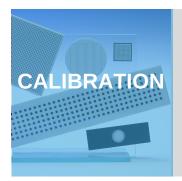


Graticules Optics is unique in offering photolithographic products on glass, film and in metal foil, with the added bonus of coatings, cementing, mounting and small optical assembly.

With a pedigree going back over 70 years, Graticules Optics is a proven world-class designer and manufacturer of precision micropattern products. We specialise in providing standard and custom solutions, working closely with our customers to achieve an optimum conclusion. We export globally to a diverse range of industries including light microscopy, electron microscopy, metrology, defence, aerospace and instrumentation.



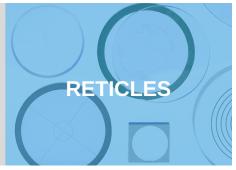
Stage Micrometers, Long Scales and Calibration Grids

High Resolution products used for calibrating microscopes, imaging systems, co-ordinate measuring equipment and metrology instruments. Available with calibration certificates traceable to international standards.



microscopy to military.

Metallic coated or etch and fill images with options of cover glassing, lens cementing and mounting if required.



Electron Microscopy Support Grids

Standard range of square mesh, hexagonal, holes, slots, finders, index grids and specialist patterns in numerous materials.

Custom and FIB grids made to individual requirements.



APERTURES

Slits and Pinholes

High precision electroformed-foil and chrome on glass pinholes and slits. Single and multiple apertures with option of mounting in standard or custom mounts.



USAF, Star, Ronchi and more

To test optical characteristics such as resolution contrast, distortion, modulation transfer function (MTF) of lenses, cameras and optical systems.

COUNTING CHAMBERS

Sedgewick Rafter, Howard, Haemocytometers

Wide variety of products for biological applications.

Manufacturing Services

Graticules Optics offers flexible tailored solutions to deliver bespoke micropattern designs for one-off product as well as large production volumes. Precision images are available on glass, ceramic and film or in metal foils to suit the exact application needs.

PHOTOLITHOGRAPHY

Process to transfer very high definition positive or negative images from a master onto a substrate.

ELECTRO-FORMING & ETCHING

Facilities to manufacture precision metal foil products (high definition edge and shape, double plating, various materials such as copper, nickel, gold, aluminium, etc.).

ANTI-REFLECTIVE COATINGS

From single layer to multi-layer coatings ranging from the visible to the infra red.

DEPOSITION COATING

Coating capabilities for deposition of chrome, gold, silver, copper, aluminium, etc.

PHOTOMASK CREATION

Wide range of photomasking and artwork processes available to suit all application needs.

OPTICAL ASSEMBLY AND CEMENTING

Optical manufacturing facilities providing services such as mounting of apertures into housings, cementing of lens doublets and alignment of reticles into optical assemblies, etc.

Application



METROLOGY

Linear Gratings • Positional Calibration Plates • Calibration Scales • Grids • Screens • Encoder Disks



RESEARCH

Resolution Charts • Targets
• Precision Apertures •
Bacterial Examination
• Culture Growing



OUALITY CONTROL

Calibration Standards • Scales • Grids • Precision Apertures • Asbestos Analysis



LIGHT MICROSCOPY

Eyepiece Reticles • Stage Micrometers • Calibration Standards



ANALYTICAL INSTRUMENTATION

Calibration Targets •
Precision Slits • Pinholes •
Spectrometer Entrance Slits



DEFENCE & AEROSPACE

Binocular Reticles • Gunsight Reticles (Day and Night) • Boresights Targets • Resolution Charts • Prism Reticles



ELECTRON MICROSCOPY

TEM Grids • Aperture Plates Type • FIB Lift-Out Grids

