

YOUNG INDUSTRIES, INC.

IMPROVING MATERIAL HANDLING MACHINERY DEVELOPMENT WITH DRAFTSIGHT ENTERPRISE



Young Industries relies on DraftSight design software to perform 2D-related tasks during the development of its custom-designed material handling systems, including modification of legacy drawings, creation of simple layouts or sketches, and development of P&ID (piping and instrumentation diagrams).

Challenge:

Optimize use of 2D and 3D design tools to boost productivity and advance development of custom material handling systems.

Solution:

Add DraftSight Enterprise 2D design solutions to the company's existing SOLIDWORKS 3D applications platform.

Benefits:

- Accelerated drawing, layout, and P&ID development
- Simplified handling of 2D legacy design data
- Integrated 2D data within PDM system
- Resolved 2D data software/hardware issues

Young Industries, Inc. is a manufacturer of custom-designed equipment for handling dry bulk materials in the chemical, petrochemical, ceramics, and coatings industries. The company has been manufacturing conveying systems and related components since 1947 and holds many patents for problem-solving equipment. Young Industries is certified by ASME (American Society of Mechanical Engineers) to manufacture pressure vessels as set forth by 'U,' 'UM,' and 'R' regulations. The engineering staff is constantly evaluating better methods to develop, design, and manufacture equipment to solve customer needs.

An early adopter of 3D for developing engineered-to-order systems for its clients, Young Industries has utilized the SOLIDWORKS® 3D applications platform for the past two decades, including SOLIDWORKS Professional design, SOLIDWORKS Simulation Professional analysis, and SOLIDWORKS PDM Professional product data management software. Although the majority of Young Industries' design and engineering work is done in 3D using SOLIDWORKS software, including all new designs, the company still has needs that are better addressed with 2D tools, for which the company had, until recently, utilized MountainTop® 2D design software.

“DraftSight provides greater flexibility in licensing and directly integrates with our SOLIDWORKS PDM Professional product data management system.”

— J. Tyler Thompson, Director of Information Technology

“There are certain tasks—modifying legacy drawings, creating simple layouts or sketches, or developing P&ID (piping and instrumentation diagrams)—that we consider ‘quick and dirty’, for which it’s faster and easier to use 2D,” explains Engineer Ryan Vandine. “We began using SOLIDWORKS 3D in the late 1990s, but continued running MountainTop 2D in conjunction with SOLIDWORKS until we ran into issues.”

According to Director of Information Technology J. Tyler Thompson, Young Industries decided to seek a new 2D design solution to replace MountainTop, which ran on a UNIX terminal server, after encountering both hardware and software failures. “We simply ran out of time with MountainTop and decided to look for another 2D design solution,” Thompson recalls.

“With DraftSight, we can manipulate past projects and our design library of P&ID symbols to save time and effort. In short, DraftSight gives us greater flexibility to work with 2D file formats and design entities more quickly and easily.”

— Ryan Vandine, Engineer

After evaluating available 2D design packages—including Solid Edge® 2D, AutoCAD® LT, and AutoCAD Mechanical Desktop™—Young Industries acquired Dassault Systèmes' DraftSight® Enterprise 2D design solution. The company chose DraftSight Enterprise because it is easier to maintain and support, includes the features the company needs at a better price, and is the most compatible with the company's SOLIDWORKS design environment. “DraftSight provides greater flexibility in licensing and directly integrates with our SOLIDWORKS PDM Professional product data management system,” Thompson says.

USING 2D WHEN IT MAKES SENSE SAVES TIME

In implementing DraftSight Enterprise, Young Industries is providing its engineers with the most suitable solutions for specific tasks. Although all of the large assembly design of the company's material handling systems is done in SOLIDWORKS, there are other tasks for which 2D is preferred, such as bringing in DWG/DXF files from customers. “As long as the customer files that we're dealing with aren't 3D, it's much easier to work with them in DraftSight,” Vandine stresses.

"DraftSight has simplified the process," Vandine continues. "For example, on a project for which we merely need minor modifications to a MountainTop drawing, we bring the drawing into DraftSight as a DXF and can make the change quickly and easily. That takes about 15 minutes in DraftSight versus four days of work remodeling the old drawing in SOLIDWORKS."

"Anytime that we can eliminate the translation from 2D to 3D, we save time and effort," adds Sales Representative Dick Amb. "Where it makes sense, we want to leverage DraftSight."

MANAGING LEGACY DATA, LIBRARIES, AND PROPOSAL DEVELOPMENT

With DraftSight Enterprise, Young Industries can more effectively manage its trove of 2D legacy data and library of 2D design entities, both of which contribute to accelerating proposal development. "When you think about our 2D legacy drawings, it's like we have a whole history of Lego® pieces out of the box that we can plug in and build stuff," Vandine explains.

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INTEGRATING 2D WITH PDM, MINIMIZING TRAINING REQUIREMENTS

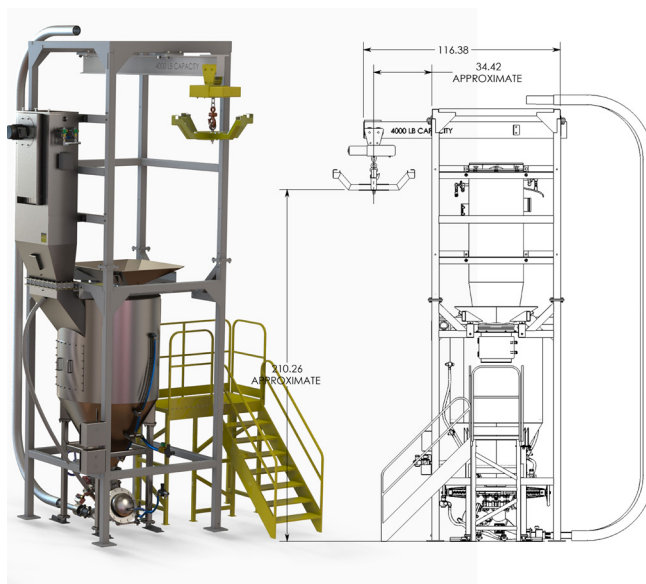
The move from MountainTop to DraftSight Enterprise has also improved the company's drawing management function because DraftSight is fully compatible with the SOLIDWORKS Professional PDM system. "The ability to use DraftSight to integrate our drawings into our PDM system, which we couldn't do with MountainTop, is an important advantage," Vandine points out.

"Because DraftSight is similar to AutoCAD, which most of our engineers know, our training requirements are less," Thompson says. "The software is so intuitive that an engineer can learn it in a day or two versus a couple weeks of training. In all areas, DraftSight Enterprise is a vast improvement over MountainTop software."

Young Industries, Inc.
VAR: DesignPoint, Lancaster, PA, USA

Headquarters: 16 Painter Street
Muncy, PA 17756
USA
Phone: +1 570 546 3165

For more information
www.younginds.com
www.draftsight.com



By using DraftSight software for 2D tasks, such as creating P&ID diagrams, and SOLIDWORKS for 3D needs, such as large assembly design, Young Industries is maximizing design productivity.

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