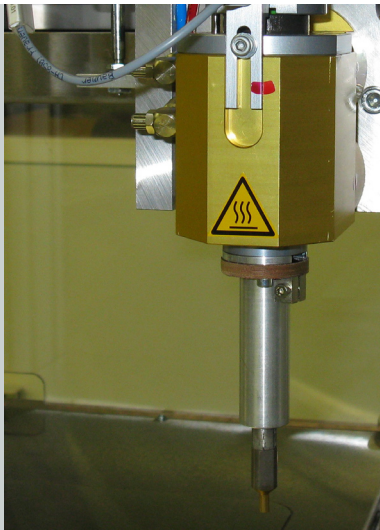


Heat stacking including ultrasonic power support

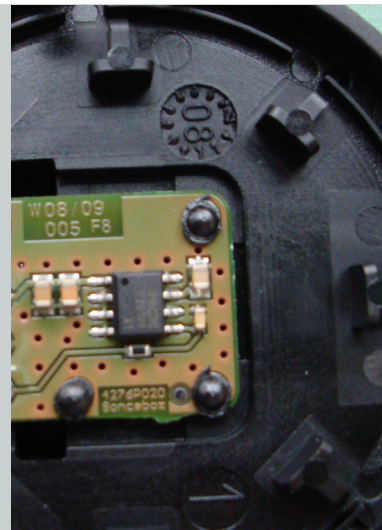
- **Is ultrasonic welding or screwing too expensive for your application?**
- **Is ultrasonic welding not as sensitive to the product as you need?**
- **Would you like to combine PCB fixation and soldering in the same process cell?**

If you respond "YES" to any of the above questions, you should have a look at the recently realized solutions for our customers throughout the world covering automotive, electronics, medical and telecommunications industries.

mta modularity



mta Quality



Process and cost optimization

Continuous innovation and customized solutions are playing an important role in the company's philosophy.

Due to several customers' needs, some heat stacking solutions were realized, mostly for attaching PCB's instead of screwing and / or ultrasonic welding. In turn, a solution had to be found where the part was not exposed to heavy forces and vibration during the ultrasonic welding process. Due to the nature of the application, a screwing or gluing process could not be taken into consideration.

Therefore, the hot plastic stamping method is more appropriate in terms of costs and force applied on the product. Additionally this solution is almost noise free which relieves the working operators.

mta can also propose heat stacking in combination with ultrasonic welding at around 40 kHz, but with reduced pressure power due to the heat stacking tool itself. This process technology combination provides particular advantages in terms of smoother product treatment, cycle time, spatial constraints and costs.

Module construction philosophy

This smart and cost effective solution is based on the recently re-designed and optimized 150W power head used for iron soldering.

The tip for heat stacking is specifically manufactured for each single application. The temperature can be configured between 100 and 450°C. Additionally the ultrasonic device can be integrated as per individual needs in order to reduce the cycle time.

The machines' capabilities cover a broad range of applications however only requires small space. With a real cost and technology advantage in mind, a valuable alternative can be offered compared to the solutions available today on the market.

Do you have similar applications' needs? If so, please don't hesitate to contact the following person:

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