

# Mass Fusion Splicer

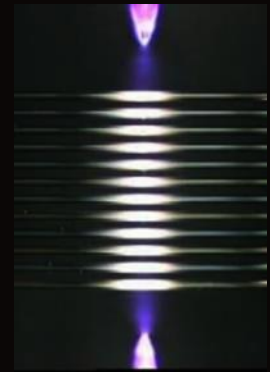
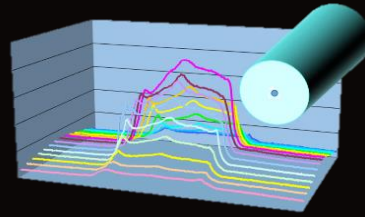
## 90R16

*Designed to keep you going*



# Mass Fusion Technology

The 90R16 mass fusion splicer has a wide heating area for up to 16 fibers. The wide electrode gap melts the fibers uniformly and has real-time arc discharge control by analyzing the arc's brightness intensity. The 90R16 does not have active core alignment mechanisms, however, during the discharge, fiber surface tension effects minimize preexisting offsets.



Analyzing arc power by observing the brightness intensity

## Advanced Innovation

### Replaceable V groove

The 90R16 mass fusion splicer includes a spare set of 16 fiber V-grooves with electrodes installed and ready to splice as part of the standard package. These spare V-grooves are field replaceable, so your downtime is minimized.

**Glass deposition on Electrode**

**Glass deposition on V-groove**

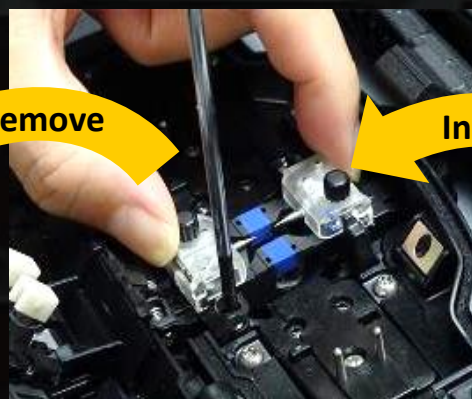
**Cause of Large Fiber Offset**

| No. | Gap [μm] | Offset [μm] | Cleave L | Cleave R |
|-----|----------|-------------|----------|----------|
| 1   | 49       | 0.9         | 0.1°     | 0.2°     |
| 2   | 44       | 5.0         | 0.9°     | 0.6°     |
| 3   | 47       | 1.3         | 0.6°     | 0.1°     |
| 4   | 40       | 5.2         | 0.7°     | 0.6°     |
| 5   | 38       | 5.5         | 0.8°     | 0.5°     |
| 6   | 48       | 1.2         | 0.7°     | 0.8°     |
| 7   | 57       | 1.2         | 0.1°     | 0.7°     |
| 8   | 47       | 0.9         | 0.8°     | 0.7°     |
| 9   | 51       | 1.4         | 0.6°     | 0.1°     |
| 10  | 61       | 0.9         | 0.9°     | 0.1°     |
| 11  | 68       | 0.8         | 0.9°     | 0.4°     |
| 12  | 67       | 0.7         | 0.5°     | 0.3°     |
| 13  | 73       | 1.5         | 0.9°     | 0.1°     |
| 14  | 83       | 1.2         | 0.7°     | 0.2°     |
| 15  | 82       | 1.5         | 0.1°     | 0.6°     |
| 16  | 57       | 1.5         | 0.9°     | 0.4°     |

**Glass deposited V-groove and electrodes**

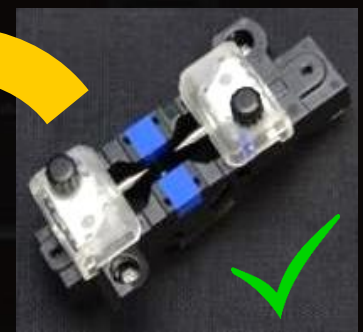


**Remove**



**Install**

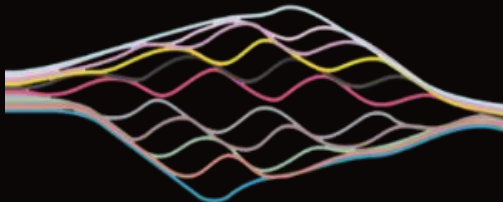
**Spare V-groove with stabilized electrodes**



# Universal Features

## 1. Universal Fiber Holder

The FH-70-16 fiber holder is compatible with many types of 16 fiber ribbon, such as 0.3mm or 0.4mm thick encapsulated ribbons and 200 $\mu$ m or 250 $\mu$ m coated Spider Web Ribbon (SWR). The 250  $\mu$ m pitch V-grooves in the FH-70-16 fiber holder simplify SWR loading and ribbon preparation.



SWR



FH-70-16

250 $\mu$ m coated SWR

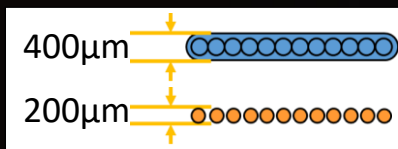


200 $\mu$ m coated SWR



## 2. Universal Ribbon Stripper

The RS series ribbon strippers are compatible with 200  $\mu$ m to 400 $\mu$ m coated fibers without replacing the stripper blades.



Available thickness range



RS03

## 3. Universal Tube Heater

The 90R16 mass fusion splicer can accommodate a max 6.0mm diameter heat sleeve before shrinking. As a result, it supports a wide range of protection sleeve sizes.





# User Friendly

## 1. Automated Functionality

The automated wind protector and heater clamps support the operator in completing the entire splicing process with minimal manual steps.



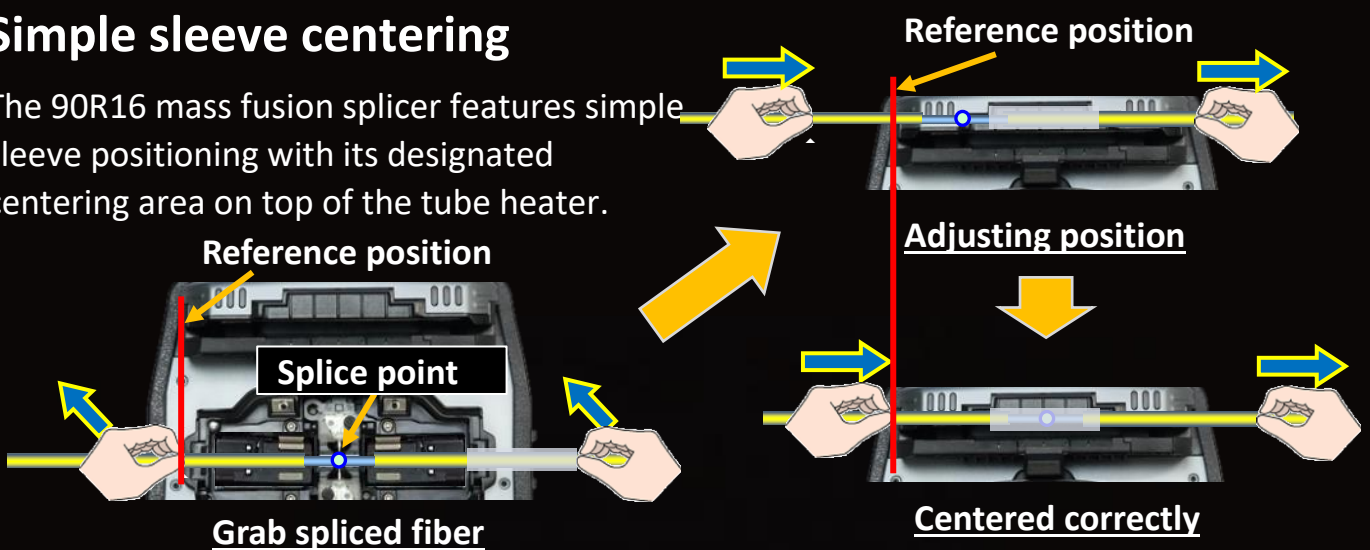
Automated open-close Wind protector



Automated Tube heater clamp

## 2. Simple sleeve centering

The 90R16 mass fusion splicer features simple sleeve positioning with its designated centering area on top of the tube heater.



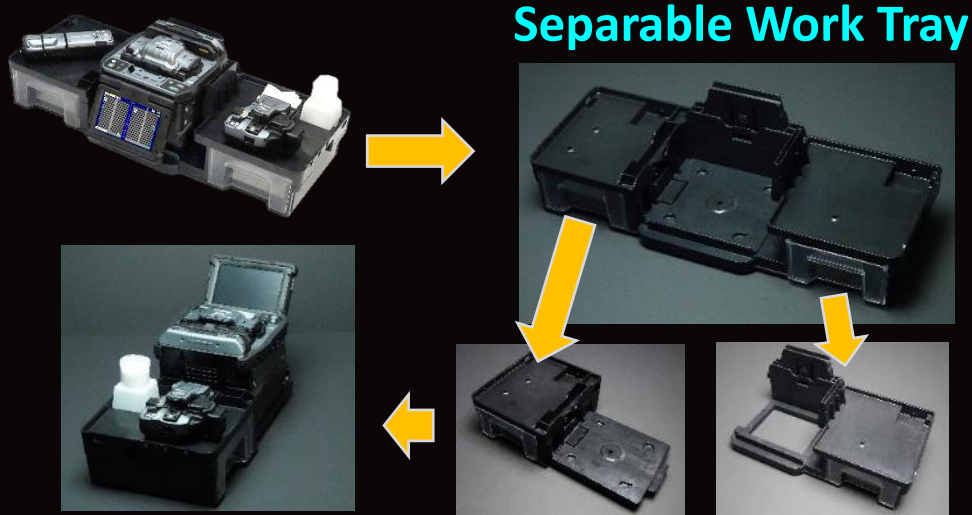
## 3. Carrying Case

There are multiple ways to utilize the 90R16 carrying case. The 90R16 is ready to use just by opening the case, but it is also possible to use the 90R16 on top of the carrying case or only with the work tray depending on the work environment.



## 4. Work Tray

The newly designed work tray has many functions. There are two drawers for storage, and the drawers are large enough to store tools or battery packs. Also, the work tray can be divided in two, so it is configurable to fit your work space.



**Plenty of space in carrying case**



Cleaver & Stripper



Battery packs



Large storage space under work tray

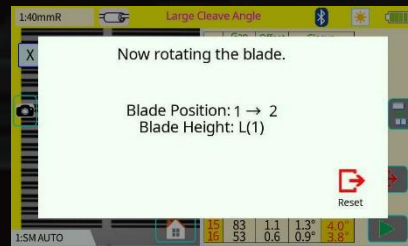
# Active Blade Management Technology

## 1. Automatic Blade Rotation

The 90R16 fusion splicer and CT50 fiber cleaver are enabled with wireless data connectivity. This capability allows automatic cleaver **blade** rotation when the splicer judges the blade is worn. Also, the 90R16 fusion splicer can connect to two CT50s and RS03 simultaneously.



| No. | Gap (μm) | Offset (μm) | Cleave |      |
|-----|----------|-------------|--------|------|
|     |          |             | L      | R    |
| 1   | 51       | 0.4         | 1.1°   | 1.0° |
| 2   | 45       | 2.3         | 1.3°   | 0.6° |
| 3   | 49       | 0.5         | 1.8°   | 0.2° |
| 4   | 41       | 0.7         | 1.6°   | 0.5° |
| 5   | 39       | 1.1         | 1.1°   | 1.3° |
| 6   | 50       | 1.1         | 1.7°   | 0.8° |
| 7   | 58       | 0.8         | 1.9°   | 1.6° |
| 8   | 49       | 1.4         | 0.5°   | 0.7° |
| 9   | 52       | 0.7         | 0.5°   | 0.8° |
| 10  | 62       | 0.8         | 1.9°   | 0.1° |
| 11  | 63       | 1.0         | 1.6°   | 0.6° |
| 12  | 68       | 1.7         | 1.6°   | 1.6° |
| 13  | 75       | 1.9         | 3.5°   | 1.3° |
| 14  | 84       | 0.8         | 0.7°   | 1.9° |
| 15  | 83       | 1.1         | 1.3°   | 4.0° |
| 16  | 53       | 0.6         | 0.9°   | 3.8° |

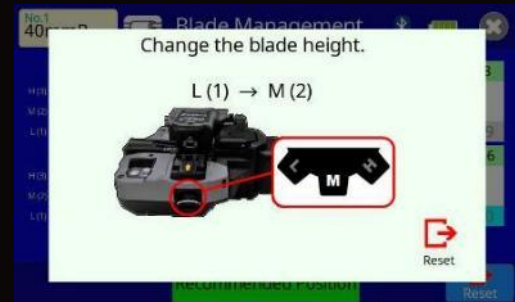


## 2. Blade Life Management

The 90R16 fusion splicer displays the remaining blade life and informs the user when a blade height change, position change, or new blade is required.

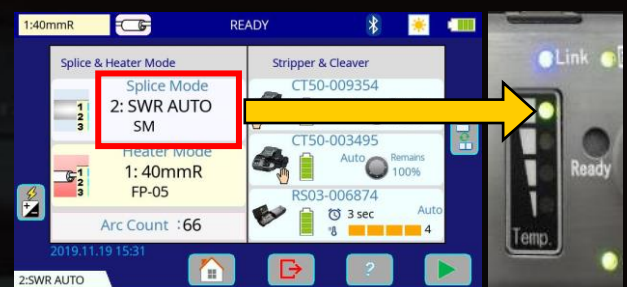
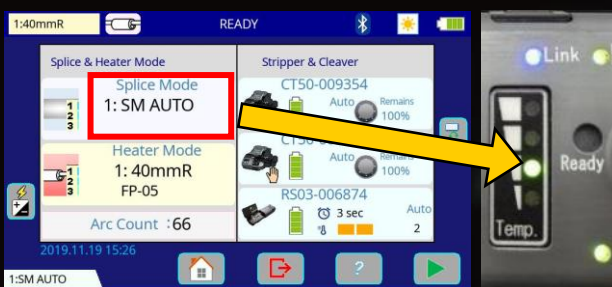
| No.1<br>40mmR |      | Blade Management |       |       |       |       |       |       |  |
|---------------|------|------------------|-------|-------|-------|-------|-------|-------|--|
|               | No.1 | No.2             | No.3  | No.4  | No.5  | No.6  | No.7  | No.8  |  |
| H(3)          | 0    | 0                | 0     | 0     | 0     | 0     | 0     | 0     |  |
| M(2)          | 0    | 0                | 0     | 0     | 0     | 0     | 0     | 0     |  |
| L(1)          | 1014 | 1041             | 1175  | 1167  | 1522  | 1134  | 1530  | 1439  |  |
|               | No.9 | No.10            | No.11 | No.12 | No.13 | No.14 | No.15 | No.16 |  |
| H(3)          | 0    | 0                | 0     | 0     | 0     | 0     | 0     | 0     |  |
| M(2)          | 0    | 0                | 0     | 0     | 0     | 0     | 0     | 0     |  |
| L(1)          | 1185 | 1218             | 1025  | 1407  | 1338  | 1484  | 1259  | 1060  |  |

Blade Height : L(1)  
Recommended Position  
Reset



## 3. Stripping Condition Control

When the user changes the splice mode, e.g. from 16 fiber ribbon splice mode to SWR fiber splice mode, the ribbon stripper RS03 automatically changes its heating temperature and time with a wireless command from the splicer.



Heat temperature changes in accordance with Splice mode



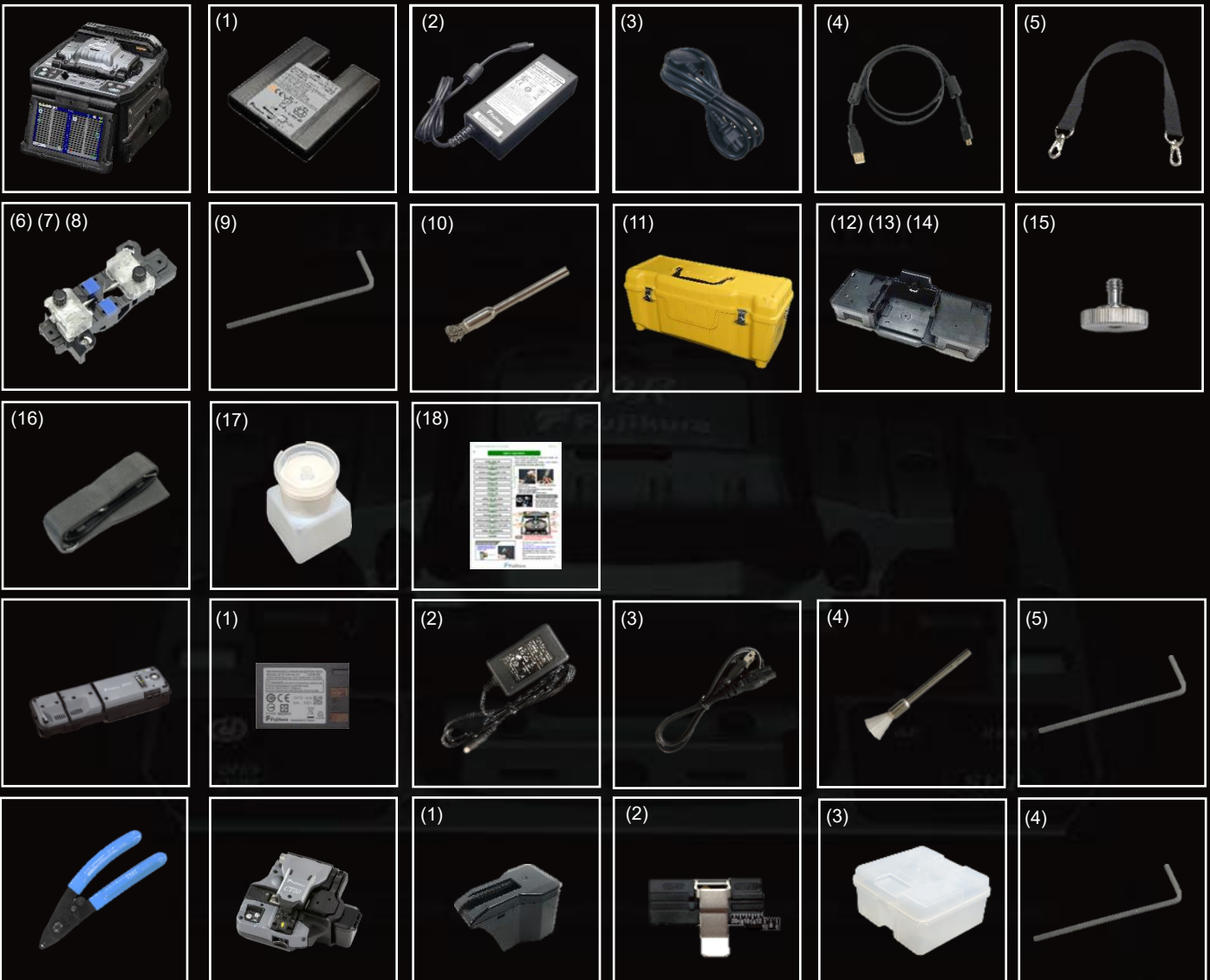
# Standard Package

## 90R16 Standard package

| Item                               | Model                         | Qty    |
|------------------------------------|-------------------------------|--------|
| Mass Fusion Splicer                | 90R16                         | 1 pc   |
| (1) Battery Pack *                 | BTR-15                        | 1 pc   |
| (2) AC Adapter                     | ADC-20                        | 1 pc   |
| (3) AC Power Cord                  | ACC-14, 15, 16, 17 or 18      | 1 pc   |
| (4) USB Cable                      | USB-01                        | 1 pc   |
| (5) Fusion Splicer Strap           | ST-02                         | 1 pc   |
| (6) Electrodes (on spare V-groove) | ELCT2-16B                     | 2 pair |
| (7) 16 fiber V-groove (spare)      | VG16-01, 250 to 255µm spacing | 1 pc   |
| (8) 12 fiber V-groove (spare)      | VG12-01, 250 to 255µm spacing | 1 pc   |
| (9) Hexagonal Wrench               | HEX-01                        | 1 pc   |
| (10) V-groove Cleaning Brush       | VCB-01                        | 1 pc   |
| (11) Carrying Case                 | CC-39                         | 1 pc   |
| (12) Work Tray Left                | WT-09L                        | 1 pc   |
| (13) Work Tray Right               | WT-09R                        | 1 pc   |
| (14) Work Tray J-Plate             | JP-09                         | 1 pc   |
| (15) Tripod Screw                  | TS-03                         | 2 pcs  |
| (16) Carrying Case Strap           | ST-03                         | 1 pc   |
| (17) Alcohol Dispenser             | AP-02                         | 1 pc   |
| (18) Quick Reference Guide         | QRG-03-E, C or J              | 1 pc   |
| Ribbon Fiber Stripper              | RS03                          | 1 pc   |
| (1) Battery Pack *                 | BTR-12A                       | 1 pc   |
| (2) AC Adapter                     | ADC-09A                       | 1 pc   |
| (3) AC Power Cord                  | ACC-08, 09, 10, 11 or 12      | 1 pc   |
| (4) Blade Cleaning Brush           | BRS-02                        | 1 pc   |
| (5) Hexagonal Wrench               | HEX-01                        | 1 pc   |
| Single Fiber Stripper              | SS03 or SS01                  | 1 pc   |
| Optical Fiber Cleaver              | CT50                          | 1 pc   |
| (1) Fiber Scrap Collector          | FDB-05                        | 1 pc   |
| (2) Fiber Setting Plate            | AD-10-M24                     | 1 pc   |
| (3) Case                           | CC-37                         | 1 pc   |
| (4) Hexagonal Wrench               | HEX-01                        | 1 pc   |



\* Please follow IATA regulation when shipping the battery by air.



# Specifications



## 90R16 Specifications

| Item                         |                           | Specification  |
|------------------------------|---------------------------|--|
| Fiber alignment method       |                           | Self cladding alignment with melting surface tension                       |
| Fiber count can be spliced   |                           | Up to 16 fiber ribbon  |
| Applicable fiber             | Fiber type                | Single mode optical fiber<br>Multi mode optical fiber                      |
|                              | Cladding dia.             | Approx. 125µm  |
| Applicable coating           | Fiber holder              | Coating shape : Refer to options   |
|                              |                           | Cleave length : 10mm   |
| Fiber splice performance     | Splice loss *1            | ITU-T G.652 : Avg. 0.05dB  |
|                              |                           | ITU-T G.651 : Avg. 0.02dB  |
|                              |                           | ITU-T G.653 : Avg. 0.08dB  |
|                              |                           | ITU-T G.655 : Avg. 0.08dB  |
|                              |                           | ITU-T G.657 : Avg. 0.05dB  |
|                              | Splice time *2            | SM FAST mode : Avg. 14 to 15sec.<br>SM AUTO mode : Avg. 19 to 20sec.       |
| Applicable protection sleeve | Sleeve type               | Heat shrinkable sleeve   |
|                              | Sleeve length             | Max. 66mm  |
|                              | Sleeve dia.               | Max. 6.0mm before shrinking  |
| Sleeve heat performance      | Heat time *3              | 40mm FP-05 mode : Avg. 38 to 40sec.  |
|                              |                           | 40mm FP-04T mode : Avg. 17 to 19sec.                                       |
|                              |                           | Single 60mm mode: Avg. 13 to 15sec.  |
| Fiber tensile test force     |                           | Approx. 2.0N   |
| Electrode life *4            |                           | Approx. 800 splices  |
| Physical description         | Dimensions W              | Approx. 170mm without projection   |
|                              | Dimensions D              | Approx. 173mm without projection   |
|                              | Dimensions H              | Approx. 150mm without projection   |
|                              | Weight                    | Approx. 2.6kg including battery  |
| Environmental condition      | Temperature               | Operate : -10 to 50 degreeC<br>Storage : -40 to 80 degreeC                 |
|                              | Humidity                  | Operate : 0 to 95%RH non-condensing<br>Storage : 0 to 95%RH non-condensing |
|                              | Altitude                  | Max. 3,700m  |
| AC adaptor                   | Input                     | AC100 to 240V, 50/60Hz, Max. 1.5A  |
|                              | Type                      | Rechargeable Lithium Ion   |
| Battery pack                 | Output                    | Approx. DC14.4V / 6,380mAh   |
|                              | Capacity *5               | Approx. 130 splice and heat cycles   |
|                              | Temperature               | Recharge : 0 to 40 degreeC   |
|                              |                           | Storage : -20 to 30 degreeC  |
|                              | Battery life *6           | Approx. 500 recharge cycles  |
| Display                      | LCD monitor               | TFT 5 inches with touch screen   |
|                              | Magnification             | Approx. 15X : 16 ribbon to 60X : single                                    |
| Illumination                 | V-grooves                 | LED lamp   |
|                              | PC                        | USB2.0 Mini B type   |
| Interface                    | External LED lamp         | USB2.0 A type<br>Approx. DC5V, 500mA                                       |
|                              | Ribbon Stripper           | Mini DIN 6pin<br>DC12V, Max. 1A  |
|                              | Wireless *7               | Bluetooth 4.1 LE   |
|                              | Data storage              | Splice mode  |
| Heat mode                    |                           | 30 heat modes  |
| Splice result                |                           | 10,000 splices   |
| Splice image                 |                           | 100 images   |
| Screw hole for tripod        |                           | 1/4-20UNC  |
| Other features               | Automatic functions       | Splice mode select by fiber count analysis                                 |
|                              |                           | Discharge power calibration  |
|                              |                           | Wind protector : open/close  |
|                              |                           | Heater lid : open/close  |
|                              | Heater clamp : open/close |  |
|                              | Reference guide           | Video and PDF file stored in splicer                                       |
| Electrode                    | Replaceable without tool  |  |

## 90R16 Options

| Item                  | Model        | Remark  |
|-----------------------|--------------|---|
| V-groove              | VG12-01-200  | 12 fiber ribbon, 200 to 210µm spacing         |
|                       | FH-70-200    | 200µm coating diameter                        |
|                       | FH-70-250    | 250µm coating diameter                        |
|                       | FH-70-900    | 900µm coating diameter                        |
|                       | FH-70-2      | 2 fiber ribbon                                |
|                       | FH-70-4      | 4 fiber ribbon                                |
|                       | FH-70-8      | 8 fiber ribbon                                |
|                       | FH-70-12     | 12 fiber ribbon                               |
|                       | FH-70-16     | 16 fiber ribbon                               |
|                       | FH-70-12PC   | Pitch conversion for 12 fiber ribbon          |
|                       | FH-70-12-200 | 12 fiber ribbon, 200 to 210µm spacing         |
|                       | FH-FC-20     | 900µm in 2mm diameter cable                   |
| Fiber holder          | FH-FC-30     | 900µm in 3mm diameter cable                   |
|                       | FH-60-LT900  | 900µm loose buffer fiber                      |
| DC Adapter            | DCA-03       | Connect AC adapter not through battery        |
|                       | DCC-20       | Car cigar socket to BTR15/DCA-03              |
| DC power cord         | DCC-21       | Car battery to BTR-15/DCA-03                  |
|                       | DCC-11       | Splicer to ribbon stripper                    |
|                       | CT58         | Cladding diameter 80µm only                   |
| Optical Fiber Cleaver | CT58         | Cladding diameter 80µm only                   |
| Ribbon Fiber Stripper | RS03-80      | Cladding diameter 80µm, up to 16 fiber ribbon |
| Ribbonizing Tool      | FAT-04       | 2 to 16 fibers, 250µm diameter                |
|                       | RT-02        | 2 to 12 fibers, 200 to 250µm diameter         |
| Transfer Clamp        | CLAMP-DC-12  | Transferring drop cable on work tray          |
| J-Plate               | JP-10        | Attaching to splicer, not to work tray        |
|                       | JP-10-FC     | JP-10 with fiber clamps                       |
| Protection sleeve     | FP-04(T)     | 40mm up to 8 fiber ribbon                     |
|                       | FP-05        | 40mm, up to 12 ribbon & 16 fiber SWR          |

### Notes

- \*1: Measured with a cut-back method relevant to ITU-T and IEC standard after splicing Fujikura identical fibers. The average splice loss changes depending on the environmental condition and fiber characteristics.
- \*2: Measured at room temperature. The definition of splice time is from the fiber image appeared in LCD monitor to the estimated loss displayed. The average splice time changes depending on the environmental conditions, fiber type, and fiber characteristics.
- \*3: Measured at room temperature with the AC adapter. The heat time is defined from the start beep sound to the finish beep sound. The average heat time changes depending on the environmental conditions, sleeve type and battery pack condition.
- \*4: The electrode life changes depending on the environmental conditions, fiber type and splice modes.
- \*5: Test condition  
 (1) 16 fiber ribbon : Splice and heat time : 3.5 minutes cycle with FP-05 sleeve  
 (2) Using the splicer power save settings  
 (3) Using a not degraded battery  
 (4) At room temperature  
 The battery capacity changes when testing with different conditions from the above.
- \*6: The battery capacity decreases to a half after approx. 500 discharge and recharge cycles, The battery life is shortened further when using outside of the storage temperature range, operating temperature range, if completely discharged by storing for a long time without recharging.
- \*7: Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.



# Specifications



## CT50 Specifications

| Item                    |                     | Specifications   |
|-------------------------|---------------------|--|
| Applicable fiber        | Fiber type          | Single mode optical fiber<br>Multi mode optical fiber  |
|                         | Fiber count         | Up to 16 fiber ribbon  |
|                         | Cladding dia.       | Approx. 125µm  |
| Applicable coating      | Fiber setting plate | AD-10-M24 : Max. 900µm coating diameter<br>AD-50 : Max. 3mm coating diameter   |
|                         | Fiber holder        | Coating shape. : Refer to splicer options<br>AD-10-M24 : 5 to 20mm *1  |
| Cleave length           | Fiber setting plate | AD-50 *CD : coating diameter<br>CD= 250µm or less : 5 to 20mm *1<br>250µm < CD < 1000µm : 10 to 20mm<br>1000µm < CD < 3mm : 14 to 20mm |
|                         | Fiber holder        | Approx. 10mm   |
| Cleave angle *2         | Single fiber        | Avg. 0.3 to 0.9 degrees  |
|                         | Fiber ribbon        | Avg. 0.3 to 1.2 degrees  |
| Blade life *3           |                     | Approx. 60,000 fiber cleaves   |
| Physical description    | Dimensions W        | Approx. 120mm without projection *4  |
|                         | Dimensions D        | Approx. 95mm without projection *4   |
|                         | Dimensions H        | Approx. 58mm without projection *4   |
|                         | Weight              | Approx. 305g including battery and AD-10-M24   |
| Environmental condition | Temperature         | Operate : -10 to 50 degreeC<br>Storage : -40 to 80 degreeC   |
|                         | Humidity            | Operate : 0 to 95% non-condensing<br>Storage : 0 to 95% non-condensing   |
| Battery                 |                     | 2 pieces of LR03/AAA dry battery   |
| Wireless interface *5   |                     | Bluetooth 4.1 LE   |
| Screw hole for tripod   |                     | 1/4-20UNC  |
| Other features          | Blade rotation      | Motorized rotation<br>Manual rotation dial   |
|                         | Replaceable parts   | Blade<br>Clamp arm   |

## RS03 Specifications



| Item                    |                  | Specifications   |
|-------------------------|------------------|--|
| Applicable fiber        | Fiber type       | Single mode optical fiber<br>Multi mode optical fiber                      |
|                         | Fiber count      | Up to 16 fiber ribbon  |
|                         | Cladding dia.    | Approx. 125µm  |
|                         | Coating dia.     | 200 to 400µm   |
| Strip length            |                  | Max. 35mm  |
| Heat time *1            |                  | Approx. 3sec<br>Approx. 5sec with Eco-mode                                 |
|                         | Heat temperature | 85 to 140 degree C   |
| Physical description    | Dimensions W     | Approx. 156mm without projection   |
|                         | Dimensions D     | Approx. 49mm without projection  |
|                         | Dimensions H     | Approx. 37mm without projection  |
|                         | Weight           | Approx. 265g including battery   |
| Environmental condition | Temperature      | Operate : -10 to 50 degreeC<br>Storage : -40 to 80 degreeC                 |
|                         | Humidity         | Operate : 0 to 95%RH non-condensing<br>Storage : 0 to 95%RH non-condensing |
| AC adaptor              | Input            | AC100 to 240V, 50/60Hz, Max. 0.58A   |
| DC adaptor              | Input            | DC10 to 17V, Approx. 1A  |
| Battery                 | Type             | Rechargeable Lithium Ion   |
|                         | Output           | Approx. DC7.2V, 1840mAh  |
|                         | Capacity *2      | Approx. 600 times with Eco-mode  |
|                         | Temperature      | Recharge : 0 to 40 degreeC<br>Storage : -20 to 30 degreeC                  |
|                         | Battery life *3  | Approx. 500 recharge cycles  |
| Wireless interface *4   |                  | Bluetooth 4.1 LE   |
| Other features          | Strip operation  | Lower stripping force than previous model                                  |
|                         | Setting change   | Controlled from splicer or smartphone                                      |

## RS03 Options

| Item          | Model Name  | Remark                     |
|---------------|-------------|----------------------------|
| Spacer        | SPA-RS02-08 | Coating length 8mm         |
| DC power cord | DCC-11      | Splicer to ribbon stripper |

### Notes

- \*1: Measured at room temperature. The heat time changes depending on the environmental conditions and fiber coating type.  
 \*2: Tested at room temperature with a not degraded battery and Eco-mode. The number of cycles changes depending on the environmental conditions, stripper settings and battery degrading condition.  
 \*3: The battery capacity decreases to a half after approx. 500 discharge and recharge cycles. The battery life is shortened further when using outside of the storage temperature range, operating temperature range, if completely discharged by storing for a long time without recharging.  
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## CT50 Options

| Item                  | Model Name  | Remark                                |
|-----------------------|-------------|---------------------------------------|
| Fiber Setting Plate   | AD-50       | Optional fiber setting plate          |
| Blade                 | CB-08       | Blade for replacement                 |
| Clamp Arm             | ARM-CT50-01 | Clamp arm with anvil for replacement  |
| Fiber Scrap Collector | FDB-05      | Spare scrap collector                 |
| Side cover            | SC-CT50-01  | Side cover instead of scrap collector |
| Spacer                | SPA-CT08-10 | Cleave length 10mm                    |
|                       | SPA-CT08-9  | Cleave length 9mm                     |
|                       | SPA-CT08-8  | Cleave length 8mm                     |

### Notes

- \*1: When the cleave length is less than 10mm, the coating diameter should be 250µm or less. Also, a blade height adjustment is required before cleaving. The average cleave angle is worse than the specification when the cleave length is less than 10mm.  
 \*2: Measured with an interferometer at room temperature, not with a splicer. A new blade was used to cleave both the single fibers and 12 fiber ribbons. The cleave length is set from 10 to 16mm. The average cleave angle changes depending on the environmental conditions, blade condition, operating method, and cleanliness.  
 \*3: The blade life changes depending on the environmental conditions, operating method, and the fiber type cleaved.  
 \*4: Measured in a condition when closing the lever  
 \*5: Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.

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