

The Science of Precision Motion

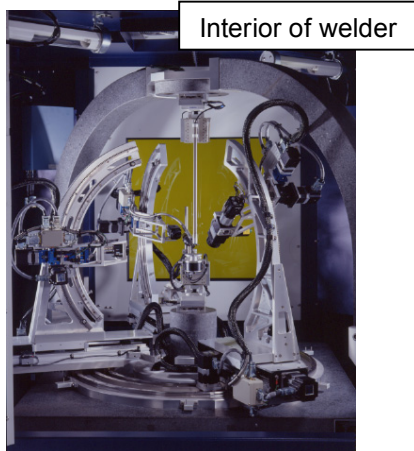
Ibex Engineering specializes in the design and building of custom precision positioning systems in a variety of configurations such as the one featured here.

This system was developed for a major fiber optics component manufacturer whose specifications required a laser welder with 19 controlled axes, both planar and axial, used for fiber optic laser welding.

Optimum laser focus was maintained using laser optics in conjunction with a triple delivery head system which could be rotated vertically and horizontally.

This system also employed automatic adjustment of the laser optics relative to the product package to be welded. XYZ freedom for the Gripper Stages and XYZ, and Theta freedom was provided for the part staging.

Ibex Engineering has over a man-century of precision positioning experience and best of breed components. We work hard on building partnerships one project at time.



Options / Features:

- Closed loop alignment based on package
- Custom tooling - part / package
- Computer controlled multiplexer for almost limitless signal routing
- Image processing
- Pattern recognition
- Auto-focus
- Configurable workstation
- 4 automatic doors for easy access on all sides

“Building partnerships one project at a time”