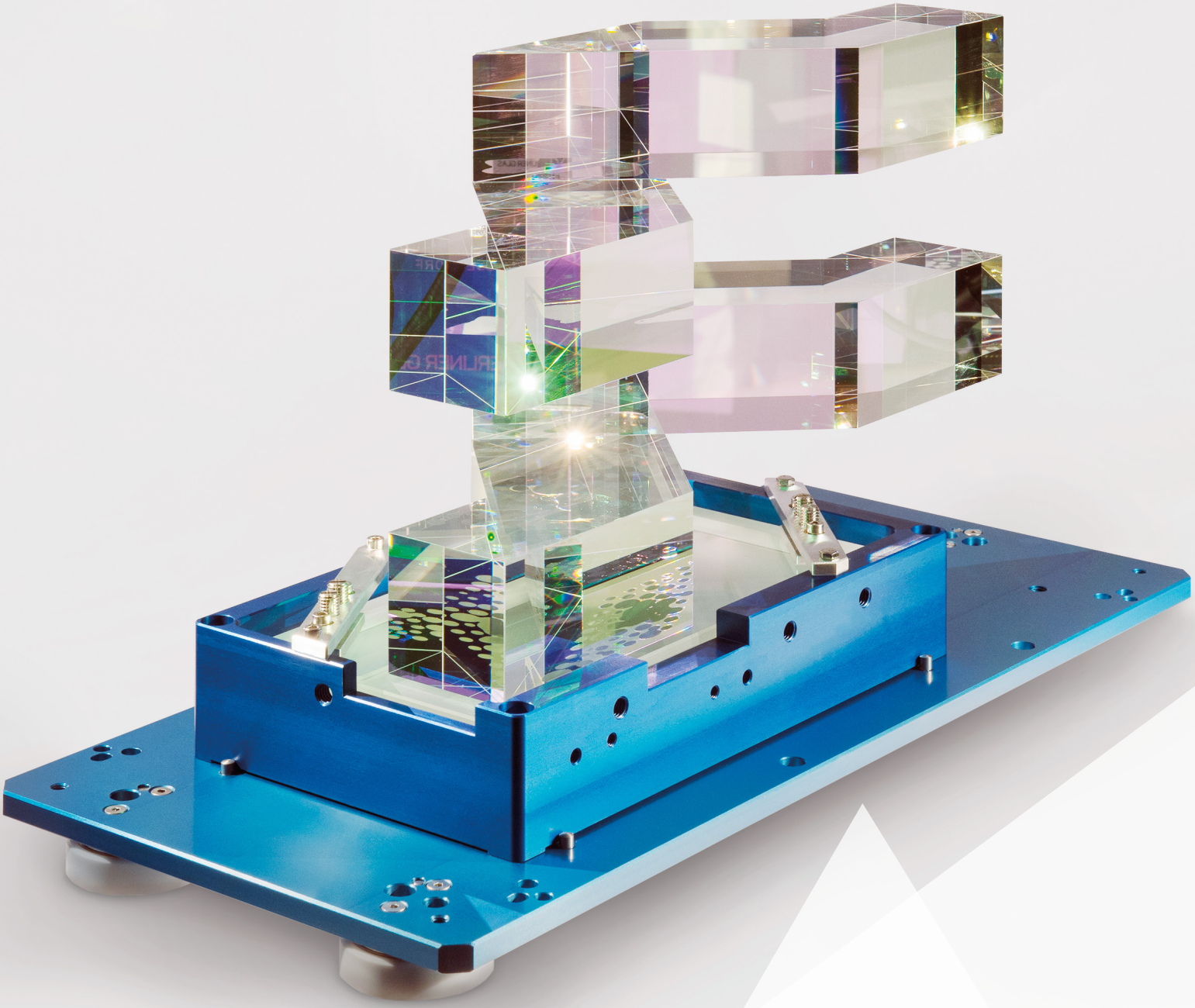
COATING.
WIDE RANGE OF SPECIFIC SOLUTIONS.



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COATING.

The coatings listed show a part of our coating capabilities. We also develop customized solutions and advise you. Environmental- and stress tests of the coatings for the qualification are carried out in-house.

SUBSTRATES

Typical substrates are:
- Wide variety of optical glasses
- Flat glass, lenses and prisms
- Sapphire, quartz and quartz glass as well as glass ceramic and ceramic
- Substrate size up to 400 x 800 mm, Ø 450 mm
- Contract coating on customer substrates on request

SPECIFICATIONS

General
- Wavelength ranges for:
  - Metallic mirrors 120 nm–12 µm
  - Dielectric mirrors 190 nm–3 µm
  - Filters, beam splitters, black chrome 250 nm–3 µm
  - Antireflection coatings 190 nm–5 µm
  - Conductive layers 400 nm–1.6 µm
- All polarization types are specifiable (p, s and average value)

Mirrors
- Metallic and dielectric mirrors
- Narrowband and broadband mirrors
- Front and back surface mirrors

Antireflection coatings
- Narrow, multi- and wide-band spectral ranges
- Residual reflection ≤ 0.05 %

Filters
- Edge filters: Long- (LWP) and short pass (SWP)
- Edge position tolerance from 0.5 % of the nominal wavelength
- Narrowband filters (T-band) and notch filters (R-band)
  - Center position tolerance from 0.2 % of the nominal wavelength
- Laser protection filters
- Single and multi-band filters with freely definable widths and positions

Beam splitters
- Available on a plano-parallel plate or prism cube:
  - Cemented
  - Optically contacted
  - With defined airspace
- Polarizing beam splitters (PBS)
- Non-polarizing beam splitters (NPBS)
- Neutral beam splitters
- Narrow, wide or multiple spectral regions with freely definable splitting ratios

Absorbing layers
- Chrome-free absorber layers available
- Narrow- and broadband
- Efficient from air and/or glass sides
- Structurable (etch and lift-off processes)

Layers for non-optical applications
- Wear protection layers for glass, glass ceramic and ceramic
  - Nitridic layers, e. g. CrN
- Barrier layers, e. g. etch stop

Surface imperfections
- Assessment according to ISO 10110
- Specifications depending on the layer system e. g.:
  - AR: 5/C3 x 0.025 over Ø 25 mm
  - Filters: 5/C3 x 0.040 over Ø 25 mm

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