

# Amp™ software platform

Innovation made for additive users, by additive users drives industrialization faster



GE Additive

# Innovation made for users, by users.

Our Amp software platform leverages the knowledge of experts at GE Additive, GE Aviation and GE Global Research. We have taken best practices, learning and know-how from actual applications and incorporated them directly into our software solution. Additive users can now move toward industrialization with a repeatable, consistent and streamlined process—to scale and transform their business.

Developed exclusively for GE machines, Amp integrates the tools engineers need to manage, process and manufacture metal additive parts on one integrated platform—built on GE’s expertise and experience. From development to print production, Amp offers a flexible, streamlined workflow so manufacturers can improve part production and significantly reduce trial and error needed to develop print-ready parts.

With an integrated software solution you can improve your additive workflow in four key areas:



**DECREASE** time and cost of part development



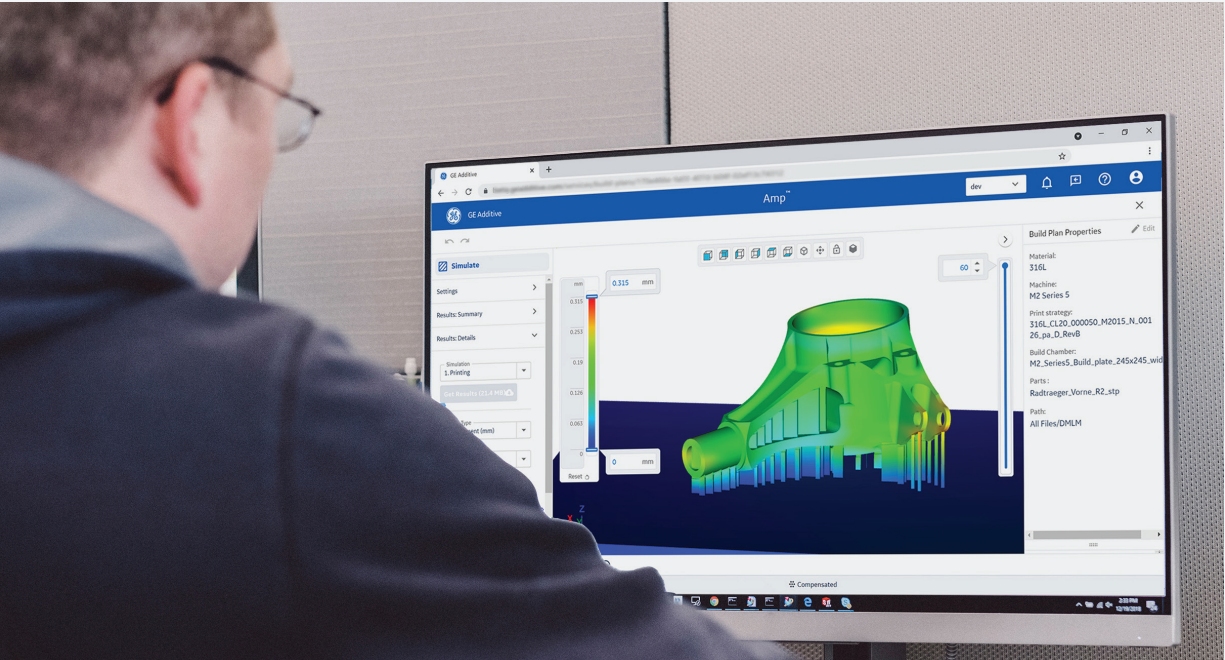
**MAXIMIZE** number of possible applications to print



**IMPROVE** part yield



**ENHANCE** accessibility and collaboration



## A better way to work:

Results matter, so the process matters. Our software platform is revolutionizing additive manufacturing.

From development to print production, Amp offers a flexible, streamlined workflow so manufacturers can improve part production and significantly reduce trial and error needed to develop print-ready parts.

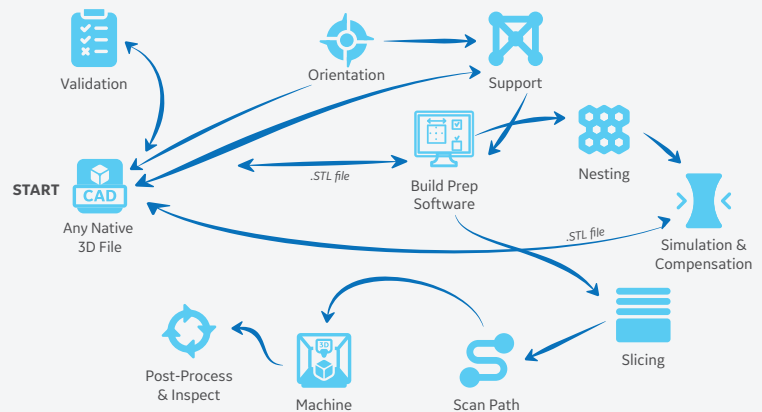
Amp breaks down the silos between CAD, build prep, simulation, compensation and inspection data to help improve part production. With centralized data, you can access tools that simulate how the manufacturing process unfolds in real time and see the estimates for cost and time for a part throughout the process.

See how Amp transforms the additive design and development process.

### Before Amp

*Open-loop, time-consuming linear process*

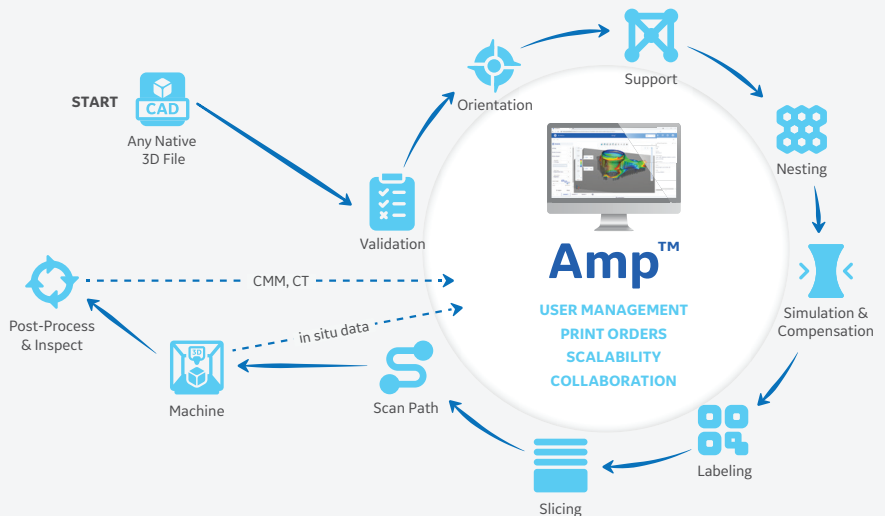
- Cumbersome STL files
- Linear process
- Limited team access
- Multiple, non-integrated tools
- Seemingly endless trial and error



### With Amp

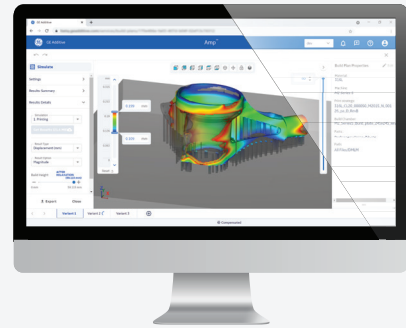
*One integrated, data-centric solution*

- Uses native 3D files rather than STLs
- Enables more tasks and people to work simultaneously through a flexible work process
- Provides built-in estimates of cost and time
- Significantly reduces trial and error
- Creates a complete digital thread



# Witness the power of Amp.

Amp offers two modules: Print Model, and Simulation & Compensation, to help you optimize your additive process.



## Print Model

A common user experience through a secure, intuitive tool that reduces design iterations and speeds up the time to print a good part, according to the design intent.

### Automate manual tasks

- Based on real-world best practices
- Simplified process to print parts

### Track pedigree

- Relationships captured between various inputs
- Audit history of printed parts

### Leverage CAD model

- Clean data, no need for STL, no healing

### Experience a single data-centric process

- No saving out to other software tools
- No learning separate interfaces
- Everything in one place

### Conduct quality checks

- Identify build risks before sending to print

## Simulation & Compensation

Predict distortions, residual stresses, recoater interference and defects before manufacturing and apply corrections before launching production, reducing build trials.

### Add Simulation to your additive process

- Easy-to-use tools for design/manufacturing engineers
- Reduced barrier for non-simulation experts

### A unified user experience

- Seamless flow from build preparation to sim/comp
- All interactions saved for future needs

### Save time

- Digital iterations until your design intent is achieved
- Reduce manual processes and wasted resources from trial builds

### Save money

- Reduce costs associated with material and manpower
- More opportunities to use additive on new parts
- Get more parts through development and into production
- Maximize number of possible applications to print





GE Additive

# Are you ready?

To leverage the tools and techniques leaders use in metal additive industrialization.  
To go to market with a successful additive part—faster and at scale.  
To cement a lasting competitive advantage.

Let's fast-track your path to additive industrialization.

**Contact us today: [Amp.Software@ge.com](mailto:Amp.Software@ge.com)**