

Fujikura 100R Fusion Splicer

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

Intelligent Alignment Control in the 100R enhances splice reliability by automatically correcting improper fibre seating, minimizing end-face gap variation, and stabilizing fibre-axis alignment across all fibres. 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 fibres 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 fibre placement, reducing splice variability, and minimizing manual intervention.

Gap Alignment Correction automatically reduces variation in endface gaps across fibres 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 fibre axis position offsets across all fibres 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.

Features

- Intelligent Alignment Controls for hands-free alignment
- Auto Placement Correction for proper fibre seating
- Gap Alignment Correction for uniform endface gaps
- Axis Offset Correction for consistent fibre 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

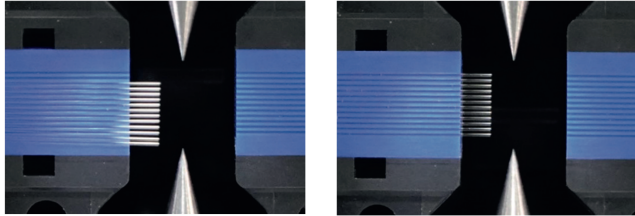
Applications

- Data Center cable installation
- High fibre 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 fibre

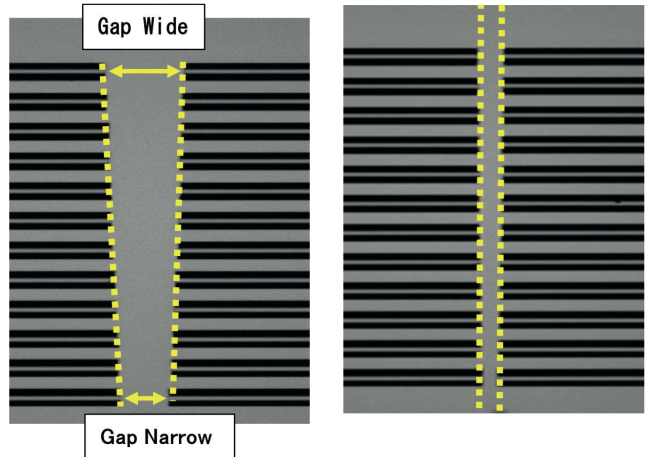


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Intelligent Alignment Control Features



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 Fusion Splicer Kit with CT60 and RS03 Includes: BTR-19 Battery, ADC-22 AC Adapter, AC Power Cord, CT60 Cleaver, RS03 Stripper with internal BTR-12A battery, ADC-09A AC Adapter with AC Power Cord, ELCT2-16C Spare Electrodes (pair) with spare V-Grooves (VG12-02), FH-80-12 Fibre 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, Three-year Warranty, ST-02 Fusion Splicer Strap, Cotton Tips, Safety Glasses, Sharps Container.	FUJ100R12-CT60-RS03
Fujikura 100R Fusion Splicer Kit with CT60 and RS02 Includes: BTR-19 Battery, ADC-22 AC Adapter, AC Power Cord, CT60 Cleaver, RS02 Stripper, DCC-11 Splicer to Stripper Power Cord, ELCT2-16C Spare Electrodes (pair) with spare V-Grooves (VG12-02), FH-80-12 Fibre 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, Three-year Warranty, ST-02 Fusion Splicer Strap, Cotton Tips, Safety Glasses, Sharps Container.	FUJ100R12-CT60-RS02
Fujikura 100R Fusion Splicer Kit with CT60 and RS01 (Radio Silent - No Bluetooth) Includes: BTR-19 Battery, ADC-22 AC Adapter, AC Power Cord, CT60 Cleaver, RS01 Stripper, DCC-11 Splicer to Stripper Power Cord, ELCT2-16C Spare Electrodes (pair) with spare V-Grooves (VG12-02), FH-80-12 Fibre 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, Three-year Warranty, ST-02 Fusion Splicer Strap, Cotton Tips, Safety Glasses, Sharps Container.	FUJ100R12-CT60-RS01-NW

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Recommended Products for the 100R

DESCRIPTION	AFL NO.
Cleavers and Strippers	
CT60 Cleaver	S018654
RS01 Thermal Stripper	S016815
RS02 Thermal Stripper	S016816
RS03 Thermal Stripper	S016817
Fibre Holders and V-Grooves	
FH-80-2 Fibre Holder	S018726
FH-80-4 Fibre Holder	S018727
FH-80-5 Fibre Holder	S018728
FH-80-6 Fibre Holder	S018729
FH-80-8 Fibre Holder	S018730
FH-80-9 Fibre Holder	S018731
FH-80-10 Fibre Holder	S018732
FH-80-12 Fibre Holder	S018733
FH-80-12-200 Fibre Holder	S018734
FH-80-12PC 200 to 250 µm Pitch Conversion Fibre Holder	S018735
FH-80-16 Fibre Holder	S018736
FH-80-16-200 Fibre Holder	S018737
FH-80-16PC 200 to 250 µm Pitch Conversion Fibre Holder	S018738
FH-70-250 (250 µm coated fibre)	S017111
FH-70-900 (900 µm jacketed fibre)	S017113
FH-70-160 (160 µm coated fibre)	S017095
FH-60-LT900 (Loose buffer 900 µm fibre)	S015181
VG16-02 16 Fibre/250 µm V-Groove	S018739
VG16-02-200 16 Fibre/200 µm V-Groove	S018740
VG12-02 12 Fibre/250 µm V-Groove	S018741
VG12-02-200 12 Fibre/200 µm V-Groove	S018742
VG08-02 8 Fibre/250 µm V-Groove	S018743
VG04-02 4 Fibre/250 µm V-Groove	S018744
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

DESCRIPTION	AFL NO.
Batteries and Power Cords	
ADC-22 AC Adapter	S018666
BTR-19 Battery	S018670
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	
Miscellaneous	
SS01 Single fibre stripper (1 hole)	S017099
ELCT2-16C Electrodes	S018669
WT-11R Work Tray Right	S018674
WT-11L Work Tray Left	S018673
JP-12 Work Tray J-Plate (Splicer Mount)	S018681
JP-11 J-Plate (Cooling tray attaches to splicer)	S018675
TS-04B Cleaver Tripod Screw	S018691
TS-04A Splicer Tripod Screw (90 Series)	S018677
ST-02 Fusion Splicer Strap	S017525
CLAMP-DC-12 (Drop Cable clamp on work tray)	S017550
FST-12 Fibre Separation Tool	S014012
RT-02 Fibre Arrangement Tool	S017465*
CC-48 Transit Case	S018672
Splicer V-groove Cleaning Kit	S014397
ST-03 Case and Work Tray Strap	S017549



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

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Specifications

PARAMETER		VALUE
Fibre Alignment Method		Self-Cladding alignment with Surface Melting Tension
Fibre Count Can Be Spliced		Single and up to 16 Fibre Ribbon with Applicable V-groove
Applicable Fibre	Fibre type	Singlemode Fibre
	Cladding Dia.	Multi-mode Fibre
Applicable Coating	Fibre Holder	Approx.125 µm
		Coating Shape.: Refer to Options
Fibre Splice Performance	Splice Loss	Cleave Length: Approx. 10 mm
		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
	Splice Time	ITU-T G.657 : Avg. 0.08 dB
SM FAST Mode: Avg. 16 to 18 Seconds		
Applicable Protection Sleeve	SM AUTO Mode: Avg. 19 to 21 Seconds	
	Sleeve Type	Heat-shrinkable sleeve
	Sleeve Length	Max. 66 mm
Sleeve Heat Performance	Sleeve Dia.	Max. 6.0 mm before shrinking
		40 mm FP-05 Mode: Avg 33 to 40 Seconds
		40 mm FP-04T Fast Mode: Avg 19 to 26 Seconds
		Single 60 mm Mode: Avg. 8 to 15 Seconds
Fibre Tensile Test Force		Heat Time
Electrode Life		40 mm FP-04T Fast Mode: Avg 19 to 26 Seconds
Physical Description	Heat Time	Single 60 mm Mode: Avg. 8 to 15 Seconds
		Fibre Tensile Test Force
		Approx. 2.0 N
		Electrode Life
Environmental Condition	Input	Approx. 1,500 Splices
		Dimensions W
		Dimensions D
		Dimensions H
AC Adaptor	Type	Weight
		Temperature
		Humidity
		Altitude
Battery Pack	Output	Operate: -10 to 50°C
		Storage: -40 to 80°C
	Capacity	Operate: 0 to 95% RH non-condensing
		Storage: 0 to 95% RH non-condensing
	Temperature	Max. 3,700 m
		AC 100 to 240 V, 50/60 Hz, Max. 1.5A
		Approx. DC 12V, Max. 7A
		Approx. 165 Splices with Heat Shrink
Recharge Time	Operate: -10 to +50° C	
	Recharge: 0 to +40° C	
	Storage < One (1) year: -20 to +20°C	
	Storage < Three (3) Months: -20 to +40°C	
Display	LCD Monitor	Storage < One (1) Month: -20 to +50°
		Recharge Time
		Battery Life
Illumination	Magnification	Approximately 500 Recharge Cycles
		TFT 4.95 inch with Touch Screen
Interface	V-Grooves	Approx. 30x: 12-Fibre Ribbon
		Approx. 90x: Single Fibre
		LED lamp
		PC
Data Storage	External LED Lamp	USB2.0 Type C (USB PD compatible)
		External LED Lamp
		Ribbon Stripper
		Wireless
Data Storage	Bluetooth 5.2 LE	USB2.0 A type, Approx. DC5V, 500 mA
		Ribbon Stripper
		Mini DIN 6 pin, DC12V, Max. 1A
		Wireless
Data Storage	Splice Mode	Bluetooth 5.2 LE
		Heat Mode
		Splice Result
		Splice Image

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Specifications

Other Features	Automatic Functions	Splice-mode Select by Fibre 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 Stored in Splicer
	Electrode	Replaceable without Tool
	Sheath Clamp	Splicer Update via Internet
		Parameter Upload and Download
		Operating Splicer with PC
		Splice Image Download to PC
	GPS	Splice Location Recorded to Memory
		GEO Fencing
	Screw Hole for Tripod	1/4-20 UNC