Fiber Optics

LIGHTEL

LASER COMPONENTS®

FiberForge™

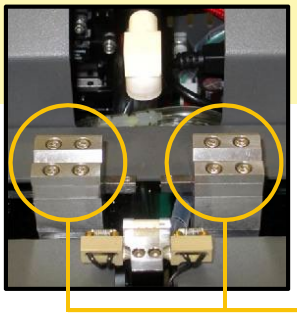
All-in-One Component Workstation

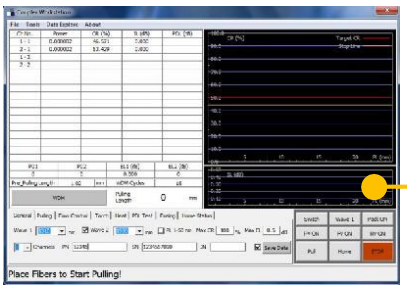
Forging tools for fiber optics

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.





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

Germany and Other Countries
Laser Components Germany GmbH
Tel: +49 8142 2864–0
Fax: +49 8142 2864–11
info@lasercomponents.com
www.lasercomponents.com

United Kingdom
Laser Components (UK) Ltd.
Tel: +44 1245 491 499
Fax: +44 1245 491 801
info@lasercomponents.co.uk
www.lasercomponents.co.uk

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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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