CYLINDRICAL LENSES

ecoptik[®]

Product Introduction



ECOPTIK manufactures the standard commercial and customized precision cylindrical lenses, plano convex cylindrical lens, plano concave cylindrical lens, double convex cylindrical lens, double concave cylindrical lens, meniscus cylindricallens, achromatic cement cylindrical lens, etc.

The cylindrical lens is a lens which focuses light into a line instead of a point, as a spherical lens would. The curved face or faces of a cylindrical lens are sections of a cylinder, and focus the image passing through it into a line parallel to the intersection of the surface of the lens and a plane tangent to it. The lens compresses theimage in the direction perpendicular to this line, and leaves it unaltered in the direction parallel to it (in thetangent plane). In a light sheet microscope, a cylindricallens is placed in front of the illumination objective to create the light sheet used for imaging.











Specification

Item	Commercial	High-Precision
Material	Optical glasses, fused silica, silica, etc.	
Diameter	0.5mm~150mm	
Dimension tolerance	±0.1mm	±0.03mm
Focal length	-50mm-2000mm	
Focal length tolerance	±2%(<10mm) ±0.5%(<10mm-1000mm) ±1%(>1000mm)	
Centration	<3 arc min	<10 arc sec
Clear Aperture	>85% of dimension	
Surface Quality	MIL60-40	MIL20-10
Surface accuracy	λ/4@632.8nm	λ/10@632.8nm
Chamfer	0.05~0.2mmx 45°	
Coating	As per the customers' request	

