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Many eyes makes for fast inspection: New camera module for large THT inspection

GOPEL electronic presents at this year's SMT/Hybrid/Packaging in Nuremberg a further evolution of the award-winning AOI system THT-Line providing shorter cycle times. The heart of the system is the newly developed camera module MultiEyeS, which offers large-scale, high-resolution image acquisition at unprecedented speeds without any motion. This allows, as an example, inspection of any number of THT components within an area of 490 mm x 390 mm in less than 7 seconds. Another highlight of MultiEyeS is the focus range of 100 mm, allowing for inspection of extremely high components.

In addition to the integration of the camera module MultiEyeS for THT component inspection, integration of an independently functioning inspection system for solder joints is possible. It can be used either in the lower return transport or also in the upper conveyor system. This enables combinational variants that provide numerous ways to effectively adapt the overall system into the user-specific manufacturing process. A typical application has the upper inspection module inspecting components prior to wave solder and the lower inspection module inspecting solder quality after wave solder. This makes it possible for one system to inspect both components and solder. While this configuration is typical, the inspection modules can be flexibly used in many configurations. In addition to the accumulating roller transport for assemblies in a workpiece carrier, optionally a tape transport for assemblies without a workpiece carrier is available. Thereby, inspection of selective solder joints on assemblies transported on workpiece carriers is possible in the manufacturing process.

The optional integration of a laser height measuring system for the control of coplanarity (as with connectors) or for height measurements on various components complete the variety of configurations possible and provides the user additional possibilities for quality control.

About GOPEL electronic:

GOPEL electronic is a technologically leading vendor of professional Automated Optical Inspection systems (AOI) and Automated X-ray Inspection Systems (AXI). A network of

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branch offices in the UK, China, India and the USA, international distributors and service partners ensures the global availability of the products as well as the on-site support to several hundred system installations. Founded in 1991 and headquartered in Jena, Germany, GOPEL electronic has currently more than 215 employees and generated revenue of 30 million Euro in 2014 (approx. \$32 million). GOPEL electronic has continuously been ISO9001 certified since 1996 and has been honoured with TOP-JOB and TOP-100 awards for being one of the best medium-sized companies in Germany. GOPEL electronics' industry award winning products are relied on by the leading companies in telecommunication, automotive, space and avionics, industrial controls, medical technology, and other industries. Further information about the company and its products can be found on the internet at www.goepel.com.

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