

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	
Irregularity (PV)	10 – 4 fr (2.7 – 1.1 µm)	1 fr (0.3 µm)	0.3 fr (0.08 µm)	
RMS Irregularities (RMS _i)	0.75 – 0.3 µm	0.09 µm	< 0.015 µm	0.02 µm
Surface Roughness Rq	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			

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