



## Success Story

**Simple, fast and reliable**

New TIG welding power sources with innovative functions

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**HAIGER/BAD WÖRISHOFEN – The demands on manual welding are growing continuously: the welding process must not only be carried out ever faster, but also with ever increasing quality. In addition, users require simple and intuitive operation. For this reason, Häwa GmbH recently invested in four new TIG welding machines from CLOOS at its site in Bad Wörishofen.**

As a manufacturer of electrical enclosures, control cabinets and other housing solutions for the installation of electrical components, Häwa GmbH relies on individual and flexible solutions in sheet steel, stainless steel and aluminium. At its three locations in Southern Germany, more than 400 employees produce around 70,000 large cabinets and 120,000 enclosures each year. At the same time, its customers worldwide are supported on the spot by branch offices and local partners. "Our customers especially value our high product quality and comprehensive service," says Lutz Georgi, plant manager for stainless steel production at the Bad Wörishofen site. The company's production of sheet metal is concentrated here, employing around 60 workers.

### Four new TIG welding machines

Häwa has been growing continuously for many years. As a result, this year Häwa began extensive building and conversion work in Bad Wörishofen to create more space and improve its internal material flow. Consequently, the company recently upgraded 14 of its manual welding workstations to ensure they meet the latest technical standards. Four new TIG welding machines by CLOOS have been in use since the beginning of June. With the QINEO GLW 302, the employees can now weld a wide range of different components. The compact, water-cooled machines are equipped with a trolley for flexible use in the production hall.



Photo 1: Häwa has now installed a total of four new TIG welding machines by CLOOS at its Bad Wörishofen site.

### Innovative TIG functions

Above all, the welders at Häwa benefit from the Quick Spot function offered by the new machines, since it makes the tack welding process significantly easier. Precise positioning of the electrode at the smallest possible distance is no longer necessary; instead the electrode is conveniently placed at the tack weld position which gives the welder perfect control. After the electrode is lifted, a stapling pulse with a timed duration is emitted. This closes the tack weld immediately with minimal heat input. With conventional welding methods, the continuous supply of energy prevents the workpiece from cooling which causes a high level

of penetration as well as workpiece distortion. The CLOOS Quick Spot function also significantly reduces workpiece contamination

### Easy to use

"In addition to absolute reliability for a long service life, ease of use is of paramount importance to us," emphasises Georgi. "The relatively simple design of the welding machines means we also have new and inexperienced employees working well with them."

The welders at Häwa have quickly adjusted to the new equipment. "On many devices the menu system is far too complicated," says welder Jana Feuerherm. "With the new TIG machines by CLOOS, I can configure the required settings simply and quickly." Welder Christian Schwabach is also pleased with the new equipment: "I can now control my device via the welding torch without constantly needing to stand up, which makes my work much easier." In addition, it is now possible to save the configured welding jobs and reuse the existing parameters for future tasks which saves a lot of time in day-to-day work.



Photo 2: The new welding equipment distinguishes itself above all by its reliability and ease of use.

### Long-term partnership

At its headquarters in Wain, Häwa has been successfully collaborating with long-standing CLOOS distributor PG Schweißtechnik for several decades. "The welding market is very complex and a good advice is very important," says Georgi. "We are very satisfied with the service provided by CLOOS and PG Schweißtechnik." For example, PG Schweißtechnik provided intensive on-the-spot training for our staff on the new equipment.

### Expansion of the welding division

Häwa hopes to complete the construction and conversion work at its site in Bad Wörishofen later this year. But first, its welding shop will be further expanded to accommo-

date 21 manual-welding workstations. The older welding equipment will gradually be replaced by new machines. Subsequently, the topic of automation will also be stepped



up.  
Photo 3: The employees were actively involved in the design of the new manual welding workstations.

### New series of TIG welding power sources by CLOOS:

The new range of QINEO GL TIG welding machines (DC welding) and GLW (AC/DC welding) by CLOOS helps the welder complete challenging welding assignments thanks to a number of innovative TIG welding processes and functions. The robust power sources can be used in both manual and automated production across a wide range of industries. These welding machines are suitable for use on the largest construction sites and the most punishing assembly lines and are connected either via power supply cables up to 100 metres in length or directly to the generator. Their high degree of tolerance against power fluctuations ensures perfect welding results. The configuration possibilities of the new welding power sources are as flexible as the welding applications are versatile. From the small and portable GL 202 for DC welding to the powerful and mobile GLW 502 for AC/DC welding, users can flexibly employ the innovative welding functions. With a performance of up to 500 amperes, the new machines will especially prove their value via reduced welding times and minimised rework rates. Furthermore, they are designed to be particularly user-friendly, thus enabling fast, simple and intuitive operation. The new range is supplemented by options such as water cooling, welding torches and remote controllers from the extensive CLOOS product portfolio.

The innovative TIG functions at a glance:

Quick Start	Tack welding of metal plates with small gaps and irregular preparation in record time
Dynamic Arc	Active arc control for reduced heat input and reduced workpiece distortion via modulation of the arc geometry
Quick Spot	Optimum tacking results, minimum heat input and perfect control thanks to a refined process flow
Multitack	Control of welding speed and heat input via a series of repeated ignitions
Mix TIG AC/DC	Outstanding bath control and a very high energy input, not just for coarse-walled components
Extra Fusion	Improved penetration with reduced plate thickness to ensure reproducibility and minimise rework
Electrode welding	Arc Force for outstanding welding properties and Voltage Reduction Control to ensure safety



Photo 4: Welders Jana Feuerherm and Christian Schwabach are visibly satisfied with the new machines.

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