



GE Additive

## Print Services

### Design to Print

Designing for additive allows organizations to take advantage of additive technology. However, those new to additive design, quickly realize that coaching and guidance through the process saves time and costs.

GE Additive's Design to Print solution is ideal, for those seeking help in additive design. Our experienced design engineers will provide guidance around the additive design process, then follow the design through the printing process. They gather feedback, adjust the design as needed, and print the part again. If needed, they can help manage the post-processing and inspection of the part on equipment that is tailored specifically for additive manufacturing—so your final part meets product requirements.

#### The benefits:

- Iterative part development which reduces overall cycle time
- Better understand costs prior to making a capital investment
- Reduce risk of failure and costs in the development of printed parts
- Design assemblies that may consolidate several parts resulting in improved performance and reduced costs

NOTE: Our services for applications in the healthcare industry may be limited and will require additional review.

Learn more about GE Additive's Print Services at  
[ge.com/additive/printservices](https://www.ge.com/additive/printservices)

## DESIGN TRAINING AND PRINT STRATEGIES

New technologies often mean new challenges. The knowledge gained for traditional manufacturing processes does not necessarily carry-over into additive manufacturing. Considerations such as material overhangs, support structures, build orientation, nesting, trapped material, thermal gradients and print parameters all require a new base of knowledge.

Our AddWorks™ team can help you through your first additive designs. From design training to design guidance, GE Additive's Print Services can help ensure your printed parts are successful.

### ADDWORKS DESIGN TRAINING

We offer a variety of training courses to help train on additive design.

To learn more about our Essentials of Additive Design training visit [ge.com/additive/course-catalog](https://ge.com/additive/course-catalog)

### CUSTOMER SUCCESS STORY

When Callaway Golf needed help with additive design, they reached out to the GE Additive's AddWorks team for expert advice on designing for additive.

See the full story here:

[https://youtu.be/Q0HXe9I\\_J1w](https://youtu.be/Q0HXe9I_J1w)



Callaway  
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## DESIGN INNOVATION

Additive technology allows you to print parts with complex shapes, geometries and stringent material properties. This provides for innovation and performance enhancements in the development of new products. In addition, the consolidation of several parts into one additive manufactured part, can provide enormous benefits – from better performance to lowering total costs. However, these tend to be some of the most difficult parts to design and print.

### We can help.

Our team has deep experience in designing and printing complex geometries, support structures and parts that have strict material requirements. We will help ensure that the appropriate design elements are included for proper part orientation, material properties and a successful additively printed part.

## DISRUPTIVE DESIGN

Work with the GE Additive's AddWorks team for design, engineering and materials assistance, and gain access to GE design examples with a quick turnaround time on parts designverse in-house creation.

## CUSTOMER SUCCESS STORY

HRE Wheels partnered with us to reinvent the premium wheel industry. With AddWorks consulting, HRE successfully designed the first titanium, 3D printed wheel.

See the full story here:

<https://youtu.be/9F2FMizXw5M>



## PRINTING AND POST-PROCESSING EXPERTISE

Printing complex additive parts requires the right experience and equipment. GE Additive's Print Services team has experience building parts on a production scale – so they can address all your printing challenge.

### Additive Manufacturing Equipment

Our team uses equipment that is ideal for additive post-processing:

- Vacuum and convection heat treatment furnaces
- Wire EDM
- Surface grinders and EDM drills
- 3 and 5 axis mills and lathes
- Industrial CT scanner, Blue light, CMM and other inspection equipment
- Metallurgy laboratory and material testing

When you have a partner every step of the way,  
anything is possible.

Let's build  
anything together.

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