

Fraunhofer-Institute for Production Technology IPT

EPIC Meeting on Polymer Opics

06th of July, 2020

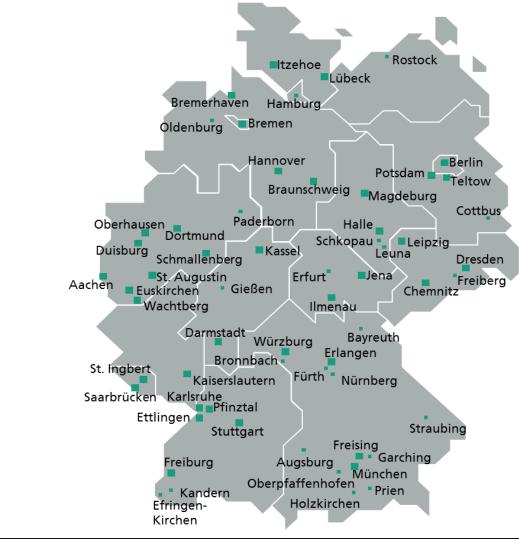
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Fraunhofer Gesellschaft Institutes und sites



Key Figures

- 74 institutes
- 28 000 employees
- > 2.8 bn € annual fund for research
- → Largest organization for applied research in Europe

Fraunhofer Society

- Founded in 1949
- Legal form: nonprofit association
- Headquarter in Munich, Germany

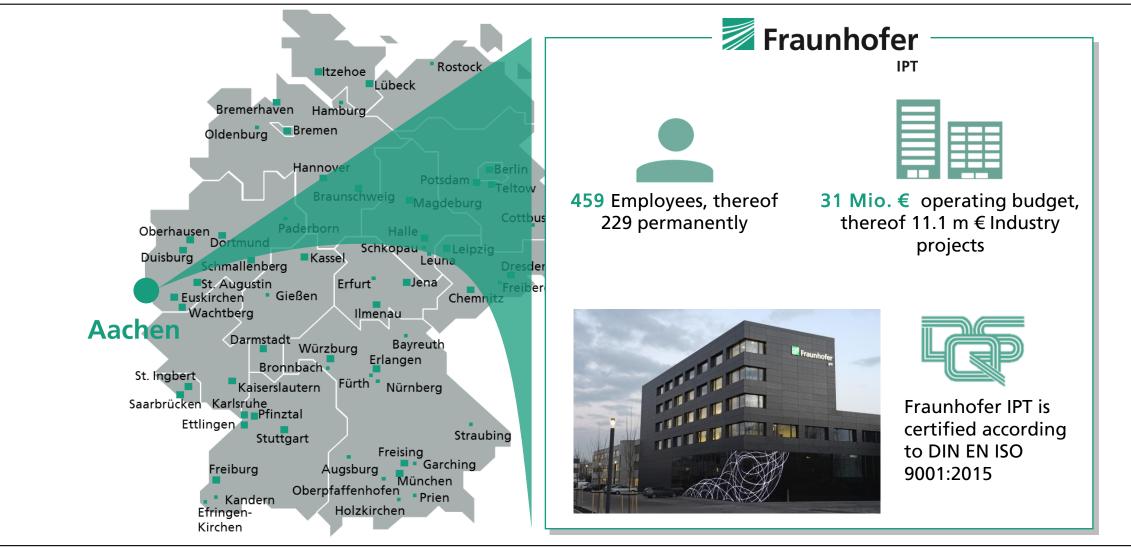
Goal

- Contract research for economy and society
- Transferring fundamental research to industrial application





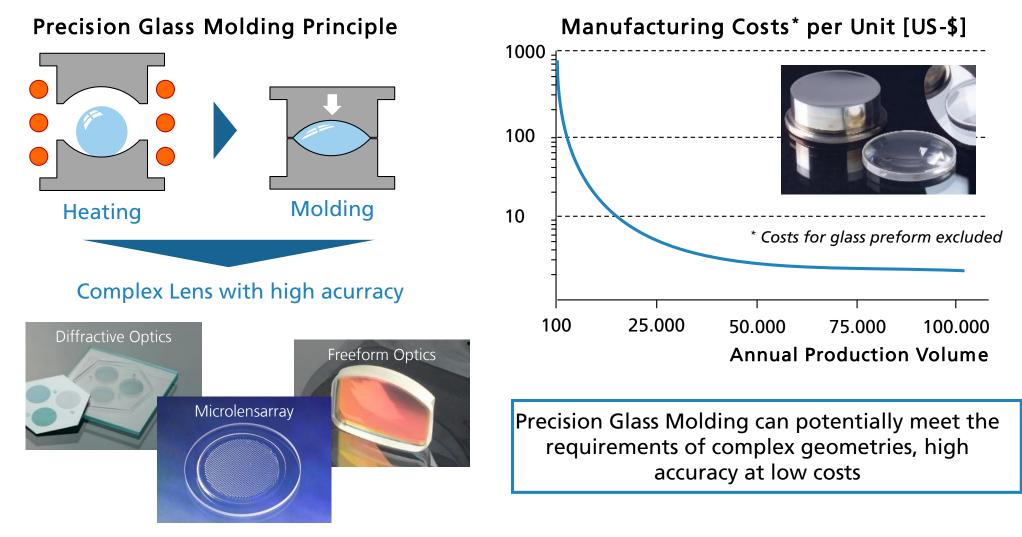
Fraunhofer Institute for Production Technology IPT **Overview**







Introduction & Motivation High Potential of Replicative Optics Manufacturing







Precision Glass Molding Product Spectrum & Scope of Application

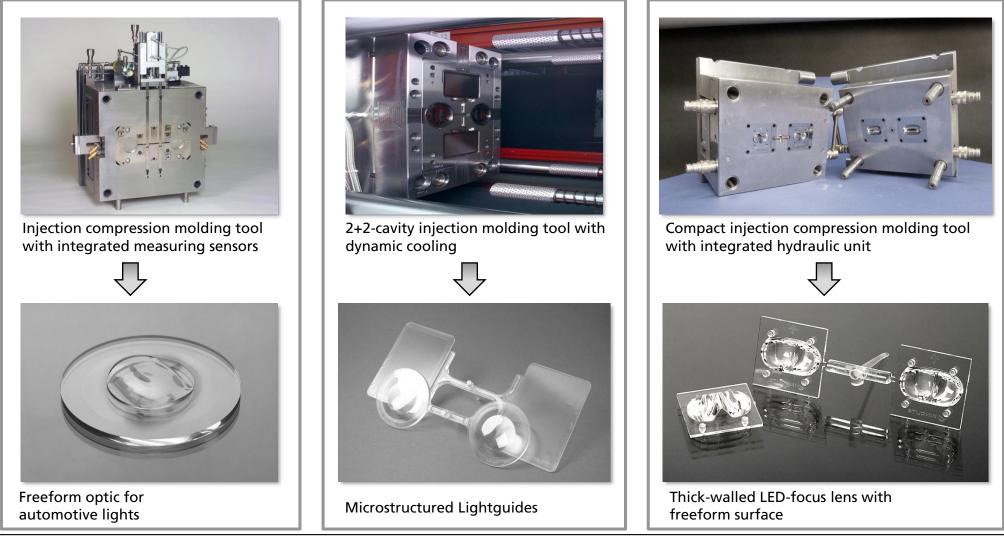


- Wide range of possible geometries
- Accuracies can be adjusted according to the field of application:
 - Imaging
 - Lighting
 - Laser Optics
- High reproducibility/ repeatability as a consequence of the molding process
- Scalable production through Spinoff companies and technology transfer

INGENERIC aix tooling



Replication of Polymer Optics at Fraunhofer IPT **Project examples of IPT mold and tool making**







Optics in Aachen

From Manufacturing over Assembly to System integration

