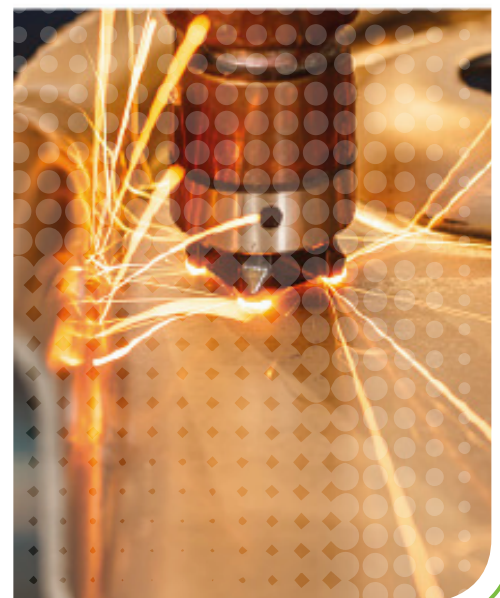
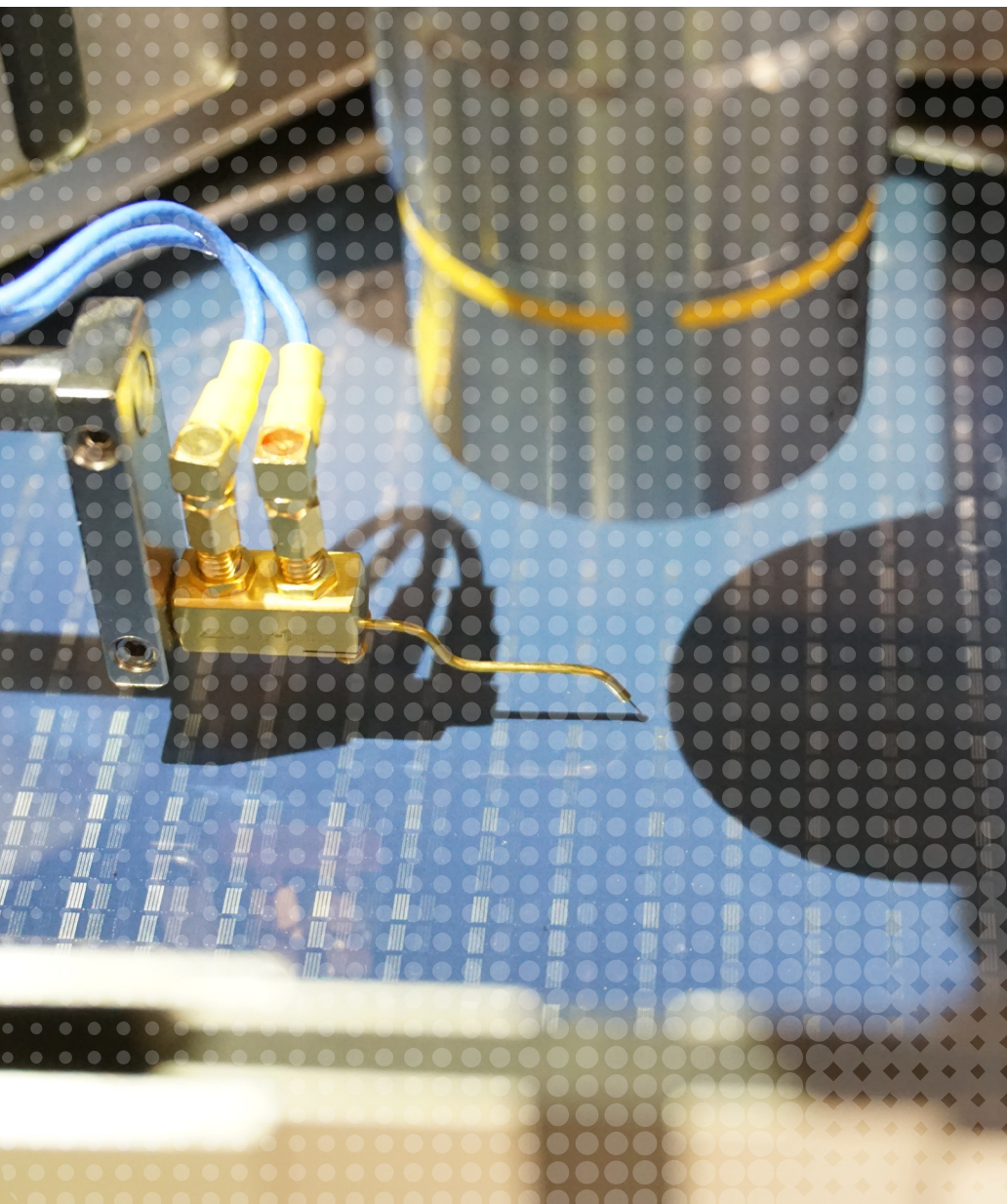
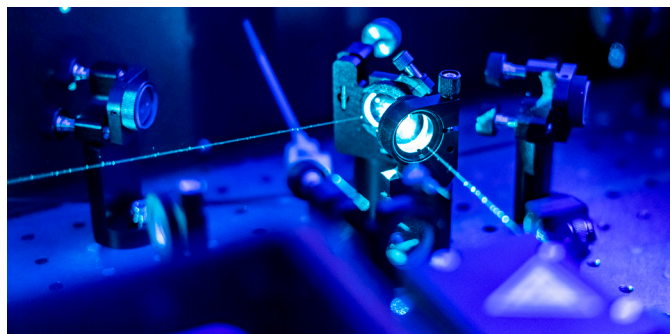
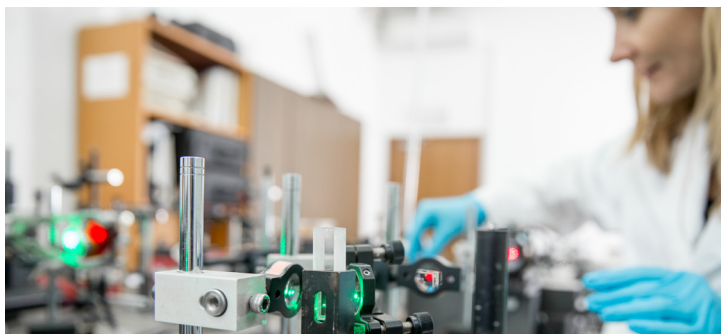


NEWPORT CYLINDRICAL LENSES





NEWPORT PRECISION CYLINDER LENSES

MKS' Newport brand produces world class plano-convex and plano-concave cylindrical lenses with cylindrical radii as small as 3mm, up to 200mm round or square, and cylindrical lens segments up to a hemicylinder. Our fully integrated grinding, polishing, and coating capabilities, along with our extensive metrology capability, enable us to produce cylindrical lenses with consistent, repeatable precision and surface irregularity up to $\lambda/100$. Tight optics tolerance capabilities allow us to support customers' high system performance needs. High power and high energy lens applications are also supported with a wide range of coating and substrate materials and proprietary process knowledge.

All Newport cylindrical lenses are fabricated in our MKS facilities from most lens grade glasses and crystals including:

- N-BK 7
- UV grade fused silica
- Magnesium fluoride (MgF2)
- Calcium Fluoride (CaF2)

A variety of high-performance cylindrical lens coatings are available:

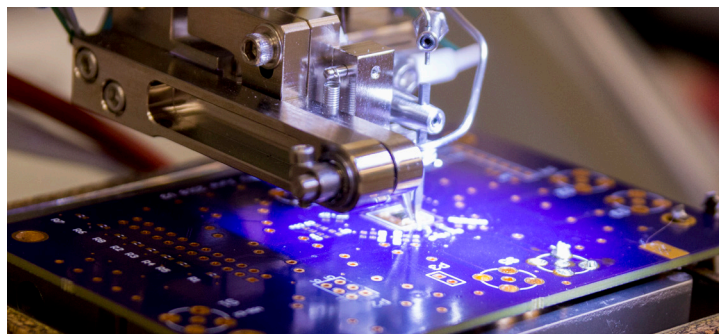
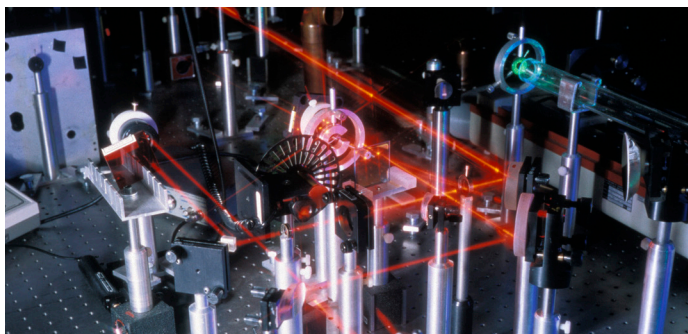
- 193nm + 266nm VUV and VIS antireflective
- Extended performance pulsed high energy laser
- Extended performance CW high power laser
- Complex multi-layer

We use multiple coating deposition processes to optimize coating quality and performance:

- Ion beam sputter
- E-beam
- Plasma ion assisted
- Thermal

We provide our cylindrical lens customers with consistent precision and quality, thereby reducing system performance risk. Our reliable and durable optics offer damage control and optics longevity in customer systems while our optimized manufacturing and operations delivers an exceptionally reliable supply chain. These factors, when coupled with our strategic geographic distribution of sales and technical support make MKS a trusted partner for world class cylindrical lenses.





MKS WORLD CLASS OPTICS

Advanced optical systems require components fabricated to highly exacting standards. MKS' Newport Optical Components Group manufactures a broad range of solutions, from individual optical components to fully engineered custom optical systems. Our expertise combines leading-edge optical fabrication, robust metrology, and high-performance coatings to optimize instrument and system performance. We enable solutions for key industries including semiconductor, life and health sciences, and industrial technologies.

We use a variety of best-in-class manufacturing processes for our lens production:

- Proprietary advanced manufacturing methods
- Thin film process expertise for optimal anti-reflective, reflective, filter, and polarization optics coatings
- Knowledge in optical contact and bonding assembly
- Deep ultraviolet (DUV) thin film coatings
- Custom multilayer coating designs

Our quality measurement systems deliver consistent, repeatable products:

- Aspheric stitching interferometry
- Fizeau interferometry
- White-light interferometry
- Bright /dark field microscopy
- Zeiss Eclipse

MKS maintains a strong program of continuous investment in state-of-the-art optical fabrication, coating, and metrology tools. We invest heavily in employee development, growth, and

retention that secures our fabrication and method development advantage into the future. Our experienced personnel, continued development of advanced fabrication and metrology methods, and our depth of knowledge in optical component and system manufacturing means we can supply world class optical products ranging from individual optical components to fully engineered custom optical solutions. These unique capabilities make MKS a trusted optical components partner.

We've invested in the people, technology and material science that will enable your next optical design. Contact us today to experience the MKS Newport advantage.



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 | Newport

1791 Deere Ave.
Irvine, CA 92606
+1 877 835-9620
<https://www.newport.com>

MKS Corporate Headquarters

2 Tech Drive, Suite 201
Andover, MA 01810
+1 978-645-5500
+1 800-227-8766 (in USA)

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

BR-062101 WCO/Cylindrical Lenses Brochure_06/21, © 2021 MKS Instruments, Inc. Specifications are subject to change without notice. MKS products provided subject to the US Export Regulations. Diversion or transfer contrary to US law is prohibited. mksinst™ is a trademark of MKS Instruments, Inc., Andover, MA. Swagelok® and VCR® are registered trademarks of Swagelok Marketing Co., Solon, OH. Viton® is a registered trademark of E.I. DuPont, Wilmington, DE.