

# Splicers

## Fusion

### Type-37 Micro-Core™ Alignment Fusion Splicer



#### Description:

The Type-37 Micro-Core splicer features the smallest foot print size in the world and is one of the lightest and fastest core alignment fusion splicers available today. The splicer's 75-second reinforcement sleeve heater cycle time is the lowest in the industry. A portable, fully-automatic, self-contained instrument for creating low-loss optical fiber splices in both field and factory environments, it is designed to work with virtually all fiber types including single-mode, multimode, dispersion shifted, and other specialty fiber.

The splicer automatically aligns a pair of optical fibers in both the X and Y (horizontal and vertical) planes and then fuses them together with heat from an electric arc to form a low-loss splice. HDCM (High-resolution Direct Core Monitoring) image processing software in the splicer is used to perform core alignment and estimates the splice loss. The operation requires 18 seconds or less, and the average splice loss is 0.02 decibels (dB) for identical single-mode fibers.

#### Specifications

<b>Alignment Method</b>	Core Alignment — High-resolution Direct Core Monitoring (HDCM)
<b>Fiber Requirement</b>	Silica Glass
<b>Profile Type</b>	SMF, MMF, NZ-DSF, CSF, Er-doped Fiber
<b>Cladding Diameter</b>	80 to 150µm
<b>Coating Diameter</b>	250 to 900µm
<b>Cleave Length</b>	9 to 16mm
<b>Typical Splice Loss, Identical Fibers</b>	SMF: 0.02dB MMF: 0.01dB NZ-DSF: 0.05dB
<b>No. of Fusion Condition Settings</b>	48 Total
<b>Splice Parameters</b>	5 Adjustable Parameters
<b>Arc Test Compensation</b>	Automatic
<b>No. of Heater Condition Settings</b>	10
<b>Menu Selection</b>	User Friendly Menus
<b>Typical Splice Cycle Time</b>	18 Seconds (set to loss estimate)
<b>Typical Heater Cycle Time</b>	75 Seconds
<b>Proof Test</b>	Standard, 200 Grams (0.44 lb)
<b>Splice Data Storage</b>	750 Splices (built-in memory)

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### Features:

- 18-second Average Splicing Cycle Time and 75-second Reinforcement Sleeve Heater Cycle Time
- Smallest Foot Print Size in the World, 150mm x 150mm (5.9" x 5.9")
- Simple Clamping Fiber Chucks Hold Up to 900 Micron Fiber
- Portable, Fully-Automatic Splicing With Loss Estimation
- Easy Menu Selection on a Large, High-Luminance 5.6" Color LCD

### Physical Characteristics

<b>Size</b>	150W x 150D x 150H mm (5.9W x 5.9D x 5.9H in)
<b>Weight</b>	3.9kg (8.6 lb)
<b>Power Requirement</b>	Input: 100 to 240V AC; 50/60Hz, 12V DC
<b>Display</b>	Low Glare, 5.6 inch Color LCD Monitor
<b>Wind Protection</b>	30 mph (15 m/s)
<b>Battery Operation</b>	40 Splices Including Protection Sleeve Heater Operation

### Ordering Information

Part Number	Description
<b>Type-37</b>	<ul style="list-style-type: none"> <li>• Type-37 Base Unit Fusion Splicer with Built-in Splicer Protection Sleeve Heater</li> <li>• Shipping Case</li> <li>• Spare Electrodes (ER-8)</li> <li>• AC Power Cord (PC-AC2)</li> <li>• V-Groove Brush (VGB-003-CR)</li> <li>• Operation Manual</li> <li>• Quick Guide</li> <li>• Cooling Tray</li> </ul>

Please see *Additional Accessories and Consumables*, page 70 for complementary products.