

## CASE STUDY

# AESSEAL® reduce their compressed air energy consumption by up to 37%

### Company: AESSEAL®

A global company, operating in more than 100 countries worldwide, AESSEAL® manufactures mechanical seals, seal support systems and bearing protectors for a wide range of industries. These are designed to stop leakage of fluids and gases whilst improving reliability and efficiency of pumps and rotating equipment.

### Project overview:

A brand new Atlas Copco GA55VSD+FF was supplied to replace four old compressors, offering significant cost and energy savings.

The project was at the AESSEAL® headquarters, a large site in Rotherham, South Yorkshire.

### What was needed:

The company was relying on four ageing compressors, however as a growing business AESSEAL® was concerned they would no longer provide efficiency, reliability, or adequate expansion capacity. This led AESSEAL® to asking Simm Engineering Group for some expert advice.

As Sustainability Officer Simon Sheaf explains: "AESSEAL® is an energy-conscious business with ISO 14001 and ISO 50001 certification for environmental and energy management. We're always looking for opportunities for continual improvement."

### What we did:

The four old compressors were replaced with a brand new Atlas Copco GA55VSD+FF. As a variable speed drive machine, this offers significant cost and energy savings.

Simm Engineering Group has also supplied a new air compressor and a second-hand backup machine at the company's Bradford site, along with pipe work installation, with further site visits planned for AESSEAL® at its other sites in the UK.



## Key benefits:



A major benefit was the environmental impact. A reduction of energy consumption between 20% and 40% was key.



Significant reduction in running costs, saving up to £14,864.50 a year.



Increased efficiency and reliability



Reduction in service requirements meaning there is a lower chance of downtime. Changing from four machines to just one also helps with this.



Significantly quieter operation of the new compressor. At the Bradford site, this has allowed the compressor to be relocated to the shop floor without the need for acoustic shielding.



The compressor is fitted with Atlas Copco's SmartLink system, allowing real-time identification of functional issues, improving performance and productivity.

## Why Simm Engineering Group?

As AESSEAL® was looking to change its compressed air supplier across a number of its UK sites, including its Head Office in Rotherham, it invited companies including Simm Engineering Group to meet with its management team David Montero (Business Assurance Manager), Lindsay Moore (Facilities Co-ordinator) and Simon Sheaf (Sustainability Officer).

They were all particularly impressed by the technical knowledge and experience offered by the Simm Engineering Group team.

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Our experience with Simm Engineering Group has been extremely positive. Andy and Alan are brilliant and working with them was very refreshing. They know compressed air, they understand the equipment they supply and are technically knowledgeable, which has led to them giving us great advice. We will definitely be happy to continue working with Simm.”

*Simon Sheaf, Sustainability Officer, AESSEAL®*

