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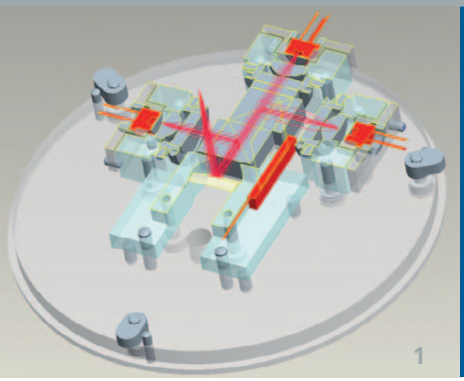
FRAUNHOFER INSTITUTE FOR APPLIED OPTICS AND PRECISION ENGINEERING IOF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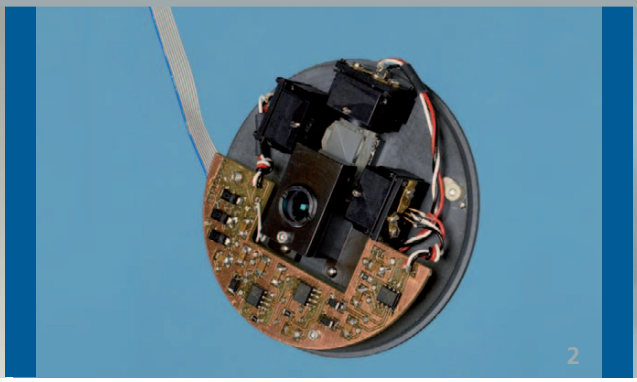
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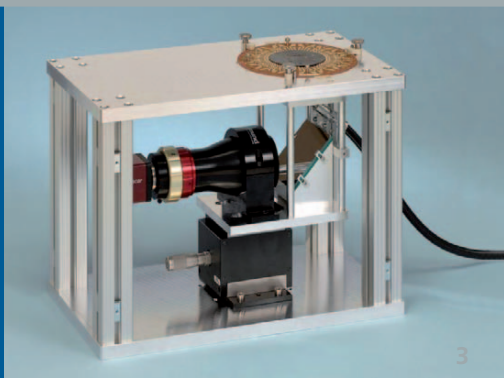
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1 *Optical design.*
2 *Prototype realization.*
3 *System test.*

OPTICAL SYSTEM DEVELOPMENT FROM THE IDEA TO PROTOTYPE

The IOF offers a whole package of optical systems development. We escort our clients all the way from the idea to the prototype and even to system integration.
The IOF coordinates and warrants, that all tasks are performed by appropriate specialists.

System conception	- Optimized solutions - Economic boundary conditions
Optical design	- Sequential and non-sequential raytracing - Diffractive und refractive optical elements
Functional assessment	- Functional simulation, component suitability - Analysis of scatter and stray light
Tolerance calculation	- Adjustment tolerances - Assembly tolerances
Mechanical simulation	- Thermal analyses - Tension and gravitation analyses
Mechanical construction	- Functional modules - Adjustment strategy, -tools, -machines
Prototype assembly, production and test	- Construction, function tests - Determination of system parameters
System integration	- Electronic, drive, integration into surrounding - Transfer to production

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