



ECOGLASS

MORE THAN GLASS !

MORE THAN GLASS !

WHO WE ARE

- ECOGLASS is 100% Czech family owned company based on the best quality and tradition of Czech glassmakers.
- Established in 1991, financially stable company working without bank credits.
- ECOGLASS is backed by in house developed and patented technologies and strong knowledge on glass behavior and technology
- We manufacture, sell and distribute high quality glass products, we are not low end supplier.
- ISO certified – ISO 9001, ISO 14001

WHAT YOU GAIN

WORKING WITH US

- Deep process knowledge in glass technology and optical design
- Strong customer support
- All under one roof
 - › Optical design and simulations
 - › In-house toolshop (CNC milling and turning machine)
 - › Prototyping and prototype verifications
 - › Serial deliveries
 - › Technical and functional evaluations
- Experience
- Flexibility
- Stability



MANUFACTURING PLANT

3000 m² with about 40 employees

Space available for new or additional technology investments



OUR PRODUCTS

Lenses and mirrors

TIR collimators

Lens arrays

Light guides

Prisms

Cover glasses

Gauge glass

Meniscus lenses

Our standard optics

OUR PRODUCTS

LENSES AND MIRRORS

- Aspherical
- Spherical
- Freeform
- Fresnel
- Plano-convex



OUR PRODUCTS

TIR COLLIMATORS
LENS ARRAYS
LIGHT GUIDES



OUR PRODUCTS

PRISMS
COVER GLASSES
GAUGE GLASS
MENISCUS LENSES





OUR STANDARD OPTICS

• [On-line shop](#)



TECHNICAL INFORMATION

Available glass materials

Soda-lime with $n=1.521$

Borosilicate with $n=1.473$

B270 with $n=1.5230$

*Special glasses upon request
and availability of raw material*

General limits for product size

By weight: 300g

*By maximum dimension: up to
100mm*

APPLICATIONS

Automotive

Railway

Street lighting

Airfield and Runway

General lighting

LED primary optics

Traffic display panels

Optoelectronics

Solar power plants

Marine, medical and military

Design and decorative items

APPLICATIONS

AUTOMOTIVE

- Primary and secondary optics of car headlamps
- Lidar applications



APPLICATIONS

AUTOMOTIVE

- Glass interior decorative parts
- Push buttons
- Glass interior molded crystal parts





APPLICATIONS

RAILWAY

- Train headlights
- Signal lights



APPLICATIONS

STREET LIGHTING





APPLICATIONS

AIRFIELD AND RUNWAY

- Prisms
- Omnidirectional lights
- Collimators





APPLICATIONS

GENERAL LIGHTING

- High efficiency glass lenses for LED or laser sources
- Indoor, outdoor and industrial lighting



APPLICATIONS

LED PRIMARY OPTICS



APPLICATIONS

TRAFFIC DISPLAY PANELS

- Glass optics for LED information displays

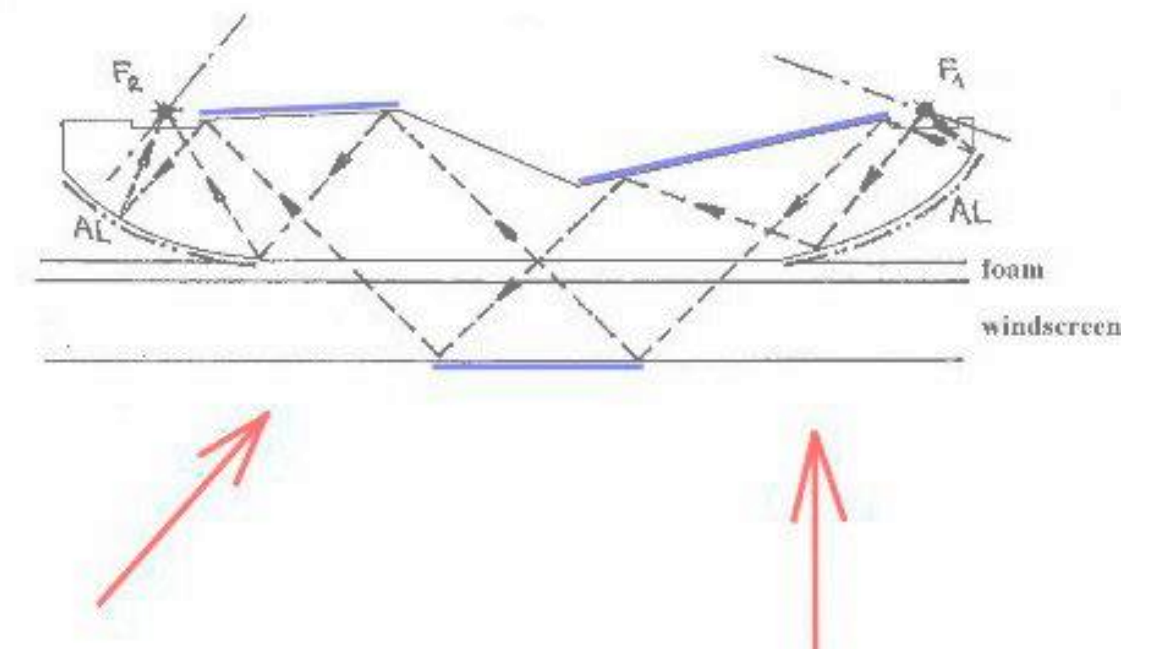




APPLICATIONS

OPTOELECTRONICS

- Rain wiper with Optical Sensor Czech Rep. No. 285291
- Optical precipitation Sensor US Patent Appl. No. 20020033459
- Level measurement



APPLICATIONS

OPTOELECTRONICS

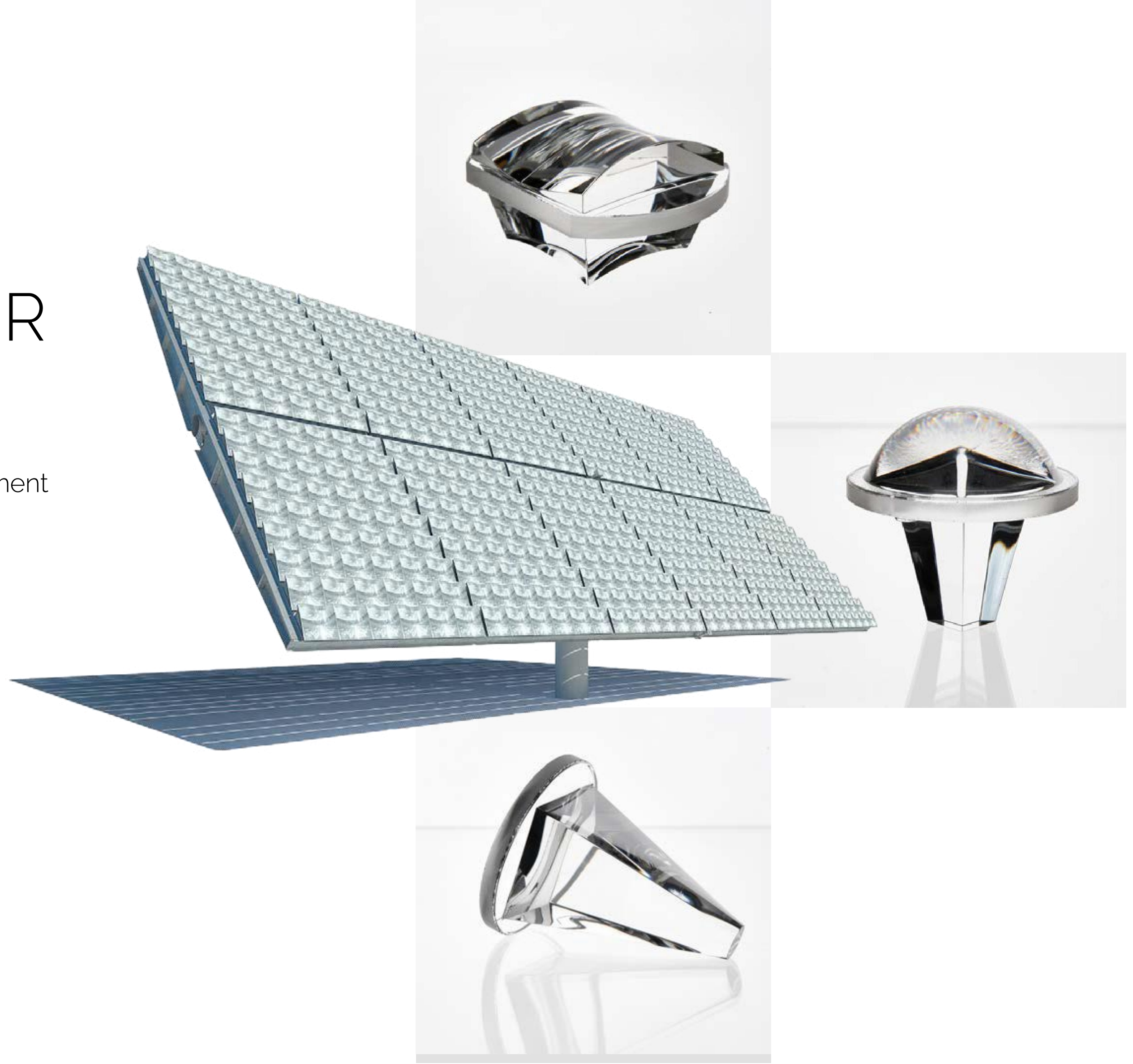
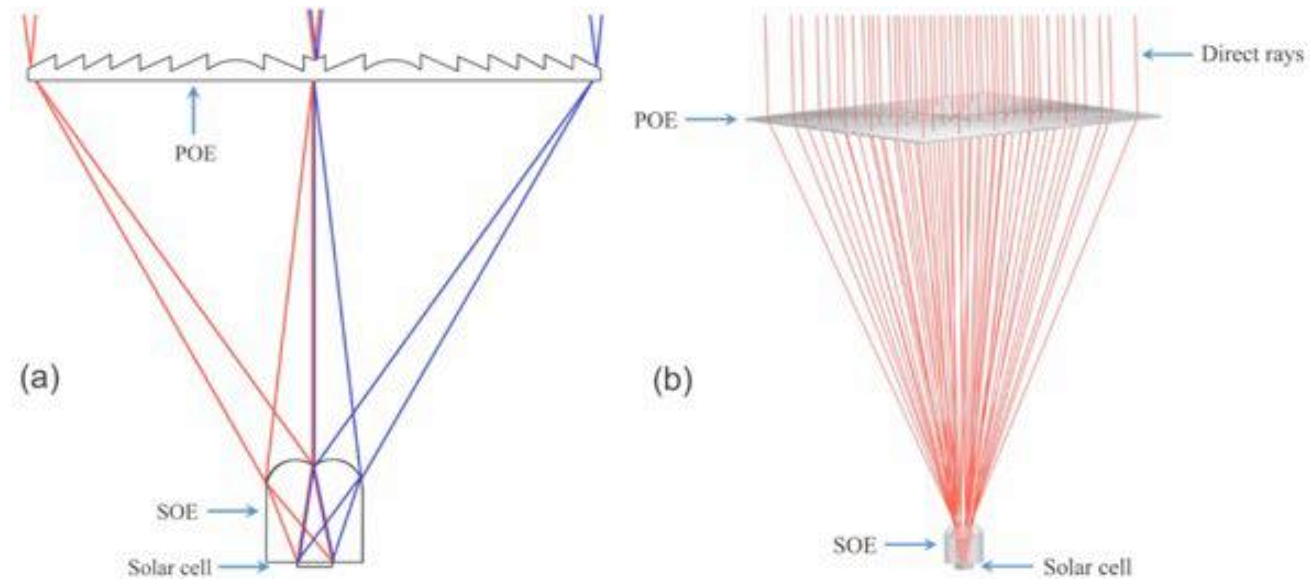
- Security system - Coated optics
- Use of a special software enables recalculation of an image from coated convex lens surface to panoramatic image of a room – only one non-movable camera enables view of the whole room



APPLICATIONS

SOLAR POWER PLANTS

- SOE for CPV – secondary optical element for concentrator photovoltaics

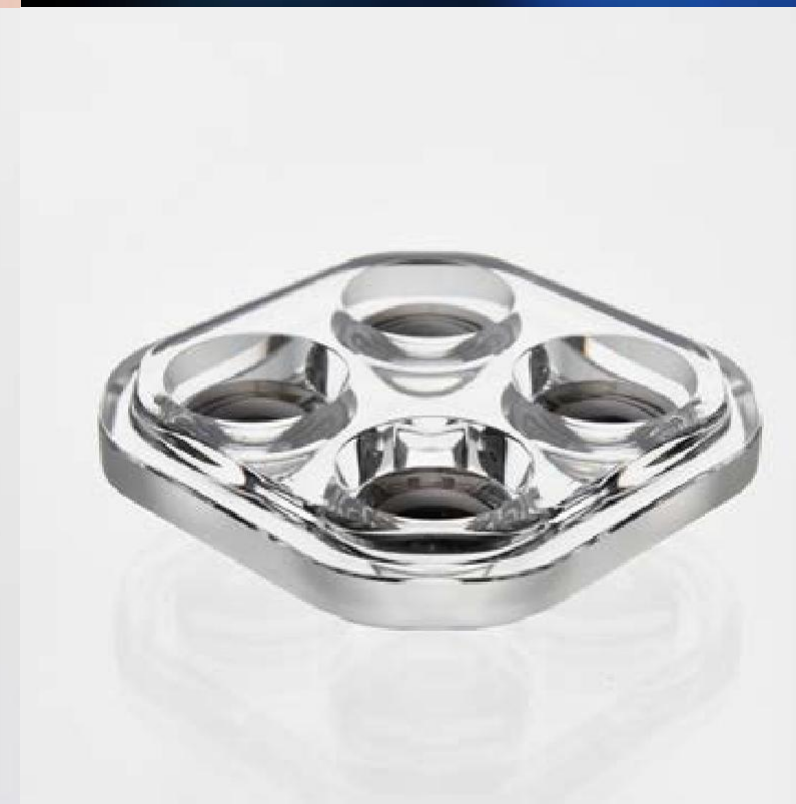
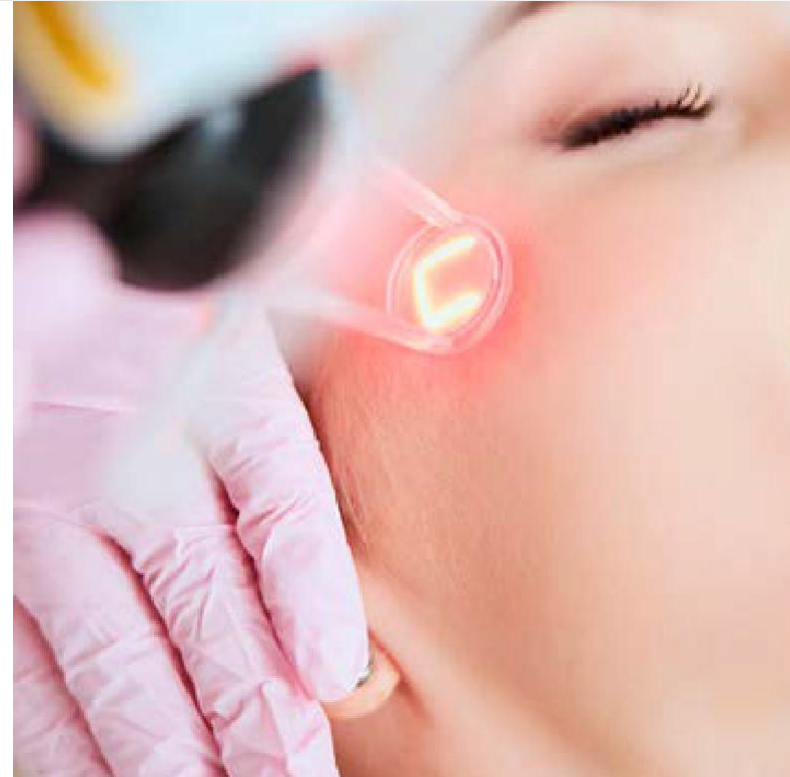




APPLICATIONS

MARINE, MEDICAL AND MILITARY

- Boat lights
- Search lights
- Flood lights





APPLICATIONS

DESIGN AND DECORATIVE ITEMS

- Glass giftware
- Decorative glass parts



SERVICES

Optical design and optical simulation

Photometry measurement and evaluation

3D Scanning and reverse engineering

3D tactile measurement

Glass technology consulting

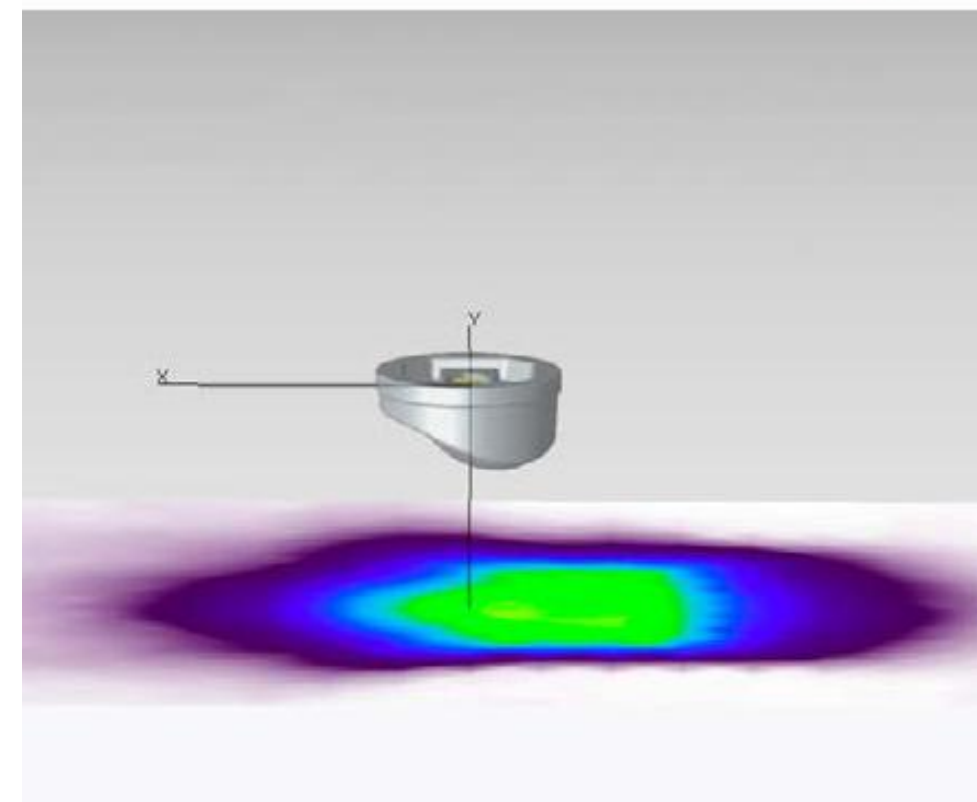
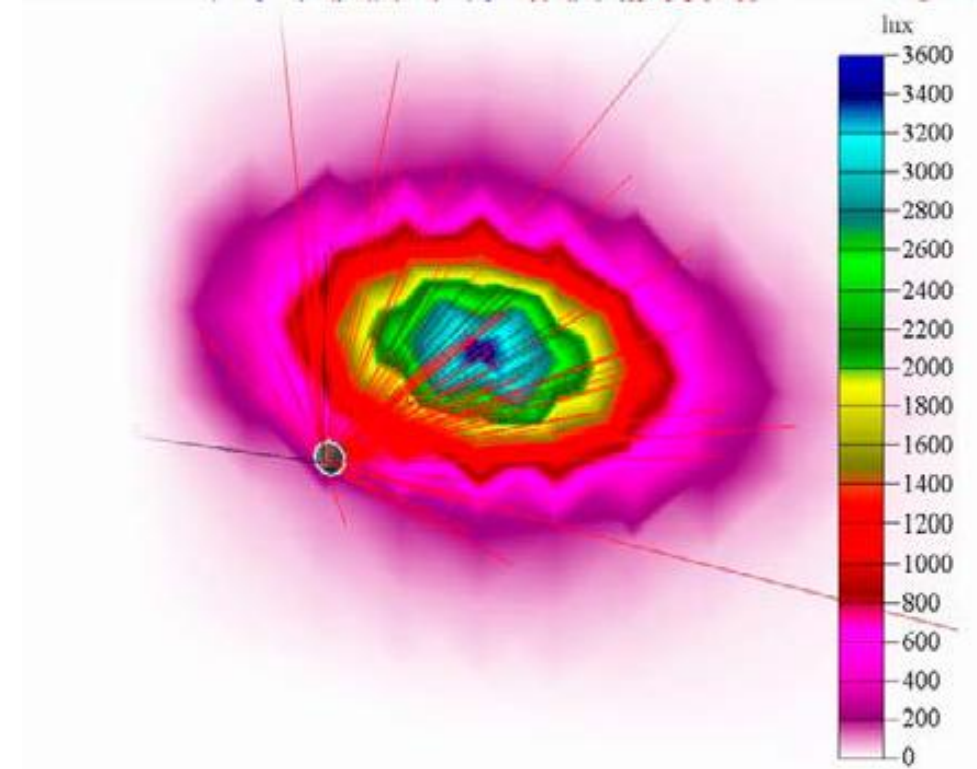
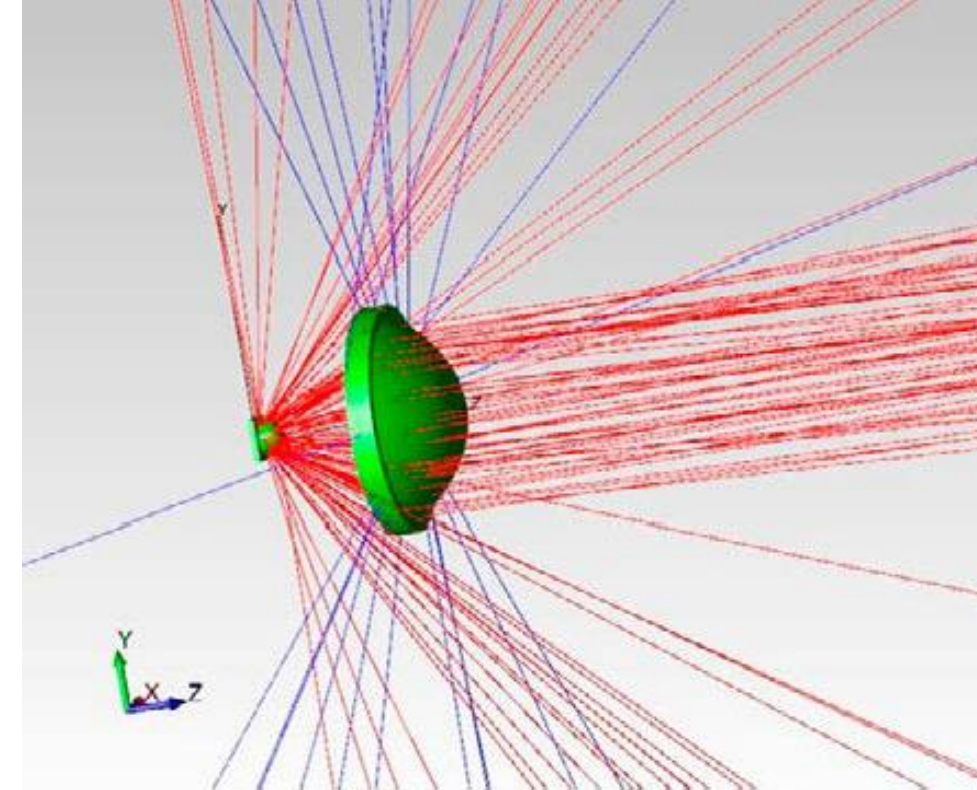
CNC metal machining

Laser engraving of metals and glass

SERVICES

OPTICAL DESIGN AND OPTICAL SIMULATION

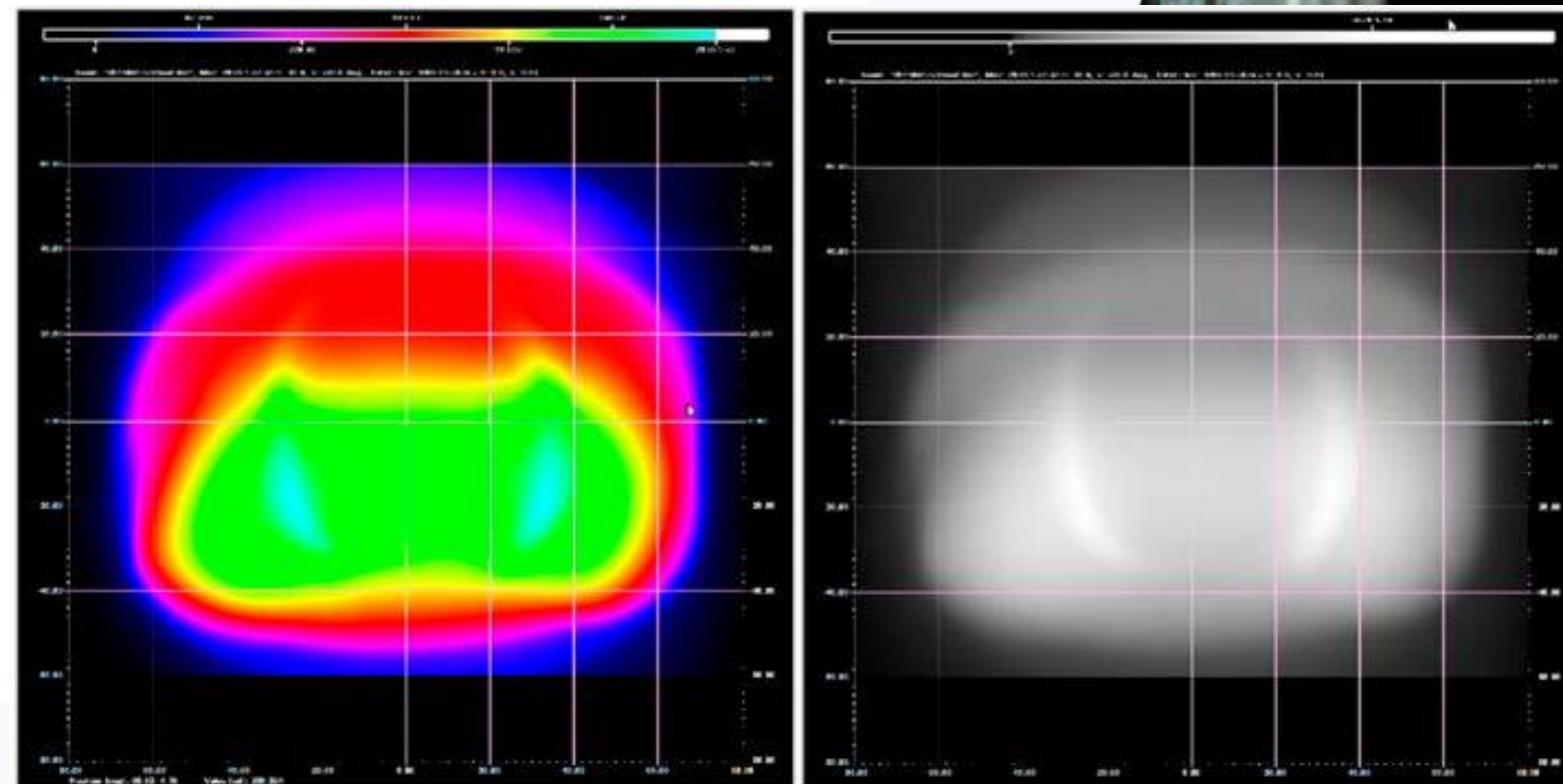
- TracePro



SERVICES

PHOTOMETRY MEASUREMENT AND EVALUATION

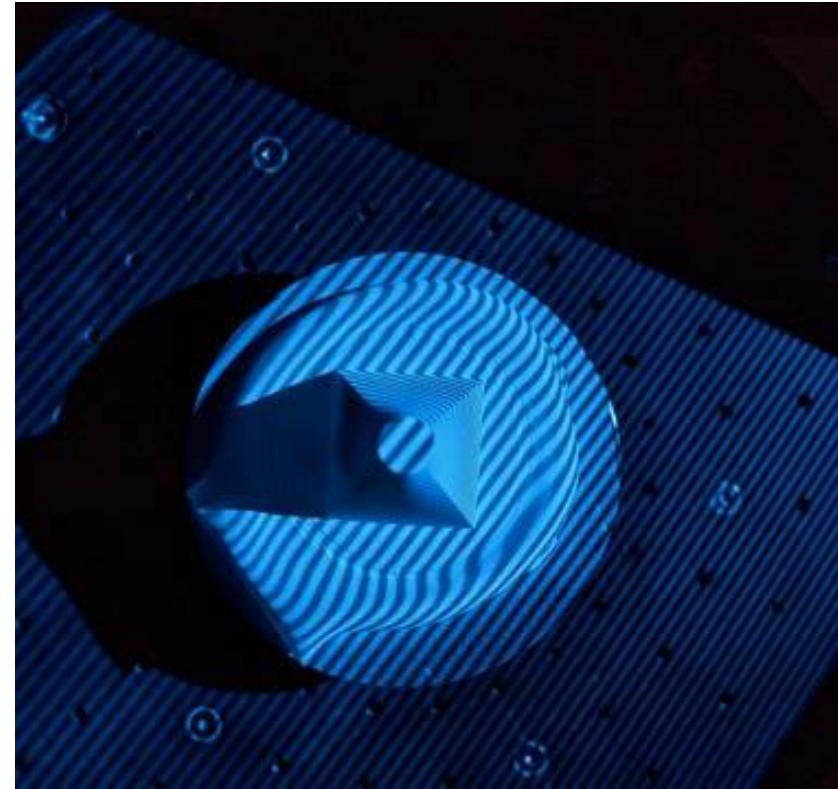
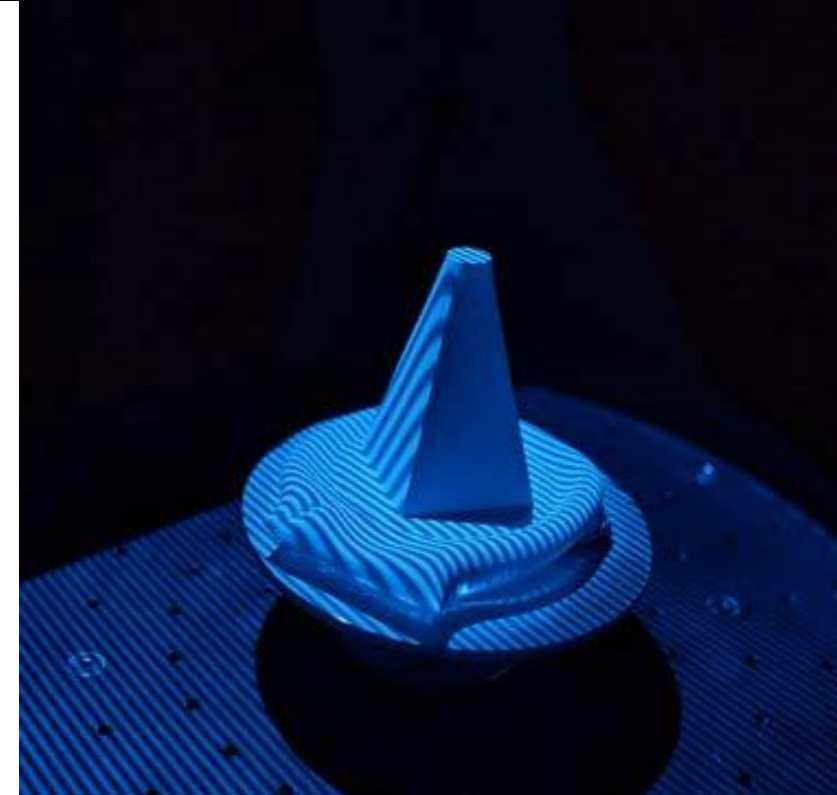
- CCD camera
- Goniophotometer



SERVICES

3D SCANNING

- Shape verification
- Error analyses
- 3D model reconstruction from a physical sample



SERVICES

3D TACTILE MEASUREMENT



SERVICES

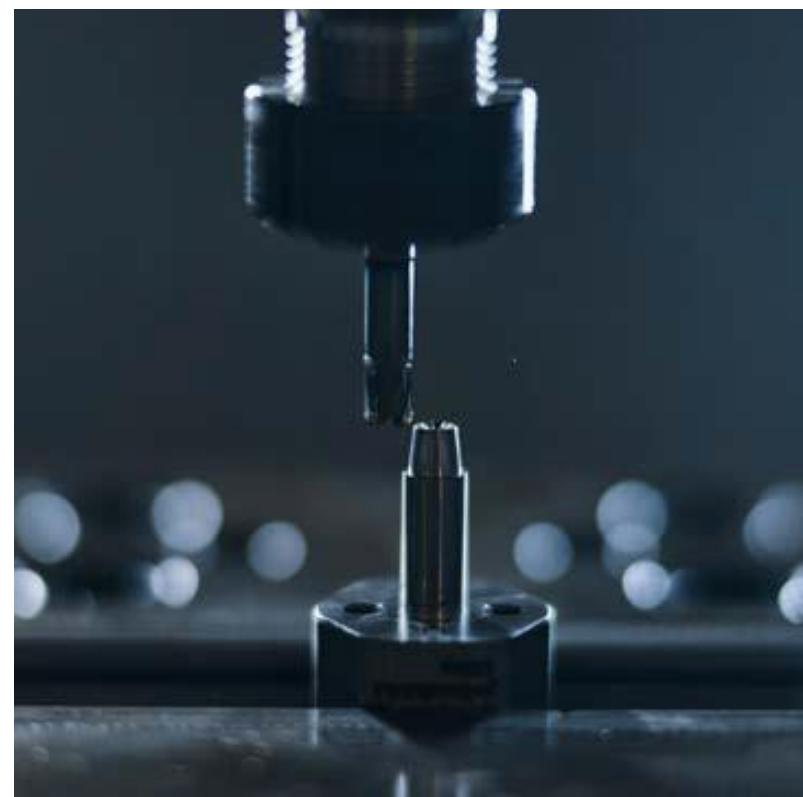
GLASS TECHNOLOGY CONSULTING

- Annealing calculations
- Glass properties calculation
- Glass composition optimization
- Transmission/reflection measurement
- Color evaluation



SERVICES

CNC MILLING CENTRE



LASER ENGRAVING OF METALS AND GLASS

TRADE

Chandelier Trimmings and crystal parts

Decorative glass items

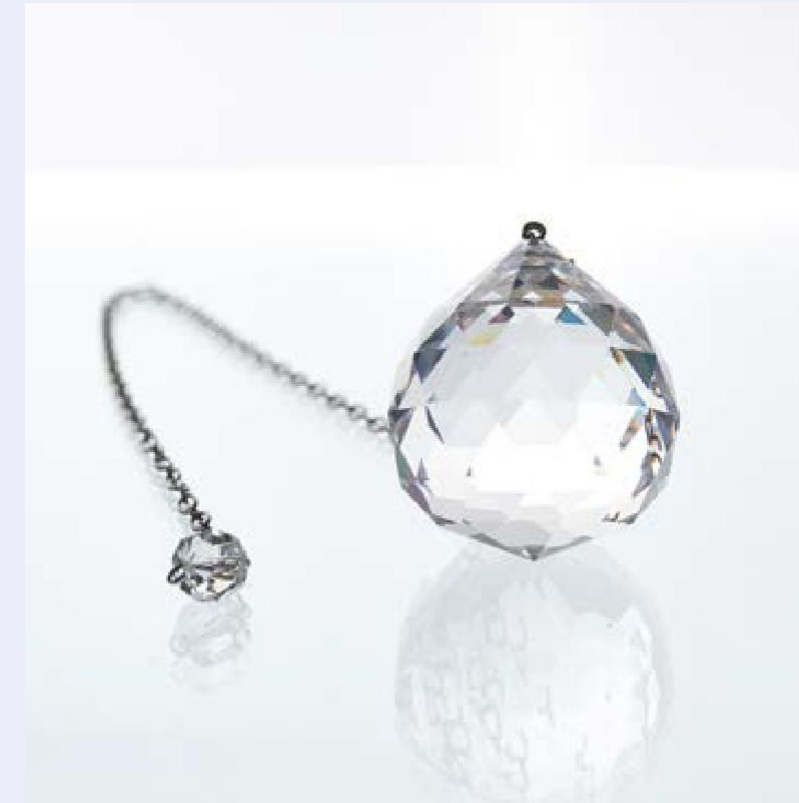
Glass giftware

Technical glass

TRADE

CHANDELIER TRIMMINGS AND CRYSTAL PARTS DECORATIVE GLASS ITEMS

GLASS GIFTWARE





TRADE

TECHNICAL GLASS



AWARDS

- Family company of the year 2nd place 2020
- Company of the Year 2nd place in Liberec Region 2020
- Company of the Year 1st place in Liberec Region 2021 and 2nd place in national round 2021
- Czech Leader in Liberec Region 2019
- Gratias Tibi Ago 2016 – ECOGLASS honored by the mayor of Jablonec nad Nisou for creating a long term positive reputation of the city





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