

Application Systems

Optics &

Optical

Opto-Mechanics

Coatings

Master Optics **Custom-made**

We will fabricate custom substrates to your request of shape, size, reflected wavefront and transmitted wavefront with high precision.

Production of large-diameter optical grade polishing to 300mm diameter maximum is available. We can also provide special processing, such as drilling hole or rectangular shape.

- A data of transmitted wavefront measurement or reflected wavefront by the interferometer is provided.
 - We offer a selection of substrates made from various low-expansion material suitable to the required accuracy and environment of your usel.
 - Thin film coatings are also available on the master optics. However, depending on the type of coating it we may not be able to guarantee the surface flatness.

Bases

Manual Stages

Actuators & Adjusters

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Light Sources & Laser Safety

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Guide

Mirrors

Beamsplitters

Polarizers Lenses



Specifications	
Maximum Diameter	φ300mm
Proper thickness	50 – 38mm (Approximately 1/6 to 1/8 of diameter)
Clear aperture	90% of actual aperture
Material	Various synthetic fused silica or low-expansion glass.
Surface flatness	$\lambda/10$ (It may vary depending on the thickness and outer diameter.)

Guide

- Optical flats (HMPQP / HMPZP) that has been standardized by the reflecting surface flatness are available.
- Optical flats (OFPXP) with surface flatness of λ /10 and less ϕ 150mm are available

Attention

- Surface flatness may not be guaranteed if coating is applied to master optics.
- Due to the difficulty in procurement of the materials and processing conditions, lead-time may be longer, please check with our Sales Division for accurate delivery.
- If the holder is fixed to the master optics, by tightening screws too strongly, or the use of curable adhesives the surface flatness may be reduce on the master optics.



Prisms

Substrates/Windo

Optical Data

Maintenance

Selection Guide Low Scattering **Optical Flats Optical Parallels** Wedged Substrates

Concave Mirror Substrates **Master Optics**

Windows



Surface accuracy measurement method: Measured with Zygo laser interferometer

Surface accuracy measurement wavelength

632.8nm

Surface accuracy guaranteed temperature 23°C±2°C

Surface flatness data (reference data)



Analysis of three-dimensional data

