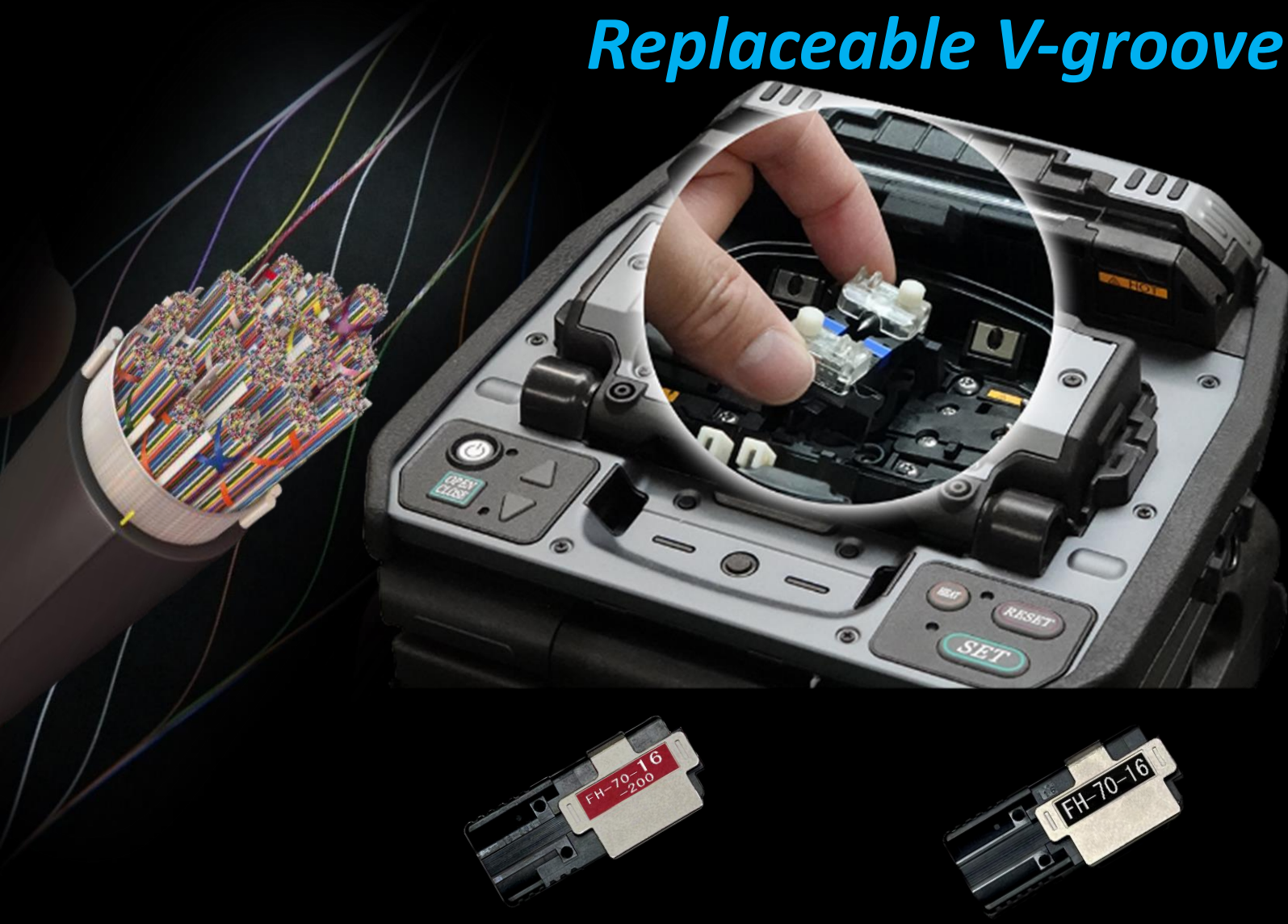
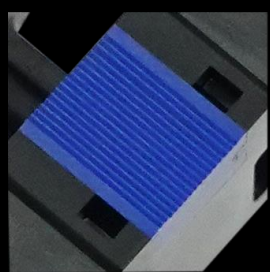


Mass Fusion Splicer **90R** kit series

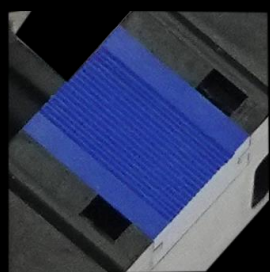
Replaceable V-groove



Up to 16F



250µm fiber spacing



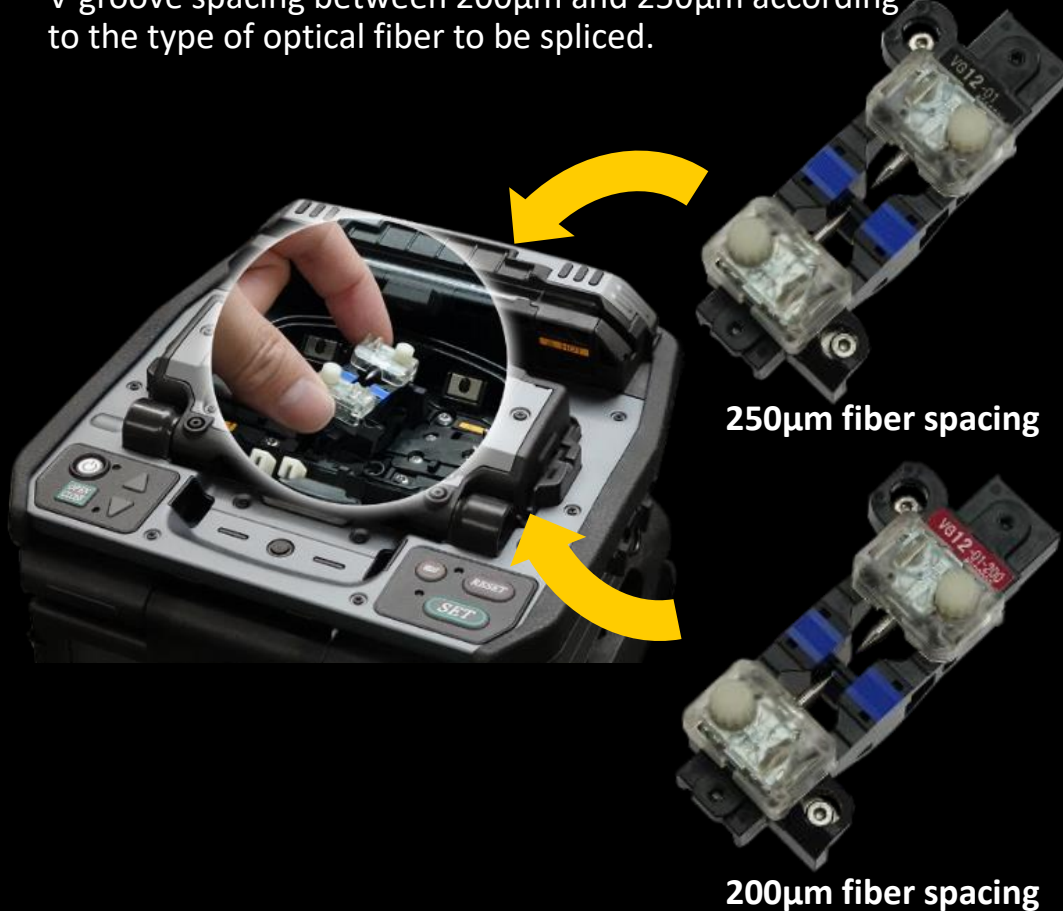
200µm fiber spacing



Cutting-edge Feature

1. Replaceable 200 μ m/250 μ m spacing V-groove

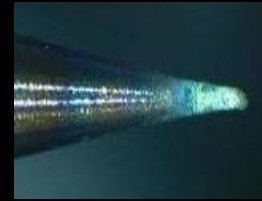
The 90R features an easily replaceable V-groove system, which allows customers to install and remove the V-groove very quickly. Almost all ribbon cables that have already been installed contain ribbons with fibers that have 250 μ m coating and therefore a 250 μ m fiber-to-fiber spacing. But with increasing cable densities, cable installations with 200 μ m coated fibers at a 200 μ m spacing is increasing. The 90R user can splice various types (and combination) of ribbon fiber by switching the V-groove spacing between 200 μ m and 250 μ m according to the type of optical fiber to be spliced.



2. Minimizing the downtime on the field

Accumulation of dust and melted glass on the V-groove is one of the causes of high splice loss during fusion splicing. The 90R includes a spare set of 12 fiber V-grooves with electrodes installed and ready to splice as part of the standard package. These spare V-grooves are field replaceable, so user downtime is minimized. The electrodes are pre-stabilized, so electrode stabilization is not required.

Glass deposition on Electrode



Glass deposition on V-groove

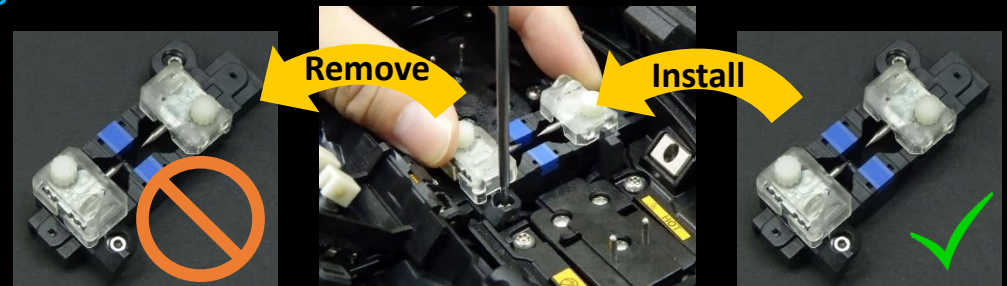


Cause of Large Fiber Offset

| No. | Gap [μm] | Offset [μm] | Cleave L | Cleave R |
|-----|----------|-------------|----------|----------|
| 1 | 68 | 0.9 | 1.4° | 1.9° |
| 2 | 63 | 0.3 | 0.5° | 1.1° |
| 3 | 55 | 1.3 | 0.7° | 0.9° |
| 4 | 54 | 5.2 | 1.7° | 1.2° |
| 5 | 54 | 0.4 | 1.3° | 0.4° |
| 6 | 62 | 1.1 | 0.4° | 0.7° |
| 7 | 48 | 1.2 | 1.9° | 0.3° |
| 8 | 48 | 2.7 | 1.0° | 1.5° |
| 9 | 48 | 0.8 | 1.9° | 0.1° |
| 10 | 43 | 6.7 | 0.9° | 0.3° |
| 11 | 42 | 0.7 | 0.4° | 1.8° |
| 12 | 40 | 2.8 | 2.0° | 0.5° |

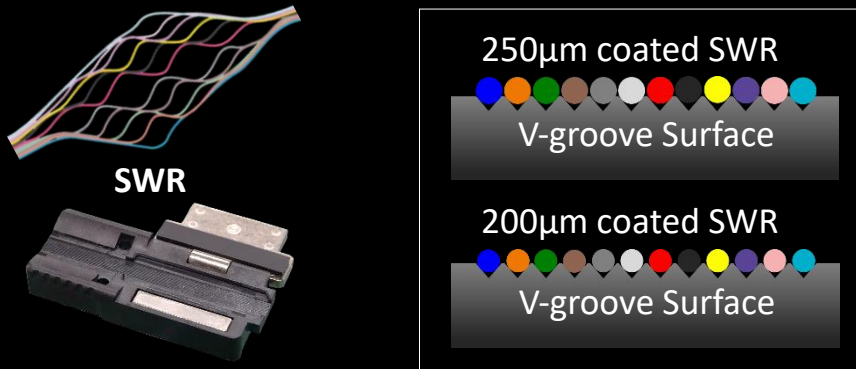
Glass deposited V-groove and electrodes

Spare V-groove with stabilized electrodes



3. Universal Fiber Holder

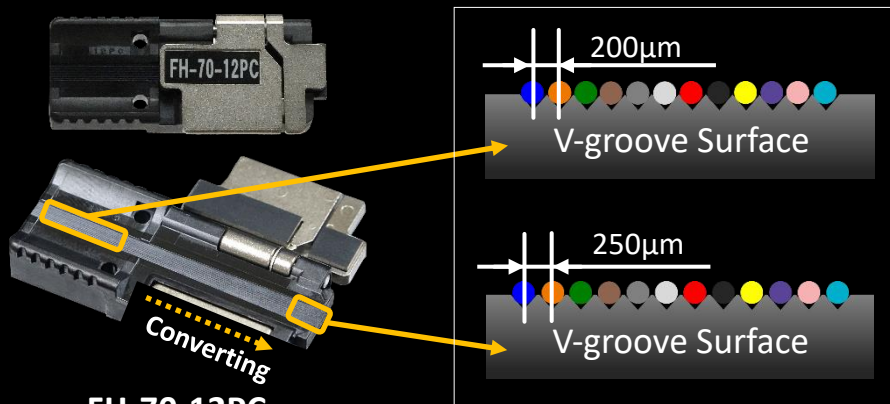
The FH-70-12 fiber holder is compatible with many types of 12 fiber ribbon, such as 0.3mm or 0.4mm thick encapsulated ribbons and 200µm or 250µm coated Spider Web Ribbon (SWR). The 250µm spacing V-grooves in the FH-70-12 fiber holder simplify SWR loading and ribbon preparation.



FH-70-12

4. Pitch Conversion Fiber Holder

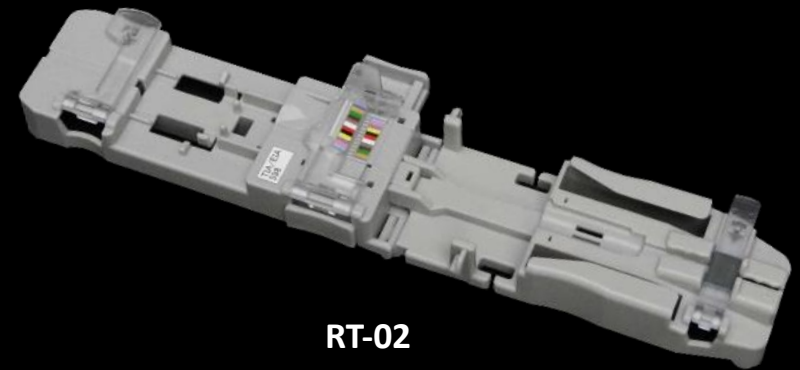
The pitch conversion fiber holder, FH-70-12PC, enables pitch conversion of individual 200µm coated fibers from a 200µm to 250µm spacing. It also enables many ribbons with 200µm spacing to be converted to 250µm spacing so they can be loaded into the standard 90R 250µm V-groove.



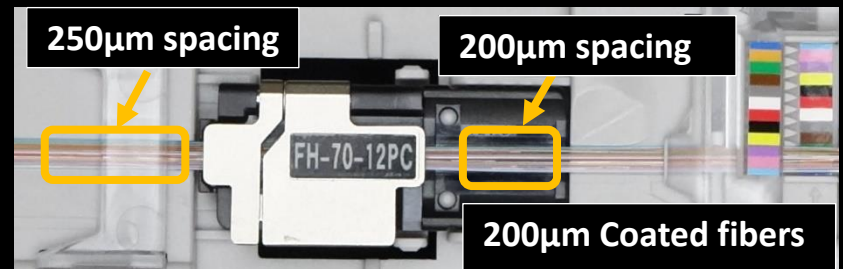
FH-70-12PC

5. Ribbonizing Tool

The RT-02 is a tool which enables quick and easy ribbonization of 12 individual fibers into a temporary ribbon which can be spliced using a 90R. No glue or adhesive is required when using this ribbonizing tool since the arranged fibers are immediately loaded into the fiber holder. The RT-02 doesn't require the user to insert the fibers in the color code sequence, which is necessary with other ribbon arrangement tools. The user can choose any fiber at random and place it in the correct slot by referring to the color code label on the tool. The RS-02 is applicable to ribbonize both 200µm and 250µm coated fibers. It's also capable of ribbonizing 200µm coated fibers into 250µm spacing ribbon using the FH-70-12PC pitch conversion fiber holder or a 200µm spacing using the "Red Label" FH-70-12-200 (200µm spacing) fiber holder.

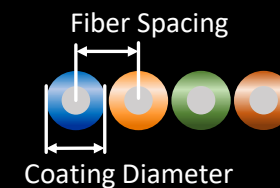


RT-02



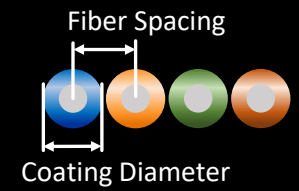
Ribbonizing 200µm coated fiber at a 250µm pitch

6. 90R16 Accessories Enable Splicing any Combination of 250μm and 200μm Ribbon



| Coating Diameter | Fiber Spacing | Ribbon Structure | Replaceable V-groove | Fiber Holder |
|------------------|---------------|----------------------------|---------------------------------|---------------------|
| 250μm | — | <p>Single fibers</p> | <p>VG16-01-250</p> <p>250μm</p> | <p>FH-70-16</p> |
| | 250μm | <p>Encapsulated ribbon</p> | | |
| | | 200μm | | |
| 200μm | — | <p>Single fibers</p> | <p>VG16-01-200</p> <p>200μm</p> | <p>FH-70-16-200</p> |
| | 200μm | <p>Encapsulated ribbon</p> | | |
| | | 200μm | | |

7. 90R12 Accessories Enable Splicing any Combination of 250μm and 200μm Ribbon



| Coating Diameter | Fiber Spacing | Ribbon Structure | Replaceable V-groove | Fiber Holder | |
|------------------|---------------------|---|----------------------|---------------------|-------------------|
| 250μm | — | <p>Single fibers</p> | <p>VG12-01</p> | <p>FH-70-12</p> | |
| | 250μm | <p>Encapsulated ribbon</p> <p>Flexible Ribbon</p> | | | |
| 200μm | 250μm | <p>Encapsulated ribbon</p> <p>Flexible Ribbon</p> | | <p>250μm</p> | <p>FH-70-12PC</p> |
| | 250μm ↓ 250μm | <p>Single fibers</p> | | | |
| 200μm | — | <p>Single fibers</p> | <p>VG12-01-200</p> | <p>FH-70-12-200</p> | |
| | 200μm | <p>Encapsulated ribbon</p> | | | <p>200μm</p> |
| | | <p>Flexible Ribbon</p> | | | |

Well-developed operability

1. Carrying Case

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

Ready to use



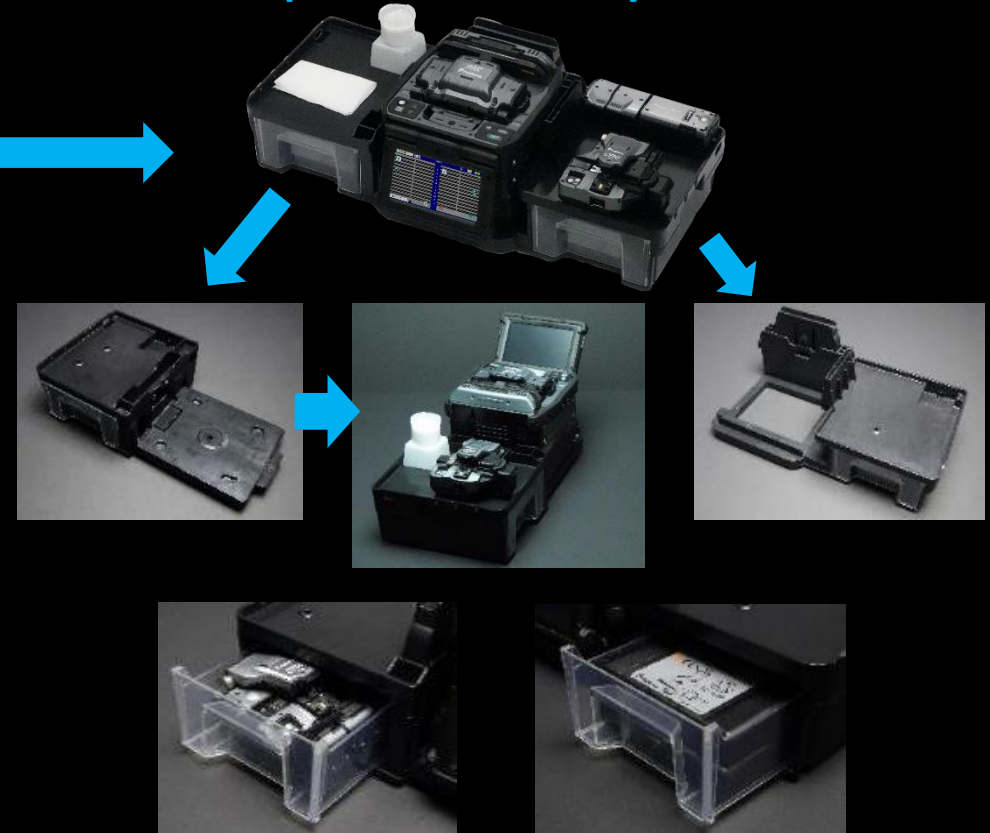
Large storage space under work tray

Lid of carrying case becomes a work tray

2. Work Tray

The work tray has many functions. There are two drawers for storage which 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.

Separable Work Tray

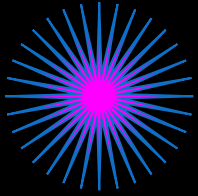


Cleaver & Stripper

Battery packs

Plenty of space in work tray

Active Fusion Control Technology



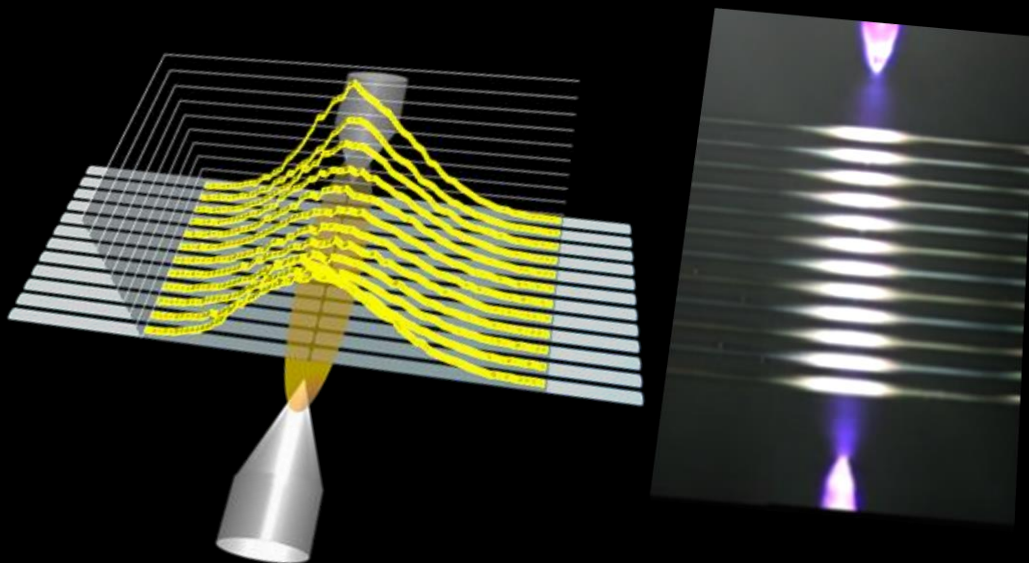
ACTIVE FUSION CONTROL TECHNOLOGY

The 90R features ACTIVE FUSION CONTROL TECHNOLOGY which has two key components. This function enables stable fusion splicing with a wide variety of optical fibers and field conditions.

1. Active Fusion control by Real-time

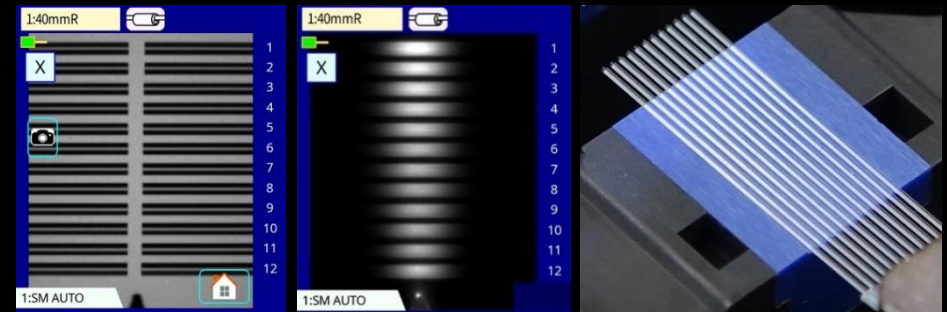
The 90R mass fusion splicer uses a wide electrode gap and heats the ribbon fibers uniformly. It features real-time fusion power control by analyzing the fiber's brightness intensity during the splicing arc. Therefore, it can splice the fiber by appropriate fusion parameters.

The 90R does not have active core alignment mechanisms, however, during the fusion, fiber surface tension effects minimize preexisting offsets.

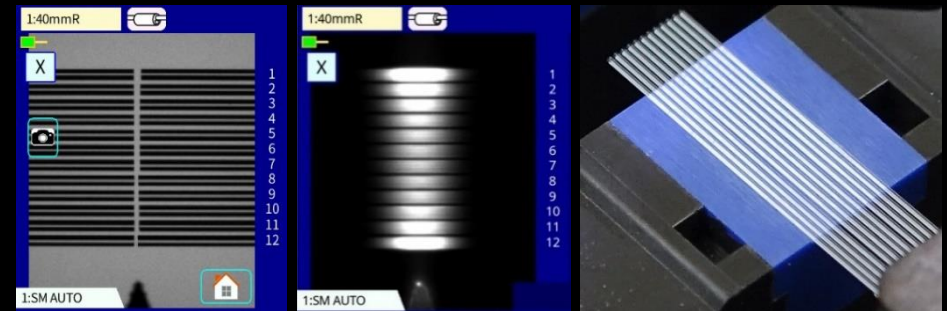


2. Active Fusion control by V-groove and fiber count

The 90R automatically determines the appropriate fusion splicing parameters according to the ribbon fiber count and the installed V-groove spacing.



250µm fiber spacing / 12-fiber ribbon

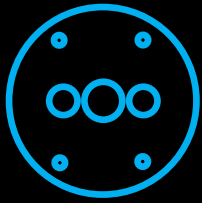


200µm fiber spacing / 12-fiber ribbon



Single fiber

Active Blade Management Technology



ACTIVE BLADE
MANAGEMENT TECHNOLOGY

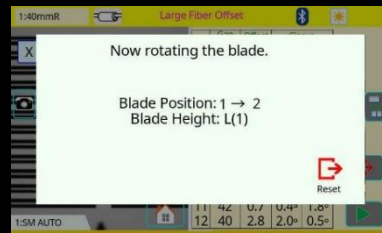
1. Active Blade rotation by motor

The 90R and CT50 fiber cleaver are provided with wireless data connectivity. This capability allows automatic cleaver blade rotation when the 90R judges the blade is worn. The 90R can be connected to two CT50 cleavers simultaneously.



1:40mmR Large Cleave Angle

| No. | Gap [μm] | Offset [μm] | Cleave |
|-----|----------|-------------|-----------|
| 1 | 62 | 0.9 | 0.8° 6.7% |
| 2 | 65 | 1.6 | 0.8° 0.1% |
| 3 | 57 | 1.2 | 0.7° 0.1% |
| 4 | 65 | 0.7 | 0.6° 5.2% |
| 5 | 60 | 1.6 | 0.4° 0.5% |
| 6 | 46 | 0.3 | 0.2° 0.0% |
| 7 | 46 | 0.2 | 0.5° 0.3% |
| 8 | 55 | 1.7 | 0.8° 0.5% |
| 9 | 50 | 1.7 | 0.1° 0.9% |
| 10 | 56 | 1.7 | 0.8° 0.6% |
| 11 | 49 | 1.9 | 0.6° 0.9% |
| 12 | 41 | 1.2 | 0.2° 0.8% |



2. Active Blade life management

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

40mmR Blade Management

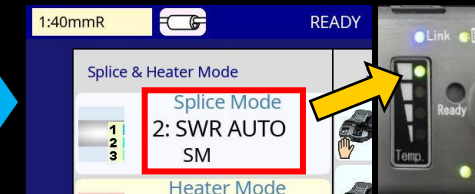
| | No.1 | No.2 | No.3 | No.4 | No.5 | No.6 | No.7 | No.8 |
|------|------|------|------|------|------|------|------|------|
| H(0) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| M(0) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| L(0) | 1014 | 1041 | 1175 | 1167 | 1522 | 1134 | 1530 | 1439 |
| H(1) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| M(1) | 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 12 fiber ribbon splice mode to SWR fiber splice mode, a wireless command from the splicer automatically changes the ribbon stripper RS03 heating temperature and time.

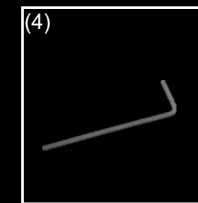
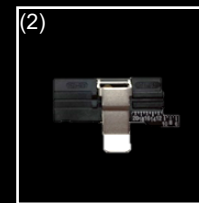
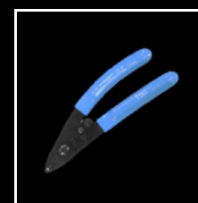
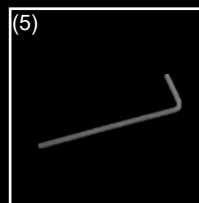
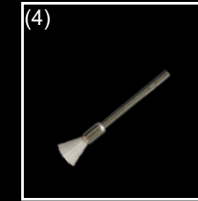
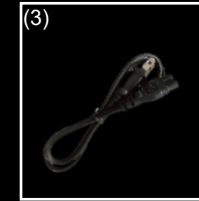
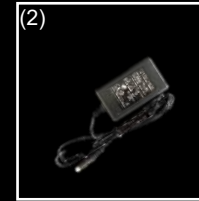
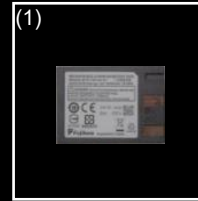
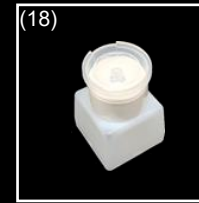
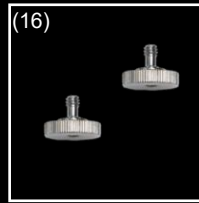
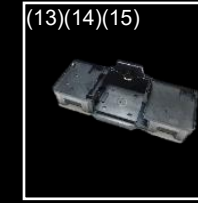
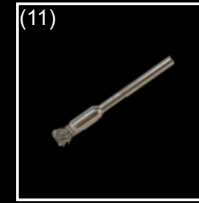
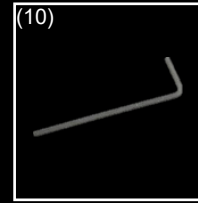
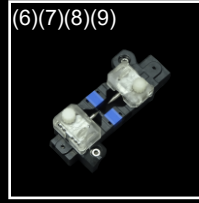
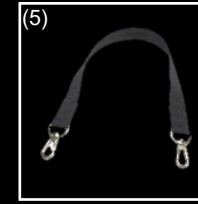
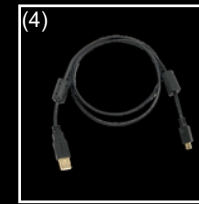
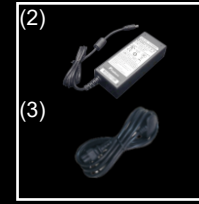
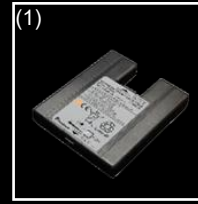


Standard Package



| Item | Model | 90R16 | 90R12 |
|-----------------------------------|-----------------------------------|--------|--------|
| Mass Fusion Splicer | 90R16 | 1 pc | — |
| | 90R12 | — | 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 | 1 pair |
| (7) 16 fiber V-groove, spare | VG16-01, 250 to 255µm spacing | 1 pc | — |
| (8) 16 fiber V-groove, spare | VG16-01-200, 200 to 210µm spacing | 1 pc | — |
| (9) 12 fiber V-groove, spare | VG12-01, 250 to 255µm spacing | 1 pc | — |
| (10) Hexagonal Wrench | HEX-01 | 1 pc | — |
| (11) V-groove Cleaning Brush | VCB-01 | 1 pc | — |
| (12) Carrying Case | CC-39 | 1 pc | — |
| (13) Work Tray Left | WT-09L | 1 pc | — |
| (14) Work Tray Right | WT-09R | 1 pc | — |
| (15) Work Tray J-Plate | JP-09 | 1 pc | — |
| (16) Tripod Screw | TS-03 | 2 pcs | — |
| (17) Carrying Case Strap | ST-03 | 1 pc | — |
| (18) Alcohol Dispenser | AP-02 | 1 pc | — |
| (19) Quick Reference Guide | QRG-03-E | 1 pc | — |
| (20) Instruction Manual | PDF file stored in Splicer RS03 | — | — |
| 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, for cleaver | 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 surface melting tension |
| Fiber count can be spliced | | 90R16 : Single and up to 16 fiber ribbon |
| Applicable fiber | Fiber type | Single mode optical fiber |
| | Cladding dia. | Multi mode optical fiber |
| Applicable coating | Fiber holder | Coating shape : Refer to options |
| | | Cleave length : Approx.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. 17 to 18sec. | |
| | SM AUTO mode : Avg. 20 to 21sec. | |
| 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 FAST mode : Avg. 17 to 19sec. |
| | | Single 60mm mode : Avg. 13 to 15sec. |
| Fiber tensile test force | | Approx. 2.0N |
| Electrode life *4 | | Approx. 1500 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°C |
| | | Storage : -40 to 80°C |
| | | Humidity |
| AC adaptor | Input | Storage : 0 to 95%RH non-condensing |
| | | Altitude |
| Battery pack | Type | Rechargeable Lithium Ion |
| | Output | Approx. DC14.4V, 6380mAh |
| | Capacity *5 | Approx. 165 splice and heat cycles |
| | Temperature | Recharge : 0 to 40°C |
| | Battery life *6 | Long Term Storage : -20 to 30°C |
| Display | LCD monitor | Approx. 500 recharge cycles |
| | Magnification | TFT 4.9 inches with touch screen |
| Illumination | V-grooves | Approx. 15X : 16 ribbon to 60X : single |
| | PC | LED lamp |
| Interface | External LED lamp | USB2.0 Mini B type |
| | Ribbon Stripper | USB2.0 A type |
| | Wireless *7 | Approx. DC5V, 500mA |
| | Splice mode | Mini DIN 6pin |
| Data storage | Splice mode | DC12V, Max. 1A |
| | Heat mode | Bluetooth 4.1 LE |
| | Splice result | 100 splice modes |
| | Splice image | 30 heat modes |
| Screw hole for tripod | | 10000 splices |
| Other features | Automatic functions | 100 images |
| | | Splice mode select by fiber count analysis |
| | | Fusion power calibration |
| | | Wind protector : open and close |
| | | Heater lid : open and close |
| Reference guide | Heater clamp : open and close | |
| Electrode | Video and PDF file stored in splicer | |
| | | Replaceable without tool |

90R16 Options

| Item | Model | Remark |
|-------------------|-----------------------------|--|
| V-groove | VG12-01-200 | 12 fiber ribbon, 200 to 210μm spacing |
| | VG16-01-200 | 16 fiber ribbon, 200 to 210μm spacing |
| Fiber holder | 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-70-10 | 10 fiber ribbon |
| | FH-70-12 | 12 fiber ribbon |
| | FH-70-16 | 16 fiber ribbon |
| | FH-70-12PC | Pitch conversion for 12 fiber ribbon |
| | FH-70-16PC | Pitch conversion for 16 fiber ribbon |
| | FH-70-12-200 | 12 fiber ribbon, 200 to 210μm spacing |
| | FH-70-16-200 | 16 fiber ribbon, 200 to 210μm spacing |
| | FH-FC-20 | 900μm in 2mm diameter cable |
| FH-FC-30 | 900μm in 3mm diameter cable | |
| FH-60-LT900 | 900μm loose buffer cable | |
| DC adaptor | DCA-03 | Connect AC adapter not through battery |
| | DCC-20 | Car cigar socket to BTR-15/DCA-03 |
| DC power cord | DCC-21 | Car battery to BTR-15/DCA-03 |
| | DCC-11 | Splicer to ribbon stripper |
| | FAT-04 | 2 to 16 fibers, 250μm diameter |
| Ribbonizing tool | FAT-04 | 2 to 16 fibers, 250μm diameter |
| Transfer Ccamp | 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 fiber ribbon |

Notes

- *1 Measured with a cut-back method after splicing the same type of fibers.
- *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 adaptor. 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, subject to our testing condition.
 - (3) Using a not degraded battery
 - (4) At room temperature
 - (5) Without accessories, RS03 etc., that use the power supply of the fusion splicer
 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

90R12 Specifications

| Item | | Specification | |
|------------------------------|--------------------------|---|----------------------|
| Fiber alignment method | | Self cladding alignment with surface melting tension | |
| Fiber count can be spliced | | 90R12 : Single and up to 12 fiber ribbon | |
| Applicable fiber | Fiber type | Single mode optical fiber Multi mode optical fiber | |
| | Cladding dia. | Approx.125μm | |
| Applicable coating | Fiber holder | Coating shape : Refer to options Cleave length : Approx.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. 16 to 17sec. 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 FAST mode : Avg. 17 to 19sec. Single 60mm mode: Avg. 13 to 15sec. | |
| | | Fiber tensile test force | Approx. 2.0N |
| | | Electrode life *4 | Approx. 1500 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°C Storage : -40 to 80°C | |
| | Humidity | Operate : 0 to 95%RH non-condensing Storage : 0 to 95%RH non-condensing | |
| | Altitude | Max. 3700m | |
| AC adaptor | Input | AC100 to 240V, 50/60Hz, Max. 1.5A | |
| Battery pack | Type | Rechargeable Lithium Ion | |
| | Output | Approx. DC14.4V, 6380mAh | |
| | Capacity *5 | Approx. 165 splice and heat cycles Recharge : 0 to 40°C Long Term Storage : -20 to 30°C | |
| | Battery life *6 | Approx. 500 recharge cycles | |
| Display | LCD monitor | TFT 4.9 inches with touch screen | |
| | 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, 500mA | |
| | Ribbon Stripper | Mini DIN 6pin DC12V, Max. 1A | |
| | Wireless *7 | Bluetooth 4.1 LE | |
| | Data storage | Splice mode | 100 splice modes |
| | Heat mode | 30 heat modes | |
| | Splice result | 10000 splices | |
| | Splice image | 100 images | |
| Screw hole for tripod | | 1/4-20UNC | |
| Other features | Automatic functions | Splice mode select by fiber count analysis | |
| | | Fusion power calibration | |
| | | Wind protector : open and close | |
| | | Heater lid : open and close | |
| | Reference guide | Video and PDF file stored in splicer | |
| | Electrode | Replaceable without tool | |



90R12 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-70-10 | 10 fiber ribbon |
| | FH-70-12 | 12 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 |
| FH-FC-30 | 900μm in 3mm diameter cable | |
| FH-60-LT900 | 900μm loose buffer cable | |
| DC Adapter | DCA-03 | Connect AC adapter not through battery |
| DC power cord | DCC-20 | Car cigar socket to BTR-15/DCA-03 |
| | DCC-21 | Car battery to BTR-15/DCA-03 |
| | DCC-11 | Splicer to ribbon stripper |
| Ribbonizing Tool | FAT-04 | 2 to 16 fibers, 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 fiber ribbon |

Notes

- *1 Measured with a cut-back method after splicing the same type of fibers.
- *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) 12 fiber ribbon : Splice and heat time : 2 minutes cycle with FP-05 sleeve
 - (2) Using the splicer power save settings, subject to our testing condition.
 - (3) Using a not degraded battery
 - (4) At room temperature
 - (5) Without accessories ,RS03 etc., that use the power supply of the fusion splicer
- *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.
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Specifications



CT50 Specifications

| Item | | Specification |
|--|---------------------|---|
| Applicable fiber | Fiber type | Single mode optical fiber Multi mode optical fiber |
| | Fiber count | Single and up to 16 fiber ribbon |
| | Cladding dia. | Approx. 125µm |
| Applicable coating | Fiber setting plate | AD-10-M24 : Max. 900µm coating diameter AD-50 : Max. 3mm coating diameter AD-16A : Max. 900µm coating diameter 1 fiber + Max. 250µm coating diameter 1 fiber |
| | Fiber holder | Coating shape. : Refer to splicer options |
| Cleave length | Fiber setting plate | AD-10-M24 : 5 to 20mm *1 AD-50 : *C.D. : coating diameter C.D. = 250µm or less : 5 to 20mm *1 250µm < C.D. < =900µm : 10 to 20mm 900µm < C.D. < =3mm : 14 to 20mm AD-16A : 5~20mm *1 |
| | 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. 60000 fiber cleaves |
| Physical description | Dimensions W | Approx. 117mm without projection *4 |
| | Dimensions D | Approx. 94mm without projection *4 |
| | Dimensions H | Approx. 59mm without projection *4 |
| | Weight | Approx. 306g including battery and AD-10-M24 |
| Environmental condition | Temperature | 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 |
| Battery | | 2 pieces of LR03, AAA dry battery |
| Wireless interface *5 | | Bluetooth 4.1 LE |
| Screw hole for tripod | | 1/4-20UNC |
| Holding mechanism for the fiber holder | | Equipped |
| Other features | Blade rotation | Motorized rotation / Manual rotation dial |
| | Replaceable parts | Blade / Clamp arm |

RS03 Specifications



| Item | | Specification | |
|-------------------------|------------------------|--|--|
| Applicable fiber | Fiber type | Single mode optical fiber Multi mode optical fiber | |
| | Fiber count | Single and up to 16 fiber ribbon | |
| | Cladding dia. | Approx. 125µm | |
| | Coating dia. | 200 to 400µm | |
| | Stripping length | Max. 35mm | |
| Heat time *1 | | Approx. 3sec Approx. 5sec with Eco-mode | |
| | Heat temperature | 85 to 140 °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°C Storage : -40 to 80°C | |
| | Humidity | Operate : 0 to 95%RH non-condensing Storage : 0 to 95%RH non-condensing | |
| AC adaptor | Input | AC100 to 240V, 50/60Hz, Max. 0.58A | |
| DC input | | DC10 to 17V, Approx. 1A | |
| Battery pack | Type | Rechargeable Lithium Ion | |
| | Output | Approx. DC7.2V, 1840mAh | |
| | Capacity *2 | Approx. 600 times with Eco-mode | |
| | Temperature | | Operate : -10 to 50°C Recharge : 0 to 40°C Long Term Storage : -20 to 30°C |
| | | Battery life *3 | Approx. 500 recharge cycles |
| Wireless interface *4 | | Bluetooth 4.1 LE | |
| Other features | Stripping force | Lower stripping force design | |
| | Automatic heat setting | Controlled from splicer or smartphone | |

CT50 Options

| Item | Model | Remark |
|-----------------------|-------------|---------------------------------------|
| Fiber Setting Plate | AD-50 | Optional fiber setting plate |
| | AD-16A | 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-CT08-09 | Cleave length 9mm |
| | SPA-CT08-08 | 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 ribbon fibers. 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.

RS03 Options

| Item | Model | Remark |
|---------------|-------------|----------------------------------|
| Spacer | SPA-RS02-08 | Coating length 8mm |
| DC power cord | DCC-11 | Splicer to ribbon fiber 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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Fujikura Ltd.

1-5-1, Kiba, Koto-ku, Tokyo 135-8512, Japan
General inquiries : +81-3-5606-1164

Service & support : +81-43-484-3962

<https://www.fujikura.com>

Fujikura Europe Ltd.

C51 Barwell Business Park, Leatherhead Road, Chessington, Surrey, KT9 2NY, UK
General inquiries : +44-20-8240-2000

Service & support : +44-20-8240-2020

<https://www.fujikura.co.uk>

Opternus GmbH

Bahnhofstr. 5 | 22941 Bargteheide (Hamburg) exklusiv autorisierter Distributor, Schulungs- und Servicecenter
Telefon: +49 (0) 4532-2044100 | Fax: +49 (0) 4532-204425 | info@opternus.de | www.opternus.de