

Expertise: Production Development

Industries: Manufacturing, Industrial Production

Collaboration and engineering excellence led to major savings for global leader in filtration



Overview of the partnership

Partners:	A world-leading filter manufacturer and Consat Engineering.
Objective:	To automate and optimise filter production in order to reduce production vulnerabilities, lower costs, and maintain high quality.

A leading filter manufacturer faced a challenge – combining stringent quality requirements with an efficient and stable production process. The solution required innovative thinking and technical precision, marking the beginning of a successful collaboration with Consat Engineering.

Challenge

The manufacturer needed to streamline production and address labour shortages while maintaining zero-defect requirements and a production rate of one filter every six seconds.

Solution

Consat Engineering developed an automated filter production machine that improved efficiency and reduced costs.

A world-leading manufacturer of air filtration solutions faces the ongoing challenge of producing millions of filters annually with high efficiency and quality. To meet these demands, the company partnered with Consat Engineering to automate its filter production.

A pragmatic partner

The collaboration between the filter manufacturer and Consat was characterised by a pragmatic approach and a strong focus on delivering a reliable solution. A combination of teamwork, technical expertise, and innovative thinking has been key to the project's success.

The challenge

The air filtration manufacturer needed to optimise production and reduce vulnerability caused by labour shortages. Their production volume and zero-defect requirements made it essential to find an advanced solution – a new filter needed to be produced every six seconds.

Consat Engineering was brought in to design, build, and deliver an automated filter production machine. This project required both technical expertise and innovative thinking from Consat's cross-functional engineering team.

The solution

Consat Engineering developed and implemented a high-tech machine responsible for the manufacturer's filter production. This automation not only resulted in significant cost savings but also created a more efficient production chain.



Key outcomes

- The machine produces a filter every six seconds.
- The manufacturer has achieved significant cost savings.
- Labour-related vulnerabilities have been reduced.
- The production chain has become more efficient.

“When it comes to complex projects like building a machine of this calibre, it all comes down to the people. Consat is a pure engineering firm with personnel possessing exceptionally high expertise”

Henrik Grahn, Consat Engineering, responsible for Consat’s project operations in Stockholm

Summary

- The manufacturer aimed to optimise production, address labour shortages, and maintain high quality and quantity requirements.
- Consat Engineering was engaged to develop an advanced and automated production machine.
- The project has contributed to a more stable, cost-effective, and sustainable production chain for the manufacturer.

The result

The machine developed by Consat has revolutionised filter production. With the ability to produce a new filter every six seconds, the manufacturer has not only achieved significant cost savings but also reduced vulnerabilities related to staffing.

“An innovative approach runs through our organisation, and it’s this mindset, combined with the in-house expertise we possess, that has led to the development of this machine,” says Henrik.

Value-driven innovations

Consat Engineering developed and implemented an advanced automation machine that has transformed filter production, enabling the creation of a new filter every six seconds. Through the use of this automated system, the manufacturer has been able to realise significant cost savings and improve production efficiency.

Contact us

Want to explore how Consat Engineering can support your organisation with similar technical challenges? Contact us today to discuss your needs and opportunities for a value-driven collaboration.