



Woodworth Technical Services, LLC.

► 3D Printing



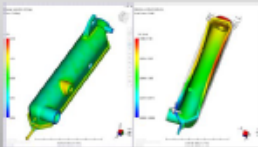
► 3D Scanning



► Engineering



► Simulation



Phone: (765) 360-9899

Email: info@woodworth-technical.com

Web: <http://www.woodworth-technical.com>

3D Printing



With new 3D printers that use additive process manufacturing we offer competitive alternatives to standard prototype offerings. State of the art equipment with .004" accuracy and durable materials changes the game for fixturing and soft manufacturing. Our equipment can print up to 8.5"x8.25"x26" parts. We batch print jobs to run daily in order to offer the quickest turnaround possible. We would be glad to take on your 3D Printing needs.

Available Materials

PLA - economy plastic, lots of color options

Filled PLA - available with wood or metal fillers

PVA - dissolveable in water, great for support

TPE - flexible, based from Buna N Rubber

PET - FDA compliant, strong yet flexible

nGen - FDA compliant, glossy, very durable

Nylon - several grades for tough applications

ABS - Great for high temperature applications

HIPS - similar to ABS but less prone to warpage

t-glase - Great optical material for lighting



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Nylon 230

Low temperature nylon with great durability and flexibility. Parts are easy to add color with clothing die. Can be printed with soluble support material.

Nylon Bridge

Similar to Nylon 230 with higher temperature resistance. Also has moderate chemical resistance. Great for printing gears, spacers, flanges, and general use parts.

Alloy 910

Robust nylon material with incredible strength. When printed with 100% infill it can achieve up to 8,100psi tensile strength. Great for high temperature and abrasive applications.

ABS

Good material for small parts that need high temperature characteristic. This material is also available in a variety of colors.

PLA

Economy material that is offered in several color options. Colors can be mixed or printed in multi-color. Can be filled with various metals or wood for visual effect.

nGen

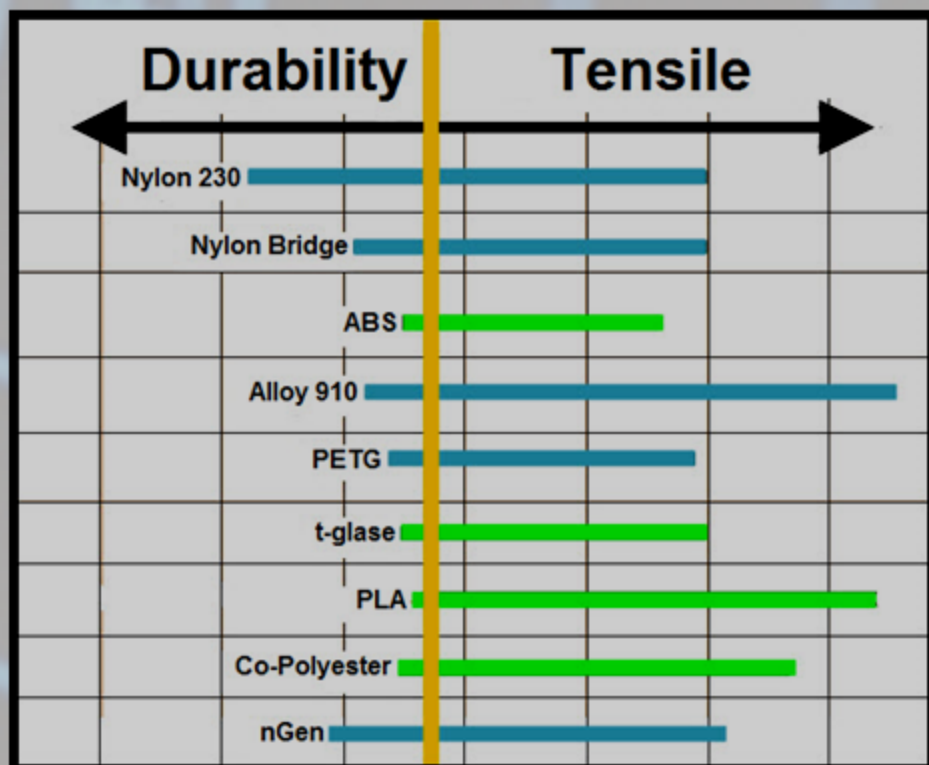
Great for parts that need exceptional clarity, gloss, and dimensional stability. This material offers robust toughness and temperature resistance. It is also FDA compliant.

PETG

Great for dishwasher and FDA applications. This material has very high layer adhesion, chemical resistance, and temperature capability.

t-glase

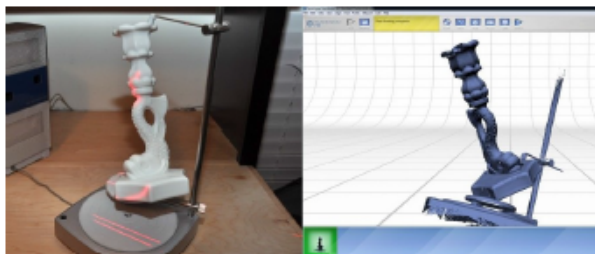
Has higher strength than ABS. Great aesthetics with enhanced optical properties. Has 100% bonding layer to layer and parts will never split apart or delaminate. Great for glass or light pipe applications. Available in clear and several colored translucents.



3D Scanning

Lots of Stuff. Lots of Sizes.

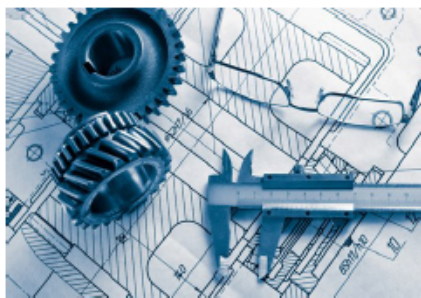
This scan technology and innovative instrument configuration let's us capture a remarkably diverse range of objects in a variety of materials and sizes. Parts found in many different industries can be captured. No Preset Size Limit. Since there's no bulky box to put your object inside, and it doesn't spin while it scans, we can work with larger objects. We assemble multiple views together to get objects bigger than the field size.



Surface Flexibility.

Many typical surfaces can be captured in their natural state. For difficult surfaces, easy-to-use markers let us prep the objects onsite. Powder pens put a light powder film on very shiny or dark surfaces, and paint pens let us coat even transparent or mirror surfaces for easy scanning. Our scanner delivers an unprecedented combination of power and quickness. At better than 0.005 inch accuracy, it rivals most modern systems.

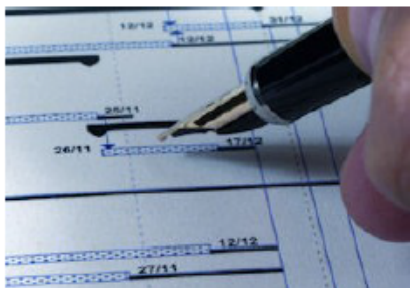
Engineering



Mechanical engineering and design is our forte. Robust designs and dependable

design verification is what you can rely on when you bring us onto your project. We use state of the art software to help move projects forward. We can offer most

native CAD data including but not limited to SolidWorks, Catia, Inventor, and



AutoCAD. We have engineers who are equipped to handle the details of your electrical projects as well. We are great at integrating all aspects of a project including cost estimating and project management.

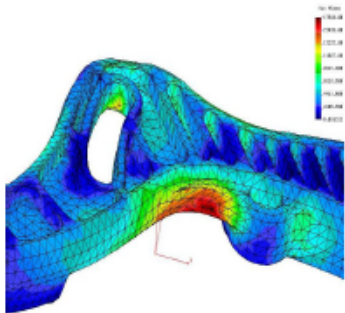
Let us help you get all your details in order



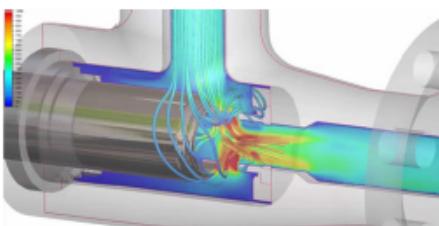
and keep your tasks on track all while ensuring you stay under budget.

Simulation

We can provide support for most computational analysis. We are very proficient at advanced finite element analysis, injection moldflow



analysis, and computational flow dynamics. With state of the art software, we can simulate multiple facets of projects and ensure that overlaps between systems are not overlooked. For instance, we can analyze a pressure vessel and input the



resultant pressure properties into a structural analysis to

ensure that the flow characteristics do not negatively impact the structural integrity of the vessel itself. Similarly, we can analyze the flow properties of a plastic injection molded part and import its grain properties to evaluate in tandem with its structural properties. We can provide detailed 3D reports for all simulations. This ensures that you get the most for your money when outsourcing simulation.

Who We Are

About Us

We are a collection of engineers, designers, technicians, project managers, and industry professionals. We are grouped together with vast previous experiences and ready to take any project—big or small—in design, simulation, prototype, or production state and add our own multidiscipline capabilities to help your projects to be successful.

Contact Us

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