



Diffractive Optical Elements (DOE) for laser beam shaping

DOEs are used to shape an incident laser beam and implement a desired function like homogenizing, collimating, patterning, points focusing,...SILIOS provides customized DOEs for various lasers such as Nd:Yag, CO2, Femtosecond or Laser Diode. Depending on the requirements of the application, DOEs work either as hologram or as Fresnel zone plate optics.

Specifications*

Substrate

Diameter: up to 100 mm

Thickness: from 0.5 mm to 9.5 mm Material: fused silica, BK7, ...

Coating: AR coating (for plate) or Rmax coating (for mirror)

Encoded Phase Map

Data: Phase Map data provided by customer.

Pixel size: down to 1 x 1 microns²

Encoded Phase Profile: etched multilevel profile (Up to 256 levels)

Wavefront PTV: 0 to 2π

Examples of beam shaping

Circular or square top-hat profile, matrix, grid, line, circle patterning, ...

Fields

Laser machining, medical, imaging systems, sensors

Category

Phase component

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^{*} Please contact us for other specifications

