

# IBS ION BEAM SPUTTERING

## PRODUCE HIGH-QUALITY OPTICAL COATINGS

### Why IBS?

Ion Beam Sputtering is the preferred technology for the production of high-quality optical coatings e.g notch filters or low-loss mirrors. The particles that are deposited on the substrate have a higher kinetic energy than when deposited with other PVD coating technologies. This enables the deposition of particularly dense, stable and low-loss coatings on different substrates.

### Our services

- Feasibility studies
- Prototypes and pilot production
- Research projects (potentially funded)
- Support the development of your production processes

### Your key benefits

We use an industrial standard DIBS (Veeco Spector 1.5) installed in a clean room with following technical advantages:

- Dual ion beam sputter technology (DIBS)
- Dense, stable and low-loss coatings
- Cold deposition process ( $\leq 100^\circ\text{C}$ )
- $\text{Ta}_2\text{O}_5$ ,  $\text{HfO}_2$ ,  $\text{SiO}_2$ , more coating materials on request
- Up to 10 cm diameter possible, larger substrate sizes on request
- Swiss quality
- VIS-NIR optical broadband monitoring (400-1000 nm)
- High-speed substrate holder for deposition uniformities better than 0.1%

## IBS COATING: CONTACT US TODAY FOR AN OFFER!

Have a look at [www.rhysearch.ch](http://www.rhysearch.ch) or ask:



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 UNIQUE COATING  
 EQUIPMENT AND  
 BEST SERVICES.



### About RhySearch

The Optical Coating Center of RhySearch, the Center for research and innovation in the Alpine Rhine Valley, offers following services:

- Dual Ion Beam Sputtering for the deposition of high quality optical thin film coatings
- Laser Induced Damage Threshold testing
- Cavity Ring Down measurements

Our goal is to further knowledge in the field of thin film coatings in order to support the optics and laser manufacturing communities. To achieve this aim we work together with renowned research institutes.

### Contact us

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