

Cutting Design Copy Time by 75% with Autodesk Vault



Case Study | BraunAbility

Mid-West Instrument partnered with Tata Technologies to centralize engineering data and dramatically reduce the time required to reuse existing designs.

The Challenge

Mid-West Instrument, a leading U.S. designer and manufacturer of differential pressure gauges and switches, faced a common engineering challenge: managing a rapidly growing volume of digital design assets.

Prior to implementing Autodesk Vault, CAD files were stored across multiple directories, making it difficult for engineers to locate the correct version of drawings. A core business workflow — copying an existing design to create a new product—was especially time-consuming. Engineers had to manually copy files, move them into new folders, rename them, and ensure all file references remained correctly linked.

This labor-intensive process slowed design reuse, increased the risk of errors, and consumed valuable engineering time that could otherwise be spent on innovation and product development.

The Company

Mid-West Instrument is a leading U.S. manufacturer of differential pressure gauges and switches. With a long history of engineering precision products, the company relies heavily on accurate documentation, controlled data, and efficient workflows to support product development and manufacturing.

For more than 15 years, Mid-West Instrument has partnered with Tata Technologies to support their engineering and data management initiatives.