



Polarization-Maintaining Large Diameter Fiber Splicer

- ✓ Low splicing loss
- ✓ High splicing quality
- ✓ AI-assisted touch screen
- ✓ Visual fiber and face imaging system
- ✓ PAS side identification

Product Description

This polarization-maintaining large diameter fiber splicer is designed and manufactured by Maxer Photonics. It features a stable arc, high splicing quality, and is optimized for polarization-maintaining fiber and large core fiber applications. The splicer adopts PAS side recognition and an advanced visual fiber and face imaging system, enabling easy observation of fiber cleaving quality, faster and more accurate fiber alignment, and reliable splicing of PMF. Multiple fiber holder specifications can be used to meet various fiber diameters and application requirements.

Technical Specifications

Parameters	Specifications
Application of Optical Fiber	Single mode / Multi-mode / Polarization-maintaining fiber
Left/Right Holder Motion Length	0–3 mm
Acceptable Size (coating)	< 1200 μm (Customize according to user needs)
Acceptable Size (cladding) of PMF & SMF	≤ 500 μm (Customize according to user needs)
Splicing Time	Ordinary fibers ≈ 18–20 s; PM fibers ≈ 70 s
Optical Fiber Splicing Loss	Ordinary fibers ≤ 0.03 dB; PM fibers ≤ 0.05 dB

Length of Heating Table	≤ 60 mm
Temperature of Heating Table	≤ 240 °C (Adjustable)
Splicing Mode	Manual splicing / Automatic splicing
Display Size	7.0 inch high resolution color LCD display
Optical Fiber Image Magnification	6×
CCD Field of View	644 × 483 (Customize according to user needs)
Alignment Mode	Cladding Alignment
Polarization-maintaining Fiber Imaging	Imaging of the left/right end faces
Polarization-maintaining Fiber Axis Mode	0° / 45° / 90°
Extinction Ratio	-30 dB
Splicing Procedure	Max 100 edit parameters
Working Environment	Temperature: 0–40 °C / Humidity: 5–95% RH
Power Supply	12 V / 5 A power adapter
Overall Dimensions (L × W × H)	353 × 273 × 209 mm
Weight	11.1 kg

Configuration and Type Selection

Product	Holder Selection
Polarization-Maintaining Large Diameter Fiber Splicer	250 / 400 / 550 / 600 / 900 / customization