

Custom Optics

Unifibre accept order for custom designed optics. Please let us know what's you need, our engineer will provide a full solution for your applications. Surely, we accept customer designed orders. Please send us your design, we'll make it real for you.

Our range of custom optics is list below for your information:



Products:

Optical window, Waveplate, Lens, Filter, Mirror, Beamsplitter, Prism, etc.

Processes:

Complete optical production line including:

Raw material cutting; Grinding; Double sides polishing; Precision polishing; Optical coating; ultrasonic cleaning; Opto-mechanical assembly; Black painting; Drilling;

Material:

Optical glass (such as BK7), Float glass, Filter glass (Colored glass); Fused silica, Crystal quartz, Sapphire, Crystal silicon, ZnSe, etc.

Specification of optical components:

Dimension Tolerance: Commonly $\pm 0.1\text{mm}$; Up to $\pm 0.0003\text{mm}$

Angle Tolerance : Commonly $\pm 3'$; Up to $\pm 3''$

Parallelism : Commonly $\pm 1'$; Up to $\pm 0.5''$

Flatness : Commonly $L/4@632.8\text{nm}$; Up to $L/15@632.8\text{nm}$

Wavefront Distortion : Commonly $L/4@632.8\text{nm}$; Up to $L/20@632.8\text{nm}$

Surface Quality: Commonly 60-40 scratch and dig; Up to 10-5 scratch and dig

Waveplate retardation Tolerance: Up to $L/500$

Optical Coating:

AR coating, Hight reflection coating, Filter coating, Beam splitter coating, Al, Silver or Gold coating. Please refer to the optical coating datasheet for details.