

We are present at **productronica 2017**



Visit us 14-17 November
Messe München

Please mark your calendar and give us a call or an email with your interest and planned attendance, in order for us to book time slots for demos/meetings at the specific suppliers' booths.

Lars Kongsted-Jensen	Director	+45 20 98 37 30	lkj@ep-teq.com
Knud Vester	Director	+45 20 98 37 37	
Arne Fast Hansen	Technology Specialist	+45 20 98 37 34	afh@ep-teq.com
Michael Vester	Account Manager	+45 20 98 37 38	mv@ep-teq.com
Jussi Räsänen	Account Manager	+358 40 750 4113	jr@ep-teq.com

Please see NEWS & HIGHLIGHTS of our machines and tools presented at the exhibition, including supplier booth numbers. Click on the headlines for more information.

News & Highlights at **productronica 2017**

Tools for Design & Verification



DfT & Coverage Analysis from **Aster Technologies** (Lars Kongsted-Jensen/Jussi Räsänen)

A1.232

Test line overview

- ✓ Presenting machine, test coverage, cumulative coverage, escape rate at each step



Embedded Test Solutions from **Göpel electronic** (Lars Kongsted-Jensen/Jussi Räsänen)

A1.235

SCANFLEX II Cube - New generation of JTAG/Boundary Scan controllers for embedded board test

- ✓ Based on state-of-the-art multi-core processors and FPGAs for a multifunctional architecture



Probes & Fixtures from **Everett Charles Technologies (ECT)** (Michael Vester/Knud Vester)

A1.544

- ✓ NEW RF Coaxial Probe for up to 20GHz
- ✓ BMP-4 extended Board Marker Probe product line
- ✓ VG Mass Interconnect Series



2D/3D X-ray from **GE (phoenix|x-ray)** (Knud Vester/Michael Vester)

A2.246

- ✓ 2D inspection with x|aminer with Flash!Filters™ and CT option
- ✓ nanome|x with CT and planarCT
- ✓ nanoCT® solution for high resolution electronics CT nanotom m

Machines & Tools for Manufacturing

-  **Bonding Machines** from **Hesse** (Arne Fast Hansen/Knud Vester) **B2.221**
✓ BJ653 - BJ855 - BJ955 - BJ985 Bonders equipped with different types of automation
-  **Pick and Place** from **Hanwha Techwin** (form. **Samsung SMT**) (Arne Fast Hansen/Knud Vester) **A3.135**
✓ SM485P machine, various feeders and major insert components
✓ Remote control monitoring system (T-Mobile, Tablet supported)
-  **Laser Applications, Mounting, Routing, Final Assembly** from **OSAI** (Arne Fast Hansen/Knud Vester) **A3.458**
✓ Visit their booth for all their exiting news!
-  **Adhesive Bonding, Dispensing & Potting** from **Scheugenpflug** (Arne Fast Hansen/Knud Vester) **A4.454**
Material feeding unit A220 Basic - New entry-level solution for high viscosity potting media
✓ Bubble-free material feed - Easy operation - High process reliability
DispensingCell with new **cartridge expulsion unit A90 CV**
-  **Selective Soldering Systems** from **Inertec** (Arne Fast Hansen/Knud Vester) **A4.460**
✓ CUBE.460 with a mini wave module
✓ New modular system CUBE Inline+ with an ActiveFlow module
-  **Vapour Phase Soldering** from **exmore** (Arne Fast Hansen/Knud Vester) **A5.364**
✓ VS500 - renewed with Sigmatek PLC and HMI with Swipe technology
-  **Welding on Electronics** from **C-Welding** (Arne Fast Hansen) **A2.578**
New Copper Tab Battery Welder - 250i2 EV
✓ New motorized weld head – Greater control, precision and uniformity to every weld
✓ Solderless connections - Metals fused together for a continuous connection & no voltage drops
✓ Clean weld spots - Surface contaminates are burned off during welding process
✓ Weld dissimilar metals - Weld any combination of metals, such as Copper to Aluminium
-  **Thermal Profiling Solutions** from **Solderstar** (Arne Fast Hansen/Knud Vester) **A4.240**
✓ **Auto Seeker Profile Optimisation Software** - Creating the best oven profile for PCBs in seconds
✓ **Wave Shuttle Systems** - Proving & providing accurate monitoring for wave machines, creating digital logs - allowing you to perfect the wave equipment and prove performance & repeatability
✓ **Selective Shuttle** - Monitor every type of selective solder machine
✓ **APS-SMARTLINE** - Most advanced constant monitoring for the reflow process, creating a profile for every PCB made & providing fail safe production measures.
-  **High-end Rework** from **Zevac** (Arne Fast Hansen/Lars Kongsted-Jensen) **A4.277**
✓ ONYX29 semiautomatic rework system, upgradable to a full automatic system.
✓ New applications, like dip application, paste on device and reballing, can be discussed at the booth
-  **Extraction and Filtration Technologies** from **ULT** (Arne Fast Hansen/Lars Kongsted-Jensen) **A4.549**
LAS 260 - With particularly developed safe economic fume extraction & filtration methods
✓ For capture and filtration of easily inflammable or explosive dusts and air mixtures, occurring during surface processing of hard to handle elements, e.g. titanium.



Track, Trace & Control Systems from Cogiscan (Arne Fast Hansen/Jussi Räsänen)

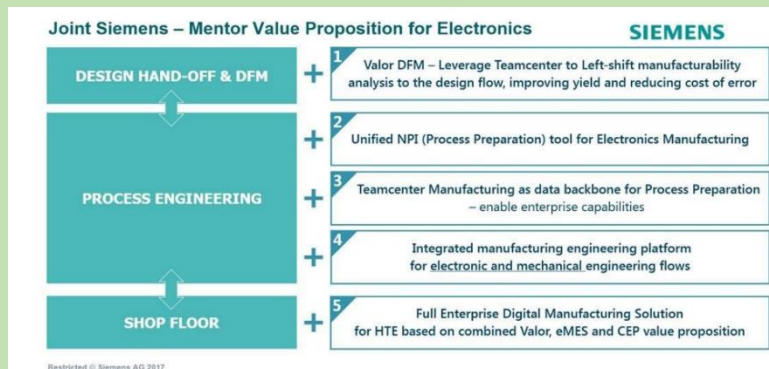
A2.361

Factory Intelligence – New Analytics package

- ✓ Analyse metrics and KPI over a period of time
- ✓ Extensive library of ready to use dashboards and reports
- ✓ Tools to create user specific analytics
- ✓ Possible integration of Analytics data with 3. party Business Intelligence (BI) dashboard applications

SIEMENS Manufacturing Execution Solution from Siemens (Arne Fast Hansen/Jussi Räsänen)

A3.434



Systems for Quality Assurance & Test



SPI from Göpel electronic (Knud Vester/Jussi Räsänen)

A1.235

- ✓ Very fast, world leading, innovative Dual 3D image Capturing Technology



AOI from Göpel electronic (Knud Vester/Jussi Räsänen)

A1.235

MagicClick – New feature on the system software PILOT AOI (presented on VarioLine)

- ✓ Fully automated creation and optimization of AOI test programs - in only about 3 minutes!

VarioLine· 3D - Solder joints measurements using 2D, full 3D even with 360 ° angled-view

PILOT Connect – Industry 4.0 compliant

- ✓ Centralized verification of all inspection results from multiple inspection systems and types in the line



In-Line AXI from Göpel electronic (Knud Vester/Jussi Räsänen)

A1.235

New StingRay X-ray detector - additional option for X Line · 3D

- ✓ Selective 2D, 2.5D and 3D X-ray inspection of complex PCBs thanks to highly flexible image acquisition concept consisting of high-speed axes and a flat-panel detector
- ✓ Even better layer separation, brighter images with a good image quality/inspection speed balance



Fixtureless In-Circuit Test (ICT) Flying Probe test from Takaya (Lars Kongsted-Jensen/Jussi Räsänen)

A1.239

- ✓ TAKAYA APT-1400F – The result of 30 years of Flying Probe Innovation!

- ✓ TAKAYA APT-1600FD-A – Dual-sided Flying Probe Tester Version



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Test Coverage Measurement from **Aster Technologies** (Lars Kongsted-Jensen/Jussi Räsänen)

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JTAG/Boundary Scan test/ESA from **Göpel electronic** (Lars Kongsted-Jensen/Jussi Räsänen)

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- ✓ CT nanotom m: The nanoCT® solution for high resolution electronics

We look forward to seeing you in Munich - hopefully also at our Nordic/Baltic networking dinner Wednesday or Thursday evening!

Best regards,

Knud Vester

Lars Kongsted-Jensen

Director
EP-TeQ A/S

Director
EP-TeQ A/S

Niels Bohrs Vej 32, Stilling DK-8660 Skanderborg
T. +45 87480608
F. +45 87480806
E-mail: sales@ep-teq.com www.ep-teq.com

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