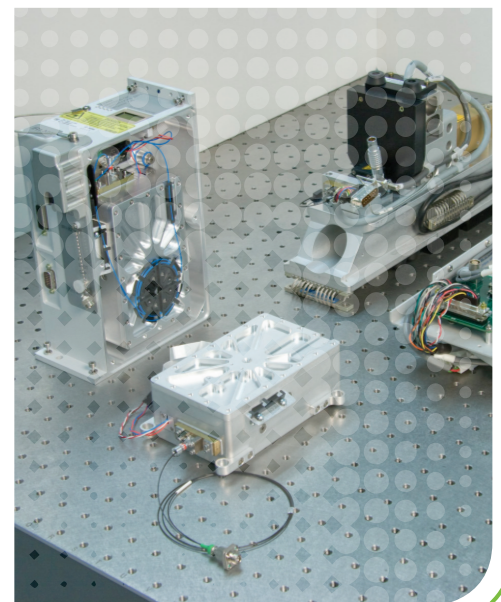
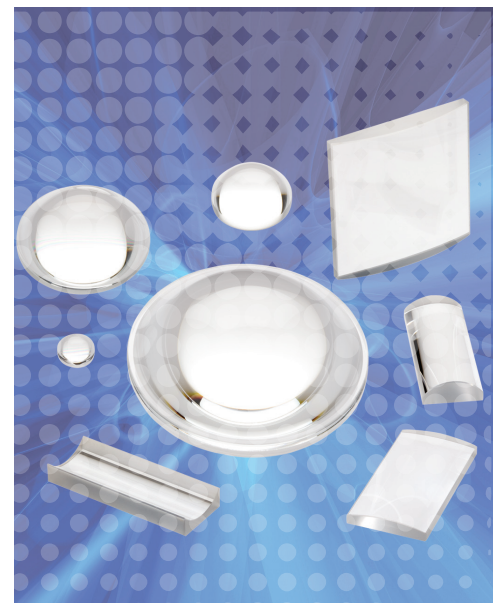
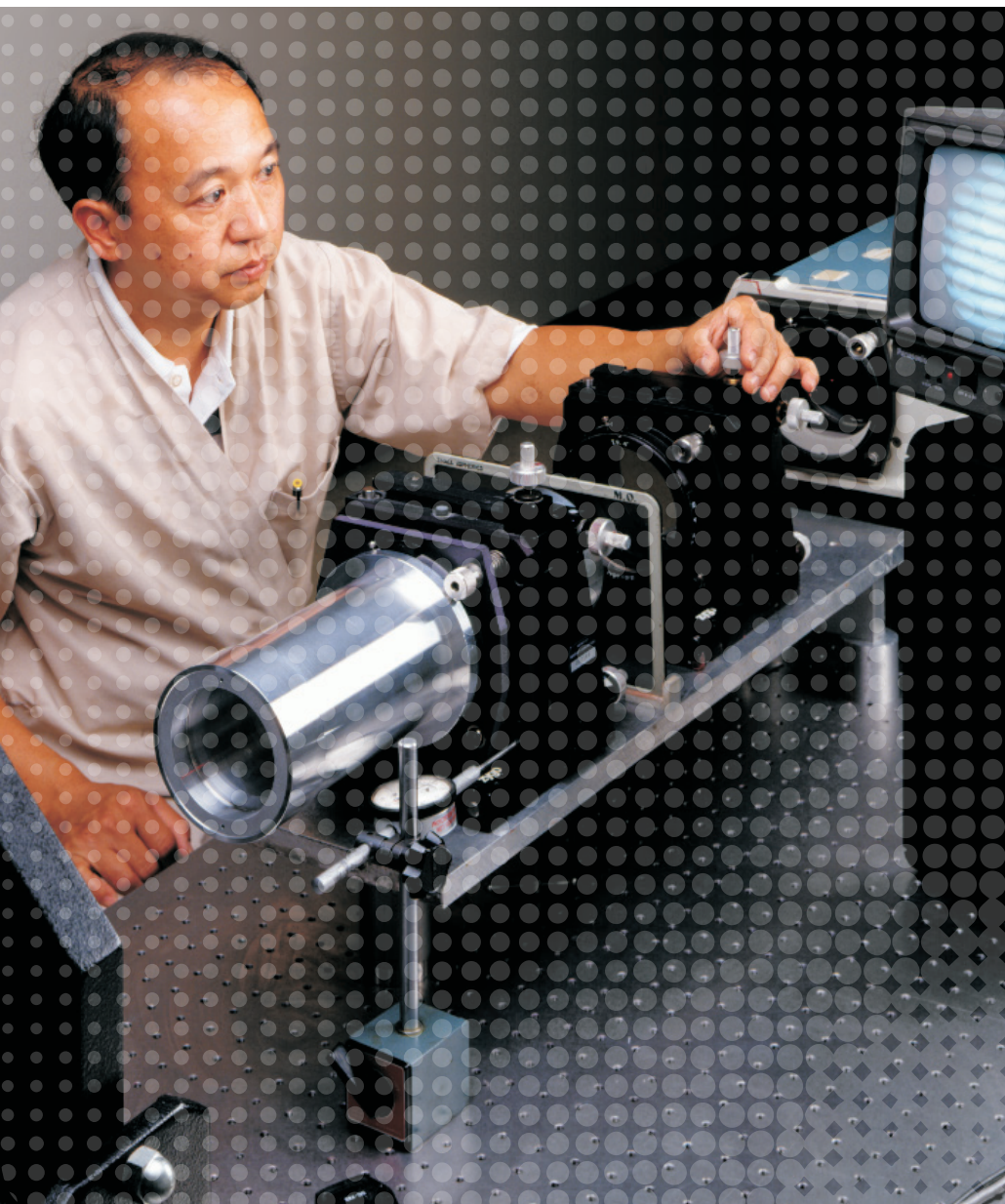


# MKS INTEGRATED SOLUTIONS BUSINESS





## MKS INTEGRATED SOLUTIONS BUSINESS

The Integrated Solutions Business (ISB) is a leading design-to-manufacturer of precision optical components, as well as complex opto-mechanical assemblies and systems. With state-of-the-art design and manufacturing expertise in precision optical component fabrication, metrology, optical coatings, and assemblies, ISB is the ideal development to production partner for OEM customers.

### Leader In Design-to-Manufacturing

Our team of design, manufacturing engineers and scientist have developed proprietary processes for optical fabrication and coating using state-of-the-art equipment capable of producing optics with superior surface figure and finish for deep ultraviolet (DUV), ultraviolet (UV), and visible (VIS) applications. With full vertical integration from components manufacturing to systems assemblies, and lateral integration among business units with an extensive product base and

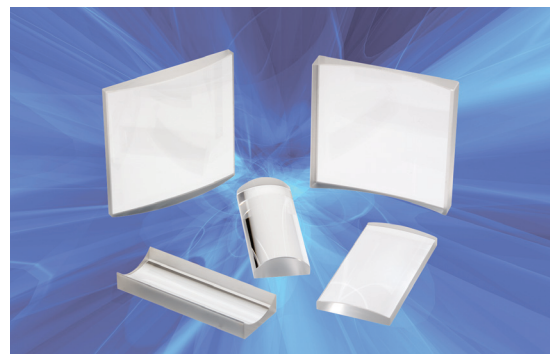
broad technical resources, ISB enables customer solutions with capability to design modular sub-assemblies, assemblies, and systems to meet customer needs with customized solutions.

These solutions serve markets including but not limited to semiconductor capital equipment, microelectronics, life and health sciences, civil aerospace and defense, flat panel display and other industrial markets.

Products include high precision spheres, aspheres, achromats, prisms, cylinders and thin-film optical coatings



**Aspheric and Freeform**



**Cylindrical Lenses**



## Design Services

Expertise in optical, opto-mechanical, electrical, and systems design

### **BUILD-to-PRINT**

Our team of experts work collaboratively with you to develop your designs for manufacturability

### **BUILD-to-SPECIFICATION**

End-to-end product design and system engineering to meet your requirement

## Manufacturing Services

Fabrication and coating of high precision optical components

### **Manufacturing and Production:**

- US facilities w/ IP control
- International low cost production facilities

### **Global Sourcing:**

Worldwide manufacturing facilities and strategic partners

## OEM Optics

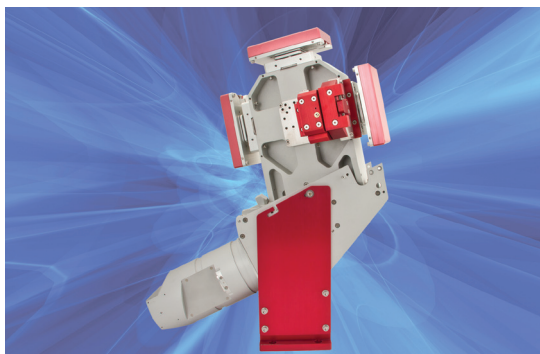
Freeform manufacturing including cylindrical and aspheric surfaces

High damage threshold DUV and UV coatings

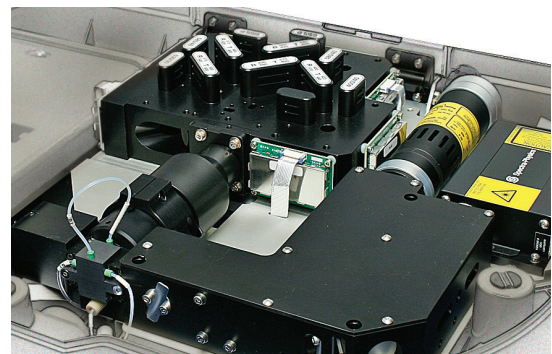
Lens assemblies with sub-micron Decentering

Proprietary shaping and figuring capabilities for controlling midspatial and high spatial frequency roughness

Targeted figure correction using deterministic methods including MRF and IBF (Ion beam figuring)



**Opto-Mechanical Assemblies**



**Electro-Optical Assemblies**

**WHY MKS?**

**CRITICAL TECHNOLOGIES**

World-class technology and development capabilities for leading-edge processes



**PROVEN PARTNER**

Recognized leader delivering innovative, reliable solutions for our customers' most complex problems



**OPERATIONAL EXCELLENCE**

Consistent execution across all aspects of our business



**COMPREHENSIVE PORTFOLIO**

Largest breadth of product and service solutions for the markets we serve



**MKS Pressure & Vacuum Measurement Solutions**

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**Newport** is a brand within the MKS Instruments Light & Motion division. The Newport product portfolio consists of a full range of solutions including precision motion control, optical tables and vibration isolation systems, photonic instruments, optics and opto-mechanical components. Our innovative Newport solutions leverage core expertise in vibration isolation and sub-micron positioning systems and opto-mechanical and photonics subsystems, to enhance our customers' capabilities and productivity in the semiconductor, industrial technologies, life and health sciences, research and defense markets.

For further information please visit [www.newport.com](http://www.newport.com)