



α|Acylinders

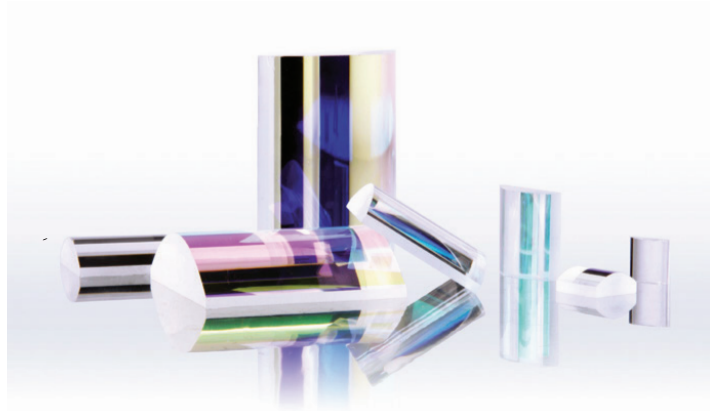
Benefit from our attractive selection of aspheric cylinders with a RMSi surface form deviation smaller than $0.5\mu\text{m}$. α|Acylinders are made from high-index-glass and can be especially used for laser applications. They are now also obtainable with high-precision mountings.

Key Benefits:

- Outstanding surface form deviation of RMSi $\leq 0.5\ \mu\text{m}$
- Ideal line-focus without spherical aberration
- Available with 3 standard coatings
- Laser induced damage threshold: $12\ \text{J}/\text{cm}^2$, 100 Hz, 6 ns, 532 nm
- Off -the-shelf delivery for short lead times
- RoHS compliance

Lens Description

| | | |
|---|-------------------|------------|
| Surface Form Deviation (RMSi) ¹ | [μm] | ≤ 0.5 |
| EFL Tolerance | [%] | ≤ 0.1 |
| Surface Quality | [Scratch-Dig] | 60-40 |
| Width Tolerance | [mm] | +0/-0.05 |
| Length Tolerance | [mm] | +/-0.1 |
| Center Thickness Toleranc ² | [mm] | ± 0.05 |
| Clear Aperture | [%] | ≥ 90 |
| AR-Coatings² | | |
| A: $R_{\text{MAX}} < 1.0\%$, $R_{\text{AVG}} \leq 0.4\%$, 400-600nm, AOI=0° | | |
| B: $R_{\text{MAX}} < 1.0\%$, $R_{\text{AVG}} \leq 0.4\%$, 600-1050nm, AOI=0° | | |
| C: $R_{\text{MAX}} < 1.0\%$, $R_{\text{AVG}} \leq 0.4\%$, 1000-1600nm, AOI=0° | | |



| Product Code | Size | EFL | NA | f/d | WD | Material |
|--------------|-----------|------|------|------|------|----------|
| | [mm] | [mm] | | | [mm] | |
| CHL10-08 | 10x10 | 8 | 0.54 | 0.80 | 6.3 | S-LAH64 |
| CHL12-10 | 12.5x12.5 | 10 | 0.55 | 0.80 | 7.2 | S-LAH64 |
| CHL15-12 | 15x15 | 12 | 0.54 | 0.80 | 9.2 | S-LAH64 |
| CHL18-15 | 18x18 | 15 | 0.53 | 0.83 | 11.6 | S-LAH64 |
| CHL20-18 | 20x20 | 18 | 0.49 | 0.90 | 14.3 | S-LAH64 |
| CHL25-20 | 25x25 | 20 | 0.54 | 0.80 | 15.8 | S-LAH64 |
| CHL30-26 | 30x30 | 26 | 0.52 | 0.87 | 21.5 | S-LAH64 |
| CHL45-32 | 45x45 | 32 | 0.61 | 0.71 | 24.7 | S-LAH64 |
| CHL50-40 | 50x50 | 40 | 0.55 | 0.80 | 32.1 | S-LAH64 |

1. RMSi corresponds to ISO 10110-5 (surface form tolerances).

2. For lenses CHL45-32, CHL50-40, please consider a center thickness tolerance of ± 0.1 .

3. Custom coatings available upon request.

