IDEX Corporation is best known for our expertise in highly engineered fluidics systems and components, as well as for our expertise in fire and safety products. IDEX was founded in 1988 and is headquartered in Lake Forest, Illinois. In 2008, the Corporation made a commitment to grow in the optics and photonics marketplace and formed the IOP platform in 2012.

IDEX Corporation is arranged into three market segments: Health & Science Technologies, Fluid & Metering Technologies, and Diversified Products.

More Experts, More Landscape, More Resources

The IDEX Optics & Photonics platform is defined by excellence in its products and service. When companies team up with us, they gain an expert partner. Our exceptional engineers have the depth of knowledge to understand our clients’ complete optical systems and support their development process. Working with our team, our customers gain increased operational efficiency and cost savings resulting from fewer points of contact and bundled contracts.

The IOP family of companies offer the advantages of both a large and a small technology business. Like a large business, we offer technical breadth, deep resources, and critical mass in key areas. And like a small business, we offer speed, flexibility, and an environment in which our people make a tangible impact by owning problems and solutions. Within our ranks, we define success as business units that meet a distinguished standard of operational and commercial excellence, resulting in product quality, cost control, and industry-leading service.
ATFilms / Precision Photonics manufactures premium laser optics and high-quality coatings for a wide variety of optics and photonics related applications. Our team of widely respected thin-film engineers represents more than 100 years of collective experience in the optics industry. Whether your needs are spectrally, technically, or environmentally demanding, we will work with you to provide practical solutions.

IBS and IAD Coating Technologies
We use ion-beam-sputtered (IBS) and ion-assisted (IAD) coatings because they offer lower scatter and absorption losses than other coating technologies. In addition, our advanced process controls allow us to deposit complex thin film structures with very high precision. The advantages of spectral control include sharper features, higher contrast, repeatable performance and tighter tolerances.

Metrology
We have developed innovative methods to manufacture and measure the optical properties of our devices. We also partner with universities and national laboratories to provide the most accurate and complete information available.

CADB® Epoxy-free Bonding
Much more durable than standard optical contacting, our epoxy-free bonding process results in components that are insensitive to changes in temperature and humidity and can be further polished and/or coated after assembly. CADB can be used on either coated or uncoated surfaces and on a wide range of substrate materials.
About ATFilms
Incorporated in 2002 and based in Boulder, Colorado, ATFilms specializes in Ion Beam Sputtering (IBS), a technology that masters the deposition of precise, dense, and durable films on a substrate. In addition, ATFilms manufactures a full line of superpolished optical substrates for the most challenging applications.

Precision Photonics
The newest member to the IOP platform, Precision Photonics is also based in Boulder, CO in the same location as ATFilms. PPC specializes in precision metrology, epoxy-free optical bonding, high damage threshold laser mirrors, micro-optics and optical assemblies.
CVI Laser Optics is your market leader in standard and option-configured laser-grade optics and bonded assemblies. By offering a large selection of ready-to-ship standard products, alongside an outstanding collection of “Build-Your-Own” components, and decades of custom engineering expertise, we are ready to provide what you need when you need it.

Outstanding Customer Service
Our knowledgeable Technical Sales Team is ready and available to assist and answer your biggest application questions when you need out-of-the-box or fully customized optical solutions.

Wide Range of Products
We offer expertise in building components designed for Nd:YAG, Ti:Sapphire, Excimer and other high power laser applications as well as a broad range of standard offering and custom optical components. High precision optical substrate manufacturing and polishing and optics are available in wavelengths from 193 nm to 20.0 µ. Our team also offers superior expertise in optical contacting for high laser damage applications.

Specialized Production Capabilities

<table>
<thead>
<tr>
<th>Available Coatings</th>
<th>Coating Technologies</th>
</tr>
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<tbody>
<tr>
<td>&gt; Anti-reflection coatings</td>
<td>&gt; Soft Film</td>
</tr>
<tr>
<td>&gt; Metallic Coatings</td>
<td>&gt; Electron Bombardment</td>
</tr>
<tr>
<td>&gt; All-dielectric Reflectors</td>
<td>&gt; Plasma Ion-Assisted Bombardment (IAD)</td>
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<tr>
<td>&gt; Hybrid Reflectors</td>
<td>&gt; Ion-Beam Sputtering (IBS)</td>
</tr>
<tr>
<td>&gt; Partial Reflectors</td>
<td>&gt; Magnetron Sputtering</td>
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Extensive Metrology Services
- White light interferometry
- 12” Zygo Verifire™ interferometry
- Fizeau phase shift interferometers
- Twyman-Green laser phase shift interferometry
- Computer generated holograms (CGH) for cylindrical optics
- Goniometric spectrophotometers
- Measurement capabilities from 193 nm to 2.5 μ
- Perkin Elmer Lambda 950 UV/Vis/NIR Spectrophotometer
- Agilent Cary 5000 and 6000i UV/Vis/NIR Spectrophotometer

About CVI Laser Optics
Founded in 1972, CVI Laser Optics operates manufacturing facilities in New Mexico, UK, and Korea. We are a flexible OEM partner and will grow with you as your needs and projects change.
MELLES GRIOT

Melles Griot combines deep technical expertise, with creative engineering teams who understand how to bring product ideas to market successfully for life science, medical, imaging, semiconductor and defense customers worldwide. From optical components and systems, to laser source light engines and shutters, the Melles Griot team and you engineer success.

Optical Systems Engineering and Manufacturing
Our expertise in optical and mechanical design, optical fabrication, coating, metrology and high precision assembly, combined with a global manufacturing base, uniquely positions Melles Griot to provide the highest performance optical solutions for a wide range of applications.

> High NA Objectives from DUV to NIR
> Beam Conditioning Optics
> Illumination Systems
> Integrated Optical Metrology Systems
> Reflective Objectives
> Imaging Systems
> F-theta Lenses
> Beam Expanders

Shutters
We have extensive experience in developing custom shutters for IR-imaging systems used in defense and security applications.

> Rotor Drives
> Stepper Controlled
> Extreme Environment Usage
> Ultra-thin Design
Light Source Engineering and Manufacturing
Melles Griot has manufactured high-performance laser-based solutions for over 34 years. Our seasoned design and development teams represent disciplines in laser physics, opto-mechanical design electronics; delivering robust and reliable products with proven performance.

> Diode-pumped Solid-State Lasers
> Gas Lasers
> Semiconductor Laser Modules
> Multi-laser Light Engines

About Melles Griot
Since its founding in 1969, Melles Griot has established itself as a premier manufacturer of optical systems and laser-based light sources. Melles Griot facilities are located in New York, California, Japan, and South Korea.
Semrock combines the most sophisticated Sputtering deposition systems with proprietary technology and process improvements to provide optical filters with steeper edges, precise wavelength control, and carefully optimized blocking. With Semrock products, our clients are able to increase instrument sensitivity and allowing faster and more efficient measurements, even at UV wavelengths.

The Semrock manufacturing process ensures that all of our products are exceptionally reliable. Our filters’ all-glass structure combined with the latest sputtering technology makes them virtually impervious to humidity and temperature degradation. Semrock filters don’t burn out and can be easily handled and cleaned using traditional methods. Instrumentation manufacturers find that with our filters they can “set it and forget it.”

Our product designers use proprietary software to determine the best recipe that will result in the shortest turnaround for our customers. Our manufacturing team ensures batch-to-batch reproducibility. So whether a filter is from the initial run or the last, all will provide consistent, reliable performance.