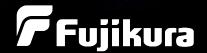


Core Alignment Fusion Splicer **865**

Designed to keep you going



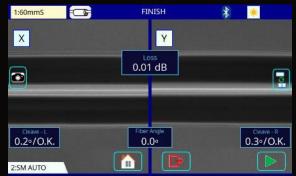


True Core Alignment

1. Core Alignment Technology

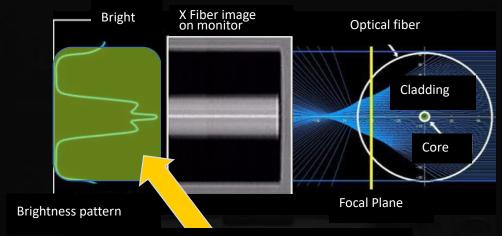
The 86S fusion splicer has high precision lenses which provide an accurate core to core alignment regardless of core-cladding concentricity error. Also, the lenses allow the splicer to discriminate between fiber types.





2. Advanced Image Processing Technology

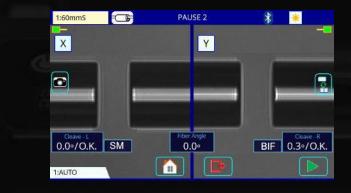
The 86S possesses advanced image processing technology which analyzes the profile of the fiber image as a brightness pattern. The 86S finds the true core position and achieves the consistent lower splice loss.



Analyzing the Brightness pattern

3. Fiber Discrimination Function

The 86S fusion splicer automatically identifies the optimum arc discharge parameters in accordance with the fiber type.





Faster Automation

The faster automated features of the 86S fusion splicer reduce installation times. With this splicer, an operator can complete the entire splicing process from splicing to heating without touching the 86S and only moving the fiber.

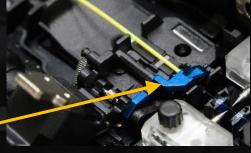






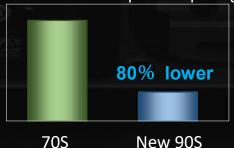


The fiber retention clamps support the automated operations. When the sheath clamps open automatically after splicing, the fiber retention clamps gently hold the spliced fiber to keep it from flying out. The retention clamps release when the fiber is lifted by the operator.

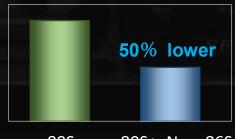


Fiber retention clamp

Time for opening wind protector and sheath clamp after splicing



Time for placing fiber into heater

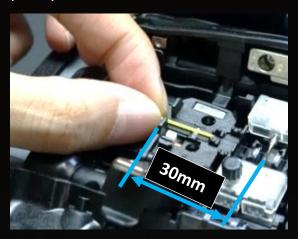


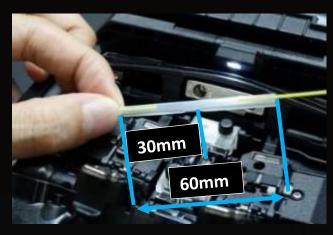
80S 80S+, New 86S

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

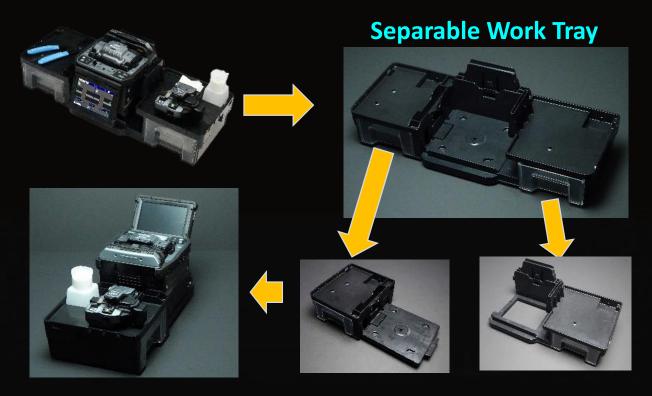
There are multiple ways to utilize the 86S carrying case. The 86S is ready to use just by opening the case, but it is also possible to use the 86S on top of the carrying case or only with the work tray depending on the work environment.



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 into two, so it is configurable to fit your work space.



Plenty of space in carrying case



Cleaver & Stripper



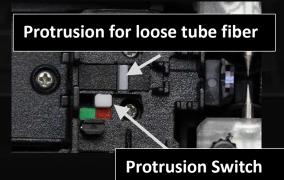
Battery packs



Large storage space under work tray

4. Loose Tube Compatibility

The sheath clamp of the 86S 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

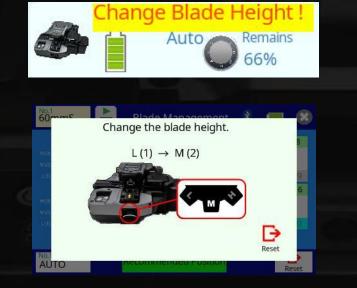
1. Automatic Blade Rotation

The 86S 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 86S fusion splicer can connect to two CT50s simultaneously.



2. Blade Life Management

The 86S 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

86S Standard Package



Description	Model No.	Qty
(1) Core Alignment Fusion Splicer	86S	1pc
(2) Battery Pack*	BTR-15	1pc
(3) AC Adapter	ADC-20	1pc
(4) AC Power Cord	ACC-14, 15, 16 or 17	1pc
(5) USB Cable	USB-01	1pc
(6) Fusion Splicer Strap	ST-02	1pc
(7) Electrodes (spare)	ELCT2-16B	1pair
(8) Fiber Holder Set Plate	SP-03	1pair
(9) Carrying Case	CC-39	1pc
(10) Work Tray Left	WT-09L	1pc
(11) Work Tray Right	WT-09R	1pc
(12) Work Tray J-Plate	JP-09	1pc
(13) Tripod Screw	TS-03	2pcs
(14) Carrying Case Strap	ST-03	1pc
(15) Alcohol Dispenser	AP-02	1pc
(16) Quick Reference Guide	QRG-02-E, C or J	1pc
(17) Single Fiber Stripper	SS03 or SS01	1pc
(18) Optical Fiber Cleaver	CT50	1pc
(19) Fiber Scrap Collector	FDB-05	1pc
(20) Fiber Setting Plate	AD-10-M24	1pc
(21) Case (for Cleaver)	CC-37	1pc
(22) Hexagonal Wrench	HEX-01	1pc
, , , ,	HEX-01	1pc

*Please follow IATA regulation in case of shipping the battery by air.









































Specifications

86S Specifications



Fiber count can be spliced Single fiber	Item		Specification
Fiber count can be spliced Fiber type Single fiber Single mode optical fiber Multi mode opti			
Applicable liber			Single fiber
Cladding dia.	A 1: 11 C1	Fiher type	Single mode optical fiber
Applicable coating	Applicable fiber	r iber type	
Cleave length : 5 to 16mm *1		Cladding dia.	80 to 150µm
Fiber splice performance Fiber splice splice specific splice spl	Applicable coating	Sheath clamp	Coating dia. : Max. 3,000µm
TitlorTig (851 : Avg. 0.01dB	7 tppilodbio ocating	Onodin olding	
Fiber splice performance Splice loss *2			
Deriformance		0 " 1 +0	
Splice time *3		Splice loss *2	
Splice time *3	репогтапсе		
Applicable Sleeve type Heat shrinkable sleeve Sleeve length Max. 66mm Sleeve length Max. 66mm Sleeve length Max. 60mm before shrinking Sloeve length Approx. 2.0N Sleeve length Approx. 5.000 splices Approx. 2.0N Approx. 150mm without projection Dimensions D Approx. 170mm without projection Approx. 150mm without projection Dimensions D Approx. 170mm without projection Approx. 150mm without projection Dimensions D Approx. 150mm without projection Approx. 150mm without projection Dimensions D Approx. 150mm without projection Approx. 150mm without projection Dimensions D Approx. 150mm without projection Approx. 150mm without projection Dimensions D Approx. 150mm without projection Storage : 40 to 80 degree C Storage : 0 to 95%RH non-condensing Approx. 150mm Approx. 15			
Applicable protection Sieeve length Max. 66mm Sieeve Sieeve length Max. 66mm Sieeve Sieeve length Max. 60mm Max. 60mm Sieeve Sieeve length Max. 60mm Sieve S		Splice time *3	SM FAST mode : Avg. 7 to 9sec.
Protection Sleeve length Max. 66mm Sleeve dia. Max. 6.0mm before shrinking Sleeve dia. Max. 6.0mm before shrinking Sleeve dia. 60mm slim mode: Avg. 9 to 10sec. 60mm mode: Avg. 13 to 15sec. 70mm without projection 70mm slim mode: Avg. 13 to 15sec. 70mm without projection 70mm slim mode: Avg. 13 to 15sec. 70mm without projection 70mm slim mode: Avg. 13 to 15sec. 70mm without projection 70mm slim mode: Avg. 13 to 15sec. 70mm without projection 70mm slim mode: Avg. 13 to 15sec. 70mm slim mode: Avg. 14 to 150 degree 70mm slim mode: Avg. 15 to 150 degree 70mm slim slim slim slim slim slim slim sl	A 12 11	0	
Sleeve Sleeve dia.			
Sleeve heat performance			
Derivation Commande Command			60mm alim made : Avg. 0 to 10ace
Piber tensile test force		Heat time *4	
Dimensions W Approx. 5,000 splices			
Dimensions W Approx.170mm without projection			
Dimensions D Approx.173mm without projection	Lieotrode lile 3	Dimensions W	Approx 170mm without projection
Dimensions H Approx. 150mm without projection Weight Approx. 2.8kg including battery Operate : -10 to 50 degreeC Storage : -40 to 80 degreeC Storage : -40 to 80 degreeC Operate : 0 to 95%RH non-condensing Storage : 0 to 95%RH non-condensing Storage : 0 to 95%RH non-condensing Altitude Max. 5,000m Action to 240V, 50/60Hz, Max. 1.5A Type Rechargeable Lithium Ion Output Approx. DC14.4V / 6,380mAh Capacity *6 Approx. 300 splice and heat cycles Recharge : 0 to 30 degreeC Storage : -20 to 30 degreeC Sto	Physical		
Weight			
Temperature			Approx. 2.8kg including battery
Storage : -40 to 80 degreeC			Operate : -10 to 50 degreeC
Storage : 0 to 95%RH non-condensing		remperature	Storage : -40 to 80 degreeC
Storage : 0 to 95%KH non-condensing Altitude Max. 5,000m		Humidity	Operate: 0 to 95%RH non-condensing
AC adaptor	condition	Humaity	Storage: 0 to 95%RH non-condensing
Type		Altitude	
Battery pack	AC adaptor		
Battery pack			Rechargeable Lithium Ion
Temperature			
Storage : -20 to 30 degreeC	вапегу раск	Capacity *6	
Battery life *7		Temperature	Recharge: 0 to 30 degreeC
Display		Pottory life *7	Approx. FOO recharge evelop
Magnification 200 to 320x			TET 5 inches with touch screen
Illumination	Display		
PC	Illumination		
Interface	a		USB2.0 Mini B type
LED lamp			USB2.0 A type
Ribbon Stripper	Interface		Approx. DC5V, 500mA
DC12V, Max. 1A		Ribbon Stripper	Mini DIN 6pin
Data storage			DC12V, Max. 1A
Data storage			
Splice result 20,000 splices			
Splice image 100 images	Data storage		
Screw hole for tripod Splice mode select by fiber type analysis Discharge power calibration Automatic functions features Reference guide Sheath clamp Splice mode select Sheath clamp Sheath clamp Splice mode select Sheath clamp Splice mode select Sheath clamp Sheath clamp Splice mode select Sp			
Splice mode select by fiber type analysis Discharge power calibration Wind protector : open/close functions features 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	Sorous holo for triped	Splice image	
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Heater clamp : open/close Reference guide Video and PDF file stored in splicer Sheath clamp Easy sleeve positioning clamp	features		
Reference guide Video and PDF file stored in splicer Sheath clamp Easy sleeve positioning clamp			
Sheath clamp Easy sleeve positioning clamp		Reference guide	
Electrode Replaceable without tool			
		Electrode	Replaceable without tool

86S Options

Item	Model	Remark
Battery pack*8	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 : 125 μ m cladding dia. / 250 μ m coating dia.

10 to 16mm : 125 μ m cladding dia. / 400 or 900 μ m coating dia.

5 to 10mm : $80\mu m$ cladding dia. / $160\mu m$ 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
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

Approx. 100g

Approx. 164 x 45 x 5mm

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

Dimension Weight



Item		Specifications
	Ethan toma	Single mode optical fiber
Applicable fiber	Fiber type	Multi mode optical fiber
	Fiber count	Up to 12 fiber ribbon
	Cladding dia.	Approx. 125um
Applicable	Fiber plate	AD-10-M24 : Max. 900µm coating diameter
coating	i ibei piate	AD-50 : Max. 3mm coating diameter
	Fiber holder	Coating shape. : Refer to splicer options
	Fiber plate	AD-10-M24 : 5 to 20mm *1
Cleave length	i ibci piate	AD-50 [CD : coating diameter]
		CD= 250µm or less : 5 to 20mm *1
		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 allyle 2	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
4000ptio	Weight	Approx. 305g
		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

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.





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https://www.fusionsplicer.fuiikura.com

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