

Optical Radius Gages

High Resolution Optical Radius Inspection

Ultra-Precision Air Bearing Linear Stage

ABTech Inc's precision air bearing linear slides offer a high accuracy solution to the most demanding optical radius inspection applications. The fully captured air bearing carriage offers friction free motion while the natural granite rail provides a stable and straight guide way.

The top surface of the moving carriage is a precision ground nickel plated steel platform with tapped holes located on 1.00" centers to accommodate magnetic stands or optical mounts.

The optical radius slide has a fine adjustment feature that incorporates a 40 pitch screw with worm gear and hand wheel that allows for precise movements below 1 μ m steps.

An extremely accurate and thermally stable glass scale completes the stage providing precise position feedback to the digital readout.

ABTech's complete engineering, design and manufacturing capabilities are available as a compliment to your specific industry expertise to provide a custom targeted solution.



Model #ORS1000 Gage

Features:

- Natural granite rail
- Straightness of travel: 2.5 μ m per meter
- 1 meter travel standard
- 12" x 12" work surface w/ 1/4-20 tapped holes on 1.00" centers
- Fine adjust feature w/ manual lock
- Glass scale: 1 μ m accuracy per meter
- High resolution digital readout (DRO)
- Custom travel lengths available upon request
- Custom systems including optical benches or granite bases
- Custom tooling and fixturing design
- Made in USA