



AOA Xinetics does private-label design, manufacturing and repair of electro-optical products for diverse applications.

# Private Label Optical Contract Manufacturing

## Early- and End-Stage Product Support

### Contract Manufacturing Solutions

Northrop Grumman's AOA Xinetics is a leading, full-service Prototype Developer and Contract Manufacturer for complex electro-optical (E-O) products and modules. AOA Xinetics has 122,000 square feet of space, including clean rooms, and prototyping and machine shops for rapid manufacturing. We work closely with our clients on private-label manufacturing for their early-stage and end-stage products.

### Value Proposition

- Reduce fixed costs
- Focus on core competencies
- Apply AOA Xinetics' broad technical expertise
- Outsource product support
- Minimize facilities and staff
- Reduce risk

AOA Xinetics specializes in engineering and manufacturing for product development. Our clients may provide us with a simple problem statement or detailed product requirements, and we perform the design and Design for Manufacturing (DfM) engineering necessary to yield a manufacturable product. We also manufacture E-O

products and modules, often with more flexibility than our customers in responding to variations in product demand.

### Development Case Study: Laser Beam Delivery

A semiconductor lithography company contracted AOA Xinetics to design and manufacture precision, steerable optical assemblies to deliver UV laser beams in the 157-248 nm range to their lithography tools. The design provided beam conditioning and transferred the laser beam up to 70 feet, along with two-axis beam steering and position measurement. AOA Xinetics delivered 200 systems, meeting stringent quality control, clean room, particulate and molecular volatile contamination, and copy-exactly standards.

### Outsourcing Case Study: Graphic Arts

A customer looking to outsource the manufacturing of several imager heads for high-volume, large-format printing contacted AOA Xinetics. The challenges were product complexity, the need for top-notch engineers in multiple disciplines to resolve problems, and the dif-

iculty of transferring entire clean room manufacturing lines. The goals were to have the new production line running in three months and to meet aggressive targets on price and warranty returns. AOA Xinetics met those challenges and has now fielded more than 250 of the systems.

### Application Areas

- Industrial imaging systems
- Machine vision systems
- Laser beam delivery
- Customized metrology products
- Laser targeting and designators
- Specialized camera design/manufacturing

### For more information, please contact:

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