

AXICONS

In contrast to an aspheric lens, the shape of an axicon resembles a cone. The conical shape generates ring-shaped beam profiles, which can be used in a variety of applications. Discover our selection of customized and stocked axicons.

Specifications	Custom Axicons	StockOptics Axicons
Diameter	1 – 420 mm	25.4 / 50.8 mm
Diameter Tolerance	+/- 0.03 mm	+/- 0.1 mm
RMS Irregularities (RMS _r)	40 nm	≤70 nm
Surface Imperfections (Scratch/Dig)	20 - 10	40 - 20
Coating	Customer-specific	4 standard coatings ¹
Laser Damage Threshold	Customer-specific	12 J/cm ² , 100 Hz, 6 ns, 532 nm
Full-surface Interferometric Measurement	Optional	Optional
Materials	Customer-specific (almost every type of glass, silica, germanium, silicon, IR lenses, zerodur)	Fused silica
Mounting	Customer-specific	Available for selected lenses
RoHS & REACH Conformity		Certified

¹ A: R_{MAX}<1.0%, R_{AVG}≤0.4%, 400-600 nm, AOI=0° | B: R_{MAX}<1.0%, R_{AVG}≤0.4%, 600-1050 nm, AOI=0° | C: R_{MAX}<1.0%, R_{AVG}≤0.4%, 1000-1600 nm, AOI=0° | X: R_{MAX}<1.0%, R_{AVG}≤0.4%, 240-380 nm, AOI=0°

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