



SIEMENS

Ingenuity for life



Additive manufacturing services

Realize better performing products faster with reduced weight and cost

Benefits

- Develop a vision for the potential and usage of AM, and understand its ROI
- Learn how to create new designs leveraging AM's flexibility and freedom from existing manufacturing limitations
- Select most suitable AM technology and materials and develop processes for part certification and quality management
- Learn the environment, health and safety requirements for AM storage, usage and disposal
- Define efficient processes related to the handling of AM digitalization
- Understand requirements for IT infrastructure related to AM data volume and handling

Summary

Additive manufacturing (AM) is redefining the design and manufacturing of products. Using AM technologies, many leading companies are realizing increased return-on-investment (ROI) by exploring, designing and producing parts and/or component assemblies with better performance and less materials.

Siemens Digital Industries Software believes industrializing AM, where companies can incorporate it into their mainstream product development and production operations, will enable them to achieve the next level of product, manufacturing and business performance.

The Xcelerator™ portfolio is the comprehensive and integrated portfolio of software and services from Siemens that can help you industrialize AM.

To create 3D-printed parts that leverage AM flexibility and freedom from existing manufacturing limitations, the Siemens Technical Consulting team can answer your questions so you can realize benefits faster.

Our team can also help you plan and execute in the following essential areas:

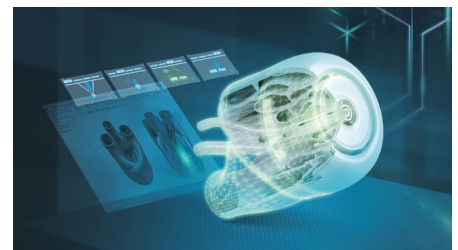
- Identify AM candidates from existing parts or assemblies
- Make sound AM materials selections by understanding their properties and best use cases including using pre- and postprocessing requirements
- AM data management and intellectual property using state-of-the-art data security technology
- Move from proof of concept to full-scale production and automation, including part quality monitoring and certification

To help companies unlock the power of AM, Siemens provides the following service offerings:

Part identification and design

This offering is designed to guide you through candidate part selection and reimagine part or product design to take advantage of the design freedom enabled by utilizing AM techniques.

Siemens uses a standardized product and component portfolio screening approach to identify existing parts and functional subsystems to serve as



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candidates for AM technologies. The screening criteria and objectives focus on reducing weight and materials usage with faster innovation cycles and better product performance.

Siemens works with key customer stakeholders and technology domain experts using our solutions to define AM product development.

Material and process selection

AM is being rapidly adopted in many industries as 3D printing costs continue to fall. More advanced software tools are being developed, and more materials and technology are becoming available. This offering provides customers with the necessary information to identify appropriate materials and related processes that can be utilized to create identified products.

Siemens will work with key customer stakeholders and domain experts using our applications to effectively define your AM pilot or production roadmap.

Data and digital rights management

This offering is designed to help customers develop a plan to manage



and protect their AM data and learn methods for maintaining integrity and security inside and outside their production facility. This enables large-scale and lower-cost production while protecting your intellectual property.

Siemens will work with key customer stakeholders and technology domain experts using our solutions to define your AM data management roadmap.

Introducing AM into the factory

This offering assists customers who want to take their AM processes to a production level. It helps customers optimize factory layout by identifying the best location for AM equipment in the plant. Lean manufacturing



techniques are used to analyze the current flow of material and information.

Siemens will work with key customer stakeholders and domain experts using our solutions to define your roadmap for scaling up your AM process to a production level.

Scope

Depending on your existing needs, the AM offerings may take the form of a workshop, technical training, analysis, proof of concept, troubleshooting or co-development.

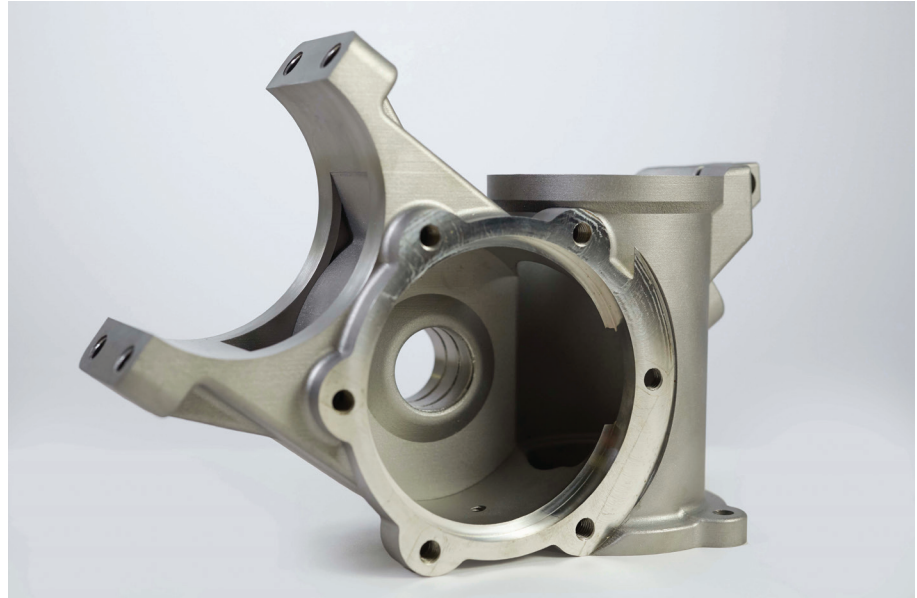
Prerequisites

- Customer management and key expert participation
- Sharing of customer's primary product information, manufacturing processes and operations
- Commitment for AM advancement and the need for an action plan
- Fast onsite internet connection

Duration and deliverables

Project durations and deliverables vary by offering activities.

For more information please contact the services manager in your country.



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