"This new welding torch is far more durable, even with daily use. Even when I do have to replace the ARCLINE® PAW nozzle, it's so easy – it's like changing a light bulb!"

Roger Andersson, welding operator at ÖMV

Getting ahead through innovation

With its innovative concepts, Linde is playing a pioneering role in the global market. As a technology leader, it is our task to constantly raise the bar. Traditionally driven by entrepreneurship, we are working steadily on new high-quality products and innovative processes.

Linde offers more. We create added value, clearly discernible competitive advantages, and greater profitability. Each concept is tailored specifically to meet our customers' requirements – offering standardized as well as customized solutions. This applies to all industries and all companies regardless of their size.

If you want to keep pace with tomorrow's competition, you need a partner by your side for whom top quality, process optimization, and enhanced productivity are part of daily business. However, we define partnership not merely as being there for you but being with you. After all, joint activities form the core of commercial success.

Linde – ideas become solutions.

Linde GmbH
Dr.-Carl-von-Linde-Strasse 6–14, 82049 Pullach, Germany
Phone +49 89 31001-0, www.linde-gas.com

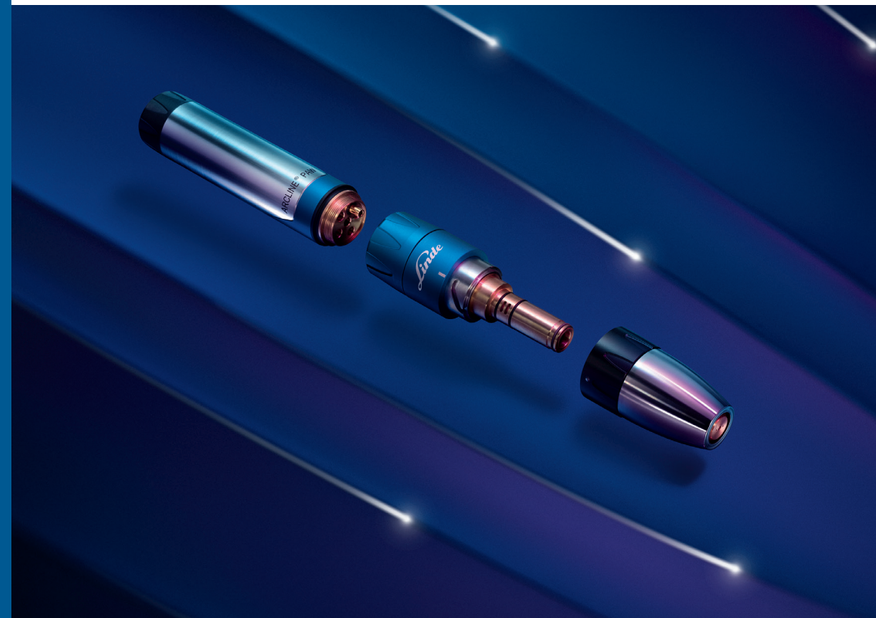
0000389_TCS_1120

ÖMV
AN OSTP GROUP COMPANY

Linde

ÖMV takes the lead with ARCLINE® PAW

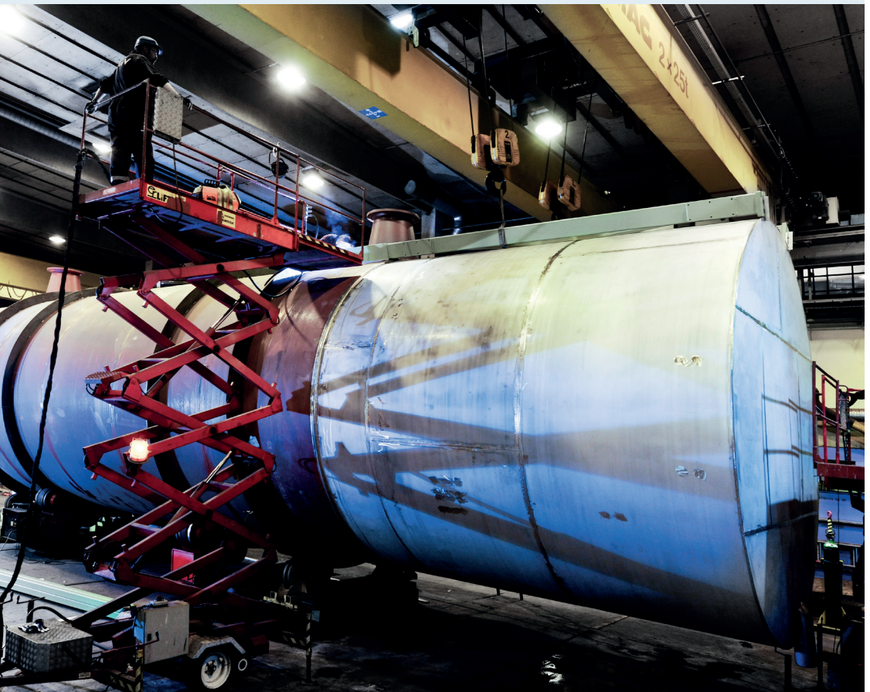
First ARCLINE PAW adopter worldwide takes the complexity out of plasma arc welding



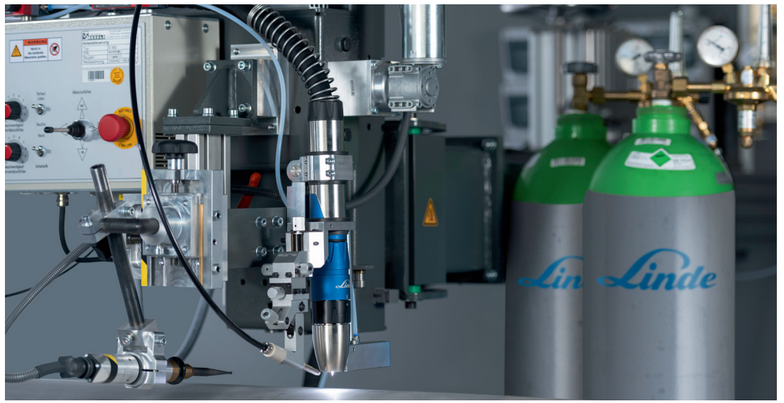
Customer

Based in Örnsköldsvik in Sweden, ÖMV AB is a member of the OSTP Group, which specializes in welded stainless steel tubular products. With 60 employees and an annual turnover of EUR 100 million, ÖMV manufactures advanced process equipment including heat exchangers, reactors, tanks, cisterns and columns. These products are used in some of the world's most demanding industries, such as pulp and paper, chemicals, energy, and oil and gas. Because these products often operate in high-pressure, high-temperature and corrosive environments, the highest standards of quality and reliability are a must.

ÖMV typically relies on the quality and productivity benefits of plasma arc welding to manufacture this type of equipment. "There's no room for error in our welding processes," explains Ulf Pehrson, Technical Manager at ÖMV, adding that the company has used plasma welding for many years as it is the most reliable welding method for challenging applications.



Left: ÖMV manufactures advanced process equipment that often has to operate in high-pressure, high-temperature environments.



ARCLINE® PAW: a new welding solution specially designed for quality-critical applications and exotic materials such as high-alloyed steels and titanium.

Challenge

Although plasma arc welding (PAW) is an extremely productive, high-quality welding technique, it is often perceived as a complex, time-consuming process that requires a high level of skill.

An early adopter of technology innovations promising efficiency gains, ÖMV is always looking for new ways to streamline and simplify its welding workflows without compromising on quality. In particular, ÖMV was keen to overcome the overheating problems with plasma torch heads. "We were looking for a better method for welding titanium, which had been causing the torch heads on our old plasma welders to overheat," outlines Pehrson.

Solution

Linde recommended ARCLINE PAW® and ÖMV became the first company worldwide to pilot ARCLINE PAW in July 2019. "When Linde told us about a new technology that could make our plasma welding more reliable and less complex, we were all ears," says Pehrson.

ARCLINE PAW was specially designed for quality-critical applications and exotic materials such as high-alloyed steels and titanium. It is an end-to-end welding solution bundling Linde's innovative, quick-assembly plasma arc welding torch with process expertise and a wide range of shielding, trailing and purging gases to get plasma arc welders up and running in no time. It takes the complexity out of PAW welding by giving welders the insights they need to effortlessly optimize welding parameters and adapt them to different applications.

ARCLINE® PAW in action at ÖMV in Sweden. As part of the ARCLINE PAW pilot project, ÖMV has been able to make its plasma welding more reliable and less complex.

Benefits

With the ARCLINE® PAW pilot project, ÖMV has been able to increase the reliability, stability and durability of its welding processes. It has also resolved the overheating issue. "This new welding torch is far more durable, even with daily use," explains Roger Andersson, a welding operator at ÖMV. Whereas the nozzles on the old plasma welding torches rarely survived more than a few days, an ARCLINE PAW nozzle can last up to two months – and it never overheats. "Even when I do have to replace it, it's so easy – it's like changing a light bulb!" he continues.

Standout ARCLINE PAW features such as a one-click bayonet, rapid torch assembly and no need for electrode adjustments have all contributed to enhanced usability. "With the conventional plasma welding torch, we had to switch nozzles and adjust the settings for every new weld, but now we use the same ones for everything," enthuses Pehrson. "We save time and money, because we don't have to buy so many parts or waste time replacing them."

First-adopter advantage

Pehrson admits he had no hesitation in becoming the first company worldwide to pilot ARCLINE PAW. "We've been working closely with Linde and its team of WELDONOVA welding experts since the 1980s, so we have every confidence in their expertise," he summarizes. "These days, time is money, so why wouldn't I want to try something that's going to save both? In this increasingly competitive world, I believe the best way to get ahead is to be at the forefront of new technology."

Benefits at a glance

- Productivity gains due to rapid torch assembly and ease of use
- No retooling – same settings for every job
- Elimination of torch head overheating problems
- Cost savings thanks to longer-lasting nozzles
- Competitive advantage through latest welding technologies