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FUSION SPLICING SYSTEMS

Core Alignment Fusion Splicers

Fujikura 100S Fusion Splicer

Built for the demands of modern fiber installation, the Fujikura 100S Fusion Splicer combines intelligent automation with user-first design to streamline daily splicing tasks. From faster fiber preparation and alignment to smart adjustments that eliminate manual guesswork, the 100S helps technicians work more efficiently and with greater confidence. Its customizable interface adapts to the user, not the other way around, while thoughtful ergonomics and robust engineering ensure consistent, high-quality splices in any environment. Whether you're on a tight schedule or tackling complex jobs, the 100S is designed to save time, reduce errors, and support peak performance in the field.

AFL No.	Model	
S018656	Fujikura 100S Fusion Splicer (machine only)	
S018655	Fujikura 100S Standard Fusion Splicer Kit (with cleaver)	
S018657	Fujikura 100S Fusion Splicer without Bluetooth (machine only)	
S018660	Fujikura SpliceReady 100S Splicer Kit	
S012996	One-Year Extended Warranty	
S013000	Two-Year Extended Warranty	

* 100S+ comes with a 2-year warranty.

Features

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



Fujikura 100S Fusion Splicer



Fujikura 100S Fusion Splicer In Work Tray



CT60 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	
S017509	90R Fusion Splicer (machine only)	
S017511	90R Fusion Splicer Kit (CT50 Cleave and RS03 Thermal Stripper)	
S017540	90R Fusion Splicer without Bluetooth (machine only)	
S017510	90R Fusion Splicer kit without Bluetooth (with CT50 Cleave and RS01 Thermal Stripper)	
S018583	Fujikura SpliceReady 90R Splicer Kit	
S018584	Fujikura SpliceReady 90R 200 µm Splicer Kit	
S018623	AFL Tote solution for Milwaukee® Packout™ system	
S012996	One Year Extended Warranty	
S013000	Two Year Extended Warranty	

* 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	
S018318	45S Fusion Splicer Kit (with CT50 Cleaver)	
S018319	45S Fusion Splicer (machine only)	
S018314	35S Standard Kit with CT16 Cleaver and Fiber Holders	
S018316	35S Fusion Splicer Kit with Fiber Holders and No Cleaver	
S018581	Fujikura SpliceReady 45S Splicer Kit	
S018623	AFL Tote solution for Milwaukee® Packout™ system	
S012996	One Year Extended Warranty	
S013000	Two Year Extended Warranty	

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



35S Splicer



CT50 Cleaver



CT16 Cleaver



CT60 Cleaver



CT16 Cleaver

FIBER CLEAVERS

Fujikura CT60 Fiber Cleaver

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

Features

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

AFL No.	Model	
S018654	CT60	

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	
S018330	CT16 – Single Fiber	

Cleaver Accessories

AFL No.	Model	
S018683	CB-10 Replacement Blade for CT-60 Cleaver	
S017122	ARM-CT50-01 (Replacement Pads/Anvil)	

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	
S016815	RS01 - Thermal	
S016816	RS02 - Thermal (Bluetooth)	
S016817	RS03 - Thermal (Bluetooth and Cordless)	
S017098	SS03 - Mechanical (Hand Tool)	
S018327	SS05 Dual Fiber Coating Stripper	
S018613	AFL Precision Strip 125/900 Kit (Battery Powered)	
S018614	AFL Precision Strip Replacement 125/900 Blades	
S018615	AFL Precision Strip Replacement 900 µm Centralizer	
S018616	AFL Precision Strip Replacement Heater Cartridge	
S018617	AFL Precision Strip Push Out Tool	
S018618	AFL Precision Strip Cleaning Brush	

ACCESSORIES & CONSUMABLES

Consumables – Splice Sleeves

AFL No.	Model	Description		
S015915	60 mm (Single Splice)	QTY: 1000 box / 100 pack		
S015916	40 mm (Single Splice)	QTY: 1000 box / 100 pack		
S003027	40 mm (Ribbon –12 fiber)	QTY: 250 – 999		
		QTY: 1000 – 4999		
		QTY: 5000+		



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	
S017548	12 Fiber V-grooves (90R)	
S017103	Electrodes (90 series, 31/41S, 35/45S)	
S017524	Tripod Screw (90 series, 31/41S, 35/45S, CT60)	
S017512	90 Series Battery	
S014536	90 Series Power Cord	
S017513	90 Series AC Adapter	
S014390	RX0X, 31/41S, 35/45S Power Cord	
S018324	BTR-17 Battery Pack (35/45S)	
S018168	ADC-21 AC Adapter (35/45S)	
S018666	ADC-22 AC Adapter (100S)	
S018667	ACC-19 AC Power Cord (100S)	
S018668	USB-02 USB Cable	
S018669	ELCT2-16C Electrodes (100S)	
S018670	BTR-19 Battery (100S)	

Splicing Accessories

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

REVISION CHANGES HISTORY

January 15, 2026

Added New Products

AFL NO.	Description		Page
Core Alignment Fusion Splicers			
S018656	Fujikura 100S Fusion Splicer (machine only)		3
S018655	Fujikura 100S Standard Fusion Splicer Kit (with cleaver)		3
S018657	Fujikura 100S Fusion Splicer without Bluetooth (machine only)		3
S018660	Fujikura SpliceReady 100S Splicer Kit		3
Fiber Cleaver			
S018654	CT60		6
S018683	CB-10 Replacement Blade for CT-60 Cleaver		6
Splicer Kit Items			
S018666	ADC-22 AC Adapter		8
S018667	ACC-19 AC Power Cord		8
S018668	USB-02 USB Cable		8
S018669	ELCT2-16C Electrodes (100S)		8
S018670	BTR-19 Battery		8

Removed Products

AFL NO.	Description		
Core Alignment Fusion Splicers			
S017519	90S+ Fusion Splicer (machine only)		
S017521	90S+ Fusion Splicer Kit (with CT50 Cleaver)		
S017520	90S+ Fusion Splicer without Bluetooth (machine only)		
S018582	Fujikura SpliceReady 90S+ Splicer Kit		
Fiber Cleaver			
S017030	CT50 – Single Fiber or Ribbon (Bluetooth)		
S017076	CB-08 (Replacement Blade for CT50)		

July 15, 2025

Added New Products

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

May 1, 2025

Added New Products

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