

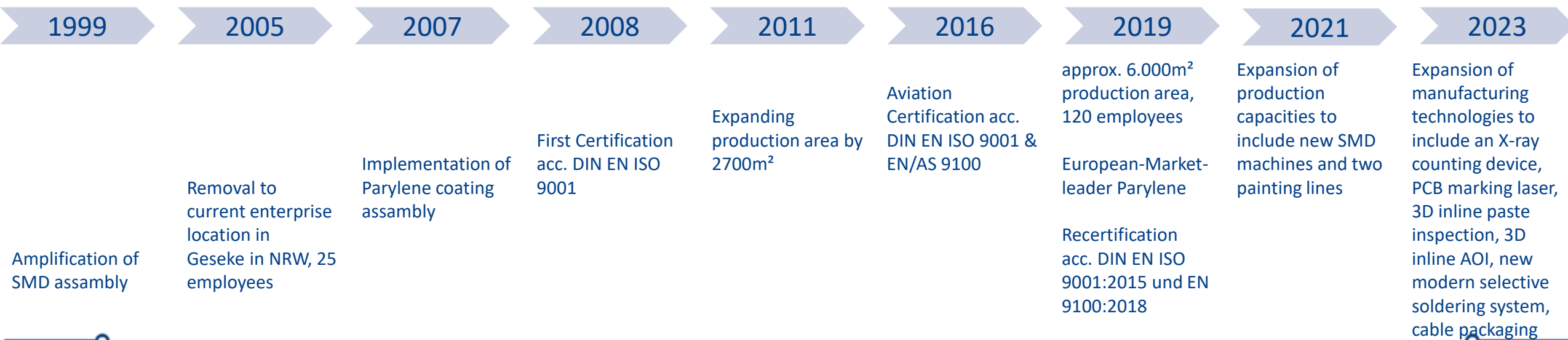


# Company Presentation

Heicks Industrietechnik GmbH

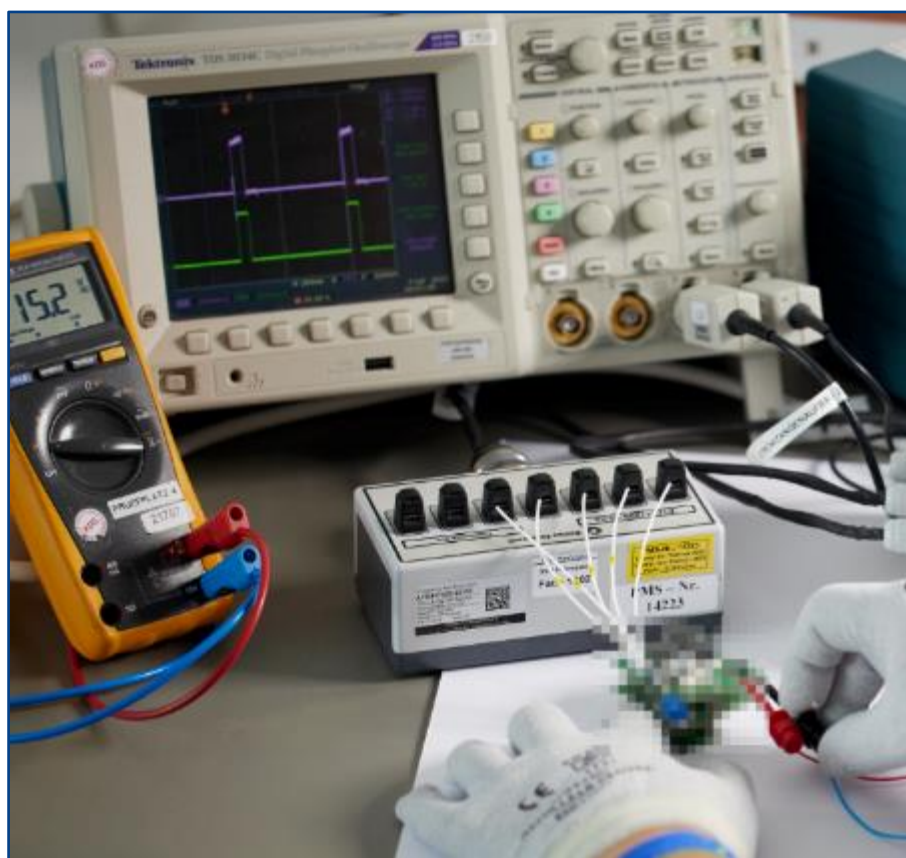


- Heicks Industrieelektronik GmbH, founded in 1986, is a medium-sized, owner-managed company with approx. 160 qualified employees.
- On more than 6000 m<sup>2</sup> production area we offer competent full service for high quality electronic components and assemblies.



- Circuit unbundling and layout
- Complete material procurement
- SMD & THT assembly
- Manually soldering
- Mechanically soldering of assembly groups
  - Wave soldering
  - Selective soldering / nitrogen atmosphere
  - SMT-soldering / nitrogen atmosphere
- Fitting of assemblies to complete devices





- Testing of electronic assemblies or of the complete devices with 3D AOI System, ICT, FKT or High-End-Flying-Probe
- Coating and Potting of assemblies
- **Parylene** coating of assemblies
- Setup of test devices and test systems
- Cable packaging
- Construction of harnesses for test devices
- Partial removal of gold surface / solder resist



## X-ray counter XRHCount

Using X-ray technology and the latest image processing, components on SMD rolls are counted within approx. 10 seconds and transferred to the ERP system after confirmation from the operator.

Source: VisiConsult X-ray Systems & Solutions GmbH



## PCB marking laser INSIGNUM 4000 with CO<sup>2</sup> laser

Integrated turning station enables labeling on both sides within the system

- Smallest module sizes  $\geq 0.127 \text{ mm} \geq 5 \text{ mil}$
- Highest accuracies
- incl. inlet belts and outlet belts

Source: ASYS Automatisierungssysteme GmbH





JUKI KE 2080 L



JUKI FX-3 L



Reflow  
soldering  
system  
SMT Quattro  
Peak® L N<sub>2</sub>



**Reflow soldering system**

VXP + nitro 3500 (type 734)

Quelle: [www.rehm-group.com](http://www.rehm-group.com)



**Inline-3D-AOI  
SAKI 3Di-LS2**

**18um**

processing and final  
inspection /  
measurement during  
the placement  
process

Source: Selecs GmbH



**RS-1 TS (RS-1)**



**RS-1 TSC**

(RS-1 with camera-system VCS I)

**3D-Inline-SPI SAKI 3Si-LS2**

evaluates/inspects solder paste deposit  
quality on PCBs

Source: Selecs GmbH



- **High speed of up to 42,000 bp/h**
- **High flexibility**
  - Component height 25 mm
  - Component size 0201 (metric) ~ 74 mm/50x150mm
  - Placement accuracy ± 0,035 mm (Cpk ≥ 1)

Source: [www.juki-smc.com](http://www.juki-smc.com)



**Selective soldering system – leaded AND lead-free**  
ERSA Ecoslect 350

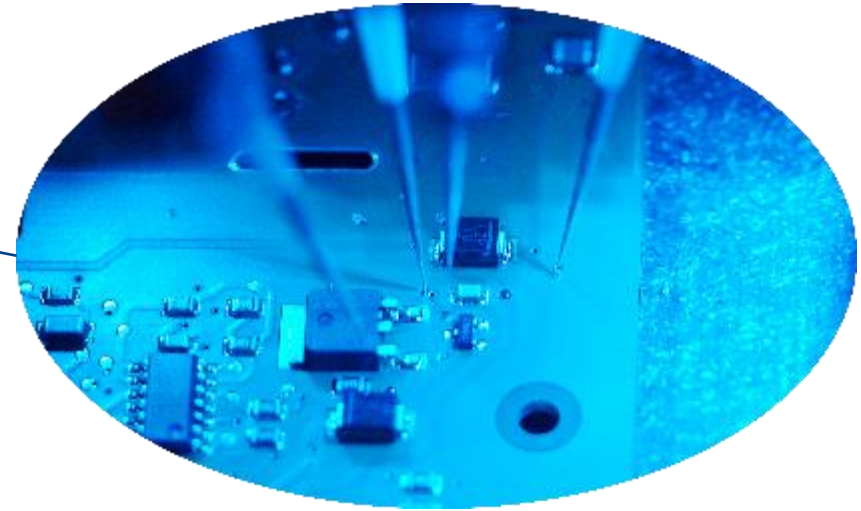


**new modern Selective soldering system**  
ERSA Versaflow 455

- Latest generation of machines
- Parallel process by separating fluxes, preheating and soldering



**Wave soldering system – leaded AND lead-free**  
ERSA POWERFLOW e N<sub>2</sub>



ICT-Tester



High-End-Flying-Probe



FKT-Tester





**Wire Stripper Komax Mira 230 Q and 340 Q**



**Komax automatic cut and insulation machine Kappa 320**

Cable assembly for small and medium batch sizes (quantity 1 to max. 1500 cables per batch)

Processing of a wide variety of paints from the manufacturers  
Peters Lacke, Humiseal and Henkel is possible



## Painting shop ProtectoXC2020

Rehm Thermal Systems GmbH incl. inlet belt  
and outlet belt

Source: Rehm Thermal Systems GmbH



## 4 paint shop's Elite Coating DR-070

DIMA Group BV – Elite Coater incl. Inlet belts and outlet belts

Source: epp.industrie.de





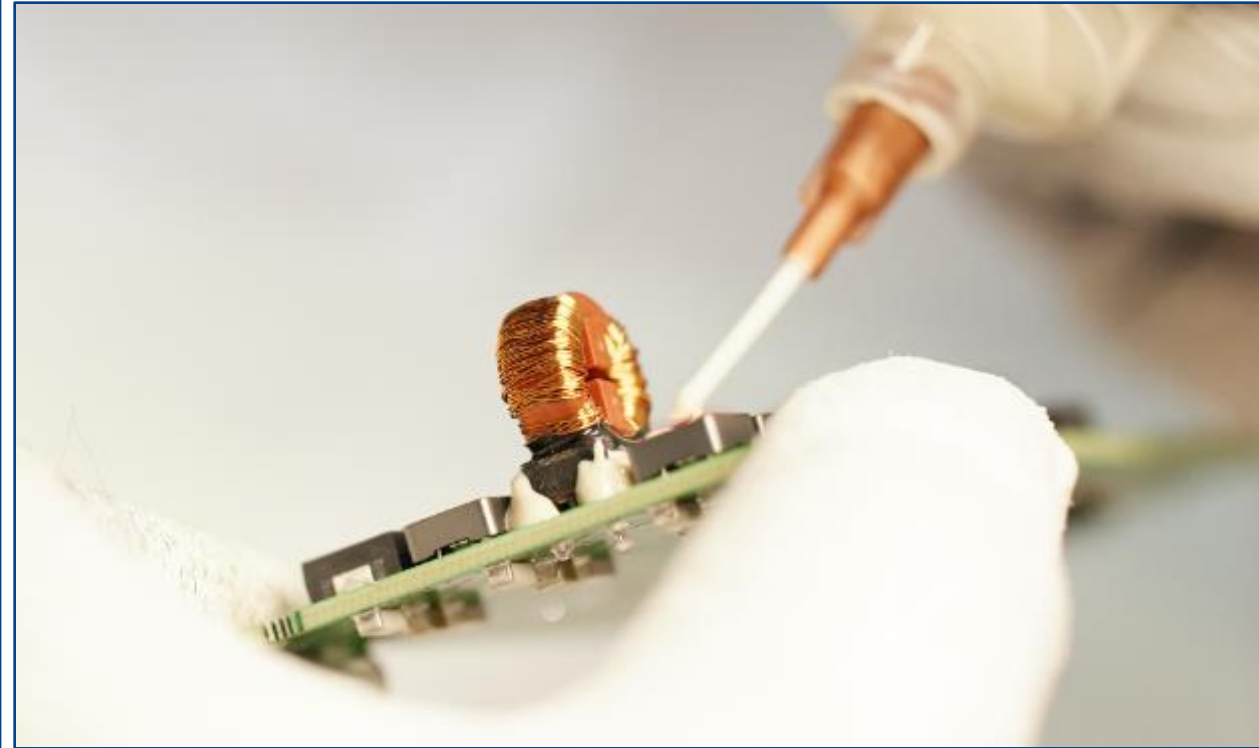
## UV-curing oven Spectro UV-500

- modular system
- constant UV-emission
- low heat development
- wide UV-range
- bezel at the input and output to prevent interference from UV light on the circuit boards

Source: DIMA SMT Systems



**manual painting**  
with a wide variety of paints from the  
manufacturers Peters Lacke,  
Humiseal and Henkel



**manual component casting**  
with silicones, adhesives, etc.





## stand-alone depanelling system **SAR-1300 Mono-Smart**

- maximum milling accuracy by high-precision linear motor axes and the modern control technology
- panel feeding possible with one or two shuttle axes
- shortest cycle times by high-speed linear motor axes and minimal dead times

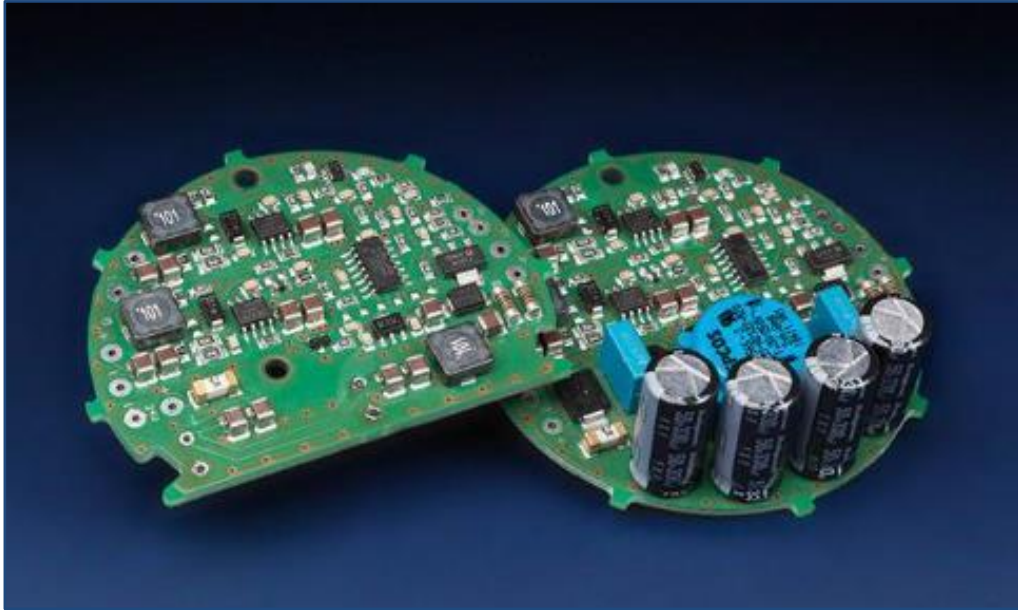
Source: SCHUNK GmbH & Co. KG

## High-End Hybrid-Rework Station

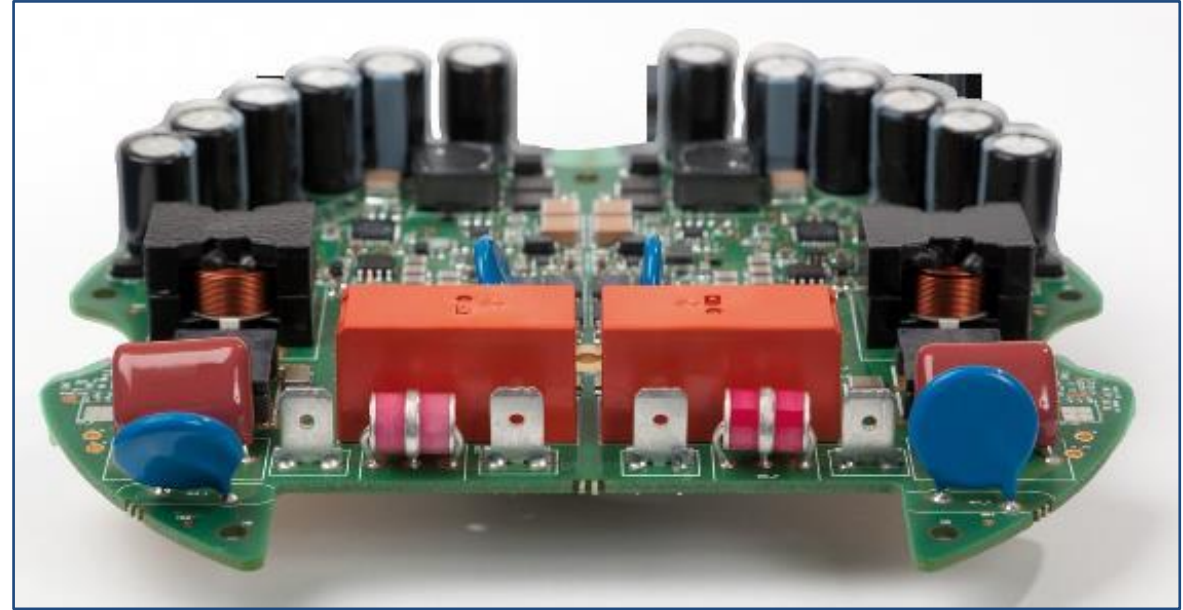
### Ersa HR 600/2

- Process-reliable, automated soldering and desoldering processes
- Automated component placement
- Hybrid heating head with two heating zones for effective thermal transfer
- extensive, high-performance IR bottom heating in three zones





LED control electronics  
development and production



Power supply for aerospace equipment





### **Dopplersimulator MDS 24**

for electronic calibration and functional testing of the angular measurement capability of vehicle radars with 24GHz frequency



### **Dopplersimulator MDS 77**

for electronic calibration and functional testing of the angular measurement capability of vehicle radars with 77GHz frequency

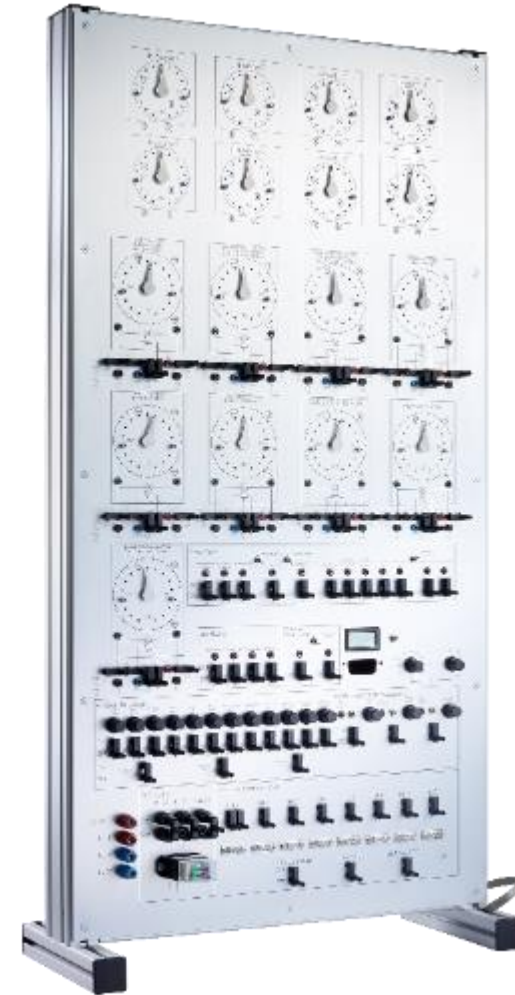




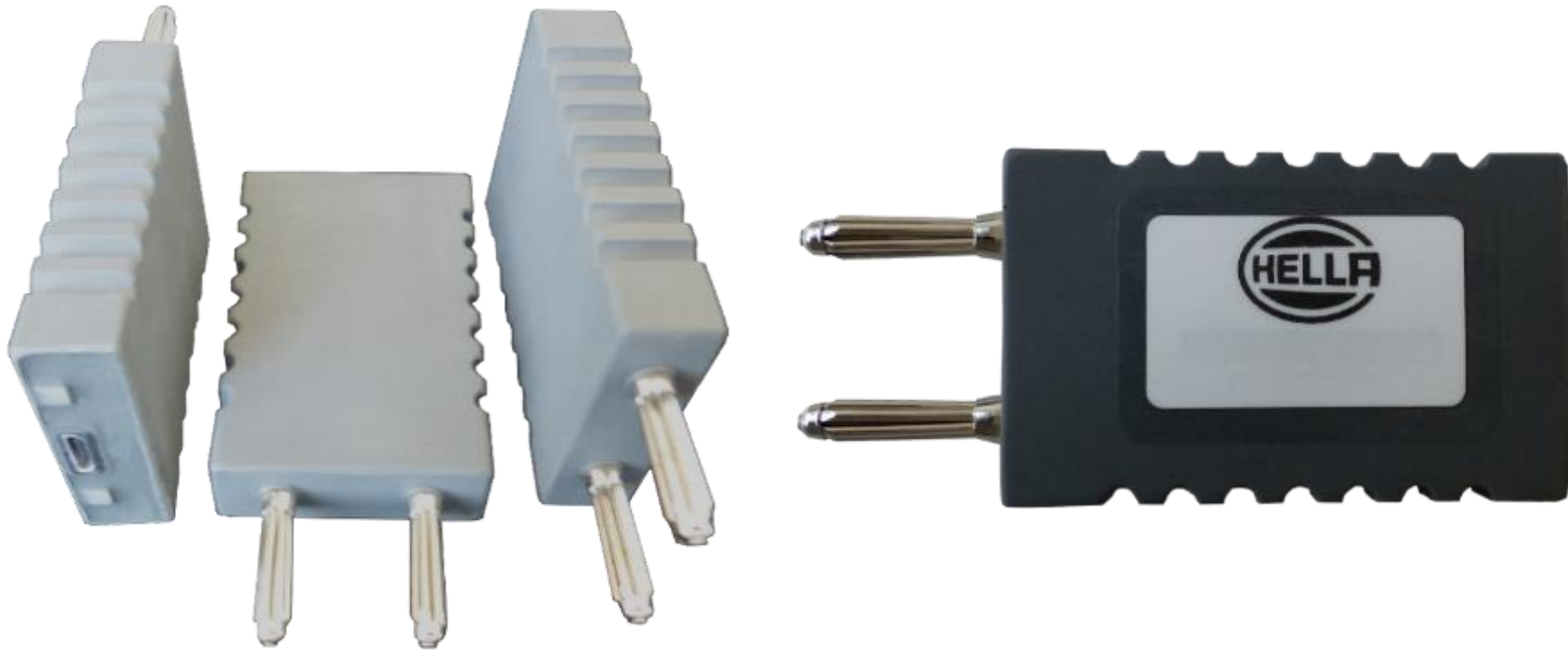
Boeing 787 Flight Deck lighting control unit



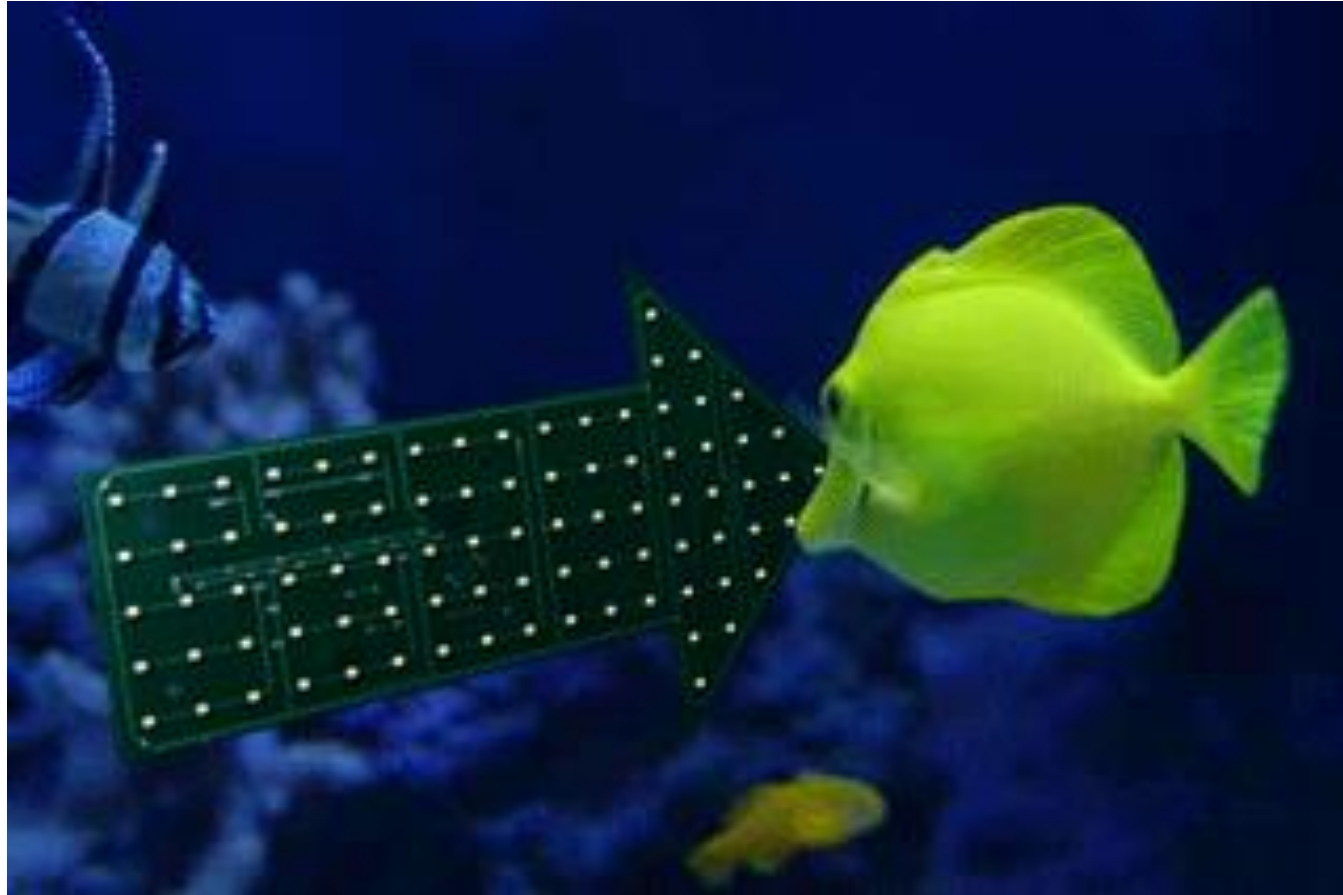
Wiring harness for testing purposes  
in the automotive industry



Test device for automotive industry

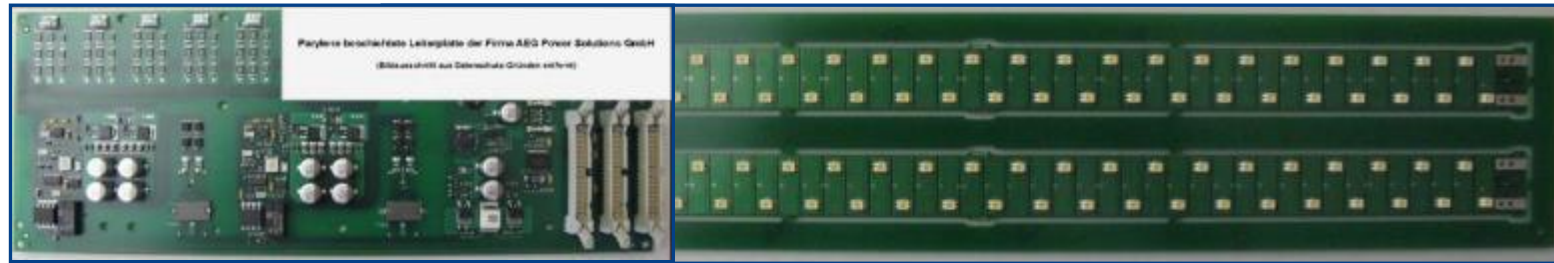


Cast assembly for the automotive sector

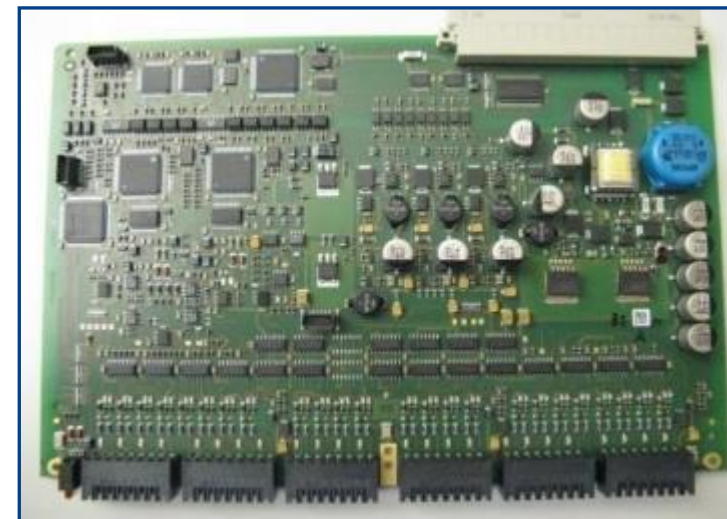


Assembly group coated with parylene





HIMA Paul Hildebrandt GmbH + Co KG

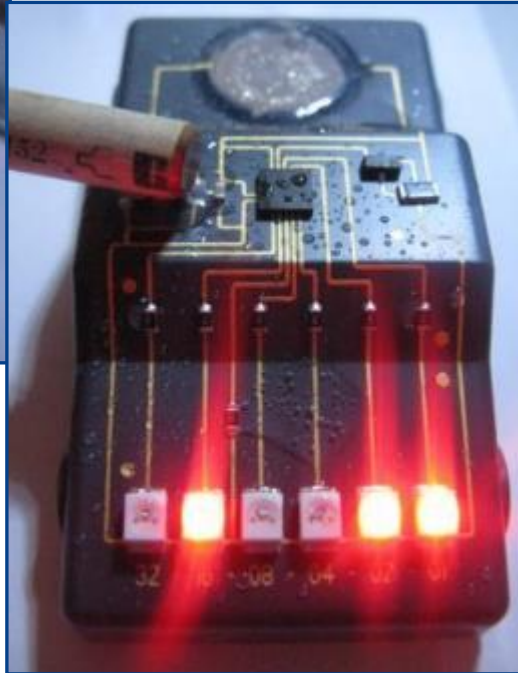
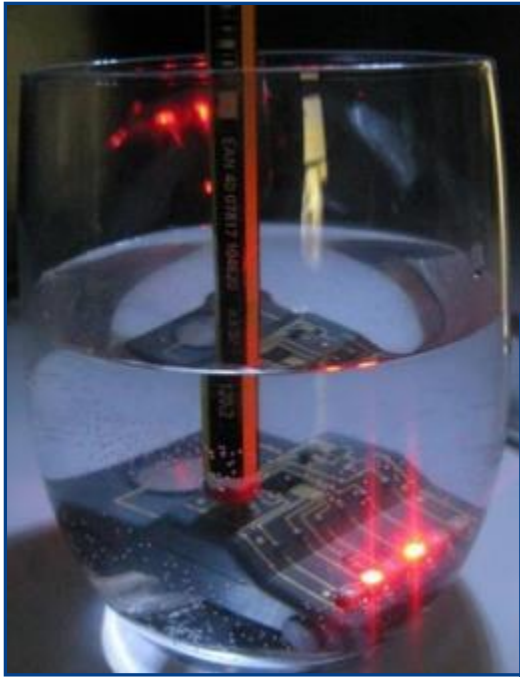


HIMA Paul Hildebrandt GmbH + Co KG

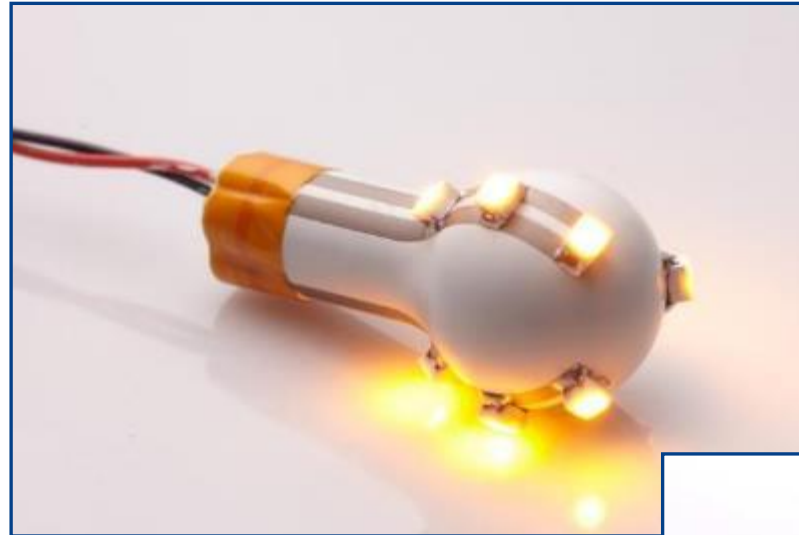
PCBA



Electronic manufacturing and parylene coating for UAVs (remote controlled drone)



Research association „Räumliche Elektronische Baugruppen 3-D MID e.V.“  
FAPS – chair for manufacturing automation and production systems



Aluminium injected molded part with electronic components fitted in the form of a „light bulb“, including Parylene Coating LPKF



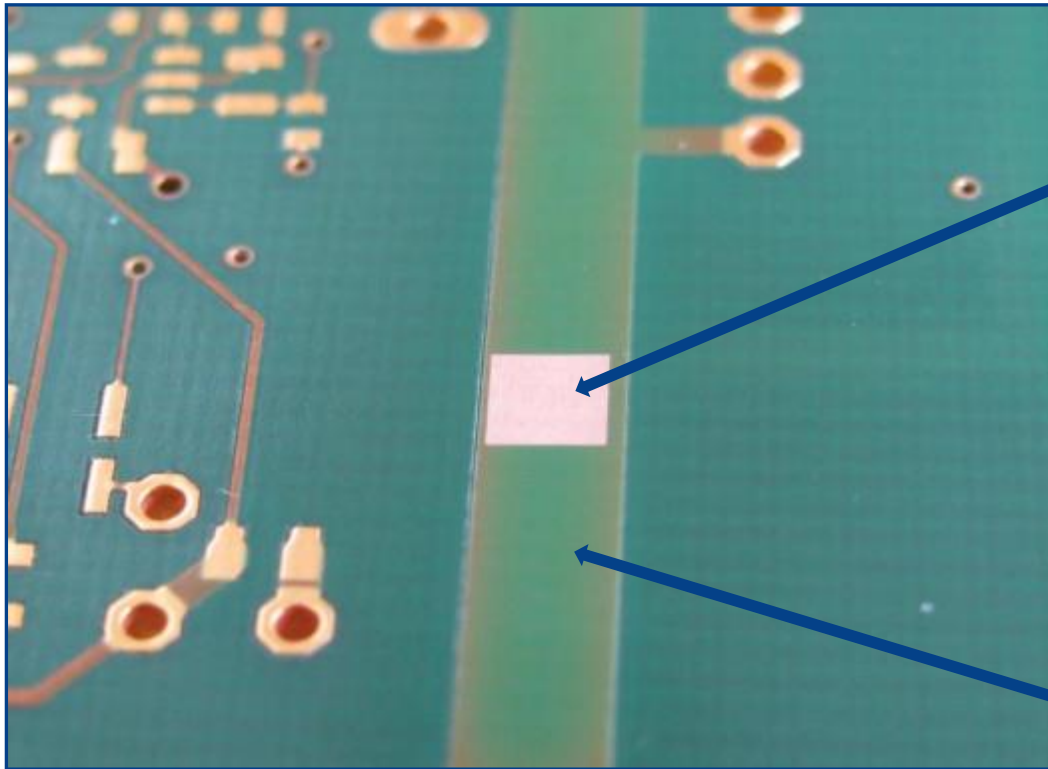
## 3-D MID (Molded Interconnect Device) Demonstrators





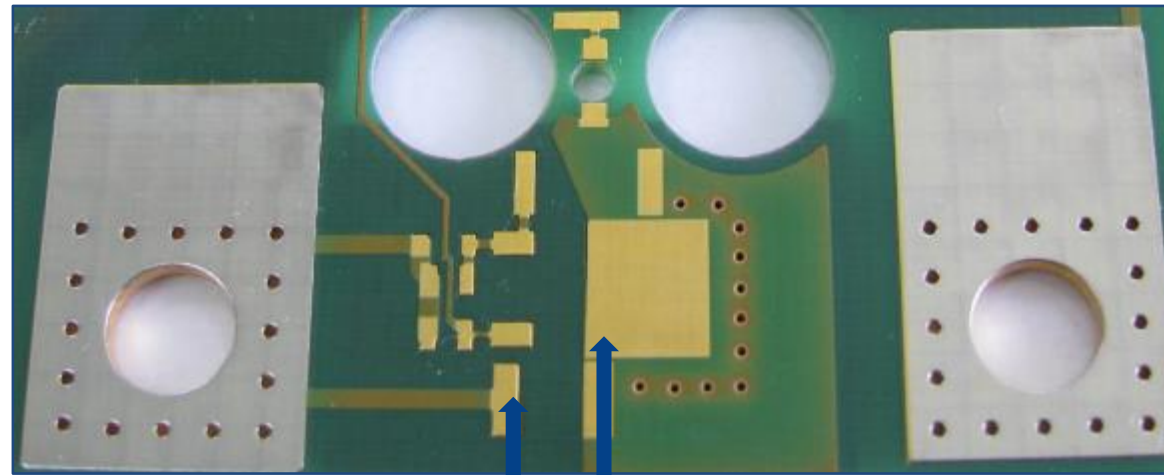
Aqueous cleaning services  
HFE-process as cleaning service





Solder resist has been removed partially from trace

Trace with green solder resist

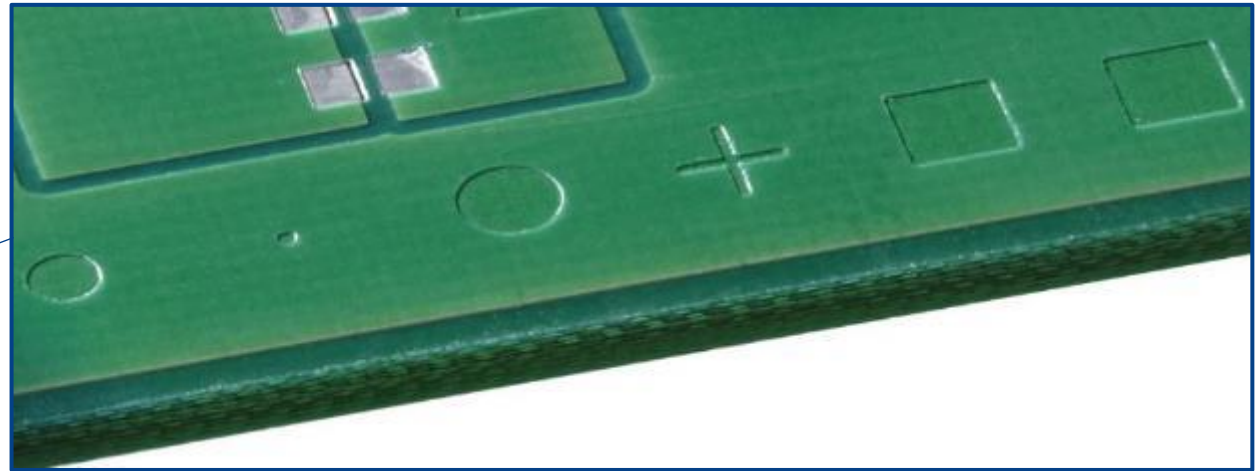
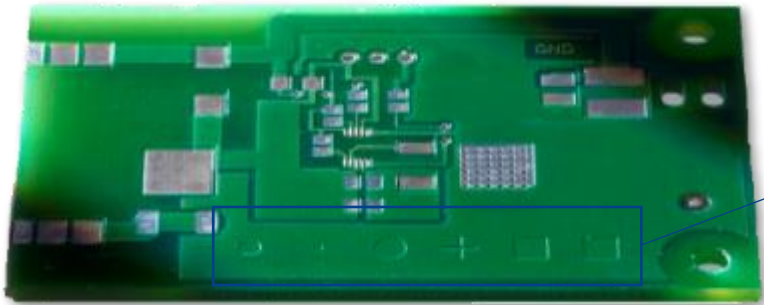


Gold plated traces

Gold layer has been removed partially

Gold layer has been removed partially

- Manual Protection with special protective masks
- Manually removing of the protective mask after parylene coating
- Unmask of coated areas with a **special laser**



*„Not a single defect product must leave the company.“*

Dipl.-Ing. R. Heicks, CEO





# Thanks for your attention



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