

特殊光ファイバー融着機

簡単で高効率・高精度
マルチコアファイバー、パンダファイバー、
楕円形光ファイバー、タイガーファイバーなど

Comcore PFS-500 & PFS-500S Universal PM Fiber Fusion Splicer

- Proprietary end-face imaging technology
- Applies for complicated PM fiber stress structures
- Capability of fusing various PM fiber combinations
- High precision fiber positioning and angular alignment
- Easy operation
- Minimum maintenance cost



Product Description

PFS-500 (S) Universal Polarization Maintaining (PM) Fiber Fusion Splicer is designed, developed, and manufactured by Comcore Optical Intelligence Technologies Co., Ltd. in Shanghai China. This innovative splicer crushes the traditional PM fiber fusion splicers' technical barrier. It divides the fiber polarization axis angular orientation positioning and the fiber fusion splicing functions into two independent units, which greatly simplifies the PM splicer's structure and makes it easy to operate and maintain. The PFS-500 (s) fusion splicer uses a more intuitive end-face imaging technology than the traditional side-view imaging method. The fiber end-face images are directly displayed with high-resolution and high optical magnification on a gridded monitor. Therefore, the end users can carry out the most critical angular positioning of the fiber polarization axis promptly with minimum efforts. The most significant advantage of PFS-500(s) is its capability of splicing various PM fiber combinations with identical or different stress structures, such as panda, elliptical core, I- type, and many others swiftly and precisely.

Polarization Axis Alignment Screen

- 400 times optical magnification
- High resolution camera

Splicing Unit

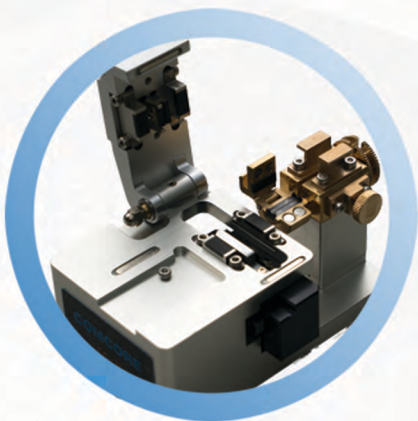
- 10 seconds fusion splicing
- 25 seconds heat shrinkage
- X/Y axis simultaneous display
- 300 times image magnification
- High performance electrodes
- Small unit volume and light weight
- USB automatic software upgrade

Fiber Angular Localizer

- End-face imaging technology
- Applicable to any PM fiber structure
- 30 dB polarization extinction ratio

Fiber Cleaver

- Integrated function
- Precise fiber length control



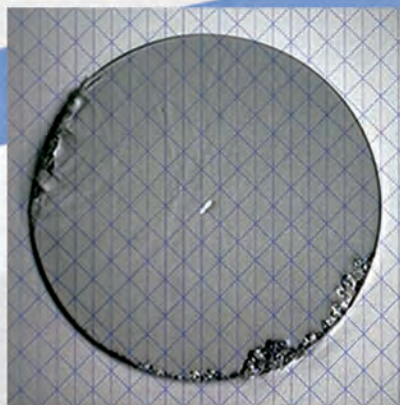
Main Technical Parameters					
No	Parameter	Unit	Specification		Note
1	Equipment Type	N/A	PM Fiber Fusion Splicer		
2	Equipment Model	N/A	PFS-500	PFS-500S	
3	Applicable Fibers	N/A	SM, MM, Panda, Bow-tie, I-type, Tiger, E-core, Elliptical cladding, Multicore, Micro-structured fiber		
4	Typical Splicing Loss	dB	0.05: identical fibers; 0.2: different fibers	0.1: identical fibers; 0.3: different fibers	Typical
5	Polarization Distinction Ratio	dB	>30		For linear PM fiber
6	Typical Time Required per Splicing	Sec	150		For skilled operators
7	Fiber Cladding Diameter	um	80-150	60-80	Position fiber with 40-60um cladding
8	Fiber Coating Diameter	um	100-400	100-250	
9	Shortest fusible pigtail length	mm	50		
10	Fiber End-face Image Magnification Factor	times	400		
11	Stripped Coating Length	mm	8-10		Standard
12	Splicing Data Storage Capacity	group	10000		
13	Optional	/	Download and edit fiber end-face image and measure fiber parameters		

Applicable Fiber Types

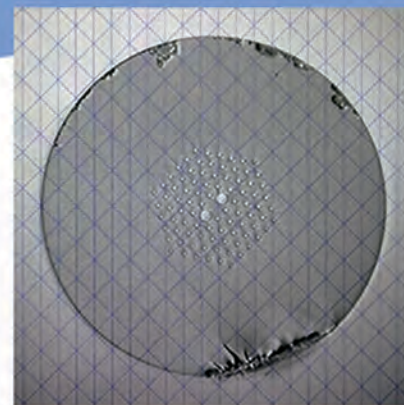
(including but not limited to)



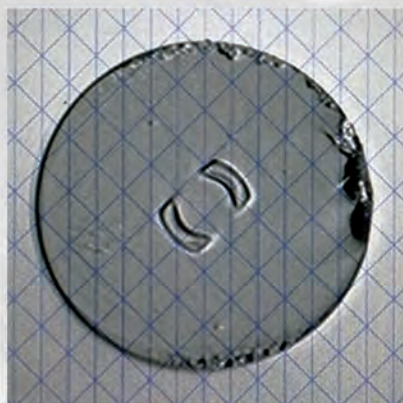
Panda fiber
(125 μm)



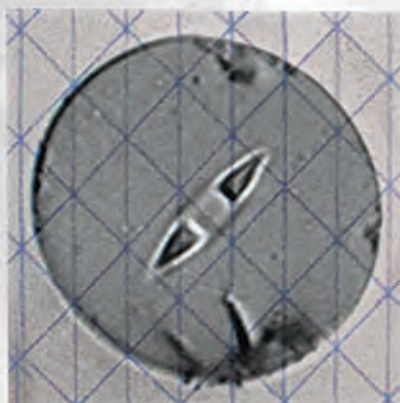
Elliptical core fiber
(125 μm)



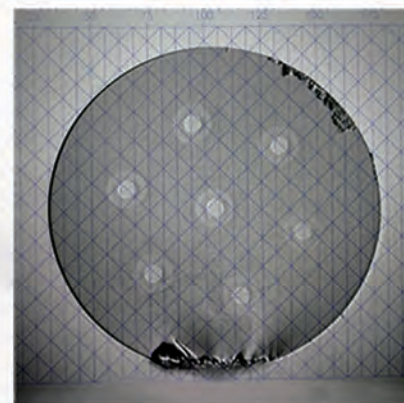
Phononic crystal fiber
(125 μm)



I – type fiber
(80 μm)



Tiger fiber
(60 μm)



Multi-core fiber
(150 μm)



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