

## Connecting the Future

**Wireless data communication**



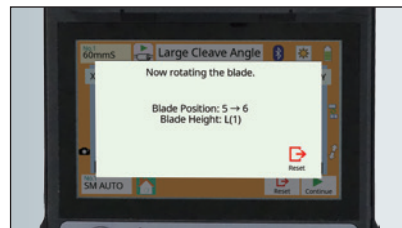
Single Fiber Fusion Splicer

# Fujikura 41S

Active V-groove Alignment



Large cleave angle error



Screen on the splicer



Auto blade rotating

- Easy protection sleeve positioning **Newly Installed**
- Warm splice image estimation
- Tool less replaceable electrode
- Multi-functional carrying case with integrated work station

# Fujikura 41S

## SPECIFICATIONS

|                                                   |                                                                                                                                                                           |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicable fiber                                  | Single / SMF(G.652/657), MMF(G.651), DSF(G.653), NZDSF(G.655)                                                                                                             |
| Cladding dia. / Sheath dia.                       | 125µm / 250, 900, 2000 to 3000µm fiber with sheathclamp                                                                                                                   |
| Cleave length                                     | 5mm to 16mm with sheathclamp                                                                                                                                              |
| Splicing mode / Heating mode                      | Total 100 splicing modes / 30 heating modes                                                                                                                               |
| Typical splice loss*1                             | 0.03dB(SM), 0.01dB(MM), 0.05dB(DS) and 0.05dB(NZDS)                                                                                                                       |
| Return loss                                       | 60dB or greater                                                                                                                                                           |
| Typical splice time                               | 6sec. SM FAST, 9sec. SM AUTO                                                                                                                                              |
| Typical tube heating time                         | 25sec. FP-03                                                                                                                                                              |
| Splice result storage                             | Last 10,000 splices                                                                                                                                                       |
| Viewing methods / Magnification                   | 2 axis 2CMOS camera with 5.0" color LCD.<br>132X magnification. 200X,300X magnification after splicing                                                                    |
| Tension test                                      | 1.96 to 2.25N                                                                                                                                                             |
| Applicable protection sleeve                      | 60mm, 40mm and Fujikura micro sleeves                                                                                                                                     |
| No. of splice & heating per battery full charge*2 | Typical 200 cycles with BTR-11A                                                                                                                                           |
| Electrode life                                    | Typical 5000 splices                                                                                                                                                      |
| Wireless data communication                       | Wireless technical standard : Bluetooth®4.1LE*3                                                                                                                           |
| Dimensions / Weight                               | 131(W) x 201(D) x 79(H) mm excluding rubber / 1.3kg (including battery)                                                                                                   |
| Operating condition                               | Altitude : 0 to 5,000m above sea level, Wind : 15m/sec **<br>Temperature : -10 to 50deg C, Humidity : less than 95%RH, non-dew                                            |
| Resistance feature*5                              | Shock resistance : 76cm (30inch) bottom surface drop<br>Dust resistance : Exposure to dust ( 0.1 to 500µm dia. Alumina Silicate)<br>Rain resistance : H=10mm/hr for 10min |
| Other features                                    | PC software upgrade / data management                                                                                                                                     |
| Terminals                                         | USB 2.0 (Mini-B Type) connector for PC communication, USB 2.0(host)                                                                                                       |

\*1:Typical value of the inspection with Fujikura identical fiber. Measured by cut-back method relevant to ITU-T and IEC standards.

\*2:One(1) splicing and heating cycle per two(2) min. under room temperature condition.

\*3:The Bluetooth wireless data communication may not function properly to certain devices.

\*4:Under strong wind, it is necessary to lengthen the heating time setting.

\*5:The shock, dust and rain resistance test do not guarantee the product will not be damaged under these conditions.

\*Bluetooth® and Bluetooth logo is a registered trademark of Bluetooth SIG, Inc.



## STANDARD PACKAGE

| Description           | Model No.                                           | Q'ty  |
|-----------------------|-----------------------------------------------------|-------|
| Fusion splicer        | 41S with BTR-11A, ELCT2-16B and CLAMP-S31A          | 1pc   |
| Set plate             | SP-31                                               | 1pair |
| AC adapter            | ADC-19A                                             | 1pc   |
| AC power cord         | ACC-XX<br>XX=08(JP),09(US),10(UK),11(EU),12(AU)     | 1pc   |
| Carrying case         | CC-36                                               | 1pc   |
| Spare electrodes      | ELCT2-16B                                           | 1pair |
| Single fiber stripper | SS03<br>(for single 250, 900, 2000 to 3000µm fiber) | 1pc   |
| Instruction manual    | M-41                                                | 1pc   |
| Quick reference guide | Q-41S-E                                             | 1pc   |
| Alcohol pot           | AP-02                                               | 1pc   |

## OPTIONAL ITEMS

| Description  | Model No.                                                                               |
|--------------|-----------------------------------------------------------------------------------------|
| Fiber holder | FH-70-250 (coating dia. of 250µm)                                                       |
|              | FH-70-900 (coating dia. of 900µm)                                                       |
|              | FH-60-DC250<br>(coating dia. of 250µm in drop cable)                                    |
|              | FH-FC-20<br>(coating dia. of 900µm in 2.0mm Sheath dia.)                                |
|              | FH-FC-30<br>(coating dia. of 900µm in 3.0mm Sheath dia.)                                |
| Sheathclamp  | FH-60-LT900 (900µm dia. loose buffer fiber)                                             |
|              | CLAMP-S31A (included in standard package)<br>CLAMP-S31B (900µm dia. loose buffer fiber) |
| Battery pack | BTR-11A (Li-ion)*6                                                                      |
| Electrodes   | ELCT2-16B                                                                               |

\*6:Please be aware the IATA regulation in case of shipping by air.



Please visit our web site!

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

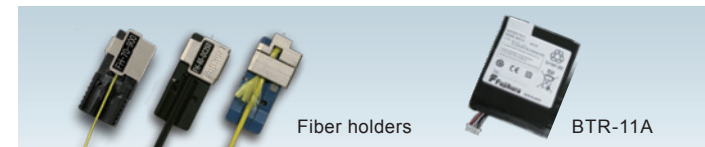
## ACCESSORIES

| Description           | Model No.                             |
|-----------------------|---------------------------------------|
| Fiber cleaver         | CT50 (for single to 12 ribbon fibers) |
| Single fiber stripper | SS01 (for single 250µm fiber)         |
| Protection sleeve     | FP-03 / FP-03 (L=40) and FPS01series  |

## STANDARD PACKAGE



## OPTIONAL ITEMS



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