FAS
FIBER AUTOMATED SYSTEM

Automated Manufacturing of Optical Fiber Components and Systems
The FAS-Automated Manufacturing

Current optoelectronic manufacturing methods are very labor intensive and require a high level of operator dexterity to perform repetitive precision operations. The industry must shift to efficient, cost-effective methods of manufacturing that produce high-yield, high-quality products at significantly reduced costs. Automation will be the key to making this transition, and Vytran is leading the way with the FAS – Fiber Automation System.

The FAS is a flexible automation platform that can be configured into a fully automated manufacturing system using various “toolbox” modules. All modules are fully programmable through a single machine interface that provides real-time process control and convenient network and database access.

One of the primary applications of the FAS has been in the automation of optical fiber fusion splicing. The FAS can be configured to fully automate this critical assembly task by utilizing modules for coating removal, fiber cleaving, fusion splicing, recoating and proof testing. The automated splice process is performed quickly and consistently in less than 2 minutes. Various auto-feeder options are available, including a pallet loading option that is ideal for EDFA assembly.

Many other optoelectronic manufacturing applications, such as fiber Bragg gratings, fused fiber couplers and fiber lensing, can also be automated with the FAS. It is simply a matter of reconfiguring or customizing toolbox modules. This flexibility ensures that the FAS can be efficiently transformed to accommodate changing production requirements.

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### Fiber Automation System Advantages
- Flexible Automation Platform
- Modular “Toolbox” Design
- Fully Automated Operation
- Fast Cycle Times / High Yields
- Easily Customized / Re-Configured / Serviced
- Real-Time Process Control
- Proven Vytran Technology
- Cost Effective Solution

### FAS Configuration & Modules
- FAS Automation Platform
- Pallet Load / Autofeeder
- TVV Decoater
- TMS Coating Stripper / Cleaner
- Fiber Cleaver
- Fusion Splicer
- PM Fiber / Rotary Alignment
- Recoater
- Fiber Proof Testing
- Visual Inspection
- Optical Measurement

### FAS Applications
- Fusion Splicing
- Fiber Bragg Gratings
- Coupler Manufacture
- Fiber Lensing
- Optical Assemblies
- Fiber Pigtailging
- Custom Applications

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