



AZORES

ABOUT AZORES

About Azores

With more than 35 years of combined experience, Azores delivers high-quality products and services to an expanding global base of customers. Azores Corp was incorporated in March of 1999 by former employees of MRS Technology, Inc. Now Azores Corp is a leading global supplier of precision photolithography equipment for semiconductor and other growth industries. Azores is located in a 40,000 square-foot corporate headquarters in

Wilmington, Massachusetts, USA, and provides local sales and customer support throughout Asia, Europe, and The Americas. The company's headquarters features a two-story facility specifically designed for manufacturing photolithographic steppers, with 15-foot high ceilings and a 10,000 square feet of Class 1000 clean room, as well as customer support and training.

AZORES

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high-resolution
photolithography

high-resolution

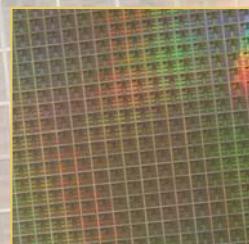
PHOTOLITHOGRAPHY

Azores manufactures precision step-and-repeat photolithography printers for the flat panel display (FPD), sensors, and semiconductor industries. Our global presence and technical expertise assures customers of a complete manufacturing solution for their application.

Applications and Emerging Markets

Azores systems are ideal for a variety of precision markets and applications. For instance, the FPD market encompasses a broad range of products, from large televisions and computer screens to small-screen mobile

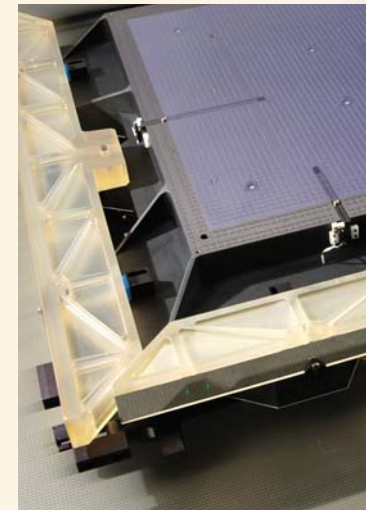
devices. Consistent upward growth is projected for the next several years, as the market expands to accommodate many new consumer applications. Azores is a leading supplier of photolithography systems for the manufacture of active matrix liquid crystal displays, low temperature poly-silicon thin film transistor liquid crystal displays, organic light emitting diodes, and field emission displays. Equally as important are developments in X-ray sensors, wafer level packaging (WLP), and high density interconnect (HDI). Continued market growth has positioned Azores to fully serve the photolithography requirements for these important applications.



Our markets include the FPD, sensors, and semiconductor industries.



Reticle being loaded



X-Y stage motion

Azores Technology

Azores photolithography systems are based on the seamless integration of high-quality subsystems and provide customizable solutions for specific imaging applications. The high-fidelity projection lens and illumination system features corrected optics with real-time auto-focus measurement and compensation. Up to 60 masks can be stored on the automated reticle handling and storage system, with automatic loading of up to 6 masks per layer.

The precision X-Y stage is a key component in providing accurate and repeatable features as

small as 1.5 μm , and utilizes laser interferometer controls that are integrated with a metrology package for precise correction of the lens, illumination, and alignment. Relay optics enable the aperture blade plane and reticle plane to be in focus simultaneously, allowing for denser geometries.

The accuracy and versatility of our steppers depends on an extensive network of subsystem suppliers, including a precision lens assembly and high fidelity projection optics from Corning Tropol and a sophisticated suite of laser interferometer sensors from Zygo.

