Fujikura 100R Fusion Splicer



The Fujikura 100R mass fusion splicer introduces Intelligent Alignment Control to deliver more reliable, uniform splices by automatically correcting fiber placement, end-face gaps, and axis alignment across all fibers.

Intelligent Alignment Control in the 100R enhances splice reliability by automatically correcting improper fiber seating, minimizing end-face gap variation, and stabilizing fiber-axis alignment across all fibers. Adjustable control levels allow the system to balance precision and cycle time, ensuring the best splice results across broadband or hyperscale applications.

Auto Placement Correction automatically detects and corrects fibers that are improperly seated in the V-groove prior to fusion. By automatically lifting the clamp and adjusting the Z-stage as needed, the system ensures proper fiber placement, reducing splice variability, and minimizing manual intervention.

Gap Alignment Correction automatically reduces variation in endface gaps across fibers prior to fusion. By continuously adjusting alignment until the target range is met, the 100R improves splice uniformity and consistency while completing the correction in as little as one second.

Axis Offset Correction reduces fiber axis position offsets across all fibers prior to fusion. By performing controlled, automatic alignment adjustments, the 100R improves splice uniformity and consistency while applying corrections only as needed to maintain efficient cycle times.



With the Fujikura 100R, you can keep your splicer in the field longer thanks to the included, field-replaceable V-grooves. With the AFL Tote Solution installed, the 100R transit case securely integrates with Milwaukee's PACKOUT™ system, offering faster transport, stability, and time savings for contractors and technicians.

Put our 100R to the test by contacting us to see its capabilities first-hand, 1-800-235-3423.

Features

- Intelligent Alignment Controls for hands-free alignment Auto
- Placement Correction for proper fiber seating
- Gap Alignment Correction for uniform endface gaps
- Axis Offset Correction for consistent fiber alignment
- Cleaver tracking and upkeep with wireless communication
- Automated wind protector, tube heater and splice operation
- User replaceable V-grooves
- Graphical User Interface with 5.0" Touchscreen Multi-
- function transit case with integrated workstation



Applications

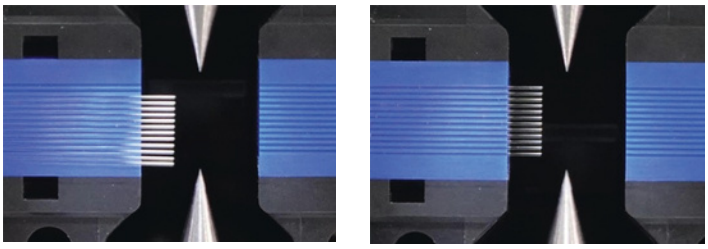
- Data Center cable installation
- High fiber count metro and campus networks
- Long-haul network installs and repairs
- Trunk cable repair with Splice-on MPOs
- Ribbon splicing high-density cables with 200 µm loose fiber

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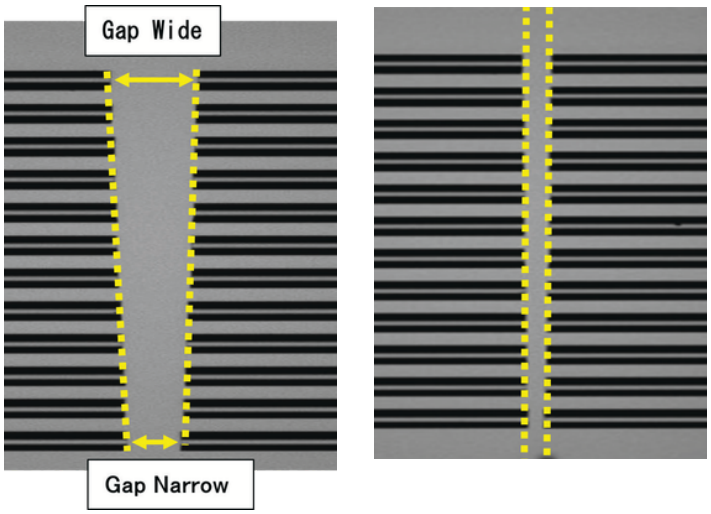
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Fujikura 100R Fusion Splicer

Intelligent Alignment Control Features



Auto Placement Correction
(before on left; after on right)



Gap Alignment Correction
(before on left; after on right)

Ordering Information

Description	AFL No.
Fujikura 100R SpliceReady Splicer Kit **Includes:** Fujikura 100RStandardKit(S018665), FP-0540mm protection sleeve, Splicer V-groove cleaning kit, AFL WFW wipes mini tub (90wipes), FCC2 fibercleaningfluid(3oz.),RT-02 Ribbonizing tool	S018713
Fujikura 100R with 200 µm Accessories SpliceReady Kit **Includes:** Fujikura 100R StandardKit(S018665), FP-0540 mm protection sleeve, VG12-02-200 200 µm V-groove, FH-80-12PC 200 to 250 µm Pitch Conversion Fiber Holder, FH-80-12-200fiber holders, RT-02 Ribbonizing tool, Splicer V-groove cleaning kit, FCC2 fiber cleaning fluid (3 oz.), AFL WFW wipes mini tub (90 wipes)	S018714
Fujikura 100R Fusion Splicer Kit with CT60 and RS03 **Includes:** BTR-19 Battery, ADC-22 AC Adapter, ACC-19 AC Cord, CT60 Cleaver, RS03 Stripper with internal BTR-12A battery, ADC-09A AC Adapter with ACC-09 cord, ELCT2-16C Spare Electrodes (pair), FH-80-12 Fiber Holders (pair), USB-02 Cable, Alcohol Dispenser, Quick Reference Guide, TS- 04A Splicer Tripod Screw, TS-04B Cleaver Tripod Screw, On-board Instructional Manual, CC-48 Transit Case, ST-02 Fusion Splicer Strap and Two-year Warranty	S018665
Fujikura 100R Fusion Splicer (machine only) **Includes:** BTR-19 Battery, ADC-22 AC Adapter, ACC-19 AC Cord, ELCT2-16C Spare Electrodes (pair), FH-80-12 Fiber Holders (pair), USB-02 Cable, Alcohol Dispenser, Quick Reference Guild, TS-04A Splicer Tripod Screw, TS-04B Cleaver Tripod Screw, On-board Instructional Manual, Work Tray, CC-48 Transit Case, and Two-year Warranty	S018710
Fujikura 100R Fusion Splicer Kit without Bluetooth with CT60 and RS01 **Includes:** BTR-19 Battery, ADC-22 AC Adapter, ACC-19 AC Cord, CT-60 Cleaver, RS01 Stripper, ADC-09A AC Adapter with ACC-09 cord, ELCT2-16C Spare Electrodes (pair), FH-80-12 Fiber Holders (pair), USB-02 Cable, Alcohol Dispenser, Quick Reference Guide, TS-04A Splicer Tripod Screw, TS-04B Cleaver Tripod Screw, On-board Instructional Manual, CC-48 Transit Case, ST-02 Fusion Splicer Strap and Two-year Warranty	S018712
Fujikura 100R Fusion Splicer without Bluetooth **Includes:** BTR-19 Battery, ADC-22 AC Adapter, ACC-19 AC Cord, ELCT2-16C Spare Electrodes (pair), FH-80-12 Fiber Holders (pair), USB-02 Cable, Alcohol Dispenser, Quick Reference Guide, TS-04A Splicer Tripod Screw, TS-04B Cleaver Tripod Screw, On-board Instructional Manual, CC-48 Transit Case, and Two-year Warranty	S018711
One-Year Extended Warranty	S012996
Two-Year Extended Warranty	S013000

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Fujikura 100R Fusion Splicer

Recommended Products for the 100R

Description	AFL No.
Cleavers andStrippers	S018654
CT-60 Cleaver	S016815
RS01 Thermal Stripper	S016816
RS02 Thermal Stripper	S016817
RS03 Thermal Stripper	
Fiber Holders and V-Grooves	S018726
FH-80-2 Fiber Holder	S018727
FH-80-4 Fiber Holder	S018728
FH-80-5 Fiber Holder	S018729
FH-80-6 Fiber Holder	S018730
FH-80-8 Fiber Holder	S018731
FH-80-9 Fiber Holder	S018732
FH-80-10 Fiber Holder	S018733
FH-80-12 Fiber Holder	S018734
FH-80-12-200 Fiber Holder	S018735
FH-80-12PC 200 to 250um Pitch Conversion Fiber	S018736
Holder FH-80-16 Fiber Holder	S018737
FH-80-16-200 Fiber Holder	S018738
FH-80-16PC 200 to 250um Pitch Conversion Fiber	S017111
Holder FH-70-250 (250 µm coated fiber)	S017113
FH-70-900 (900 µm jacketed fiber)	S017095
FH-70-160 (160 µm coated fiber)	S015181
FH-60-LT900 (Loose buffer 900 µm fiber)	S018739
VG16-02 16 Fiber/250 µm V-Groove	S018740
VG16-02-200 16 Fiber/200 µm V-Groove	S018741
VG12-02 12 Fiber/250 µm V-Groove	S018742
VG12-02-200 12 Fiber/200 µm V-Groove	S018743
VG08-02 8 Fiber/250 µm V-Groove	S018744
VG04-02 4 Fiber/250 µm V-Groove	
FUSEConnect® Accessories	S014696
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)	S014695 S014697 S014705
CLAMP-FC-2000 (pair)	

Description	AFL No.
BatteriesandPower Cords	S018666
ADC-22 ACAdapter	S018670
BTR-19 Battery	S013852
DCC-11 splicer to ribbon stripper power cord	S017527
DCC-20 Power Cord Connects ADC-20 to cigarette lighter socket	S017528
DCC-21 Power Cord Connects ADC-20 to power source via alligator clips	S018667 S017099
ACC-19 AC Power Cord	S018669
Miscellaneous	S014773
SS01 Single fiber stripper (1 hole)	S010532
ELCT2-16C Electrodes	S018674
Portable Splicing Worktray (see product profile for more detail)	S018673
ASW-02 Splicing Workstation (see product profile for more detail)	S018681
WT-11R Work Tray Right	S018675
WT-11L Work Tray Left	S018691
JP-12 Work Tray J-Plate (Splicer Mount)	S018677
JP-11 J-Plate (Cooling tray attaches to splicer)	S017525
TS-04B Cleaver Tripod Screw	S017550
TS-04A Splicer Tripod Screw (90 Series)	S014012
ST-02 Fusion Splicer Strap	S010212
CLAMP-DC-12 (Drop Cable clamp on work tray)	S017465
FST-12 Fiber Separation Tool	S008720
FAT-04 Fiber Arrangement Tool	S008622
RT-02 Fiber Arrangement Tool	S018672
FAA-03A Ribbon Forming Adhesive (4 oz. bottle)	S014397
FAA-03A Ribbon Forming Adhesive (0.5 liter bottle)	S017549
CC-48 Transit Case	S018625
Splicer V-groove Cleaning Kit	S018623
ST-03 Case and Work Tray Strap	
Mobile Splicing Workstation	
AFL Tote Solution - Cleat Installation Service	



Fujikura 100R Fusion Splicer Kit with CT60 and RS03 (S018665)

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Fujikura 100R Fusion Splicer

Specifications

Parameter		Value
Fiber Alignment Method		Self-Cladding alignment with Surface Melting Tension
Fiber Count Can Be Spliced	Fiber Type	Single and up to 16 Fiber Ribbon with Applicable V-groove
Applicable Fiber	Fiber Type	Single-mode Fiber
	Cladding Diameter	Multimode Fiber
		Approx. 125 µm
	Fiber Holder	Coating Shape: Refer to Options
Applicable Coating		Cleave Length: Approx. 10 mm
Fiber Splice Performance	Splice Loss	ITU-T G.652: Avg 0.05 db
		ITU-T G.651: Avg 0.02 db
		ITU-T G.653: Avg 0.08 db
		ITU-T G.655: Avg 0.08 db
		ITU-T G.657: Avg 0.08 db
	Splice Time	SM Fast Mode: Avg 16 to 18 Seconds
		SM Auto Mode: Avg 19 to 21 Seconds
Applicable Protection Sleeve	Sleeve Type	Heat Shrinkable Sleeve
	Sleeve Length	Max. 66 mm
	Sleeve Diameter	Max. 6.0 mm before Shrink
Sleeve Heat Performance	Heat Time	40 mm FP-05 Mode: Avg 33 to 40 Seconds
		40 mm FP-04T Fast Mode: Avg 19 to 26 seconds
Fiber Tensile Test Force		Single 60 mm Mode: Avg. 8 to 15 Seconds
Electrode Life		Approx. 2.0 N
Physical Description	Dimensions W	Approx. 1,500 Splices
	Dimensions D	157 mm
	Dimensions H	178 mm
	Weight	171 mm
	Temperature	2.6 kg including Battery
		Operate: -10 to +50°C
		Storage: -40 to +80°C
	Humidity	Operate: 0 to 95% RH non-condensing
		Storage: 0 to 95% RH non-condensing
	Altitude	Max. 3,700 m
Environmental Condition	Input	AC100 to 240V, 50/60Hz, Max. 1.5A
	Output	Approx. DC 12V, max. 7A
AC Adapter	Type	Rechargeable Lithium Ion
	Output	Approximately DC 12 V, Max 5A
	Capacity	Approximately 165 Splices with Heat Shrink
	Temperature	Operate: -10 to +50°C
		Recharge: 0 to +40°C
Battery Pack		Storage < One (1) Year: -20 to +20°C
		Storage < Three (3) Months: -20 to +40°C
		Storage < One (1) Month: -20 to +50°C
	Recharge Time	≤ Six (6) Hours from Empty
	Battery Life	Approximately 500 Recharge Cycles
Display	LCD Monitor	TFT 4.95 inch Tough Screen
	Magnification	Approx. 30x: 12-Fiber Ribbon
		Approx. 90x: Single Fiber
Illumination		LED Lamp
Data Storage	V-Grooves	100 splice modes
	Splice Mode	30 heat modes
	Heat Mode	20,000 splices
	Splice Result	100 images
	Splice Image	

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Specifications (cont.)

Parameter		Value
Other Features	Automatic Functions	Splice-mode Select by Fiber Count Analysis
		Fusion Power Calibration
		Fully Automatic Cleaver Blade Management
		Wind Protector: Open and Close
		Clamp: Auto Clamping Force Adjustment
		Z-Holder Base: Auto Placement Correction
		Z-Holder Base: Gap Alignment Correction
		Splice Start
		Heater Lid: Open and Close
		Heater Clamp: Open and Close
		Heater Start
	Reference Guide	Video and PDF Store on Splicer
	Electrode	Replaceable without Tool
	Software for PC	Splicer Update via Internet
		Parameter Upload and Download
		Operating Splicer with PC
	GPS	Splice Image Download to PC
		Splice Location Recorded to Memory
	Screw Hole for Tripod	GEO Fencing
		1/4-20 UNC

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