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.

Features

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

Applications

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





In Work Trav



Wind Protector Open



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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	S017511
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	
Fujikura 90R Fusion Splicer without Bluetooth (machine only) includes: BTR-15 Battery, ADC-20 AC Adapter, ACC-14 AC Cord, ELCT2-16B	S017540
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	
	CO17F10
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	S018583
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	5010000
Fujikura SpliceReady 90R 200 µm Splicer Kit includes: Fujikura 90R Standard Kit (S017511), FP-05 40 mm (Ribbon-12) protection sleeve,	S018584
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)	
One-year Extended Warranty	S012996
Two-year Extended Warranty	S013000
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Recommended Products for the 90R

DESCRIPTION	AFL NO.
Cleavers and Strippers	
CT50 Cleaver	S017030
RS01 Thermal Stripper	S016815
RS02 Thermal Stripper	S016816
RS03 Thermal Stripper	S016817
Fiber Holders (pair)	
FH-70-2	S017114
FH-70-4	S017115
FH-70-6	S017116
FH-70-8	S017117
FH-70-10	S017118
FH-70-12	S017119
FH-70-12PC (pitch conversion holder for 200 µm loose fibers)	S017464
FH-70-12-200 (200 μm pitch ribbons)	S017681
FH-70-16	S017533
FH-70-16-200 (200 µm pitch for 16 fiber ribbon)	S018610
FH-70-16PC (Pitch conversion holder for 200 µm loose 16 fibers)	S018611
FH-70-250 (250 µm coated single fiber)	S017111
FH-70-900 (900 μm jacketed single fiber)	S017113
FH-60-LT900 (Loose buffer 900 µm fiber)	S015181
FUSEConnect [®] Accessories	
FH-FC-20 (900 µm within 2.0 mm sheathing) (each)	S014696
FH-FC-30 (900 µm within 3.0 mm sheathing) (pair)	S014695
FH-FC-900 (900 µm cable) (each)	S014697
CLAMP-FC-2000 (pair)	S014705
Batteries and Power Cords	
ADC-20 AC Adapter	S017513
BTR-15 Battery	S017512
DCC-11 splicer to ribbon stripper power cord	S013852
DCC-20 Power Cord	S017527
Connects ADC-20 to cigarette lighter socket	
DCC-21 Power Cord	S017528
Connects ADC-20 to power source via alligator clips	
ACC-14 AC Power Cord	S014536

DESCRIPTION	AFL NO.
Miscellaneous	
SS01 Single fiber stripper (1 hole)	S017099
ELCT2-16B Electrodes	S017103
Portable Tripod Workstation (see product profile for more detail)	S014773
ASW-02 Splicing Workstation (see product profile for more detail)	S010532
WT-09R Work Tray Right	S017515
WT-09L Work Tray Left	S017516
JP-09 Work Tray J-Plate	S017517
JP-10 J-Plate (Cooling tray attaches to splicer)	S017522
JP-10-FC J-Plate with Fiber Clamps	S017523
TS-03 Tripod Screw (90 Series)	S017524
ST-02 Fusion Splicer Strap	S017525
CLAMP-DC-12 (Drop Cable clamp on work tray)	S017550
FST-12 Fiber Separation Tool	S014012
FAT-04 Fiber Arrangement Tool	S010212
RT-02 Fiber Arrangement Tool	S017465
VG12-01 12 fiber V-groove	S017548
VG12-01-200 12 fiber V-groove (200 µm pitch ribbons)	S017680
VG04-01 4 fiber V-groove	S017551
VG08-01 Spare 8 fiber V-grooves	S017508
VG16-01 16 fiber V-groove	S017552
VG16-01-200 16 Fiber V-groove	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



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Specifications

PARAMETER		VALUE
Fiber Alignment Method		Self cladding alignment with melting surface
Fibor Count Can Po Spliced		tension Up to 16 fiber ribbon
Fiber Count Can Be Spliced	Fiber Type	Single mode optical fiber
Applicable Fiber	riber type	Multi mode optical fiber
	Cladding Dia.	Approx. 125 µm
Applicable Coating	Fiber Holder	Coating shape. : Refer to fiber holder options
	riber fiolder	Cleave length : 10 mm
Fiber Splice Performance		ITU-T G.652 : Avg. 0.05 dB
	Splice Loca	ITU-T G.651 : Avg. 0.02 dB ITU-T G.653 : Avg. 0.08 dB
	Splice Loss	ITU-T G.655 : Avg. 0.08 dB
riber splice i chormanee		ITU-T G.657 : Avg. 0.05 dB
	Culies Time	SM FAST mode : Avg. 14 to 15 sec.
	Splice Time	SM AUTO mode : Avg. 19 to 20 sec.
	Sleeve Type	Heat-shrinkable sleeve
Applicable Protection Sleeve	Sleeve Length	Max. 66 mm
	Sleeve Dia.	Max. 6.0 mm before shrinking
Cleave Lleat Deufeure	Lloot Tirre	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.
Fiber Tensile Test Force		Single 60 mm mode: Avg. 13 to 15 sec. Approx. 2.0 N
Electrode Life		Approx. 2.010 Approx. 1,500 splices
	Dimensions W	Approx.170 mm without projection
Physical Description	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
En incompanial Condition		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
	Capacity	Approx. 165 splice and heat cycles
Battery Pack	Temperature	Recharge : 0 to 30°C
		Storage : -20 to 30°C
	Battery Life Bochargo Timo	Approx. 500 recharge cycles
	Recharge Time LCD Monitor	Approx. 5 – 8 hours from empty TFT 5 inches with touch screen
Display	Magnification	Approx. 20X : 12 Ribbon to 60X : Single
Illumination	V-Grooves	LED lamp
	PC	USB2.0 Mini B type
Interface	External Led Lamp	USB2.0 A type, Approx. DC5V, 500 mA
	Ribbon Stripper	Mini DIN 6 pin, DC12V, Max. 1A
	Wireless	Bluetooth 4.1 LE
	Splice Mode	100 splice modes
Data Storage	Heat Mode Splice Result	30 heat modes 10,000 splices
	Splice Image	100 images
Screw Hole For Tripod	spilee intage	1/4-20 UNC
		Splice mode select by fiber type analysis
		Discharge power calibration
	Automatic Functions	Wind protector : open/close
Other Features	Automatic Functions	Sheath clamp : open
		Heater lid : open/close
	Defense Cuil	Heater clamp : open/close
	Reference Guide	Video and PDF file stored in splicer
	Electrode	Replaceable without tool

