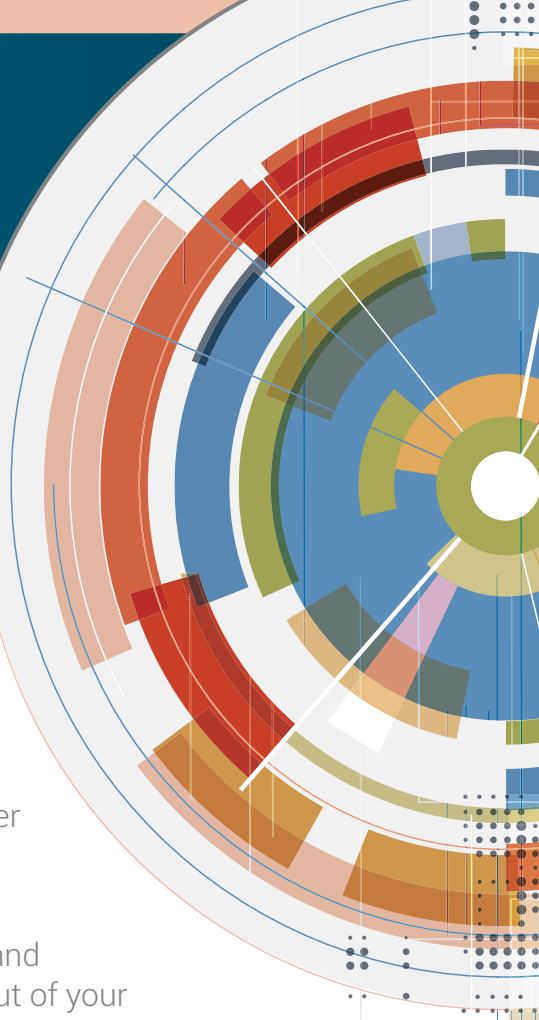
APPLIED
ENGINEERING • TECHNOLOGY

We Fit Your Design Software Challenges

Applied Engineering's talent, technology and adaptability will help you conquer your challenges.



Create

Design
Create digital prototypes, complete with 3D models and 2D drawings, to reduce the number of physical prototypes, get to market faster, and lower production costs.

Analyze
See how your design react to different forces, pressures, temperatures and accelerations before it's built. Reduce product failures and drive costs out of your design due to over-engineering.

Visualize
Use visualization to help communicate your designs, provide context for a product, collaborate with others to get feedback on your designs and plan for a finished product.

Automate

ilogic
Automate tasks and speed up the engineering process with rules-based designs.

Design to Order
Your designs change every time your company receives an order—or perhaps you must generate entirely new designs just to book an order in the first place. Applied can help you automate the order and bid process, streamline the design process and help your engineers be more productive.

Factory
Streamline the design to engineering process with integrated machining and nesting software that integrates directly with your 3D CAD files.

Organize

PLM
Manage all your engineering, design and manufacturing data from one platform, and integrate it with your ERP system for better decision making.

Vault
Global file access in real-time; store, manage and keep track of design revisions.

Collaborate
Share your work with other team members or work in tandem on the same project without overwriting each other's work.

Applied Engineering is the only firm with the talent and technology to fit your project, your process and your culture.

A Story of How We Fit

Cross-Tech Manufacturing

Issue

Cross-Tech Manufacturing located in Crosslake, MN is a nationwide leader in the manufacturing of hydraulic rotary brush cutters under the name Brush Wolf. Brush Wolf is a quality driven product that is known for its industry leading high standards in construction, reliability, and safety. Brush Wolf rotary brush cutters are designed to fit all skid-steers, mini-skids and excavators.

Cross-Tech is growing their business exponentially, and they recognize their customers expect a high level of professionalism when it comes to design and manufacturing. Conducting business with fortune 500 companies requires a level of professionalism when it comes to design and file sharing that they previously didn't have. Designing in 3D and sharing that model in multiple ways with both internal and external customers became a top priority. Cross-Tech also wanted to expand their product line, improve product costing, and find a product to integrate with their accounting software.

Solution

For product development, Applied Engineering recommended Autodesk Product Design Suite for 3D design simulation validation, Inventor Publisher for parts and assembly instruction and Autodesk Vault for documentation control.

SigmaNEST PowerPack is integrated within Autodesk Inventor for sheet metal design and flattening capabilities for use in manufacturing automation. By utilizing SigmaNEST SolidCAD they have enabled a seamless integration that allows Cross-Tech to produce "Nests" for their work orders within minutes versus hours.

As with all projects of this nature, we provided training, support, implementation and a timeline for the project. By working together with the Applied technical team, Cross-Tech Manufacturing was able to get up to speed with their new design to manufacturing solution in less than 6 months.

• Reduced Design to Production Time by 30% • Reduced Physical Prototype costs • Product to Market Faster
• Improved raw material yields by 15% • Improved Parts/Assembly Manuals • Full integration to MRP/ERP

Testimonial

Nick Freiberg, Manufacturing Manager at Cross-Tech: *"We are better organized, have a seamless integration to manufacturing, and the results we expect are being experienced the 'First Time' versus later since implementing Autodesk software and SigmaNEST."*

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