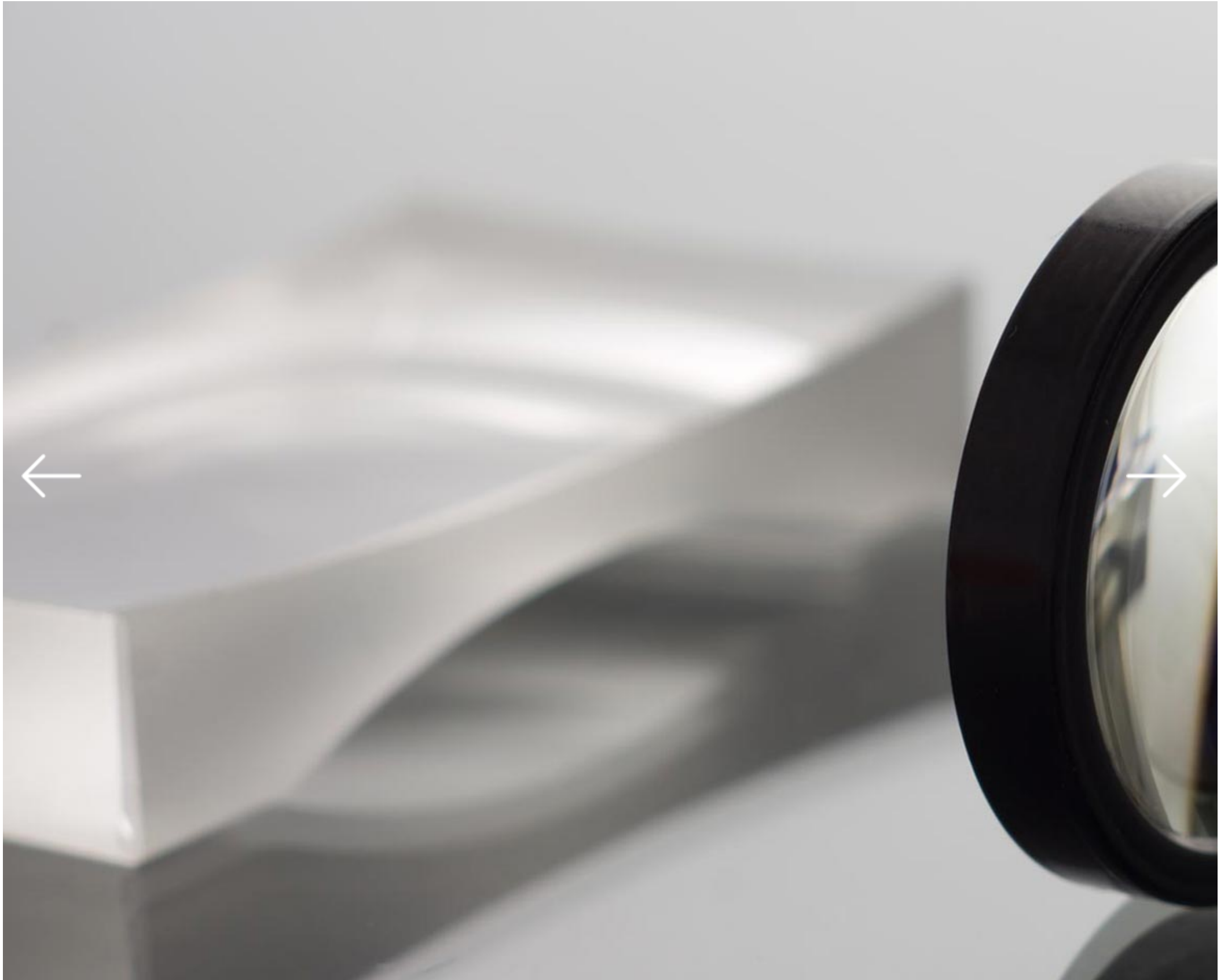


SPHERICAL LENSES

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SPHERICAL LENSES

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Various custom configurations are possible including cementing of doublets and triplets, steps, truncations of single lenses and achromats, black varnishing and more.

Our lenses find applications in high-end equipment for various industries such as cinema, machine vision applications, aerospace, laser systems, medical devices and more.

PRODUCT HIGHLIGHTS

Diameter range: 10 to 130 mm

All types of optical glass and fused silica

Experience with challenging materials (soft and chemically unstable glasses)

Steps and truncations on single lenses and achromats

Final and in-process control using Zygo interferometers

Advanced edge varnishing

Variety of single and multi-layer AR coatings

MANUFACTURING TOLERANCES

Specification	Standard grade	Precision grade
Diameter range	10 to 130 mm	10 to 130 mm
Diameter tolerance	-0.05 mm	-0.01 mm
Center thickness	2 to 50 mm	2 to 50 mm
CT tolerance	±0.05	±0.01
Clear aperture	90%	95%
Power (Sagita deviation)	5 fringes/1.25 μm	1 fringe/0.25 μm

Irregularity	1 fringe/0.25 μm	0.4 fringes/0.1 μm
Digs (ISO 10110)	2 x 0.40	2 x 0.016
Scratchess (ISO 10110)	L2 x 0.10	L2 x 0.008
MIL – Scratch / Dig	40 – 20	20 – 10
Run-out (decentration)	≤ 3 arcminutes	≤ 45 arcseconds

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