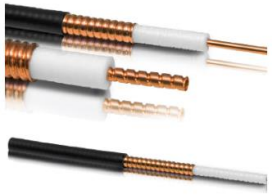
KAESER Kompressoren
Successful without limits

Screw compressors Control system &
Heat recovery
Compressed air preparation

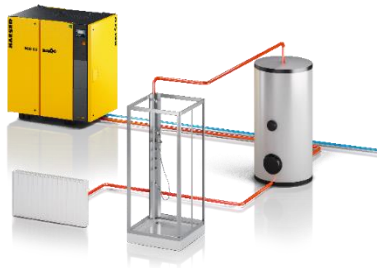
Initial situation

The customer of KAESER Kompressoren SE, based in the foothills of the Bavarian Alps, manufactures a wide range of standardized and customized interconnect solutions in high-frequency and fibre optic technology. The products are primarily used in medial electronics. In 2003, the company establishes a branch office in Hungary, which gradually expands the production area. Thus, the demand for compressed air and the associated compressed air station also grows continuously.



Challenge

The intensive growth of the company requires a greater coverage of the compressed air demand. In addition, the assembly lines also require vacuum, which was previously generated by so-called compressed air vacuum ejectors. In 2011, the production area was expanded due to a new CNC turned parts production and again rum requires the adaptation of the compressed air requirements. In 2014, the compressed air requirements were again adjusted because the production area was constantly expanded. In 2016, an additional expansion step followed with the leasing of another plant, which also required an adjustment of the existing compressed air supply.



Solution statement

- IIn the first step, the compressed air supply for the new assembly hall was ensured by installing three KAESER ASK 28 rotary screw compressors including compressed air preparation and condensate technology as well as a SIGMA AIR MANAGER 4.0 cross-machine control system.
- Detailed analysis and advice from KAESER led to the compressed air station being supplemented by a KAESER ASV 40 screw vacuum pump.
- Within a very short time, two 20-foot containers were commissioned at Plant 2, each equipped with three KAESER BSD 62 rotary screw compressors as well as a compressed air treatment and control system.
- Subsequent installation of heat recovery components on the compressors in Plant 1.
- Installation of a turnkey container station consisting of three BSD 83 screw compressors with compressed air preparation and cross-machine control in 2014.
- Installation of a total of 4 turnkey 20-foot containers in 2017, with two containers each containing three KAESER ASV 60 vacuum screw units, and the other two containers each equipped with three KAESER CSD 125 screw compressors.
- The final adaptation took place in 2018 with the installation of a container station equipped with a future-oriented speed-controlled KAESER CSDX 140 SFC screw compressor.

Customer value

- Reduction of costs for vacuum generation by 25 %.
- Significant cost savings through the installation of a heat recovery system for the compressors used. The waste heat from the compressors is used to heat service water, resulting in further cost savings.
- The use of KAESER compressed air stations meant that the components could be easily adapted.
- High reliability and cost efficiency of the plant

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