

## Fujikura 90R Fusion Splicer



 Bluetooth™



In Work Tray



Wind Protector Open

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 fibre counts. As a result, fibre counts being utilised in enterprise data centres, campus, and metro networks have grown enough to make single fibre splicing too costly and timely. High density cabling made possible by Spider Web Ribbon® (SWR®) and others like it are spurring ribbon splicing activity in places that have traditionally used loose fibre. 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 fibre preparation steps. New to the 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.

### 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

### Applications

- Data Centre cable installation
- High fibre 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 fibre

## Fujikura 90R Fusion Splicer

### Ordering Information

DESCRIPTION	PART NUMBER
<b>90R Fusion Splicer (with CT50 Cleaver and RS02 Thermal Stripper)</b> <b>Includes:</b> BTR-15 Battery, CT50 Cleaver, RS02 Stripper, ADC-20 AC Adapter, ACC-17 AC Cord, ELCT2-16B Spare Electrodes (pair) with spare V-Grooves (VG12-01), FH-70-12 Fibre Holder, USB Cable, Alcohol Dispenser, Splicer Carrying Strap, Quick Reference Guide, TS-03 Tripod Screw, Video Instruction Manual, Work Tray, Cotton Tips, Safety Glasses, Sharps Container and CC-39 Transit Case with Carrying Strap	FUJ90R12-CT50-RS02
<b>90R Fusion Splicer Kit (with CT50 Cleaver and RS03 Thermal Stripper)</b> <b>Includes:</b> BTR-15 Battery, CT50 Cleaver, RS03 Stripper, Battery, SS03 Single Fibre Stripper, ADC-20 AC Adapter, ACC-17 AC Cord, ELCT2-16B Spare Electrodes (pair) with spare V-Grooves (VG12-01), FH-70-12 Fibre Holder, USB Cable, Alcohol Dispenser, Splicer Carrying Strap, Quick Reference Guide, TS-03 Tripod Screw, Cotton Tips, Safety Glasses, Sharps Container, Video Instruction Manual and CC-39 Transit Case with Carrying Strap	FUJ90R12-CT50-RS03
<b>90R Fusion Splicer Kit Without Bluetooth (with CT50 Cleaver and RS01 Thermal Stripper)</b> <b>Includes:</b> BTR-15 Battery, CT50 Cleaver, RS01 Stripper, SS03 Single Fibre Stripper, ADC-20 AC Adapter, ACC-17AC Cord, ELCT2-16B Spare Electrodes (pair) with spare V-Grooves (VG12-01), FH-70-12 Fibre Holder, USB Cable, Alcohol Dispenser, Screwdriver, Splicer Carrying Strap, Quick Reference Guide, TS-03 Tripod Screw, Cotton Tips, Safety Glasses, Sharps Container, Video Instruction Manual and CC-39 Transit Case with Carrying Strap	FUJ90R12-CT50-RS01

### Recommended Products for the 90R

DESCRIPTION	PART NO.
<b>Cleavers and Strippers</b>	
CT50 Cleaver	S017030
RS01 Thermal Stripper (no bluetooth)	FUJRS01
RS02 Thermal Stripper	FUJRS02
RS03 Thermal Stripper (built-in battery)	FUJRS03
<b>Fibre Holders (pair)</b>	
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 fibres)	S017464
FH-70-250 (250 µm coated single fibre)	S017111
FH-70-900 (900 µm jacketed single fibre)	S017113
FH-60-LT900	S015181
<b>FUSEConnect® Accessories</b>	
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
<b>Batteries and Power Cords</b>	
ADC-20 AC Adapter	S017513
BTR-15 Battery	S017512
DCC-20 Power Cord (connects AC Adapter to cigarette lighter socket)	S017527
DCC-21 Power Cord (connects AC Adapter to power source via alligator clips)	S017528
DCA-03 DC Adapter (Connect AC Adaptor without battery)	S017526

DESCRIPTION	PART NO.
<b>Miscellaneous</b>	
SS03 Single fibre stripper (3 hole)	S017098
SS01 Single fibre stripper (1 hole)	S017099
ELCT2-16B Electrodes	S017103
Portable Tripod Workstation (see product profile for more detail)	S014773
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 Fibre Clamps	S017523
TS-03 Tripod Screw (90 Series)	S017524
ST-02 Fusion Splicer Strap	S017525
CLAMP-DC-12 (Drop cable clamp for work tray)	S017550
FST-12 Fibre Separation Tool	S014012
FAT-04 Fibre Arrangement Tool	S010212
RT-02 Fibre Arrangement Tool	S017465
VG12-01 12 fibre V-groove	S017548
VG04-01 4 fibre V-groove	S017551
VG16-01 16 fibre V-groove	S017552
FAA-03A Ribbon Forming Adhesive (130 ml bottle)	S008720
FAA-03A Ribbon Forming Adhesive (500 ml bottle)	S008622
CC39 Transit Case	S017514
Splicer V-Groove Cleaning Kit	S014397



#### Fibre Arrangement Tool

- Features an easy-to-use fibre arrangement method utilising linear travel
- Includes a spare paste applicator



#### V-Groove Cleaning Kit

- Removes environmental contamination from the v-groove of the splicer
- Maintains performance and ensures fibre alignment

## Specifications

PARAMETER		VALUE
Fibre Alignment Method		Self cladding alignment with melting surface tension
Fibre Count Can Be Spliced		Up to 12 fibre ribbon
Applicable Fibre	Fibre type	Singlemode optical fibre Multi-mode optical fibre
	Cladding Dia.	Approx. 125 µm
Applicable Coating	Sheath Clamp	Coating shape. : Refer to options
		Cleave length : 10mm
Fibre 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. 0.05 dB
	Splice Time	SM FAST mode : Avg. 14 to 15 sec SM AUTO mode : Avg. 19 to 20 sec
Applicable Protection Sleeve	Sleeve Type	Heat-shrinkable sleeve
	Sleeve Length	Max. 66 mm
	Sleeve Dia.	Max. 6.0 mm before shrinking
Sleeve Heat Performance	Heat Time	40 mm FP-05 mode : Avg. 38 to 40 sec
		40 mm FP-04T mode : Avg. 17 to 19 sec
		Single 40 mm mode: Avg. 14 to 16 sec
		Single 60 mm mode: Avg. 13 to 15 sec
Fibre Tensile Test Force		Approx. 2.0 N
Electrode Life		Approx. 1,500 splices
Physical Description	Dimensions W	Approx. 170 mm without projection
	Dimensions D	Approx. 173 mm without projection
	Dimensions H	Approx. 150 mm without projection
	Weight	Approx. 2.6 kg including battery
Environmental Condition	Temperature	Operate: -10 to 50 degree C Storage: -40 to 80 degree C
		Humidity
	Altitude	Max. 3,700 m
Ac Adaptor	Input	AC100 to 240 V, 50/60 Hz, Max. 1.5A
Battery Pack	Type	Rechargeable Lithium-ion
	Output	Approx. DC14.4V / 6,380 mAh
	Capacity	Approx. 165 splice and heat cycles
	Temperature	Recharge: 0 to 40 degree C Storage: -20 to 30 degree C
	Battery Life	Approx. 500 recharge cycles
Display	LCD Monitor	TFT 5 inches with touchscreen
	Magnification	Approx. 20X : 12 Ribbon to 60X : Single
Illumination	V-Grooves	LED lamp
Interface	PC	USB2.0 Mini B type
	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
Data Storage	Splice Mode	100 splice modes
	Heat Mode	30 heat modes
	Splice Result	20,000 splices
	Splice Image	100 images
Screw Hole for Tripod		1/4-20 UNC
Other Features	Automatic Functions	Slice mode select by fibre type analysis
		Discharge power calibration
		Wind protector: open/close
		Sheath clamp: open
		Heater lid: open/close
	Heater clamp: open/close	
Reference Guide	Video and PDF file stored in splicer	
Electrode		Replaceable without tool