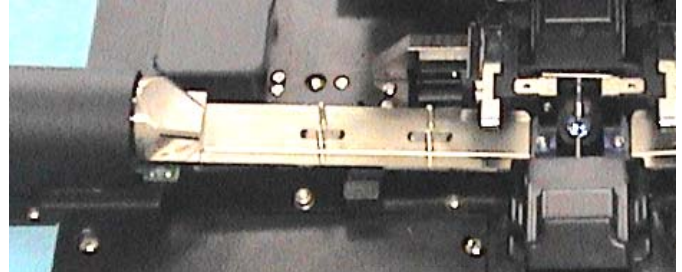
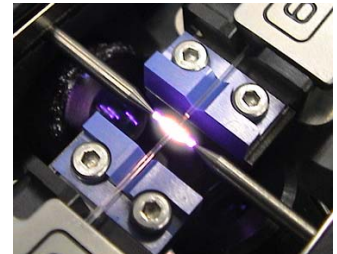


***PM Fiber Arc Fusion Splicer for Large Diameter Fiber  
FSM-45PM-LDF***

Fiber-holder-stage (Left)

400-125 $\mu$ m splicingHigh power arc discharge  
(Fibers are 400 $\mu$ m glass)

The FSM-45PM-LDF is designed for splicing of large diameter fibers.

The FSM-45PM-LDF is equipped with high power arc discharge unit and wide view CCD camera to perform large diameter fiber splicing. The FSM-45PM-LDF is modified based on FSM-45PM. All the functions of FSM-45PM, such as splicing capability for polarization maintaining fibers, are also available. In addition, longer fiber-holder-stages is newly introduced to minimize bending of LDF (Large Diameter Fiber), and for quality LDF splicing angle of fiber-holder-stage is reduced so LDF is set more horizontally to the v-grooves.

**Features:**

1. Specialized for LDF splicing up to 500 $\mu$ m cladding diameter.
2. High power arc discharge and wide view CCD camera.
3. Automatic theta alignment for polarization maintaining fibers.
4. Core-to-core fiber alignment system with PAS technology.
5. V- groove Driving System for various type of fiber diameter.
6. Short cleaved length splicing capability.
7. Splice loss estimation function.
8. Cross talk estimation function for polarization maintaining fiber splicing.
9. Sweep arc function for various kinds of dissimilar fiber splicing.
10. Power monitor feedback alignment capability with GP-IB interface.
11. USB terminal and serial port for PC communication.
12. Longer fiber-holder-stages to minimize bending of LDF.
13. Reduced fiber-holder-stage angle to set LDF more horizontally to the v-grooves.

SPECIFICATIONS	
Applicable fibers	Large diameter fiber, PM (PANDA, Bowtie), SM, MM, NZDS, DS
Fiber count	Single
Cladding diameter	125 $\mu$ m to 500 $\mu$ m
Coating diameter	150 $\mu$ m to 1,000 $\mu$ m
Fiber cleaved length	8mm to 10mm (standard), 3mm to 5mm (short cleaved length)
Actual average splice loss (with bare fiber clamping)	0.07dB with PANDA, 0.07dB with Bowtie at wavelength of 1310nm 0.03dB with SM, 0.02dB with MM, 0.05dB with DS
Average cross talk	-35dB with PANDA, -26dB with Bowtie (HB1500)
Splice time	35sec. with 400 $\mu$ m LDF, 45sec. with PANDA, 110sec with Bowtie, 20sec with SM, 40sec with DS
Return loss	>>60dB
Splicing modes	40 user programmeable modes and 120 database (factory predetermined setting)
Splice loss estimate	Available
Attenuation splice function	0.1dB to 25dB
Storage of splice result	The last 1,200 splices to be stored in the internal memory
Fiber display	X/Y, or X and Y simultaneously
Magnification	135x for single X or Y view, or 67x for X and Y view
Viewing method	Two CCD cameras and 5 inch TFT color LCD monitor
Operating condition	0 to 3,500m above sea level 0 to 95%RH and 0 to 40 degree C respectively
Mechanical proof test	2.45N
Tube heater	Built-in tube heater with 10 heating modes and 20 database area
Tube heat time	Typical 100sec with FP-03 protection sleeve Typical 70sec with series of micro sleeves
Applicable protection sleeve length	60mm, 40mm, and a series of micro sleeves
Power supply	Auto voltage selection from 100 to 240Va.c. with two ADC-10s
Terminals	USB 1.1 (type B) and RS232C for PC communication GP-IB port for power monitor feedback alignment Video terminal RCA video jack / NTSC
Wind protection	Max. wind velocity of 5m/s.
Dimensions	438W x 218D x 234H (mm) in operation
Weight	6.6kg without AC adapter

STANDARD PACKAGE		OPTIONAL ITEMS		
Arc fusion splicer	FSM-45PM-LDF	Fiber holder	FH-40-xxx	FH-40-150,180,210,250,300 350,400,500,600,700 800,900
Fiber holder	FH-40-250 FH-40-400		FH-40-LT900	for loose tube fiber
Fiber clamp	CLAMP-45-125 CLAMP-45-250 CLAMP-45-400 CLAMP-45-80/400	Fiber clamp	CLAMP-45-xxx	CLAMP-45-125,150,180,250 400,500,600,900
AC adapter (2pcs.)	ADC-10	Fiber cleaver	CT-32	for 125 $\mu$ m cladding fiber
AC power cord (2pcs.)	ACC-08~12	Cleaver spacer	SPA-40-CT-040 SPA-40-CT-050	for 9mm cleave length for 10mm cleave length
Carrying case with Z unit fixture	CC-05-45PM ZFIX-01	Thermal jacket stripper	HJS-02	for 125 $\mu$ m cladding fiber
Spare electrode	ELCT2-25	Jacket stripper	JS-02-900	for 900 $\mu$ m jacketing
Hexagonal wrench	HEX-01	Stripper spacer	SPA-40-HJS030	for short cleave length
Top plate rubber cap	CAP-01	External controller	CO-01	
Transfer holder	-	Note 1) Specifications and descriptions are subject to change without prior notice.		
Instruction manual	-	Note 2) The export of FSM-45PM-LDF is controlled under Foreign Exchange and Foreign Trade Law of Japan. Therefore, your order shall be subject to the approval of the Japanese Government.		

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