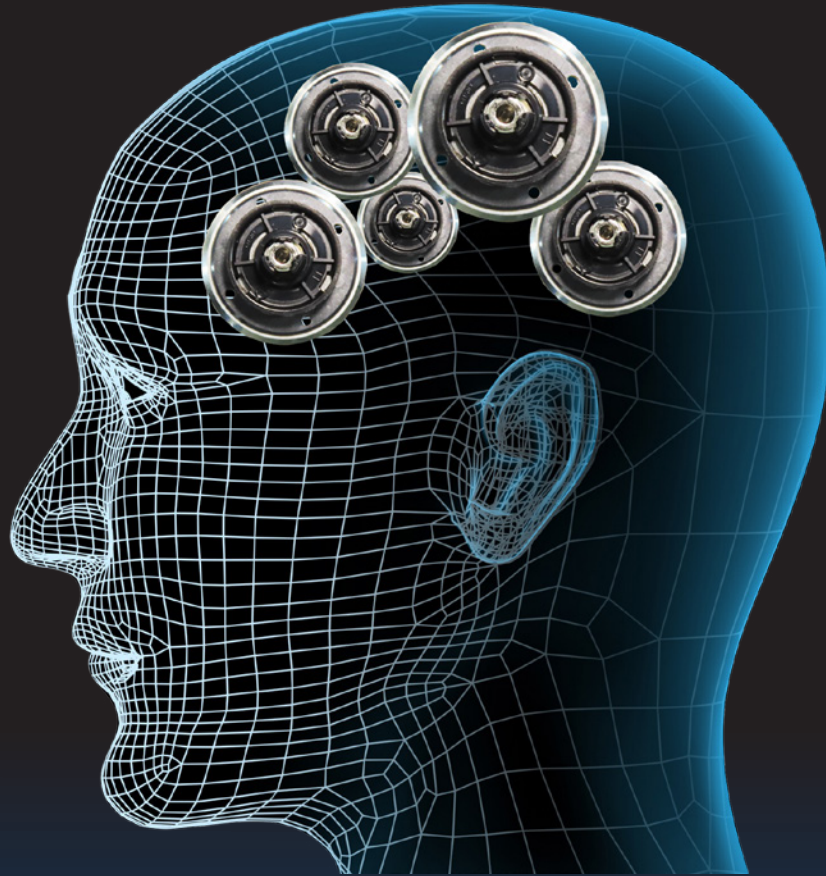


Active **Blade** Management Technology

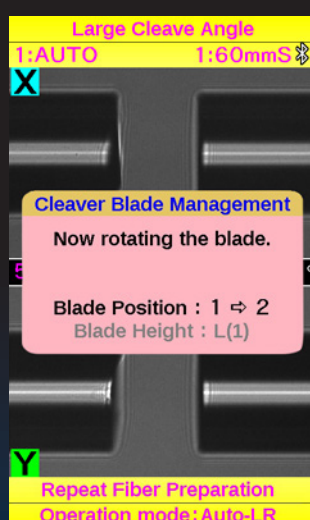
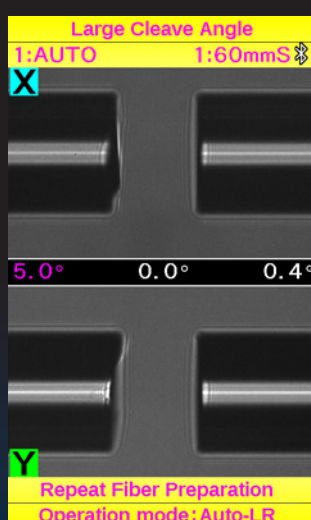


Core Alignment Splicer Kit
70S+ and CT50

Active Blade Management Technology

1. Automatic Blade Rotation

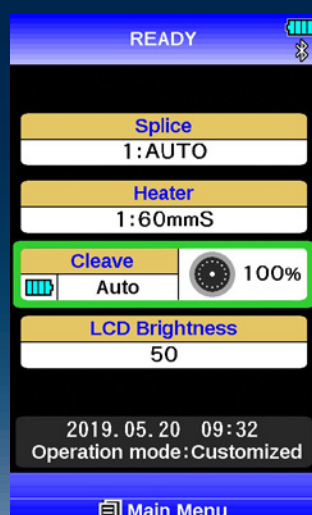
The 70S+ fusion splicer and CT50 fiber cleaver have wireless data connectivity. This capability allows automatic cleaver blade rotation when the splicer judges the blade is worn.



Motorized blade

2. Blade Life Management

The 70S+ fusion splicer indicates the remaining blade life and also informs the user when a blade height change is required.



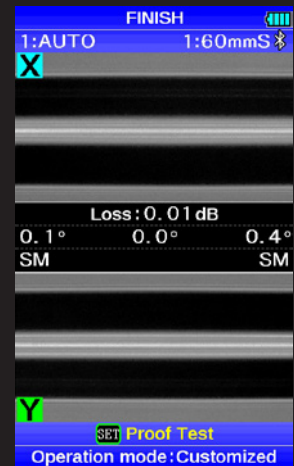
| No. | Blade Height | | |
|-----|--------------|------|------|
| | L(1) | M(2) | H(3) |
| 1 | 1014 | 0 | 0 |
| 2 | 1041 | 0 | 0 |
| 3 | 1175 | 0 | 0 |
| 4 | 1167 | 0 | 0 |
| 5 | 1060 | 0 | 0 |
| 6 | 1134 | 0 | 0 |
| 7 | 1530 | 0 | 0 |
| 8 | 1439 | 0 | 0 |
| 9 | 1185 | 0 | 0 |
| 10 | 1218 | 0 | 0 |
|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

▲ + Blade Rotation
☐ Blade Height Change
ESC Exit

Other Features

1. Core Alignment Technology

The 70S+ high precision lenses provide an accurate core to core alignment regardless core-cladding concentricity error. Also, the lenses discriminate the fiber types. The 70S+ fusion splicer automatically uses the optimum arc discharge parameters in accordance with the fiber type.



2. Full Automatic Mechanism

The 70S+ fusion splicer has an automatic open-close mechanisms of the wind protectors, sheath clamps and tube heater. It reduces operation procedures, and significantly improves work efficiency.



3. Quickest tube-heating

The fibre protection sleeve is heated by a pair of heater plates.

- 13 sec tube heating with FP-03 sleeve
- 9 sec tube heating with Slim 60mm sleeve



4. Easy Maintenance

The CT50 fiber cleaver has a user replaceable blade and rubber clamps - there's no need to send the device to a service center for blade or clamp replacement.



User replaceable cleaver blade

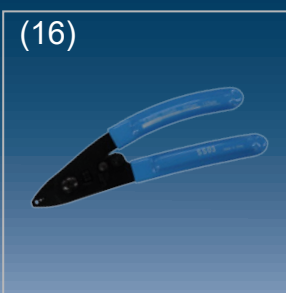
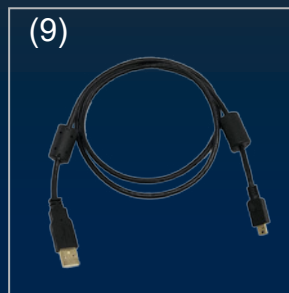
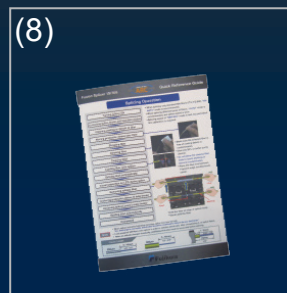
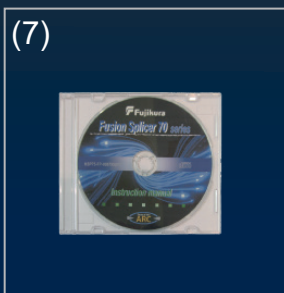
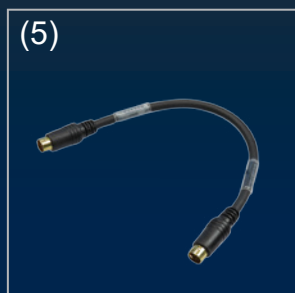
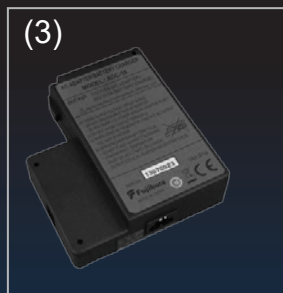


User replaceable rubber clamps

Standard Package



| Description | Model No. | Qty |
|----------------------------------|----------------|-------|
| (1) Fusion splicer | 70S+ | 1pc |
| (2) Battery pack | BTR-09A | 1pc |
| (3) AC adapter | ADC-18 | 1pc |
| (4) AC power cord | ACC-XX | 1pc |
| (5) Battery charge cord | DCC-18 | 1pc |
| (6) Spare electrodes | ELCT2-20A | 1pair |
| (7) Instruction manual CD | M-70+ | 1pc |
| (8) Quick reference guide | Q-70S+/19S+(E) | 1pc |
| (9) USB cable | USB-01 | 1pc |
| (10) Carrying case | CC-30 | 1pc |
| (11) Work tray | | 1pc |
| (12) Strap | | 1pc |
| (13) Sleeve loader | SL-01 | 1pc |
| (14) Alcohol pot | AP-01 | 1pc |
| (15) Screw driver | SD-01 | 1pc |
| (16) Single fiber stripper | SS03 | 1pc |
| (17) Fiber cleaver | CT50 | 1pc |
| (18) Fiber plate | AD-10-M24 | 1pc |
| (19) Fiber cleaver carrying case | CC-37 | 1pc |



Specifications

70S+ Specifications



| Item | | Specifications |
|------------------------------|---------------------|------------------------------------|
| Fiber alignment method | | Active core alignment |
| Fiber count can be spliced | | Single fiber |
| Applicable optical fiber | Fiber type | Single mode optical fiber |
| | Cladding dia. | Multi mode optical fiber |
| Applicable coating | Sheath clamp | 80 to 150um |
| | | Coating dia. : Max. 3000um |
| Fiber splice performance | Splice loss*1 | Cleave length : 5 to 16mm |
| | | ITU-T G.652 : Avg. 0.02dB |
| | | ITU-T G.651 : Avg. 0.01dB |
| | | ITU-T G.653 : Avg. 0.04dB |
| | Splicing time*2 | ITU-T G.655 : Avg. 0.04dB |
| | | ITU-T G.657 : Avg. 0.02dB |
| Applicable protection sleeve | Sleeve type | SM FAST mode : Avg. 7sec. |
| | Sleeve length | AUTO mode : Avg. 15sec. |
| | Sleeve dia. | Heat shrinkable sleeve |
| Sleeve heat performance | Heat time*3 | Max. 62mm |
| | | Max. 6mm before shrinking |
| | | 60mm slim mode : Avg. 9sec. |
| | | 60mm mode : Avg. 13sec. |
| Fiber tensile test force | | Approx. 2.0N |
| Electrode life*4 | | Approx. 5,000 splices |
| Physical description | Dimensions W | Approx.146mm without projection |
| | Dimensions D | Approx.159mm without projection |
| | Dimensions H | Approx.150mm without projection |
| | Weight | Approx. 2.7 kg including battery |
| Environmental condition | Temperature | Approx. 2.7 kg including battery |
| | | Operate : -10 to 50 degreeC |
| | Humidity | Storage : -40 to 80 degreeC |
| | | Operate : 0 to 95% non-condensing |
| | Altitude | Storage : 0 to 95% non-condensing |
| | | Max. 5,000m |
| AC adaptor | Input | Max. 5,000m |
| Battery pack | Type | AC100 to 240V, 50/60Hz, Max. 1A |
| | Output | Rechargeable Lithium Ion |
| | Capacity *5 | Approx. DC14.4V, 3720mA |
| | Temperature | Approx. 200 splice and heat cycles |
| | Battery life *6 | Recharge : 0 to 40 degreeC |
| Display | LCD monitor | Storage : -20 to 30 degreeC |
| | Magnification | 200 to 500 recharge cycles |
| Illumination | V-grooves | TFT 4.73 inches |
| Interface | PC | 200 to 320x |
| | Ribbon Stripper | LED lamp |
| | Wireless *7 | USB2.0 MINI B type |
| | | DC12V, Max. 1A |
| Data storage | Splice mode | Mini DIN 6pin |
| | Heat mode | Bluetooth® 4.1 LE |
| | Splice result | 100 splice modes |
| | Fiber image | 30 heat modes |
| Screw hole for tripod | | 20,000 results |
| Other features | Automatic functions | 100 images |
| | | Splice mode select by fiber type |
| | | Fiber heat calibration |
| | | Wind protector : open/close |
| | | Sheath clamp : open |
| | | Heater lid : open/close |
| | Training | Heater clamp : open/close |
| | | Pre-installed video |

70S+ Options

| Item | Model Name | Remark |
|---------------------|-------------|---|
| Fiber holder | FH-70-250 | 250um coating dia. |
| | FH-70-900 | 900um coating dia. |
| | FH-60-DC250 | 250um in drop wire cable |
| | FH-FC-20 | 900um in 2mm cable |
| | FH-FC-30 | 900um in 3mm cable |
| Sheath clamp | FH-60-LT900 | 900um loose buffer cable |
| | CLAMP-S70C | Normal clamp attached to 70S+ in standard package |
| | CLAMP-S70D | 900um loose buffer cable |
| Battery pack*8 | BTR-09A | Spare battery pack |
| Battery charge cord | DCC-18 | ADC-18 to BTR-09A |
| DC power cord | DCC-12 | From car cigar socket |
| | DCC-13 | From car battery |
| Electrodes | ELCT2-20A | Spare electrodes |
| J-plate | JP-06 | Sleeve place plate |

- Notes
- *1: Measured with a cut-back method relevant to ITU-T standard after splicing Fujikura identical fibers. The average splice loss changes depending on the environmental condition and fiber characteristics.
- *2: Measured at the room temperature. The average splice time changes depending on the environmental condition, fiber type and fiber characteristics.
- *3: Measured at the room temperature with the AC adaptor. The average time changes depending on the environmental condition, sleeve type and battery pack condition.
- *4: The electrode life changes depending on the environmental condition, fiber type and splice modes.
- *5: The test condition was
(1) Splice and heat time : 2 minutes cycle
(2) Using the splicer power save settings
(3) Using a not degraded battery pack
(4) At the room temperature
The number of cycles changes when the above conditions change.
- *6: The battery capacity decreases to a half after 200 to 500 recharge cycles. The battery life was shortened more by the out of storage temperature range, out of operating temperature range or complete discharge by storing a long time without recharge.
- *7: Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.
- *8: Please be ware the IATA regulation in case of shipping by air.

Specifications

SS01/03 specifications



| Item | SS01 | SS03 |
|----------------------------|------------------------|----------------|
| 1) Stripping coating dia. | 250um | 250um |
| Fiber dia. after stripping | 125um cladding | 125um cladding |
| 2) Stripping coating dia. | None | 900um |
| Fiber dia. after stripping | None | 250um coating |
| 3) Stripping coating dia. | None | 2000 to 3000um |
| Fiber dia. after stripping | None | 900um coating |
| Dimension | Approx. 164 x 45 x 5mm | |
| Weight | Approx. 100g | |

Fiber protection sleeve specifications



| Item | FP-03/FPS series | FP-04/05 series |
|-----------------------|-----------------------------------|-----------------|
| Outer tube material | Polyethylene | |
| Inner tube material | Ethylene-Vinyl Acetate | |
| Strength member | Stainless | Quartz glass |
| Heat shrink operation | Temperature: -10 to 50 degreeC | |
| | Humidity: 0 to 95% non-condensing | |
| Storage | Temperature: -40 to 60 degreeC | |
| | Humidity: 0 to 95% non-condensing | |

CT50 Specifications



| Item | Specifications | |
|-------------------------|------------------|--|
| Applicable fiber | Fiber type | Single mode optical fiber Multi mode optical fiber |
| | Fiber count | Up to 12 fibers |
| | Cladding dia. | Approx. 125um |
| | Coating dia. | 160 to 900um |
| Cleave length | Fiber plate | AD-10-M24: 5 to 24mm AD-50: 10 to 20mm |
| | Fiber holder | Approx. 10mm |
| Cleave angle | Single fiber *1 | Avg. 0.3 to 0.9 degrees |
| | Fiber ribbon *1 | Avg. 0.3 to 1.2 degrees |
| Blade life *2 | | Approx. 60,000 fibers |
| Physical description | Dimension | Approx. W120 x D95 x H58mm when closing the lever |
| | Weight | Approx. 305g including battery and AD-10-M24 |
| Environmental condition | Temperature | Operate : -10 to 50 degreeC Storage : -40 to 80 degreeC |
| | Humidity | Operate : 0 to 95% non-condensing Storage : 0 to 95% non-condensing |
| Battery | | 2 pieces of LR03/AAA dry battery |
| Wireless interface *3 | | Bluetooth® 4.1 LE |
| Screw hole for tripod | | 1/4-20UNC |
| Other features | Blade rotation | Motorized rotation Manual rotation dial |
| | | User blade replacement |
| | Consumable items | User clamp and anvil replacement |

CT50 Options

| Item | Model Name | Remark |
|-----------------|--------------|-----------------------|
| Blade | CB-08 | Spare blade |
| Clamp and Anvil | ARM-CT50-01 | Spare clamp and anvil |
| Dust box | FDB-05 | Spare dust box |
| Side cover | SC-CT50-01 | |
| Fiber plate | AD-10-M24 | Coating 160 to 900um |
| | AD-50 | Coating 160 to 3000um |
| Fiber holder | FH-50 series | |
| | FH-60 series | |
| | FH-70 series | |

Notes

*1: The average cleave angle was measured with an interferometer, not with the splicer. And, a new blade was used to cleave both the single fiber and 12 fiber ribbon. The average cleave angle changes depending on the environmental condition, blade condition, operating method and cleanness.

*2: The blade life changes depending on the environmental condition, operating method and the fiber type to be cleaved.

*3: Bluetooth® word mark and logos are the registered trademarks of Bluetooth SIG, Inc.



Please visit our web site!

<https://www.fusionsplicer.fujikura.com>



Fujikura Ltd.

Fujikura Asia Ltd.

Fujikura Europe Ltd.

AFL

Fujikura (China) Co., Ltd.

1-5-1, Kiba, Koto-ku, Tokyo 135-8512, Japan

Phone : +81-3-5606-1164 Fax : +81-3-5606-1534 <http://www.fujikura.com>

438A Alexandra Road, Block A Alexandra Technopark #08-03 Singapore 119967

Phone : +65-6-278-8955 Fax : +65-6-278-0965 <http://www.fujikura.com.sg>

C51 Barwell Business Park, Leatherhead Road, Chessington, Surrey KT9 2NY, UK

Phone : +44-20-8240-2000 Fax : +44-20-8240-2010 <http://www.fujikura.co.uk>

260, Parkway East, Duncan, SC29334, USA

Phone : +1-800-235-3423 Fax : +1-800-926-0007 <http://www.afglobal.com>

7th Floor, Shanghai Hang Seng Bank Tower, 1000 Lujiazui Ring Road, Pudong New Area, Shanghai 200120, CHINA

Phone : +86-21-6841-3636 Fax : +86-21-6841-2070 <http://www.fujikura.com.cn>