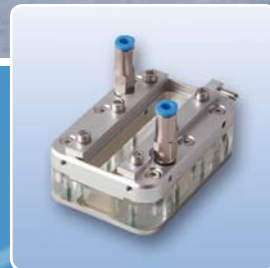




OptoPrecision Industrial Solutions



*Innovative measurement, monitoring
and process control technologies*

About us



Specific and challenging solutions for measurement, monitoring and process control technologies

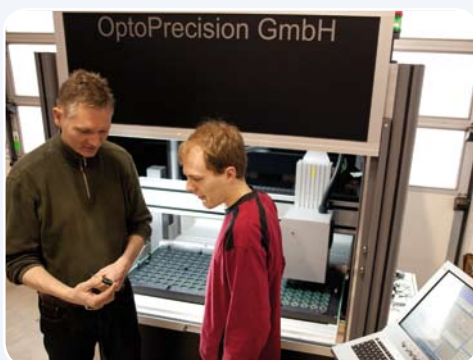
OptoPrecision Industrial Solutions

OptoPrecision specialises in developing, engineering and manufacturing individual and challenging measurement, monitoring and process control technologies. As an innovative company focusing on technology we predominately operate in aerospace, heavy industry, power supply industry, heat treatment and research.

Along with our established products, we also offer bespoke development and engineering work, as well as custom designed image processing and optical systems.

We offer products and services in the following areas:

- Hot zone imaging
- Non-destructive testing
- Laser infrared illumination
- Customer-specific systems
- Research & development



Company



Three innovative companies under one roof

Three companies belong to the group: OptoPrecision GmbH, OptoPrecision Security Systems GmbH and Nägele Feinwerktechnik GmbH, which are all located together under one roof. This allows a fast and flexible service. Our vertical integration provides a high degree of identification with the company, its products and services.

OptoPrecision Security Systems operates as a sales and marketing company for OptoPrecision GmbH and offers operational technology to government agencies (e.g. police, military and security services).

The product portfolio includes infrared laser illumination, cameras, recorder, video surveillance systems and night vision devices.

Nägele Feinwerktechnik offers accurate, innovative and reliable services in the field of precision engineering and CNC manufacturing for the aerospace, optical and mechanical engineering industries.

Find more about us:

www.optoprecision.com
www.n-ft.de



Hot zone imaging



Applications



Steel industry



Energy supplier



Heat treatment

Process monitoring and control technology in hot and dusty environments

Ever increasing energy costs requires the constant optimisation of 'hot processes' in order to be able to use less resources for the same process goal. In order to achieve this, non-contact optical technologies are increasingly playing an important role.

Our furnace cameras are designed for process monitoring and control in industrial furnaces and other thermal plants.

Special heat insulation and cooling systems allow their use at temperatures of up to 2000° C.

The support of the image analysis means that important process parameters can be controlled and optimised. Recording the image data also ensures complete documentation of processes.

In addition to fixed cameras, we also offer mobile systems.

Examples of our product range:



Air-cooled furnace camera



Water-cooled camera
for heat treatment



Portable endoscopic
furnace camera

Non-destructive testing (NDT)



Applications



Aviation



Aerospace



Wind energy

Non-destructive testing (NDT) with optical, mechanical and ultrasonic measuring technology

When checking objects for defects or testing the performance of a production process, it is necessary to use a non-destructive testing technology to avoid damaging the actual objects. This is particularly applicable when testing fibre-reinforced composites (GFRP, CFRP) or welding seams.

For these situations OptoPrecision offers a large range of manual and fully automated non-destructive testing technologies (NDT).

The developed non-destructive testing devices are based on optical, mechanical or ultrasonic measuring technologies.

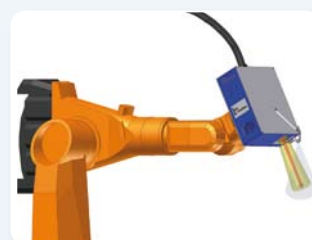
Our devices are used for production and maintenance within the aerospace, wind power (rotor blades) and automotive industry.



Elasticity Laminate Checker (ELCH)

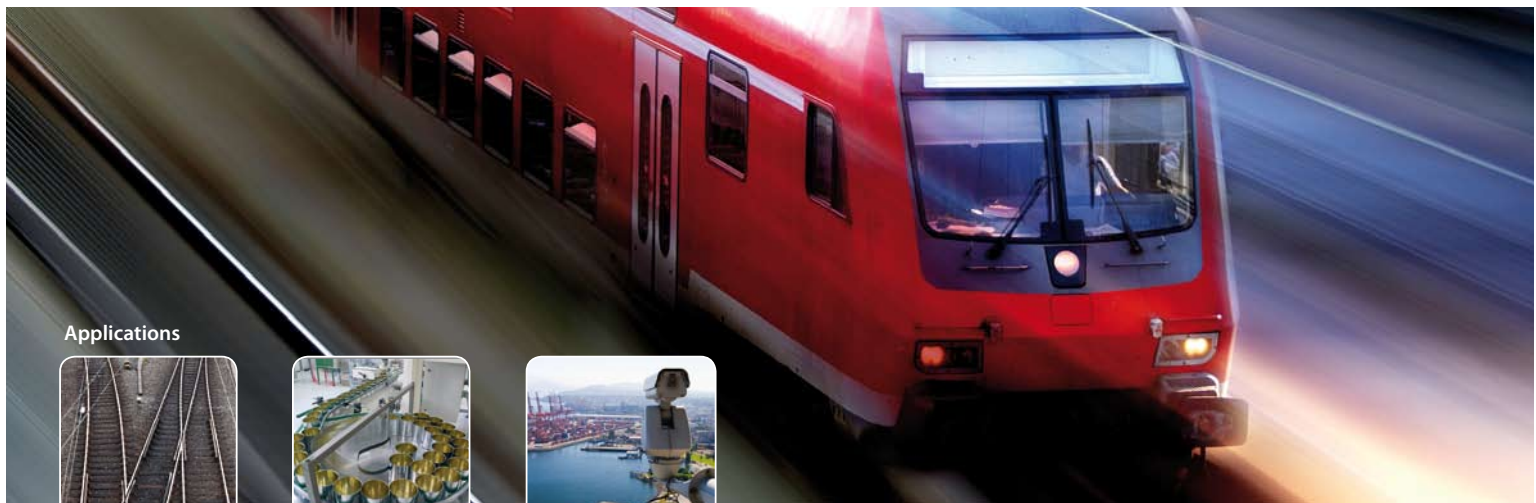


WaterBox



Hydro Surface Check (HSC)

Laser infrared illumination



Applications



Transport & logistics



Manufacturing industry



Security systems

High performance illumination for quality assurance in industrial processes

In the field of industrial image processing, achieving optimum illumination plays a key role in carrying out assessments of parts. To meet this requirement OptoPrecision developed a diode-based laser. The main goal is to achieve uniform illumination of the measuring area at constant high intensity.

Our devices are constructed to perform consistently in harsh industrial environments.

Our lighting solutions are particularly suitable for daylight-independent quality measurements of surfaces of very fast production processes and quality inspections. E.g. manufacture of strip materials such as films, fabrics, metals, etc., or for monitoring the condition of railroad tracks.

Additional products from our LaserFlash-series provide support to the special forces of the police and military for under-cover and night vision operations, as well as for surveillance in and around buildings.

Examples of our product range:

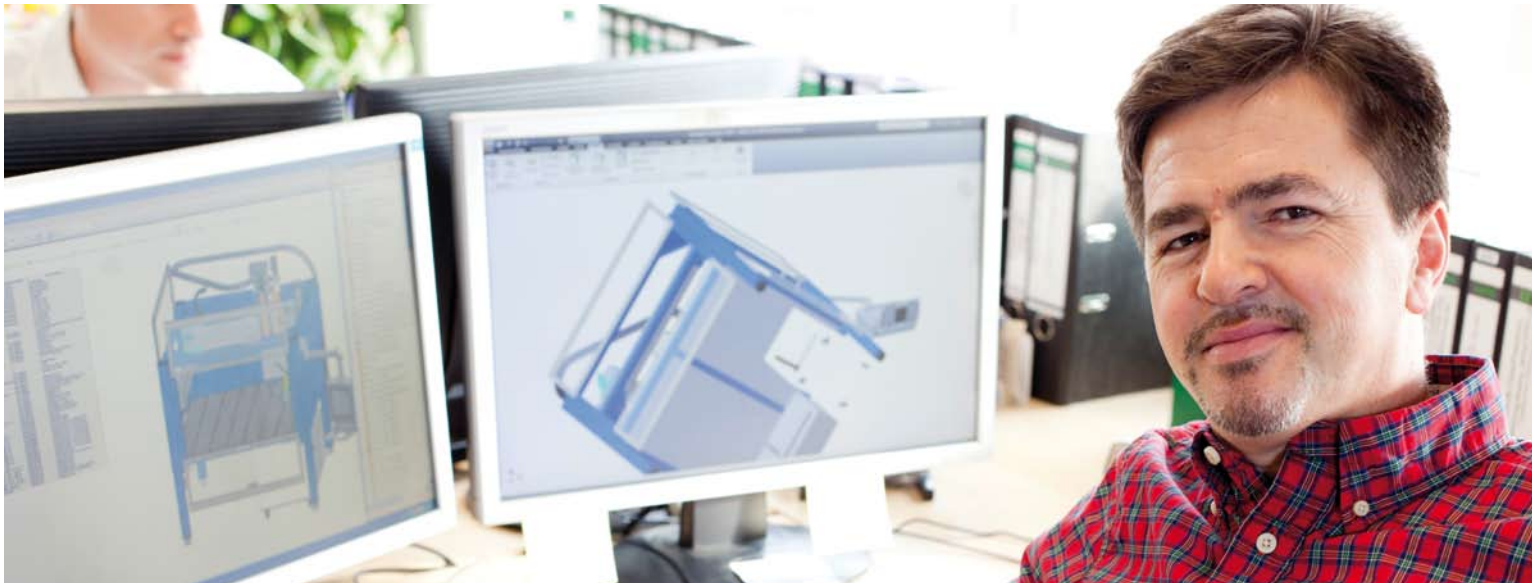


LaserFlash CQ



LaserFlash P

Customer-specific systems



Development, engineering and manufacture of optical and measuring technologies

OptoPrecision is a reliable partner to customers from project design, all the way through to the on-site integration and ongoing system maintenance. Working in close co-ordination with the customer, we offer our expertise in implementing measurement and control tasks.

Research and development

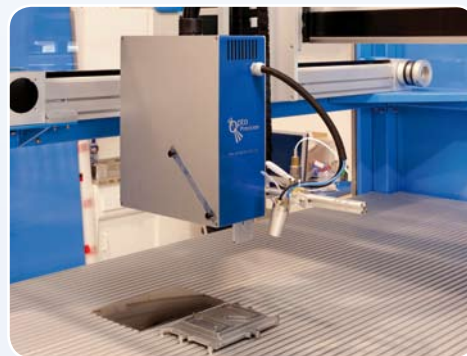
Our research and development team is working every day to provide innovative and bespoke solutions for our customers.

Engineering

Working closely with the development department, our engineering team uses their expertise to manufacture special purpose machines.

Manufacture

Nägele Feinwerktechnik GmbH operates as part of the OptoPrecision Group and is a capable and experienced partner for CNC manufacturing. Our close proximity and connectivity to each other allows our co-operation to be fast and flexible.





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