What are some manufacturers of diode laser heads



Overview

Explore 138 top manufacturers and suppliers of Diode Lasers in our comprehensive photonics buyers'' guide.

Key Takeaways

Leading diode laser head manufacturers include Opt Lasers, Laserline, FLC - Frankfurt Laser Company, and PlOON, serving industrial, medical, and research applications.

Industrial and CNC Laser Heads

Opt Lasers specializes in CNC-compatible laser heads for engraving, cutting, and digital fabrication. Their product range includes the PLH3D-XT8, XT-50, and XF+ laser heads, which are widely used for wood, plastics, metals, and acrylics. These heads feature rapid attachment systems, air assist nozzles, and high precision for detailed engraving and cutting tasks, making them suitable for small workshops and industrial prototyping.

Laserline provides customized diode laser solutions for industrial applications, including welding, cladding, and coatings. Their diode lasers are used in automotive, aerospace, heavy industry, and emerging sectors like electric motor and lithium-ion battery production. Laserline focuses on high-power, compact, and integrated diode laser systems tailored to specific manufacturing processes.



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High-

Performance Diode Laser ModulesFLC - Frankfurt Laser Company GmbH manufactures a wide range of diode lasers, including FP, DFB, and DBR laser diodes, VCSELs, and Quantum Cascade Lasers. Their products cover wavelengths from 213 nm to 20 µm and power outputs up to 5600 W.

FL

C offers free-space and fiber-coupled modules, superluminescent diodes, and OEM solutions, making them suitable for scientific research, materials processing, and specialized industrial applications. Medical Diode LasersPIOON is a global manufacturer of medical diode lasers, providing CE/FDA-certified systems for dental, surgical, ENT, vascular, and aesthetic applications. Their devices are designed for advanced clinical use, emphasizing safety, precision, and reliability in medical procedures.

Additional Suppliers

The Photonics Buyers' Guide lists over 130 diode laser manufacturers and suppliers, including Sheaumann Laser, KYOCERA SLD Laser, RPMC Lasers, and IPS. These companies offer semiconductor laser diodes, fiber-coupled modules, high-power assemblies, and custom OEM solutions for defense, space, medical, and industrial markets.

Summary

When selecting a diode laser head manufacturer, consider: Application type: industrial cutting, CNC engraving, medical procedures, or research. Power and wavelength requirements: from visible to mid-IR and high-power outputs.

Customization and OE

M support: for integration into existing systems. Regulatory compliance: CE/FDA certification for medical applications. These manufacturers provide a broad spectrum of diode laser heads and modules suitable for diverse applications, from precision engraving to high-power industrial processing and clinical use.

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Article Content

Diode Lasers | Suppliers | Photonics Buyers'' Guide | Photonics

Explore 138 top manufacturers and suppliers of Diode Lasers in our comprehensive photonics buyers'' guide. A diode laser is a type of laser that uses a semiconductor diode as the active medium to

Top 5 Laser Diode Manufacturers Companies in the World

Top laser diode companies include Coherent, Inc., IPG Photonics Corporation, OSRAM, TRUMPF, and Jenoptik AG, among others.

48 Laser Diode Manufacturers in 2026

48 Laser Diode Manufacturers in 2026 This section provides an overview for laser diodes as well as their applications and principles. Also, please take a look at the list of 48 laser diode manufacturers and

Laser Diode Manufacturers

A Laser Diode is a type of semiconductor device that produces coherent light through the process of stimulated emission. The leading manufacturers of Laser Diodes are listed below. Narrow down on

Laser Diode Market: Top 10 Companies & Key Players

Laser diode market leaders ranked: the top 10 companies powering telecom, healthcare, and defense innovation, with each player''s edge and focus areas.

Laser Diode Companies

List of the top Laser Diode companies based on extensive research conducted by Mordor Intelligence analysts and expert advisors that identified these brands to be the leaders and major players in the

Diode Lasers Manufacturers Suppliers | IQS Directory

Locate diode laser manufacturers offering affordable, proven lasers for a variety of industrial and productivity applications.

Lasers | Suppliers | Photonics Buyers'' Guide | Photonics Marketplace

FLC - Frankfurt Laser Company GmbH develops, produces, and distributes FP, DFB, and DBR laser diodes, laser diode arrays, VCSELs, and QCLs. Products include free-space, fiber-coupled, mid-IR,

Laser Diodes – Buyer''s Guide & Supplier List | RP Photonics

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This buyer''s guide for laser diodes provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

Diode Lasers (Diode Laser)

Diode lasers are so-called semiconductor lasers in which coherent light, i.e. all waves oscillate in the same direction, with the same frequency and phase, due to power-band-valence-band transitions

Top 10 Best Laser Cutting Head Manufacturers in the

This article takes an in-depth look at laser cutting heads and provides a comprehensive guide to the top 10 best laser cutting head manufacturers in the

Dermatologist''s Best Red-Light Therapy for Hair Growth

The best red-light therapy for hair growth, delivered via helmets or caps, can help stimulate hair follicles to promote natural new strands. Shop our

5 Best Laser Cutters & Engravers in July 2026

Having tested many of the best laser cutters and engravers, we created our recommendations for the best laser cutting machines in each price range, for each use, and more. I

Laser diode

Find your laser diode easily amongst the 84 products from the leading brands (OVIO INSTRUMENTS, Changchun New Industries, Omicron, ...) on DirectIndustry, the

9 Best Laser Cutting Head Manufacturers in the World

This list of top laser-cutting head manufacturers worldwide is based on estimated market share, product quality, customer service, and prices.

Laser Head for CNC| J Tech Photonics

Choosing the Right J Tech Laser Head: A Complete Guide to Our Lineup At J Tech Photonics, we offer a full range of blue diode laser heads designed to meet the

Laser Diode Companies

Laser Diode industry insights on factors that are driving the growth of the Laser Diode Market and key players along with their go to market strategies and new revenue sources.

Top 5 Laser Diode Manufacturers Companies in the World

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In the industrial sector, the products are used in material processing applications such as metal welding, laser brazing, hardening, cladding, and cutting metals. Furthermore, the adoption of

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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