

Production and Testing

We create safe and efficient processes for transforming raw materials into finished products:

Our Manufacturing Capabilities include:

- Fabrication - Stick, Mig, Tig welding of all ferrous metals, alloys and stainless steels with AWS & ASME certification
- General Machining - all ferrous metals, alloys, plastics and stainless steel
- Certified Welders
- Assembly - Mechanical, Electrical, Pneumatic, Hydraulic, In Process Installations, Subassemblies, Special Applications, Testing and Final Checkout
- Overhead crane capacities of 5 and 10 ton with 6 meters underhook
- Quick turnaround time
- Prototyping and production
- 60,000 square foot facility

Testing a prototype or a developed design is as important as the rest of the design and manufacturing process. Thorough testing and evaluation can help ensure a product's viability, guarantees that it meets relevant regulations and specifications, and help reveal critical areas for improvement.

Our engineering team will assess your concept's ability to meet the given specifications, simulate a product's function with respect to the affected systems and develop and prototype accordingly.

Core Competencies

- Mechanical Systems
- Controls (Hydraulic, Electric, PLC)
- Hydraulic (Cylinders, Motors, Linear, Power Transmission)
- Structural (Steel, Aluminum, Castings, Plastics)
- Electrical (Control Level, Power Transmission)
- Power Train (Electric, Hydraulic, Hydrostatic, Pneumatic)
- Heat Transfer
- Prototyping
- Problem Solving



DESIGNWISE

Prototyping

We understand that prototypes are a key step in the development of a final solution or product. Our team will convert the design and specifications into a tangible, functioning final product.

Prototyping is a crucial factor in the design process for companies because the design assessment is made easier and better identifies the cost and issues of production.

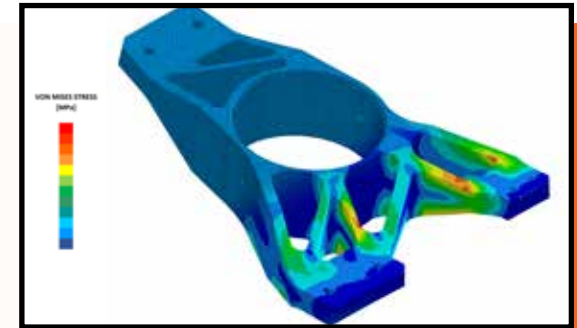


Analysis and Software

Our proficiency with state of the art software equips us to design, analyze and document your product needs.

We are licensed and proficient in the following software packages:

- AutoDesk AutoCAD®
- AutoCAD Electrical®
- AutoDesk Inventor®
- PTC Creo®
- PTC Mathcad®
- SolidWorks®
- SolidWorks Simulation® Premium
- Adobe Creative Cloud
- Microsoft® Office



Our SolidWorks Simulation® Premium Package Includes:

- Static
- Nonlinear
- Thermal
- Frequency
- Fatigue
- Drop Test
- Topology Study
- Design Study
- Linear Dynamic
- Pressure Vessel Design
- Motion Analysis

“Finite element analysis (FEA) is a valuable tool that allows us to confirm our design and calculations. It is especially useful in analyzing areas of stress concentration, which are difficult to analyze with traditional hand calculations.”

Product Engineer, Dale Wyble, PE

Projects



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Product
Concept



Product
Engineering



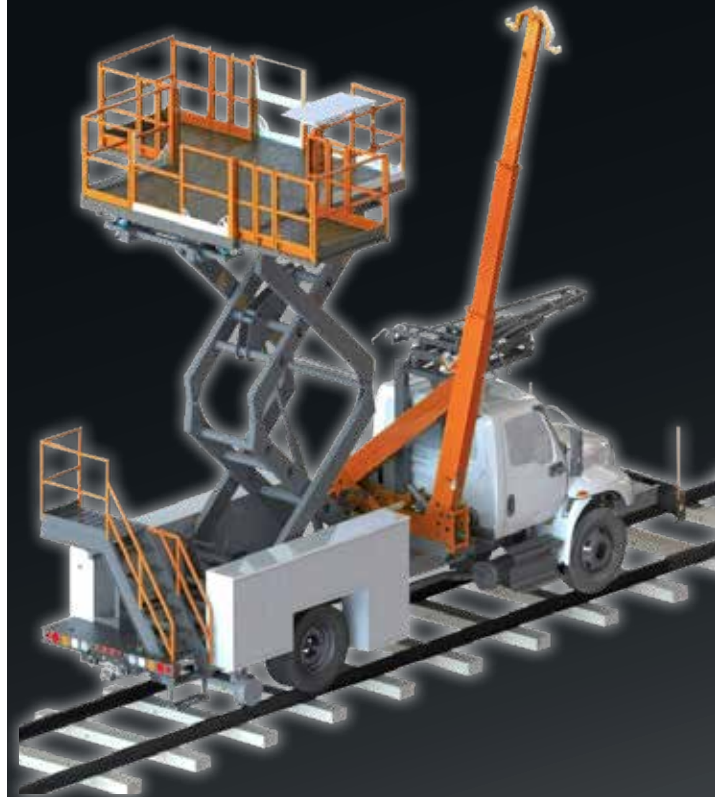
Product
Fabrication

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DesignWise

Where innovative concepts...



...and brilliant designs unite