

Press release

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For All Fiber-Fusion Applications: New Coupler Workstation with Video Camera

Wessling, 21 July 2009 The Lightel CW-5000 workstation allows fabricating a wide range of fused fiber optic products, including bi-conical fused couplers, fiber tapers, and various fiber processing.

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Laser 2000 presents a versatile workstation for all fiber-fusion applications. Its flexible structure and intelligent automatic control make this workstation a highly useful machine for fiber-fusion related manufacturing and research.

Built-in microscope

The CW-5000 contains a compact microscope with 3 D motion for feeding, focusing & scanning; ideal for checking fiber cleanliness, fiber alignment, PM fiber orientation and other parameters. The 1.3 megapixel CMOS detector allows the capture of high resolution images. Included software readily saves captured images to a pre-designated folder. Digital zooming is available when needed.

Epoxy curing temperature monitor/Controller

The CW-5000 includes a 2-channel curing temperature controlling/monitoring system. Users can pre-program a defined epoxy curing temperature profile. The built-in thermocouples and the closed-loop feedback allow curing control, ensuring an optimized curing result.

Interchangeable Torch nozzle

A full line of hydrogen torch nozzles is available (from 3mm to 16mm). They can be easily interchanged. CW-5000 also offers an external Oxygen diffuser for achieving a higher temperature when needed; for example, when fusing multiple fibers or large-diameter fibers.

Configurations and applications

The modularized design of CW-5000 allows the machine highly flexible for different applications. Six Interchangeable platforms can cover most current fused fiber applications like singlemode, multimode or polarization maintaining couplers, fiber tapers or power combiners. Lightel can design/build custom workstations based on a customer's special requirements.

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