

FiberForge™

All-in-One Component Workstation

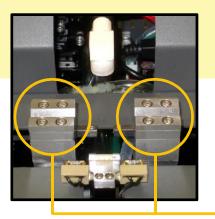
Forging tools for fiber optics

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 80µm to 400µm can be processed with the FiberForge™, 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

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

LCD monitor External

Motors

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



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