

A large, semi-transparent teal graphic overlay is positioned in the lower-left and bottom-center of the page. It features a white technical drawing of a glass bottle neck and shoulder, with various dimension lines and numerical values such as 1380, 1630, 10.5, 18.5, 30.8, and 41.8. The drawing is partially obscured by the text and other elements.

Noelle + von Campe glass bottle manufacturing success story

Region: Boffzen, Germany

Sector: Glass bottle manufacturing

Benefit: 27% in power savings

Noelle + von Campe are specialists in the production of high-quality glass packaging. They have been a trusted supplier for both industrial filling companies and for small family-run businesses for more than 150 years.

They were among the first to introduce new types of glass furnaces. They export to more than 35 countries and employ 500 dedicated staff members. They have a product range of 720 different items and make 650 million jars per year.

Challenge:

Noelle + von Campe were looking for a vacuum solution that offered control and stability whilst reducing their energy consumption and production effort. Production conditions in the glass industry are energy-intensive and efficient technologies along the entire value chain are particularly in demand. With an output of 650 million jars per year, the right vacuum system is an important element for the efficiency of the entire plant for Noelle + von Campe. While the same production output is possible with compressed air, it would require five times the air and energy to achieve the same result. Given these parameters, Noelle + von Campe were looking for a solutions partner with the application expertise and experience in supplying vacuum pumps to the glass industry with knowledge of the exact requirements of the market.

Solution:

Noelle + von Campe chose the energy-efficient Atlas Copco GHS 4600 VSD+ oil-sealed screw vacuum pump to ensure a stable and energy-efficient production line. Three GHS 4600 VSD+ vacuum pumps offer Noelle + von Campe more vacuum, more control and more stability for less energy consumption and less effort. The Atlas Copco GHS VSD+ series is one of the most energy-efficient oil-sealed vacuum pumps on the market. With its revolutionary VSD variable speed control, the GHS VSD+ pumps can be adapted precisely and quickly to the process requirement. Variable speed and the set point control offers optimum vacuum levels.



The Atlas Copco ES16 central controller can monitor and control multiple GHS VSD+ vacuum pumps simultaneously. The smart control system balances and optimizes the performance of all machines, reducing the overall energy consumption.

According to Atlas Copco sales engineer Oliver Heitjohann, further cost reductions are generated by the ES central control. *“The intelligent system coordinates the use of the vacuum pumps with each other – this saves even more costs, also for maintenance and electricity. A big advantage: the customers also achieve significantly faster amortization.”*

The Atlas Copco GHS VSD+ oil-sealed screw vacuum pump series helps not just in manufacturing Noelle + von Campe’s glass products but also in its production process. This is where Atlas Copco’s extensive experience in working with glass manufacturers pays off. That is why Atlas Copco also customized the piping of the vacuum pumps – providing an essential a one-stop solution for, from the main vacuum pump to the pump control and energy optimization and even the connection systems.

Outcome:

The reduced energy consumption isn’t the only advantage of the GHS VSD+ vacuum solution. The entire vacuum supply at Noelle + von Campe is now more stable than before. *“When we change tools or adapt our processes, for example, the new central vacuum system continues to reliably supply our entire production,”* reports Timo Scherf, the Head of Maintenance Plant 1 at Noelle + von Campe. *“This was an important factor for us, because the reliable, uninterrupted vacuum supply in turn has a direct effect on the quality of our end products. And when it comes to the quality of our jars and bottles, neither we nor our customers make any compromises.”*

The variable speed and the set point control of the GHS VSD+ series offers optimum vacuum levels and the vacuum pumps installed at Noelle + von Campe have saved around 27% in energy costs.

Atlas Copco

atlascopco.com/vacuum



To know more about the Atlas Copco GHS VSD+ series, scan the QR code