

Precision Glass & Plastic Aspheric 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-CUSL-001 | Rev. 1.0 | Issue Date:2026

Core Specification Table

Item	Specification
Raw Materials	H-K9L/BK7, Fused Silica, Sapphire, PMMA, PC optical resin
Main Types	Glass Polished Aspheric Lens, Molded Plastic Aspheric Lens, Diamond Turned Ultra-Precision Aspheric Lens
Size Range	0.5mm - 200mm custom diameter
Surface Precision	Aspheric surface accuracy up to $0.1\mu\text{m}$, surface quality Class 00
Aberration Correction	Greatly suppress spherical aberration, reduce distortion, improve resolution
Coating Options	Visible broadband AR, UV AR, IR anti-reflection coating, scratch-resistant hard coating
Manufacturing Tech	Single-point diamond turning, glass precision polishing, injection molding, compression molding
Custom Service	Custom aspheric coefficients, focal length, edge blackening, multi-lens assembly, optical design simulation

Product Brief

- Glass Aspheric Lenses:** High temperature resistance, low creep, ideal for laser and high-end industrial imaging
- Molded Plastic Aspheric Lenses:** Low cost for mass production, lightweight for automotive and consumer optics
- Ultra-Precision Diamond Turned Aspherics:** Ultra-low surface error for aerospace and medical micro-optics

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.

Hong Kong Felix Glass Co., Limited Custom Optical Components Manufacturer | www.felixglass.com | sales@felixglass.com