



# High-Precision Diffractive Optics for X-ray and EUV applications

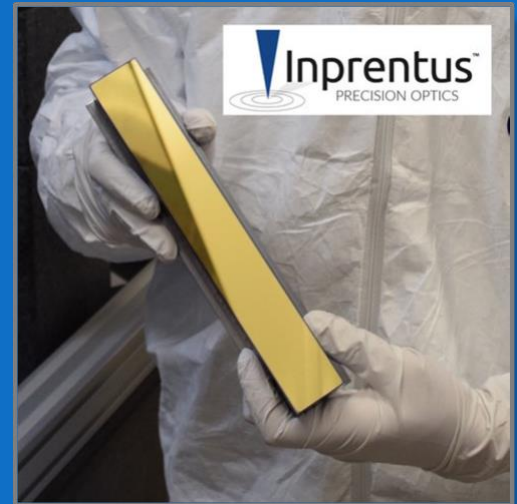
Inprentus designs, manufactures and sells blazed diffraction gratings for x-ray and EUV applications for synchrotron, free electron laser, as well as high powered laser applications requiring chirped pulsed amplification as well as a variety of spectrometer and monochromator applications.

## Blazed Diffraction Gratings

- Custom VLS gratings for spectrometers and monochromators
- FEL gratings for self-seeding and photon diagnostics
- CPA Gratings for high powered lasers
- Master Gratings for OES systems and other spectroscopies
- Echelle gratings for laser applications

## Key Features

- Blaze angles from  $0.1^\circ$  to  $80^\circ$
- VLS - Variable Line Spaced gratings
- Ruling on curved substrates - concave, convex, toroidal
- Resolving power above 100,000
- High damage threshold
- Overcoating available
- Dimensions up to 500 x 200mm
- Line densities from 50 to 6000 l/mm
- Gold (Au) coated ruling surface with silicon or fused silica substrates
- Simulation services and grating design optimization services



Contact us with for your next diffraction grating project

Inprentus, Inc. 51 East Kenyon Road Champaign IL 61820 USA

Telephone: +1 217 239 9862 Email: [info@inprentus.com](mailto:info@inprentus.com)

[www.inprentus.com](http://www.inprentus.com)