

a|Acylanders

Our attractive selection of aspheric cylinders with a RMS_s surface form deviation smaller than $0.5 \mu m$ are made from high-index-glass and can be especially used for laser applications.

Key Benefits:

- = Outstanding surface form deviation of $RMS_s \leq 0.5 \mu m$
- = Ideal line-focus without spherical aberration
- = Laser induced damage threshold: $12 J/cm^2$, 100 Hz, 6 ns, 532 nm
- = Off-the-shelf delivery
- = RoHS compliance
- = Available with 3 standard coatings¹:
 - A: $R_{MAX} < 1.0\%$, $R_{AVG} \leq 0.4\%$, 400-600 nm, AOI=0°
 - B: $R_{MAX} < 1.0\%$, $R_{AVG} \leq 0.4\%$, 600-1050 nm, AOI=0°
 - C: $R_{MAX} < 1.0\%$, $R_{AVG} \leq 0.4\%$, 1000-1500 nm, AOI=0°



Lens description

Surface Form Deviation (RMS_s) ²	[μm]	≤ 0.5
EFL Tolerance	[%]	≤ 0.1
Surface Imperfections	[Scratch/Dig]	60 - 40
Width Tolerance	[mm]	+0/-0.05
Length Tolerance	[mm]	+/-0.1
Center Thickness Tolerance ³	[mm]	± 0.05
Clear Aperture	[%]	≥ 90

Product Code	Size [mm]	EFL [mm]	NA	f/d	WD [mm]	λ_{Design} [nm]	Material
CHL10-08	10x10	8	0.54	0.8	6.3	780	S-LAH64
CHL12-10	12.5x12.5	10	0.55	0.8	7.2	780	S-LAH64
CHL15-12	15x15	12	0.54	0.8	9.2	780	S-LAH64
CHL18-15	18x18	15	0.53	0.83	11.6	780	S-LAH64
CHL20-18	20x20	18	0.49	0.9	14.3	780	S-LAH64
CHL25-20	25x25	20	0.54	0.8	15.8	780	S-LAH64
CHL30-26	30x30	26	0.52	0.87	21.5	780	S-LAH64
CHL45-32	45x45	32	0.61	0.71	24.7	780	S-LAH64
CHL50-40	50x50	40	0.55	0.8	32.1	780	S-LAH64

¹ Custom coatings available upon request. | ² RMS_s corresponds to ISO 10110-5 (surface form tolerances). | ³ For lenses CHL45-32, CHL50-40, please consider a center thickness tolerance of ± 0.1 .
General: Technical parameters and prices are subject to change without prior notice.

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