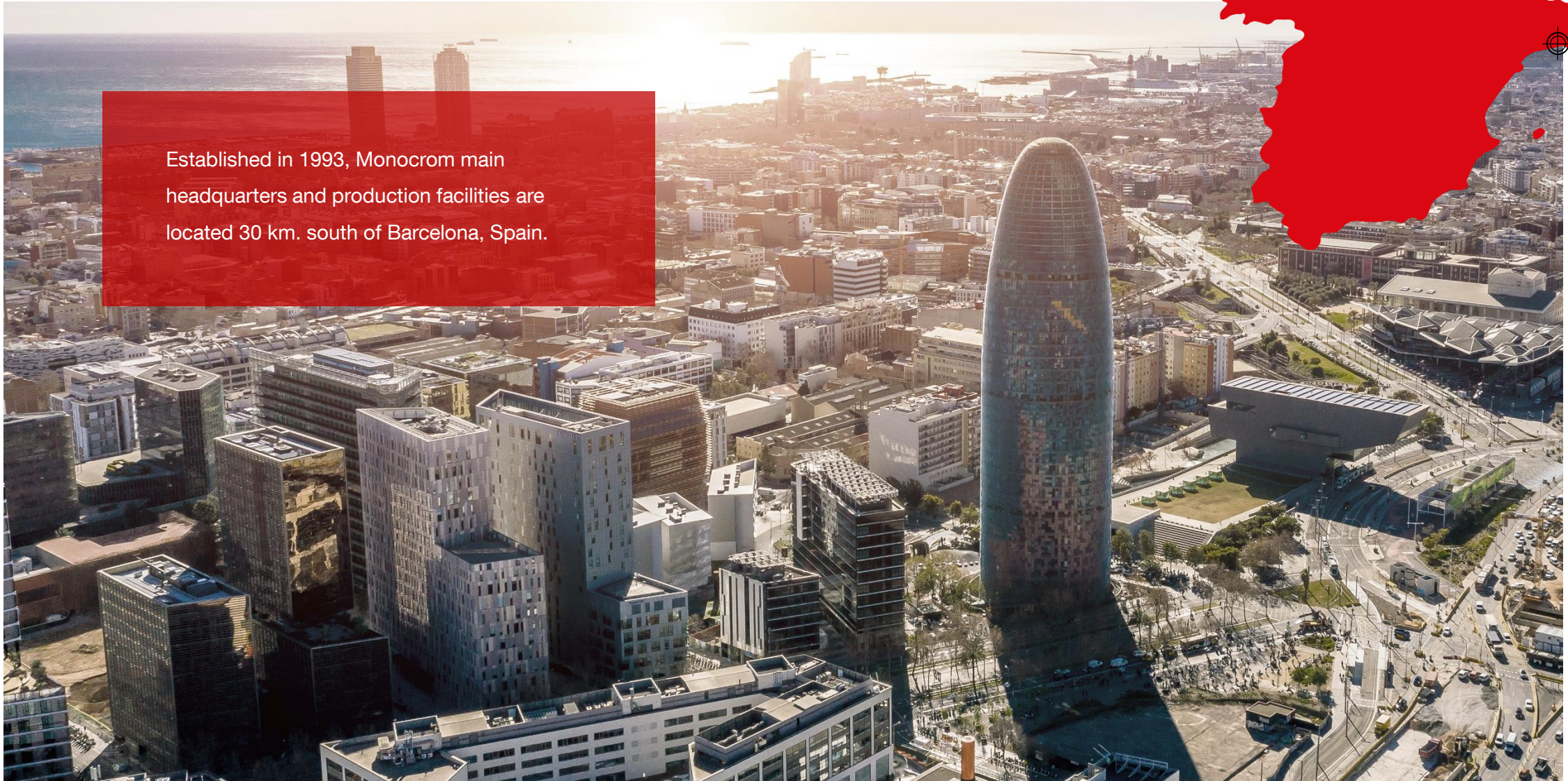


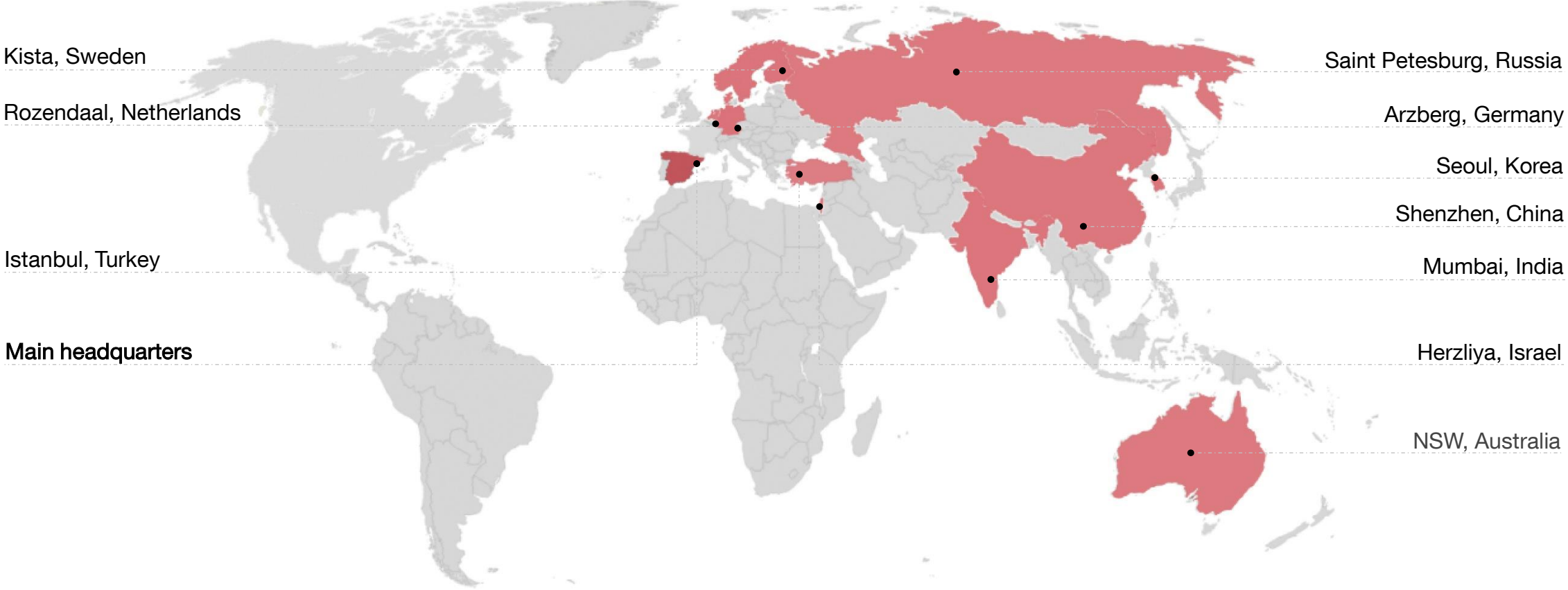


Location



Established in 1993, Monocrom main headquarters and production facilities are located 30 km. south of Barcelona, Spain.

Sales representatives



Who we are

PHOTONICS technology has a unique potential to revolutionize almost every industry and area of our life. Monocrom aims on bringing laser-based solutions to those sectors and industries where today's conventional technologies are reaching their limits in terms of speed, precision, efficiency and sustainability.

Founded in 1993, Monocrom designs and produces a wide array of diode-based laser components and systems under high quality standards. Flexibility and production capacity allow us to develop standard or OEM products, small quantities or large volume, to many industries.

Monocrom laser components and systems enable advancements in many industries and are used successfully in Medical Therapies and Diagnostics, Aesthetics Treatments, Ophthalmic Surgery, Optical Pumping, Test and Measurement Instrumentation, Offset Printing, Quality Assurance, LIDAR systems, Material processing, Science Research, Automotive and Security applications.

We have a portfolio of standard products for quick delivery and a capability to offer customized products based on the standard ones withing short delivery time. Or bring us your application and we will build your 100% custom-fit laser solution.

We hold an application-focused team of skilled photonics experts, engineers and scientists and an international sales team that works in close partnership with our customers locally, regionally and globally offering an all-round service and long-term support.

Our objective is to supply the highest quality diode lasers and service to meet the expectations of our customers.

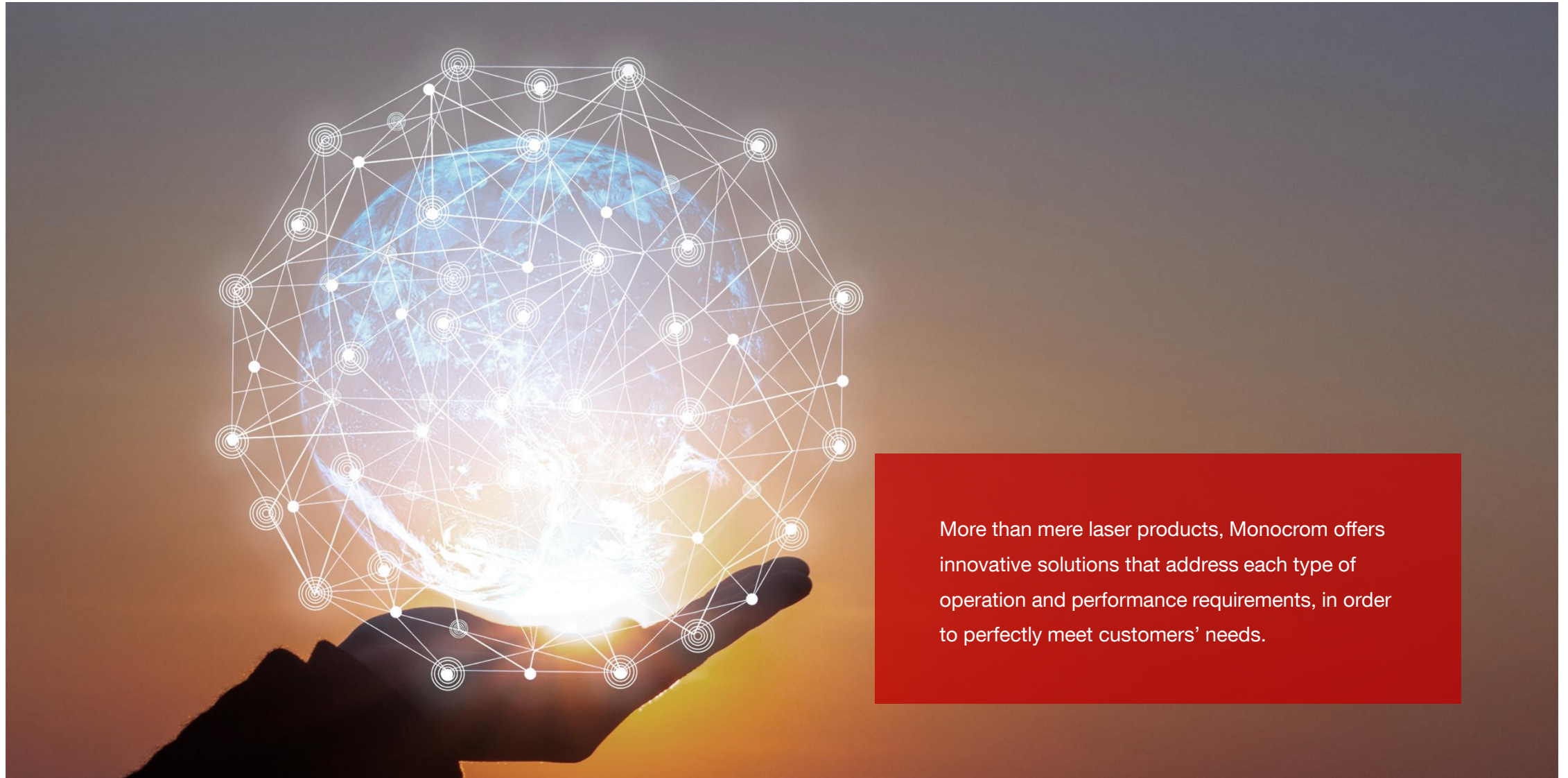
Commitment to excellence



“We strive to constantly meet the highest quality standards in the design, manufacturing and distribution of our products.”

Delfí Lopez Queraltó, *CEO of Monocrom*

Innovation



More than mere laser products, Monocrom offers innovative solutions that address each type of operation and performance requirements, in order to perfectly meet customers' needs.

Expertise



Our experienced engineering team supports product development proving indispensable in cost savings, risk mitigation and time to market reduction.

Quality



At Monocrom, we deliver effective laser solutions to growth market sectors. We combine the use of cutting-edge technologies on an integrated series of high precision processes that underpin clean room facilities and world class capabilities

Facilities



Facilities 1400 m²

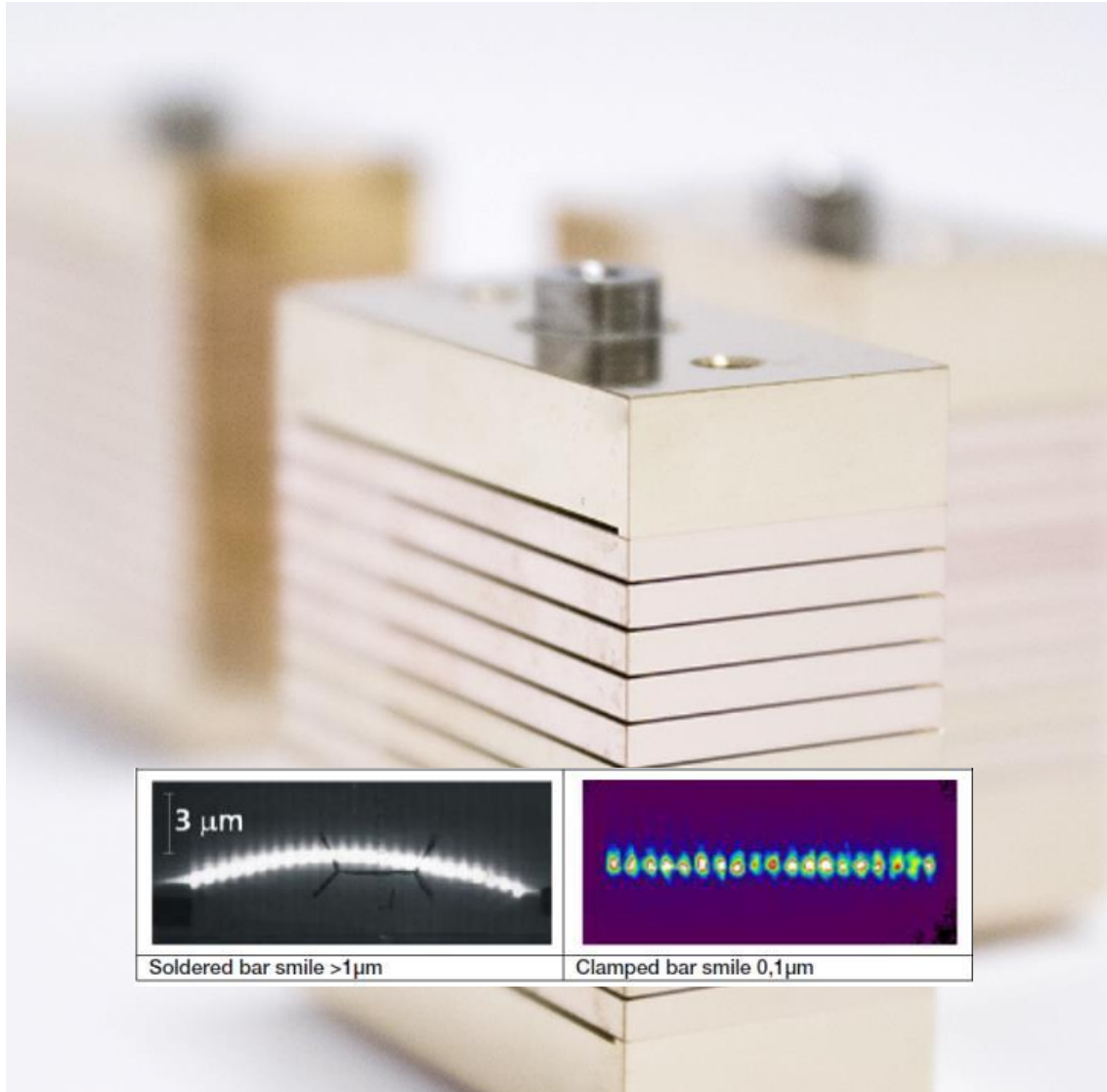
Mechanical park

Workshops

Chemical lab

Research & Development Lab

Solder-free laser bar mounting



CLAMPING™ Tech (Patent EP1341275B1)

While soldered bars present series of problems as thermal expansion mismatch, high temperature process, fatigue effect with consequent lifetime reduction, our CLAMPING™ Tech (Patent EP1341275B1) overcomes all these troubles thanks to the total elimination of the soldering process.

Advantages

- Mounting at room temperature
- Insensitive to CTE mismatch
- Having no “smile” ($< 0.1 \mu\text{m}$)
- Using real macro-channels ($0.9 \text{ mm} - 1.3 \text{ mm}$)
- Having no mechanical stress
- Cooling from both sides of the semiconductor
- Longer life-time of the diode (lower junction temp.)



Business units

Life-Science & Medical

Laser products for the scientific, medical and aesthetics markets.

Industrial

Laser technologies for the industrial manufacturing and sensing.

Defense & Aerospace

Laser technologies for security systems in aerospace and ground vehicles.

Laser technology for Medicine



- Dermatology and Aesthetics
- Soft tissue surgery
- Ophthalmology
- Cancer treatment
- Dental
- Spectroscopy

Laser technology for Medicine

After 25 years of experience in supplying lasers for the medical industry, our products are today recognized worldwide for their high reliability and performance.

True to the slogan "Crafting Ideas Into Light", we transform your project from a simple concept to a proven laser solution. The combination of own technologies and cutting-edge research in the medical field, ensure a successful product and the right solution for each application.

We don't build simple laser devices, we design smart solutions that burst the potential of medical applications. With our laser technology your medical devices are already to the next level of performance with more precision, more reliability and versatility.



Laser technology for Industrial



- Imaging
- Material processing
- Optical pumping
- Sensing for food industry

Laser technology for Industrial

. Our laser solutions optimize modern industrial processes increasing efficiency, improving precision, and enabling cost-reduction. Material processing in manufacturing, 3D printing and laser-assisted sensing are only a few examples.

From bare laser bar stacks to complete laser system with integrated electronics and optics, we are able to supply the level of integration that customers need. Our products can be found in 3D scanners, holographic projectors, offset printers, pointers, profilers, markers, laser cutting and welding equipment or laser-assisted roll-forming systems.

We offer a high degree of flexibility and versatility for your industrial applications.



Laser technology for Aerospace & Defense



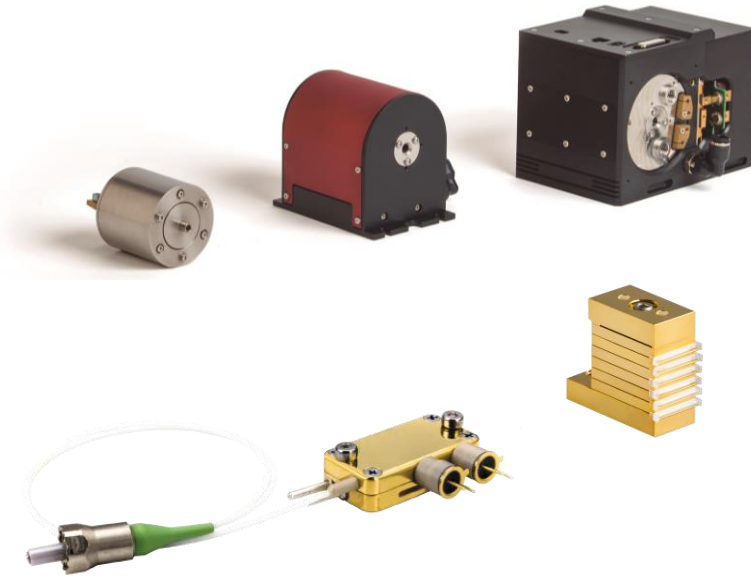
- Optical pumping
- LiDAR
- Laser dazzling
- Laser guidance
- Target designation
- Defensive countermeasures
- Underwater communications

Laser technology for Aerospace & Defense

We have a solid expertise and long trajectory in supplying lasers for the aerospace and military markets. Our commitment to innovation, quality and excellence, bring to fruition even the most challenging product developments: from a complex air target designation system to an extreme conditions resistant solid-state laser for space exploration.

Our laser sources for the aerospace and defense industries comply with strict regulations and requirements, such as the MIL-STD-810 military standard.

We use 100% solder-free laser bar stacks to build our laser systems, In this way we improve brightness and assure efficient cooling and long-term reliability. Our laser solutions are proven to show inherent advantages due to the implementation in our core components of these advanced, company owned technologies.



Thank you! Visit us at www.monocrom.com

