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TECHNOLOGY GROUP

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The Wayback Machine - https://web.archive.org/web/20041102062004/http://www.3sae.com:80/autoprep.htm

3SAE TECHNOLOGIES, INC.

Automated Strip-Clean-Cleave Fiber Preparation Unit



The AutoPrep unit is compatible for use with all of the following fusion splicers:

- **Alcoa Fujikura**
- **Fitel / Furakawa**
- **Sumitomo**
- **Ericsson**
- **Siecor / Corning**
- **Aurora**

Preparation procedure

- The AutoPrep™ is on and ready
- Place the fiber into a fiber holder.
- Insert fiber holder into the AutoPrepä unit
- Press Go.
- The unit will automatically strip, clean and cleave the fiber
- Process complete

Splicing Highlights

When using the AutoPrep™ unit, splice results for all splicers tested show dramatic improvements in the following areas.

- Average tensile strength increase
- Standard deviations decrease
- Process yields increase
- Cycle times decrease

Splice Strength Yields Increased

99.9% yield at 200 Kpsi for the four major fusion splicers tested using the AutoPrepä process. Overall strength yields were improved as much as 70% at strengths of 250 Kpsi and 300 Kpsi.

Features and Benefits

- Chemical Free - No cleaning or stripping chemicals required
- Easy low maintenance bench top design
- Fiber remains stationary throughout entire process
- Fastest cycle time (~ 9 seconds)
- High 1st pass yield
- Compatible with all commercially available fusion splicers
- Accommodates all fiber diameters (80 / 250 / 400 / 900 mm)
- "ONE TOUCH" operation
- State of the art software (More Details)
- RS-232 interface
- Network capable
- Auto hot-sync data download
- Internal data point storage: 5000
- External data point storage: Unlimited
- Automatic fiber waste removal
- Window stripping capabilities

Strength Results

The burst process shows no appreciable loss of strength in the fiber.

Thousands of consecutive window strips

yield 99.9% results at near virgin strength (~ 700 Kpsi)

Cleanliness

At 800X magnification, the cleaned fiber is free of residue and debris.

Cleaver Module Testing Hundreds of consecutive cleaves were completed at a yield average of better than .5 degree cleave angle offset.

AutoPrep™ Flexible Software Solution (PDF)

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