



High Power Semiconductor Lasers

Corporate Overview



Enabling Applications

Semiconductor lasers are transforming a broad range of applications with improved efficiency, higher reliability and lower cost solutions.

nLIGHT leads the industry with reliable, cost-effective solutions for Material Processing, Medical, Semiconductor, Defense, Solar, and Consumer applications.

Corporate Overview



Vision Lead the world in high-power semiconductor lasers

Capital Over \$90 million of invested capital

People Over 300 people in 5 facilities worldwide

Products Diode laser and fiber components
Integrated diode and fiber lasers

Markets Material Processing
Medical
Defense
Semiconductor
Solar
Consumer

Continuous Focus

Since 2000, nLIGHT has delivered on a vision to lead the world in high-power semiconductor lasers and has continued to expand capabilities to better serve our customers' needs.

Building Diode Laser Leadership

- 2000** nLIGHT founded and raises over \$50M in venture funding
- 2001** nLIGHT ships first products from state-of-the-art diode fab
- 2003** nLIGHT releases nXLT™ diode facet passivation and establishes leadership in reliability and power
- nLIGHT expands packaging with Shanghai, China operations
- 2005** nLIGHT releases worlds first 100W bar

Establishing Strength in Packaging

- 2006** nLIGHT acquires Flextronics Photonics to build excellence in packaging
- nLIGHT ships 10,000th 100W bar
- 2007** nLIGHT acquires Liekki™ in Lohja, Finland to strengthen capabilities through excellence in optical fiber production
- nLIGHT launches Pearl™ single-emitter based fiber-coupled modules delivering industry leading brightness and reliability

Enabling Integrated Lasers

- 2008** nLIGHT acquires OptoTools™ in Heilbronn, Germany to enable leadership in industrial systems
- nLIGHT ships >50W Pearl™ at 1470nm
- 2009** nLIGHT ships world's first pump with 100W into 100µm fiber

Differentiated Value

nLIGHT offers a flexible range of product, engineering and manufacturing options to help you achieve a sustainable advantage.

Breadth of Products

nLIGHT's broad range of products from diode laser and optical fiber components to turnkey laser systems allows for flexible solutions that maximize your competitive advantage.

Flexible Engineering & Manufacturing

Our highly collaborative and experienced engineering teams partner with you to understand your needs, share technical knowledge and develop tailored solutions that meet your precise requirements.

nLIGHT's vertical integration provides a broad and complete product line, ranging from components to laser systems.

Components

Industry leading technology in core components



Diodes

Modules

Tailored, high-performance modules



Fiber-coupled

Systems

Differentiated systems for easy integration and high-performance



Diode Laser



Fiber



Fiber-engines



Fiber Laser

Leading Platforms

nLIGHT's advancement of diode laser technologies continues to lead the industry and deliver a broad product portfolio.



Fiber Laser Systems

OptoTools™ FL Systems are the next generation of fiber lasers, delivering efficient, reliable and cost-effective solutions.

CW Fiber Lasers 10-500W
Pulsed Fiber Lasers - Green and IR



Diode Laser Systems

OptoTools™ DL modules and systems provide robust, integrated solutions that are optimized for efficiency and uptime.

Up to 600W CW output
Up to 30mm mrad beam quality



Fiber Coupled Modules

Pearl™ series sets the standard of excellence in high-performance fiber-coupled diode lasers. The single emitter architecture delivers world-class power, brightness, efficiency and reliability.

Broad wavelength range: 639-2000nm
>60% WPE for 100W, 200µm, 0.17NA



Diode Laser Devices

nLIGHT offers a wide array of standard and custom diode lasers from 639-2000nm.



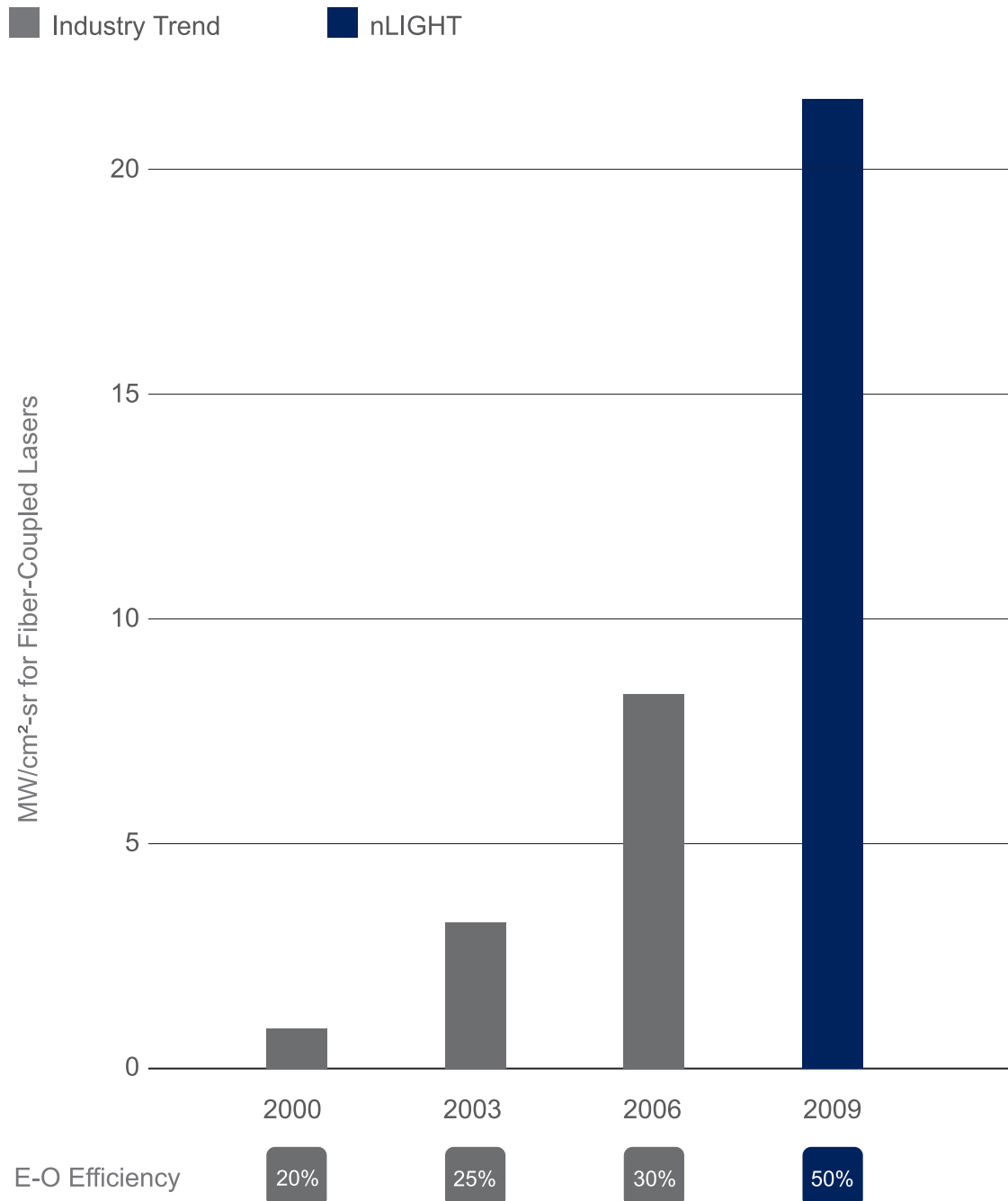
Optical Fibers

Liekki™ fiber offers the highest Er and Yb doped fiber in the industry with proprietary Direct Nano-particle Deposition (DND) technology that delivers high-efficiency and minimal photodarkening.

Semiconductor lasers have improved dramatically over the last decade - nLIGHT excels in key metrics.

Semiconductor Laser Brilliance and Efficiency

MW/cm²-sr for Fiber-Coupled Lasers



Operational Excellence

nLIGHT is committed to delivering world-class quality and reliability through state-of-the-art manufacturing and operational excellence.



ISO 9001:2000 Qualification

nLIGHT's worldwide manufacturing facilities are certified in accordance with the internationally valid standard ISO 9001:2000.



Six Sigma Process Improvement

nLIGHT delivers world-class quality and reliability. We consistently engage in ongoing process improvement practices to deliver superior quality and customer service.



8D Problem Solving Methodology

nLIGHT's leverages the principles of 8D problem-solving to focus team efforts and successfully achieve product and process improvement.

nLIGHT is a global organization focused on delivering quality and service excellence through our centers of competence in Europe, North America, and Asia.



1. Vancouver, WA USA
- Semiconductor laser fab facility
 - Corporate Headquarters



4. Lohja Finland
- Active and passive fiber



2. Hillsboro, OR USA
- High-precision packaging
 - ITAR facility



5. Shanghai China
- High-volume packaging
 - China Sales



3. Heilbronn Germany
- Industrial module integration

Contact our sales and application engineers to discuss how nLIGHT can improve your competitive advantage.

Diode Laser Specialists: diodes@nlight.net
Fiber Specialists: fibers@nlight.net
Defense Specialists: defense@nlight.net

Visit www.nlight.net to gain more detailed product and application information

Global Service

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Proven Performance



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