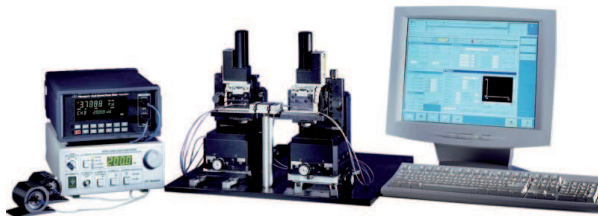




FIBERLINE AUTOALIGN™-MODAL

Modular Alignment System for Photonics Packaging

The AutoAlign-MODAL is a modular system for the alignment, assembly, and metrology of fiber optic components such as planar waveguides, AWGs, and fiber collimators. The AutoAlign-MODAL can be adapted to increasingly complex assembly and metrology demands as well as growing volume needs by adding easily configurable accessories. The extensive capabilities offered by the AutoAlign-MODAL are innovatively packaged so that the system is very compact.

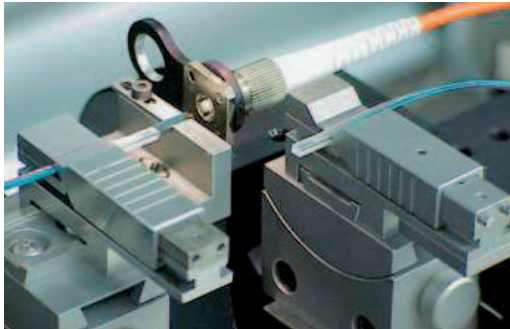


APPLICATIONS

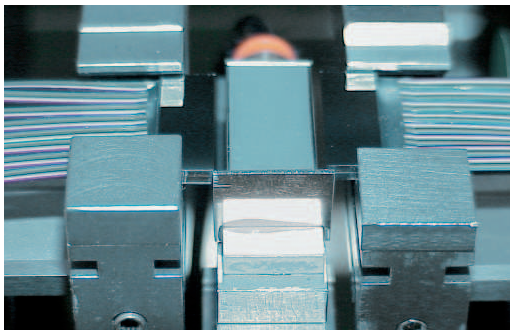
- + Planar wave guide coupling
- + FTTx Component packaging
- + Fiber Coupler coupling
- + Gyroscope assembly
- + AWG Alignment
- + Active Fiber Alignment
- + Your project

HIGHLIGHTS

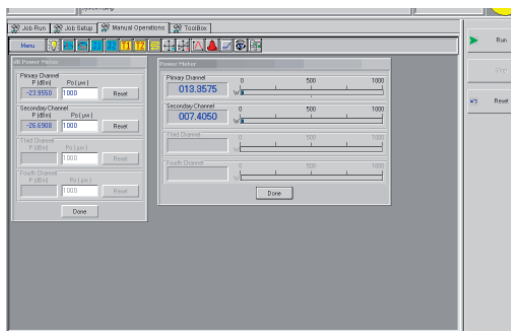
- + Economical modular system can easily be expanded to leverage your investment
- + Improved rigidity, stability, and system repeatability by low optical axis height of integrated stages
- + Small form factor saves expensive clean room or lab space
- + Precision motion system delivers high accuracy and repeatability
- + Excellent thermal stability for epoxy curing and laser soldering applications
- + Standardized hardware and software modules enable clear upward migration path



Various gripper designs



PLC to fiber ribbon alignment



INTEGRA Software

The basic configuration consists of an automated alignment engine, state-of-the-art motion control cards, stages, a power meter and a PC. The system can be reconfigured and upgraded to cope with additional needs.

Exceptionally stable mechanisms are the key to maintaining precise alignment, which in turn allows reliable measurements. The thermal stability of the positioning system is particularly important during epoxy curing, when positional alignment must be carefully maintained over a period of several minutes.

The AutoAlign-MODAL has been specially designed to provide superior thermal and mechanical stability through a combination of compact size, choice of appropriate materials, motor/bearing system design and control electronics. The basic alignment engine can be contained on a 18 x 18 inch breadboard and upgraded with a vibration-damped platform, glue dispensing unit, UV curing system, computer vision, etc.

MECHANICAL SET-UP

- + Translational and rotational stages
- + Up to 16 motorized axis for translation and rotation
- + Customer specific gripper tools
- + Exchangeable chuck and gripper design
- + Easily reconfigurable for future applications

SUPERIOR SOFTWARE PACKAGE

- + Built in Alignment Algorithms
- + Software controlled power meter and laser driver
- + Mature GUI
- + Intuitive usage

Please contact us for further information

ficonTEC Service GmbH Desmastraße 3-5 28832 Achim Germany T +49 (0)4202 51160-0 F +49 (0)4202 51160-90 info@ficontec.com www.ficontec.com