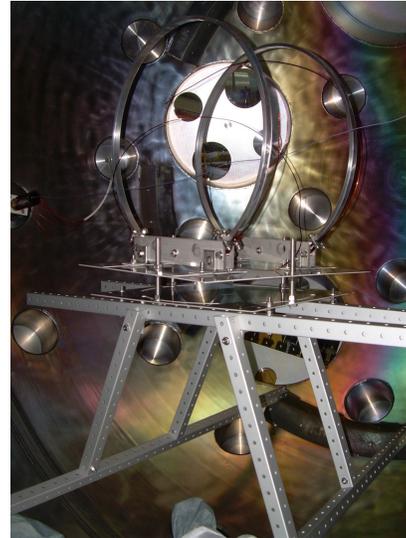




Magnetic Coils - now in 3D!

We are beginning to print our water-cooled coils using 3D printer technology



In the last 12 months we have designed and developed 15 separate custom magnetic field coils. We've built Helmholtz Coilsets, Maxwell Coilsets, and custom shaped Coilsets for use in Ultra High Vacuum or air. With radii varying from 5 cm to 5 feet, we have experience designing and fabricating coils for a wide variety of needs.

Do you need a custom magnetic coil for your lab or experiment? [Chat with our engineers](#) and we'll work with you to find a cost-effective design.

[SEE MORE COILS ON OUR WEBSITE](#)

Additive manufacturing is changing how we work

Customers are interested in cooling channels built directly into the copper coil forms, which has forced us to rapidly prototype several designs. Water cooling allows for longer duty cycles, or even continuous usage. Mostly the designs have been water-cut, milled and welded, but now through partnering with other organizations we are able to 3D print metal coil forms onto which turns are wound, with cooling channels built in.

Using 3D Printing can cut both costs and turnaround time for these projects. Customers who may have had to forgo water-cooling because of cost concerns are now able to run their experiments longer without spending too much more.

Our customers are happy

“Woodruff Scientific designed and manufactured an in-vacuum Helmholtz coil and mounting structure to our specifications. We will be using the coils to generate an applied magnetic field for basic plasma physics and fusion-energy-science related experiments. Simon and his team were highly responsive to our needs and remained engaged and helpful even after the coils were delivered. Thank you very much!”

Dr. Scott Hsu, P 24 Plasma Physics Group, Los Alamos National Laboratory

[READ MORE ON OUR WEBSITE](#)



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