

Precision Optical Lenses Datasheet

Felix Glass specializes in custom precision optical components for machine vision, laser systems, medical optics, spectroscopy and industrial imaging. OEM & ODM manufacturing services are available worldwide. Document No. : FG-LENS-001 | Rev.1.0 | Issue Date:2026

Core Specification Table

Item	Specification
Substrate Materials	H-K9L/BK7, Fused Silica, Sapphire, ZnSe, Ge, YAG Laser Crystal
Lens Product Types	Spherical Lenses, Aspheric Lenses, Laser Focus Lenses, Achromatic Doublets, Plano Convex/Concave, Meniscus Lenses
Diameter Size Range	2mm - 300mm, fully customized
Surface Flatness	Up to $\lambda/20$
Surface Polish Quality	Up to Class 00
Centration Tolerance	$\leq 0.005\text{mm}$
Focal Length Tolerance	$\pm 0.5\%$
Available Coatings	Broadband AR, Laser Wavelength AR, HR High-Reflection, DLC IR Hard Coating
Custom Service	OEM/ODM custom radius, thickness, edge treatment, coating design

Product Category Introduction

1. Spherical Lenses: Cost-effective collimation & focusing for general industrial imaging
2. Aspheric Lenses: Eliminate spherical aberration, high-resolution compact optical systems
3. Laser Focus Lenses: Optimized single wavelength coating for fiber, CO2, UV & femtosecond laser cutting/marking
4. Custom Special Lenses: Achromatic doublets, cylindrical, meniscus & multi-element custom lens assemblies

The information contained in this document is provided for reference only. Final specifications are subject to mutually approved engineering drawings, production capability review, and customer project requirements.