

# Core Alignment Fusion Splicer 905

### Designed to keep you going





### **True Core Alignment**

#### 1. Core Alignment Technology

The 90S fusion splicer has high precision lenses which provide 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 90S possesses advanced image processing technology which analyzes the profile of the fiber image as a brightness pattern. The 90S finds the true core position and achieves the consistent lower splice loss.



Analyzing the Brightness pattern

#### **3. Fiber Discrimination Function**

The 90S fusion splicer automatically identifies the optimum arc discharge parameters in accordance with the fiber type.



### **Faster Automation**

The faster automated features of the 90S fusion splicer reduce installation times. With this splicer, an operator can complete the entire splicing process from splicing to heating without touching the 90S and only moving the fiber.









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.



Fiber retention clamp





70S

New 90S



## **User Friendly**

#### **1. Easy Fiber Protection Sleeve Positioning**

The shape of the sheath clamp is optimized for the 60mm length protection sleeve. The length from splice point to the edge of the sheath clamp is 30mm. Therefore, it is easy to center the protection sleeve over the splice by using your finger as the reference splice point.



#### 2. Carrying Case

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



### **User Friendly**

#### 3. 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

#### 4. Loose Tube Compatibility

The sheath clamp of the 90S fusion splicer is compatible with loose tube fiber. The Protrusion part on of the sheath clamp for loose tube fiber engages or retracts by simply changing the switch position with your finger.



### **Active Blade Management Technology**

#### **1. Automatic Blade Rotation**

The 90S 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 90S fusion splicer can connect to two CT50s simultaneously.



#### 2. Blade Life Management

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



## **Standard Package**

### 90S Standard Package



000	Qty
90S	1pc
BTR-15	1pc
ADC-20	1pc
ACC-14, 15, 16 or 17	1pc
USB-01	1pc
ST-02	1pc
ELCT2-16B	1pair
SP-03	1pair
CC-39	1pc
WT-09L	1pc
WT-09R	1pc
JP-09	1pc
TS-03	2pcs
ST-03	1pc
AP-02	1pc
QRG-02-E, C or J	1pc
SS03 or SS01	1pc
CT50	1pc
FDB-05	1pc
AD-10-M24	1pc
CC-37	1pc
HEX-01	1pc
	BTR-15           ADC-20           ACC-14, 15, 16 or 17           USB-01           ST-02           ELCT2-16B           SP-03           CC-39           WT-09L           JP-09           TS-03           ST-03           AP-02           QRG-02-E, C or J           SS03 or SS01           CT50           FDB-05           AD-10-M24           CC-37

Please follow IATA regulation when shipping the battery by air.

	(1)	(2)	(3)	(4)
(5)	(6) (6)		(8)	(9) (10) (11)
(12)	(13)	(14)	(115)	
	(1)	(2)	(3)	(4)

### Specifications





	m	Specification
Fiber alignment method		Active core alignment
Fiber count can be spliced		Single fiber
	Fiber type	Single mode optical fiber
Applicable fiber		Multi mode optical fiber
	Cladding dia.	80 to 150µm
Applicable coating	Sheath clamp	Coating dia. : Max. 3,000µm
Applicable coating	Oneath Gamp	Cleave length : 5 to 16mm *1
		ITU-T G.652 : Avg. 0.02dB
		ITU-T G.651 : Avg. 0.01dB
Fiber splice	Splice loss *2	ITU-T G.653 : Avg. 0.04dB
performance		ITU-T G.655 : Avg. 0.04dB
		ITU-T G.657 : Avg. 0.02dB
	Splice time *3	SM FAST mode : Avg. 7 to 9sec.
		AUTO mode : Avg. 14 to 16sec.
Applicable	Sleeve type	Heat shrinkable sleeve
protection	Sleeve length	Max. 66mm
sleeve	Sleeve dia.	Max. 6.0mm before shrinking
Sleeve heat	Heat time *4	60mm slim mode : Avg. 9 to 10sec.
performance	Heat time 4	60mm mode : Avg. 13 to 15sec.
Fiber tensile test force		Approx. 2.0N
Electrode life *5		Approx. 5,000 splices
	Dimensions W	Approx.170mm without projection
Physical	Dimensions D	Approx.173mm without projection
description	Dimensions H	Approx.150mm without projection
	Weight	Approx. 2.8kg including battery
	Temperature	Operate : -10 to 50 degreeC
	Temperature	Storage : -40 to 80 degreeC
Environmental	Humidity	Operate : 0 to 95%RH non-condensing
condition	Turniaity	Storage : 0 to 95%RH non-condensing
	Altitude	Max. 5,000m
AC adaptor	Input	AC100 to 240V, 50/60Hz, Max. 1.5A
AC adaptor	Input Type	AC100 to 240V, 50/60Hz, Max. 1.5A Rechargeable Lithium Ion
AC adaptor		Rechargeable Lithium Ion Approx. DC14.4V / 6,380mAh
AC adaptor Battery pack	Туре	Rechargeable Lithium Ion Approx. DC14.4V / 6,380mAh
	Type Output Capacity *6	Rechargeable Lithium Ion Approx. DC14.4V / 6,380mAh Approx. 300 splice and heat cycles Recharge : 0 to 30 degreeC
	Type Output Capacity *6 Temperature	Rechargeable Lithium Ion Approx. DC14.4V / 6,380mAh Approx. 300 splice and heat cycles Recharge : 0 to 30 degreeC Storage : -20 to 30 degreeC
	Type Output Capacity *6 Temperature Battery life *7	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles
Battery pack	Type Output Capacity *6 Temperature Battery life *7 LCD monitor	Rechargeable Lithium Ion Approx. DC14.4V / 6,380mAh Approx. 300 splice and heat cycles Recharge : 0 to 30 degreeC Storage : -20 to 30 degreeC
	Type Output Capacity *6 Temperature Battery life *7	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles
Battery pack	Type Output Capacity *6 Temperature Battery life *7 LCD monitor	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp
Battery pack Display	Type Output Capacity *6 Temperature Battery life *7 LCD monitor Magnification	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp         USB2.0 Mini B type
Battery pack Display Illumination	Type         Output         Capacity *6         Temperature         Battery life *7         LCD monitor         Magnification         V-grooves         PC         External	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED Iamp         USB2.0 Mini B type         USB2.0 A type
Battery pack Display	Type         Output         Capacity *6         Temperature         Battery life *7         LCD monitor         Magnification         V-grooves         PC	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp         USB2.0 Mini B type         USB2.0 A type         Approx. DC5V, 500mA
Battery pack Display Illumination	Type         Output         Capacity *6         Temperature         Battery life *7         LCD monitor         Magnification         V-grooves         PC         External         LED lamp	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp         USB2.0 Mini B type         USB2.0 A type         Approx. DC5V, 500mA         Mini DIN 6pin
Battery pack Display Illumination	Type Output Capacity *6 Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp         USB2.0 Min B type         USB2.0 A type         Approx. DC5V, 500mA         Mini DIN 6pin         DC12V, Max. 1A
Battery pack Display Illumination	Type         Output         Capacity *6         Temperature         Battery life *7         LCD monitor         Magnification         V-grooves         PC         External         LED lamp         Ribbon Stripper         Wireless *8	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp         USB2.0 Min B type         USB2.0 A type         Approx. DC5V, 500mA         Mini DIN 6pin         DC12V, Max. 1A         Bluetooth 4.1 LE
Battery pack Display Illumination Interface	Type         Output         Capacity *6         Temperature         Battery life *7         LCD monitor         Magnification         V-grooves         PC         External         LED lamp         Ribbon Stripper         Wireless *8         Splice mode	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp         USB2.0 Mini B type         USB2.0 A type         Approx. DC5V, 500mA         Mini DIN 6pin         DC12V, Max. 1A         Bluetooth 4.1 LE         100 splice modes
Battery pack Display Illumination	Type Output Capacity *6 Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp         USB2.0 Mini B type         USB2.0 A type         Approx. DC5V, 500mA         Mini DIN 6pin         DC12V, Max. 1A         Bluetooth 4.1 LE         100 splice modes         30 heat modes
Battery pack Display Illumination Interface	Type Output Capacity *6 Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp         USB2.0 Mini B type         USB2.0 A type         Approx. DC5V, 500mA         Mini DIN 6pin         DC12V, Max. 1A         Bluetooth 4.1 LE         100 splice modes         30 heat modes         20,000 splices
Battery pack Display Illumination Interface Data storage	Type Output Capacity *6 Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp         USB2.0 Mini B type         USB2.0 A type         Approx. DC5V, 500mA         Mini DIN 6pin         DC12V, Max. 1A         Bluetooth 4.1 LE         100 splice modes         30 heat modes         20,000 splices         100 images
Battery pack Display Illumination Interface	Type Output Capacity *6 Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp         USB2.0 Mini B type         USB2.0 A type         Approx. DC5V, 500mA         Mini DIN 6pin         DC12V, Max. 1A         Bluetooth 4.1 LE         100 splice modes         30 heat modes         20,000 splices         100 images         1/4-20UNC
Battery pack Display Illumination Interface Data storage	Type Output Capacity *6 Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp         USB2.0 Mini B type         USB2.0 A type         Approx. DC5V, 500mA         Mini DIN 6pin         DC12V, Max. 1A         Bluetooth 4.1 LE         100 splice modes         30 heat modes         20,000 splices         100 images         1/4-20UNC         Splice mode select
Battery pack Display Illumination Interface Data storage	Type Output Capacity *6 Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp         USB2.0 Mini B type         USB2.0 A type         Approx. DC5V, 500mA         Mini DIN 6pin         DC12V, Max. 1A         Bluetooth 4.1 LE         100 splice modes         30 heat modes         20,000 splices         104:-20UNC         Splice mode select         by fiber type analysis
Battery pack Display Illumination Interface Data storage	Type Output Capacity *6 Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result Splice image	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp         USB2.0 Mini B type         USB2.0 A type         Approx. DC5V, 500mA         Mini DIN 6pin         DC12V, Max. 1A         Bluetooth 4.1 LE         100 splice modes         20,000 splices         100 images         1/4-20UNC         Splice mode select         by fiber type analysis         Discharge power calibration
Battery pack Display Illumination Interface Data storage Screw hole for tripod	Type Output Capacity *6 Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result Splice image	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp         USB2.0 Mini B type         USB2.0 A type         Approx. DC5V, 500mA         Mini DIN 6pin         DC12V, Max. 1A         Bluetooth 4.1 LE         100 splice modes         30 heat modes         20,000 splices         100 images         1/4-20UNC         Splice mode select         by fiber type analysis         Discharge power calibration         Wind protector : open/close
Battery pack Display Illumination Interface Data storage Screw hole for tripod Other	Type Output Capacity *6 Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result Splice image	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp         USB2.0 Mini B type         USB2.0 A type         Approx. DC5V, 500mA         Mini DIN 6pin         DC12V, Max. 1A         Bluetooth 4.1 LE         100 splice modes         30 heat modes         20,000 splices         100 images         1/4-20UNC         Splice mode select         by fiber type analysis         Discharge power calibration         Wind protector : open/close         Sheath clamp : open
Battery pack Display Illumination Interface Data storage Screw hole for tripod	Type Output Capacity *6 Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result Splice image	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp         USB2.0 Mini B type         USB2.0 A type         Approx. DC5V, 500mA         Mini DIN 6pin         DC12V, Max. 1A         Bluetooth 4.1 LE         100 splice modes         30 heat modes         20,000 splices         1/4-20UNC         Splice mode select         by fiber type analysis         Discharge power calibration         Wind protector : open/close         Sheath clamp : open         Heater lid : open/close
Battery pack Display Illumination Interface Data storage Screw hole for tripod Other	Type Output Capacity *6 Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result Splice image	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp         USB2.0 Mini B type         USB2.0 A type         Approx. DC5V, 500mA         Mini DIN 6pin         DC12V, Max. 1A         Bluetooth 4.1 LE         100 splice modes         30 heat modes         20,000 splices         100 images         1/4-20UNC         Splice mode select         by fiber type analysis         Discharge power calibration         Wind protector : open/close         Sheath clamp : open         Heater Iid : open/close
Battery pack Display Illumination Interface Data storage Screw hole for tripod Other	Type Output Capacity *6 Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result Splice image Automatic functions Reference guide	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp         USB2.0 Mini B type         USB2.0 A type         Approx. DC5V, 500mA         Mini DIN 6pin         DC12V, Max. 1A         Bluetooth 4.1 LE         100 splice modes         30 heat modes         20,000 splices         100 images         1/4-20UNC         Splice mode select         by fiber type analysis         Discharge power calibration         Wind protector : open/close         Sheath clamp : open         Heater clamp : open/close         Video and PDF file stored in splicer
Battery pack Display Illumination Interface Data storage Screw hole for tripod Other	Type Output Capacity *6 Temperature Battery life *7 LCD monitor Magnification V-grooves PC External LED lamp Ribbon Stripper Wireless *8 Splice mode Heat mode Splice result Splice image	Rechargeable Lithium Ion         Approx. DC14.4V / 6,380mAh         Approx. 300 splice and heat cycles         Recharge : 0 to 30 degreeC         Storage : -20 to 30 degreeC         Approx. 500 recharge cycles         TFT 5 inches with touch screen         200 to 320x         LED lamp         USB2.0 Mini B type         USB2.0 A type         Approx. DC5V, 500mA         Mini DIN 6pin         DC12V, Max. 1A         Bluetooth 4.1 LE         100 splice modes         30 heat modes         20,000 splices         100 images         1/4-20UNC         Splice mode select         by fiber type analysis         Discharge power calibration         Wind protector : open/close         Sheath clamp : open         Heater Iid : open/close

#### **90S Options**

Item	Model	Remark
Battery pack*9	BTR-15	Battery pack for replacement
Electrodes	ELCT2-16B	Electrodes for replacement
	FH-70-250	250µm coating diameter
Fiber holder	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
	DCC-20	Car cigar socket to BTR-15/DCA-03
DC power cord	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
	FP-03	60mm Max. 900µm coating diameter
Protection sleeve	FP-03(L=40)	40mm Max. 900µm coating diameter
	FP-03M	FP-03 with non-magnetic material

#### Notes

- \*1: Cleave length range depending on fiber type
  - 5 to 16mm : 125µm cladding dia. / 250µm coating dia.
  - 10 to 16mm : 125 $\mu m$  cladding dia. / 400 or 900 $\mu m$  coating dia.
  - 5 to 10mm : 80µm cladding dia. / 160µm coating dia.
- \*2: 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.
- \*3: 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.
- \*4: 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.
- \*5: The electrode life changes depending on the environmental conditions, fiber type and splice modes.
- \*6: Test condition
  - (1) Splice and heat time : 2 minutes cycle
  - (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.

- \*7: 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.
- \*8: Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.
- \*9: Please follow IATA regulation when shipping the battery by air.

### **Specifications**

#### SS01/03 Specifications



Item	SS01	SS03
1) Stripping coating dia.	250um	250um
Fiber dia. after stripping	125um cladding	125um cladding
<ol><li>Stripping coating dia.</li></ol>	None	900um
Fiber dia. after stripping	None	250um coating
<ol><li>Stripping coating dia.</li></ol>	None	2000 to 3000um
Fiber dia. after stripping	None	900um coating
Dimension	Approx. 164 x 45 x 5mr	n
Weight	Approx. 100g	



#### **CT50 Specifications**

Item		Specifications
inem in		Single mode optical fiber
Applicable fiber	Fiber type	Multi mode optical fiber
	Fiber count	Up to 16 fiber ribbon
	Cladding dia.	Approx. 125um
Applicable	Eibar plata	AD-10-M24 : Max. 900µm coating diameter
Applicable coating	Fiber plate	AD-50 : Max. 3mm coating diameter
coating	Fiber holder	Coating shape. : Refer to splicer options
		AD-10-M24 : 5 to 20mm *1
		AD-50 [CD : coating diameter]
	Fiber plate	CD= 250µm or less : 5 to 20mm *1
Cleave length		250μm < CD < 1000μm : 10 to 20mm
		1000µm < CD < 3mm : 14 to 20mm
	Fiber holder	Approx. 10mm
Cleave angle *2	Single fiber	Avg. 0.3 to 0.9 degrees
Cleave angle E	Fiber ribbon	Avg. 0.3 to 1.2 degrees
Blade life *3		Approx. 60,000 fiber cleaves
	Dimensions W	Approx. 120mm when closing the lever
Physical	Dimensions D	Approx. 95mm when closing the lever
description	Dimensions H	Approx. 58mm when closing the lever
accomption	Weight	Approx. 305g
	Weight	including battery and AD-10-M24
	Temperature	Operate : -10 to 50 degreeC
Environmental		Storage : -40 to 80 degreeC
condition	Humidity	Operate : 0 to 95% non-condensing
		Storage : 0 to 95% non-condensing
Battery		2 pieces of LR03/AAA dry battery
Wireless interface *4		Bluetooth 4.1 LE
Screw hole for tripod		1/4-20UNC
Other features	Blade rotation	Motorized rotation
		Manual rotation dial
	Replaceable	Blade
	parts	Clamp arm

#### Fiber Protection Sleeve Specifications



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

#### **CT50 Options**

Item	Model Name	Remark
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

#### Notes

- \*1: When the cleave length is from 5 to 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 5 to 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: Bluetooth® word mark and logos are the registered trademarks of Bluetooth SIG, Inc.



Please visit our web site!

https://www.fusionsplicer.fujikura.com

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