

Custom Components Solutions

Your Source for Modified and Custom Components Products:

Optical Mounts, Optical Components, Manual Positioning
Application Specific Solutions for UHV, DUV & EUV



Solutions to Make, Manage and Measure LightSM

 **Newport**
Experience | Solutions

Newport Corporation's Components Group has been supplying industry leading optical mounts, optical components and manual positioning products for over 25 years.

During this time we have been continuously developing materials, modifying processes and supplying custom products for customer specific applications.

Our custom products start with one of our standard optical mounts, optical components or manual positioning stages and are then modified to your specific needs.



Optical Mounts and Manual Positioning Products

Newport can modify most of our optical mounts or manual positioning stages to provide a solution for your application.

Mechanical Modifications

We can modify one of our existing products, build to print from your design or we can design a custom, new solution for your specific needs:

- Add additional mechanical characteristics for your space constraints or mounting requirements.
- Modify our optical mounts for non-standard sized optical components.
- Add higher tension springs or lower tension springs.
- Increase the travel range of manual stages.

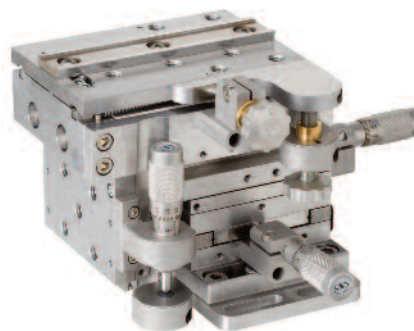
OEM and Sub-Assembly Support

Regardless of the type of custom modification, Newport can support OEM quantities for standard or custom products. Any of the modifications listed can be supported in volume production.

Newport can also assemble and integrate standard or custom products into higher level customer assemblies. If you purchase optical components and optical mounts separately and assemble at your facility then let Newport assemble them for you and send one complete assembly to your facility.



Custom Solution: Newport V100-CP Mirror Mount with 10D20ER.1 Broadband Mirror mounted to a RSP-1T Rotation Stage.



Custom OEM Application: 562F-XYZ with 562F-TILT

Environmental Modifications

Do you have an adverse environment or technical application where our standard optical mounts and manual positioning stages are not compatible? We have developed proven processes to support some of today's most challenging environments.

Newport first started developing and modifying our catalog products to meet Vacuum Compatible (10⁻⁶ Torr) requirements in 1997.

- We have an established history of supplying our catalog optical mounts and manual positioning products to meet the needs of a vacuum environment.
- Customers have trusted us for years to support their most critical needs for vacuum compatible mounts and stages.



Custom U100-G2K Optical Mount modified for 10⁻⁶ Torr Vacuum Applications



Custom M-DS25-X Compact Dovetail Linear Stage modified for 10⁻⁹ Torr Ultra-High Vacuum Applications



Custom M-36 Tilt and Rotation Platform modified for 10⁻⁹ Torr Ultra-High Vacuum Applications

In 2001 Newport began developing materials, processes and infrastructure to support the Semi-Conductor Capital Equipment market and since has developed a reputation for meeting the most stringent needs of UV and DUV requirements.

We have identified and tested compatible adhesives and lubricants to minimize outgassing concerns for each application, developed and qualified precision cleaning methodologies and invested in processes and infrastructure to preserve cleanliness during assembly and packaging.

We are now building on this knowledge to offer more options for your specific needs.

Most of our catalog optical mounts and manual positioning stages can now be modified to meet the following applications:

- Vacuum Compatible, 10⁻⁶ Torr
- High Energy Infrared\Pre-EUV Light Generation
- Extreme Ultra-Violet (EUV)
- Ultra-High Vacuum 10⁻⁹ Torr (UHV)
- Deep-Ultra Violet (DUV)



Custom 9814 Stability Top Mirror Mount for High Energy Infrared, Pre-EUV Light Generation Applications 1" and 2" versions



Custom HVM - 1i Vertical Drive Kinematic Optical Mount modified for Deep Ultra-Violet Applications



Modified Catalog Optics

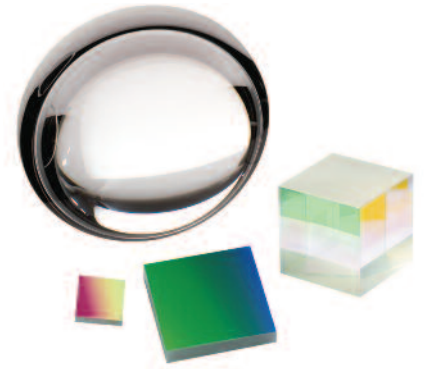
Our extensive knowledge of optics, diverse product offering and global manufacturing and supply chain allow Newport the opportunity to support your specific needs.

Find an optical component in our catalog but need a modification? We can provide a solution!

Whether its size, shape, material or optical performance we can design the necessary changes and use our expansive global manufacturing and supply partnerships to meet your needs.

Have an OEM application? We can provide a solution!

Newport can support prototypes and qualification orders. And we regularly support volume production, 1000+ quantities.



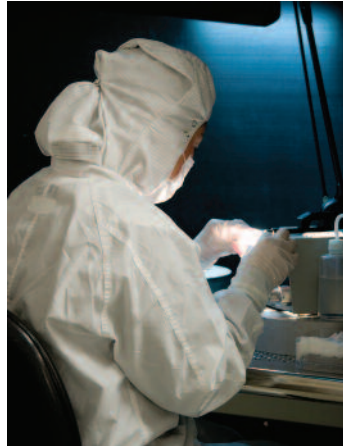
Capabilities:

- Wavelengths 400 nm to 2 μ m
- Various substrate shapes processed including flat, spherical, aspheric, cylindrical, and right-angle prisms
- Lens diameter of 5 mm- 152 mm
- Mirror diameters of 5 mm – 203 mm
- Surface figures to $\lambda/20$
- Scratch-Dig 10/5 or better
- Surface roughness to $\sim 2 \text{ \AA}$ RMS

Materials:

- Fused silica
- BK7
- Borofloat
- Zinc selenide
- Zerodur™
- Quartz
- Germanium
- Silicon
- Zinc sulfide
- Large selection of filter glass





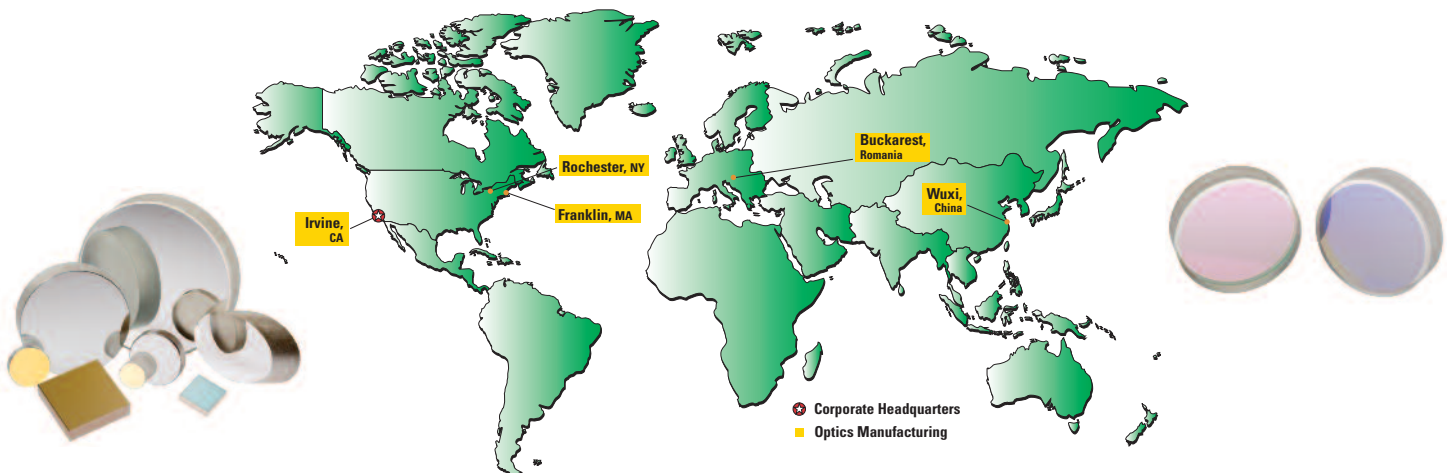
Thin-Film Coating

Newport Corporation brings over 40 years experience in custom thin-film technology offering a complete range of custom coating types, from reflectors to broadband antireflection.

Whether you're doing business in North America, Europe or Asia we have global Newport manufacturing sites and supply partners that can manufacture high volume optical components at competitive prices.



Global Optics Manufacturing and Supply Network



www.newport.com

Contact us at: sales@newport.com or go to www.newport.com/custom-component-solutions

We want your feedback:

Do you have suggestions on how to improve our optical mounts, optical components and manual positioning products?

Do you have new product suggestions for optical mounts, optical components and manual positioning products?

E-mail your comments and suggestions to: sales@newport.com



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Newport Corporation, Irvine and Santa Clara, California and Franklin, Massachusetts;
Evry and Beaune-La-Rolande, France; Stahnsdorf, Germany and Wuxi, China have
all been certified compliant with ISO 9001 by the British Standards Institution.

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