

## **NIMAK welding guns break with all conventions**

**During “Joining Cutting Surfacing”, the inventor of the robot welding gun is also presenting a completely new welding process**

Wissen, 22<sup>nd</sup> of August 2017 – “Joining Cutting Surfacing” 2017 is just the right platform for NIMAK to present an entirely novel concept for robot welding guns. The German manufacturer which is also the leading supplier of resistance welding technology in this sector is breaking all previous conventions with this innovation. According to the company headquartered in the Westerwald district the new generation of robot welding guns is aimed both at the requirements of the multi-material mix and use in large scale production for conventional steel applications. It is based on a centralized motor and gear unit that on the one hand enables a significant weight reduction and simultaneously lower interference contours and on the other leads to joining results that are even superior to the previously available systems. “We have now developed a welding gut that in simplicity, weight and parts reduction, performance and functionality outshines everything previously seen” emphasizes Paul Nickel, Managing Partner at NIMAK.

### **New short time welding with “magneticDRIVE” optimizes quality**

Along with the premier that is being celebrated as a sensation by the company which invented robot welding guns more than 40 years ago, a completely new welding process is being highlighted during the NIMAK fair presentation. The “magneticDRIVE” drive type which has been unique on the market and which profits from the high power and immense speed of microprocessor-controlled electromagnets is also available for the first time ever in connection with the new time welding (STW). This facilitates welding times of a few milliseconds, providing an alternative for the previous capacitor discharge welding. The

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prerequisite is an ultra-fast power-generation and slip system in which the user can set an exact power profile which controls the rise and fall of the electrode force across a large range in milliseconds.

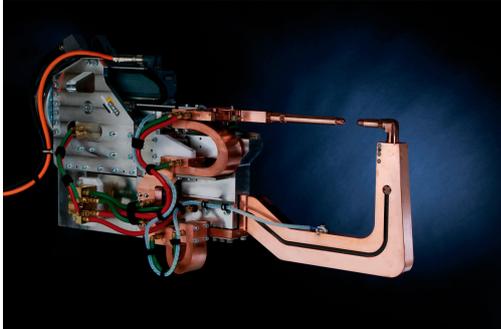
That is exactly what “magneticDRIVE” does. Together with STW it can be used in all resistance welding applications, from stationary spot and projection welding machines up to robot welding guns. The new, extremely short and controlled welding process opens completely new joining opportunities in the modern multi-material mix. That is especially interesting also for spot and projection welding of aluminum with highly-varied alloys that are used in automobile construction as well as in the aerospace industry. “Here not only can we optimize the quality but also significantly extend the service lives of the electrodes” explains Nickel.

## **Gluing and dosing technology also an important topic**

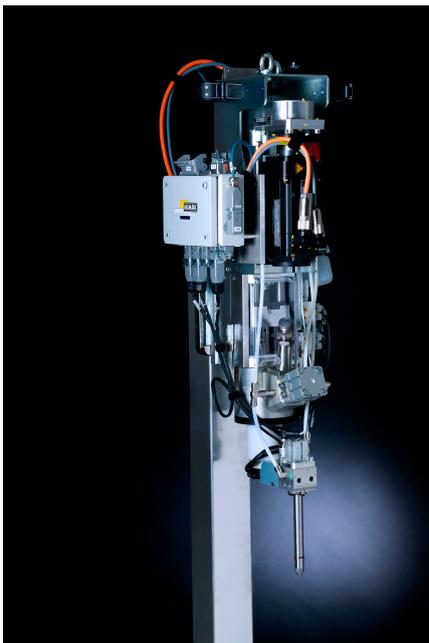
During the trade fair in Düsseldorf, gluing and dosing technology is also an important topic. The company - worldwide the only one that supplies this to its customers along with resistance welding technology from one single source - is presenting the new generation of “a.tron” systems. For this glue dosing and application technology NIMAK developed a completely new decentralized controller. It is now integrated in the dosing feeder, which permits the elimination of an expensive, space-grabbing controller cabinet. “It also makes the operation more intuitive and we enable a savings of the investment costs of about 20 percent” is how Nickel summarizes the advantages. “In that regard, the world's foremost trade fair for joining technology is a great opportunity for us this year to show the visitors highly interesting innovations in this sector as well as in our core competency of resistance welding”.

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| Figures:



**Fig. 1:** Robot welding gun powerGUN with STW and magneticDRIVE technology opens completely new joining possibilities in the multi-material mix.  
Photo: NIMAK GmbH



**Fig. 2:** The new generation of the a.tron gluing system with the completely newly developed, decentralized controller saves space.  
Photo: NIMAK GmbH

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## | About NIMAK

On a global scale, NIMAK is the only supplier of resistance welding and simultaneously adhesive technology. The company headquartered in Wissen is considered an innovation leader by customers and users. As the inventor of robot welding guns, NIMAK has helped this technology gain acceptance and in this sector is now the largest German and international leading manufacturer. The joining specialist from the Westerwald district is the sole premium supplier of the automobile industry that has the approval to meet customer-specific standards for welding guns. Furthermore, manual welding guns, welding machines and gluing and dosing plants are also included in the product portfolio. The company also develops individualized automation solutions for all applications. With more than 50 years of experience in the “perfect connection”, NIMAK is active around the world. 430 employees support customers from highly diversified sectors - in particular automotive, consumer goods, the aerospace industry and metalworking - with their challenges in production and accompany them in new markets and in uncharted technological territory.

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