

LINOS Variable Beam Expanders

Variable Magnification up to 2x ... 8x

LINOS beam expanders are optical systems for beam shaping used in laser material processing. Variable beam expanders can vary the diameter and divergence of a laser beam and allow optimisation of focus diameter, focus position and beam propagation.

Features

- Continuous variation of magnification 2x...8x
- Continuous variation of exit beam divergence
- Choice between fused silica or glass entrance lens
- Wavelengths 355 nm, 532 nm, 633/780/830/980 nm or 1064 nm
- Precise scales allow reliable settings and high repeatability

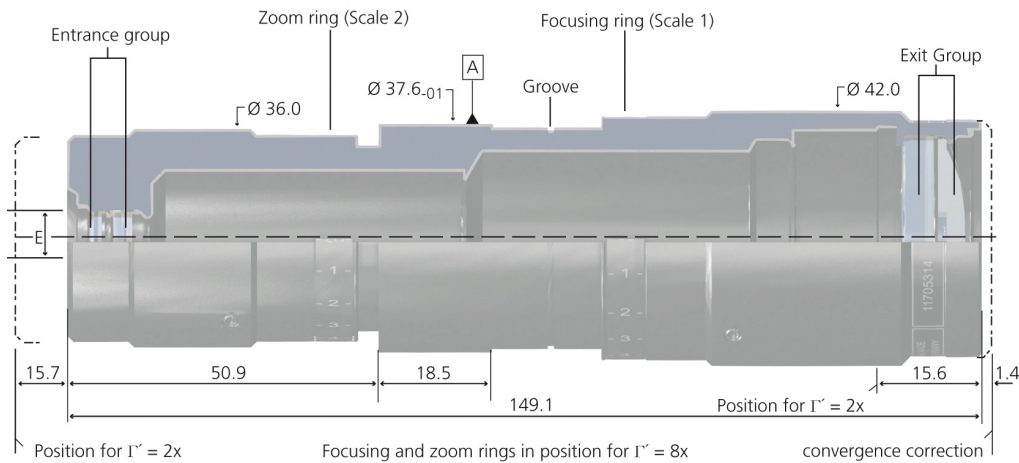
Technical Data

- Maximum entrance-beam diameter 8 mm
- Maximum exit-beam diameter 31 mm
- 4-lens-element designs
- Mounting diameter 37.6_{-0.01} mm, reference on surface A



LINOS Variable Beam Expander 2-8x

Wavelength (nm)	Wavelength range antireflective coating (nm)	Max. entrance-beam diameter at $1/e^2$ (mm)	Entrance lens made of	Part No.
355		3.4	fused silica	4401-402-000-20
532	515-540	4	fused silica	4401-446-000-20
532		8	optical glass	4401-257-000-20
633/780/830/980	630-980	8	optical glass	4401-258-000-20
1064	1030-1080	4	fused silica	4401-359-000-20
1064		8	optical glass	4401-256-000-20



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