



Press Release

27th October 2017

ATV Technologie GmbH successfully completed project in cooperation with TU Berlin and Fraunhofer IZM - First Thermo-Compression Bonder (TCB) in operation

"With the launch of the new thermo-compression bonder (TCB), we were able to celebrate another milestone on our technology Roadmap," says Dr.-Ing. Ventzeslav Rangelov (Technical Director, ATV Technologie GmbH). The vacuum soldering system with built-in bonding apparatus is used in particular for new connection technologies such as Silver sintering, and diffusion soldering.

TU Berlin and the Fraunhofer IZM, were able to bring in their material and process technical knowledge in the area of assembly and connection technology in the project.

It has been successfully complemented by the know-how of ATV technology GmbH in regards to development and production of special equipment for vacuum-Reflow-soldering. This has been a successful partnership!

The principle is based on an isostatic pressing process, by means of an elastic membrane.

Thus, it is possible to apply, over the entire assembly surface, a mechanical pressure on the electronic components without the use of additional balancing tools.

"The advances in power electronics with increasing temperature, and higher complexity of the modules, in the field of assembly and connection technology are always new challenges," said Rangelov. With this patented technology, ATV Technologie GmbH has proven that it also masters these challenges.

In the past three years, this promising project in the framework of the Central Innovation Program SMEs (ZIM) was promoted by the Federal Ministry of Economics and development.



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About ATV Technologie GmbH:

Founded in 1982 ATV Technologie GmbH is an international player in the field of microelectronics focusing on manufacturing and distribution of vacuum reflow soldering and processing ovens. With an expert team of engineers and physicists rooted in precision mechanics, electrical and mechanical engineering. ATV Technologie GmbH designs and develops a product range at the highest level of quality. Universities, institutes, laboratories and leading production companies worldwide appreciate our flexible and customized solutions.

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