FITEL

LASER COMPONENTS

FITEL
FUSION SPLICERS

FURUKAWA
ELECTRIC GROUP

High-end Fusion Splicer

S185HS/S185PM

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

The FITEL S185HS / S185PM High-end Fusion Splicers are designed for splicing specialty fibers that are required for factory, manufacturing and R&D. Especially, the design is specialized for the field in the optical components and optical sensor. By eliminating the excessive functions in these applications, the compact size is achieved comparing with the conventional High-end Fusion Splices.

FURUKAWA
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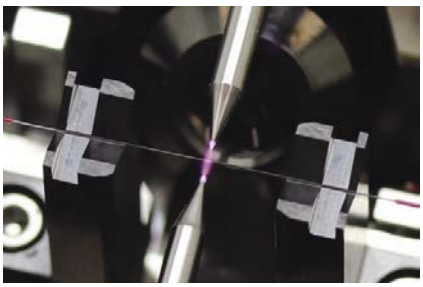
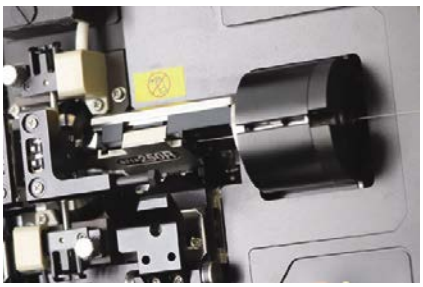
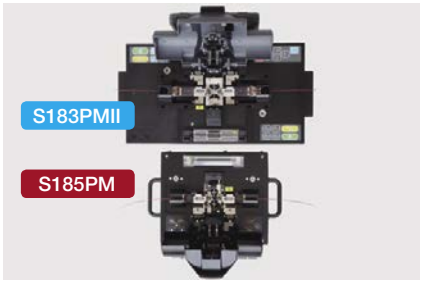
Features



Precise alignment with resolution of 0.03um for fiber axis.



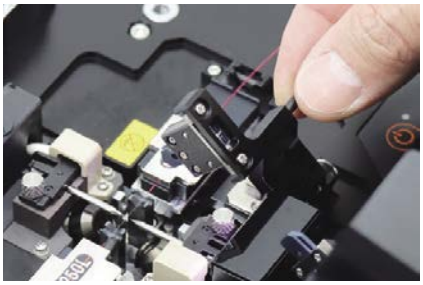
Precise alignment with resolution of 0.1 degree for 360 degree fiber rotation.



Footprint is 46% smaller than 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.

Remote control is available by Wi-Fi.

Automatically adjusts image when LCD display is flipped.

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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 150µm	
Coating diameter	160 to 2000µm (In Fiber holder) 160 to 900µm (Coating clamp splice)	160 to 1300µm (In Fiber holder) 160 to 900µm (Coating clamp splice)
Fiber cleave length	3 to 5mm (Coating clamp splice) 8 to 11mm (Cladding clamp splice)	
Typical splice loss*2	SM(ITU-T G652): 0.014dB	
Typical extinction ratio*2	–	PANDA: -36.8dB*3 (Angle offset: 0.6degree)
Return loss	>60dB	
Typical splice time*4	15s (SM by cladding clamp splice)	15s (SM by cladding clamp splice) 40s (PANDA by cladding clamp splice)
Tension strength	1.96 (+0% to +20%)	
Applicable protection sleeve length	10 to 60mm	
Typical heat time	35s (S922:40mm 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)	4.5kg	4.75kg
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 splice program may be needed or the splice result may not be satisfied.
*2 These are references. Depending on the environment and condition, the number vary.
*3 Extinction ratio -36.8dB is measured in the condition that the initial extinction ratio is -40dB and there is the splice with 0.6 degree of rotation offset.
*4 This value is references. Depending on the type of fiber and condition of fiber on splicer, the number can vary.
*5 This value can produce using fully charged brand new battery at room temperature 20 degree C. Depending on the condition of the battery and operation environment, the number can 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	1pair	1pair	1pair	1pair	1pair	1pair	1pair	1pair
Spare Electrode	ELR-03	1pair	1pair	1pair	1pair	1pair	1pair	1pair	1pair
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

Srtandard Package (S185PM)

Hard Carrying Case

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

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Optional components

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

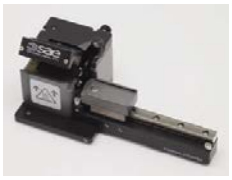
*6 Available Suitable size Fiber holder depending on the coating diameter of splicing fiber.

Fiber Holder

Related tools

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


S218R-Plus


3SAE Thermal Stripper


S326S80


S326A


NorthLab ProCleave


3SAE Ultrasonic Cleaner


Protection sleeve

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JE-229 3A2 TR100

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