 200 μm loose 16 fibers) \$018611 FH-70-16-200 (200 μm coated single fiber) \$017111 FH-70-16-200 (200 μm coated single fiber) \$017111 FH-70-250 (250 μm coated single fiber) \$017111 FH-70-2900 (900 μm jacketed single fiber) \$017113 FH-60-LT900 (Loose buffer 900 μm fiber) \$015181 FUSEConnect® Accessories FH-FC-20 (900 μm within 3.0 mm sheathing) (each) \$014695 FH-FC-900 (900 μm cable) (each) \$014695 FH-FC-900 (pair) \$014697 Batter | RSO2 Thermal Stripper | S016816 |
| FH-70-2 FH-70-4 FH-70-6 FH-70-8 FH-70-10 FH-70-10 FH-70-12 FH-70-13 FH-70-15 FH-70-16 FH-70-250 FH-70-16 FH-70-250 FH-70-16 FH-70-250 FH-70-16 FH-70-250 FH-70-250 FH-70-250 FH-70-250 FH-70-250 FH-70-250 FH-70-200 FH- | RS03 Thermal Stripper | S016817 |
| FH-70-4 FH-70-6 FH-70-8 FH-70-10 FH-70-12 FH-70-12 FH-70-12 FH-70-12 FH-70-12 FH-70-12 FH-70-12 FH-70-12 FH-70-16 FH-70-10 FH-70-16 FH-70 | Fiber Holders (pair) | |
| FH-70-6 FH-70-8 S017117 FH-70-10 S017118 FH-70-12 FH-70-12 FH-70-12PC (pitch conversion holder for 200 μm loose fibers) S017464 FH-70-12-200 (200 μm pitch ribbons) 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 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 DCC-21 Power Cord S017528 Connects ADC-20 to power source via alligator clips | FH-70-2 | S017114 |
| FH-70-8 FH-70-10 S017117 FH-70-12 FH-70-12 FH-70-12PC (pitch conversion holder for 200 µm loose fibers) FH-70-12PC (pitch conversion holder for 200 µm loose fibers) S017464 FH-70-12-200 (200 µm pitch ribbons) 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) FH-70-900 (900 µm jacketed single fiber) S017111 FH-70-900 (10ose buffer 900 µm fiber) S015181 FUSEConnect® Accessories FH-FC-20 (900 µm within 2.0 mm sheathing) (each) S014696 FH-FC-30 (900 µm cable) (each) 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 DCC-21 Power Cord S017528 Connects ADC-20 to power source via alligator clips | FH-70-4 | S017115 |
| FH-70-10 FH-70-12 FH-70-12 FH-70-12PC (pitch conversion holder for 200 µm loose fibers) FH-70-12PC (pitch conversion holder for 200 µm loose fibers) FH-70-12-200 (200 µm pitch ribbons) FH-70-16 S017533 FH-70-16-200 (200 µm pitch for 16 fiber ribbon) FH-70-16PC (Pitch conversion holder for 200 µm loose 16 fibers) FH-70-250 (250 µm coated single fiber) FH-70-900 (900 µm jacketed single fiber) FH-70-900 (Loose buffer 900 µm fiber) FUSEConnect® Accessories FH-FC-20 (900 µm within 2.0 mm sheathing) (each) FH-FC-30 (900 µm within 3.0 mm sheathing) (pair) FH-FC-900 (900 µm cable) (each) CLAMP-FC-2000 (pair) Batteries and Power Cords ADC-20 AC Adapter S017513 BTR-15 Battery DCC-11 splicer to ribbon stripper power cord S013852 DCC-20 Power Cord Connects ADC-20 to cigarette lighter socket DCC-21 Power Cord S017528 Connects ADC-20 to power source via alligator clips | FH-70-6 | S017116 |
| FH-70-12 FH-70-12PC (pitch conversion holder for 200 µm loose fibers) S017464 FH-70-12-200 (200 µm pitch ribbons) S017681 FH-70-16 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 cable) (each) S014695 FH-FC-900 (900 µm cable) (each) S014697 CLAMP-FC-2000 (pair) Satteries and Power Cords ADC-20 AC Adapter S017513 BTR-15 Battery DCC-11 splicer to ribbon stripper power cord S013852 DCC-20 Power Cord Connects ADC-20 to cigarette lighter socket DCC-21 Power Cord S017528 Connects ADC-20 to power source via alligator clips | FH-70-8 | S017117 |
| 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) FH-70-16PC (Pitch conversion holder for 200 µm loose 16 fibers) S018610 FH-70-16PC (Pitch conversion holder for 200 µm loose 16 fibers) S018611 FH-70-250 (250 µm coated single fiber) 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 cable) (each) CLAMP-FC-2000 (poir) S014697 CLAMP-FC-2000 (pair) S014705 Batteries and Power Cords ADC-20 AC Adapter S017513 BTR-15 Battery DCC-11 splicer to ribbon stripper power cord S013852 DCC-20 Power Cord Connects ADC-20 to cigarette lighter socket DCC-21 Power Cord S017528 Connects ADC-20 to power source via alligator clips | FH-70-10 | S017118 |
| FH-70-12-200 (200 µm pitch ribbons) 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 DCC-11 splicer to ribbon stripper power cord S013852 DCC-20 Power Cord Connects ADC-20 to cigarette lighter socket DCC-21 Power Cord S017528 Connects ADC-20 to power source via alligator clips | FH-70-12 | S017119 |
| FH-70-16 FH-70-16-200 (200 µm pitch for 16 fiber ribbon) S018610 FH-70-16-200 (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) 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 DCC-11 splicer to ribbon stripper power cord S013852 DCC-20 Power Cord Connects ADC-20 to cigarette lighter socket DCC-21 Power Cord S017528 Connects ADC-20 to power source via alligator clips | FH-70-12PC (pitch conversion holder for 200 μm loose fibers) | S017464 |
| FH-70-16-200 (200 µm pitch for 16 fiber ribbon) FH-70-16PC (Pitch conversion holder for 200 µm loose 16 fibers) FH-70-250 (250 µm coated single fiber) FH-70-900 (900 µm jacketed single fiber) FH-60-LT900 (Loose buffer 900 µm fiber) FUSEConnect® Accessories FH-FC-20 (900 µm within 2.0 mm sheathing) (each) FH-FC-30 (900 µm within 3.0 mm sheathing) (pair) FH-FC-900 (900 µm cable) (each) CLAMP-FC-2000 (pair) S014697 CLAMP-FC-2000 (pair) S014705 Batteries and Power Cords ADC-20 AC Adapter S017513 BTR-15 Battery DCC-11 splicer to ribbon stripper power cord S013852 DCC-20 Power Cord Connects ADC-20 to cigarette lighter socket DCC-21 Power Cord Connects ADC-20 to power source via alligator clips | FH-70-12-200 (200 μm pitch ribbons) | S017681 |
| 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 S017527 Connects ADC-20 to cigarette lighter socket DCC-21 Power Cord S017528 Connects ADC-20 to power source via alligator clips | FH-70-16 | S017533 |
| FH-70-250 (250 µm coated single fiber) FH-70-900 (900 µm jacketed single fiber) FH-70-900 (200 µm jacketed single fiber) FH-60-LT900 (Loose buffer 900 µm fiber) FUSEConnect® Accessories FH-FC-20 (900 µm within 2.0 mm sheathing) (each) FH-FC-30 (900 µm within 3.0 mm sheathing) (pair) FH-FC-900 (900 µm cable) (each) CLAMP-FC-2000 (pair) S014697 CLAMP-FC-2000 (pair) S014705 Batteries and Power Cords ADC-20 AC Adapter S017513 BTR-15 Battery DCC-11 splicer to ribbon stripper power cord S013852 DCC-20 Power Cord Connects ADC-20 to cigarette lighter socket DCC-21 Power Cord Connects ADC-20 to power source via alligator clips | | S018610 |
| FH-70-900 (900 µm jacketed single fiber) FH-60-LT900 (Loose buffer 900 µm fiber) FUSEConnect® Accessories FH-FC-20 (900 µm within 2.0 mm sheathing) (each) FH-FC-30 (900 µm within 3.0 mm sheathing) (pair) FH-FC-900 (900 µm cable) (each) CLAMP-FC-2000 (pair) S014697 CLAMP-FC-2000 (pair) S014705 Batteries and Power Cords ADC-20 AC Adapter S017513 BTR-15 Battery DCC-11 splicer to ribbon stripper power cord S013852 DCC-20 Power Cord Connects ADC-20 to cigarette lighter socket DCC-21 Power Cord Connects ADC-20 to power source via alligator clips | | S018611 |
| FH-60-LT900 (Loose buffer 900 µm fiber) FUSEConnect® Accessories FH-FC-20 (900 µm within 2.0 mm sheathing) (each) FH-FC-30 (900 µm within 3.0 mm sheathing) (pair) FH-FC-900 (900 µm cable) (each) CLAMP-FC-2000 (pair) 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 DCC-21 Power Cord Connects ADC-20 to power source via alligator clips | | S017111 |
| 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) S014697 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 S017527 Connects ADC-20 to cigarette lighter socket DCC-21 Power Cord S017528 Connects ADC-20 to power source via alligator clips | | |
| FH-FC-20 (900 µm within 2.0 mm sheathing) (each) FH-FC-30 (900 µm within 3.0 mm sheathing) (pair) S014695 FH-FC-900 (900 µm cable) (each) 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 DCC-21 Power Cord S017528 Connects ADC-20 to power source via alligator clips | , , , | S015181 |
| FH-FC-30 (900 µm within 3.0 mm sheathing) (pair) FH-FC-900 (900 µm cable) (each) CLAMP-FC-2000 (pair) S014705 Batteries and Power Cords ADC-20 AC Adapter S017513 BTR-15 Battery DCC-11 splicer to ribbon stripper power cord DCC-20 Power Cord Connects ADC-20 to cigarette lighter socket DCC-21 Power Cord Connects ADC-20 to power source via alligator clips | | |
| 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 S017527 Connects ADC-20 to cigarette lighter socket DCC-21 Power Cord S017528 Connects ADC-20 to power source via alligator clips | | S014696 |
| CLAMP-FC-2000 (pair) 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 DCC-21 Power Cord Connects ADC-20 to power source via alligator clips | 9 1 | S014695 |
| 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 S017527 Connects ADC-20 to cigarette lighter socket DCC-21 Power Cord S017528 Connects ADC-20 to power source via alligator clips | , , , , | |
| ADC-20 AC Adapter S017513 BTR-15 Battery S017512 DCC-11 splicer to ribbon stripper power cord S013852 DCC-20 Power Cord S017527 Connects ADC-20 to cigarette lighter socket DCC-21 Power Cord S017528 Connects ADC-20 to power source via alligator clips | | S014705 |
| BTR-15 Battery S017512 DCC-11 splicer to ribbon stripper power cord S013852 DCC-20 Power Cord S017527 Connects ADC-20 to cigarette lighter socket DCC-21 Power Cord S017528 Connects ADC-20 to power source via alligator clips | | |
| DCC-11 splicer to ribbon stripper power cord DCC-20 Power Cord Connects ADC-20 to cigarette lighter socket DCC-21 Power Cord Connects ADC-20 to power source via alligator clips | · | |
| DCC-20 Power Cord Connects ADC-20 to cigarette lighter socket DCC-21 Power Cord Connects ADC-20 to power source via alligator clips | | |
| Connects ADC-20 to cigarette lighter socket DCC-21 Power Cord Connects ADC-20 to power source via alligator clips | | |
| DCC-21 Power Cord S017528 Connects ADC-20 to power source via alligator clips | | S017527 |
| Connects ADC-20 to power source via alligator clips | | |
| | | S017528 |
| ACC-14 AC Power Cord S014536 | , , , | |
| | ACC-14 AC Power Cord | 5014536 |

| DESCRIPTION | AFL NO. |
|---|---------|
| Miscellaneous | |
| SSO1 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 | S018612 |
| (200 µm pitch for 16 fiber ribbons) | |
| 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

| PARAMETER | | VALUE |
|------------------------------|------------------------------|---|
| Fiber Alignment Method | | Self cladding alignment with melting surface |
| | | tension |
| Fiber Count Can Be Spliced | | Up to 16 fiber ribbon |
| A 10 11 mg | Fiber Type | Single mode optical fiber |
| Applicable Fiber | | Multi mode optical fiber |
| | Cladding Dia. | Approx. 125 µm |
| Applicable Coating | Fiber Holder | Coating shape.: Refer to fiber holder options |
| 11 | | Cleave length: 10 mm |
| | | ITU-T G.652 : Avg. 0.03 dB |
| | Calica Loca | ITU-T G.651 : Avg. 0.02 dB |
| Fiber Splice Performance | Splice Loss | ITU-T G.653 : Avg. 0.08 dB ITU-T G.655 : Avg. 0.08 dB |
| Tibel Splice Ferformatice | | ITU-T G.657 : Avg. 0.05 dB |
| | | SM FAST mode : Avg. 14 to 15 sec. |
| | Splice Time | SM AUTO mode : Avg. 14 to 13 sec. |
| | Sleeve Type | Heat-shrinkable sleeve |
| Applicable Protection Sleeve | Sleeve Length | Max. 66 mm |
| TP Casto Catedion Sicove | Sleeve Dia. | Max. 6.0 mm before shrinking |
| | | 40 mm FP-05 mode : Avg. 38 to 40 sec. |
| Sleeve Heat Performance | Heat Time | 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 |
| | Dimensions W | Approx.170 mm without projection |
| Physical Doccrintion | Dimensions D | Approx.173 mm without projection |
| Physical Description | Dimensions H | Approx.150 mm without projection |
| | Weight | Approx. 2.6 kg including battery |
| | Temperature | Operate : -10 to 50°C |
| | remperature | Storage : -40 to 80°C |
| Environmental Condition | 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 |
| | Туре | Rechargeable Lithium Ion |
| | Output | Approx. DC14.4V / 6,380 mAh |
| Datta Da ala | Capacity | Approx. 165 splice and heat cycles |
| Battery Pack | Temperature | Recharge: 0 to 30°C |
| | · | Storage: -20 to 30°C |
| | Battery Life | Approx. 500 recharge cycles |
| | Recharge Time | Approx. 5 — 8 hours from empty TET 5 inches with touch screen |
| Display | LCD Monitor Magnification | Approx. 20X : 12 Ribbon to 60X : Single |
| Illumination | V-Grooves | LED lamp |
| mummauvii | PC | USB2.0 Mini B type |
| | External Led Lamp | USB2.0 A type, Approx. DC5V, 500 mA |
| Interface | Ribbon Stripper | Mini DIN 6 pin, DC12V, Max. 1A |
| | Wireless | Bluetooth 4.1 LE |
| | Splice Mode | 100 splice modes |
| D | Heat Mode | 30 heat modes |
| Data Storage | Splice Result | 10,000 splices |
| | Splice Image | 100 images |
| Screw Hole For Tripod | - p.100age | 1/4-20 UNC |
| | | Splice mode select by fiber type analysis |
| | | Discharge power calibration |
| | A | Wind protector : open/close |
| O.L | Automatic Functions | Sheath clamp : open |
| Other Features | | Heater lid : open/close |
| | | Heater clamp : open/close |
| | Reference Guide | Video and PDF file stored in splicer |
| | | Replaceable without tool |



CT50 Fiber Cleaver

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

The CT50 is an industry first cleaver ruggedized to withstand severe shock, including drops up to 30 inches. If needed, the CT50 is field serviceable with all precision components easily replaced in the field.

Specifications

| Item | | Value |
|-------------------------|------------------------------|--|
| | Fiber type | Single-mode optical fiber Multimode optical fiber |
| Applicable Fiber | Fiber count Cladding dia. | Single up to 16 fibers Approx. 125 µm |
| Applicable Coating | Fiber plate | AD-10-M24 : Max. 900 µm coating diameter AD-50 : Max. 3 mm coating diameter |
| | Fiber holder | FH- 50, FH-60, FH-70, FH-100 and FH-110 series holders |
| Cleave Length | Fiber plate | AD-10-M24 : 5 to 20 mm for CD \leq 250 μ m AD-50 [CD = coating diameter] CD= 250 μ m or less : 5 to 20 mm 250 μ m $<$ CD $<$ 1000 μ m $:$ 10 to 20 mm 1000 μ m $:$ CD $<$ 3 mm $:$ 14 to 20 mm |
| | Fiber holder | Approx. 10 mm |
| 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 |
| | Dimensions W | Approx. 120 mm when closing the lever |
| Physical description | Dimensions D | Approx. 95 mm when closing the lever |
| , , | Dimensions H | Approx. 58 mm when closing the lever |
| | Weight | 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 1 | | Bluetooth 4.1 LE |
| Screw hole for tripod | | 1/4-20UNC |
| Other features | Blade rotation | Motorized rotation Manual rotation dial |
| one reduces | Replaceable parts | Blade Clamp arm |

1. The CT50 No Bluetooth option has the wireless interface permanently disabled.







Shown in CC-37 Carrying Case

Features

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







CT50 Fiber Cleaver

Ordering Information

| Description | Application | Fiber Handling System | Cleave Length | AFL No. |
|----------------------|---------------------------|--|---|---------|
| CT50 | Single or Ribbon Fiber | AD-10-M24 adapter plate for single fibers or fiber holders for ribbons | See Specifications table on previous page | S017030 |
| CT50 No Bluetooth | Single or Ribbon Fiber | AD-10-M24 adapter plate for single fibers or fiber holders for ribbons | See Specifications table on previous page | S018020 |

Accessories

| Description | AFL No. |
|---------------------------------|---------|
| CB-08 Replacement Blade | S017076 |
| FDB-05 Scrap Collector Box | S017121 |
| AD-50 Adapter Plate | S017010 |
| AD-10-M24 Fiber Plate | S017335 |
| ARM-CT50-01 Replacement Arm Set | S017122 |
| BRW-CT08-01 Blade Rotary Wheel | S017110 |
| SC-CT50-01 Side Cover | S017108 |
| CC-37 Transit Case | S017077 |
| SPA-CT-08-10 Spacer | S017011 |

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.







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



| 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) | 5018331 |
| CC-46 Carrying Case | S018374 |





CT16 Fiber Cleaver

Specifications

| Parameter | | Value |
|-------------------------|--|--|
| | Fiber tune | Single-mode optical fiber |
| Applicable Fiber | Fiber type | Multimode optical fiber |
| | Fiber count | 2 single fibers |
| | Cladding diameter | Approx. 125 μm |
| | Adapter plate | AD-16A: Max 900 μm coating diameter single fiber or 250 μm coating diameter for two fibers |
| Applicable Coating | Adapter plate | AD-16B: Max. 3 mm jacket diameter |
| | Fiber holders | FH-60 and FH-70 series – coating diameter dictated by specific fiber holder |
| | | AD-16A: 5 – 20 mm*1 |
| | Adamsonalas | AD-16B: |
| Cleave Length | Adapter plate | 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 |
| | Dimensions W | Approx.106 mm without projection*4 |
| Physical description | Dimensions D | Approx.95.5 mm without projection*4 |
| | Dimensions H | Approx.49 mm without projection*4 |
| | Weight | Approx. 190 g including AD-16A |
| | Tamparatura | Operate: -10 to 50°C |
| Environmental condition | Temperature | Storage: -40 to 80°C |
| | Humidity | Operate: 0 to 95%RH non-condensing |
| | Humidity | Storage: 0 to 95%RH non-condensing |
| Other features | Blade rotation | Manual dial underneath cleaver |
| | Replaceable items | Cleaver blade |
| | Replaceable Rellis | 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)

| Description | AFL No. |
|---|---------|
| Strippers | |
| RS01 Thermal Stripper | S016815 |
| Includes: RS01 Thermal Stripper, DCC-11 and Instruction manual | |
| RS02 Thermal Stripper | S016816 |
| Includes: RS02 Thermal Stripper, DCC-11, HEX-01 Hex Wrench, BRS-02 Brush | |
| and Instruction manual | |
| RS03 Thermal Stripper | S016817 |
| 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 | |
| RS03-80 Thermal Stripper | S016842 |
| 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 | |
| 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

| Model | RS01 | RS02 | RS03 | RS03-80 |
|---|-----------------------------|--|---|--|
| Applicable optical fiber | Glass optical fibe | rs, 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 mod | de | | |
| 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 | I OS:Android 5.0 or above , | iOS 8.0 or above (iPhone6 or above) |
| Dimensions | 155.5 (W) × 48.7 | 7 (D) × 32.5 (H) mm | 155.5 (W) × 48. | .7 (D) × 36.8 (H) mm |
| Weight | 185 g | | 265 g (with Batt | tery) |
| Power supply | Output: Approx. I | OV, 50/60 Hz, Max — 0.58 A OC 12 V, Max 2A OC10 to 17V, Max — 1A | Output: Approx. DC External Supply: | DC 12 V, Max – 0.58 A DC 12 V, Max 2 A DC10 to 17 V, Max – 1 A DC7.2 V, 1840 mAh (Rechargeable Lithium Ion) |
| Battery capacity Recharge Time Battery Life | N/A | | Approx. 600 stri Approx. 2 hr fro Approx. 500 rec | |
| Operating conditions | Temperature: -10 | to 50°C, Humidity: 0 to 95% RH | | |
| Storage conditions | • | to 60°C, Humidity: 0 to 95% RH | - | |

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 μ m coatings and insulations such as Mylar, KAPTON, TEFLON, PVC and others. It strips away the 250 μ m buffer leaving the 125 μ m 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.



- 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



| 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 |

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.

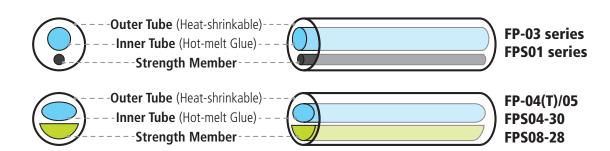
The FPS01 and FPS04 series are specially designed for optical components, where small packaging is a priority. These micro sleeves provide the known reliability of Fujikura sleeves in the smallest possible lengths. This easy and cost effective method is a great alternative to recoating. The FPS01 and 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 |

| 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

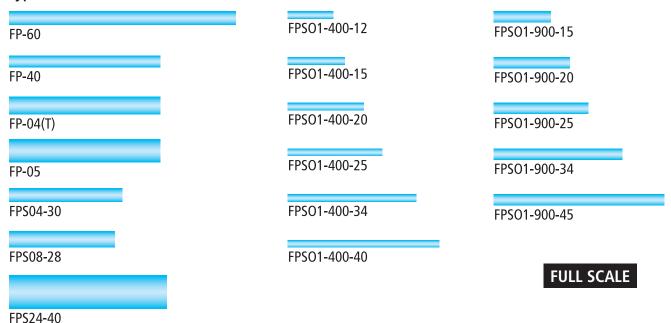
| Description | Sleeve Length | Fiber Cleave Length | Sleeve Diameter After Shrink | Packaging | AFL No. |
|--------------|---------------|---------------------|------------------------------|-----------|---------|
| FPS01-400-12 | 12 mm | 4 mm | 1.5 mm | 50 Pack | S014088 |
| FPS01-400-15 | 15 mm | 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 |
| Ctronath mombar | FPS01 series | Stainless steel |
| Strength member | 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



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 μ m or 250 μ m 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 μ m or 250 μ m 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

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



RT-02 with FH-70-12PC

| 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. |

| Description | AFL NO. |
|---|---------|
| FST-12 Fiber Separation Tool | S014012 |
| Includes: 12-fiber ribbon jaw set, instructional manual and | |
| color coded guick reference guide | |



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.

Ordering Information

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

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



FAA-03A

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.



- 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)

| 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 |



Splicer V-groove Cleaning Refill Kit



CS-1 Cotton Swabs

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.



- 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 plat- | S014773 |
| form (make and model of tripod may change without notice), Portable Worktray and Thumb screw | |
| Portable Worktray – Includes: Portable Worktray, Thumb screw | S014753 |
| Tripod – Includes: Tripod with pan head and quick release platform | S014751 |
| (make and model of tripod may change without notice) | |

Optional Accessories

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



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

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.

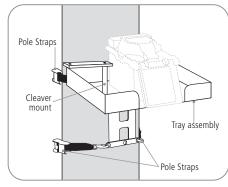
Features

- 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

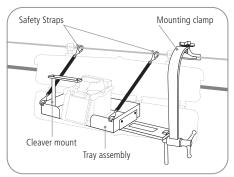
| Description | AFL No. |
|---|---------|
| ASW-02 Splicing Workstation (Full kit with aerial mounting system) | S010532 |
| Includes aerial mounting system to provide strand and pole mounting capability, | |
| a post for attachment to bucket or ladder mount accessories and | |
| a receptacle for tripod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







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

| 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 |



LAZERMaster®

LZM-125A+ Splicing System

The LAZERMaster LZM-125A+ is a splicing and glass processing system that uses a CO_2 laser heat source to perform splicing, tapering (to create MFAs), lensing, or other glass shaping operations with glass diameters of 2.0 mm or less. The high-resolution optical analysis system works in conjunction with on-board firmware for fully automatic splicing, tapering and other glass shaping processes.

High precision glass processing is enabled by the intuitive and user- friendly on-board firmware (virtually identical to that of the Fujikura FSM-100 splicers). Operations may also be performed manually and by PC control. The FPS PC control GUI is supplied with the LZM-125A+ to provide additional features, greater flexibility, and finer control. The FSP GUI may be used on a PC chosen by the customer. Customers can also create proprietary PC control algorithms using a complete set of PC control commands.



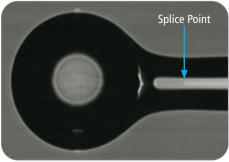
- Fiber Ablation that can be used for cleaving, shaping, or custom mode stripping
- Splices and glass processing of fibers with 80 µm up to 2.0 mm diameter
- High resolution motion for precise control during splicing and glass processing operations
- Extensive library of applications which are transferable between the LZM and FSM family
- FPS PC GUI provides additional measurement capabilities and glass shaping control
- Clean modular laser heat source: Absolutely no deposits on fiber surface as might occur with filaments or electrodes.
- Substantially reduces maintenance and calibration requirements
- Proprietary feedback system ensures heating power stability
- No need for external process gas (as required with filament systems) or Vacuum systems
- Class 1 System with redundant automated laser safety features
- Motorized mirrors to automatically adjust the beam path

| Description | AFL No. |
|--|---------|
| LAZERMaster LZM-125A+ Glass Processing and Splicing System (Standard baseline LZM-125 system. Includes AC adapters and cords and FPS PC software.) | S017800 |
| Optional Tablet PC (includes FPS software pre-installed) (recommended) | S016772 |
| LZM Training (Optional US based at customer locations) | S015867 |
| LZM Training (Optional International) | S015868 |
| Splicer V-groove Cleaning Kit | S014397 |

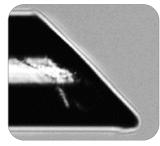




Ablated Fiber Surface



Coreless Ball Lens to Collimate SMF Fiber



Ablated Fiber Surface







LZM-125A+ Splicing System

| Parameter | CO ₂ Laser |
|---|---|
| Fiber Heating and Splicing Method | 30 W standard |
| CO ₂ Laser Power | Metal cover with multiple interlocks, class 1 enclosure, automatic actuation of shutter, automatic laser power cutoff |
| Laser Safety Features | Proprietary feedback system assures laser beam power stability |
| Laser Beam Control | Standard beam size is 4.5 mm X 2 mm and a minimum spot of 30 µm for ablations) |
| Typical Splice Loss | 0.02 dB for SMF (ITU-T G.652) |
| Typical Splice Strength | 100 kpsi for SMF (ITU-T G.652) using appropriate fiber preparation equipment |
| Camera Field of View | 2.3 mm |
| Fiber Observation Methods | PAS (Profile Alignment System) via transverse fiber observation WSI (Warm Splice Image) and WTI (Warm Taper Image) End-view observation |
| Applicable Fiber Diameter | End-view observation |
| V-Groove Clamping System | 80 μm to 2000 μm for automatic alignment by PAS Larger diameter endcaps may be aligned manually |
| Fiber Handling | Infinitely variable from 80 µm up to 2000 µm Clamping bare fiber coating in the "split V-groove" system |
| Alignment Methods | PAS (Profile Alignment System, automatic alignment by camera observation) Manual PC control with Power Meter feedback via GPIB/USB End-view |
| Endless Theta Rotation | 360° endless rotation, angle resolution 0.1° |
| X/Y Alignment Resolution | Sub-micron Sub-micron |
| Maximum Z Travel Length | 18 mm (both left and right Z units) as well as sweep with a total of 36 mm |
| Z Travel Resolution | 0.125 μm theoretical |
| Maximum Taper Length | 32 mm |
| Maximum Taper Ratio | 10:1 standard (For uniform direction, one-pass tapering) Dual direction tapering offers greatly increased taper ratios, as does tapering with more than one tapering pass. |
| Maximum Taper Speed | 1 mm/sec standard |
| Splicing Control | Internal firmware or operation by PC |
| Fiber Tapering and Glass Shaping Control | Internal firmware or operation by PC |
| PC Control | FPS software will be provided Complete command set for PC control |
| PC Option | Optional Tablet PC (includes FPS software pre-installed). |
| | Use of the FPS software on a PC provides finer control and additional features compared to the LZM-110 internal firmware |
| Interface Ports | USB 2.0 (For PC communications, data and image download, etc.) GPIB/USB (for power meter feedback) |
| Electrical Power | 100-240 VAC |
| Operating Conditions / Storage Conditions | |
| Rotation Motors | For LZM-125A+, theta rotational motion is available for PM fiber alignment. |
| PM Fiber Alignment Methods | PAS (For PANDA and other PM fibers) IPA (Interrelation Profile Alignment, applicable to almost all PM fibers. Three distinct IPA methods available.) End-view Power meter feedback (Requires polarizer and analyzer, as well as GPIB interface) Manual Other methods by PC control |
| End-View Observation and Alignment | Internal end-view system |
| Flexibility for Customer Design Input | Customizable platform |



LZM-125M/LZM-125P Splicing System

The LAZERMaster LZM-125M/LZM-125P is a splicing and glass processing system that uses a CO₂ laser heat source to perform splicing, tapering (to create MFAs), lensing, or other glass shaping operations with glass diameters of 2.0 mm or less. The high-resolution optical analysis system works in conjunction with on-board firmware for fully automatic splicing, tapering and other glass shaping processes.

High precision glass processing is enabled by the intuitive and user- friendly on-board firmware (virtually identical to that of the Fujikura FSM-100 splicers). Operations may also be performed manually and by PC control. The FPS PC control GUI is supplied with the LZM-125M/LZM-125P to provide additional features, greater flexibility, and finer control. The FSP GUI may be used on a PC chosen by the customer. Customers can also create proprietary PC control algorithms using a complete set of PC control commands.

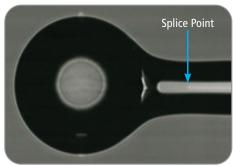


- Splices and glass processing of fibers with 80 µm up to 2.0 mm diameter
- High resolution motion for precise control during splicing and glass processing operations
- Extensive library of applications which are transferable between the LZM and FSM family
- FPS PC GUI provides additional measurement capabilities and glass shaping control
- Clean modular laser heat source: Absolutely no deposits on fiber surface as might occur with filaments or electrodes.
- Substantially reduces maintenance and calibration requirements
- Proprietary feedback system ensures heating power stability
- No need for external process gas (as required with filament systems) or Vacuum systems
- Class 1 System with redundant automated laser safety features
- Motorized mirrors to automatically adjust the beam path

Ordering Information

| Description | AFL No. |
|--|---------|
| LAZERMaster LZM-125M Glass Processing and Splicing System (Standard baseline LZM-125 system. Includes AC adapters, cords and FPS PC software) | S017801 |
| LAZERMaster LZM-125P Glass Processing and Splicing System (Standard baseline LZM-125 system. Includes AC adapters, cords and FPS PC software) | S017803 |
| Optional Tablet PC (includes FPS software pre-installed) (recommended) | S016772 |





Coreless Ball Lens to Collimate SMF Fiber



Tapered Probe with Small Ball End



LZM-125M/LZM-125P Splicing System

Specifications

| Parameter | Value |
|--|---|
| Fiber Heating and Splicing Method | CO ₂ Laser |
| CO ₂ Laser Power | 30 W standard |
| Laser Safety Features | Metal cover with multiple interlocks, class 1 enclosure, automatic actuation of safety shutter, automatic laser power cutoff |
| Laser Beam Control | Proprietary feedback system assures laser beam power stability |
| Typical Splice Loss | 0.02 dB for SMF (ITU-T G.652) |
| Typical Splice Strength | 100 kpsi for SMF (ITU-T G.652) using appropriate fiber preparation equipment |
| Camera Field of View | 2.3 mm |
| Fiber Observation Methods | PAS (Profile Alignment System) via transverse fiber observation WSI (Warm Splice Image) and WTI (Warm Taper Image) |
| Applicable Fiber Diameter | 80 μm to 2000 μm for automatic alignment by PAS Larger diameter endcaps may be aligned manually |
| V-groove Clamping System | Infinitely variable from 80 µm up to 2000 µm Clamping bare fiber or fiber coating Patented "split V-groove" system |
| Fiber Handling | Fujikura FSM-100, FSM-45, and FSM-40 splicer fiber holders |
| Alignment Methods | 3 methods for PM alignment: PAS (Profile Alignment System, automatic alignment by camera observation) Manual Other methods by PC control Power meter feedback via GPIB |
| Endless Theta Rotation | 360° endless rotation for 125P model, angle resolution 0.1° |
| X/Y Alignment Resolution | 0.1 µm |
| Maximum Z Travel Length | 5 mm (both left and right Z units) as well as sweep with a total of 10 mm |
| Z Travel Resolution | 0.125 μm theoretical |
| Maximum Taper Length | 8 mm |
| Maximum Taper Ratio | 10:1 standard (For uniform direction, one-pass tapering) Dual direction tapering offers greatly increased taper ratios, as does tapering with more than one tapering pass. |
| Maximum Taper Speed | 1 mm/sec standard |
| Splicing Control | Internal firmware or operation by PC |
| Fiber Tapering and Glass Shaping Control | Internal firmware or operation by PC |
| PC Control | FPS software will be provided complete command set for PC control |
| PC Option | Tablet computer is available as an option. Use of the FPS software on a PC provides finer control and additional features compared to the LZM-125 internal firmware. |
| Interface Ports | USB 2.0 (For PC communications, data and image download, etc.) GPIB (for power meter feedback) |
| Electrical Power | 100-240 VAC |
| Operating/Storage Conditions | 10 to 40°C / 5 to 60°C |
| Rotation Motors | Optional (Provides theta rotational motion for PM fiber alignment in the LZM-125P model) |
| PM Fiber Alignment Methods | PAS (For PANDA and other PM fibers) IPA (Interrelation Profile Alignment, applicable to almost all PM fibers. Three distinct IPA methods available.) Power meter feedback (Requires polarizer and analyzer, as well as GPIB interface) Manual Other methods by PC control |
| Flexibility for Customer Design Input | Customizable platform |
| | |



LZM-125M+/LZM-125P+ Splicing System

The LAZERMaster LZM-125M+/LZM-125P+ is a splicing and glass processing system that uses a CO₂ laser heat source to perform splicing, tapering (to create MFAs), lensing, or other glass shaping operations with glass diameters of 2.0 mm or less. The high-resolution optical analysis system works in conjunction with on-board firmware for fully automatic splicing, tapering and other glass shaping processes.

High precision glass processing is enabled by the intuitive and user- friendly on-board firmware (virtually identical to that of the Fujikura FSM-100 splicers). Operations may also be performed manually and by PC control. The FPS PC control GUI is supplied with the LZM-125M+/LZM-125P+ to provide additional features, greater flexibility, and finer control. The FSP GUI may be used on a PC chosen by the customer. Customers can also create proprietary PC control algorithms using a complete set of PC control commands.

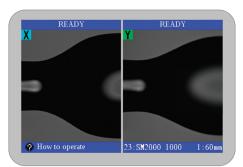


Features

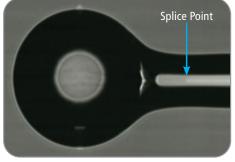
- Splices and glass processing of fibers with 80 µm up to 2.0 mm diameter
- High resolution motion for precise control during splicing and glass processing operations
- Extensive library of applications which are transferable between the LZM and FSM family
- FPS PC GUI provides additional measurement capabilities and glass shaping
- Clean modular laser heat source: Absolutely no deposits on fiber surface as might occur with filaments or electrodes.
- Substantially reduces maintenance and calibration requirements
- Proprietary feedback system ensures heating power stability
- No need for external process gas (as required with filament systems) or Vacuum systems
- Class 1 System with redundant automated laser safety features
- Motorized mirrors to automatically adjust the beam path

Ordering Information

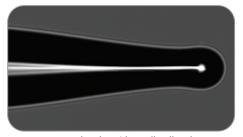
| Description | AFL No. |
|--|---------|
| LAZERMaster LZM-125M+ Glass Processing and Splicing System (Standard baseline LZM-125 system. Includes AC adapters, cords and FPS PC software) | S017802 |
| LAZERMaster LZM-125P+ Glass Processing and Splicing System (Standard baseline LZM-125 system. Includes AC adapters, cords and FPS PC software) | S017804 |
| Optional Tablet PC (includes FPS software pre-installed) (recommended) | S016772 |



Coreless Ball Lens to Collimate SMF Fiber



Coreless Ball Lens to Collimate SMF Fiber



Tapered Probe with Small Ball End





LZM-125M+/LZM-125P+ Splicing System

Specifications

| Parameter | Value |
|--|---|
| Fiber Heating and Splicing Method | CO ₂ Laser |
| CO ₂ Laser Power | 30 W standard |
| Laser Safety Features | Metal cover with multiple interlocks, class 1 enclosure, automatic actuation of shutter, automatic laser power cutoff |
| Laser Beam Control | Proprietary feedback system assures laser beam power stability |
| Typical Splice Loss | 0.02 dB for SMF (ITU-T G.652) |
| Typical Splice Strength | 100 kpsi for SMF (ITU-T G.652) using appropriate fiber preparation equipment |
| Camera Field of View | 2.3 mm |
| Fiber Observation Methods | PAS (Profile Alignment System) via transverse fiber observation WSI (Warm Splice Image) and WTI (Warm Taper Image) End-view observation |
| Applicable Fiber Diameter | 80 μm to 2000 μm for automatic alignment by PAS; Larger diameter endcaps may be aligned manually |
| V-groove Clamping System | Infinitely variable from 80 µm up to 2000 µm Clamping bare fiber or fiber coating Patented "split V-groove" system |
| Fiber Handling | Fujikura FSM-100, FSM-45, and FSM-40 splicer fiber holders |
| Alignment Methods | 4 methods for PM alignment: PAS (Profile Alignment System, automatic alignment by camera observation) Manual Other methods by PC control Power meter feedback via GPIB End-view |
| Endless Theta Rotation | 360° endless rotation for 125P+ model, angle resolution 0.1° (LZM-125P+ only) |
| X/Y Alignment Resolution | 0.1 μm |
| Maximum Z Travel Length | 18 mm (both left and right Z units) as well as sweep with a total of 36 mm |
| Z Travel Resolution | 0.125 μm theoretical |
| Maximum Taper Length | 32 mm |
| Maximum Taper Ratio | 10:1 standard (For uniform direction, one-pass tapering) Dual direction tapering offers greatly increased taper ratios, as does tapering with more than one tapering pass |
| Maximum Taper Speed | 1 mm/sec standard |
| Splicing Control | Internal firmware or operation by PC |
| Fiber Tapering and Glass Shaping Control | Internal firmware or operation by PC |
| PC Control | FPS software will be provided complete command set for PC control |
| PC Option | Tablet computer is available as an option. Use of the FPS software on a PC provides finer control and additional features compared to the LZM-125 internal firmware. |
| Interface Ports | USB 2.0 (For PC communications, data and image download, etc.) GPIB (for power meter feedback) |
| Electrical Power | 100-240 VAC |
| Operating/Storage Conditions | 10 to 40°C / 5 to 60°C |
| Rotation Motors | Optional (Provides theta rotational motion for PM fiber alignment) Available for both left and right fibers, or one side only (depending upon customer requirements) |
| PM Fiber Alignment Methods | PAS (For PANDA and other PM fibers) IPA (Interrelation Profile Alignment, applicable to almost all PM fibers. Three distinct IPA methods available.) End-view Power meter feedback (Requires polarizer and analyzer, as well as GPIB interface) Manual Other methods by PC control |
| End-View Observation and Alignment | Internal end-view system |
| Flexibility for Customer Design Input | Customizable platform |



LZM-100 Splicing System

The LZM-100 LAZERMaster is a glass processing and splicing system that uses a CO₂ laser heat source to perform splicing, adiabatic tapering (to create MFAs or pump combiners), lensing, or other glass shaping operations with glass diameters of 2.3 mm or more.

The high resolution optical analysis system works in conjunction with on-board firmware for fully automatic splicing, tapering and other glass shaping processes.

High precision glass processing is enabled by the intuitive and user-friendly on-board firmware (virtually identical to that of the Fujikura FSM-100 ARCMaster splicers). Operations may also be performed manually and by PC control. An FPS PC control GUI is supplied with the LZM-100 to provide additional features, greater flexibility and finer control. The FPS GUI is pre-installed on the All-in-one computer. Customers can also create proprietary PC control algorithms using a complete set of PC control commands.

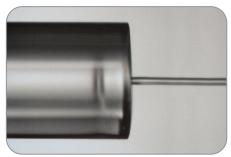
Features

- CO₂ laser heat source eliminates electrode or filament maintenance, provides extremely stable operation and greatly reduces the need for periodic calibration
- Automated laser beam diameter control to fine tune the size of the heating area
- An advanced configurable system capable of producing tapers, ball lenses, combiners.
 - MFAs, glass shaping and splicing
- Excellent performance for dissimilar diameter fiber splicing
- Ultra high strength splicing
- Redundant automated laser safety features
- 2.3 mm maximum fiber diameter (larger fibers may be spliced manually)
- Long travel / high resolution Z motion for long adiabatic tapers
- Automatic operation by on-board LZM-100 splicer firmware, manual operation or operation by PC (PC and FPS GUI included with the LZM-100 system)
- Intuitive FPS PC GUI: Easy to understand, navigate and operate
- Complete set of PC command codes enables users to develop proprietary processes

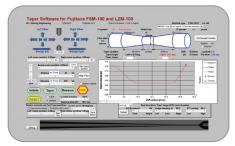
Ordering Information

| Description | AFL No. |
|--|---------|
| LAZERMaster LZM-100 Glass Processing & Splicing System | S015871 |
| (Standard baseline LZM-100 system. Includes AC adapters & cords and SpliceLab PC software) | 50.507. |
| LAZERMaster LZM-100 (with dual theta motors) | S015872 |
| All-in-one Computer (includes keyboard and mouse, monitor stand for mounting all-in-one computer. SpliceLab software pre-installed.) (required) | S015242 |
| End-View Observation & Alignment Option | S015244 |
| Side Table Work Surface Option (Work surface to provide additional area for accessories such as fiber preparation equipment. May be attached to the left or right side of the LZM-100 or both. Folds down against the side of the LZM-100 chassis when not needed or to allow easy movement through narrow doorways.) | S015247 |
| Cylindrical Lens & Lens Holder (optional) | S015251 |
| LZM-100 Training (USA) | S015867 |
| LZM-100 Training (International) | S015868 |
| Splicer V-Groove Cleaning Kit | S014397 |

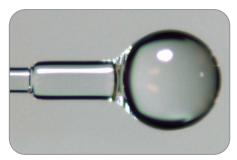




2 mm to 125 µm Splice



Advanced Adiabatic Tapering



Ball Lens 320 μm with 125 Splice to 80 μm Fiber

LZM-100 Splicing System

Specifications

| Parameter | Value |
|--|--|
| Fiber Heating and Splicing Method | CO ₂ Laser |
| CO ₂ Laser Power | 30 W standard (Lasers expected lifetime is 20,000 hrs / 2.3 years before service is required.) |
| Laser Safety Features | Metal cover with interlock, class 1 enclosure |
| | Automatic actuation of safety shutter |
| | Automatic laser power cutoff |
| | • Triple redundancy |
| Laser Beam Control | Proprietary feedback system assures laser beam power stability |
| Edser Deam Control | Laser beam size and shape may be customized to meet specific user requirements |
| Typical Splice Loss | 0.02 dB for SMF (ITU-T G.652) |
| Typical Splice Strength | 100 kpsi observed for SMF (ITU-T G.652) using appropriate fiber preparation equipment |
| Visible Field of View | 2.5 mm (H) X 2.0 mm (W) |
| Fiber Observation Methods | PAS (Profile Alignment System) via transverse fiber observation. |
| riber Observation inethous | |
| | WSI (Warm Splice Image) and WTI (Warm Taper Image) Fad view absorbation (Optional) |
| A 1: 11 F1 D: . | • End-view observation (Optional) |
| Applicable Fiber Diameter | 80 μm to 2300 μm for automatic alignment by PAS |
| V.C | Larger diameter fibers may be aligned manually or by power meter feedback |
| V-Groove Clamping System | • Infinitely variable from 80 μm up to 2300 μm |
| | Clamping bare fiber or fiber coating |
| | Patented "split V-groove" system |
| Fiber Handling | Fujikura FSM-100, FSM-45 and FSM-40 splicer fiber holders |
| | Custom fixtures to meet specific customer requirements |
| Alignment Methods | PAS (Profile Alignment System, automatic alignment by camera observation) |
| | Manual |
| | Other methods by PC control |
| | Power meter feedback via GPIB (Optional) |
| | • End-view (Optional) |
| X/Y Alignment Resolution | Sub-micron Sub-micron |
| Maximum Z Travel Length | 150 mm (both left and right Z units) |
| Z Travel Resolution | Sub-micron |
| Maximum Taper Length | 130 mm |
| Maximum Taper Ratio | 10:1 standard (For uniform direction, one-pass tapering) |
| That is a per state | Dual direction tapering offers greatly increased taper ratios, as does tapering with more than one tapering pass. |
| Maximum Taper Speed | 1 mm/sec standard (Optional 5 mm/sec) |
| Splicing Control | Internal firmware or operation by PC |
| Fiber Tapering & Glass Shaping Control | Internal firmware or operation by PC |
| PC Control | SpliceLab software will be provided |
| re control | Complete command set for PC control |
| DC Oution | |
| PC Option | An all-in-one computer is required. Use of the SpliceLab software on a PC provides finer control and additional features |
| | compared to the LZM-100 internal firmware. Using another software application, the PC interface also allows for |
| 1 | advanced maintenance functions such as the ability to confirm laser beam alignment, and align if required. |
| Interface Ports | USB 2.0 (For PC communications, data and image download, etc.) |
| -1 | GPIB (Optional, for power meter feedback) |
| Electrical Power | 100-240 VAC |
| Operating/Storage Conditions | +10° to +30°C / +5° to +40°C |
| Rotation Motors | Optional: Provides theta rotational motion for PM alignment for both left and right sides |
| PM Fiber Alignment Methods | • PAS (For PANDA and other PM fibers) |
| | • IPA (Interrelation Profile Alignment, applicable to almost all PM fibers. Three distinct IPA methods available.) |
| | • End-view (Optional) |
| | • Power meter feedback (Requires polarizer and analyzer, as well as optional GPIB interface) |
| | • Manual |
| | Other methods by PC control |
| End-View Observation & Alignment | Optional internal end-view system |
| o o o o a / mg/m/c/lt | |

Preliminary Specifications, subject to revision and refinement



ARCMaster

FSM-100M and FSM-100P Fusion Splicers

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) | S014821 |
| 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 | |
| ARCMaster FSM-100M Fusion Splicer Kit * | S014822 |
| ARCMaster FSM-100P Fusion Splicer (machine only) | S014823 |
| 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 | |
| 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.



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 | FSM-100M: 7.5 kg |
| (excluding AC adapter) | 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 | S013632 |
| Includes: USC-02, AFL PowerStrip and AFL PowerCleave | |
| Ultrasonic Cleaner (USC-02) | S014783 |
| HTS-12 High Tensile Stripper - includes 250 µm blades | S012094 |
| (400 μm available) | |
| AFL PowerStrip High Tensile Stripper | S012808 |
| AFL PowerCleave High Strength Cleaver | S009972 |
| Strippers | 5045045 |
| RS01 Thermal Stripper | S016815 |
| RSO3-80 Thermal Stripper | S016842 |
| SPA-RS02-08 Spacer | S016818 |
| ELCT2-25 Spare Electrodes (pair) | S002068 |
| Cleavers | 3002000 |
| CT52 Cleaver | S017078 |
| CT58 Cleaver (for 80 µm cladding) | S017078 |
| Fiber Holders (Pairs) | 3017037 |
| FH-110-60 Fiber Holder | S018215 |
| FH-110-100 Fiber Holder | S018216 |
| FH-110-125 Fiber Holder | S018217 |
| FH-110-150 Fiber Holder | S018217 |
| FH-110-180 Fiber Holder | S018219 |
| FH-110-210 Fiber Holder | S018219 |
| 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 | S018225 |
| FH-110-700 Fiber Holder | S018227 |
| FH-110-800 Fiber Holder | S018227 |
| FH-110-900 Fiber Holder | S018229 |
| Power and Cords | 3010229 |
| 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 | 3011330 |
| 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 |

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.

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



FSR-115



FSR-116



FSR-117

Specifications

| Parame | eter | FSR-115 | FSR-116 | FSR-117 |
|--|--------------------------|--|--------------------------------------|----------------------------------|
| Applicable optical fiber | | Single Fiber | | |
| Applicable fiber coating | g 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 | 5 11 | | | |
| Load application and mechanism — Linear Flat Clamp Ma | | Mandrel Wrap | | |
| Tension | | | | 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 | | | to 30°C, 0 to 95% RH non-conde | 3 |
| AC Adapter | Input power Output power | AC 100 V to 240 V, 50/60 Hz Max, 1.5 A (ADC-21A) 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 | | |
| Recoating 100 programmable modes 5000 finished recoats | | | | |
| | Proof testing | 30 programmable modes 5000 finished proof test results | | |
| Wireless communicatio | | | | |
| 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.



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 | S018142 |
| 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 | |
| FSR-116 Recoater Body | S018143 |
| 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 | |
| FSR-117 Recoater Body | S018144 |
| 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 | |
| FSR-115 Kit with 280 μm mold and 225-275 μm inserts | S018170 |
| 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 | |
| FSR-116 Kit with 280 μm mold and 225-275 μm inserts | S018171 |
| 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 | |
| FSR-117 Kit with 280 μm mold and 225-275 μm inserts | S018172 |
| 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 | |

Accessories

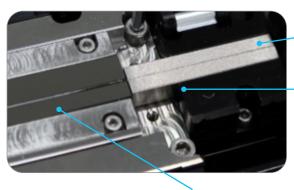
| Description | AFL No. |
|--|---------|
| MOLDS | |
| FSR-115/116/117 195 μm Mold | S018146 |
| FSR-115/116/117 255 μm Mold | S018147 |
| FSR-115/116/117 280 μm Mold | S018145 |
| FSR-115/116/117 320 μm Mold | S018148 |
| FSR-115/116/117 330 μm Mold | S018149 |
| FSR-115/116/117 450 μm Mold | S018150 |
| 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 |





New Insert System



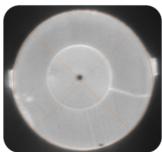
Glass Mold

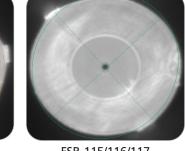


Insert for initial fiber height adjustment

Shim underneath insert for fine-tuned height adjustments

Simple. Repeatable. Concentric.

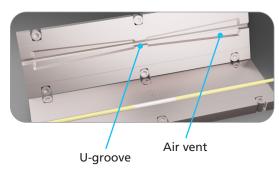


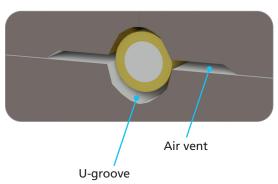


Others

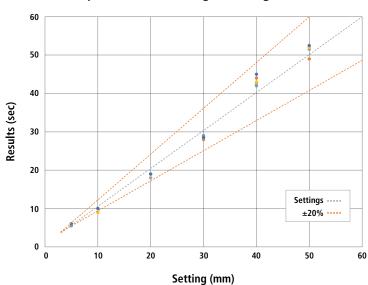
FSR-115/116/117

Improved Mold Design





Comparison Recoat Length Settings vs. Results¹



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

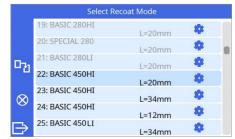
continued



RFID for Mold Identification by the FSR



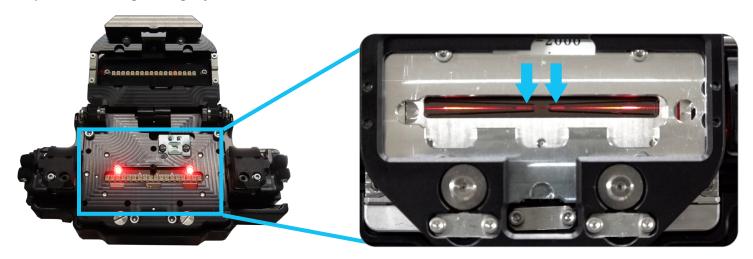




Suggests suitable programs

Underside of Mold

Improved Viewing During Injection



Mold Removed

Mold Viewing Window

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.

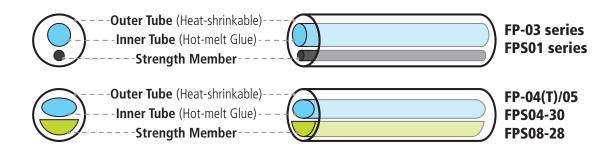
Standard Sleeves: Dimensions & Applicable Fiber

| 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

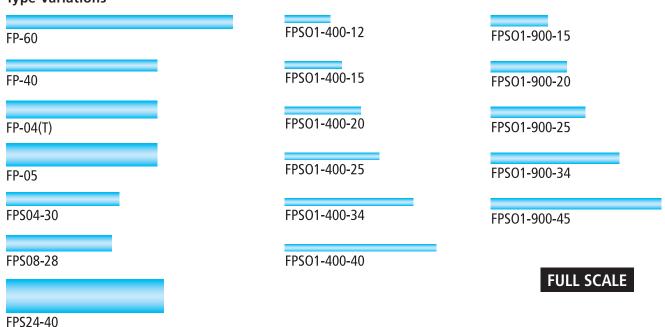
| Description | Sleeve Length | Fiber Cleave Length | Sleeve Diameter After Shrink | Packaging | AFL No. |
|--------------|---------------|---------------------|------------------------------|-----------|---------|
| FPS01-400-12 | 12 mm | 4 mm | 1.5 mm | 50 Pack | S014088 |
| FPS01-400-15 | 15 mm | 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 |
| Church with we are born | FPS01 series | Stainless steel |
| Strength member | 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*

Specifications

| lten | 1 | Value |
|-------------------------|-------------------|---|
| | Fiber type | Single-mode optical fiber |
| Applicable Fiber | Tibel type | Multimode optical fiber |
| Applicable Tibel | Fiber count | Up to 12 fiber ribbon |
| | Cladding dia. | Approx. 125 μm |
| | Fiber plate | AD-10-M24 : Max. 900 µm coating diameter |
| Applicable Coating | · | AD-50 : Max. 3 mm coating diameter |
| | Fiber holder | Coating shape. : Refer to splicer fiber holder options |
| | | CD = Coating Diameter |
| | | AD-10-M24 |
| | | 3 to 20 mm for CD ≤ 250 µm |
| Classical amounts | Fiber plate | 8 to 20 mm for CD 251 – 400 μm |
| Cleave Length | · | 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 |
| | Single fiber | Avg. 0.3 to 0.9 degrees |
| Cleave Angle | Fiber ribbon | Avg. 0.3 to 1.2 degrees |
| Blade Life | TIBET TIBBOTT | Approx. 60,000 fiber cleaves |
| | Dimensions W | Approx. 120 mm when closing the lever |
| Physical description | Dimensions D | Approx. 95 mm when closing the lever |
| , , | Dimensions H | Approx. 58 mm when closing the lever |
| | Weight | Approx. 305 g including battery and AD-10-M24 |
| | Tomporatura | Operate : -10 to 50°C |
| Environmental condition | Temperature | Storage: -40 to 80°C |
| | Humidity | Operate: 0 to 95% non-condensing |
| | Trumuity | 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 |
| | Blade rotation | Motorized rotation |
| Other features | Didde Totation | Manual rotation dial |
| | Replaceable parts | Blade |
| | 1 | Clamp arm |



Shown in CC-37 Carrying Case

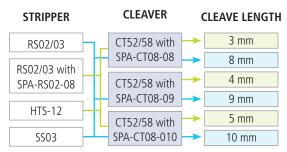
Features

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



CT52 Fiber Cleaver

Cleaver Selection



Ordering Information

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

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 | 5017388 |
| 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.











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.

Specifications

| Specifications | | |
|-------------------------------|--|--|
| Iten | n | Value |
| Angliankla Fiban | Fiber type | Single-mode optical fiber Multimode optical fiber |
| Applicable Fiber | Fiber count Cladding dia. | Single Approx. 80 μm |
| Applicable Coating | Fiber plate Fiber holder | AD-10-M24 : Max. 400 µm coating diameter AD-50 : Max. 400 µm coating diameter Coating shape. : Refer to splicer fiber holder options |
| Cleave Length | Fiber plate | CD = Coating Diameter AD-10-M24 3 to 20 mm for CD \leq 250 μ m 8 to 20 mm for CD 251 $-$ 400 μ m AD-50 CD= 250 μ m or less : 3 to 20 mm 250 μ m $<$ CD $<$ 400 μ m : 8 to 20 mm See Cleaver Selection table on next page |
| Cleave Angle | Single fiber | Avg. 0.3 to 0.9 degrees |
| Blade Life | single naci | 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 Wireless interface | | 2 pieces of LR03/AAA dry battery Bluetooth 4.1 LE |
| Screw hole for tripod | | 1/4-20UNC |
| Other features | Blade rotation | Motorized rotation Manual rotation dial |
| other reatures | Replaceable parts | Blade Clamp arm |





Shown in CC-37 Carrying Case

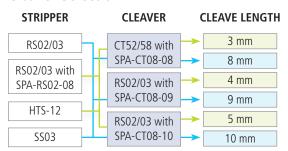
Features

- 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.









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



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

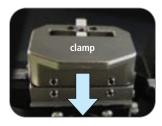
CT-116 Features

- 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



Automatic Blade Position Change

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



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

Specifications

| Param | eter | 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 | | via motor | | |
| Tension range ² | | 0 to 3,000 gf (29.4 N) | |) gf (98.1 N) | | |
| Cleaving length ³ | | | 30-75 mm | | | |
| | | Α | verage 0.2° (Cladding diameter 125 μι | m) | | |
| Cleaving angle | | А | verage 0.3° (Cladding diameter 400 μι | m) | | |
| J J | | Average 0.4° (Cladding diameter 660 μm) ⁵ | Average 1.0° (Claddin | g 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 μι | m cladding fiber) | | |
| Dimensions (WxDxH) | | 240 x 133 x 142 mn | n without projections | 240 x 133 x 151 mm without projections | | |
| Weight | | 3.6 kg without inserts and with fiber holder adapter | kg without inserts and with fiber holder adapter 3.9 kg without inserts and with fiber holder adapter | | | |
| Humidity | | holder adapter holder adapter holder adapter holder adapter 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 mode | es | | Maximum 100 | | | |
| Cleave results | | | 10,000 cleave data | | | |
| AC Adapter | | Input: | AC 100 V to 240 V (50 or 60 Hz) (max. Output: DC 19 V, Max. 2.1 A | . 1.5 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 | | | | |
| | | Automatic cleave mode selection via RFID tag | | | | |
| Other Features | Automatic Functions | 1 3 | | | | |
| | | Automatic tension adjustment | | | | |
| PC Software | | Firmware update via internet Cleave mode and parameter upload and download | | | | |
| | | Cleave illoue allu parallietei upioau allu uowilloau | | | | |

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.



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 |





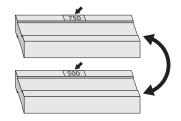
Insert Selection Guide

| Upper Insert | | | | | | | | | | | | | |
|---------------------------------|------|----------|-------------------|----------|-----------|-----------|-----------|-----------------|-----------|-------------------------|-----------|-------------------------|--|
| LOWER INSERT | | INSERT- | INSERT-U-500-7501 | | - | | _ | ERT-)-17501 | _ | INSERT- U-2000-22501 | | INSERT- U-2500-30001 | |
| | | U-80-400 | 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 | | | | | | | | | |
| 11\13L1\1-L-300-730 | 750 | | 634-868 | 717-1000 | 787-1000 | | | | | | | | |
| INSERT-L-1000-1250 ¹ | 1000 | | | 884-1118 | 954-1188 | | | | | | | | |
| 1113EINT E 1000 1230 | 1250 | | | | 1120-1355 | 1204-1438 | 1287-1522 | | | | | | |
| INSERT-L-1500-1750 ¹ | 1500 | | | | | 1370-1605 | 1454-1688 | 1537-1772 | | | | | |
| 11\13L1\1-L-1300-1730 | 1750 | | | | | | 1620-1855 | 1704-1938 | 1780-2015 | | | | |
| INSERT-L-2000-22501 | 2000 | | | | | | | 1870-2115 | 1947-2288 | | | | |
| IIN3EKI-L-2000-2230 | 2250 | | | | | | | | 2114-2348 | 2197-2432 | 2280-2515 | | |
| INSERT-L-2500-3000 ¹ | 2500 | | | | | | | | | 2364-2598 | 2447-2682 | 2614-2848 | |
| IIN3FVI-F-5300-2000. | 3000 | | | | | | | | | | 2780-3015 | 2947-3182 | |

Note:

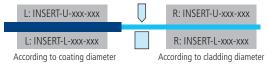
Upper and lower inserts can be changed up or down depending on required fiber fit into the V-groove.

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



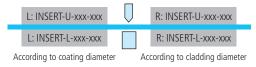
Upper and lower inserts are necessary for both left and right side clamps.

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.

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

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.

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





CT-110 Blade



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

Specifications

| Parameter | | CT-110 | CT-111 | | | |
|---------------------------------|-------------------|--------------------------------------|------------------------------------|--|--|--|
| | Fiber Type | Silica | Fiber | | | |
| Applicable Fiber | Fiber Count | Single Fiber | | | | |
| Applicable Fiber | Cladding Diameter | 80 to 250 μm | | | | |
| | Coating Diameter | 81 to 2, | 000 μm | | | |
| Applicable Fiber Holder | | FH-100, FH-110, and o | optional FH-70 series ¹ | | | |
| Tension range ² | | 0 to 9 | 900 gf | | | |
| Total fiber length ³ | | Approx. 1 | 1-44 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 | | | |
| | Width | Approx. 140 mm v | vithout protrusions | | | |
| Dlavaiaal | Depth | Approx. 106 mm without protrusions | | | | |
| Physical | Height | Approx. 103.5 mm without protrusions | | | | |
| | Weight | Approx. 810g without batteries | Approx. 850g without batteries | | | |
| | Temperature | Operate: 0° | Operate: 0°C to 40°C | | | |
| Environmental Conditions | remperature | Storage: -40°C to 80°C | | | | |
| Environmental Conditions | Humidity | Operate: 0 to 95% RH non-condensing | | | | |
| | Trummarty | Storage: 0 to 95% RH non-condensing | | | | |
| AC Adapter | Input | AC 100V to 240V, 5 | 50/60 Hz, Max. 1.5A | | | |
| AC Adapter | Output | Approx. DC 1 | Approx. DC 19V, Max 2.1A | | | |
| Battery | Type | X4 AA batteries (A | ANSI AA / IEC LR6) | | | |
| Dattery | Life | Approx. 250 fiber cleaves with stan | ıdard 125 μm cladding dia. at 25°C | | | |
| PC Connection Terminals | | USB 2.0 Mini Type-B 7 | | | | |
| Gound Applicable by M3 tru | | | | | | |
| Wireless Communication | RFID | Compliant with ISO 15693 7 | | | | |
| PC Software | | Firmware update via internet | | | | |
| i C Juliwale | | Cleave mode edit, uploa | d, 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.



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, | S009972 |
| and 2 mm Allen wrench | |

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 guick 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

| Paran | neter | Value |
|---------------------|------------------------------|---|
| Applicable Fiber | Fiber Type | Silica Fiber |
| | Fiber Count | Single Fiber |
| | Cladding/Coating Diameter | Dictated by blade option selected. Standard offerings are 80/160 μ m, 125/250 μ m, 125/900 μ m, 250/400 μ m and 400/550 μ m |
| 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 |
| | Width | Approx. 140 mm without protrusions |
| Physical | Depth | Approx. 106 mm without protrusions |
| | Height | Approx. 103 mm without protrusions |
| | Weight | Approx. 900 a |













SS-110 Specialty Fiber Stripper

Specifications (cont.)

| Parameter | | Value | |
|-----------------------------|-------------|---|--|
| Environmental Conditions | Temperature | Operate: 0°C to 40°C | |
| | | Storage: -40°C to 80°C | |
| | I I | Operate: 0 to 95% RH non-condensing | |
| | Humidity | Storage: 0 to 95% RH non-condensing | |
| AC Adaptor | Input | AC 100 V to 240 V, 50/60 Hz, Max. 1.5 A | |
| AC Adapter | 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 | |
| PC 2011Wate | | 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 |



| 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 |





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 PERFORMANC | |
|----------------------------|--|
| 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 STORA | GE 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) |

Ordering Information

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

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 |

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.

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 705, 195 and 125.



| 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 | S014974 |
| | and REG-01 Air Pressure Regulator | |
| APM-102 Automatic Preparation Machine (requires FH-70-250 Fiber Holder) | | |
| | Includes: ADC-15 AC Adapter, ACC-02 Power Cord, ALC-01 Alcohol Container | S015904 |
| | and REG-01 Air Pressure Regulator | |

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 |



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.

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

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 |





Included Accessories

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

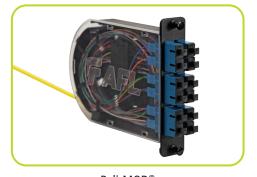


OPM5 Optical Power Meter and OLS4 Light Source

FIBER INSIDE PLANT



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



Poli-MOD® Patch and Splice Module





