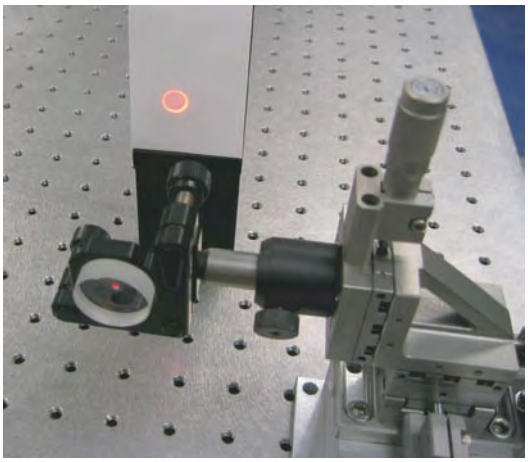
Axicon

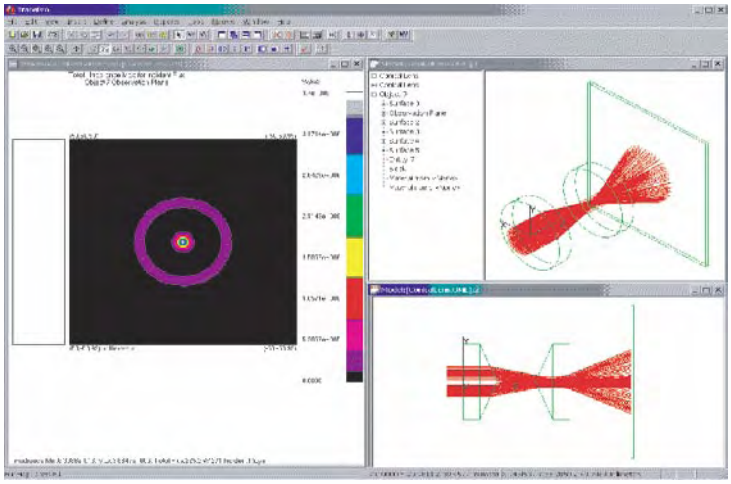
Rotationaly Symmetric Prism



Axicon lens also known as conical lens or rotationally symmetric prism is widely used in different scientific research and application. Axicon can be used to convert a parallel laser beam into a ring, to create a non diffractive Bessel beam or to focus a parallel beam into long focus depth.

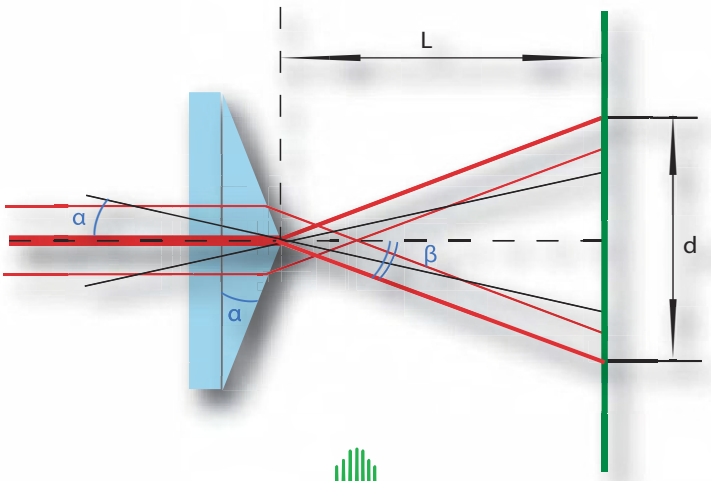
Del Mar Photonics offers axicons with cone angles range from 140° to 179.5° for use with virtually any laser radiation. We manufacture and supply axicons made from BK7 glass, fused silica and other materials.

Axicon design and analysis can be done using optical engineering software such as Zemax.



Axicon Applications

to convert a parallel laser beam into a ring
to create a non diffractive Bessel beam
to focus a parallel beam into long focus depth
in holographic data storage research



Axicon cone angle equal to 180°-2α

Cone angle (°)	a (°)
140	20
160	10
165	7.5
170	5
175	2.5
178	1
179.5	0.25 = 15'

DEL MAR PHOTONICS

4119 Twilight Ridge, San Diego, CA 92130, USA Tel:: (858) 876-3133 Fax:: (858) 630-2376
E-mail:: sales@dmphotonics.com URL:: www.dmphotonics.com