

Optical Fiber Arc Fusion Splicer FSM-45F

The FSM-45F is designed for splicing of single optical fibers for factory use.

The FSM-45F has PAS (Profile Alignment System) technology for core-to-core fiber alignment. Some unique functions are available, which enable splicing of various fibers such as dissimilar fiber, large diameter fiber, attenuation splicing and short cleaved length splicing.

The fiber holder system, which is exclusively designed for FSM-45F, provides easy handling of fiber during a series of splicing processes.

Features:

1. Core-to-core fiber alignment system with PAS technology.
2. Universal Fiber Clamp for the fiber with the diameter of 80 μ m to 400 μ m
3. V-groove Driving System for various kinds of splicing work.
4. Short cleaved length splicing capability.
5. Splice loss estimation function.
6. Sweep arc function for various kinds of dissimilar fiber splicing.
7. Power monitor feedback alignment capability with GP-IB interface.
8. USB terminal and serial port for PC communication.

SPECIFICATIONS	
Applicable fibers	SM, MM, NZDS, DS, Large diameter fiber, Reduced cladding fiber
Fiber count	Single
Cladding diameter	80 μ m to 400 μ m
Coating diameter	100 μ m to 1,000 μ m
Fiber cleaved length	8mm to 10mm (standard) 3mm to 5mm (short cleaved length)
Actual average splice loss	0.02dB with SM, 0.01dB with MM, 0.04dB with DS
Splice time	20sec with SM
Return loss	>>60dB
Splicing modes	40 user programmeble modes and 120 database area (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	270x for single X or Y view, or 135x 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 ADC-10
	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	311W x 218D x 234H (mm) in operation
Weight	5.5kg without AC adapter

STANDARD PACKAGE	
Arc fusion splicer	FSM-45F
Fiber holder	FH-40-250
Fiber clamp	CLAMP 45-80/400
AC adapter	ADC-10
AC power cord	ACC-08~12
Carrying case with Z unit fixture	CC-05-45F ZFIX-01
Spare electrode	ELCT1-25
Hexagonal wrench	HEX-01
Top plate rubber cap	CAP-01
Transfer holder	-
DC inlet cover	-
Instruction manual	-

OPTIONAL ITEMS		
Fiber holder	FH-40-150	
	FH-40-400	
	FH-40-600	
	FH-40-900	
Fiber clamp	CLAMP-45-600	
	CLAMP-45-900	
Fiber cleaver	CT-32	
	CT-38	for 80mm fiber
Cleaver spacer	SPA-40-CT-040	for 9mm cleave length
	SPA-40-CT-050	for 10mm cleave length
Thermal jacket stripper	HJS-02	
	HJS-02-80	for 80mm fiber
Jacket stripper	JS-02-900	for 900mm jacketing
Stripper spacer	SPA-40-HJS030	for short cleave length
External controller	CO-01	
