

## AutoPrep II™

A Joint 3SAE/NYFORS Product

## Automated Strip • Clean • Cleave Fiber Preparation Unit



### *A Revolutionary New Product for Fiber Optic Splice Preparation.*

### Features:

- The AutoPrep II™ can automatically strip, clean and cleave a fiber in less than 12 seconds.
- The AutoPrep II™ is a fully automatic, high-speed fiber preparation unit designed for industrial applications, where accuracy, reliability and a high production yield is required.
- The fast cycle time of the AutoPrep II™ process will significantly increase manufacturing throughput.
- The AutoPrep II™ will increase manufacturing yield by eliminating operator variability of fiber preparation and by significantly lowering standard deviation.
- The AutoPrep II™ strip, clean and cleave process uses **NO STRIPPING BLADES** and **NO CHEMICALS**.
- The AutoPrep II™ strip, clean and cleave process leaves no visible, microscopic particles, residue or films on the prepared fiber surface.
- The strength of fibers prepared with the AutoPrep II™ prior to splicing are typically >600kpsi.
- The AutoPrep II™ can be automatically controlled from remote computers or control systems.
- The AutoPrep II™ is compatible with all brands of fusion splicers.

### General Information:

The AutoPrep II™ is developed to meet the Fiber Optic industry requirements of:

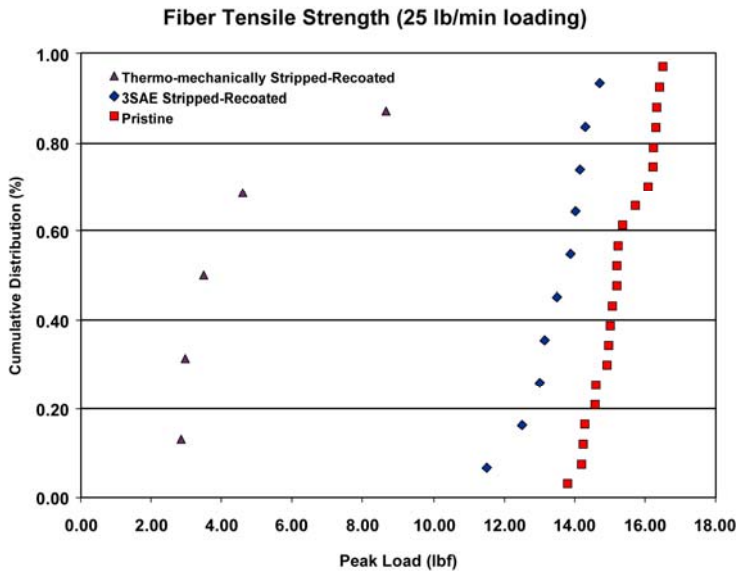
- **Compatibility with the following fusion splicers and fiber holders:**
  - Alcoa Fujikura
  - Ericsson
  - Fitel
  - Others upon request
- **Ultra fast fiber preparation**
- **Consistent fiber preparation**
- **Chemical free fiber preparation**
- **Extreme cleanliness of the prepared fiber**
- **Small compact design**
- **(334 (W) x 314 (D) x 200 (H) mm)**
- **High strength fiber splicing**  
(Typical: 280-300Kpsi)

For more information, please call (615) 778-8812.

Write or e-mail us at: 3SAE Technologies, Inc.  
318 Seaboard Lane., Suite 401  
Franklin, Tennessee 37067

Hours of Operation: Monday thru Friday  
8 am to 5 pm (CST)  
E-Mail: [info@3SAE.com](mailto:info@3SAE.com)  
Visit us on the Web: [www.3SAE.com](http://www.3SAE.com)

## Fiber Tensile Strength Testing Results:



Fiber tensile strength tests were performed by an independent testing laboratory, **Universal Instruments Advanced Process / Surface Mount Technology Laboratory in Binghamton, NY.**

The results of the independent testing are shown in the graph above. Manual thermo-mechanically prepared fibers show a strength which is much lower than the pristine optical fiber (about 150Kpsi). Fibers prepared with the AutoPrep II™ show a high strength (typically >600Kpsi).

## Technical Data:

<b>Fiber Coating</b>	160-400µm
<b>Fiber Cladding</b>	80-125µm (standard)
<b>Fiber Strength</b>	Typical > 45N (500+ Kpsi, 125µm fiber)
<b>Fiber Cleanliness</b>	Free of debris at 400x magnification
<b>Cleave Angle</b>	Typical < 0.5 degrees
<b>Cycle Time</b>	Typical < 12 seconds
<b>Power</b>	110-240 V, 47-63Hz
<b>Compressed Air</b>	External compressor, 6 Bar, 8mm instant push-in fitting
<b>Dimensions</b>	(334 (W) x 314 (D) x 200 (H) mm)
<b>Weight</b>	14.5 Kg
<b>PC Interface</b>	RS 232C

## AutoPrep II™ Utilizes Burst™ Technology...

The AutoPrep II™ is a product utilizing patented Burst™ Technology. The controlled hot air flow of the Burst™ Technology is a fast and chemical free fiber stripping process which cleans and removes the polymer coating from an optical fiber. Burst™ Technology instantly vaporizes the fiber's coating. The result is a perfectly stripped fiber. The stripped area is free of debris at 400x magnification and the strength of the stripped fiber is typically >600Kpsi.

An optimal cleave of the optical fiber is produced from a high precision fiber cleaver incorporated into the AutoPrep II™ the cleaver generates a typical cleave angle offset of less than 0.5 degrees.

The AutoPrep II™ has a user-friendly design. Guided fiber holders easily place the fiber in the correct position every time, and a "One Touch" go button starts the automatic preparation process.

To ensure high quality and repeatability, all critical processes for stripping, cleaning and cleaving are controlled by a built-in microprocessor.

The AutoPrep II™ is adapted for stand-alone use and is compatible with all of the world's leading fusion splicers.

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