



S123M Series ver.2 Friendly



Hand-Held Ribbon Fiber Fusion Splicer



SI23M ver.2 NEW Features

The S123M Series Hand-Held Ribbon Fiber Fusion Splicers have been enhanced and updated to version 2. The battery is automatically charged internally when connected to AC mains power even during operation. The new illumination lamp lights up a wide area around the V-grooves and helps operation in low light environment. The redesigned and strengthened heater simplifies the protection sleeve loading process.









Features and Applications

With their low profile design and light weight bodies the S123M series offer not only ribbon fiber splicing but also single fiber splicing with outstanding mobility and extreme ease-of-use. In addition, the rugged body is designed to endure harsh operating conditions by improving shock/impact resistance with rubber pads embedded on 4 corners of the splicer body. It achieves water resistance compliant IPX2 and dust resistance compliant IP5X.

The fast splice time and protection sleeve shrink time offers a highly efficient work environment. Large battery capacity makes it possible to perform 70 cycles of splicing and heating for S123M4 and 160 cycles for S123M8 and S123M12 with two batteries, while it offers SOC solution as well. By combining portability, ease-of-use, improved speed and durability, the S123M series become and excellent option for use in the conventional telecommunications industry.



PRODUCT LINE UP				
Model	Application			
S123M4-A	Single to 4 ribbon fiber (with Soft Case)			
S123M4-B	Single to 4 ribbon fiber (with Hard Case)			
S123M8	Single to 8 ribbon fiber			
S123M12	Single to 12 ribbon fiber			

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Key Features

- Internal battery charging
- Illumination lamp lights up a wide area around V-grooves
 - IP-52 Rugged and compact hand held design for demanding environmental conditions
 - Fast splice (15 sec) at low loss and Fast heating (36 sec) for ribbon fiber
 - Simple operation with Fixed V-groove
 - Splicer is compatible with the Seikoh Giken Splice-on-connector (9mm bare fiber SOC)
- 70 cycles (Splicing & heating) for S123M4 and 160 cycles for S123M8 and S123M12 with two batteries *2
- Available for All METRO/LAN/FTTx fibers including ultra bend-insensitive fibers (e.g. EZ-Bend)
- Easy maintenance Toolless electrode replacement/mirror free alignment system
- Up-and-down fiber clamp system allows automatic fiber re-positioning.
- Easy software upgrade via the Internet
- PC interface software to allow user manage splicing programs and results
- · Auto-start shrink sleeve oven feature
- Improved GUI to further enhance ease-of-use
 - RoHS compliant
 - *1 By using semi-auto mode for splicing and pre-heating mode for heating.
 - *2 By using semi-auto mode for splicing and regular mode for heating.







Under Tough Environment

S123M series passed criteria as below *3

Drop Resistance

76 cm drops from 5 different angles



Water Resistance
IPX2 rating drip proof *4



Dust Resistance



- *3 Above tests were performed at Furukawa Electric Labs, and do not guarantee that the machine will be undamaged under these conditions.
- *4 IPX2 rating drip proof means that the machine can be exposed to 3 mm/min drip from 4 different angles with 15° tilt for 2.5 min each and still functions.
- *5 IP5X rating dust proof means that the machine can be exposed to dust particles with a diameter of 0.1 to 25 μm for 8 hours and still functions.



SPECIFICATIONS					
Applicable Fibers	SM (ITU-T G.652), MM (ITU-T G.651), DSF (ITU-T G.653), NZD (ITU-T G.655), BIF/UBIF (Bend Insensitive Fiber ITU-T G.657)				
Cladding Diameter	125µm				
Coating Diameter	Single fiber: 250 to 900μm, Ribbon fiber: 280 to 400μm (thickness)				
Fibers Cleave Length	10 mm				
Average Splice Loss	SM: 0.05 dB, MM: 0.02 dB, DSF 0.08 dB, NZD 0.08 dB				
Splice Time	Single fiber: 15 seconds, Ribbon fiber: 15 seconds				
Heat Time	Ribbon fiber: 36 seconds*6 (S924: 40mm sleeve) (Pre-heat mode)				
Splice Programs	Max. 150				
Heat Programs	Max. 18				
Automatic Heating Start	Available				
Applicable Sleeves	40/60 mm				
Fiber Holding	Fiber holder System				
Tension Test	1.96 N				
Return Loss of Splice	60 dB or more				
Fiber Image Magnification	48X [S123M4], 28X [S123M8], 20X [S123M12]				
Splice Memory	Max.1500 [S123M4], Max.1000 [S123M8, S123M12]				
Image Capture Capacity	Last 100 images to be automatically captured + Up to 24 images to be stored permanently				
Dimension	S123M4	127W×199D×81H mm (not including shock absorber) 159W×231D×104H mm (including shock absorber)			
Dimension	S123M8, S123M12	127W×199D×105H mm (not including shock absorber) 159W×231D×130H mm (including shock absorber)			
	S123M4	1.4 kg (without battery), 1.6 kg (with battery)			
Weight	S123M8, S123M12	1.6 kg (without battery), 2.0 kg (with two batteries)			
Monitor	3.5" color LCD monitor				
Data Output	USB ver. 2.0 mini				
D-M O 14*7	Typical 70 splice/heat cycles with S943B battery (S123M4)				
Battery Capacity*7	Typical 160 splice/heat cycles with two S943B batteries (S123M8, S123M12)				
Wind Protection	Max. wind velocity of 15	m/s.			
Operating Temperature	-10 to 50°C (without exce	-10 to 50°C (without excessive humidity)			
Storage Temperature	-40 to 60°C (without excessive humidity)				
Humidity	0 to 95% RH (non-condensing)				
Power Source	AC input 100 to 240 V (50/60 Hz), DC Input 11 to 17 V without any change of hardware				
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^{*6} The first heating after turning on the power can be longer than usual heating time.

*7 The number of the splicing and heating the machine can produce using a full charged battery at room temperature of 20°C, semi-auto mode for splicing and regular mode for heating. Depending on the condition of the battery and the operation environment, the number can vary.

STANDARD PACKAGE								
Item	P/N	Quantity						
item		S123M4-A	S123M4-B	S123M8	S123M12			
S123M4 Main Body	S123-M4-A-0001	1	1	_				
2 S123M8 Main Body	S123-M8-A-0001	_	_	1				
3 S123M12 Main Body	S123-M12-A-0001	_	_	_	1			
Soft Carrying Case	SCC-01	1		_	_			
Hard Carrying Case	HCC-01	_	_	1	1			
Hard Carrying Case	HCC-02	_	1	_	_			
6 Battery Pack	S943B	1	1	1* ⁸	1*8			
Spare Electrodes	S969	1pair	1pair	1pair	1pair			
3 AC Adapter for S123 and S958C	S976A	1	1	1	1			
AC Cable Cord	_	1	1	1	1			
Electrode Sharpener	D5111	1	1	1	1			
Cleaning Brush	VGC-01	1	1	1	1			
10 Tool Case	TCC-01	1	1	1	1			
Fiber Reformer (4)	S122-X-A-0007	1pair	1pair	_	_			
• Fiber Reformer (8/12)	S122-X-A-0008	_	_	1pair	1pair			
User Manual	_	1	1	1	1			















^{*8 2}nd battery can be purchased as an optional item.



OPTIONAL COMPONENTS							
Item	P/N	Quantity					
Soft Carrying Case	SCC-01	1					
Battery Charger	S958C	1					
3 AC Adaptor for S958C	S977A	1					
Cooling Tray	CTX-01	1					
	AGS-01	1					
Working Belt	WBT-01	1					
9 USB Cable	USB-01	1					
3 Car Cigarette Cable	CDC-01	1					
Tripod Adaptor	TPA-01	1					
 Fiber Holder 250 μm coating diameter fiber 500 μm coating diameter fiber *9 900 μm coating diameter fiber 2 Ribbon Fiber Holder 4 Ribbon Fiber Holder 6 Ribbon Fiber Holder 8 Ribbon Fiber Holder 10 Ribbon Fiber Holder 12 Ribbon Fiber Holder 12 Ribbon Fiber Holder 12 Ribbon Fiber Holder 12 Ribbon Fiber Holder 10 Ribbon Fiber Holder 10 Ribbon Fiber Holder 12 Ribbon Fiber Holder 13 Ribbon Fiber (Left side) Loose Tube Fiber (Right side)	S712S-250 S712S-500 S712S-900 S712A-002 S712A-004 S712A-006 S712A-010 S712A-012 S712A-012 S712A-012W S712S-LT-L S712S-LT-R	1pair 1pair 1pair 1pair 1pair 1pair 1pair 1pair 1pair 1pair 1					
<for ferrule=""> Seikoh Giken FC/SC connector (9 mm) Seikoh Giken LC connector (9 mm) <for cordage=""> Seikoh Giken Cordage (9 mm)</for></for>	S712C-SGS9-L S712C-SGL9-L S712C-SGC9-R	1 1					
Fiber Transporter							
For S123M4	TRP-03	1					
For S123M8, S123M12	TRP-04	1					
Fiber Transporter Holders	TRH-01	1					
Smart Fuse Software Interface for Machine	SF-01	1					

^{*9} Used for 400 to 500 μ m coating diameter fiber.





Angled Stand in Action



® Fiber Transporter in Action



6 -1 Working Belt in Action



6 -2 Working Belt in Action

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