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## Press Release

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## Semiconductor wafer-thin technology, now a reality with lasers

**LASER World of PHOTONICS INDIA** is coming up with its 3rd edition from 23-25 September 2014 in Bangalore International Exhibition Center (BIEC), Bengaluru. It is an important gateway for the growth and use of lasers and optoelectronics in the electronics industry in India.

The laser is the perfect answer to the ever-shrinking structural size and high integration densities, which characterize today's semiconductor industry. The tools that enable processing of semiconductor materials and dielectrics have to develop this technology. High-precision lasers work without contact and can be used for drilling, cutting and the ablation of thin layers. The semiconductor industry lives - and dies - by a simple creed: smaller, faster and cheaper. The benefit of being tiny is quite simple: finer lines mean more transistors can be packed onto the same chip. The more transistors on a chip, the faster it can do its work.

The rapid growth of consumer electronics in India and the growing demand for smartphones and tablets are the key growth drivers of the overall electronics market. As per research conducted by the Government of India, the domestic Electronic System Design and Manufacturing (ESDM) market is expected to grow at a compounded annual growth rate (CAGR) of 9.9 per cent and reach INR 5.6 Lakh Crore in 2015. The government also estimates the demand for electronics to increase to INR 24 Lakh Crore by 2020.

While the demand for electronic goods is rapidly increasing, there is a huge gap in terms of manufacturing. India needs a solid plan of action to bridge the gap. The first step towards addressing this issue has been the approval by the Cabinet to invest INR. 51,550 Crore towards two semiconductor units. With a certain mandate of development in the semiconductor industry, innovation in production cannot be far. The importance of precision and cost reduction is and will be the driving force behind this industry.

The manufacturing of semiconductors requires rapid and clean cutting of composite materials. Lasers fit this role perfectly. Their ability to cut irregular shapes to high precision, whilst minimizing surface roughness, makes them ideal cutting tools.



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The laser marking of silicon wafers facilitates traceability of the manufacturing process for fault analysis of semi-conductor devices. A laser system designed for wafer marking must meet the most stringent requirements. Thus, the marking must be machine-readable, miniaturized and have no negative influence on the further manufacturing steps and still permit clear identification at the end of the process chain.

**Mr. Bhupinder Singh – Acting CEO and CMO of MMI India Pvt. Ltd** says, “In the manufacturing of semiconductor chips marking speeds of over 1000 characters/second and material penetration depths of less than 25µm/1 mile are common. It is only the precision and speed of laser that can make the process simpler and faster and thus cheaper. LASER World of PHOTONICS INDIA 2014, will take place in Bangalore, and will showcase Laser technologies catering to the semiconductor industry. The event will prove to be an interactive platform for professionals in the semiconductor industry”.

**Mr.Lalit Kumar, Managing Director of Laser Science** says, “LASER World of PHOTONICS INDIA 2014 is a platform for us to showcase the various laser sources and accessories that we deal in, for both scientific and industrial applications. We consider LASER World of PHOTONICS INDIA as a very important event for our business growth and image building. With the laser market in India growing at a rapid pace, LWPI provides us with an excellent opportunity to strengthen our relations with end customers, system integrators and exhibitors. We believe that the concurrent shows on interdisciplinary subjects will also prove to be beneficial in finding new prospects”

LASER World of PHOTONICS INDIA 2014 will feature companies that will showcase precision manufacturing across sectors. Laser Science has been representing Coherent Inc. in India since the past 25 years. Coherent is the world's leading manufacturer of different types of laser equipment such as Excimer Lasers, Diode Pumped Solid-state Lasers (DPSSL), Avia, Matrix & Dayatona and many more.

This year the trade fair is co-located with electronica India and productronica India that adds value to the visitors of all the trade fairs due to their attractive synergies. It gives them the opportunity to gain insights into the latest technologies and applications in the electronics sector.



### **About LASER World of PHOTONICS & LASER World of PHOTONICS INDIA**

The LASER World of PHOTONICS trade fairs and their congresses are the most important marketplaces and think tanks of the global laser and photonics industry and its users. They combine research and application and promote the use and ongoing development of optical technologies.

Messe München International has staged LASER World of PHOTONICS every two years since 1973. The World of Photonics Congress takes place in parallel, the largest Photonics Congress in Europe with the active involvement of the world's leading organisations.

LASER World of PHOTONICS INDIA revolves around innovative products as well as their industrial solutions and applications, which reflects actual developments in the industry around the world. LASER World of PHOTONICS INDIA intends to boost growth of the Indian laser industry by focusing on the industry's leading technologies. It offers opportunities to exhibitors and visitors alike.

### **About MMI India**

As part of its international strategy, Messe München founded its own affiliated company in India with a registered office in Mumbai, in September 2007. MMI India Pvt. Ltd. has been founded to provide Messe München with timely and competent organisational support for its increasing involvement in India.

With 10 subsidiaries in Europe and in Asia - and over 60 foreign representatives covering more than 100 countries, MMI has a network that spans the globe.

### **Messe München International**

Messe München International is one of the world's leading trade show companies. In Munich alone it organizes around 40 trade shows for capital and consumer goods, and key high tech industries. Each year more than 30,000 exhibitors and around two million visitors take part in the events held at the Messe München exhibition center, the ICM – International Congress Center München, and in the MOC Veranstaltungszentrum München. The leading international trade fairs of Messe München International are all independently audited. In addition, Messe München International organizes trade shows in China, India, Turkey and South Africa. With a combination of affiliates abroad – in Europe, Asia and in Africa – and over 60 foreign representatives actively serving over 100 countries, Messe München International has a worldwide business network. The Group also takes a pioneering role as regards sustainability: It is the first trade-fair company to be awarded energy-efficiency certification from the technical inspection authorities TÜV SÜD.

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