KAESER Kompressoren
Carbon for aluminium

Screw compressors

Initial situation

The customer of KAESER is a producer of anodes. These are high-quality carbon blocks that are needed for the production of aluminium. They are used in the electrolysis process. In these aluminium smelters, electricity is passed through the anodes, splitting aluminium into molten form. This is called the Hall-Heroult process. Aluminium is primarily produced in aluminium smelters, where the anodes find their application.

Solution statement

- For this project, KAESER opted for three compressed air stations, each with four compressors.
- The compressed air stations are each housed in containers.
- Based on the KAESER contracting model, the customer is only billed for the compressed air.

Customer value

- Thanks to a contracting agreement, the user only pays for the compressed air
- No investment costs
- No capitalisation of the system in the balance sheet
- Compressed air costs are immediately tax-deductible as operating expenses
- No additional personnel resources required for operation and maintenance
- Continuous further development of the systems by KAESER
- The customer had no downtime due to the step-by-step implementation of the project, as no adjustments had to be made to the existing compressed air network.

Challenge

The customer has its production site directly at the seaport and is therefore very flexible and adaptable. Production takes place for a defined market according to continuous annual orders. Aluminium is a light metal that is very corrosion resistant. It is used for a variety of applications such as packaging, ladders, aircraft, window frames, etc. Although the production of aluminium requires a lot of energy, the light weight of this metal can actually contribute to lower energy consumption in the use phase. Therefore, the raw material quality must also constantly fit to ensure a constant manufacturing process. Safety and quality are paramount.

Compressed air has a key role to play here. Because without compressed air, nothing works here. Various process steps are all based on compressed air. From mass preparation to flue gas cleaning systems, as well as in final processing and, last but not least, in packaging and shipping. Here, pneumatically controlled systems are operated with compressed air.

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