

ArtiMinds Robotics and Eberhard announce partnership for innovative automation solutions in THT assembly

ArtiMinds Robotics and Eberhard AG launch a strategic partnership to jointly offer customers highly innovative, robot-assisted THT assembly systems.

KARLSRUHE, GERMANY, November 5, 2024 /EINPresswire.com/ -- [ArtiMinds Robotics GmbH](#), a leading provider of software and engineering services in the field of advanced robotics, and [Eberhard AG Automations- und Montagetechnik](#), a leading global manufacturer of automation and assembly systems and specialist in electronics manufacturing, have entered into a strategic partnership. Together, they offer electronics manufacturers a fully integrated solution for the automated assembly of printed circuit boards with wired components using the THT (Through-Hole Technology) process.



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Roman Klingl, Vice President Sales at ArtiMinds Robotics

Challenges in [THT assembly](#): complexity and precision
In the case of transformers, coils, large capacitors, hybrid modules or multi-pole plugs and sockets, for example, this process has mainly been carried out manually to date due to the complexity and variety of variants. The high precision requirements and the sensitivity of the components present companies with major challenges when it comes to automating this task. The collaboration between ArtiMinds and Eberhard aims to overcome these hurdles and open up new applications by combining the extensive expertise of both companies in the field of

robotics and electronics manufacturing.

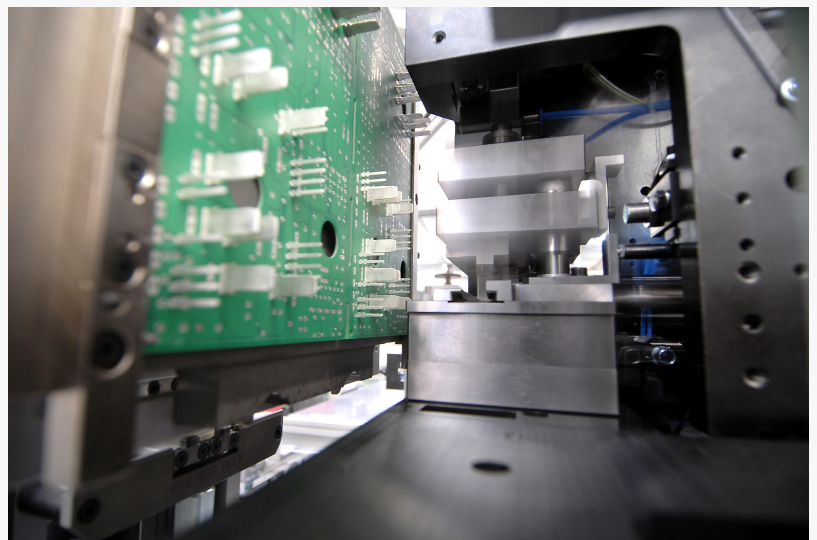
Innovative technologies for future-proof production

ArtiMinds Robotics contributes years of application experience in robot-based THT assembly as well as its manufacturer-independent ArtiMinds Robot Programming Suite (RPS) software to implement the complex process using robot automation. Force-controlled, sensor-adaptive joining processes are particularly crucial for sensitive and multi-variant components. Thanks to the intuitive programmability via function templates and the integration of all common force-torque sensors and camera systems, the RPS software facilitates automation and ensures robust, precise and efficient THT processes.

Eberhard AG contributes its comprehensive know-how in the design and manufacture of electronic assembly systems. By combining the technologies and expertise of both companies, customers will be able to obtain a complete THT assembly solution from a single source that increases efficiency, reduces error rates and lowers production costs.



The aim of the partnership between ArtiMinds Robotics and Eberhard is to develop innovative, robot-assisted automation solutions for THT assembly



Due to the high level of complexity and precision required, the assembly of PCBs using the THT process has so far mainly been carried out manually

“This partnership is a significant step towards transforming an area of electronics manufacturing that is considered difficult to automate,” explains Roman Klingl, Vice President Sales at ArtiMinds Robotics. “With our process expertise and robotics software, we are helping Eberhard AG to develop highly flexible THT assembly systems that are individually tailored to the customer's needs.”

“By bundling our expertise, we are able to offer a turnkey solution that is both technologically leading and economically attractive,” adds Heinz-Georg Geissler, Director Customer Journey & Authorized Signatory at Eberhard AG. “Both the system and the process development and

programming come from a single source.”

The strategic partnership between ArtiMinds and Eberhard represents a significant step forward for automation in electronics manufacturing and paves the way for future-proof, automated production.

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