



# RoodMicrotec Newsletter

Number 3, August 2013 • RoodMicrotec

## Market recovery continues

In the press release of 9 July on the trading figures for the first half year of 2013, we stated that we anticipated a market recovery as well as increasing sales for RoodMicrotec in the second half of 2013.

Now, over a month later, we are indeed seeing a clear recovery in the market, and we are hearing the same from other market parties. Within RoodMicrotec we

are working on a number of key projects with a focus on extended Supply Chain Management and outsourcing of work by some major companies.

We hope this will come to fruition in the near future. I feel confident about the next few months.

## Agenda 2013



24 - 26 September 2013 Bregenz / Austria Festspielhaus LED Lighting Technology  
You will find us at booth A12

Thursday 26 at 9.00 a.m. Uwe Thiemann from RoodMicrotec gives a lecture about Failure Mechanisms and Risks on LED and LED systems



2 - 3 October 2013 Bath / UK Electronic Design  
You will find us at booth M35 hall 2



5 - 7 November 2013 Frankfurt Aerospace Supply Fair

# RoodMicrotec reaffirms its position as A-supplier in the automotive sector

In May, RoodMicrotec was audited by a key European customer in the automotive semiconductor market. The audit was part of the customer's regular supplier quality management system according to Automobile Standard VDA 6.3.

The results of the audit confirmed that all operations in the operational process fully meet customer and system requirements and resulted in RoodMicrotec's re-certification as an A-supplier in the automotive field.

In the automotive supply chain, supplier audits are one of the most important measures to verify and ensure continued high standards, also at outsourced production sites of the automotive industry.

VDA 6.3 requirements encompass the complete organisation of a company, from the personnel involved in the processes, the installed quality management system and its practical implementation all the way up to the processes involved, so that the supplier's ability to provide quality is also verified.

Special attention is given to the 'living system', which refers to activities relating to continuous improvement and process efficiency in order to realise zero defect attitude.

The Failure Analysis and Optoelectronic laboratories received the accreditation to ISO 17025 after the surveillance audit in May by the German accreditation body DAKKS (Deutsche Akkreditierungsstelle).

This means all laboratories of RoodMicrotec Failure Analysis, Optoelectronic and Qualification Lab are accredited to ISO 17025.

These results reaffirm RoodMicrotec's reliability as automotive supply chain partner.

Certified by RoodMicrotec



# RoodMicrotec sets up Failure Analysis Pool

RoodMicrotec offers customers access to its engineers and consulting services and equipment at a fixed annual payment. By 'subscribing' to this service, customers are assured rapid access at any time to RoodMicrotec's expert team and generally get priority service. Customers can expect a quick response, fewer interfaces, direct contact with technical experts and full traceability through use of online analysis status tracking. Additionally, the service reduces administrative work for both sides, thus increasing efficiency.

The offered service contains failure analysis on active and passive components, printed circuit boards and assemblies, optoelectronic components, LEDs, destructive physical analysis (DPA), chip modification (FIB), ESD evaluation and identification of counterfeit parts.

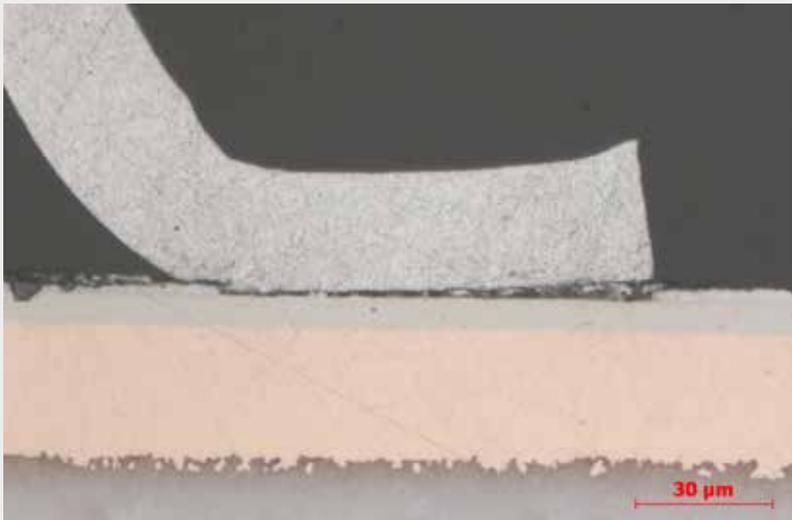
With this service RoodMicrotec expects to generate a stable and predictable income stream. Both sides benefit.

For an annual fee of € 20,000 you get the following package:

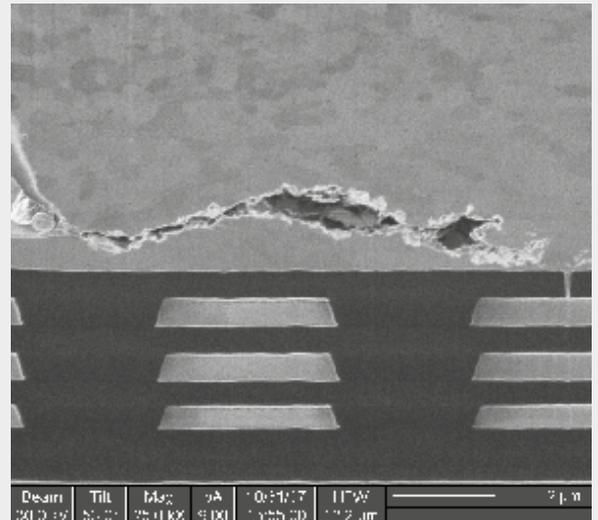
- 80 hours of engineering and consulting service
- unlimited use of standard equipment, such as optical microscopes, etch equipment, curve tracer and bond pull tester
- 10 hours use of advanced equipment including operator, like X-ray microscope, scanning acoustic microscope or scanning electron microscope

- 5 hours use of highly advanced equipment including operators, such as OBIRCH, emission microscopy, focused ion beam, EBIC, nanoprobe, AFM, TEM or CT
- Two free tickets to the annual RoodMicrotec seminar.

The Failure Analysis Pool is a premium service offering higher priority & fewer interfaces.



Failure analysis of a LED, lift off of bondwire



Focused Ion Beam (FIB) cut in frame of an IC failure analysis, damage caused by an ESDFOS (electrostatic discharge from outside to surface)

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