



25 July 2023

Ref.: L001-MODENA-SME-CSS-01

CUSTOMER SUCCESS STORY: VAULT PROFESSIONAL

SME's Design & Engineering Department Optimisation with Autodesk Software

Customer Challenge

Specialist Mechanical Engineers (SME) as a leading South African specialist manufacturing company, have been providing custom advanced HVAC and turnkey mechanical systems for use in adverse environmental conditions within the Railway, Defence, Mining and Industrial Sectors for the past 3 decades. SME expanded its facilities/ footprint into Europe as it is competing internationally. SME specializes in designing, developing and manufacturing complex products in-house. By having an ISO 9001 certification, we pride ourselves on ensuring that quality, reliability and timeous delivery are a priority.

From significant business expansion and growth arose a need for a purpose-built Data Management System to support the team of Designers, Engineers and Project Managers, as well as to upskill internal resources with more Advanced Inventor Functionality. Upskilling our work staff also helps us distinguish ourselves by competing in an increasingly competitive global environment.

SME Goals

Centralise all engineering and project data into one platform, reducing duplication, and helping with a single source of truth, thereby ensuring effective collaboration amongst the design and engineering team and in turn improving overall efficiency. Furthermore, helping to protect IP and reduce productivity issues /limitations by way of improved data management protocols.

Solution

The solution for SME was to move from Autodesk Vault Basic to Autodesk Vault Professional which in the long term would be able to be customised to support specific workflow and be a central and secure source of truth for all Engineering Data. Furthermore, the solution included engaging in customised Autodesk Inventor training where the team learned more advanced functionality within Autodesk Inventor to improve workflows in the CAD design space, as an extension of the data management improvement.



Business Outcome

- IP security, in one secure location with adequate controls and management.
- Improved collaboration between various design disciplines and stakeholders.
- Improved Accuracy of Data and a single source of the truth.
- Improved overall efficiency, thereby driving improved productivity by retrieving and disseminating accurate design and engineering data.

Conclusion

Modena OneSolve is our Autodesk Partner of choice due to their transparent approach, with the support of their director included in assisting us in articulating the various licensing models, the positive impact it would potentially have on our business, and further the skills and capabilities of the technical team. This resulted in having Autodesk Vault Professional and Inventor work better for us than previously, through proper training and implementation as recommended by Tanya Modena and her team.

Project Summary

Delivery Date

December 2022 – June 2023

Project Duration

7 Months – and ongoing

Autodesk

Product Design & Manufacturing Collection
Vault Professional

Services Provided:

- Business process analysis – pre-training and implementation recommendations.
- Onsite customised Inventor training.
- Onsite Autodesk software installation and server setup.
- Detailed and knowledgeable guidance on the best solution for our business needs.
- Onsite Vault Professional training.

A handwritten signature in black ink, appearing to read 'Etienne Roux', with several horizontal lines drawn over it.

Etienne Roux

SME – Engineering Development Department

Web: www.specmech.co.za