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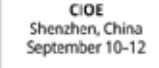

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# WILEY

Issues	1 January	Digital Issue 1 April	2 June	Digital Issue 2 August	3 September	4 November
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			with Company Profiles			
Trade shows	 <b>SPIE Photonics West</b> San Francisco, CA, USA January 25-30	Digital Issue	 <b>LASER PHOTONICS</b> Munich, Germany June 24-27	Digital Issue	 <b>CIOE</b> Shenzhen, China September 10-12	 <b>COMPHED</b> Duesseldorf, Germany TBA
	<b>PHOTOPTICS</b> Porto, Portugal February 22-24		<b>SPIE Optics + Photonics</b> San Diego, CA, USA August 03-07		<b>LASER World of PHOTONICS INDIA</b> Bangalore, India September 17-19	<b>formnext</b> Frankfurt, Germany November 18-21
	<b>Asia Photonics Expo (APE)</b> Marina Bay Sands, Singapore February 26-28				<b>EMO</b> Hanover, Germany September 22-27	<b>productronica</b> Munich, Germany November 18-21
	<b>LASER World of PHOTONICS CHINA</b> Shanghai, China March 11-13				<b>W3+ Fair</b> Jena, Germany September 24-25	<b>sps smart production solutions</b> Nuremberg, Germany November 25-27
	<b>W3+ Fair</b> Wetzlar, Germany March 26-27				<b>ECOC</b> Copenhagen, Denmark September 29 - October 01	
	<b>Sensor + Test</b> Nuremberg, Germany May 06-08				<b>Quantum Effects</b> Stuttgart, Germany October 07-08	
	<b>Control</b> Stuttgart, Germany May 06-09				<b>K2025</b> Duesseldorf, Germany October 08-15	
	<b>Rapid.Tech 3D</b> Ertfurt, Germany May 13-15				<b>SPIE-Photonex</b> Glasgow, UK October 20-23	
	<b>EPHJ</b> Genf, Switzerland June 03-06				<b>Schweisstec/Blechexpo</b> Stuttgart, Germany October 21-24	

### High Precision Laser Cutting of Electrical Steel

Improved mechanics and laser synchronization provide a unique combination of precision, high overall throughput, and guaranteed part repeatability.



**High precision laser cutting** is a critical process in the electrical steel manufacturing industry. As the demand for high-performance electrical steel increases, manufacturers are seeking solutions that offer higher precision, faster throughput, and improved part quality. This is where laser cutting technology comes in. Laser cutting offers several advantages over traditional mechanical cutting methods, including higher precision, faster cutting speeds, and the ability to cut complex shapes with ease. The high-precision laser cutting process involves using a high-power laser beam to cut through the electrical steel. The laser beam is focused on a very small spot, creating a high-temperature plasma that melts the material. The laser beam is then moved along the length of the material, creating a narrow kerf. The laser cutting process is highly repeatable and can be automated, making it ideal for high-volume production. The resulting parts are of high quality and can be used in a variety of applications, including power generation, transportation, and industrial machinery.

### Four-Color Laser Engine for Efficient Confocal Microscopy

Direct modulation at 561 nm using FODL technology enables unique performance.



The four-color laser engine is a key component of the confocal microscope. It consists of four laser diodes that are modulated at different frequencies. This allows the microscope to excite different fluorescent dyes simultaneously, enabling the acquisition of multiple channels of data in a single shot. The FODL technology used in the laser engine allows for direct modulation of the laser diodes at 561 nm, which is a common excitation wavelength for many fluorescent dyes. This results in higher efficiency and better performance compared to traditional external modulators. The four-color laser engine is a compact and reliable solution for confocal microscopy, providing high-contrast images and fast data acquisition. It is suitable for a wide range of applications, including biological research, materials science, and industrial inspection.

### Fiber Optic Components

Optical components for fiber optic systems.



Fiber optic components are essential for the operation of fiber optic communication systems. They include devices such as couplers, splitters, filters, and isolators. These components are used to route, filter, and manage the optical signals transmitted through the fiber optic cables. The components are designed to be highly reliable and have low insertion loss. They are used in a wide range of applications, including telecommunications, data centers, and industrial automation. The components are available in various sizes and configurations to meet the needs of different applications. They are also designed to be easy to install and maintain. The fiber optic components market is growing rapidly due to the increasing demand for high-speed, high-capacity communication systems.

## Technical Article


"Full Paper" including company information box, author biographies, and contact addresses. Text 10,000 to 16,000 characters, 4 – 6 figures including one opening graphic or photography (300 dpi, or vector format)

## Application Report

Addressing the use of a device / technology with a customer / partner. Text: 6,000 to 10,000 characters, 2 – 4 figures including one opening graphic or photography (300 dpi, or vector format)

## Product Report

Addressing a new device / technology with technical details / application example(s). Text 2,000 to 5,000 characters, 2 – 3 figures including one large format opening photography (300 dpi, or vector format)



### Edmund Optics Features New Products

Edmund Optics has introduced a new line of high-precision optical components, including lenses, mirrors, and filters. These components are designed for use in a wide range of applications, including scientific research, industrial inspection, and medical diagnostics. The new products offer improved performance and reliability compared to traditional components. They are available in a variety of sizes and configurations to meet the needs of different applications. Edmund Optics is committed to providing high-quality optical components and excellent customer service. For more information, please contact us at [www.edmundoptics.com](http://www.edmundoptics.com).