




Atlas Copco



## Atlas Copco vacuum pump improves productivity for packaging machines

**Region:** Italy

**Sector:** Food packaging

**Benefit:** Higher speeds and faster cycle times

As a leading developer for food packaging machines, our Italian customer has been designing and building vacuum packaging machines for decades, prominently for the food market. As a brand that values and focuses on packaging efficiency, quality and customer satisfaction – their standards for process excellence were high. Their recent goal was to increase the productivity and cycles times of their larger machines. With the climbing process demand and need for faster packaging capabilities, they partnered Atlas Copco Vacuum to make it possible.

## Challenge:

Our customer is known for designing and developing automatic vacuum food packaging systems. Depending on the needs, the systems were made for either small, medium and large productive amounts. Each system is created based on phase of production, interpreting the requests of each customer and offering the most suitable solutions for the production needs.

The concern arose for their big chamber packaging machines and the need for faster cycle times and vacuum speed. These systems needed a powerful vacuum pump to provide that higher level of vacuum capability needed to keep up with the packaging demand.

## Outcome:

The combination of our GHS VSD+ with their packaging machines delivered successful results, meeting our customer's process and production expectations.

Not only were they able to achieve better packaging speeds and cycle times, but they could also explore a new level of vacuum excellence and efficiency with our pump's Industry 4.0 capabilities. These features will help them optimize their energy consumption, increase their packaging capacity and streamline their pump control all at once, for years to come.

The success of our GHS VSD+ in their system also created the foundation for a fruitful, long-lasting partnership. Together, we hope to explore many more opportunities to improve the efficiency and quality of food packaging in the future.

## Overview of benefits:



**Faster cycle times**



**Better productivity**



**Energy efficiency**



**Easier system control**

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[atlas copco.com/vacuum](https://atlas copco.com/vacuum)

## Solution:

After analyzing their requirements, we suggested our GHS 1402 VSD+ oil-injected screw vacuum pump. Our Atlas Copco GHS VSD+ range of vacuum pumps are, in essence, made for high pumping speeds and reliability.

Equipped with a permanent magnet assisted synchronous reluctance motor for high efficiency at all speeds, it ensures overall superior performance of the complete vacuum pump. These new motors are oil-cooled, with oil lubricated bearings that ensure optimal cooling at any speed. So no matter how demanding the packaging process may get, our pump maintains its temperature and doesn't overheat.

The Variable Speed Drive (VSD) feature ensures automatic vacuum power adjustments. This means the pump adapts to process demand on its own, delivering only the needed power at any given moment. This reduces energy consumption and wastage to a significant degree.

The addition of the GHS VSD+ vacuum pumps to our customer's packaging machine allowed them to increase their packaging operations to 2 cycles/per minute. It effectively drove up cycle times and overall packaging productivity.

Our GHS VSD+ range of vacuum pumps also come with our intelligent HEX@™ controller. A device that offers quick and easy monitoring of parameters like pump operating status, vacuum levels, upcoming scheduled events etc. Unlike any other controller before it, the seamless connectivity of HEX@™ allows a user to control their system from anywhere, anytime – at the touch of the button.



GHS 1402 VSD+ oil-injected screw vacuum pump