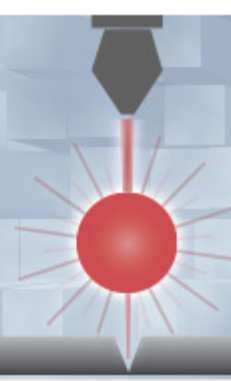


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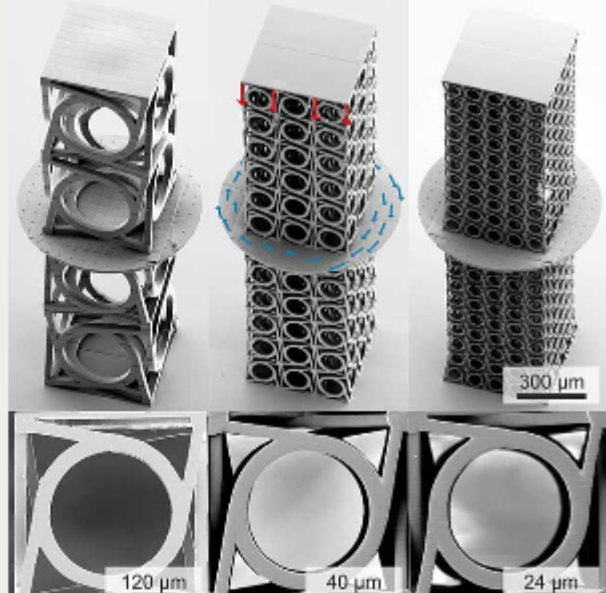


ONE SOURCE

Industrial Laser News

With Lasers, 3D Printing on a Miniature Scale

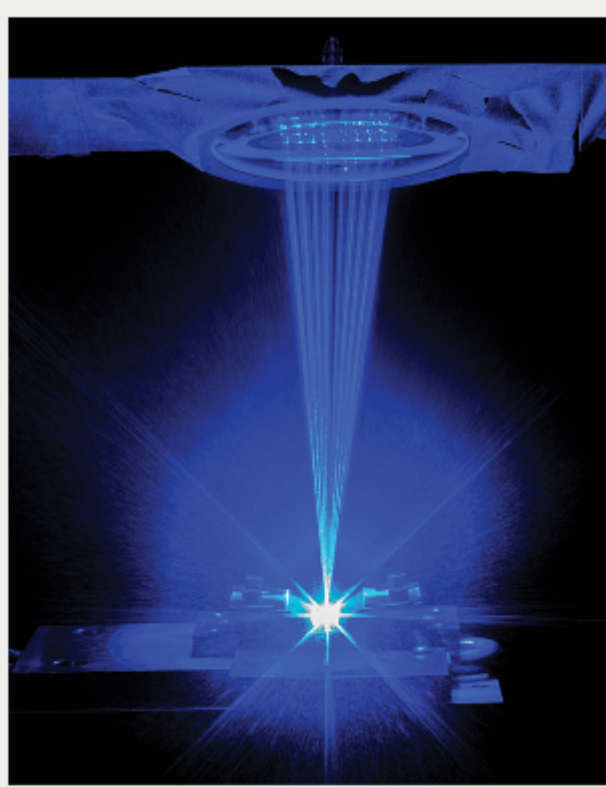
3D nanoprinting may soon merge into mainstream manufacturing thanks to increased throughput and refined lasers, optics, and materials. Compared to mask lithography and large-scale manufacturing methods, 3D nanoprinted components offer solutions that can be less expensive, better performing, quicker to create, and more compact.



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For Welding Certain Metals, Blue Lasers Offer the Advantage

Industrial lasers now dominate many materials processing applications, such as welding, cutting, and cladding in fields as diverse as consumer electronics, automotive manufacturing, and defense. A new generation of high-power lasers emitting at 450 nm leverages the fundamental physical advantages of blue light to provide enhanced performance in a number of industrial applications.



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Featured Products



High-Power Industrial Fiber Lasers

Coherent Inc.
Coherent HighLight FL series high-power fiber lasers deliver an unmatched combination of operational flexibility and reliability to yield superior results, including welding of both thin and thick metals with up to 80% spatter reduction, and minimal cracking and porosity.

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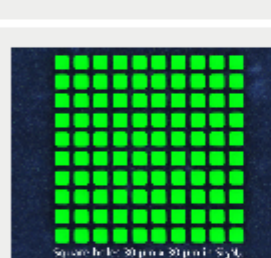


Laser Control for LMD & Cladding

New Infrared Technologies (NIT)

CLAMIR is the first commercial system based in high-speed infrared imaging that performs an accurate real-time control of the laser power during LMD DED metal printing and cladding processes to assure the quality of the part under production and increase the production throughput.

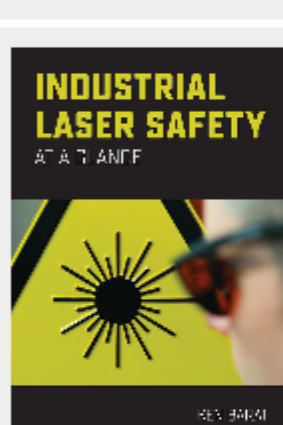
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New Machine Concept for Electronics Fabrication

SCANLAB GmbH
Posalux SA has introduced a newly designed machine for electronics fabrication that employs SCANLAB GmbH's highly integrated precSYS 5-axis scan sub-system. The Swiss manufacturer's laser processing system is specifically tailored to demands of micromachining.

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Industrial Laser Safety at a Glance

Photonics Media

A straightforward guide, offering clear, real world explanations of laser safety elements and the necessary background materials for the industrial laser environment. It raises awareness of the dangers of laser exposure, the proper tools needed to protect oneself from the potential hazards of industrial lasers, and the steps that must be taken to ensure a safe environment for all workers.

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Fiber Lasers Enable Advances in Product Technologies

Fiber lasers are a recognized powerhouse in the manufacturing sector of numerous industries because of the throughput, reliability, and low cost of operation they make possible for machines that cut, weld, mark, and micromachine materials.



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Ultrashort-Pulse Lasers Leave Their Mark

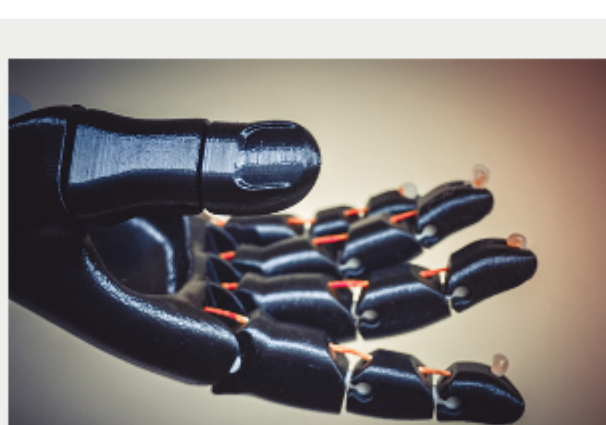
Increasingly, manufacturers are turning to ultrashort-pulse (USP) lasers in the NIR, visible, and UV for high-value marking of materials such as plastics used in automotive design or metal nanostructures in medical devices.



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Improving Additive Manufacturing with IR Cameras

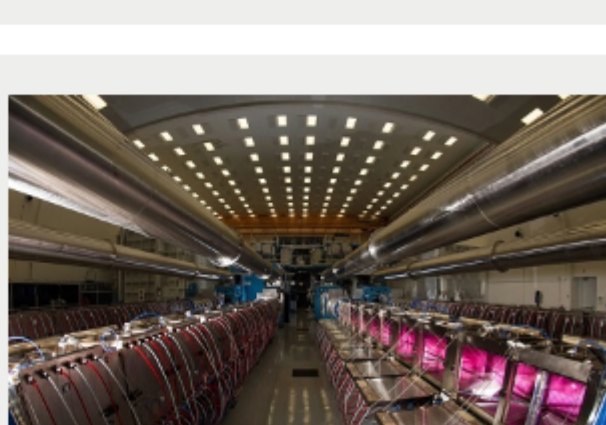
3D printing is revolutionizing manufacturing. By studying the printing process and its thermal properties with IR cameras, manufacturers have been able to make quick corrections with minimal production delays.



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New Laser Network Gives Scientists Access to High-Intensity, Ultrafast Lasers

Nine institutions across the country have joined a new U.S.-wide national research network called LaserNetUS. The nine facilities will provide U.S. scientists with improved access to high-intensity, ultrafast lasers.



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Webinars

SiPM and SPAD: Emerging Applications for Single-Photon Detection

Thu, Jan 17, 2019 2:00 PM - 3:00 PM EST

This webinar, presented by Hamamatsu Corp., will provide a thorough overview of silicon photomultipliers (SiPMs) and single-photon avalanche photodiodes (SPADs) for low-light level photodetection. Compared to photomultiplier tubes (PMTs), SiPMs and SPADs are smaller, more durable, and more energy efficient. They also offer better immunity to magnetic fields and ambient light than PMTs. By attending this webinar, you will gain a better understanding of SiPM and SPAD technology, so you can determine whether it is the right choice for you.

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