

Mass Fusion Splicer 88R12

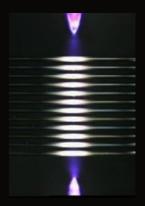
Designed to keep you going





Mass Fusion Technology

The 88R12 mass fusion splicer has a wide heating area for up to 12 fibers. The wide electrode gap melts the fibers uniformly and has real-time arc discharge control by analyzing the arc's brightnessintensity. The 88R12 does not have active core alignment mechanisms, however, during the discharge, fiber surface tension effects minimizepreexisting offsets.

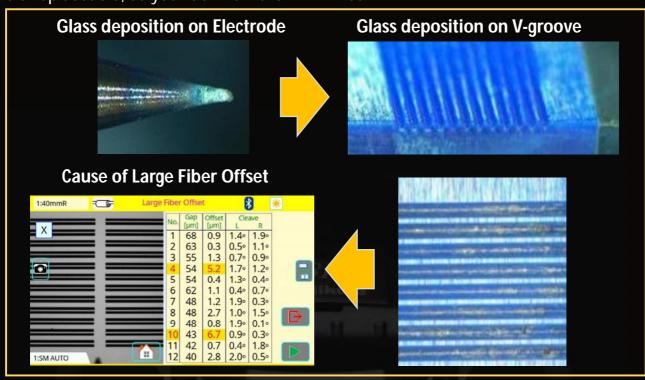


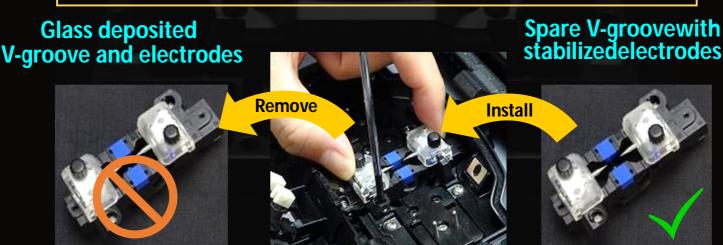
Analyzing arc power by observing the brightness intensity

Advanced Innovation

Replaceable V groove

The88R12 mass fusion splicerincludes aspare set of 12 fiber V-grooves with electrodes installed andready to splice as part of the standard package. These spare V-grooves are field replaceable, so your downtime is minimized.



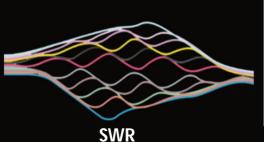


Universal Features

1. Universal Fiber Holder

The FH-70-12 fiber holder is compatible with many types of 12 fiber ribbon, such as 0.3mm or 0.4mm thick encapsulated ribbons and 200µm or 250µm coated Spider Web Ribbon (SWR). The 250 µm pitch V-groovesin the FH-70-12 fiber holder simplify SWR

loading and ribbon preparation.





250um coated SWR V-groove Surface 200µm coated SWR V-groove Surface

FH-70-12

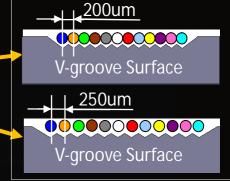
2. Pitch Conversion Fiber Holder

The pitch conversion fiber holder, FH-70-12PC, enables pitch conversion ofindividual 200µm coated fibersfrom a 200µm to 250µm pitch. The pitch converted 200µm fibers can now be loadedinthe 88R12 mass fusion splicer.



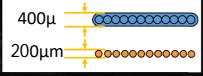
FH-70-12PC





3. Universal Ribbon Stripper

The RS series ribbon strippersare compatible with 200 µm to 400µm coated fiberswithout replacing the stripperblades.





Available thickness range

RS03

4. Universal Tube Heater

The 88R12 mass fusion splicer can accommodate amax6.0mmdiameter heat sleeve before shrinking. As a result, itsupports a wide range of protection sleeve sizes.



User Friendly

1. Automated Functionality

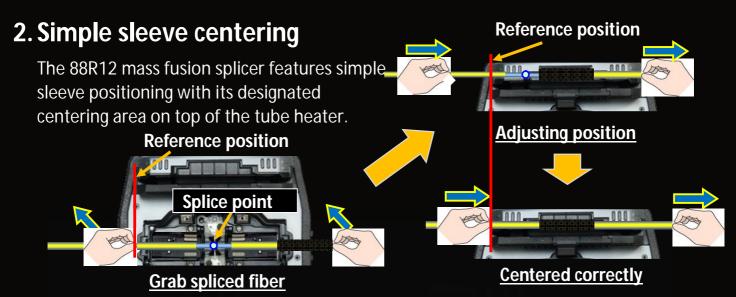
The automated wind protector and heater clamps support the operator in completing the entire splicing process with minimal manual steps.



Automated open-close Wind protector



Automated Tube heater clamp



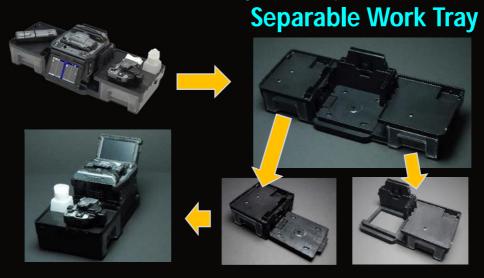
3. Carrying Case

There are multiple ways to utilize the 88R12 carrying case. The 88R12 is ready to use just by opening the case, but it is also possible to use the 88R12 on top of the carrying case or only with the work tray depending on the work environment.



4. 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







Battery packs



Large storage space under work tray

Active Blade ManagementTechnology

1. Automatic Blade Rotation

The 88R12 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 88R12 fusion splicer can connect to two CT50s and RS03 simultaneously.



2. Blade Life Management

The 88R12 fusion splicer displays the remaining blade life and informs the user when a blade height change, position change, or new blade is required.





3. Stripping Condition Control

When the user changes the splice mode, e.g. from 12 fiber ribbonsplice mode to SWR fiber splice mode, the ribbon stripper RS03 automatically changes its heating temperature and timewith a wireless command from the splicer.





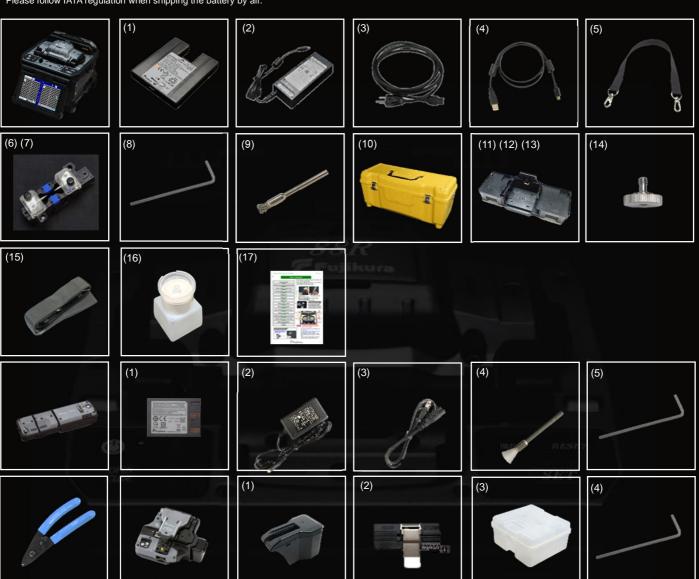
Heat to re changes in accordance with Splice mode

Standard Package

88R12 Standard package

Item	Model	Qty	
Mass Fusion Splicer	88R12	1 pc	
(1) Battery Pack *	BTR-15	1 pc	
(2)AC Adapter	ADC-20	1 pc	
(3)AC Power Cord	ACC-14, 15, 16 or 17	1 pc	
(4)USB Cable	USB-01	1 pc	
(5)Fusion Splicer Strap	ST-02	1 pc	
(6)Electrodes (on spare V-groove)	ELCT2-16B	1 pair	
(7)12 fiber V-groove (spare)	VG12-01	1 pc	
(8)Hexagonal Wrench	HEX-01	1 pc	
(9)V-groove Cleaning Brush	VCB-01	1 pc	
(10)Carrying Case	CC-39	1 pc	
(11) Work Tray Left	WT-09L	1 pc	
(12) Work Tray Right	WT-09R	1 pc	
(13) Work Tray J-Plate	JP-09	1 pc	
(14)Tripod Screw	TS-03	2 pcs	
(15)Carrying Case Strap	ST-03	1 pc	
(16)Alcohol Dispenser	AP-02	1 pc	
(17)Quick Reference Guide	QRG-03-E, C or J	1 pc	
Ribbon Fiber Stripper	RS03 or RS02	1 pc	
(1)Battery Pack *	BTR-12A	1 pc	
(2)AC Adapter	ADC-09A	1 pc	
(3)AC Power Cord	ACC-08, 09, 10, 11 or 12	1 pc	
(4)Blade Cleaning Brush	BRS-02	1 pc	
(5)Hexagonal Wrench	HEX-01	1 pc	
Single Fiber Stripper	SS03 or SS01	1 pc	
Optical Fiber Cleaver	CT50	1 pc	
(1)Fiber Scrap Collector	FDB-05	1 pc	
(2)Fiber Setting Plate	AD-10-M24	1 pc	
(3)Case	CC-37	1 pc	
(4)Hexagonal Wrench	HEX-01	1 pc	
*Please follow IATA regulation when shipping the battery by air.			





Specifications

99D12 Specifications



88R12 Specifications				
Ite	m	Specification		
Fiber alignment met	hod	Self cladding alignment		
		with melting surface tension		
Fiber count can be s	pliced	Up to 12 fiber ribbon		
Applicable fiber	Fiber type	Single mode optical fiber		
	i ibei type	Multi mode optical fiber		
IIDEI	Cladding dia.	Approx.125µm		
Applicablecoating	Fiber holder	Coating shape. : Refer to options		
7 ipplicablecodaling	T IDOI TIOIGOI	Cleave length: 10mm		
	i	ITU-T G.652 : Avg. 0.05dB		
	i	ITU-T G.651 : Avg. 0.02dB		
	Splice loss *1	ITU-T G.653 : Avg. 0.08dB		
Fiber splice		ITU-T G.655 : Avg. 0.08dB		
performance	i	ITU-T G.657 : Avg. 0.05dB		
	Splice time *2	SM FAST mode: Avg. 11 to 12sec.		
	opilice time 2	SM AUTO mode : Avg. 16 to 17sec.		
Applicable	Sleeve type	Heat shrinkable sleeve		
protection	Sleeve length	Max. 66mm		
sleeve	Sleeve dia.	Max. 6.0mm before shrinking		
		40mm FP-05 mode : Avg. 38 to 40sec.		
Sleeve heat	Heat time *3	40mm FP-04T mode : Avg. 17 to 19sec.		
performance	Trodit tilling 5	Single 40mm mode: Avg. 14 to 16sec.		
		Single 60mm mode: Avg. 13 to 15sec.		
Fiber tensile test for	ce	Approx. 2.0N		
Electrode life *4		Approx. 1,500 splices		
	Dimensions W	Approx.170mm without projection		
Physical description	Dimensions D	Approx.173mm without projection		
	Dimensions H	Approx.150mm without projection		
	Weight	Approx. 2.6kg including battery		
	Temperature Humidity	Operate : -10 to 50 degreeC		
Environmental		Storage: -40 to 80 degreeC		
condition		Operate: 0 to 95%RH non-condensing		
		Storage: 0 to 95%RH non-condensing		
	Altitude	Max. 3,700m		
AC adaptor	Input	AC100 to 240V, 50/60Hz, Max. 1.5A		
	Туре	Rechargeable Lithium Ion		
	Output	Approx. DC14.4V / 6,380mAh		
Dattamonalo	Capacity *5	Approx. 165 splice and heat cycles		
Battery pack	Temperature	Recharge: 0 to 40 degreeC		
		Storage : -20 to 30 degreeC		
	Battery life *6	Approx. 500 recharge cycles		
Display	LCD monitor	TFT 5 inches with touch screen		
,	Magnification	88R1212 : Approx. 20X : 12 ribbon to 60X : single		
	<u> </u>	88R124 : Approx. 60X		
Illumination	V-grooves	LED lamp		
Interface	PC	USB2.0 Mini B type		
	External	USB2.0 A type		
	LED lamp	Approx. DC5V, 500mA		
	RibbonStripper	Mini DIN 6pin		
		DC12V, Max. 1A		
	Wireless *7	Bluetooth 4.1 LE		
	Splice mode	100 splice modes		
Data storage	Heat mode	30 heat modes		
	Splice recult	00 000 !:		

20,000 splices

Discharge power calibration

Wind protector : open/close

Heater lid: open/close

Heater clamp : open/clos Reference guide Video and PDF file stored in splicer

Replaceable without tool

100 images

1/4-20UNC Splice mode select by fiber count analysis

88R12Options

Item	Model	Remark
Fiber holder	FH-70-250	250µm coating diameter
	FH-70-900	900µm coating diameter
	FH-70-2	2 fiber ribbon
	FH-70-4	4 fiber ribbon
	FH-70-8	8 fiber ribbon
	FH-70-12	12 fiber ribbon
	FH-70-12PC	Pitch conversion for 12 fiber ribbon
	FH-FC-20	900µm in 2mm diameter jacket
	FH-FC-30	900µm in 3mm diameter jacket
	FH-60-LT900	900µm loose buffer fiber
DC Adapter	DCA-03	Connect AC adapter not
		through battery
DC power cord	DCC-20	Car cigar socket to
		BTR15/DCA-03
	DCC-21	Car battery to BTR-15/DCA-03
	DCC-11	Splicer to ribbon stripper
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-04(T)	40mm up to 8 fiber ribbon
Frotection sieeve	FP-05	40mm up to 12

- *1: 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.
- *2: 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.

 *3: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
- *4: The electrode life changes depending on the environmental conditions, fiber type and splice modes.
- *5: Test condition
 - (1) Splice and heat time: 2 minutes cycle With 12 fiber ribbon and FP-05 sleeve
 - (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.
- *6: The battery capacity halves after approx. 500 discharge and recharge cycles. The battery life is shortened further when using outside of the storage temperature range, operating temperature range, or if completely discharged by storing for a long time without
- recharging.
 *7: Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.



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Splice result

Automatic

functions

Electrode

Screw hole for tripod

Other

features

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