

CUSTOM ASPHERES

Looking for a custom solution? asphericon manufactures aspheric optics with diameters between 1 mm to 420 mm and roughness values of up to 0.5 Rq. Discover our customized aspheres with the following specifications.

Specifications	Standard-Quality	Precision-Quality	High-End-Finishing	Diamond-Turning
Diameter	8 – 300 mm	4 – 250 mm	6 – 300 mm	1 – 420 mm
Diameter Tolerance	± 0.10 mm	± 0.01 mm	± 0.01 mm	
Center Thickness	2 – 60 mm	2 – 60 mm	<60 mm	from 0.5 mm
Center Thickness Tolerance	± 0.10 mm	± 0.05 mm	± 0.05 mm	
RMS Irregularities (RMS _i)	0.75 – 0.3 µm	0.09 µm	< 0.015 µm	0.02 µm
Surface Roughness	3 nm	1.5 nm	0.5 nm	1 nm
Surface Imperfections (Scratch/Dig)	60 - 40	40 - 20	10 - 5 for Ø < 2"; 20 - 10 for Ø > 2"	
Full-surface Interferometric Measuremen	Optional	Optional	Guaranteed	Guaranteed
Coating	Customer-specific			
Materials	Customer-specific (almost every type of glass, silica, germanium, silicon, IR lenses, zerodur)			
Mounting	Customer-specific			
RoHS & REACH Conformity	Certified			

asphericon GmbH
Stockholmer Str. 9 | 07747 Jena
Germany

+49 (0) 3641 - 3100 560
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asphericon, Inc.
5500 Bee Ridge Road, Suite 104
Sarasota, FL 34233 | USA

+1 - 941 - 564 0890

asphericon, s.r.o.
Miliřská 449 | Jeřmanice 463 12
Czech Republic

+420 488 100 300

sales@asphericon.com

www.asphericon.com