

Case Study

Metal-Technika relies on an F-Drive 37 screw compressor from ALMiG.

Metal-Technika produces laser and plasma cutting equipment for metal and reliable equipment for woodworking in the furniture industry. To ensure continuity of production and meet the strict requirements for the quality of compressed air that controls the CNC machines, the ALMiG F-Drive 37 screw compressor with the ALM-525 refrigerant dryer and the ALM-CD 110 adsorption dryer were installed in the new hall, which was commissioned in 2021. The compressor room is also equipped with a system for discharging warm air into the production halls to reduce heating costs during the winter season. The company has extensive experience in the machine building industry and took a very professional approach to selecting a supplier. Being creative in the production of its machines and dealing with global suppliers of control systems and drives, it made sure that the new compressor had modern energy-saving electric motors, offered high quality workmanship and was reliable in operation.

FACTS

- » **Customer:** Metal-Technika, Polen
- » **Application:** Shot blasting machine, pneumatic tools
- » **Requirement:** Energy saving and replacement of an existing plant
- » **Solution:** F-Drive 37 screw compressors



THE GOAL

The main goal of the investor was to use a compressed air solution with high operational reliability and high energy efficiency. Any interruption in production means not being able to meet the tight production schedules, which was one of the main requirements for Metal-Technika to invest in a new production hall and increase production. In addition, increased electricity prices are forcing manufacturers to reduce production costs in all areas of technical media, including compressed air generation.



THE SOLUTION

F-Drive 37 screw compressor with direct drive, speed control and high-efficiency permanent magnet motor // Thanks to the use of the F-Drive 37 compressor, all the objectives set in the project were achieved. The high air throughput per kWh of electricity supplied means that the cost of compressed air generation has fallen significantly. Further advantages are the small space requirement and the adaptation of the compressor to the current compressed air demand (speed control). The compressor has now completed 3,500 operating hours without any failures being reported during operation. Thanks to the reliable compressed air supply from the F-Drive 37, there has not been a single day of production downtime, which was one of the most important goals of the investor.



THE SUCCESS

High energy savings and a reliable compressed air supply // Thanks to the use of advanced solutions in ALMiG's F-Drive and thanks to the special AirCare 5-year warranty program, the customer received production comfort combined with energy savings, which increases its competitiveness in the machines produced in the plant. By diverting warm air into the production halls, operators can additionally save up to €10,000* in heating costs. Metal-Technika's vision is to produce machines of the highest quality that meet the high demands of its customers. Thanks to the F-Drive 37 compressor on site, we can contribute to this vision.

* At a heating oil price of 1,50 €/liter and 2.000 hours heat utilization/year