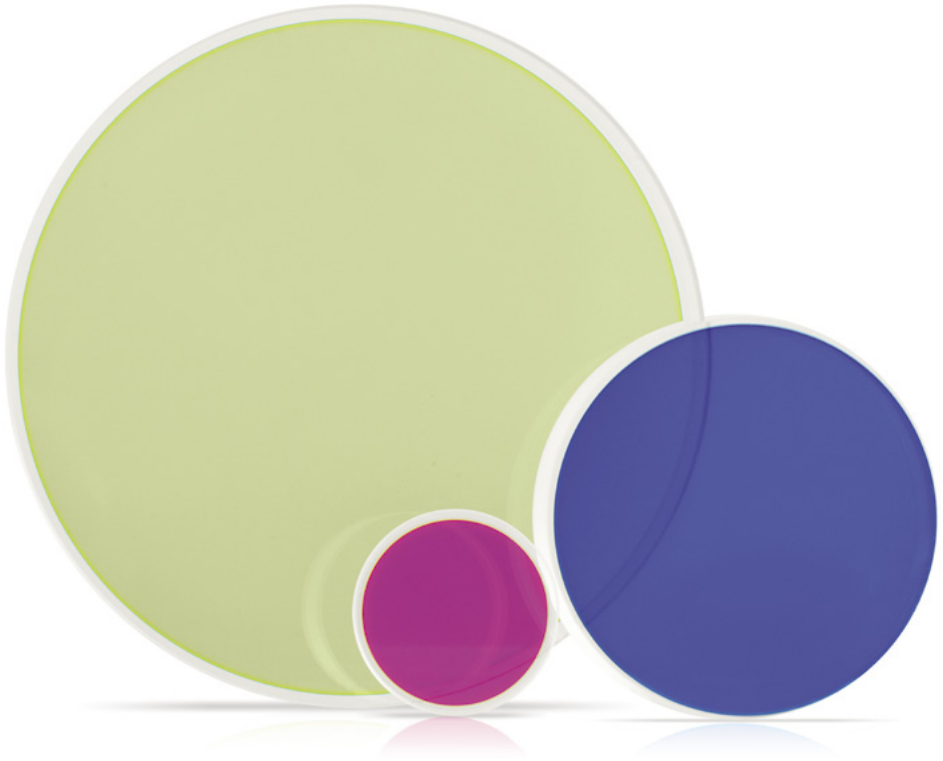
LASER COMPONENTS

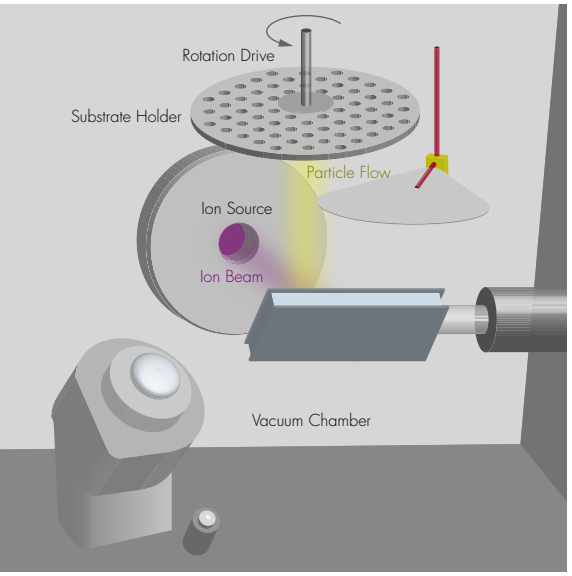
PREMIUM LASER OPTICS



www.laser-components.com

About Us

Long-standing History Since 1986



IBS (Ion Beam Sputtering)
Lowest dispersion losses and
very high reflection rates: R>99.95%

Long-standing history since 1986
At LASER COMPONENTS, we deliver durable, long-life, and custom laser optics with a quick turnaround at an affordable cost.

Working closely with our customers, we commit to high quality solutions with continuous investments in state-of-the-art equipment and highly trained staff.

You will work with an innovative partner who keeps pushing the boundaries!

We actively participate in:

- Research projects
- DIN standards committee
- SPIE laser damage competitions

ITAR
registered & compliant

>80%
custom laser optics

UV Coated Optics

Durable and Long-life

We produce industrial-grade mirror coatings in the standard wavelength ranges between 248 nm and 355 nm, as well as beam splitters, thin-film polarizers, and AR-coated optics in the UV range.

Depending on the application, we offer standard UV specifications at attractive pricing or complex designs of more than one hundred homogeneously coated layers.

"No degradation, not even after three years" – Industrial laser customer

Specifications:

- Wavelengths: e.g. 266 nm, 308 nm, 355 nm, and the like
- Long lifetime
- High LIDT
- Low absorption

Mid-IR Coated Optics

Up to 3,000 nm

Our 2-µm coated laser optics can be found in the cavities of many medical laser systems. The know-how we have built over the years allows us to produce high-damage-threshold optics with barely any water retention and thus extremely low temperature drifts.

,

"Best quality vs. pricing, and very good LIDT" – Medical laser customer

Specifications:

- Wavelengths: e.g. 2010 to 2100 nm
- High reflectivity or transmission
- High LIDT
- Low absorption

High-Power Optics

Highest LIDT

We offer a wide range of durable laser optics for high power and high energy laser applications such as the mega-joule and petawatt laser projects.

Our manufacturing capabilities include new design approaches for plasma ion assisted deposition (PIAD) and ion beam sputtering (IBS) to produce coated optics up to 380 mm in diameter that are homogeneously coated across the entire surface (deviation: <1%).

"Impressed by high power mirrors" – Research center customer

Specifications:

- Wavelength range: e.g. 750 nm to 850 nm
- GDD < ±100 fs^2
- LIDT >5 J/cm^2 at 300 psec
- Above specifications are all combined in one coating design

Do you require coated optics?

Mike Tuohy Sean Wilson

+1 603 821 7040
optics@laser-components.com

Let us know how we can help

How to specify the best optical properties for your application

Choose from:

Flexible production capacity

- Substrate: diameter up to 380 mm
- Wavelength: from 248 nm to 3000 nm

State-of-the art coating technologies

- Electron beam deposition – Flexibility
- Ion assisted deposition – Homogeneity
- Ion beam sputtering – Complexity

Variety of optical components

- Mirrors
- Thin film polarizers
- Dichroics
- Beam splitters
- Output couplers
- Gaussian mirrors

LASER COMPONENTS®

LASER COMPONENTS USA, Inc.
116 South River Road, Building C
Bedford, NH 03110 / USA
Phone: +1 603 821 704 0
Fax: +1 603 821 704 1
www.laser-components.com

07/19 - V2E - 3028546