

Fiber Prep Unit II

Polyimide Window Stripper

The 3SAE Technologies Polyimide Fiber Preparation Unit II, FPU II, provides non-contact, chemical free window stripping and end stripping of polyimide-coated optical fibers in a small, affordable package.

The FPU II features 3SAE's patented Ring of Fire® Technology, which surrounds the fiber with uniform heat and controlled ionic conditions. This patented low temperature arc plasma process window strips or end strips polyimide-coated fibers quickly and cleanly without mechanical blades, acid or any other chemicals. The automated process provides consistent stripping results without requiring special operator skills.

The FPU II is adaptable to your process. Platforms for most fusion splicer fiber holders are available. Strip lengths are adjustable and easily programmable.



Application:

Polyimide Stripping: These tough coatings are difficult to remove without severely degrading the fiber's mechanical integrity. Other polyimide stripping technologies use mechanical blades or rapid thermal decomposition, which produces low tensile strength while leaving the fiber dirty. A more commonly used method, strong acid/alkali chemistry, is hazardous and produces toxic waste. The FPU II is powered by the 3SAE's patented Ring of Fire® pulsed plasma etching technology to remove polyimide coatings safely and cleanly. The standard FPU II accommodates a single fiber up to 1000um diameter, with appropriate fixtures.

User Interface:

The FPU II's control interface is accessed via the mounted LCD and Keypad. This interface provides operational status updates and provides the operator with advanced control of plasma characteristics, temperature and positioning. The operator can quickly and easily recall and store parameters in any one of up to 8 available recipe locations. This allows quick translations between fiber stripping programs.

Key Features:

- Chemical free fiber stripping and cleaning
- Compact bench top design
- Variable strip lengths from 2mm to 30mm
- Software adjustable parameters
- Available models that support Fitel, Fujikura, Ericsson fiber holders or use with 3SAE universal clamp

Technical Specifications:

- Dimensions: 190 (W) x 200 (D) x 140 (T) mm
- Weight: 4.3 kg
- Power Source: 100 - 240 V AC, 50-60 Hz
- Supported Fiber Types: 80 μ m - 1000 μ m polyimide coated*

*Appropriate fixturing required.

Product	Part number	Qty
FPU II Models		
FPU II, Polyimide Window Stripper - Generic Kit	FPU-10-0505	
FPU II, Polyimide Window Stripper - Fitel/Fuji Kit	FPU-10-0510	
FPU II, Polyimide Window Stripper - Ericsson Kit	FPU-10-0515	
Standard Package		
Power Supply	SPT-01-1243	1
Power Cord	FPU-02-0037	1
Tool Kit	FPU-06-0004	1
Spare Electrode	SPT-10-1638	3
User's Manual	N/A	1
Optional Components		
Electrode	SPT-10-1638	
Electrode Sharpening Wheel (Pack of 25)	SPT-10-0761	
3SAE Automatic Electrode Cleaner	ACC-01-0143	
Generic Platform	FPU-06-0065	
Fitel/AFL Platform	FPU-06-0066	
80 μ m Fiber Holder (left)	ACC-01-0064	
Custom Holders Upon Request		