

Diode Laser Optics for Highest Brilliance

Series production | Single emitters, bars and stacks | Superior performance



Beam Shaping Excellence



Single emitters, bars and stacks: High-precision micro-optics for all diode laser types

When developing micro-optics for diode lasers, reliability and efficiency are the most important criteria. LIMO specializes in precision optics for all diode laser types (single emitters, bars and stacks) and all power classes. With our wafer-based production process, thousands of lenses can be manufactured from high-grade glass and crystals in a single step, with a consistently high level of quality.



Application areas

- Collimation
- Focusing
- Beam coupling
- Beam transformation

The LIMO concept: Beam shaping expertise from one provider

Thanks to LIMO's optics and beam shaping expertise, we provide everything you need from a single source. Based on the specific customer requirements, we develop smaller lenses or larger optics solutions. And we're here to support and guide our customers from the concept phase all the way to series production.

1. Concept:

Whether it's single emitters, bars or stacks, we work with our customers to create a tailor made optical concept for their individual application case.

2. Design:

Once a concept has been created, the LIMO engineers develop an application-specific optics design.

3. Prototype:

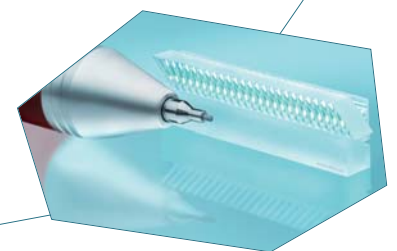
The first optics prototypes are produced, and testing is conducted in close collaboration with the customer.

4. Production:

Successfully tested prototypes then enter the cost-effective wafer-based series production phase.

5. Assembly:

In addition to optical components, LIMO also develops the matching mechanics for integrating the optomechanical sub-modules into the laser system.



Your benefits with LIMO

- Diode laser optics with superior precision and efficiency
- Volume production in any quantity desired
- 100% quality control for every single lens
- Functional optical and mechanical surfaces for a compact design
- Customer service and support, from the concept phase through series production



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