

FILCOM application example – medical industry

KAESER i.Comp



Compressed air /
service

Initial situation

The demands on the most beautiful smile in the world are high. Harmony, individuality and naturalness set high standards for the perfect dental prosthesis. This is the focus of a customer of KAESER Kompressoren, a Bavarian dental laboratory. Perfectly functioning dentures are the calling card of many patients.

Compressed air plays a central role in dental laboratories, as it does in many other businesses. This is because it is used at a wide variety of points. Compressed air is used for blowing off and cleaning surfaces. Compressed air also powers various sandblasters, which are used at all workstations to blast off cement and investment material. There is also a need for compressed air at the dental turbine where surfaces are finished. Pressing and firing furnaces are also operated with compressed air.

Solution statement

- The customer chose a KAESER i.Comp 9 Tower T piston compressor to meet compressed air requirements with a small footprint. The machines cover a flow rate of up to 570 l/min and a pressure of up to 11 bar.
- The i.Comp 9 Tower T includes the compressor block, air receiver, refrigeration dryer and SIGMA CONTROL 2 internal control unit, all in a single space-saving housing and ready for connection.



Customer value

- The i.Comp Tower is very energy-efficient due to the speed-controlled motor and delivers exactly the amount of compressed air that is actually needed.
- As a result, the unit has a significantly better specific output than conventional piston compressors. This significantly reduces the laboratory's operating costs.
- The customer is therefore impressed by the compressed air availability, reliability and energy efficiency of the new KAESER piston compressor.
- A subsidy of 30 percent on the purchase price was obtained, as the requirements for a BAFA subsidy were met. The reciprocating compressor is classified as a particularly energy-efficient investment.



Challenge

CAD/CAM milling machines represent an important area of application for compressed air. CAD stands for „computer aided design“ and CAM for „computer aided manufacturing“. In modern dentistry, it refers to a computer-assisted high-tech process used for designing and manufacturing dental restorations such as crowns, bridges, implant prosthetics, abutments and long-term temporaries. Materials such as zirconia, ceramics, titanium, metal, metal alloys, all-ceramics and high-performance plastics are processed here. With its finger on the pulse, the customer opted for a new forward-looking technology.

Due to the acquisition of the new milling machine at the customer's site, the piston compressor from KAESER, which had already been in use for 20 years, was no longer large enough to meet the increased demand.



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