

Creo Automation in an ETO Environment

Bunting doubles throughput, standardizes designs, and accelerates engineer onboarding

The Client: Bunting Magnetics

Bunting provides cutting-edge magnetic technology for many industries, from food processing to mining. Their wide range of equipment features magnetic separation products, metal detection devices, material handling conveyors, printing cylinders, custom magnets and magnetic assemblies, in-stock neodymium magnets, and more.

Bunting provides custom designed products that are perfectly suited to a client's application needs and fit seamlessly into their existing facility.

The Challenge: Creo Automation in an ETO Environment



Bunting's CAD design work is varied and almost always Engineered-to-Order. Machinery must often fit into an existing footprint, or be retrofitted into existing equipment. In the past, designers re-used older designs on an ad hoc basis,

which led to inconsistency, as it was difficult to control updated parts.

The Solution: SmartAssembly for Creo Parametric

SmartAssembly is a process capture tool that allows users to focus on the design process, instead of repetitive and tedious design tasks. By eliminating non-value-added engineering work, Creo Parametric automation allows engineering to better utilize design efforts.

SmartAssembly allows companies to complete customer requirements faster through increased design agility, automatically generating Creo Parametric deliverables (model files, BOMs, drawings, DXF, route sheets, manufacturing data, etc.), regardless of the methodology used in Creo.

SmartAssembly can automatically drive configurations from Windchill and ERP systems such as Oracle and SAP to engineering deliverables in Creo Parametric.

In addition, it builds parts on the fly following the same methodologies by leveraging design rules.

The Results: Standardization via SmartAssembly Library

Bunting partnered with SIGMAXIM to create a library of standard parts. Matt Anderson, Engineering Manager and leader of the automation effort, discussed how automation benefits a custom engineering environment.

INDUSTRY

Magnetic Technology

CHALLENGES

- Engineer-to-Order environment with unique requirements
- Difficulty reusing and updating older designs consistently
- Lack of standardization across custom products
- Slow design cycles due to manual modeling and documentation

SOLUTION

SIGMAXIM SmartAssembly

BENEFITS

- Able to design complete ETO products in a fraction of the time
- Double the engineering output without a significant increase in engineering.
- New hires come up to speed faster and are more productive
- Increased design consistency

Matt explained, "By using automation to create a standard parts library, an engineer can automatically build a component 90%-95% to completion and easily make the necessary changes, because the automation gives us a clean model." Library items are configured together to build conveyors, hoppers and separation equipment.



Today, their Creo users can interactively design complete

Engineered-to-Order products in a fraction of the time. More importantly, manufacturing can trust engineering to use standard parts which incorporate the best practices of Bunting.

Additionally, SmartAssembly applications are easy to update if there is a change to a standard or part.

Doubled Engineering Output Without Increasing Headcount

Many companies struggle to meet custom orders while keeping up with engineering turnover. With SIGMAXIM's Creo automation, this has become less of a concern for Bunting.

Matt Anderson notes, "Engineering was able to double the output without a significant increase in engineering. New engineering hires are more productive using SIGMAXIM's Creo automation."

The Results: Long Term Success

Bunting has successfully used SmartAssembly since 2011, and their automation has worked consistently through multiple upgrades of Creo.

SIGMAXIM has both completed consulting projects to deliver automation solutions, as well as conducted training sessions to empower Bunting to build automations on their own. Bunting relies on SIGMAXIM to guide their process and give solutions to their unique Creo needs.

Gaining Momentum

Bunting engineers who are trained in SmartAssembly have expanded their automation capabilities and existing libraries.

Matt Anderson concludes, "We want to dedicate a team to developing SmartAssembly applications to include more product lines."

The benefits of automation have allowed our company to invest in other areas. And all of this also benefits our Bunting customers".

“Engineering was able to double the output without a significant increase in engineering. New hires are more productive using SIGMAXIM's Creo automation

Matt Anderson
Engineering Manager
Bunting

ABOUT SIGMAXIM

SIGMAXIM has been the leading global expert in Creo automation solutions for over 20 years. We partner with companies of all sizes to deliver low risk, efficient automation solutions for both standardization and product configuration initiatives.

CONTACT US

Learn how SIGMAXIM SmartAssembly can automate your ETO products and transform your Creo design process.

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