

S185HS/S185PM

Fusion Splicers for PMF and High Strength Splicing



S185HS



S185PM

Features and Benefits

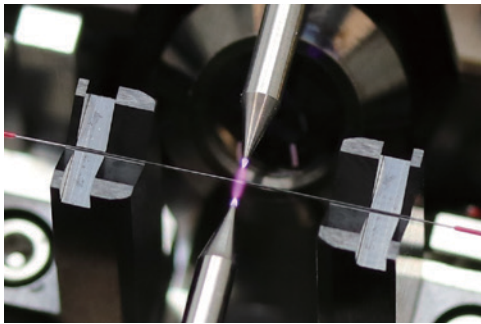
- Fusion Splicer for PMF splice and high strength splice
- Low splice loss
- Compact size
- Portability by built-in battery (Optional)
- Easy operation by LCD screen with touch panel
- Fiber clamp can be detached from canopy
- Remote control by Wi-Fi communication

Product Description

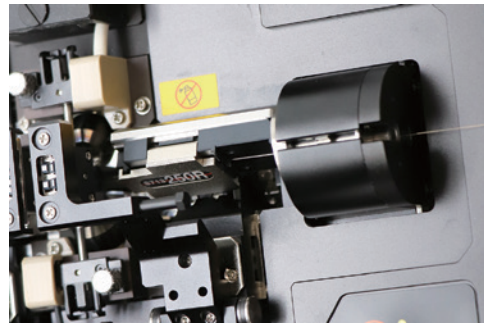
The FITEL S185HS / S185PM High-end Fusion Splicers are designed for splicing specialty fibers that are required for factory, manufacturing and R&D applications. The compact but powerful design has been optimized for use in the optical component and optical sensor fields. By targeting the necessary functions in these applications, exceptional performance in a compact design is achieved with these High-end Fusion Splicers.

FITEL[®]

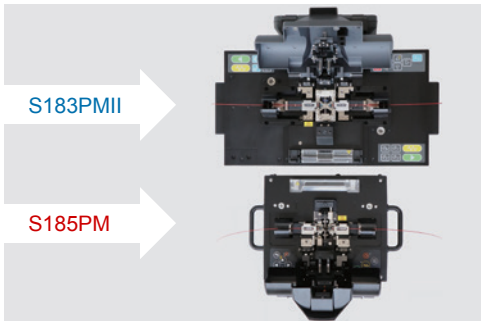
FUSION SPLICERS



Precise alignment with resolution of 0.03m for the fiber axis.



Accurate 360-degree fiber rotation with a resolution of .01 degree.



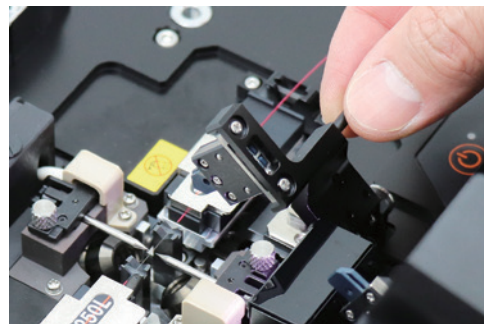
Footprint is 46% smaller than the previous model.



Battery operation and a compact design make transportation easy.



Easy and intuitive touch panel operation and GUI.



Releasing the fiber clamp links allow the fiber clamps to be placed without closing the canopy.



Automatically adjusts image when LCD display is flipped.



Remote control is available by Wi-Fi.

Specification

Description	S185HS		S185PM	
	Applicable fibers*1	SM, MM, DS, NZDS, High-Index, EDF		SM, MM, DS, NZDS, High-Index, EDF, PMF
Cladding diameter	80 to 150 μm			
Coating diameter	160 to 2000 μm (In Fiber holder) 160 to 900 μm (Coating clamp splice)		160 to 1300 μm (In Fiber holder) 160 to 900 μm (Coating clamp splice)	
Fiber cleave length	3 to 5 mm (Coating clamp splice) 8 to 11 mm (Cladding clamp splice)			
Typical splice loss*2	SM(ITU-T G652): 0.014 dB			
Typical extinction ratio*2	-		-36.8dB*3 (Angle offset: 0.6 degree)	
Return loss	>60dB			
Typical splice time*4	15s (SM by cladding clamp splice)		15s (SM by cladding clamp splice) 40s (cladding clamp splice)	
Tension strength	1.96 (+0% to +20%)			
Applicable protection sleeve length	10 to 60 mm			
Typical heat time	35s (S922:40 mm sleeve)			
Splice programs	Max.200			
Heater programs	Max.100			
Splice data storage	Max. 1000 including 4 images before and after splice			
Fiber image magnification on LCD	104X, 278X or 556X			
Dimension	210W x 180D x 140H mm			
Weight (without Battery)	4.5 kg		4.75 kg	
Monitor	4.3" wide color LCD with touch panel			
Data output	USB ver. 2.0 type A: 1 port USB ver. 2.0 mini B: 1 port			
Battery capacity (Optional)*5	Typical 60 splice / heat cycles			
Operating temperature	0 to 40 °C			
Storage temperature	-40 to 60 °C			
Humidity	0 to 90% (Non-condensing)			
Power source	AC input 100 to 240V (50/60Hz)			

*1 Fibers should be applied to ITU-T standard. In case of other fibers, depending on the type of fiber, the optimization of the splicing program may be needed or the splice result may not be satisfactory.

*2 These are references. Depending on the environment and conditions, the numbers may vary.

*3 Extinction ratio -36.8 dB is measured under conditions where the initial extinction ratio is -40dB and the splice has 0.6 degree of rotation offset.

*4 This value is a references. Depending on the type of fiber and condition of fiber on the splicer, the numbers may vary.

*5 This value can be produced using a fully-charged, brand new battery at room temperature of 20 degrees C. Depending on the condition of the battery and operating environment, the numbers may vary.

Standard Package

Item	P/N	Quantity							
		S185HS				S185PM			
		-00	-01	-10	-11	-00	-01	-10	-11
S185HS Main Body	S185HS-X-A-0001	1	1	1	1	-	-	-	-
S185PM Main Body	S185PM-X-A-0001	-	-	-	-	1	1	1	1
Hard Carrying Case	HCC-12	-	1	-	1	-	1	-	1
Built-in Battery Pack	S947B	-	-	1	1	-	-	1	1
AC Adapter	S981A	1	1	1	1	1	1	1	1
AC Cable Cord	-	1	1	1	1	1	1	1	1
Z Stage Lock	ZL-01	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair
Spare Electrode	ELR-03	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair
Electrode Sharpener	D5111	1	1	1	1	1	1	1	1
Cleaning Brush	VGC-01	1	1	1	1	1	1	1	1
User Manual	-	1	1	1	1	1	1	1	1



Standard Package (S185PM)

For additional information please contact your sales representative.

You can also visit our website at www.ofsoptics.com or call **1-888-fiberhelp** (1-888-342-3743) USA or **1-770-798-5555** outside the USA.

Fusion Splicer Customer Service, Training and Service Center
 Toll Free: 866-452-9516
 Phone: 678-783-1090
 Fax: 678-783-1093
 Email: splicers@ofsoptics.com

OFS Corporate Headquarters
 2000 Northeast Expressway
 Norcross, Georgia 30071, USA
 Toll Free: 888-Fiber-Help
 Intl. Phone: 770-798-5555

Ordering Number Form

S185 A - B C

Mark	Category	Code	Remark
A	Splicer model	HS	S185HS
		PM	S185PM
B	Battery	0	None
		1	Included
C	Hard carrying case	0	None
		1	Included



Hard Carrying Case

Optical Components

Item	P/N	Quantity
160 μm Coating Fiber Holder	S713S-160	1 pair
250 μm Coating Fiber Holder	S713S-250	1 pair
400 μm Coating Fiber Holder	S713S-400	1 pair
650 μm Coating Fiber Holder	S713S-650	1 pair
900 μm Coating Fiber Holder	S713S-900	1 pair
1300 μm Coating Fiber Holder	S713S-1300	1 pair
Customized Fiber Holder*6	S713S-XXX	1 pair
Hard Carrying Case	HCC-12	1
Built-in Battery Pack	S947B	1
USB Cable	USB-01	1
Wi-Fi Dongle	WFD-01	1



Fiber Holder

*6 Availability of a suitable size Fiber holder depends on the coating diameter of the fiber being spliced.

Related Tools

Item	Part Number	Specification
Stripper	S218R-Plus	Cladding diameter 125 μm only
	3SAE Thermal Stripper	Cladding diameter 30 to 1000 μm
Cleaver	S326S80	Cladding diameter 80 μm only
	S326A NorthLab ProCleave SD	Cladding diameter 125 to 230 μm
Cleaner	3SAE Ultrasonic Cleaner	-
Protection Sleeve	S921/S922	Coating diameter 900 μm or less
	S928A-20/25/35	Coating diameter 400 μm or less



Copyright © 2019 OFS Fitel, LLC.
 All rights reserved, printed in USA.

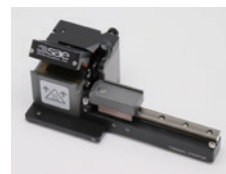
OFS Marketing Communications
 Doc ID: FITEL-NJ001 S185HS/S185PM
 Date: 02/19

FITEL is a registered trademark of Furukawa Denki Kogyo Kabushiki Kaisha
 DBA Furukawa Electric Co., Ltd.

Furukawa reserves the right to make changes to the prices and product(s) described in this document at any time without notice. This document is for informational purposes only and is not intended to modify or supplement any Furukawa warranties or specifications relating to any of its products or services.



S218R-Plus



3SAE Thermal Stripper



S326S80



S326A



NorthLab ProCleave



3SAE Ultrasonic Cleaner



Protection Sleeve

Export Control Regulations

The products and/or technical information presented in this publication may be subject to the application of the Foreign Exchange and Foreign Trade Act and other related laws and regulations in Japan. In addition, the Export Administration Regulations (EAR) of the United States may be applicable.

In cases where exporting or reexporting the products and/or technical information presented in this publication, customers are responsible for following the necessary procedures at their own risk and expense. Please contact the Ministry of Economy, Trade and Industry of Japan or the Department of Commerce of the United States for details about procedures.