

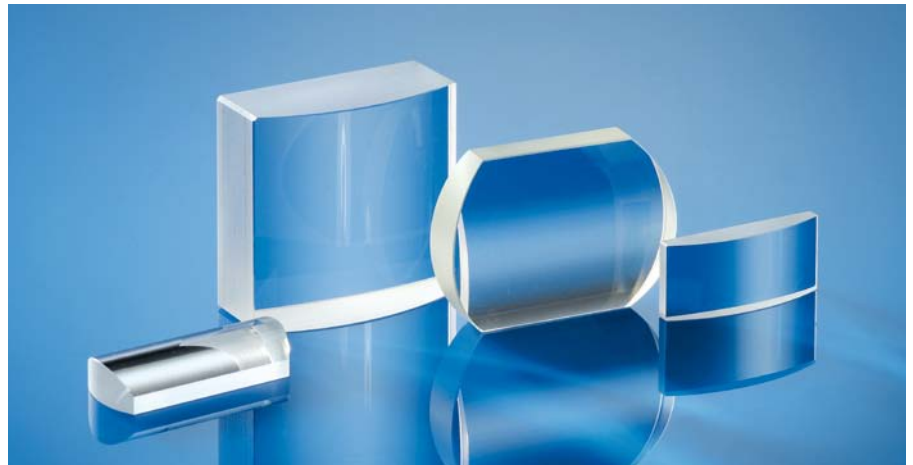
Cylindrical Lenses

Product Information

Cylindrical lenses have a spherical radius in one direction. This allows to focus the light in one axis. Thus a point of light could be stretched into a single line. Cylindrical lenses are used in various applications, for example for barcode scanning or laser projection.

Advantages

- SCHOTT masters the entire value chain from raw glass to cylindrical coated lenses
- Custom designed products at competitive prices
- Coating: all lenses can be coated to a specific custom design



Materials

- All types of optical glasses
- Fused silica and others
- ZERODUR® extremely low expansion glass ceramic

Forms of Supply

- Plano convex/concave circular
- Plano convex/concave rectangular
- Meniscus
- Lens bi-convex/bi-concave

Manufacturing Capabilities

Attribute*	Commercial Quality	Precision Quality	Precision Quality
Radius*		From 8 mm to 2000 mm**	
Dimensions*		From 5 mm to 200 mm	
Dimensional Tolerance*	+ 0,0/0,25 mm	+ 0,0/0,1 mm	+ 0,0/0,05 mm
Thickness Tolerance*	± 0,20 mm	± 0,10 mm	± 0,05 mm
Centering Tolerance*	< 15 arc minutes	< 6 arc minutes	< 2 arc minutes
Surface Accuracy*	2λ	λ	λ/2
Surface Roughness	< 25 nm	< 15 nm	< 5 nm
Surface Quality*	80/50	40/20	10/5
Typical Order Quantity*		From 1 piece to series production	

* Depending on customer's specification. Please contact our sales representative.

** Larger radius on request.



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