

# Meopta

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# Meopta

Meopta is your global partner for all of the world business for:

- Industrial Solutions
  - Semicon and FPD
  - Digital light projection
  - Medical
- Sports Optics Solutions
- Military Optics Solutions

**Meopta Optika s.r.o.**

Přerov

Czech republic

116 000 m2 area

CZECH REPUBLIC



**Meopta USA**

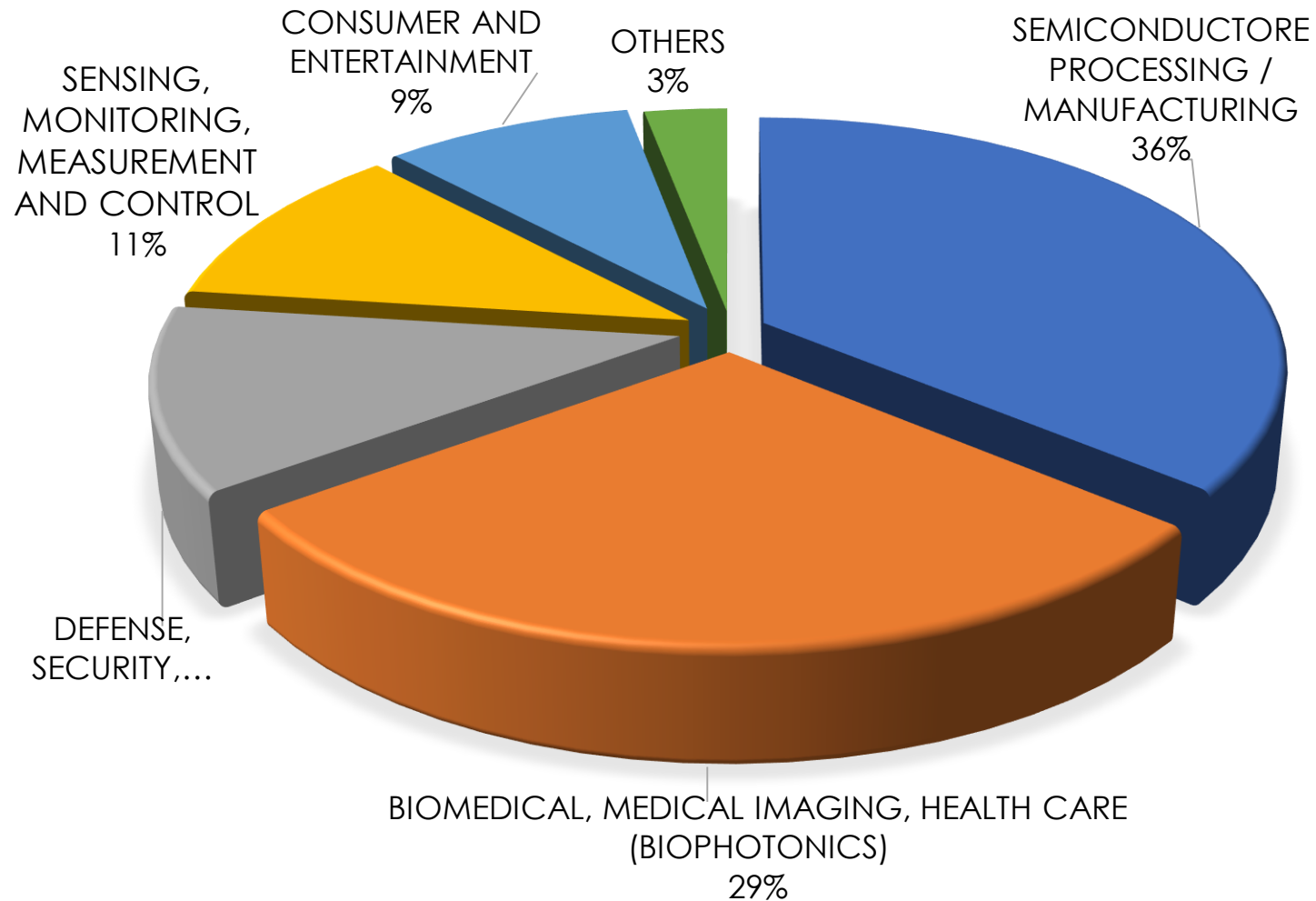
Tampa

Florida

UNITED STATES



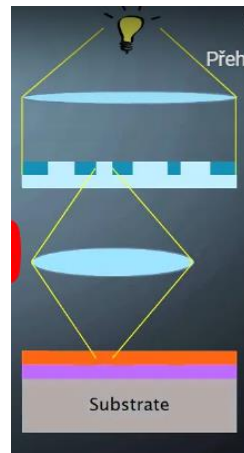
# MARKET SEGMENTATION



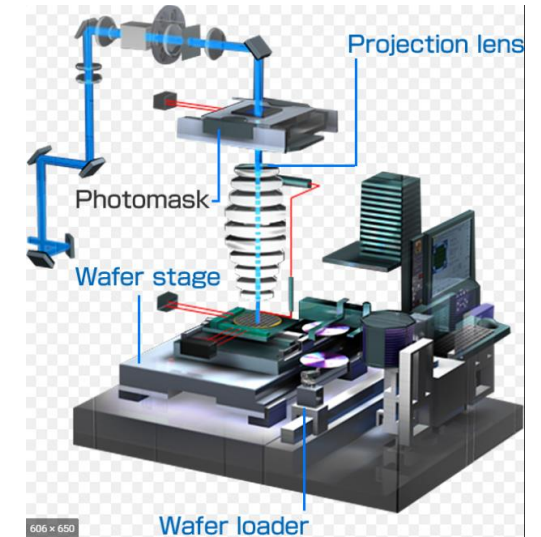
# Photolithography



Johanes Gutenberg –  
„knihtisk” – half of 15th  
century



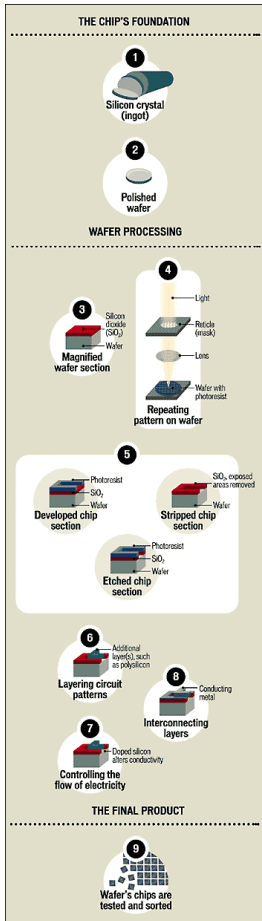
Photolithography – 19th  
century up to current times



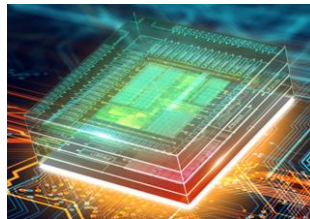
$$CD = k_1 \cdot \frac{\lambda}{NA}$$

# Photolithography

## Integrated circuits manufacturing process



Where the optics plays  
irreplaceable role ?



Photolithography



Optical inspection

# CERTIFICATION & SUPPLIER AWARDS



**ASML:** SUPPLIER COLLABORATION AWARD 2018

**KLA:** SUPPLIER TECHNOLOGY AWARD 2021

**APPLIED MATERIALS:** SUPPLIER OF THE YEAR AWARD 2013

QUALITY STANDARD CERTIFICATES:

- ISO 9001: 2019 Meopta – Optika, s.r.o.
- ISO 9001: 2019 Meopta SYSTEMS, s.r.o.

INTERNATIONALLY AGREED ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE:

- ISO 14001: 2019 (EMS) Meopta – Optika, s.r.o.
- ISO 14001: 2019 (EMS) Meopta SYSTEMS, s.r.o.

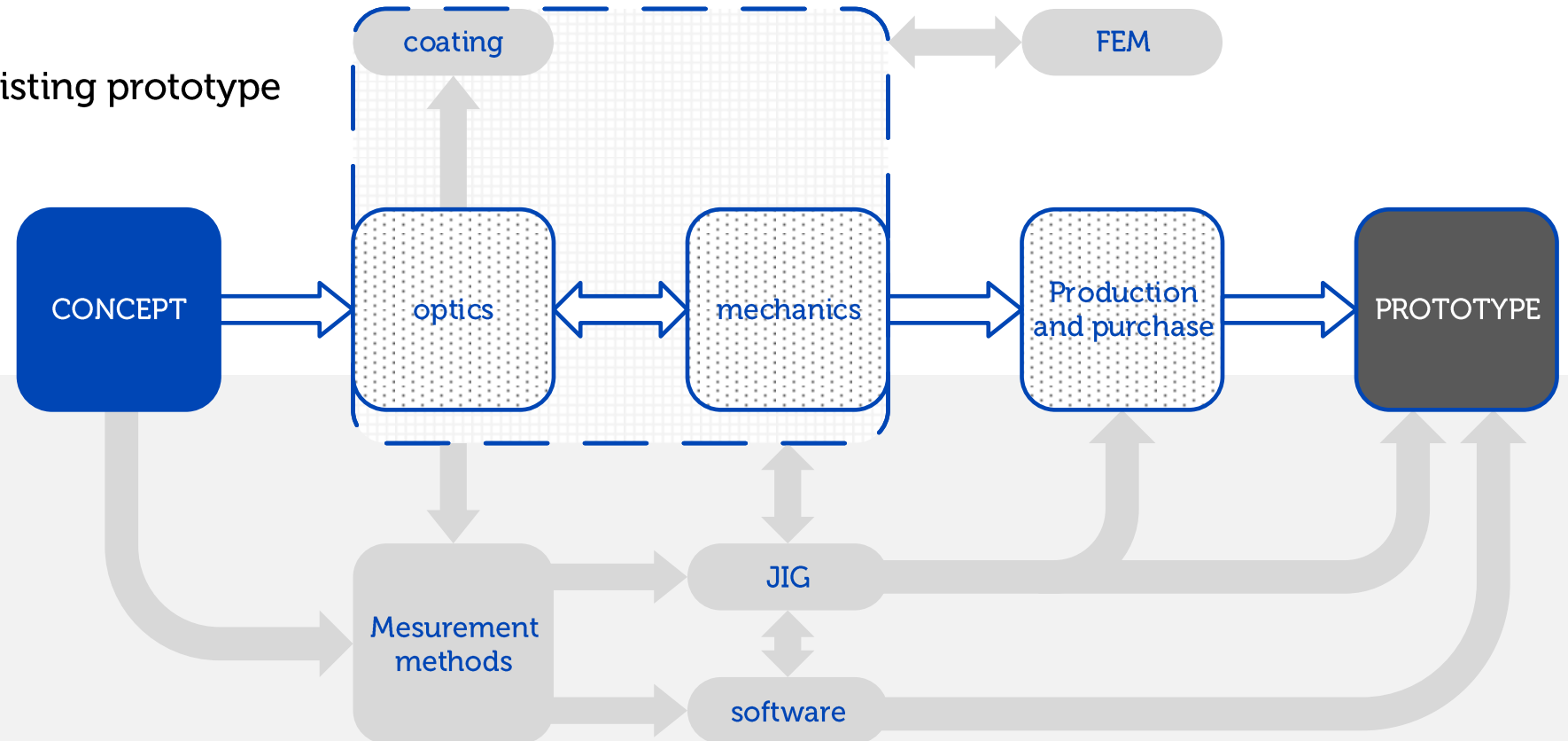
# WHAT WE OFFER / OUR PRODUCTION AND SERVICES

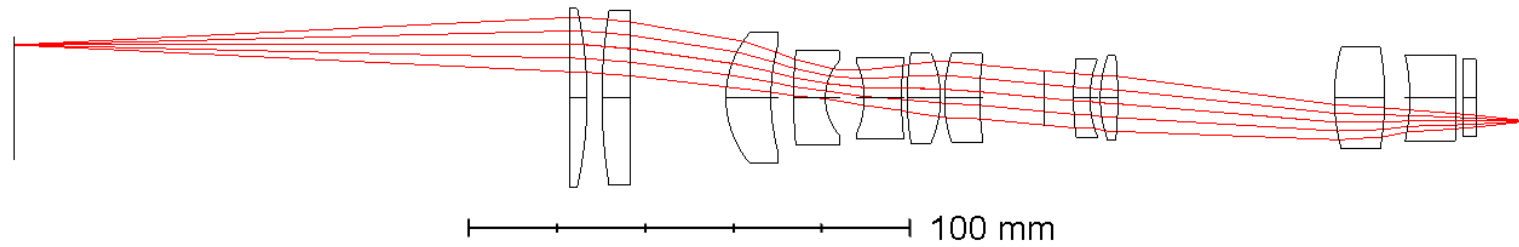


- Accuracy to  $\pm 0,001$  mm
- Clean room class 10/100/1000/AMC
- Area 3000 m<sup>2</sup> Active
- Precise centering of optical components in mechanical bodies
- Assembly with predefined axial distances between optical components
- Electro assembly in ESD protected area
- Technologies to eliminate contamination of inner optical surfaces
  - with dust and humidity
- Assembly of day and night vision products
- Ultrasonic cleaning of mechanical and optical components
- Hepa Filters, Ulpa Filters, AMC Filters

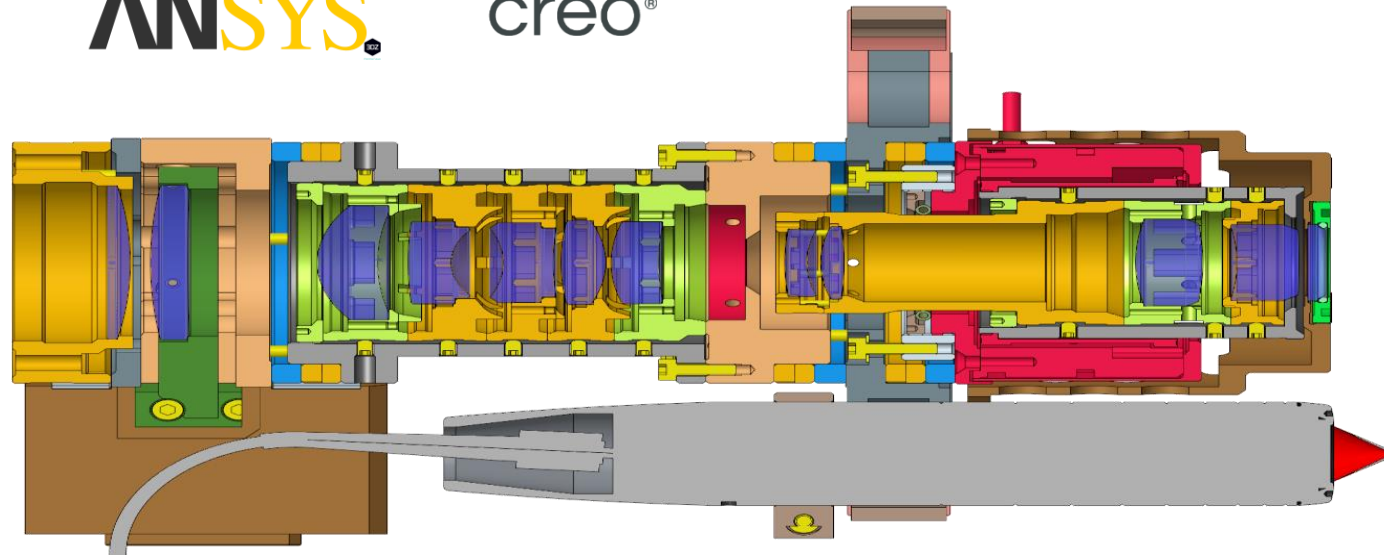
# Meopta process

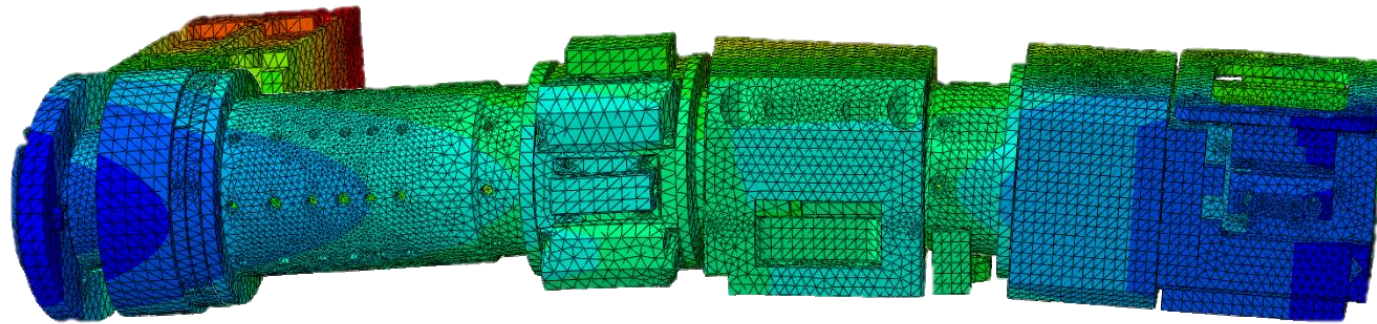
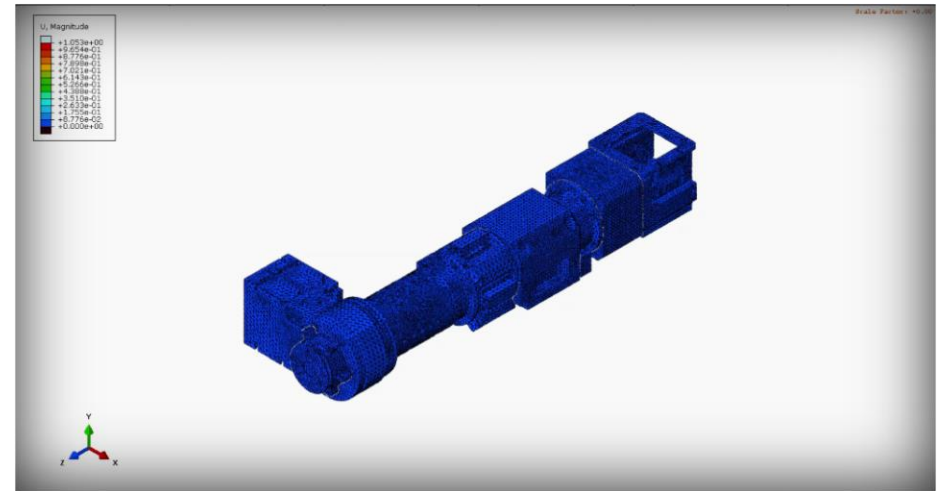
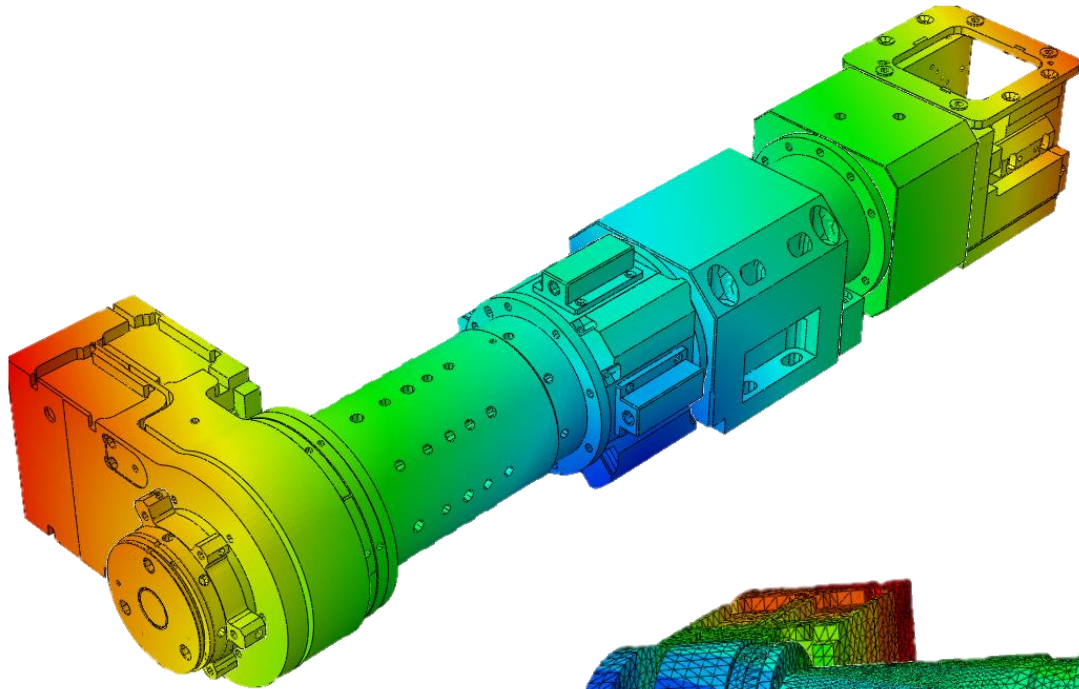
Full chain from  
initial idea up to the existing prototype

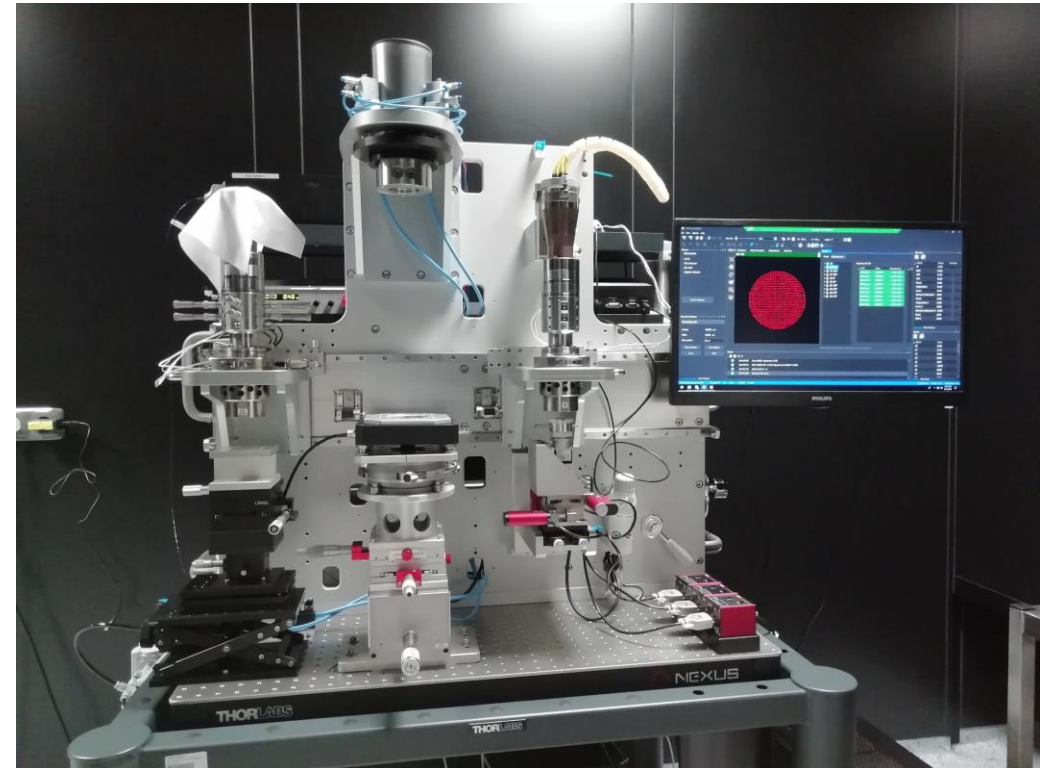
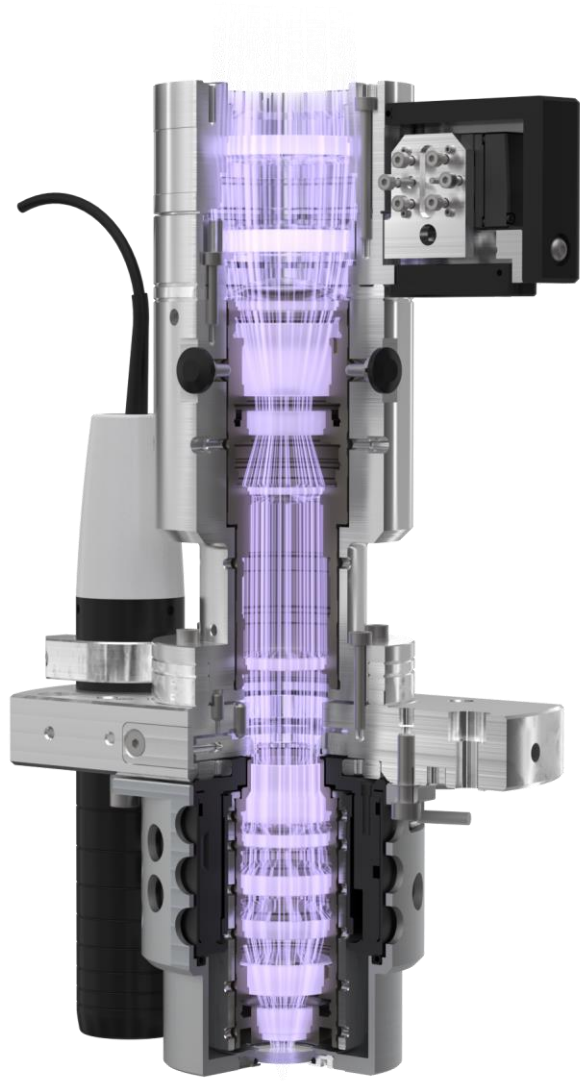




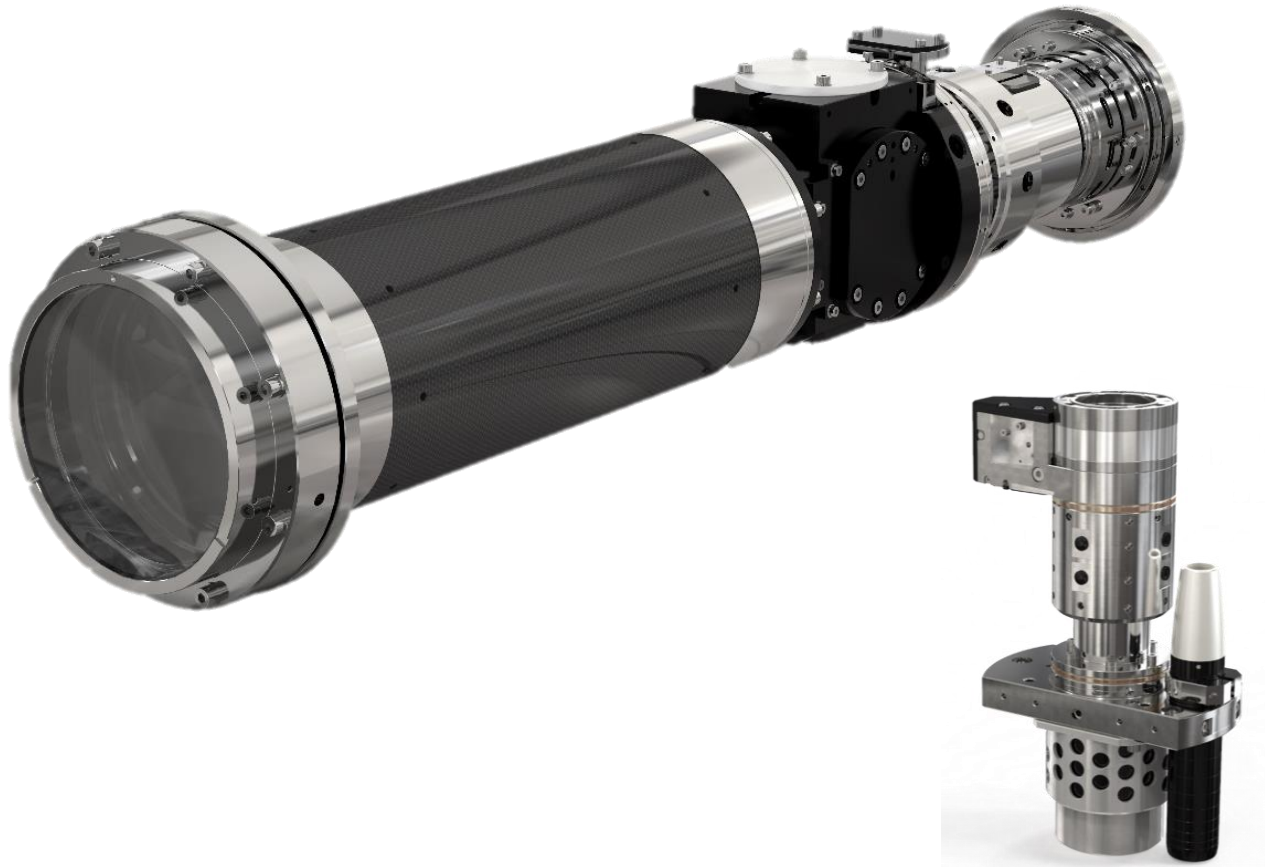
CAD & FEA THERMAL & STRUCTURAL







# Examples of products





Palacký University  
Olomouc



# COOPERATION WITH INSTITUTIONS

This collaboration allows us to stay on top in various research and development projects.

- Palacky University in Olomouc
- Czech Technical University in Prague
- University of Technology in Brno
- Czech Academy of Sciences
- Institute of Scientific Instruments (UPT Brno)
- HiLASE centre
- TopTec
- Joint lab of optics Olomouc

# Thank you

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For Your Attention

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