



StockOptics

CATALOG 2025 | North America



Dear asphericon customer

Within the StockOptics product range, you can choose from an extensive portfolio of precision-polished aspheric lenses, acylinders and axicons. Benefit from outstanding asphericon quality at excellent conditions and fast delivery.

Discover, for example, the various quality levels of our aspheres: Precision, Ultra and BeamTuning. These aspheres are optimized for a wide range of applications, including high laser powers.

In addition to further diameters, all fused silica aspheres are now available with V-Coatings (355 nm, 532 nm and 1064 nm). Learn more at page 10.

The new StockOptics catalog contains latest technical information and prices. Shop conveniently online or contact the asphericon sales team for professional support.



Product Range

asphericon's fine collection of aspheres, axicons, acylinders and mounted optics – profit from the technology leader in manufacturing high precision aspheres.

YOUR BENEFITS:

- = Precision polished StockOptics for remarkable performance
- = CNC grinding & polishing for superior surface roughness
- = High quality level for demanding applications
- = Off-the-shelf delivery for short lead times
- = Files for optical design and drawings available (Zemax, CodeV, OSLO, VirtualLab™, Step)





a | Mounted Aspheres / Axicons Page 18



Quick Guide:

WHY TO CHOOSE AN ASPHERIC SOLUTION?

In comparison to spherical lenses our aspheres perform with minimal foci and show outstanding imaging characteristics (see fig. 1).

The quality of all StockOptics is sufficient for high-end applications. Within our BeamTuning line (see p. 13) we also offer diffraction-limited aspheric lenses. They generate an even better spot size (fig. 2).

Finally, both qualities convince with outstanding surface form deviations (fig. 3).

Choose all lenses out of this catalog and order online at asphericon.com.

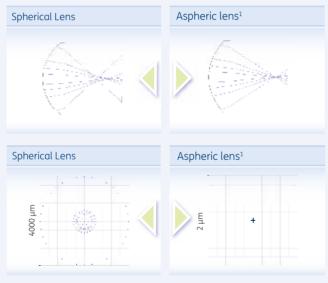
We also offer customized lenses and systems. For your individual solution please contact us!

Contact us:

info@asphericon-inc.com

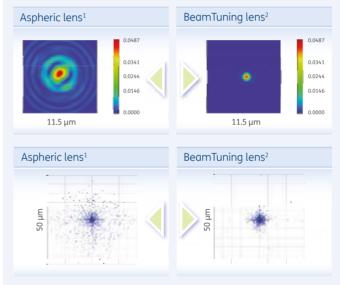
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Optical path / Spot size
Spherical lens vs. Aspheric lens¹
Dia: 25 mm | EFL: 20 mm | NA: 0.54



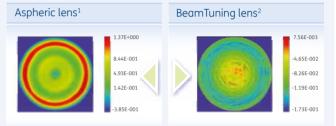
- = Spot sizes from both lenses differ significantly: 4000 μm (Sphere) vs. 2 μm (Asphere)
- = Spherical lenses produce improper foci and spherical aberrations
- = StockOptic lenses stand out with minimal foci to maximize intensity

Point spread function / Spot size
Aspheric lens¹ vs. BeamTuning lens²
Dia: 25 mm | EFL: 20 mm | NA: 0.54



- = Wavefront RMS shows great result for both lenses (aspheric lens = 0.361 waves, BeamTuning lens = 0.065 waves)
- = BeamTuning lens performs with an excellent spot size and diffraction-limited focus (Strehl ratio: 0.85)

Surface form deviation
Aspheric lens¹ vs. BeamTuning lens²
Dia: 25 mm | EFL: 20 mm | NA: 0.54



- = aspherican lens convinces with a RMS, \leq 0.5 μ m
- = Full-surface interferometric measurement shows an outstanding RMS, of up to 0.02 µm for BeamTuning quality
- 1 asphericon AHL25-20 (see p. 06/07), design wavelength: 780 nm
- 2 BeamTuning lens (see p. 13), design wavelength: 355 nm







= a|High-NA

Precision polished aspheres for a superior beam energy distribution. Especially suitable for your demanding laser applications. Also available as mounted lenses.

KEY BENEFITS

- = Outstanding surface form deviation of RMS_i up to \leq 0.1 μ m
- = Decrease of chromatic aberrations by use of low dispersion material
- = Available with 3 standard coatings (customized coatings on request)
- = Laser induced damage threshold: 12 J/cm², 100 Hz, 6 ns, 532 nm For higher laser power applications please request a V-Coating. Contact us for an individual offer.
- = Off-the-shelf delivery
- = RoHS compliance

LENS DESCRIPTION

EFL Tolerance	[%]	≤0.1
Surface Imperfections	[Scratch-Dig]	60-40
Diameter Tolerance	[mm]	+0/-0.05
Center Thickness Tolerance ¹	[mm]	±0.05
Clear Aperture	[%]	≥90

AR-Coatings²

A: R_{MAX} <1.0%, R_{AVG} ≤0.4%, 400-600 nm, AOI=0°
B: R_{MAX} <1.0%, R_{AVG} <0.4%, 600-1050 nm, AOI=0°
C: R _{MAY} <1.0%, R _{AVG} ≤0.4%, 1000-1500 nm, AOI=0°

PRECISION

Surface Form Deviation (RMS _i) ³	[µm]	≤0.5	Wavefront RMS	[nm] ≤390

Product Code	Ø	EFL	NA	f/d	WD	λ_{Design}	Material	Prices	1pc ⁴	Prices	5pc ⁴
	[mm]	[mm]			[mm]	[nm]		uncoated	coated	uncoated	coated
AHL10-08-P ⁵	10	8	0.55	0.80	6.0	780	S-LAH64	\$166	\$195	\$161	\$188
AHL12-10-P	12.5	10	0.55	0.80	7.6	780	S-LAH64	\$194	\$222	\$187	\$215
AHL15-12-P	15	12	0.55	0.80	9.0	780	S-LAH64	\$207	\$236	\$202	\$228
AHL18-15-P	18	15	0.53	0.83	11.5	780	S-LAH64	\$222	\$261	\$215	\$253
AHL20-18-P	20	18	0.49	0.90	14.0	780	S-LAH64	\$236	\$272	\$228	\$264
AHL25-20-P	25	20	0.54	0.80	15.7	780	S-LAH64	\$249	\$286	\$242	\$277
AHL30-26-P	30	26	0.52	0.87	20.6	780	S-LAH64	\$319	\$366	\$309	\$355
AHL45-32-P	45	32	0.61	0.71	24.2	780	S-LAH64	\$417	\$520	\$403	\$504
AHL50-40-P	50	40	0.55	0.80	31.3	780	S-LAH64	\$445	\$569	\$431	\$552

ULTRA

Surface Form Deviation (RMS _i) ³	[µm]	≤0.1	Wavefront RMS	[nm] ≤78

Product Code	Ø	EFL	NA	f/d	WD	$\lambda_{ extstyle Design}$	Material	Prices	1pc ⁴	Prices	5pc ⁴	Prices Mou	inted 1pc4
	[mm]	[mm]			[mm]	[nm]		uncoated	coated	uncoated	coated	uncoated	coated
AHL10-08-U ⁵	10	8	0.55	0.80	6.0	780	S-LAH64	\$333	\$386	\$321	\$375	-	-
AHL12-10-U	12.5	10	0.55	0.80	7.6	780	S-LAH64	\$388	\$442	\$376	\$429	\$494	\$543
AHL15-12-U	15	12	0.55	0.80	9.0	780	S-LAH64	\$416	\$473	\$402	\$458	\$519	\$581
AHL18-15-U	18	15	0.53	0.83	11.5	780	S-LAH64	\$444	\$522	\$430	\$505	\$550	\$628
AHL20-18-U	20	18	0.49	0.90	14.0	780	S-LAH64	\$470	\$543	\$456	\$526	\$577	\$647
AHL25-20-U	25	20	0.54	0.80	15.7	780	S-LAH64	\$500	\$572	\$484	\$554	\$606	\$679
AHL30-26-U	30	26	0.52	0.87	20.6	780	S-LAH64	\$638	\$735	\$618	\$711	-	-
AHL45-32-U	45	32	0.61	0.71	24.2	780	S-LAH64	\$834	\$1.039	\$809	\$1.007	-	-
AHL50-40-U	50	40	0.55	0.80	31.3	780	S-LAH64	\$890	\$1.141	\$862	\$1.107	-	-

1 For lenses AHL45-32, AHL50-40 please consider a center thickness tolerance of ± 0.1 . | 2 Custom coatings available upon request. | 3 RMS; corresponds to ISO 10110-5. | 4 Prices valid per piece. More volumes and discounts of coated and uncoated lenses at www.asphericon.com. | 5 Calculated for 250 μ m cover glass thickness. | General: Technical parameters and prices are subject to change without prior notice.





= a Low-NA

Available in a focal length-diameter-ratio (f/d) of 2.0 and ideally suited for light collection and laser applications. Some diameters are also available with high-precision mountings.

KEY BENEFITS

- = Outstanding surface form deviation up to RMS $_i \le 0.1 \,\mu m$
- = Long focal length (f/d 2.0)
- = Available with 3 standard coatings (customized coatings on request)
- = Laser induced damage threshold: 12 J/cm², 100 Hz, 6 ns, 532 nm For higher laser power applications please request a V-Coating. Contact us for an individual offer.
- = Off-the-shelf delivery
- = RoHS compliance

LENS DESCRIPTION

EFL Tolerance	[%]	≤0.1
Surface Imperfections	[Scratch-Dig]	60-40
Diameter Tolerance	[mm]	+0/-0.05
Center Thickness Tolerance ¹	[mm]	±0.05
Clear Aperture	[%]	≥90

R-Coatings ²
A: R_{MAX} <1.0%, R_{AVG} ≤0.4%, 400-600 nm, AOI=0°
B: R_{MAX} <1.0%, R_{AVG} ≤0.4%, 600-1050 nm, AOI=0°
C: R _{MAX} <1.0%, R _{AVG} ≤0.4%, 1000-1500 nm, AOI=0°

PRECISION

Surface Form Deviation (RMS_j)³ [μ m] \leq 0.5 Wavefront RMS [nm] \leq 255

Product Code	Ø	EFL	NA	f/d	WD	λ_{Design}	Material	Prices	1pc ⁴	Prices	5pc ⁴
	[mm]	[mm]			[mm]	[nm]		uncoated	coated	uncoated	coated
ALL12-25-P	12.5	25	0.23	2.0	22.4	780	N-BK7	\$194	\$222	\$187	\$215
ALL25-50-P	25	50	0.23	2.0	46.0	780	N-BK7	\$249	\$286	\$242	\$277
ALL50-100-P	50	100	0.24	2.0	93.4	780	N-BK7	\$445	\$588	\$431	\$570
ALL75-60-P	75	60	0.62	0.8	36.5	780	N-BK7	\$759	\$980	\$736	\$950
ALL75-150-P	75	150	0.23	2.0	140.1	780	N-BK7	\$759	\$980	\$736	\$950
ALL100-100-P	100	100	0.48	1.0	76.2	780	N-BK7	\$1.088	\$1.485	\$1.054	\$1.439
ALL100-200-P	100	200	0.23	2.0	187.4	780	N-BK7	\$1.088	\$1.485	\$1.054	\$1.439

ULTRA

Surface Form Deviation $(RMS_i)^3$ [μm] ≤ 0.1 Wavefront RMS [nm] ≤ 51

Product Code	Q6	EFL	NA	f/d	WD	λ_{Design}	Material	Prices	1pc ⁴	Prices	5pc ⁴	Prices Mou	nted 1pc ⁵
	[mm]	[mm]			[mm]	[nm]		uncoated	coated	uncoated	coated	uncoated	coated
ALL12-25-U	12.5	25	0.23	2.0	22.4	780	N-BK7	\$388	\$442	\$376	\$429	\$494	\$543
ALL25-50-U	25	50	0.23	2.0	46.0	780	N-BK7	\$500	\$572	\$484	\$554	\$606	\$679
ALL50-100-U	50	100	0.24	2.0	93.4	780	N-BK7	\$890	\$1.175	\$862	\$1.139	-	-

1 For lenses ALL50-100, ALL100-200 please consider a center thickness tolerance of ±0.1. For lenses ALL75-60, ALL100-100 please consider a center thickness tolerance of ±0.15. | 2 Custom coatings available upon request. | 3 For lenses ALL75-60, ALL75-150, ALL100-100, ALL100-200 please consider a maximum value of 0.75. RMS; corresponding to ISO 10110-5 (surface form tolerances). | 4 Prices valid per piece. More volume discounts at www.asphericon.com. | 5 Prices of mounted lenses valid per piece. More volumes and discounts of coated and uncoated mounted lenses at www.asphericon.com. | 6 Other diameters on request. | General: Technical parameters and prices are subject to change without prior notice.





= a | FusedSilica

Fused silica lenses are optimized for several high-power laser applications, as prototypes in test devices or as standard components for beam focusing or collimation. Available in three different quality levels, with superior roughness values, as mounted optics and with 7 different coatings.

KEY BENEFITS

- = Outstanding surface form deviation (RMS, up to \leq 0.02 μ m)
- = High-end finished optics with lowest roughness (Rq ≤ 0.5 nm) for reduced scattering
- = Available with 7 coatings (customized coatings on request)
- = Laser induced damage threshold: 12 J/cm², 100 Hz, 6 ns, 532 nm
- = Off-the-shelf delivery

LENS DESCRIPTION

EFL Tolerance	[%]	≤0.1
Surface Imperfections	[Scratch-Dig]	20-20
Diameter Tolerance	[mm]	+0/-0.05
Center Thickness Tolerance ¹	[mm]	±0.05
Clear Aperture	[%]	≥90

AR-Coatings	V-Coatings
A: R_{MAX} <1.0%, R_{AVG} <0.4%, 400-600 nm, AOI=0°	K: R < 0.25%, 355 nm, AOI=0°
B: R _{MAX} <1.0%, R _{AVG} ≤0.4%, 600-1050 nm, AOI=0°	L: R < 0.25%, 532 nm, AOI=0°
C: R _{MAX} <1.0%, R _{AVG} ≤0.4%, 1000-1500 nm, AOI=0°	M: R < 0.25%, 1064 nm, AOI=0°
X: R _{MAX} <1.0%, R _{AVG} ≤0.4%, 240-380 nm, AOI=0°	
Y: R _{MAX} <1.0%, R _{AVG} ≤0.4%, 320-450 nm, AOI=0°	



Aspheres with optimized design wavelengths, perfectly matching your UV application!

PRECISION

Surface Form Deviation (RMS _i) ²	[µm]	≤0.5
Wavefront RMS	[nm]	≤235

Product Code	Ø	EFL	NA	f/d	WD	$\lambda_{ extstyle $	Prices	1pc³
_	[mm]	[mm]			[mm]	[nm]	uncoated	coated
AFL12-10-P	12.5	10	0.58	0.833	5.7	355	\$398	\$447
AFL12-15-P	12.5	15	0.39	1.2	12.3	285	\$365	\$417
AFL12-20-P	12.5	20	0.29	1.6	17.3	285	\$365	\$417
AFL25-17-P	25	17	0.64	0.7	10.0	355	\$594	\$666
AFL25-20-P	25	20	0.56	0.8	12.6	355	\$569	\$654
AFL25-25-P	25	25	0.48	1.0	17.0	285	\$544	\$629
AFL25-30-P	25	30	0.39	1.2	23.3	285	\$452	\$525
AFL25-40-P	25	40	0.29	1.6	34.6	285	\$452	\$525
AFL25-50-P	25	50	0.23	2.0	45.1	355	\$452	\$525
AFL25-75-P	25	75	0.15	3.0	70.9	355	\$452	\$525
AFL25-100-P	25	100	0.11	4.0	96.3	355	\$452	\$525
AFL50-40-P	50	40	0.56	0.8	25.2	355	\$880	\$978
AFL50-50-P	50	50	0.48	1.0	37.0	355	\$855	\$955
AFL50-60-P	50	60	0.39	1.2	48.3	285	\$855	\$955
AFL50-80-P	50	80	0.29	1.6	70.6	285	\$855	\$955
AFL50-100-P	50	100	0.23	2.0	91.5	355	\$794	\$918

1 For lenses AFL50-60, AFL50-80, please consider a center thickness tolerance of ±0.1. | 2 RMS, corresponds to ISO 10110-5 (surface form tolerances). | 3 Prices valid per piece. More volume discounts at www.asphericon.com. | General: Technical parameters and prices are subject to change without prior notice.



ULTRA

Product Code	Ø	EFL	NA	f/d	WD	$\lambda_{ extstyle{Design}}$	Prices 1pc ² Pr		Prices Mounted 1pc ³	
	[mm]	[mm]			[mm]	[nm]	uncoated	coated	uncoated	coated
AFL12-10-U	12.5	10	0.58	0.833	5.7	355	\$422	\$470	\$523	\$571
AFL12-15-U	12.5	15	0.39	1.2	12.3	285	\$416	\$465	\$514	\$562
AFL12-20-U	12.5	20	0.29	1.6	17.3	285	\$416	\$465	\$514	\$562
AFL25-17-U	25	17	0.64	0.7	10.0	355	\$636	\$709	\$737	\$847
AFL25-20-U	25	20	0.56	0.8	12.6	355	\$599	\$709	\$706	\$816
AFL25-25-U	25	25	0.48	1.0	17.0	285	\$575	\$684	\$684	\$795
AFL25-30-U	25	30	0.39	1.2	23.3	285	\$525	\$599	\$636	\$709
AFL25-40-U	25	40	0.29	1.6	34.6	285	\$525	\$599	\$636	\$709
AFL25-50-U	25	50	0.23	2.0	45.1	355	\$525	\$599	\$636	\$709
AFL25-75-U	25	75	0.15	3.0	70.9	355	\$525	\$599	\$618	\$709
AFL25-100-U	25	100	0.11	4.0	96.3	355	\$525	\$599	\$636	\$709
AFL50-40-U	50	40	0.56	0.8	25.2	355	\$930	\$1,027	-	-
AFL50-50-U	50	50	0.48	1.0	37.0	355	\$905	\$1,002	-	-
AFL50-60-U	50	60	0.39	1.2	48.3	285	\$905	\$1,002	-	-
AFL50-80-U	50	80	0.29	1.6	70.6	285	\$905	\$1,002	-	-
AFL50-100-U	50	100	0.23	2.0	91.5	355	\$855	\$1,004	-	-

For lenses AFL50-60, AFL50-80, please consider a center thickness tolerance of ±0.1. | 1 RMS, corresponds to ISO 10110-5. | 2 Prices valid per piece. More volume discounts at www.asphericon.com. | 3 Prices valid per piece. More volumes and discounts of coated and uncoated mounted lenses at www.asphericon.com. | General: Technical parameters and prices are subject to change without prior notice.

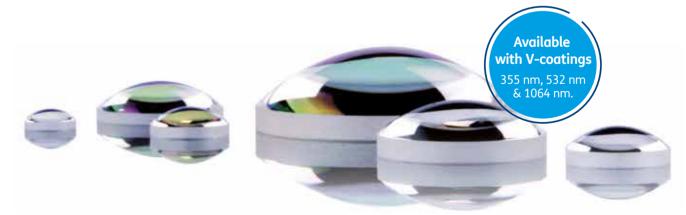


BEAMTUNING

Surface Form Deviation (RMS _i) ¹	[µm]	≤0.02
Wavefront RMS	[nm]	≤10
Surface Roughness (Rq)	[nm]	≤0.5

Product Code	Ø	EFL	NA	f/d	WD	$\lambda_{ extstyle{Design}}$	Prices 1pc ²		Prices Mounted 1po	
	[mm]	[mm]			[mm]	[nm]	uncoated	coated	uncoated	coated
AFL25-50-D	25	50	0.23	2.0	45.1	355	\$846	\$945	\$950	\$1,058
AFL25-75-D	25	75	0.15	3.0	70.9	355	\$846	\$945	\$950	\$1,058
AFL25-100-D	25	100	0.11	4.0	96.3	355	\$846	\$945	\$950	\$1,058

1 RMS_i corresponds to ISO 10110-5. | 2 Prices valid per piece. More volume discounts at www.asphericon.com. | 3 Prices valid per piece. More volumes and discounts of mounted lenses at www.asphericon.com. | General: Technical parameters and prices are subject to change without prior notice.





Mounted & unmounted axicons

= a Axicons

The premium selection of a Axicons convince with superior surface roughness for high performance applications. Also available as mounted axicons.

KEY BENEFITS

- = Outstanding surface form deviation of RMS_i \leq 0.07 μ m
- = Suitable for high-power laser applications and available off-the-shelf
- = Available with 4 standard coatings (customized coatings on request)
- = Laser induced damage threshold: 12 J/cm², 100 Hz, 6 ns, 532 nm For higher laser power applications please request a V-Coating. Contact us for an individual offer.
- = RoHS compliance

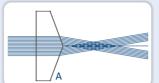
LENS DESCRIPTION

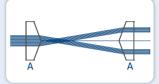
Surface Form Deviation (RMS _i) ¹	[µm]	< 0.07
Surface Imperfections	[Scratch-Dig]	40-20
Diameter Tolerance	[mm]	+0/-0.1
Center Thickness Tolerance	[mm]	±0.1/-0
Clear Aperture	[%]	>90

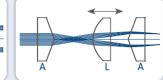
R-Coatings ²
A: R _{MAX} <1.0%, 532 nm, AOI=0°
B: R _{MAX} <1.0%, R _{AVG} ≤0.4%, 632-780 nm, AOI=0°
C: R _{MAX} <1.0%, 1064 nm, AOI=0°
X: R _{MAX} <1.0%, 355 nm, AOI=0°

Utilizing Axicons

Axicons are conical lenses that are widely used in different scientific research and laser applications.







Fields of Application

- Laser material processing
- = Measurement & Alignment
- = Research & Science
- = Medical engineering

. Generation	of a Bessel	beam.	2. Gen
A - Axicon I - I	ens		

neration of a rina beam.

3. Generation of variable ring foci.

Product Code	Ø	Angle	Edge Thickness	λ_{Design}	Material	Prices	1pc³	Prices	5pc ³	Prices Mou	nted 1pc4
	[mm]	[degree]	[mm]	[nm]		uncoated	coated	uncoated	coated	uncoated	coated
XFL12-050-U ⁷	12.7	5.0	5.04	780	Fused Silica	\$336	\$391	\$318	\$371	-	-
XFL25-005-U ⁵	25.4	0.5	5.0	780	Fused Silica	\$569	\$684	\$539	\$648	\$679	\$802
XFL25-010-U ⁵	25.4	1.0	5.0	780	Fused Silica	\$569	\$684	\$539	\$648	\$679	\$802
XFL25-020-U ⁵	25.4	2.0	5.0	780	Fused Silica	\$569	\$684	\$539	\$648	\$679	\$802
XFL25-050-U ⁵	25.4	5.0	5.0	780	Fused Silica	\$569	\$684	\$539	\$648	\$679	\$802
XFL25-100-U ⁵	25.4	10.0	5.0	780	Fused Silica	\$569	\$684	\$539	\$648	\$679	\$802
XFL25-200-U ⁵	25.4	20.0	5.0	780	Fused Silica	\$569	\$684	\$539	\$648	\$679	\$802
XFL50-005-U ⁶	50.8	0.5	8.0	780	Fused Silica	\$923	\$1.076	\$875	\$1.020	-	-
XFL50-050-U ⁶	50.8	5.0	8.0	780	Fused Silica	\$923	\$1.076	\$875	\$1.020	-	-
XFL50-100-U ⁶	50.8	10.0	8.0	780	Fused Silica	\$923	\$1.076	\$875	\$1.020	-	-
XFL50-200-U ⁶	50.8	20.0	8.0	780	Fused Silica	\$923	\$1.076	\$875	\$1.020	-	-

¹ RMS, corresponds to ISO 10110-5 (surface form tolerances). | 2 Custom coatings available upon request. | 3 Prices valid per piece. More volume discounts at www.asphericon.com. | 4 Prices of mounted lenses valid per piece. More volumes and discounts of coated and uncoated mounted lenses at www.asphericon.com. | 5 Conical tip, Clear Aperture 2.3-23 mm, smaller conical tips on request. | 6 Conical tip, Clear Aperture 4.6-46 mm, smaller conical tips on request. | General: Technical parameters and prices are subject to change without prior notice.





= a Acylinders

Benefit from our attractive selection of acylinders with a surface form deviation smaller than 0.5 μ m. a |Acylinders are made from high-index-glass and can be especially used for laser applications.

KEY BENEFITS

- = Outstanding surface form deviation of RMS $_i \le 0.5 \mu m$
- = Ideal line-focus without spherical aberration and off-the-shelf delivery for short lead times
- = Available with 3 standard coatings (customized coatings on request)
- = Laser induced damage threshold: 12 J/cm², 100 Hz, 6 ns, 532 nm For higher laser power applications please request a V-Coating. Contact us for an individual offer.
- = RoHS compliance

LENS DESCRIPTION

Surface Form Deviation (RMS _i) ¹	[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 ²	[mm]	±0.05
Clear Aperture	[%]	≥90

-Coatings	3				
	$\Delta \cdot P$	<1	0%	R	< 0.4

A: R _{MAX} <1.0%, R _{AVG} ≤0.4%, 400-600 nm, AOI=0°
B: R _{MAX} <1.0%, R _{AVG} ≤0.4%, 600-1050 nm, AOI=0°
C: R _{MAX} <1.0%, R _{AVG} ≤0.4%, 1000-1500 nm, AOI=0°



Product Code	Size	EFL	NA	f/d	WD	$\lambda_{ extstyle $	Material	Prices 1pc ⁴		Prices 5pc ⁴	
	[mm]	[mm]			[mm]	[nm]		uncoated	coated	uncoated	coated
CHL10-08-P	10x10	8	0.54	0.8	6.3	780	S-LAH64	\$345	\$402	\$335	\$390
CHL12-10-P	12.5x12.5	10	0.55	0.8	7.2	780	S-LAH64	\$403	\$459	\$391	\$446
CHL15-12-P	15x15	12	0.54	0.8	9.2	780	S-LAH64	\$431	\$491	\$418	\$476
CHL18-15-P	18x18	15	0.53	0.83	11.6	780	S-LAH64	\$461	\$542	\$447	\$525
CHL20-18-P	20x20	18	0.49	0.9	14.3	780	S-LAH64	\$489	\$570	\$474	\$552
CHL25-20-P	25x25	20	0.54	0.8	15.8	780	S-LAH64	\$519	\$600	\$503	\$581
CHL30-26-P	30x30	26	0.52	0.87	21.5	780	S-LAH64	\$663	\$780	\$643	\$755
CHL45-32-P	45x45	32	0.61	0.71	24.7	780	S-LAH64	\$867	\$1.129	\$840	\$1.093
CHL50-40-P	50x50	40	0.55	0.8	32.1	780	S-LAH64	\$925	\$1.186	\$896	\$1.150

¹ RMS; 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. | 4 Prices valid per piece. More volume discounts at www.asphericon.com. | General: Technical parameters and prices are subject to change without prior notice.





= a | MountedAspheres/Axicons

Benefit from a convenient solution for your laser application with the attractive selection of prealigned aspheres and axicons from our StockOptics product line in high-precision mountings. All lenses with diameters from 12.5 mm to 25.4 mm are ideally aligned with < 10 μ m decentration of the optical and mechanical axis. By using one of the available a Adapters – SM1, C-Mount, 1.2 inch – the lenses can easily be applied in all standard optical systems.

KEY BENEFITS

- = Especially designed mounts engraved with lens specifications
- = High-precision mounted through using auto-collimation technique
- = Perfect alignment (< 10 µm decentration)
- = Tilt-reduced for optimal focusing
- = Modular design for high compatibility with all asphericon products and common optical systems
- **=** Comfortable and timesaving handling
- = Easy and safe storage thanks to protective design and safety caps
- = Off-the-shelf delivery

Outer diameter: 30 mm



Mounted axicon

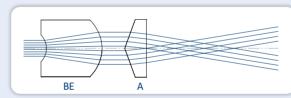
Contact us for more information: info@asphericon-inc.com

Fields of Application

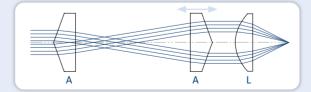
With especially designed mounts for aspheres, axicons and acylinders an optimized use of the lens is guaranteed. Thanks to harmonized metric fine thread all mounted optical components presented by asphericon can be easily combined.



Generation of a collimated ring-shaped beam by altering the distance between two axicons.



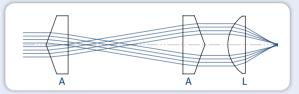
Optimizing the illumination of the axicon to adjust the length of the Bessel Beam.



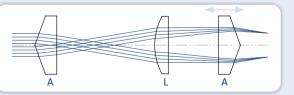
Changing the focus width of an asphere by altering the distance between axicons - Focusing under the diffraction limit.



Generation of a ring focus - Distance changing through focal length of the lens, diameter changing through axicon angle.



Changing the focal length of a sphere by altering the distance between the axicons.



Generation of adjustable ring foci by shifting the last axicon to vary the ring diameters.

A - Axicon, L - Lens, BE - BeamExpander



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