

Experienced and reliable



Innovative assembly and test solutions for a dynamic world

alfautomazione manufactures automated systems for the Optoelectronic Industry. Our systems include:

- Alignment and laser welding
- Component assembly
- Laser characterization
- Active-passive component test
- Burn-in.

Our design goals are:

- Low assembly and test cost
- High productivity and low labour process content
- A high level of quality assurance
- Seamless process integration.

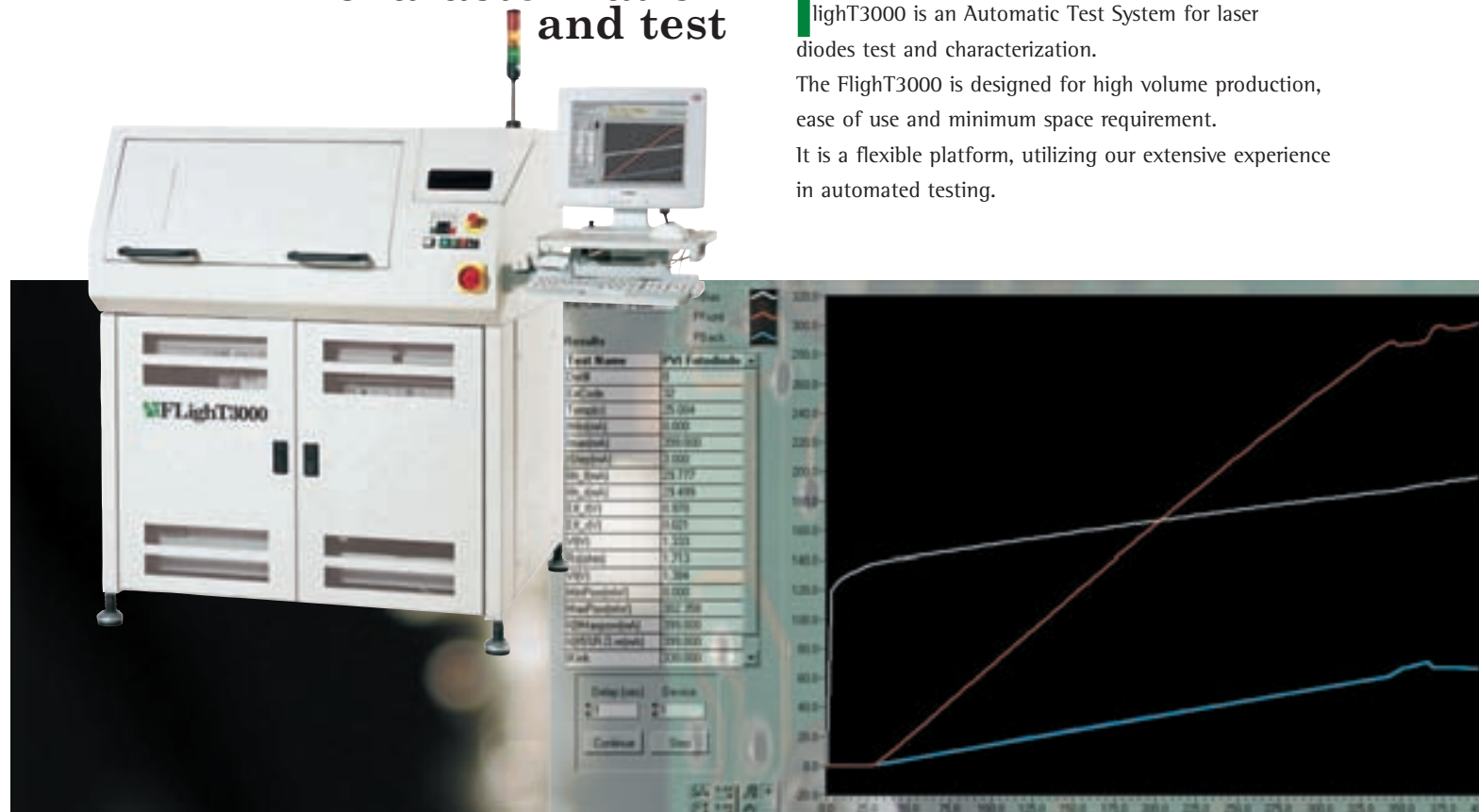
Alfautomazione's innovative manufacturing approach, based on customized solutions on standard platforms, assures:

- No compromise on customer requirements
- Modular and flexible solutions
- Short turn-around times.

Our innovative approach is supported by our close partnership concept, relying on:

- Team-based participation
- Proactive problem solving
- Flexible solutions.

Automated laser diode characterization and test



flighT3000 is an Automatic Test System for laser diodes test and characterization.

The FlighT3000 is designed for high volume production, ease of use and minimum space requirement.

It is a flexible platform, utilizing our extensive experience in automated testing.

FEATURES AND BENEFITS

- Automatic execution of the characterization sequence
- Up to 400 devices per run (CoS/Bar)
- Industrial equipment for high volume production
- Controlled temperature of carriers
- Statistical and maintenance software
- Worldwide support

FUNCTIONS

- L-I-V (Light-Current-Voltage)
- Far Field
- Spectrum analysis

GUARANTEED QUALITY AND PERFORMANCE ACCURACY

- Measurement instrumentation configured according to the user requirements
- PXI based for high level integration
- TestStand® and LabView® softwares, from National Instruments, grant a high level of flexibility

Automatic Alignment and Laser Welding



fiber Optics Alignment and Laser Welding Automatic Workstations, based on our AIFiber3000 standard platform, are suitable for laboratory and for industrial production. Imaging, motion and data acquisition are fully integrated, offering real-time control. Coarse alignment is controlled by imaging and allows accelerated cycle times and setup flexibility. Our proprietary Optical Power Tracking algorithm provides a very fast multi-axis alignment.

FEATURES AND BENEFITS

- High levels of accuracy and repeatability
- Ease of use
- Different alignment configurations available
- Different types of active/passive components supported
- Guaranteed Quality and performance Accuracy
- Plug&Play compact solutions
- Worldwide support

FUNCTIONS

- Fully automatic control of the alignment and laser welding process
- Glue dispensing and UV curing also available
- Automatic load/unload support

Micro Optical Component Assembly



the Micro Optical Component Assembly System, based on our AI Fiber 3000 standard platform, is an ideal solution for assembling micro optical components. The system features two six-degree of freedom (DOF) micro robots, an integrated laser welding system, a vision guided pre-alignment, active fine alignment software routines, and manual or automatic operation modes. Its compact design makes the AI Fiber 3000 standard platform suitable for laboratories, as well as for industrial production.

FEATURES AND BENEFITS

- High Levels of Accuracy and Repeatability
- Ease of Use
- Flexible Kinematics Configuration
 - Up to 6+6 degrees of freedom
 - Up to 6 auxiliary stages for welding and vision
- Compact Design
- Fully Compliant with Standard Safety Rules
- Worldwide support

FUNCTIONS

- Automatic/Manual Control of Assembly Process
 - Component pick and place, alignment and Laser Welding
- Final Device Characterization
 - L-I-V (Light-Current-Voltage), Beam analysis, Spectrum analysis (optional)

QUALITY AND PERFORMANCE ACCURACY

- Overall Mechanical Resolution:
 - Linear 0.1 µm
 - Rotary 0.0004°



World Wide Service and Support

Our main customers are multinational corporations and our test systems are installed around the world. We offer pre- and post-sales support and service from our headquarters in Italy and from our strategically located Sales and Service field offices. Our services include:

- Feasibility, cost and assembly/test time analysis
- Installation and service of equipments
- Training courses adapted to the needs of the participants
- Maintenance contracts
- Remote software updates.

The Alfa Advantage

alfautomazione has hundreds of systems installed worldwide. Our systems provide the productivity and reliability demanded by manufacturers. We utilize an open and flexible architecture that provides exceptional repeatability, stability and speed while maintaining ease of use. Our approach offers reduced investment risk through lower cost and faster time to market. By leveraging open hardware and software architecture we satisfy continuously changing requirements.

Authorized Agent/Distributor

Alfautomazione

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