IQS-SERIE

TOP-LEVEL MANUAL WELDING

AMAFILTER® RELIES ON THE NEW IQS INVERTER GENERATION

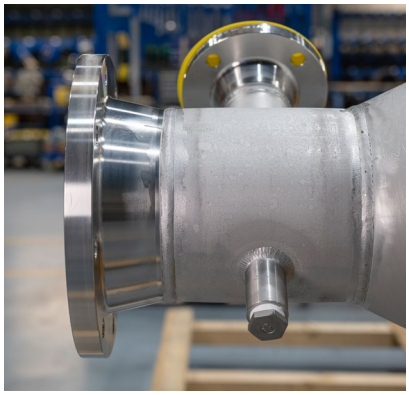
The plant in Lochem, Netherlands, is one of the first companies in Europe to integrate three systems from Lorch Schweißtechnik's new iQS series into its production operations. Amafilter® specialises in the development and manufacture of filtration systems for separating solids from liquids. It manufactures pressure vessels in a wide range of sizes – from a diameter of 219 millimetres to two metres – that can withstand internal pressures of -1 bar to 6 bar and temperatures of 10 to 150 degrees Celsius. As Amafilter® mainly offers filtration solutions for companies in the food and beverage, chemical, biofuel and sulphur sectors, stainless steels (V2A, V4A, duplex and super duplex) are predominantly used, which significantly increases the demands on welders. Around 200 filter systems are manufactured each year, with 70 per cent of the weld seams being welded by hand. In daily use, the iQS systems impress not only with their very high welding performance. The new digital features also significantly increase the efficiency and effectiveness of welding work at Amafilter®.

OUR CUSTOMER AT A GLANCE

AMAFILTER® (part of the Filtration Group)

- Lochem, Netherlands
- Filtration Group total: 7,208 employees
- Manufacture of high-tech products for the chemical, food and mining industries
- www.amafiltration.com/

The pressure vessels reach diameters of up to two metres and must be able to withstand pressures of up to 6 bar in some cases.



Excellent weld seams are a prerequisite for every component. Thanks to the excellent powder technology and stable arc offered by the new iQS, even the high demands of stainless steel are no problem when welding.

Top marks: slim torch handle, stable and smooth arc, perfect gas coverage: the new iQ LMS Performance torch, which comes as standard with the iQS, contributes to optimum welding results and fatigue-free working.

MIG-MAG welding in perfection

INTELLIGENT NETWORKING AND HIGH-END TECHNOLOGY FOR MAXIMUM EFFICIENCY

The use of a new generation of inverters in the iQS series ensures that processes run more stably and smoothly. Parameters can be adjusted continuously, and newly developed RCS technology facilitates short-arc welding. This enables clean, low-spatter processing even with very thin sheets. Due to the higher welding temperatures and the high thermal conductivity of stainless steels, Amafilter exclusively uses the pulse welding process. The iQS delivers a particularly stable arc and the heat input can also be optimally adjusted, resulting in less rework and excellent weld seams.
In addition, the iQS features significantly simplified networking: Ethernet, on-board WLAN and direct access to Lorch Connect enable new welding processes and updates to be installed quickly – even during active production. This ensures that the system is always up to date. Welding data can be automatically recorded and evaluated, which offers greater safety and convenience, especially in areas subject to testing. This also has a major advantage in terms of machine servicing, as any problems with the system can be quickly and immediately solved digitally. The innovative Smart Process Control Engine (SPC), a high-end technology developed by Lorch, also makes it possible to develop welding processes more quickly and transfer them to the system.

'We are absolutely impressed by the quality and capabilities of the iQS. It offers unrivalled welding performance and is easy to use. And thanks to its digital capabilities, it gives us the confidence that we will be well equipped to meet the ever-changing market requirements in the future.'

– Rutger Brouwers, Quality Control Engineer

FACTS

- Very high welding performance
- Easy short arc welding thanks to RCS technology
- Particularly stable arc during pulse welding
- Clean weld seams
- Simplified networking enables new welding processes and updates to be implemented quickly
- Automatic reading of welding data increases safety
- Faster development and transfer of new welding processes thanks to Smart Process Control Engine

www.lorch.eu

LORCH
smart welding