

## BUNDLE FIBER DRAW TOWER FOR ILLUMINATION APPLICATIONS

### Proven Technology

AEi's bundle fiber draw towers are in use today across many industry applications, including both high volume production as well as research and development oriented applications. AEi's experience from this broad installed base has resulted in a series of advanced standard designs for basic draw towers through very sophisticated systems with AEi available options.

### Flexibility and Quality for Maximized Productivity

- Optimized tower implementation with AEi's modular designs
- Keep costs lower by eliminating unnecessary elements
- Minimize downtime and increase production yield with AEi's robust designs and high-quality components
- Ability to create and save custom configurations, enabling quick tower setup changes for different-style fiber runs

### Proven Design Elements for Optimal Performance

- Servo-controlled preform down-feed and traverse
- AC inverter drive for drum, automatically controlled for diameter
- Up to four fibers drawn simultaneously for maximum production
- Highest speed operation for best yield and fiber bundle brightness using AEi fiber draw nose design

### Intuitive, Robust and Flexible Control

- Advanced PC control - optimized over many years of implementations
- Easily configure different draw profiles or recipes, allowing for automated changeover to produce different fiber styles
- Multiple password-protected permission levels, so operators can change only the parameters allowed
- Automated process data tracking log for maximum quality control
- Remote diagnostics via the web for effective service support



### Improve Your Fiber Drawing Performance Now

Built to order for optimal performance, AEi's bundle fiber draw towers are in operation in North America, Asia and Europe. Designed and built by AEi using a high degree of modularity, specific unit pricing is determined by manufacturing functions and features required by the customer application and the number of units ordered. For more information, or a quote to deliver and deploy our bundle fiber draw towers, call AEi at (978) 658-1000 or email us at [sales@aeiboston.com](mailto:sales@aeiboston.com)

## System Specifications

Tower Height	8 m to 9 m typical
Tower Footprint	5 m by 8 m typical, including free-standing mezzanine/staircase
Max Preform Length	1.2 m
Max Number of Preforms	4
Preform Diameter Range	25 mm to 35 mm
Max Furnace Temperature	1200 C, single or dual zone available
Draw Speed Range	Up to 30 m/sec
Drum Diameter	2.6 m or 3.25 m diameter, 0.6 m or 0.9 m width
Controls	FlexAuto™ PC controls with touch screen interface

### Automation Engineering Incorporated

Automation Engineering Incorporated (AEi) is a leading supplier of high-precision automation systems across the optoelectronics, medical devices, consumer products, aerospace/defense and other world-wide markets. AEi provides comprehensive design for manufacturing, process development, and pre-production build services in addition to complete turn-key automated manufacturing stations and lines. For more information, visit AEi's website: [www.aeiboston.com](http://www.aeiboston.com)