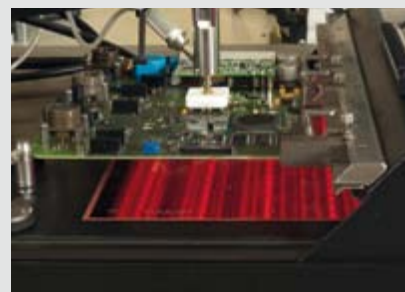


### Technical details

- Vapour phase – for unleaded and leaded soldering on one line
- Fallback solution - through second production line
- Scope of production from prototype units to large volumes
- Barcode system: traceability to component level  
Monitoring of production data, machine availability, production rate
- Double sided PC board assembly
- Selective lacquering
- AOI Systems
- Printed image control according to screen process
- Assembly according to IPC-610A-class 2
- Total feeder capacity of 534 storage positions
- Assembly capacity of 36,000 components /h
- Component sizes of 0.4-0.2 mm to 55 x 55 mm



## What DEUTA offers to you



### Range of services

- Quality guarantee – one line for prototype and series
- Reliability of delivery
- Personal contact partner for all queries and wishes
- Speedy quotation processing
- Many years expertise and qualified personnel
- Optimised procurement of materials and storing
- Customised testing and checking
- In-house certification
- ESD protected reusable transport packaging



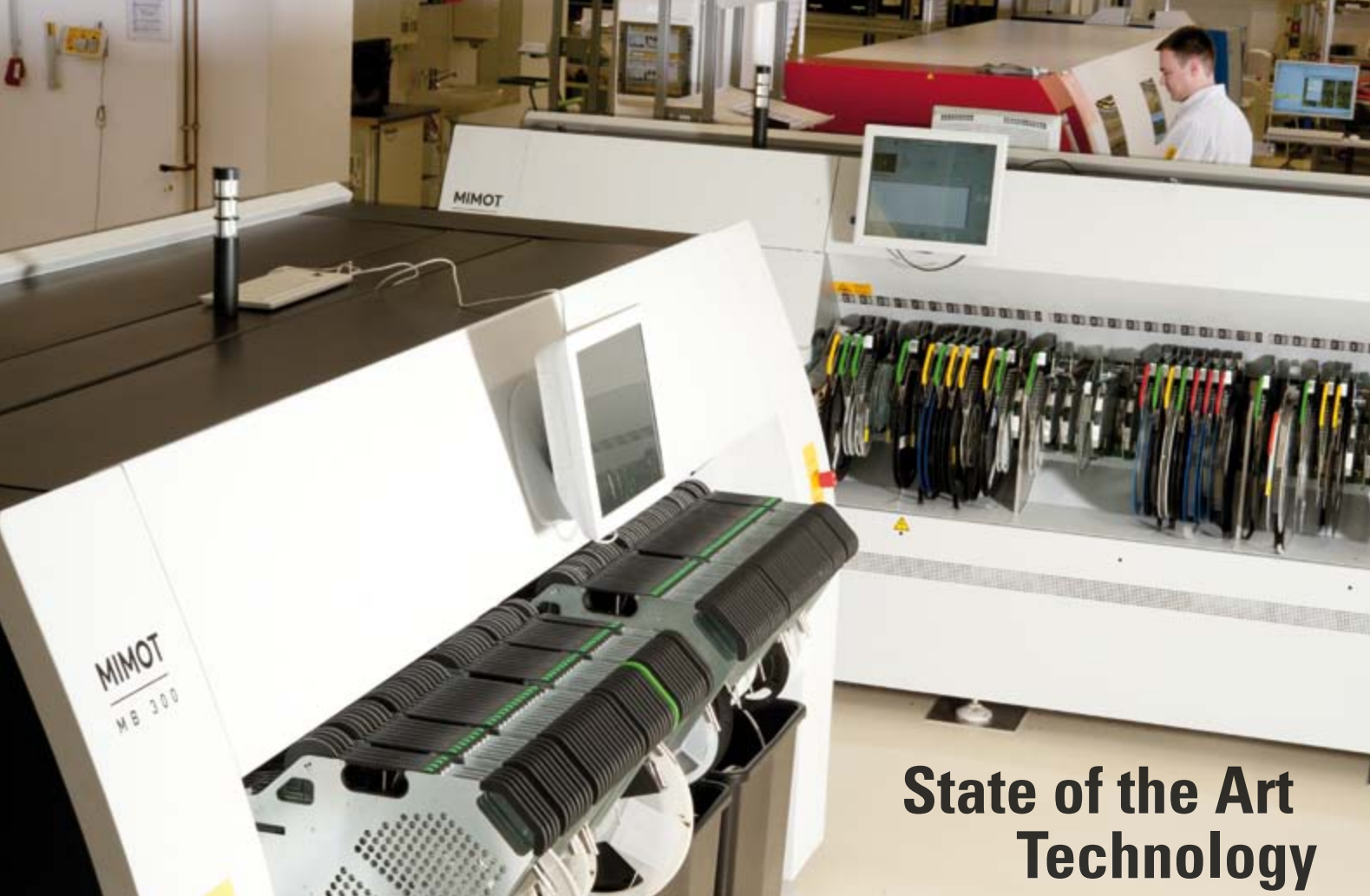
## EMS – Range of Services

Safety right from the prototype stage

### DEUTA-WERKE GmbH

Paffrather Straße 140 · D-51465 Bergisch Gladbach  
Tel. +49 (0) 22 02 958-100 · Fax: +49 (0) 22 02 958-318  
support@deuta.de · www.deuta.de





## State of the Art Technology

### EMS Board Assembly

#### Prototype design in series-production quality

At DEUTA you receive your prototype in series-quality because we produce your first model on the same line as the series – with no variations in quality

#### Vapour Phase Soldering

Leaded and unleaded assembly: with modern assembly lines we cater for the components of tomorrow. Your boards can be assembled leaded or unleaded according to requirements.

#### AOI-System

The in-line AOI System supports the error-free manufacture of your products. By use of image processing, even the smallest errors are detected on the assembled board at the production stage.

#### Intelligent Assembly Concept

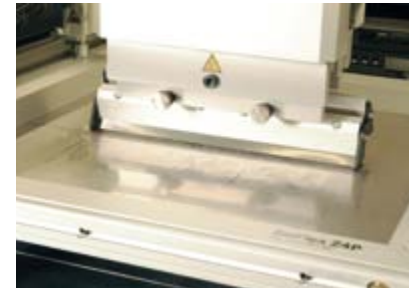
Our intelligent assembly concept ensures that there is order. Every component is given a barcode – this excludes any possible mix-up of components. All components are stored in air-conditioned SMD towers before and after the assembly project. The open times of the MSL components are permanently monitored.

#### Double sided PC board assembly – doubly good

Assembling both sides of your board is no problem for us.



Traceability of components in the SMD storage towers



Stencil printing – no need for CAD data thanks to simple programming with integrated camera system



Assembly of prototype and series on one line



Vapour phase soldering for leaded and unleaded assembly of circuit boards



Optical controls of the boards using an AOI-System



Selective lacquering



## Comprehensive Customer Care & Support

### Services for all aspects of your PC board

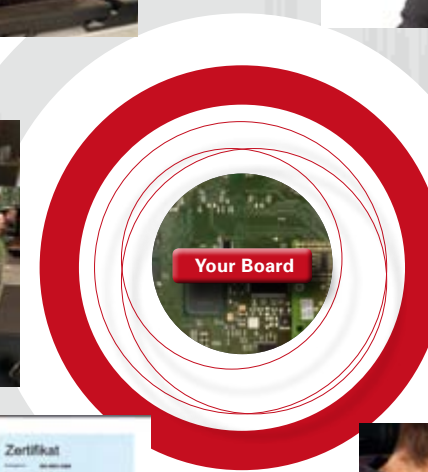
*Our range of services goes well beyond the SMD assembly and extends from board layout and manufacture to final testing. We will optimise your product for manufacture.*

#### Quality Management

DEUTA has been producing boards for 10 years. From printed circuit layout to logistics, all of our milestones are part of our ISO 9000:2001 certification and IRIS processes. As an active member of the Component Obsolescence Group - COG Germany, our quality management extends over the entire life cycle of each individual component.

#### Reliability of delivery

As a supplier of operator and display devices with long-term delivery commitments, DEUTA possesses wide-ranging experience with proactive worldwide management of component discontinuation notices.



#### Your contact partner

At DEUTA short delivery times and delivery commitment begins not just when an order is placed but already at the tender stage. Our personnel always have your wishes in mind. At DEUTA you have a contact partner who will oversee your board project from start to finish.

#### Procurement of materials

We will gladly undertake to source all components needed for your board. If required, we qualify second sources and ensure optimal storage conditions in the SMD towers so that your components are also in perfect condition for later applications.

#### Tests & Inspections

With 600,000 hours DEUTA displays hold the MTBF world record for most extreme environmental conditions – our test environment also prepares your products for severe conditions in the field. After every production step, DEUTA checks the functionality and quality of your boards with comprehensive analogue and digital tests.