

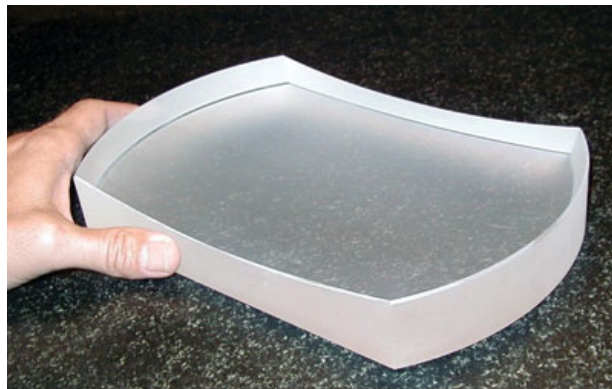


TOROIDS

Toroidal mirrors are focusing devices that have two different radii whose axes are oriented at 90° to each other. Toroids offer advantages where a beam must be focused and folded. Rather than using both a spherical mirror and a plane mirror for this purpose, both functions may be combined in one element. The lower number of optical elements increases energy throughput, saves money and also allows for more compact designs. Toroidal mirrors may also be used to correct for the astigmatism that result when a spherical mirror is used off axis.

Applications

- X-ray imaging
- Spectroscopy
- Anamorphic focusing
- Beam correction
- Beam shaping
- Beam folding
- Component reduction



Toroids Specifications

- Up to 500mm (largest dimension)
- Range of shapes.
- Concave and Convex radii
- Very high grazing angle options
- Surface accuracy up to $\lambda/10$ P-V at 633nm
- Surface Quality: 10/5
- Microroughness typically less than 1.2nm RMS
- An extensive range of coatings available
- Engineering and mounting service

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