ACTIVE BLADE MANAGEMENT
technology

# Core Alignment Fusion Splicer

# *88S*

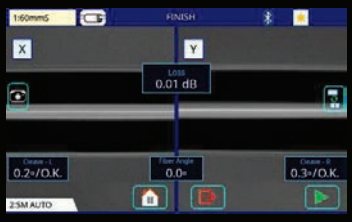
## *Designed to keep you going*


Fujikura

# True Core Alignment

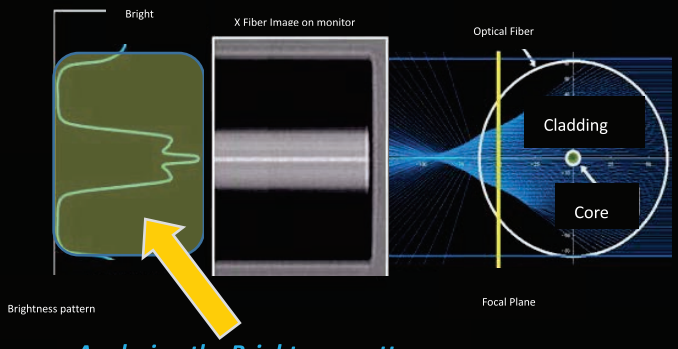
## 1. Core Alignment Technology

The 88S fusion splicer has high precision lenses which provide an accurate core to core alignment regardless of core-cladding concentricity error. Also, the lenses allow the splicer to discriminate between fiber types.




## 2. Advanced Image Processing Technology

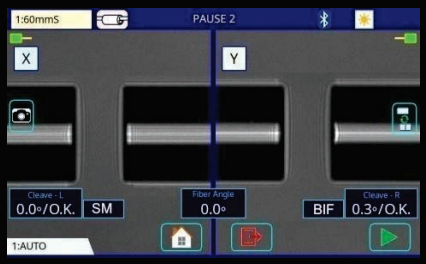
The 88S possesses advanced image processing technology which analyzes the profile of the fiber image as a brightness pattern. The 88S finds the true core position and achieves the consistent lower splice loss.

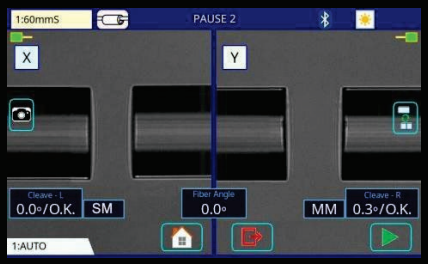



*Analyzing the Brightness pattern*

## 3. Fiber Discrimination Function

The 88S fusion splicer automatically identifies the optimum arc discharge parameters in accordance with the fiber type.



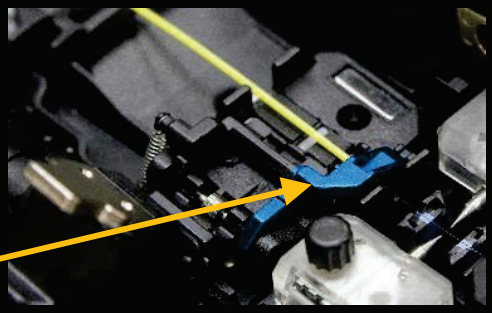

# Faster Automation

The faster automated features of the 88S fusion splicer reduce installation times. With this splicer, an operator can complete the entire splicing process from splicing to heating without touching the 88S and only moving the fiber.

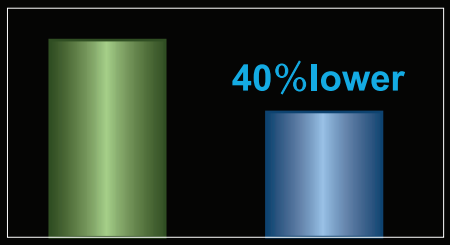
**Wind protectors**

**Tube heater clamp**

The fiber retention clamps support the automated operations. When the sheath clamps open automatically after splicing, the fiber retention clamps gently hold the spliced fiber to keep it from flying out. The retention clamps release when the fiber is lifted by the operator.

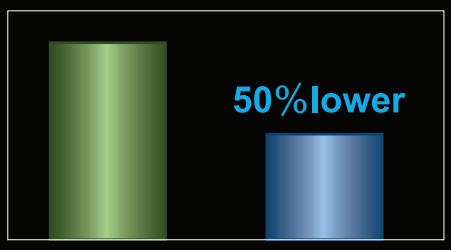



Time for opening wind protector and sheath clamp after splicing




80S New 88S

Time for placing fiber into heater



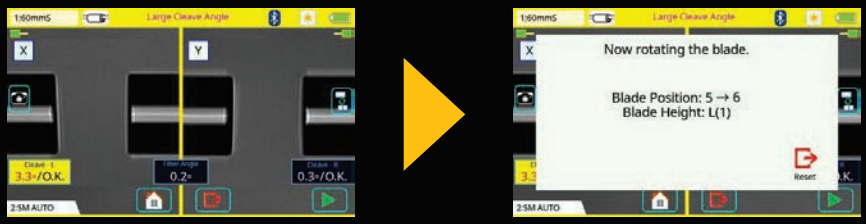

80S 80C+, New 88S

# Active Blade Management Technology

## 1. Automatic Blade Rotation

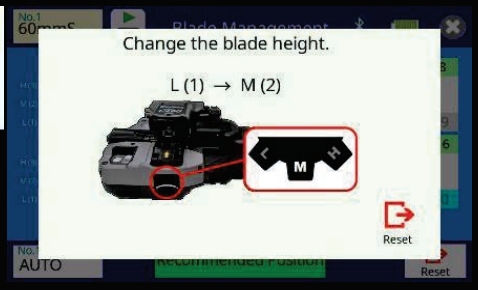
The 88S fusion splicer and CT50 fiber cleaver are enabled with wireless data connectivity. This capability allows automatic cleaver blade rotation when the splicer judges the blade is worn. Also, the 88S fusion splicer can connect to two CT50s simultaneously.

**Motorized blade**




## 2. Blade Life Management

The 88S fusion splicer displays the remaining blade life and informs the user when a blade height change, position change, or new blade is required.


# Specifications

| Item | | Specification |
|---|---|---|
| Fiber alignment method | | Active core alignment |
| Fiber count can be spliced | | Single fiber |
| Applicable fiber | Fiber type | SMF(G.652 / 657),MMF(G.651), DSF(G.653),NZDSF(G.655) |
| | Cladding dia. | 80 to 150μm |
| | | |
| Applicable coating | Sheath clamp | Coating dia. : Max. 3,000μm |
| | | Cleave length : 5 to 16mm |
| Fiber splice performance | Splice loss | ITU-T G.652 : Avg. 0.02dB |
| | | ITU-T G.651 : Avg. 0.01dB |
| | | ITU-T G.653 : Avg. 0.04dB |
| | | ITU-T G.655 : Avg. 0.04dB |
| | | ITU-T G.657 : Avg. 0.02dB |
| | Splice time | Typical 7 sec. |
| Applicable protection sleeve | Sleeve type | Heat shrinkable sleeve |
| | Sleeve length | Max. 66mm |
| | Sleeve dia. | Max. 6.0mm before shrinking |
| Sleeve heat performance | Heat time | Typical 9 sec. |
| Fiber tensile test force | | Approx. 2.0N |
| Electrode life | | Approx. 5,000 splices |
| Physical description | Dimensions | 146W x 159D x 150H (mm) |
| | | |
| | Weight | Approx. 2.8kg including battery |
| Environmental condition | Temperature | Operate : -10 to 50ºC |
| | | Storage : -40 to 80ºC |
| | Humidity | Operate : 0 to 95%RH non-condensing |
| | | Storage : 0 to 95%RH non-condensing |
| | Altitude | Max. 5,000m |
| AC adaptor | Input | AC100 to 240V, 50/60Hz, Max. 1.5A |
| Battery pack | Type | Rechargeable Lithium Ion |
| | Output | Approx. DC14.4V / 6,380mAh |
| | Capacity | Approx. 300 splice and heat cycles |
| | Temperature | Recharge : 0 to 40ºC |
| | | Storage : -20 to 30 ºC |
| | Battery life | Approx. 500 recharge cycles |
| Display | LCD monitor | TFT 5 inches with touch screen |
| | Magnification | 200 to 320x |
| Illumination | V-grooves | LED lamp |
| Interface | PC | USB2.0 Mini B type |
| | External LED lamp | USB2.0 A type Approx. DC5V, 500mA |
| | Ribbon Stripper | Mini DIN 6pin DC12V, Max. 1A |
| | Wireless *1 | 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 |
| Other features | Automatic functions | Splice mode select by fiber 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 |
| | Sheath clamp | Easy sleeve positioning clamp |
| | Electrode | Replaceable without tool |

# 88S Standard Package

| Description | Model No. | Qty |
|---|---|---|
| Core Alignment Fusion Splicer | 88S | 1pc |
| Battery Pack*2 | BTR-15 | 1pc |
| AC Adapter | ADC-20 | 1pc |
| AC Power Cord | ACC-15 | 1pc |
| USB Cable | USB-01 | 1pc |
| Fusion Splicer Strap | ST-02 | 1pc |
| Electrodes (spare) | ELCT2-16B | 1pair |
| Fiber Holder Set Plate | SP-03 | 1pair |
| Carrying Case Strap | ST-03 | 1pc |
| Alcohol Dispenser | AP-02 | 1pc |
| Quick Reference Guide | QRG-02-E | 1pc |
| Optical Fiber Cleaver | CT50 | 1pc |
| Hexagonal Wrench | HEX-01 | 1pc |

# 88S Options

| Item | Model | Remark |
|---|---|---|
| Fiber holder | FH-70-250 | 250μm coating diameter |
| | FH-70-900 | 900μm coating diameter |
| | FH-FC-20 | 900μm in 2mm diameter cable |
| | FH-FC-30 | 900μm in 3mm diameter cable |
| DC Adapter | DCA-03 | Connect AC adapter not through battery |
| Single Fiber Stripper | SS-03 | Three hole fiber stripper |
| Single Fiber Cleaver | CT-08 | High Precision Single Fiber Cleaver |
| DC power cord | DCC-20 | Car cigar socket to BTR-15/DCA-03 |
| | DCC-21 | Car battery to BTR-15/DCA-03 |
| 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-03 | 60mm Max. 900μm coating diameter |
| | FP-03(L=40) | 40mm Max. 900μm coating diameter |
| | FP-03M | FP-03 with non-magnetic material |

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

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

BEST QUALITY SERVICE
-SINCE 1980-