

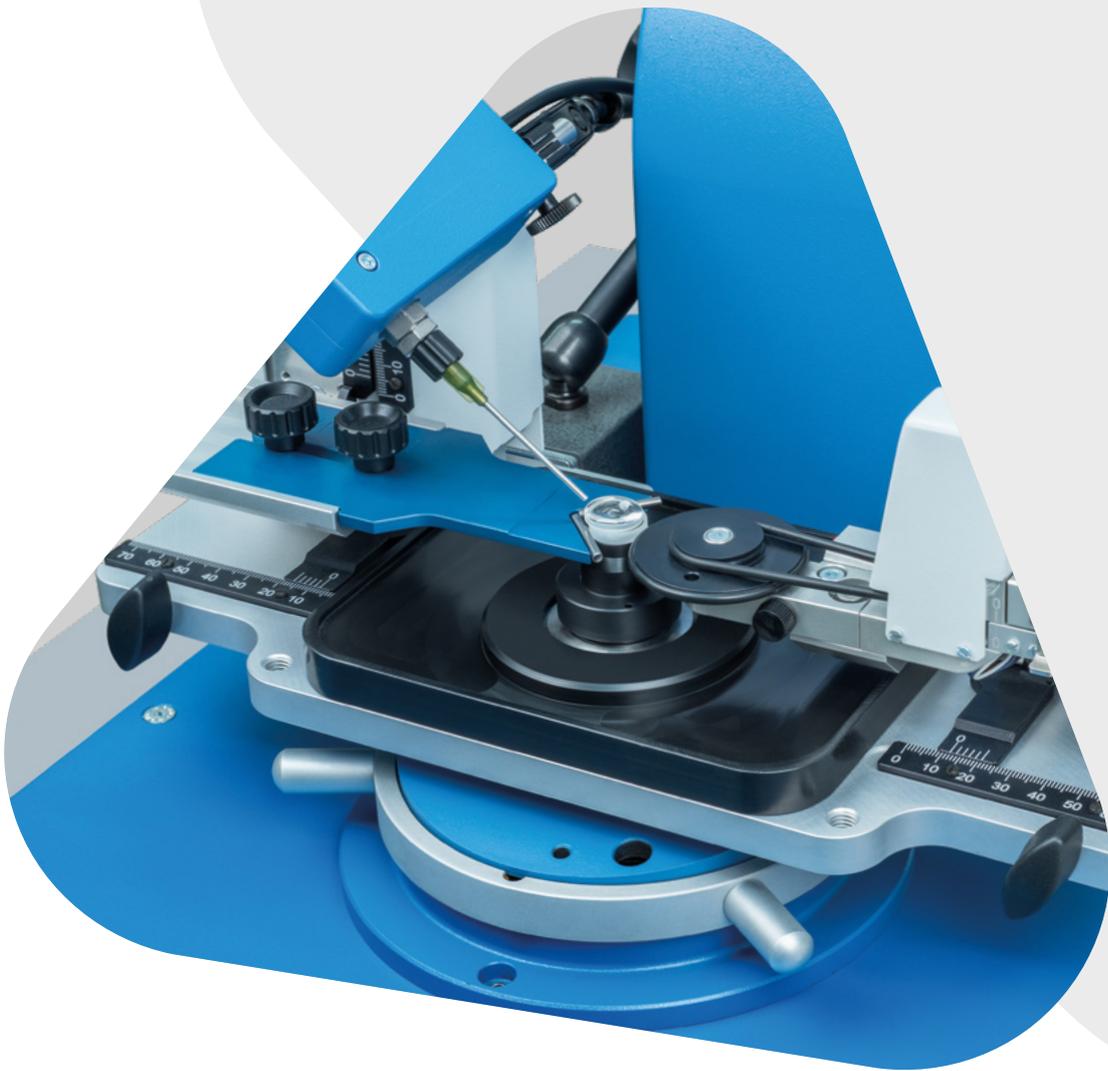


# TRIOPTICS

See the Difference.

## OptiCentric® LensAlign 2D Air

Automated and Efficient Alignment of Doublets



### Automatic Lens Alignment Using Air Manipulator for Cementing of Lenses

During the production of cemented lenses, the lenses are traditionally aligned by hand or with a manually-operated air manipulator. However, this conventional alignment process is reaching its limits in the wake of increasing and more stringent quality, efficiency and certification requirements. With the new LensAlign 2D Air module, TRIOPTICS offers a cost-efficient solution for OptiCentric® systems and supplements automated lens alignment processes using TRIOPTICS LensAlign modules at an entry-level.

The LensAlign 2D Air enhances various OptiCentric® systems by adding an air manipulator and offers the option of automatically aligning cemented lenses to the mechanical axis in reflection or in transmission. In the recommended combination with OptiCentric®, the lens rotation unit and the new OptiCentric® 9 software, the decentration of the upper center of curvature in reflection or the run-out of the focus in transmission relative to the mechanical axis of the lower lens are determined.



Lens alignment with the LensAlign 2D Air on a lens rotation device

During continuous rotation, the sample is moved by software-controlled air pulses until the target position is reached. After the cement is cured by the UV lamp in an automated process, the final production result is quantified and documented. As the process enabled by LensAlign 2D Air does not require operator interaction, a persistent sample quality and an improved process safety can be guaranteed.

### Key Features

- Automated process ensures consistent alignment quality, independent of the operator
- The strength of the air pulses can be adjusted according to the lens type. Contactless alignment process protects the material and preserves the lens quality
- Direct assessment of the production result by measuring the remaining centering error
- Cost-efficient entry-level solution

### Technical Data

	OptiCentric® with LensAlign 2D Air
<b>Measurement accuracy</b>	< 0.1 µm
<b>Alignment accuracy</b>	Up to 1 µm*
<b>Cycle time (measurement and alignment, not including curing time)</b>	< 30 seconds
<b>Sample size</b>	Up to 50 mm**

\* Depending on the lens geometry

\*\* Additional sizes upon request