

# FiberForge™

## **All-in-One Component Workstation**

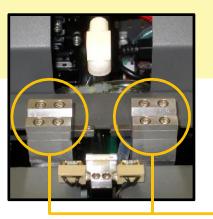
# Forging tools for fiber optics

Designed to minimize bench space and maximize utility, the FiberForge™ is a useful platform for research activities, new product development, and the manufacturing of both standard and novel fiber components. As new applications and markets emerge, there is a need for a versatile method of "forging" new tools.

User-friendly software provides customization of many parameters, allowing unique combinations of heating and pulling. Fiber diameters from  $80\mu m$  to  $400\mu m$  can be processed with the FiberForge<sup>TM</sup>, covering most fiber optic applications.

Lightel has over a decade of experience in the design and manufacture of coupler workstations for fused biconic taper (FBT) applications. Based on the proven technique of using a high temperature flame as the heating element, our equipment supports the production of commercialized telco and R&D

activities worldwide.





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### **Features**

- Unit controlled entirely by internal computer
- Vacuum chucks for fiber retention (80μm to 400 μm diameter each fiber)
- Comprehensive, versatile, user-friendly operating software

#### Specifications

General

Model number FF-280

Input AC 90-240V, 50/60Hz

Power consumption 100W Max (with 4 UV lamps on)

Dimensions 370.7mm(W) x 208.5mm(H) x 312.9mm(D) w/o windshield

External

Weight ~28 lb (12.5kg)

**Built-in Computer** 

Processor Genuine Intel ATOM

Memory 2GB DDR2

Storage SSD

Serial port (RS232/RS485) Up to 2, 1 occupied Video out Standard D-Sub

**Motors** 

LCD monitor

6 total for pulling, torch, and package movements respectively

Pulling length 40mm, maximum span 50mm

**Power Meter** 

Channels 2 channels standard, 3 optional

Detector wavelength range 800nm to 1700nm Large dynamic linear power range -70dBm to +5dBm

**Gas and Mass Flow Controller** 

Flow rate 0-300sccm Gas input 25-125psi

#### → Options

Oxygen							
Additional digital MFC and oxygen diffuser							
Vacuum Pump							
Power	DC24V, 3 channels, 250mA/ch, 750mA total						
UV Lamp							
UV source	UV LED						
UV wavelength	365nm (UVA)						
Channels	Up to 4 channels						
Hydrogen Generator							
H2 purity	>99.999%						
H2 flow rate	0-500 ml/min						