

FILCOM Application Example – Medical Technology

KAESER AIRCENTER



Compressed air

Initial situation

In a dental laboratory, nothing runs without compressed air. From the simple air hand nozzle to modern CAD/CAM systems - a stable and safe compressed air supply is an indispensable component of success. Innovateeth Manufaktur - a name that is a neologism made up of "innovative", "teeth" and manufacture. Since 2020, Patrick Haas and Innovateeth Manufaktur have been focusing on two areas: On the one hand, state-of-the-art dental technology that uses the latest materials, manufacturing techniques and machines. On the other hand, on a manufactory operation in which highly specialised products are produced by hand. With the founding of the company in 2020, Patrick Haas decided to move further in the direction of a digital future and thus simplify the classic workflow from the 1970s and make it more effective. To keep up with the development towards digitalisation, the dental laboratory is equipped with the latest dental technology machines. With modern CAD/CAM milling and grinding machines, Patrick Haas and his team ensure reproducibility, accuracy and efficiency.

Solution statement

- Even though the first cut was not yet fail-safe, Patrick Haas has a complete compressed air station from KAESER that ensures that a wide range of applications can be used reliably and permanently.
- Based on a measurement and the machine manufacturer's specifications for the new 3D printers, FILCOM GmbH was able to offer a suitable complete solution in premium quality.
- A KAESER "AIRCENTER" compact compressed air system that is reliable and efficient, even in continuous operation, and requires little space.
- The heart of the system is an energy-saving SM 6-8 screw compressor.
- Another important efficiency component is the standard equipment of the system with the communication-capable Sigma Control 2 controller.

Customer value

- Thanks to the energy efficiency of the system, the purchase and installation is even rewarded by the Federal Office of Economics and Export Control (BAFA) with a maximum of 40 % funding. In this way, Innovateeth was able to stay within its tight budget and even undercut it.
- For FILCOM GmbH, support in the application process is a service that saves time and is very popular with customers.
- The left housing cover can be removed in a few easy steps, revealing the clearly arranged components. All maintenance points are thus easier to reach.
- When closed, the enclosure with its sound-absorbing lining ensures a pleasant, extremely quiet operating noise.
- In accordance with the "plug & work" principle, the AIRCENTER is immediately ready for use after connection to the power and compressed air supply.



Challenge

When an innovative and modern company looks at the energy efficiency and sustainability of its processes and facilities, it inevitably has to think about compressed air generation. An initial stocktaking revealed that there was enormous potential for savings here. The piston compressors that had been used since then no longer met the requirements of a dental technology company. While the blowing air and the grinders used were the main consumers of compressed air, today it is the 3D printers and CAD/CAM milling machines.

With the aim of optimising this situation with the use of a new compressed air station, the points and specifications that needed to be implemented were discussed in detail with Mr Haas in advance. The cornerstones of the objective were, of course, a clean and reliable compressed air supply with a small footprint. A system that absolutely meets the requirements and offers space for expansion.



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