

Case Study

Bauer-Walser AG uses the compressed air from ALMiG's VARIABLE XP 30 to generate nitrogen for precious metal processing.

Bauer-Walser AG manufactures semi-finished precious metal products for the production of high-quality jewelry and watches.

To prevent the precious metals from oxidizing in the production process, nitrogen is used. Compressed air is needed to generate nitrogen - this is supplied by the highly efficient, speed-controlled VARIABLE XP 30 screw compressor.

FACTS

- » **Customer** Bauer-Walser AG
- » **Application:** Compressed air for the production of nitrogen
- » **Requirement:** Nitrogen production from compressed air
- » **Solution:** VARIABLE XP 30 screw compressors



THE GOAL

In-house nitrogen production to reduce costs //

- Reduction of operating costs
- Increase of operational reliability
- Independence from gas suppliers



THE SOLUTION

Compressor with direct drive and speed control VARIABLE XP 30 //

Because of the good experience with the four ALMiG compressors already in use at Bauer-Walser, which run reliably and dependably, as well as the proximity to the plant in Köngen, the reliable customer service and the optimal price-performance ratio, the operators have again decided in favor of ALMiG. A needs analysis showed that ALMiG's VARIABLE XP 30 variable speed screw compressor was the optimal solution. For the suitable compressed air quality class 1:4:1 according to DIN 8573 / 1, a refrigeration dryer ALM 500 with built-in filters is used.



THE SUCCESS

Reliable and high-quality nitrogen production //

Nitrogen is like fuel at the gas station - prices are rising. Therefore, nitrogen self-production from compressed air was considered in order to be independent of the market and the ability to deliver. Another reason was that in the winter months, trucks carrying hazardous materials, including nitrogen, are often not allowed to drive. If the nitrogen supply was then insufficient, production would have to be curtailed. Therefore, the VARIABLE XP 30 was installed with compressed air preparation class 1-4-1 according to ISO 8573/1. This compressed air quality is required by the then downstream nitrogen generator from the supplier SK Engineering. This means that nitrogen of class 2.5 (equivalent to 99.5% pure nitrogen) is now produced on site. A compressed air supply line was also laid from the plant air for maintenance work. Bauer-Walser monitors this meticulously and has installed additional control measuring equipment to ensure that the production process continues to function optimally and that the precious metals do not oxidize.