ACTIVE BLADE MANAGEMENT technology

Core Alignment Fusion Splicer

88S

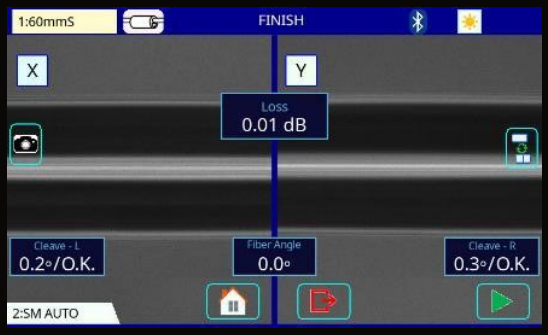
Designed to keep you going

Fujikura

True Core Alignment

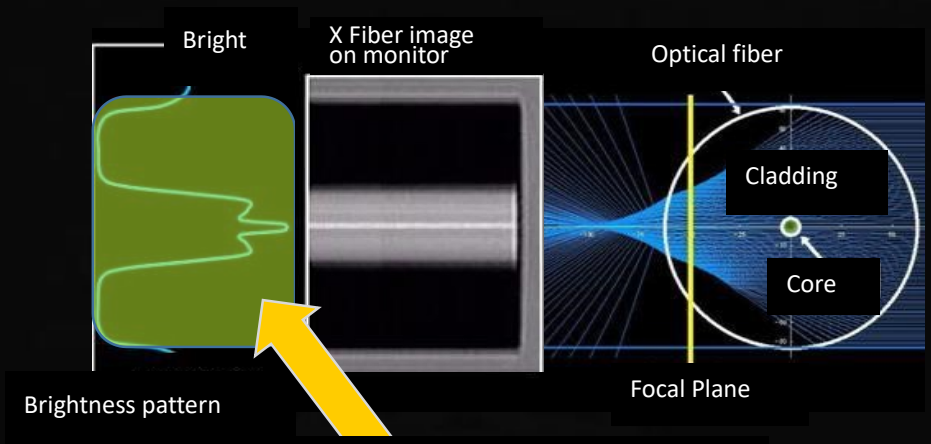
1. Core Alignment Technology

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

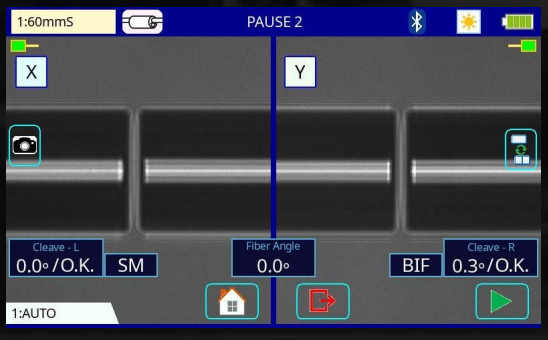
The 88S possesses advanced image processing technology which analyzes the profile of the fiber image as a brightness pattern. The 88S finds the true core position and achieves the consistent lower splice loss.

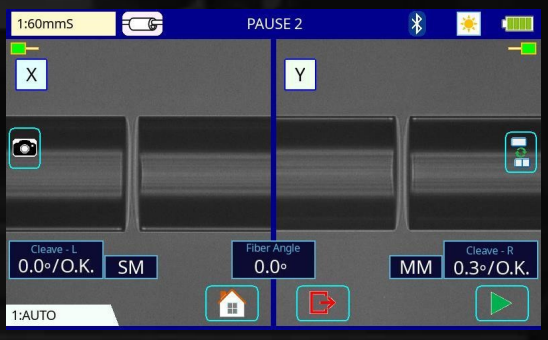


Analyzing the Brightness pattern

3. Fiber Discrimination Function

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





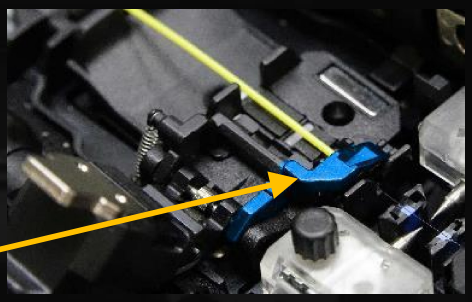
Faster Automation

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.

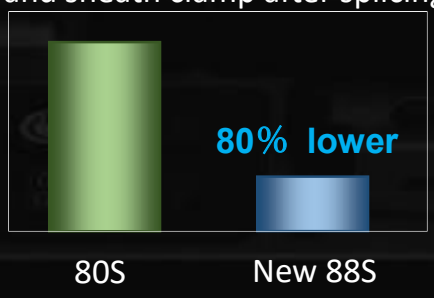
Wind protectors

Tube heater clamp

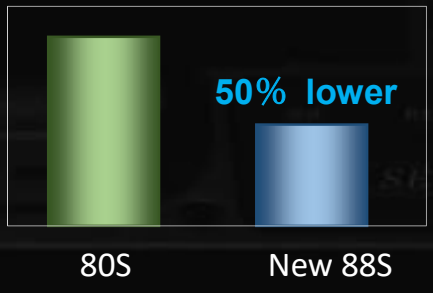
The fiber retention clamps support the automated operations. When the sheath clamps open automatically after splicing, the fiber retention clamps gently hold the spliced fiber to keep it from flying out. The retention clamps release when the fiber is lifted by the operator.



Time for opening wind protector and sheath clamp after splicing



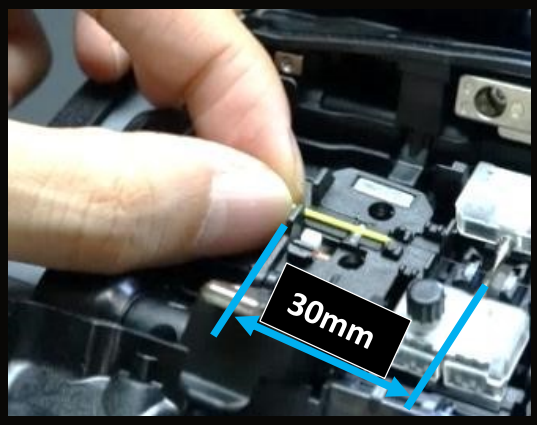
Time for placing fiber into heater

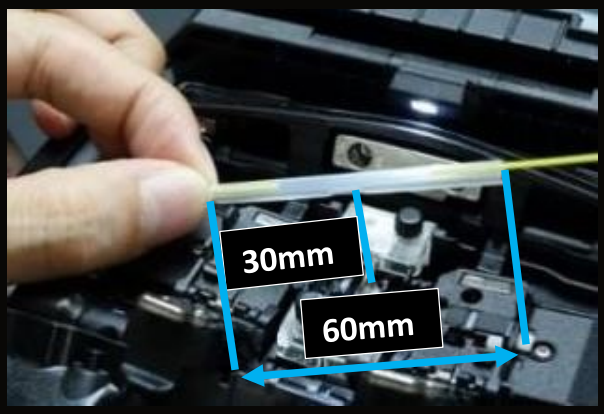


User Friendly

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.





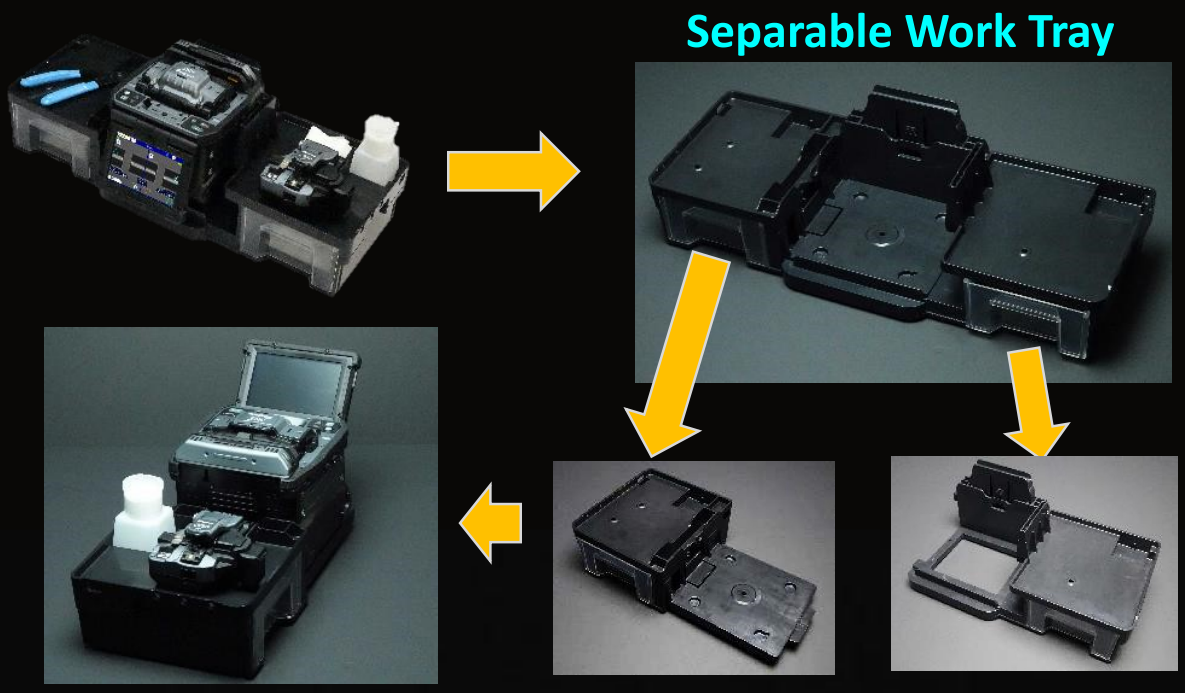
2. Carrying Case

There are multiple ways to utilize the 88S carrying case. The 88S is ready to use just by opening the case, but it is also possible to use the 88S on top of the carrying case or only with the work tray depending on the work environment.

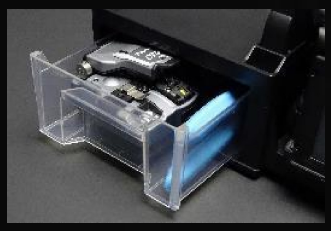
User Friendly

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



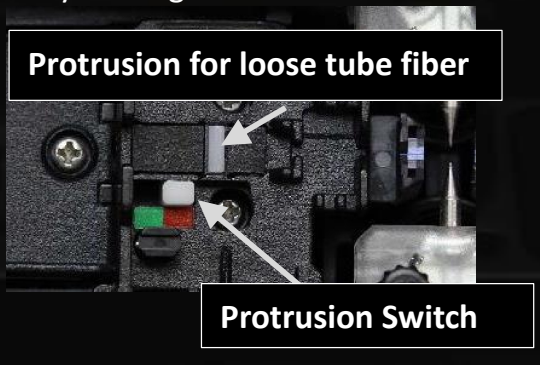
Cleaver & Stripper

Battery packs

Large storage space under work tray

4. Loose Tube Compatibility

The sheath clamp of the 88S 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.

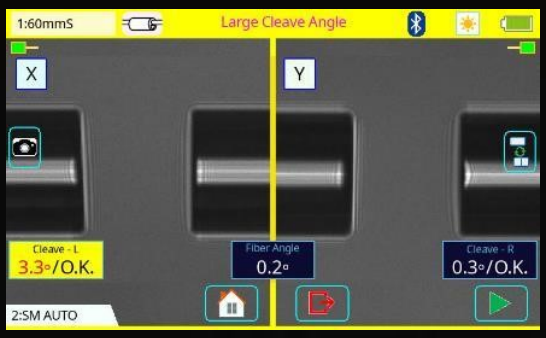


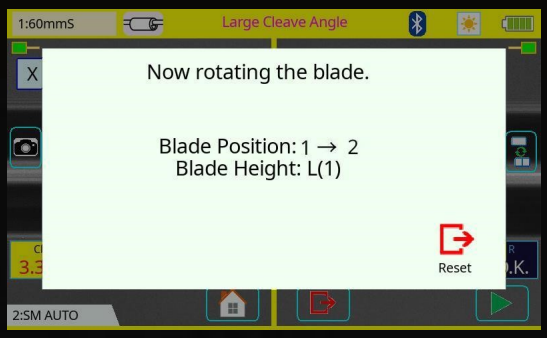
Active Blade Management Technology

1. Automatic Blade Rotation

The 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.

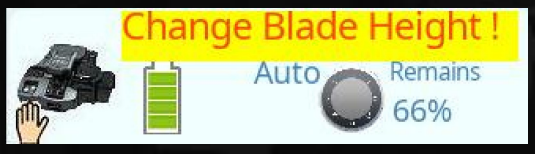
Motorized blade

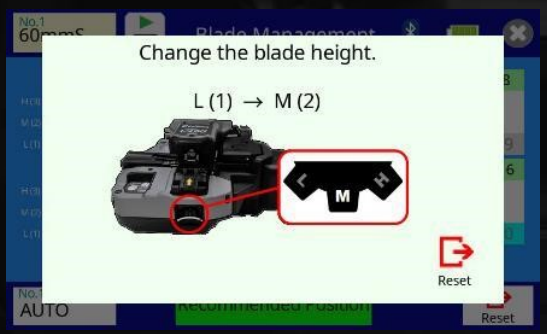




2. Blade Life Management

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.





Standard Package

88S Standard Package

Description	Model No.	Qty
(1) Core Alignment Fusion Splicer	88S	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

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

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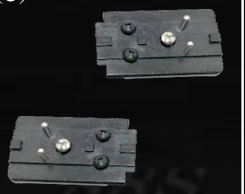

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Specifications

88S Specifications

Item		Specification
Fiber alignment method		Active core alignment
Fiber count can be spliced		Single fiber
Applicable fiber	Fiber type	Single mode optical fiber
		Multi mode optical fiber
	Cladding dia.	80 to 150μm
Applicable coating	Sheath clamp	Coating dia. : Max. 3,000μm
		Cleave length : 5 to 16mm *1
Fiber splice performance	Splice loss *2	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 *3	SM FAST mode : Avg. 7 to 9sec.
		AUTO mode : Avg. 14 to 16sec.
Applicable protection sleeve	Sleeve type	Heat shrinkable sleeve
	Sleeve length	Max. 66mm
	Sleeve dia.	Max. 6.0mm before shrinking
Sleeve heat performance	Heat time *4	60mm slim mode : Avg. 9 to 10sec.
		60mm mode : Avg. 13 to 15sec.
Fiber tensile test force		Approx. 2.0N
Electrode life *5		Approx. 5,000 splices
Physical description	Dimensions W	Approx.170mm without projection
	Dimensions D	Approx.173mm without projection
	Dimensions H	Approx.150mm without projection
	Weight	Approx. 2.8kg including battery
Environmental condition	Temperature	Operate : -10 to 50 degreeC
		Storage : -40 to 80 degreeC
	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 *6	Approx. 300 splice and heat cycles
	Temperature	Recharge : 0 to 40 degreeC
		Storage : -20 to 30 degreeC
	Battery life *7	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 *8	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
Screw hole for tripod		1/4-20UNC
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 Options

Item	Model	Remark
Battery pack*8	BTR-15	Battery pack for replacement
Electrodes	ELCT2-16B	Electrodes for replacement
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
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

Notes

*1: Cleave length range depending on fiber type
5 to 16mm : 125μm cladding dia. / 250μm coating dia.
10 to 16mm : 125μm cladding dia. / 400 or 900μm 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.