

Aspheres

Customised, efficient and high quality

Compared to spherical lenses, aspheres have significantly better imaging properties. This is due to non-spherical shape. The resulting essential advantage is the ability to correct spherical aberrations.

Precision-molded aspheres are our speciality. We manufacture customised and standard aspheres with a diameter of up to 40 mm. Thanks to our innovative molding processes, we can also produce biconvex or meniscus lenses. In addition to the production of collimators, we also have experience in the production of special shapes of aspheres, such as segmented lenses or correction lenses. Thanks to our innovative processes, we can also produce biconvex or meniscus lenses.

Technical specifications

	Diameter ØD	Center thickness	Edge thickness	Clear aperture	Numerical aperture NA	Focal length EFL	Back focal length BFL	Axial wave front quality RMS	λ
	in mm	in mm	in mm	in mm	in mm	in mm	in mm	in waves	in nm
AC002	2.54	0.8	0.5	1.6	0.4	2.0	1.5	0.04	1,310/ 1,550
AC024	3.00	1.84	0.96	2.70	0.47	2.86	1.71	0.05	1,507
AC040	6.50	2.36	1.62	5.30	0.30	8.87	7.41	0.05	635
AC048	1.90	0.8	0.5	1.6	0.4	2.0	1.5	0.04	1,520
AC055	7.20	2.20	1.46	6.00	0.27	11.00	9.54	0.10	635
AC055a	6.00	2.20	1.51	5.50	0.25	11.00	9.54	0.10	635
AC057	6.37	4.00	3.28	5.10	0.32	8.00	5.51	0.05	780
AC059	10.50	3.00	1.76	9.10	0.30	15.00	13.14	0.10	780
AC067	4.50	2.15	1.83	3.60	0.19	9.40	8.07	0.05	715
AC090	5.00	2.56	2.05	3.80	0.28	6.50	5.00	< 0.05	650
AC130	15.00	5.00	-	13.00	0.43	15.20	12.07	0.1	976
AC144	8.00	2.663	-	7.200	-	11.32	9.75	0.08	635

Molded aspherical lenses and optical components in glass for telecommunication and laser collimating. Customized solutions, stock items, coatings as required.

Other sizes and tolerances available per request.