



TABLE OF CONTENTS

FUSION SPLICING SYSTEMS..... 3

    Core Alignment Fusion Splicers..... 3

        Fujikura 90S+ Fusion Splicer..... 3

    Ribbon Splicers..... 4

        Fujikura 90R Fusion Splicer..... 4

    Active Cladding Alignment Fusion Splicers..... 5

        Fujikura 45S Fusion Splicer..... 5

FIBER CLEAVERS ..... 6

    Fujikura CT50 Fiber Cleaver ..... 6

    Fujikura CT16 Fiber Cleaver ..... 6

    Cleaver Accessories ..... 6

FIBER STRIPPERS..... 7

    Thermal and Mechanical Strippers ..... 7

ACCESSORIES & CONSUMABLES ..... 7

    Consumables – Splice Sleeves..... 7

    Splicer Kit Items..... 8

    Splicing Accessories..... 8

REVISION CHANGES HISTORY ..... 9

## FUSION SPLICING SYSTEMS

### Core Alignment Fusion Splicers

#### Fujikura 90S+ Fusion Splicer

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.

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.

Maximize productivity in the field with the Fujikura 90S+ core alignment splicer with active blade management technology!

AFL No.	Model	Price
<b>S017519</b>	90S+ Fusion Splicer (machine only)	\$10,079.00
<b>S017521</b>	90S+ Fusion Splicer Kit (with CT50 Cleaver)	\$11,252.00
<b>S017520</b>	90S+ Fusion Splicer without Bluetooth (machine only)	\$10,079.00
<b>S018582</b>	Fujikura SpliceReady 90S+ Splicer Kit	\$11,923.87
<b>S018623</b>	AFL Tote solution for Milwaukee® Packout™ system	\$120.00
<b>S012996</b>	One Year Extended Warranty	\$1,135.00
<b>S013000</b>	Two-Year Extended Warranty	\$1,700.00

\* 90S+ comes with a 2-year warranty.



#### Features

- Cleaver tracking and upkeep with wireless communication
- Improved real-time arc control for fibers with poor cleave angles
- Loose and tight buffer with same sheath clamp
- Automated wind protector, sheath clamps and splice operation
- Graphical User Interface with 5.0" Touchscreen
- PC software and 90S+ manual downloaded from splicer
- Multi-function transit case with integrated workstation and optional PACKOUT™ tote solution
- Lithium-ion battery with 300 splices/shrinks per charge



90S+ Wind Protector Open



90S+ In Work Tray



CT50 Cleaver



## Ribbon Splicers

### Fujikura 90R Fusion Splicer

The Fujikura 90R is the mass fusion splicer workhorse of the fiber industry.

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.

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. Frequently moving in and out of locations? With the optional 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.

Save operator's time for other fiber preparation steps with 90R's automated splice start, wind protector, cleave tracking, and blade rotations for up to 2 cleavers at a time!"

### Features

- Cleave 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 and optional PACKOUT™ tote solution

AFL No.	Model	Price
<b>S017509</b>	90R Fusion Splicer (machine only)	\$13,916.00
<b>S017511</b>	90R Fusion Splicer Kit (CT50 Cleave and RS03 Thermal Stripper)	\$16,103.40
<b>S017540</b>	90R Fusion Splicer without Bluetooth (machine only)	\$13,916.60
<b>S017510</b>	90R Fusion Splicer kit without Bluetooth (with CT50 Cleave and RS01 Thermal Stripper)	\$16,057.62
<b>S018583</b>	Fujikura SpliceReady 90R Splicer Kit	\$16,583.48
<b>S018584</b>	Fujikura SpliceReady 90R 200 µm Splicer Kit	\$18,102.48
<b>S018623</b>	AFL Tote solution for Milwaukee® Packout™ system	\$120.00
<b>S012996</b>	One Year Extended Warranty	\$1,500.00
<b>S013000</b>	Two Year Extended Warranty	\$2,250.00

\* 90R comes with a 2-year warranty.



90R In Work Tray



90R In Work Tray



CT50 Cleave



RS03 Thermal Stripper

## Active Cladding Alignment Fusion Splicers

### Fujikura 45S Fusion Splicer



45S Fusion Splicer

#### 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
- Multi-function transit case with integrated workstation and optional PACKOUT™ tote solution

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. 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. 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.

AFL No.	Model	Price
<b>S018318</b>	45S Fusion Splicer Kit (with CT50 Cleaver)	\$4,440.60
<b>S018319</b>	45S Fusion Splicer (machine only)	\$3,594.35
<b>S018314</b>	35S Standard Kit with CT16 Cleaver and Fiber Holders	\$3,910.49
<b>S018316</b>	35S Fusion Splicer Kit with Fiber Holders and No Cleaver	\$3,417.10
<b>S018581</b>	Fujikura SpliceReady 45S Splicer Kit	\$4,863.51
<b>S018623</b>	AFL Tote solution for Milwaukee® Packout™ system	\$120.00
<b>S012996</b>	One Year Extended Warranty	\$1,000.00
<b>S013000</b>	Two Year Extended Warranty	\$1,500.00

\* All Active Cladding Alignment Fusion Splicers come with a 1 year warranty.



35S Splicer



CT50 Cleaver



CT16 Cleaver

## FIBER CLEAVERS

### Fujikura 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.

AFL No.	Model	Price
<b>S017030</b>	CT50 – Single Fiber or Ribbon (Bluetooth)	\$1,232.00

### Fujikura 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 SS05. 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.

AFL No.	Model	Price
<b>S018330</b>	CT16 – Single Fiber	\$726.00

### Cleaver Accessories

AFL No.	Model	Price
<b>S017076</b>	CB-08 (Replacement Blade for CT50)	\$107.50
<b>S018335</b>	CB-09 (Replacement Blade for CT16)	\$97.50
<b>S017122</b>	ARM-CT50-01 (Replacement Pads/Anvil)	\$132.00
<b>S018373</b>	ARM-CT16-01 (Replacement Pads/Anvil)	\$132.00



CT50 Cleaver



CT16 Cleaver



## FIBER STRIPPERS

### Thermal and Mechanical Strippers

The RS01, RS02, and RS03 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.

AFL No.	Model	Price
S016815	RS01 - Thermal	\$795.00
S016816	RS02 - Thermal (Bluetooth)	\$795.00
S016817	RS03 - Thermal (Bluetooth and Cordless)	\$1,205.00
S017098	SS03 - Mechanical (Hand Tool)	\$41.80
S018327	SS05 Dual Fiber Coating Stripper	\$44.00
S018613	AFL Precision Strip 125/900 Kit (Battery Powered)	\$289.50
S018614	AFL Precision Strip Replacement 125/900 Blades	\$104.55
S018615	AFL Precision Strip Replacement 900 µm Centralizer	\$26.40
S018616	AFL Precision Strip Replacement Heater Cartridge	\$92.40
S018617	AFL Precision Strip Push Out Tool	\$5.75
S018618	AFL Precision Strip Cleaning Brush	\$5.75

## ACCESSORIES & CONSUMABLES

### Consumables – Splice Sleeves

AFL No.	Model	Description	Cost per sleeve	Price
S015915	60 mm (Single Splice)	QTY: 1000 box / 100 pack	\$0.32	\$320.00 per box
S015916	40 mm (Single Splice)	QTY: 1000 box / 100 pack	\$0.32	\$320.00 per box
S003027	40 mm (Ribbon –12 fiber)	QTY: 250 – 999	\$1.65	\$1.65 x QTY
		QTY: 1000 – 4999	\$1.33	\$1.33 x QTY
		QTY: 5000+	\$1.18	\$1.18 x QTY



RS01 Thermal Stripper



RS02 Thermal Stripper



RS03 Thermal Stripper



SS03 Fibre Strippers



SS05 Dual Fiber Coating Stripper



Splice Protection Sleeves



Splicer V-Groove Cleaning Kit



FH-70-900



RT-02 Ribbonizing Tool



Portable Tripod Worktray Kit



FH-70-16-200



FH-70-16PC



VG16-01-200



Mobile Splicing Workstation

## Splicer Kit Items

AFL No.	Model	Price
S017548	12 Fiber V-grooves (90R)	\$940.00
S017103	Electrodes (90 series, 31/41S, 35/45S)	\$89.75
S017524	Tripod Screw (90 series, 31/41S, 35/45S, CT50)	\$23.50
S017512	90 Series Battery	\$363.00
S014536	90 Series Power Cord	\$22.00
S017513	90 Series AC Adapter	\$220.00
S014390	RX0X, 31/41S, 35/45S Power Cord	\$21.39
S018324	BTR-17 Battery Pack (35/45S)	\$330.00
S018168	ADC-21 AC Adapter (35/45S)	\$220.00

## Splicing Accessories

AFL No.	Description	Price
S014397	Splicer V-Groove Cleaning Kit	\$156.04
S014416	Splicer V-Groove Cleaning Kit Refill	\$50.66
S010212	FAT-04 Fiber Arrangement Tool – for forming temporary ribbons	\$528.00
S008622	FAA-03A Ribbon Adhesive (0.5 liter bottle)	\$187.00
S017465	RT-02 Ribbonizing Tool (No Glue)	\$174.62
S014012	FST-12 Ribbon Separation Tool	\$1,298.00
S014773	Portable Tripod Workstation	\$594.72
S017111	250 µm Single Fiber Holders (Pair)	\$285.00
S017113	FH-70-900, 900 µm Single Fiber Holders (Pair)	\$285.00
S017119	12 Fiber 250 µm Ribbon Fiber Holders (Pair)	\$285.00
S018333	CLAMP-S35B Loose Buffer Sheath Clamp (35/45S)	\$154.00
S014753	Portable Splicing Worktray	\$355.82
S014773	Portable Tripod Worktray Kit	\$594.72
S018610	FH-70-16-200 Fiber Holder for 200 µm pitch ribbons	\$285.00
S018611	FH-70-16PC Fiber Holder for 16 fibers pitch conversion	\$748.00
S018612	VG16-01-200 16 Fiber V-Groove for 200 µm pitch	\$990.00
S018625	AFL Mobile Splicing Workstation	\$295.00
S018642	AFL Mobile Splicing Workstation - Apex stand add-on (includes Mobile Splicing Workstation, mounting hardware, and Apex stand)	\$912.00
S018645	AFL Mobile Splicing Workstation with stand mounting hardware (does not include Apex stand)	\$420.00
S018646	Apex Stand with mounting hardware for Workstation mounting (does not include Mobile Splicing Workstation)	\$617.00



# REVISION CHANGES HISTORY

July 15, 2025

## Added New Products

AFL NO.	Description	Price	Page
Core Alignment Fusion Splicers			
S018642	AFL Mobile Splicing Workstation - Apex stand add-on (includes Mobile Splicing Workstation, mounting hardware, and Apex stand)	\$912.00	8
S018645	AFL Mobile Splicing Workstation with stand mounting hardware (does not include Apex stand)	\$420.00	8
S018646	Apex Stand with mounting hardware for Workstation mounting (does not include Mobile Splicing Workstation)	\$617.00	8

May 1, 2025

## Added New Products

AFL NO.	Description	Price	Page
Core Alignment Fusion Splicers			
S018623	AFL Tote solution for Milwaukee® Packout™ system	\$120.00	3,4,5