

# Technological Breakthroughs in Microlenses

## ● Leading the Future of Precision Optics

Today, with the rapid development of optical technology, micro-lens optical components have emerged as the core components in the photonic industry due to their high precision, miniaturization and outstanding optical performance. We focus on the research and development as well as processing of micro-lens components. Over the years, we have been driven by innovative technologies and have been providing customized solutions to our customers, helping to achieve breakthroughs in cutting-edge application fields.

## ● Microlenses - Precision at the Micro Scale

With many years of experience in microlens production, ECOPTIK offers a comprehensive range of high-performance microlenses that meet the most stringent dimensional and optical standards. Each microlens undergoes meticulous processing and polishing to ensure minimal scattering, reduced wavefront distortion, and excellent diffraction control.



## ● Microlens Specifications:

Materials: BK7, H-ZF13, S-LAH79, and other optical glasses

Diameter Range: 0.3 mm – 5 mm

Diameter Tolerance:  $\pm 0.001$  mm

Centration Tolerance: < 10 arc seconds

Clear Aperture: > 90% of diameter

Surface Quality: 10/5

Surface Accuracy:  $< \lambda /10$  @ 633 nm

These microlenses are widely used in imaging systems, fiber optics, medical devices, and laser applications.

At **Ecoptik**, we are committed to pushing the boundaries of optical innovation. Our continuous investment in R&D and high-precision manufacturing ensures we deliver world-class products that empower next-generation optical systems.

**Contact us** today to learn how our advanced components can elevate your optical solutions.

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