“EUPASS, growing world-class in evolvable microassembly”

Sr Jan de Louw (coordinator of EUPASS project - www.eupass.org)

Philips Applied Technologies, High Tech Campus 7, 5656 AE Eindhoven, The Netherlands, Telephone: +31 40 27 48418, E-mail: j.a.h.de.louw@philips.com

The EUPASS project aims to develop the next generation of automatic assembly machines with specific emphasis on precision micro assembly. The consortium aims to develop an open machine architecture and demonstration equipment to offer plug and produce capability. The consortium also aims to set up a network of European Depots for equipment modules to allow rapid deployment and reduce the time to market for new products.
This will be achieved by developing and delivering a number of breakthrough technologies and solutions including:

- The development of affordable, cost effective and sustainable ultra-precision manufacturing solutions by offering rapidly deployable ultra-precision assembly services on demand.
- A European wide pilot infrastructure of depots of microassembly modules and integration software, enabling rapid configuration and deployment of flexible precision assembly systems with minimum investment cost.
- The next generation of ultra-precision enabling technologies, including modular high-precision manipulators, grippers and feeders.
- The development of novel micro joining techniques including micro-mechanical joints, nano-dispensing, and laser welding.
- Robust and legacy-compliant knowledge driven methodology, cost models and software tools to support the offering of rapidly deployable ultra-precision assembly services with low investment cost, high capacity utilisation and improved equipment
reusability.
- A set of new standards for seamless integration of precision assembly modules and control systems using open architecture approach.

For more information on this exciting and challenging project please visit www.eupass.org