



High precision flat mirrors

Optical Surfaces Ltd. is a leading manufacturer of **large, high precision flat mirrors** used in a wide variety of applications including beam steering, beam folding, interferometry and as optical components within imaging systems.

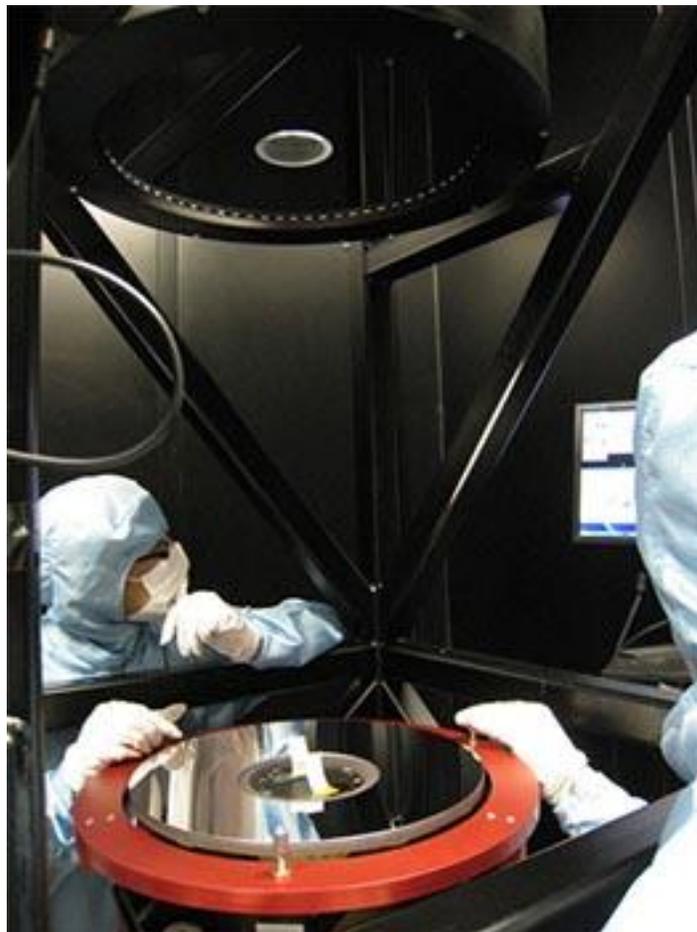


Image Caption: a 475mm diameter flat mirror

Working in a thermally stable production environment

– the experienced optical engineers at Optical Surfaces Ltd. can regularly achieve surface accuracies of better than $\lambda/20$ peak to valley on flats up to 750mm in diameter. Achieving high



surface accuracy, top surface quality (10/5) and typical microroughness of less than 1.0nm RMS on flat mirror substrates decreases the amount of light lost through dispersion.

Flat Mirrors from Optical Surfaces Ltd

are often manufactured in highly stable optical materials such as Zerodur® and ClearCeram®-Z. The most common coating on flat mirrors is aluminium which offers good reflectivity in the UV, visible and mid-infrared spectral wavebands. Protected silver coatings provide the highest reflectivity for flat mirrors operating in the visible and protected gold is the most efficient coating for infrared applications. For high power laser applications, a multilayer dielectric coating can be applied directly to the substrate surface.

All optical flats and flat mirrors from Optical Surfaces Ltd.

come with full quality testing assurance. Optics up to 600 mm diameter are provided with a Fizeau interferometric test report, larger flats are quality assured using the Ritchey-Common test procedure.

For further information

please visit <https://optisurf.com/flats/> or contact Optical Surfaces Ltd. on +44-208-668-6126 or sales@optisurf.com.

Optical Surfaces Ltd.

has been producing large, high precision flat mirrors for more than 60 years and is today internationally acknowledged for its technical expertise, attention to quality and customer service.

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