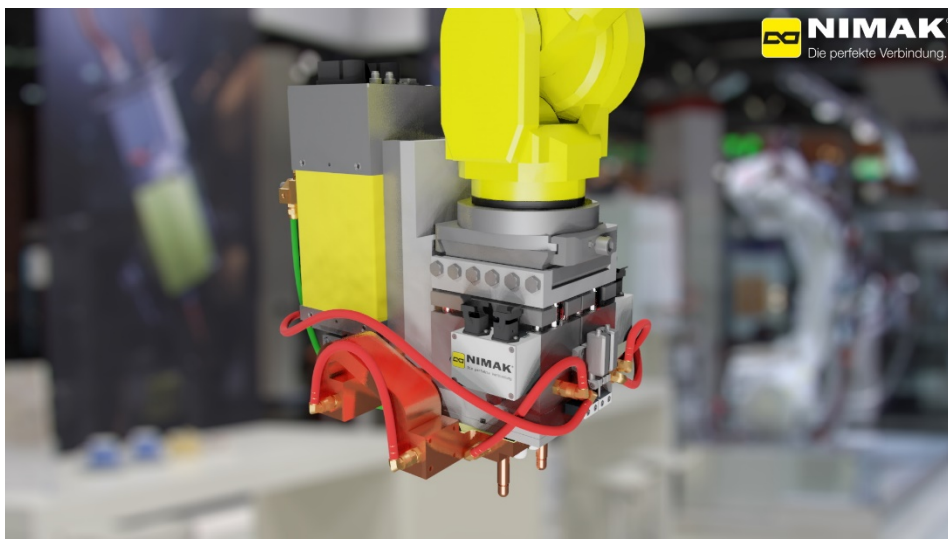


twinWELD is also welding from just one side!

| Our challenge:

- Due to constructive interfering contours, not all points can be reached with conventional welding systems such as the classic X and C guns
- These systems require accessibility from both sides so that the current must flow through both electrodes and sheets
- If this arrangement is not possible, twinWELD comes into play



| Our solution:

- Here the visible and accessible upper sheet is contacted on one side by both electrodes
- The prerequisite is that the sheet metal combination can absorb the electrode force
- This can be achieved by a profile construction or by supporting the lower sheet
- Top layer sheets up to approx. 1.5mm can be welded on one side with two spots simultaneously
- This applies to steel sheets, but also to aluminum sheets

| Features:

- In addition, units serve to apply the electrodes gently and with the most precise electrode force
- Since the systems works in a closed control loop, the electrode force is also constantly adjusted
- The system is usually connected to a robot that guides the electrodes to the sheet metal
- The magnetic units resemble here arising force fluctuations, which are caused by vibrations, bends etc., automatically and quickly
- In addition, the sensor technology enables conclusions to be drawn about material expansion, for example in the aluminum area, which can also be used for quality evaluation. This information is essential in the area of single-sided welding, in addition to path and current measurement
- In principle, the unit is offered in different performance classes analogous to robot guns, depending on the application

Technical data (based on individual customer requirements!)

Force	Approx. 0,1 kN – 1 kN Approx. 1 kN – 5 kN
Current	Approx. 0,1 kA – 1 kA Approx. 1 kA – 15 kA Approx. 15 kA – 40 kA Approx. 30 kA – 80 kA