



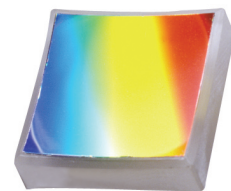
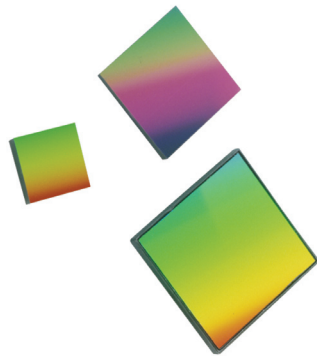
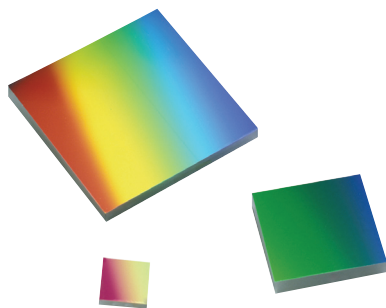
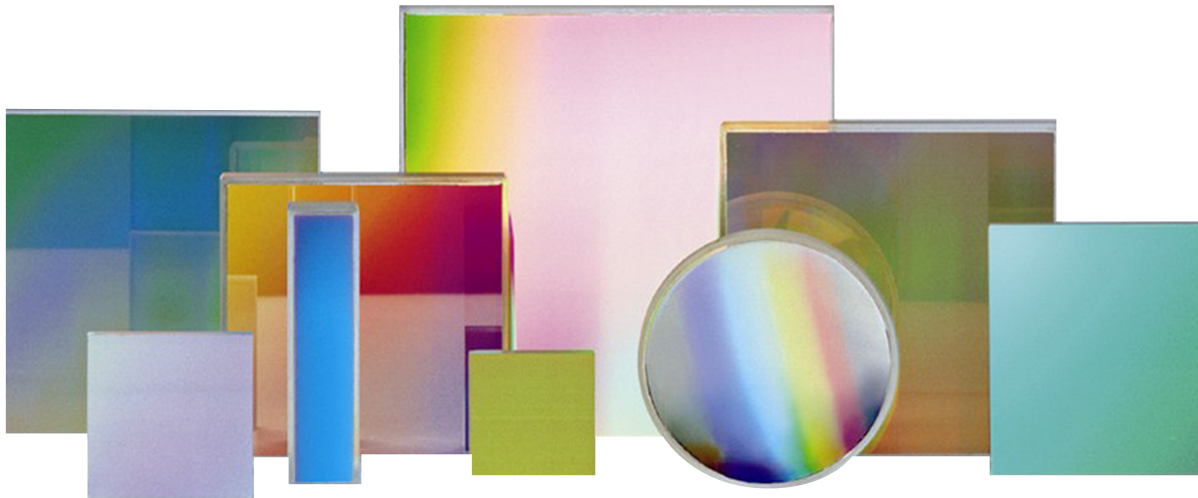
C3 PROZESS- UND
ANALYSENTECHNIK GmbH

PRODUKTINFORMATION

Optische Gitter

OEM Kunden

Diffraction Gratings for OEM and Scientific Applications




Richardson Gratings™
A Newport Corporation Brand

Ruled and Holographic Diffraction Gratings for OEM and Scientific Applications

A Long Tradition of Excellence

- founded in 1947 by Bausch & Lomb
- part of Newport Corporation, a \$500M+ photonics company

Reflection and Transmission Gratings

- plano holographic gratings (including Sheridan gratings)
- concave holographic gratings
 - aberration-reduced • Rowland circle
- plano ruled gratings (including echelle gratings)
- concave ruled gratings • mosaic gratings • grisms

A Focus on OEM Customers

- analytical instrumentation manufacturers
 - spectrometers and spectrophotometers
 - fluorescence and phosphorescence instrumentation
 - Raman instruments • color measurement instruments
- optical systems manufacturers
 - monochromators • spectrographs
- fiber-optic telecommunications equipment manufacturers
 - (DE)MUXs • ROADMs • OSAs
- laser manufacturers
 - laser tuning • line narrowing • pulse compression

Standard and Custom-Designed Product Capabilities

- custom mastering capabilities for ruled and holographically-recorded master gratings that meet unique requirements
 - ruled & holographic masters • optical design capabilities
 - design for manufacturability
- replication capability for high-volume production
 - quantities from prototype to thousands per month
- hundreds of master gratings to choose from
 - groove frequencies from 30 to 4000+ per millimeter
 - sizes from 2 x 2 mm to 320 x 420 mm and larger
 - several reflection coatings available:
 - Al, Au, Ag, with dielectric overcoatings if required
 - various substrate materials (glass and metal)

Product Consistency and Quality

- metrology & inspection
 - diffracted wavefront characteristics • cosmetic quality
 - diffraction efficiency – UV, Vis and NIR
 - ghost and scattered light intensity • spectral resolution
- quality system based on the ISO 9001 standard

Flexible and Secure Delivery

- kanban arrangements • blanket orders
- two world-class manufacturing facilities





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