

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. 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

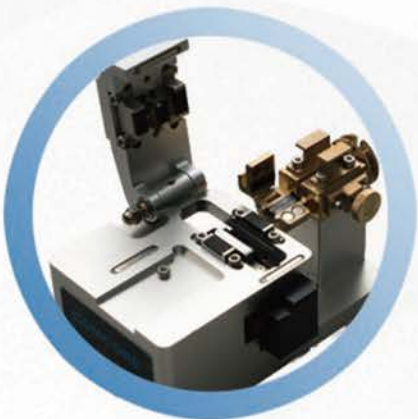
- 10 seconds fusion splicing
- 25 seconds heat shrinkage
- X/Y axis simultaneous display
- 300 times image magnification
- High performance electrodes
- Small unit volume and light weight
- USB automatic software upgrade

Fiber Angular Localizer

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

Fiber Cleaver

- Integrated function
- Precise fiber length control

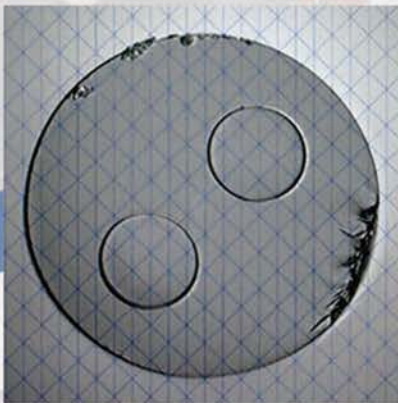


Main Technical Parameters

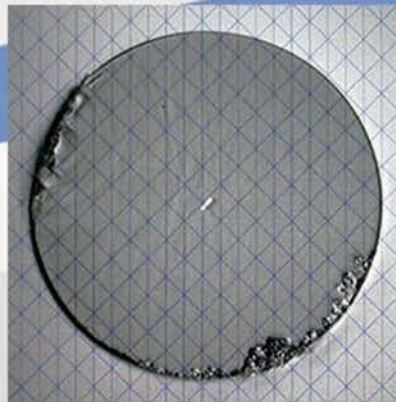
Parameter	Unit	PFS-500S	PFS-500	Note
Applicable Fibers	N/A	Circularly Symmetrical fiber, Panda fiber, Bow-tie fiber, I-type fiber, Elliptical core fiber, Pohotonic-crystal fiber, Multicore fiber, Polygonal fiber and etc.		Fiber with any structures
Typical Splicing Loss	dB	0.05		General Conditions
Typical Splicing Linear Polarization Crosstalk	dB	33		For linear PM fibers
Splicing Point Crosstalk Range	dB	30-40		For linear PM fibers
Typical Time of the Whole Splicing	Sec	150		
Bearable Tension of Splicing Point	Kpsi	>150		Before re-coating
Fiber Cladding Diameter	um	60-80	70-150	
Fiber Coating Diameter	um	100-165	135-400	
Fiber End-face Image Magnification Factor	Times	400		
Minimum Total Length of Fusion Splice without Coating	mm	10		
Minimum Pigtail Length to Sespliced	mm	60		
Splicing Data Storage Capacity	Group	10000	10000	
Fiber's End-face Imaging Processing (optional)	Connecting to a Laptop Via USB, the end Face Imaging of the Fiber Can be Directly Positioned, Measured, and it's Image Can be Stored.			

Applicable Fiber Types

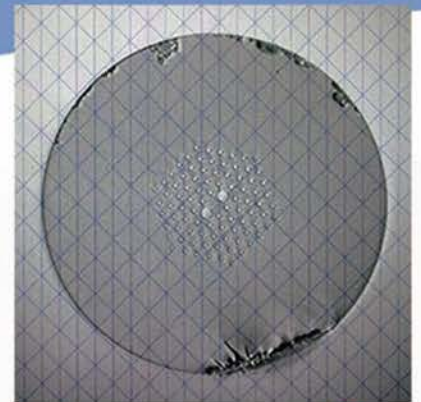
(including but not limited to)



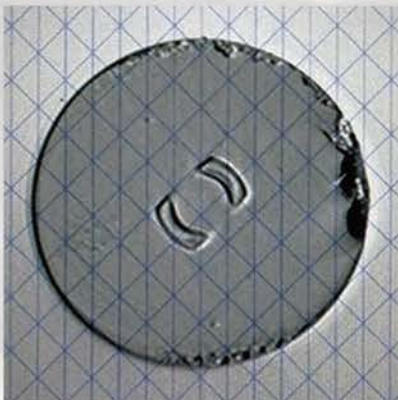
Panda fiber
(125 μm)



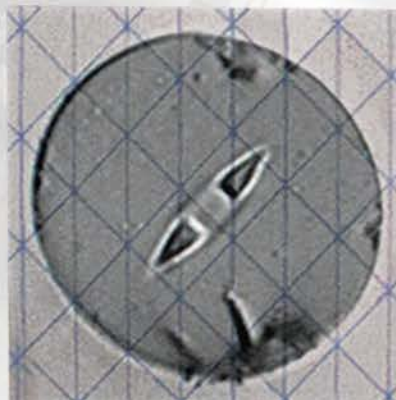
Elliptical core fiber
(125 μm)



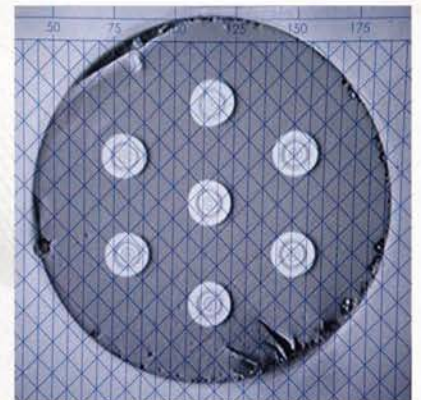
Photonic crystal fiber
(125 μm)



I - type fiber
(80 μm)



Tiger fiber
(60 μm)



Multi-core fiber
(150 μm)



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