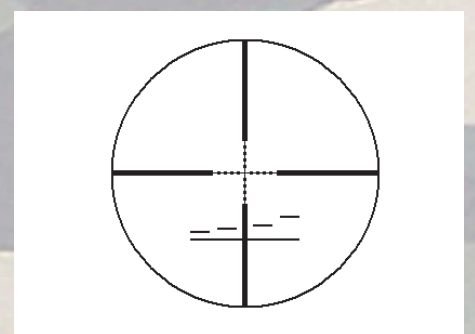
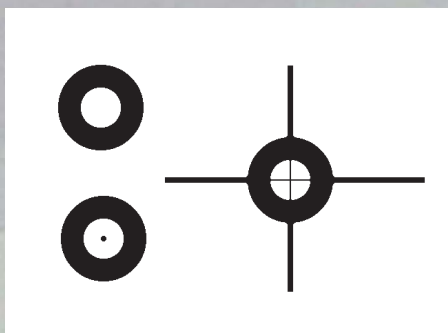
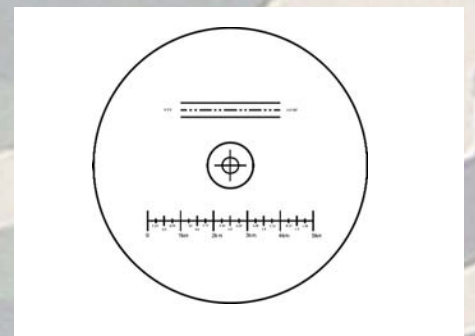
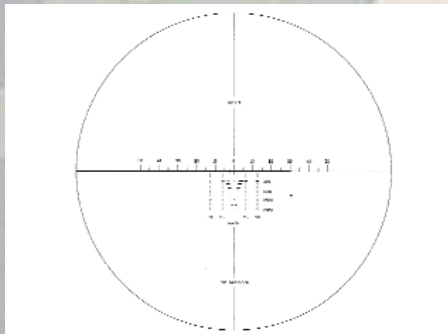




DEFENCE RETICLES

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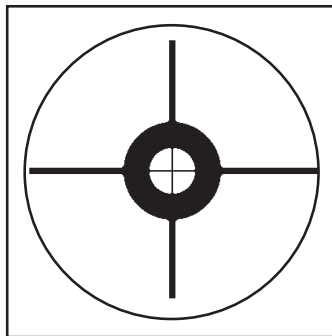


Capability

Pyser-SGI has over 60 years experience in producing high quality micro-pattern products. These products are supplied worldwide to industries including defence, metrology, medical, microscopy, analytical instruments, and many more. All procedures at Pyser factories are accredited to ISO 9001:2000 quality standards.

Over the years Pyser has developed specialised processes to manufacture the most complex of products.

Whether you are looking for a one-off prototype or a production run of thousands, Pyser has the experience and capability to help you. If you are looking for glass, film or metal foil products please send us your specifications.



■ Reticles – Day/Night

- Gun sights
- Tank sights
- Range finder
- Bore sights
- Binoculars

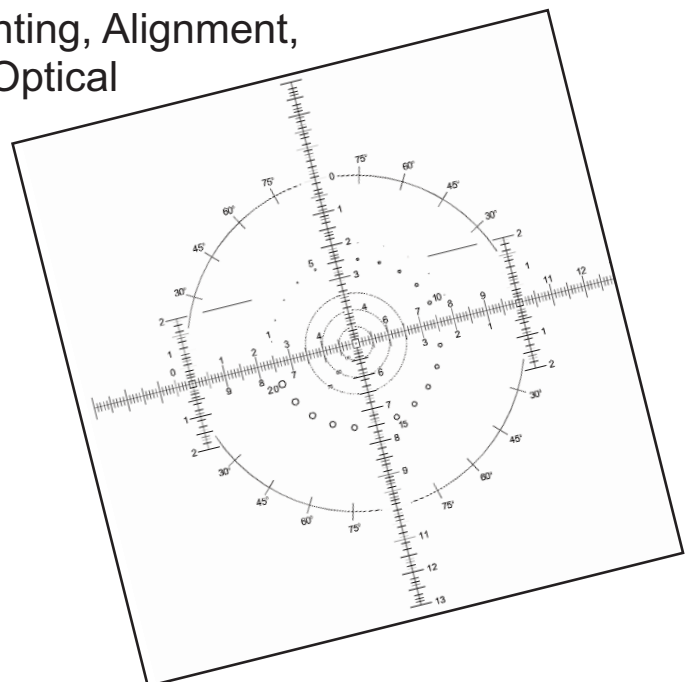
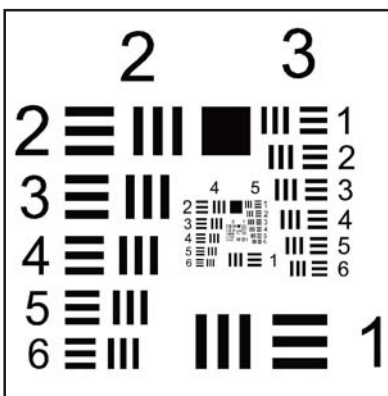


■ Alignment/Calibration targets

■ Resolution/Test charts

■ Apertures for Lasers

■ Cementing, Mounting, Alignment, Doublets, Small Optical Assembly



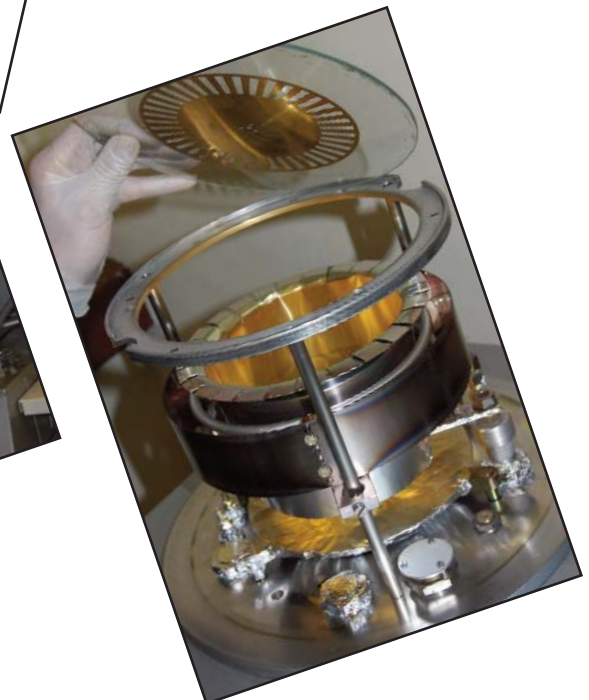
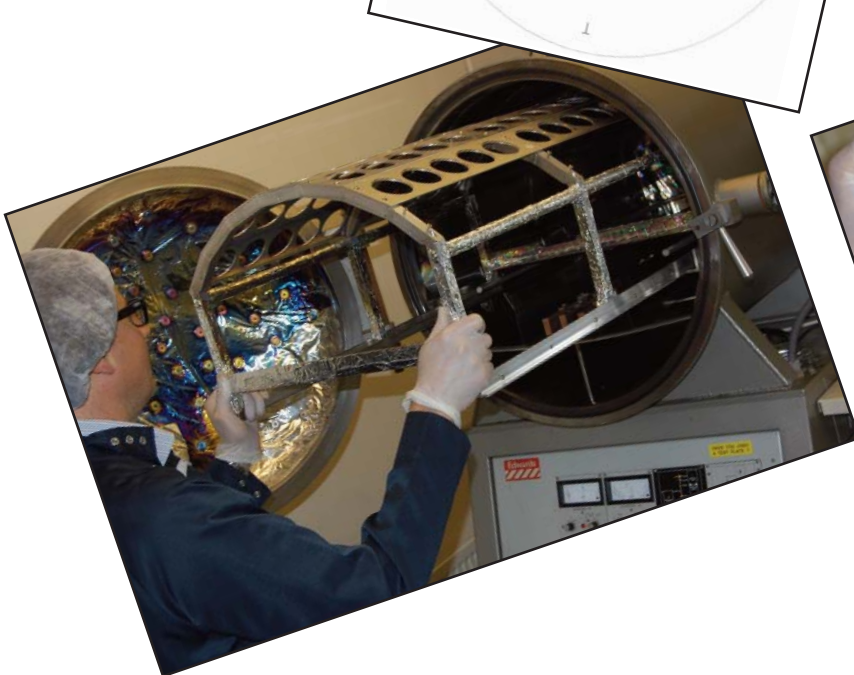
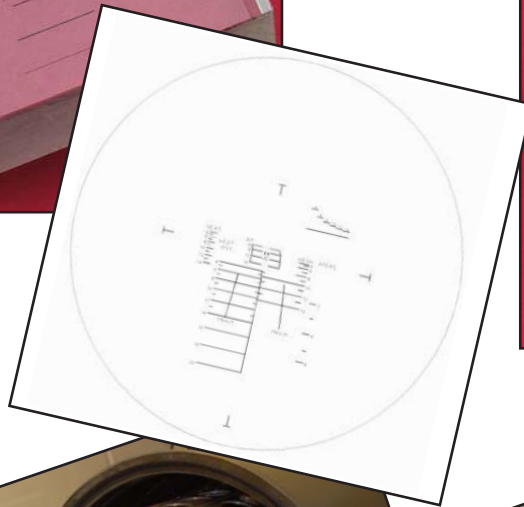
Reticles for Military Applications – Visible & IR

- Etch and Fill
- Chrome Deposition
- Chrome Oxide Deposition (Black Chrome)
- Aluminium Deposition/Titanium Oxide Coating
- Anti-Reflective Coating – Single or Multi-Layer
- Film Reticles

For over 6 decades Pyser-SGI has been manufacturing high quality reticles and targets for military applications.

For binoculars, telescopes, rifle sights, sighting systems and calibration systems Pyser-SGI has the capability to produce quality components. Products are manufactured to MIL, DIN, BS or customers own standards.

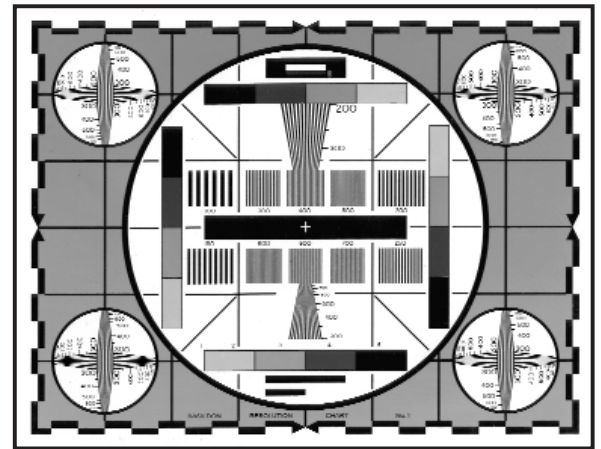
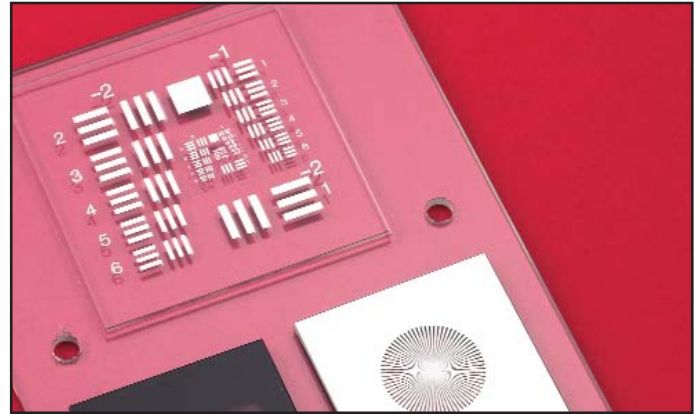
From simple crosslines to complex sighting patterns; from vacuum chrome deposited images to etch and fill doublet assemblies, Pyser-SGI has the experience to supply your exact requirements. If you need anti-reflective coatings we can do those too.



Resolution and Test Charts

The range includes such classic patterns as the NBS USAF test chart, the Star Test Chart and the Sayce Test Chart.

If the pattern you require is not in our current range, we can make new versions on glass or film.



Small Optical Assembly

Pyser-SGI manufacture a wide range of specialist optical equipment for the military market. This experience, coupled to that of the Graticules division, allows us to offer small assembly production.

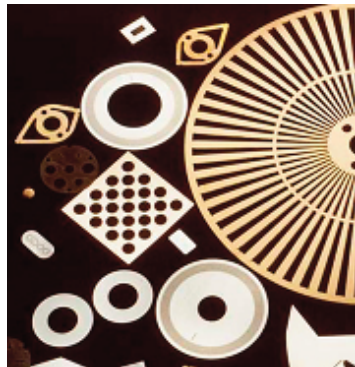
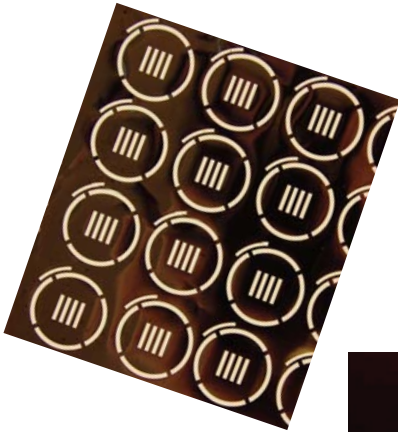
Many companies are looking at ways to save costs, and many more regard small assembly work as a problem area. We at Pyser-SGI have been doing this work on our own products for many years and are now offering this service to all our customers.

If you have a specific requirement then please send us your drawing or specification.



High Precision Apertures

- Pinholes with High Edge Definition and Roundness
- Slits with Exceptional Parallelism, Edge Definition and Straightness
- Electroformed or Chrome Deposition

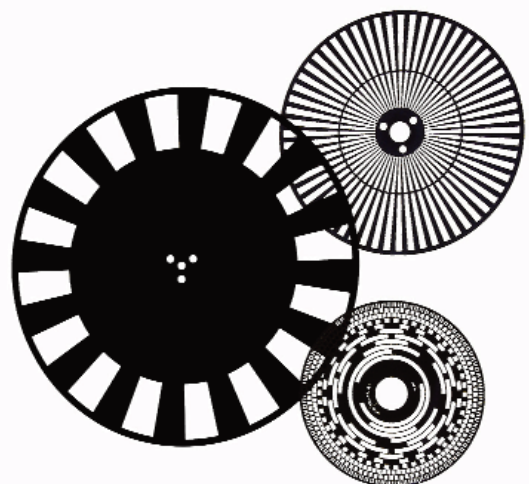


The demands of the optical industry for better quality apertures has led Pyser-SGI to introduce new high definition pinholes and slits. Made to standard or custom designs, these precision apertures have excellent edge definition and exceptional shape accuracy.

Nowadays getting a well-defined image without beam scatter is essential in quality laser benches used in refractometers and other devices. The spectrometry field is also demanding better precision slits for greater wavelength definition.

The processes of electroforming for foil products and vacuum deposition for glass products can be used to manufacture the aperture pattern required to a very high degree of accuracy and repeatability. Aperture sizes start from 1 micron for pinholes and 5 micron width for slits. Multiple and strip apertures can be supplied to customer specifications.

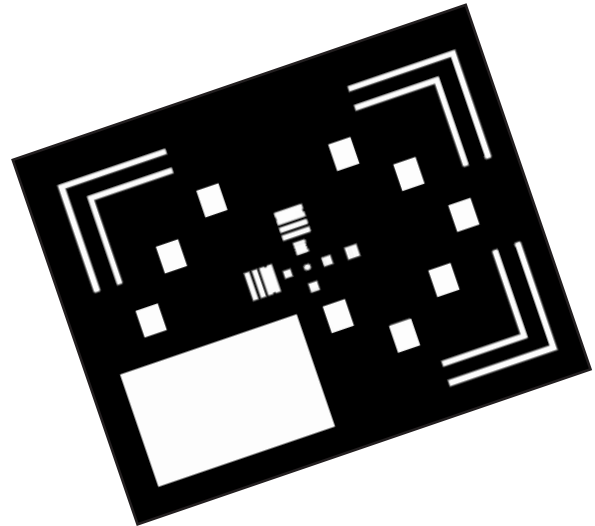
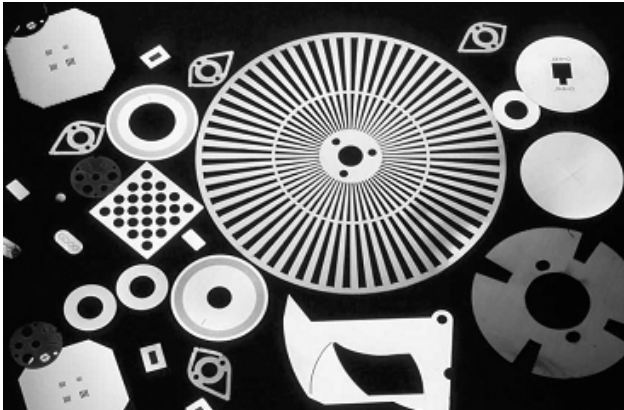
Pyser-SGI manufacture apertures in many types of metal foils and they can be fixed in mounts for added rigidity. An alternative production technique where chrome is vacuum deposited on glass, can provide users with aperture patterns of very high complexity.



Metal Foil Products

- Precision apertures, choppers, filters, encoder discs, etc.

Many military products require precision metal foil components. Pyser-SGI utilise electroforming and etching techniques to produce products in many types of metal foil to a very high precision. Double plating can be used to provide components with increased rigidity.



Aperture Manufacture, Mounting and Alignment

The manufacturing of precision apertures in metal foil and on glass has long been carried out by Pyser-SGI. We can now take this a step further by offering a mounting and alignment service.

Many optical instruments such as laser benches require an aperture to be accurately positioned in a mount or boss. By developing special tooling and alignment jigs, Pyser-SGI is able to provide a reliable solution.

