



## Quarter 3 - 2010

Dear Reader,

Business in the cutting and structuring laser segment developed quite pleasantly over the past few months. The first quarter of this year was economically the most successful in the history of LPKF Laser & Electronics. In light of this business development LPKF AG has significantly increased its forecast for the fiscal entire year of 2010.

The demand for laser direct structuring systems has been a key contributor in this positive earnings situation. The market share of the LPKF LDS method is growing. Discussions with our customers show this system can yield lucrative earnings and good long-term profits. And the laser system LPKF Fusion3D was honored with the Hermes Award at this year's Hannover Messe for its outstanding technical innovation.

Other topics in this issue: introducing the Pôle Européen Plasturgie (PEP), the French center of technological excellence for plastics molding, with which LPKF will be working closely in the future.

Beside a review of the SMT in Nuremberg and the technology forum "Plastics in mechatronics" we also want to alert you to the upcoming MID Congress (both in Fuerth).

Best regards,  
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### Award: LPKF Received the HERMES Award 2010



LPKF Laser & Electronics AG has been honored with this year's Hermes Award. The award was issued for the new laser system LPKF Fusion3D. Using the patented LPKF LDS method the LPKF Fusion3D simultaneously structures three-dimensional molded interconnect devices (MIDs) from multiple sides with up to four laser heads. This eliminates the need to rotate the component, increasing the processing speed, with increased accuracy, by a five-fold.

The basis for being nominated for the Hermes Award 2010 was the combination of LDS method and its implementation all the way to maturity for series production in form of the LPKF Fusion3D. The prize was presented by Dr. Annette Schavan, Federal Minister of Education and Research, during the opening ceremonies of the Hannover Messe. The award includes prize money of 100,000 Euro, making it one of the highest remunerated technology prizes worldwide.

## International MID Congress



The Research Association Molded Interconnect Devices 3-D MID e. V. will focus its topics on products, manufacturing processes, manufacturing technologies and introduction strategies at the 9th MID Congress in Fuerth. This year the internationally accepted MID forum will be held on September 29th and 30th at the Fuerth Congress Center.

As usual, the event will provide MID manufacturers, research institutes and users with an opportunity for intense exchange of knowledge and experience. The research association 3-D MID e.V. will allude to its latest research projects at this event. An extensive industry exhibit is planned in the exhibit area to complement the congress. Ellen McMillan, Director at the leading LDS manufacturer Molex, will present her principles on MID.

## Technology Convention: Plastics in Mechatronics



The VDI Wissensforum held a two day seminar on "Plastics in mechatronics" on June 8th and 9th. During this technology convention new methods for the integration of mechatronics functions in thermoplastic components were introduced. Experts from the field and research discussed the perspectives of new composite materials and manufacturing technologies. The event ended with a 45 minute presentation by LPKF Laser & Electronics AG. Nils Heininger spoke on „Laser-based manufacturing of multi-functional packages using the example of innovative micro speed sensors“.

## La Plastronique: LPKF Gets Involved in France



The Pôle Européen de Plasturgie (PEP) and LPKF Laser & Electronics have agreed on a future close cooperation. The PEP is a centre of technological excellence, focusing on research and development in the plastics industry molding on behalf of several French companies. The PEP supports companies in the industry in the research and implementation of new products.

The institut located in France's Ain-Département is connected to businesses such as Sagem, EADS, Radiall as well as manufacturers and suppliers in the automotive industry. On a European level PEP has been researching in the actual implementation of new MID applications in line with the MIDASS (MID Applied to Smart Systems) project since 2008.

LPKF will provide technological support for the PEP in line with this cooperation. This will primarily be through technological consulting for implementing the LDS method.

LPKF, PEP is an important technology partner in the consolidation of the French market. In France, where the fitting coined word *plastronique* was introduced for joining mechanical and electronic elements in place of mechatronics, utilizing laser direct structuring in the production of mechatronics assemblies is currently still uncommon. By September PEP will have pictures of the entire in-house LDS process chain.

## LPKF Introduces New Laser System for Laser Plastic Welding



LPKF appeared at the LASYS in Stuttgart, the international trade fair for system solutions in laser material processing, optimized laser system for plastics welding in tow. The new production system LQ-Vario RT features a rotary table with dual component intake, allowing for a significant reduction in cycle times. This extends the existing process features like hygiene, optical quality of the weld seam and process stability by a bonus lower product cost. The system presented by LPKF Laser Welding Division is optimized for small and medium series. Its weld path monitoring and an optional pyrometer control also satisfy high tracking & tracing standards. For additional information on laser welding please visit:

<http://www.lpkfusa.com/lq>