

## 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	12.7 / 25.4 / 50.8 mm
Diameter Tolerance	± 0.03 mm	± 0.1 mm
RMS Irregularities (RMS <sub>i</sub> )	40 nm	≤ 70 nm
Surface Imperfections (Scratch/Dig)	20 - 10	40 - 20
Coating	Customer-specific	15 Standard coatings <sup>1</sup>
Laser Damage Threshold	Customer-specific	12 J/cm <sup>2</sup> , 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

<sup>1</sup> A: R<sub>MAX</sub> < 1.0%, R<sub>AVG</sub> ≤ 0.4%, 400-600 nm, AOI=0° | B: R<sub>MAX</sub> < 1.0%, R<sub>AVG</sub> ≤ 0.4%, 600-1050 nm, AOI=0° | C: R<sub>MAX</sub> < 1.0%, R<sub>AVG</sub> ≤ 0.4%, 1000-1500 nm, AOI=0° | E: R<sub>MAX</sub> < 1.0%, R<sub>AVG</sub> ≤ 0.4%, 1500-1900 nm, AOI=0° | F: R<sub>MAX</sub> < 1.0%, R<sub>AVG</sub> ≤ 0.4%, 1900-2100 nm, AOI=0° | X: R<sub>MAX</sub> < 1.0%, R<sub>AVG</sub> ≤ 0.4%, 240-380 nm, AOI=0° | Y: R<sub>MAX</sub> < 1.0%, R<sub>AVG</sub> ≤ 0.4%, 320-450 nm, AOI=0° | K: R < 0.25%, 355 nm, AOI=0° | L: R < 0.25%, 532 nm, AOI=0° | M: R < 0.25%, 1064 nm, AOI=0° | N: R < 0.25%, 266 nm, AOI=0° | O: R < 0.25%, 632 nm, AOI=0° | P: R < 0.25%, 780 nm, AOI=0° | Q: R < 0.25%, 1550 nm, AOI=0° | R: R < 0.25%, 2000 nm, AOI=0°

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