

## PROJECT REPORT

**CUSTOMER**

KSI – Klaus Stahl Industrie-  
lackierungen GmbH

**PROJECT**

Compressed air system solution  
for industrial coating systems

**BOGE PRODUCTS IN ACTION**

3 screw compressors (S 100, S 61-2,  
SF 100-2), 1 **airtelligence** provis  
master control unit



## WITH FLYING COLOURS!

### KSI reduces costs with BOGE

The medium-sized family business KSI – Klaus Stahl Industrielackierungen GmbH, based in Schifferstadt, Germany, is a specialist in industrial coating and painting and has become an established name both in Germany and far beyond. The company carries out contract coating orders in the form of CDP powder coating, liquid paint coating, pad printing and electro-phoretic painting of steel, galvanised steel and aluminium. In order to increase the reliability and efficiency of the compressed air supply, the company chose to work with BOGE.

After carrying out a precise analysis of the requirements, BOGE presented KSI with a complete system comprising an S 100 range and an S 61-2 compressor together with a frequency controlled SF 100-2 compressor. The combined action of these compressors is optimally coordinated by BOGE's **airtelligence** provis master controls. The overall configuration combined with a compressor that has frequency regulation makes it possible to adjust the compressor output flexibly to meet the current demand, thus ensuring maximum operating efficiency at all times.

And if this is not enough: as part of the optimisation process, the BOGE team was also able to eliminate existing leaks in the old system. In addition, the pressure was reduced from a maximum of 9.6bar to 8.5bar.

The heat recovery system that had already been in operation for some time was also carried forward consistently into the new system.

All of these measures combined resulted in a saving of 10,000kW per month, which at a price of 0.11 €/kW amounts to total annual savings of 13,200€ for KSI. This is a good example of just how quickly investment in a BOGE system is recouped!



**SF 100-2 oil-injected screw compressor  
with frequency control**

## PROJECT INFORMATION

**> THE CHALLENGE**

The design of a new overall system for the supply of compressed air was required for the coating plants at KSI. The system should operate reliably and exploit any potential for efficiency enhancement to the fullest extent.

**> THE BOGE SOLUTION**

After a precise analysis of the operating conditions, a tailor-made system solution was developed which would make significant savings in the production of compressed air.

**> THE RESULT**

**The optimal harmonisation of all the components, the elimination of leaks in the old system and the reduction in pressure from 9.6 to 8.5 bar resulted in annual cost savings of more than 13,000 €.**

More information about KSI –  
Klaus Stahl Industrielackierungen GmbH:  
[www.stahlgmbh.com](http://www.stahlgmbh.com)