







Specifications Materials N-BK7, UVFS **Diameter** 10, 12.7, 20, 25.4, 50.8 mm (others on request) **Diameter tolerance** +0/-0.1 mm Thickness tolerance +/-0.1 mm 90° - 178° Apex angle (b) **Angle tolerance** +/- 30" Clear aperture > 90 % **Surface quality** 60/40 scratch/dig AR, AI, Ag Coatings (specified by customer) Damage threshold (at 1064 nm) a) 350 MW / cm² b) 500 MW / cm² c) 1 GW / cm²

General

- Generating a non-diverging laser ring
- Create a Bessel-like beam intensity distribution

An axicon consists of a plano and a conical surface. This geometry focuses the incoming laser beam to an area with nearly constant intensity distribution along the optical axis. After passing the axicon, the beam becomes a Bessel beam-like ring with constant thickness D/2, independent on the projection distance.

Typical applications

- Laser material processing
- · Optical tweezers / optical trapping
- Laser eye surgery
- Telescopes

Standard components	Number	Diameter (mm)	Apex angle (°)
	PL.AX.D25.A1	25.4	178
For any customized specification, please	PL.AX.D25.A10	25.4	160
contact us.	PL.AX.D25.A20	25.4	140
L L	PL.AX.D25.A45	25.4	90
$D = 180^{\circ} - 2a$			

