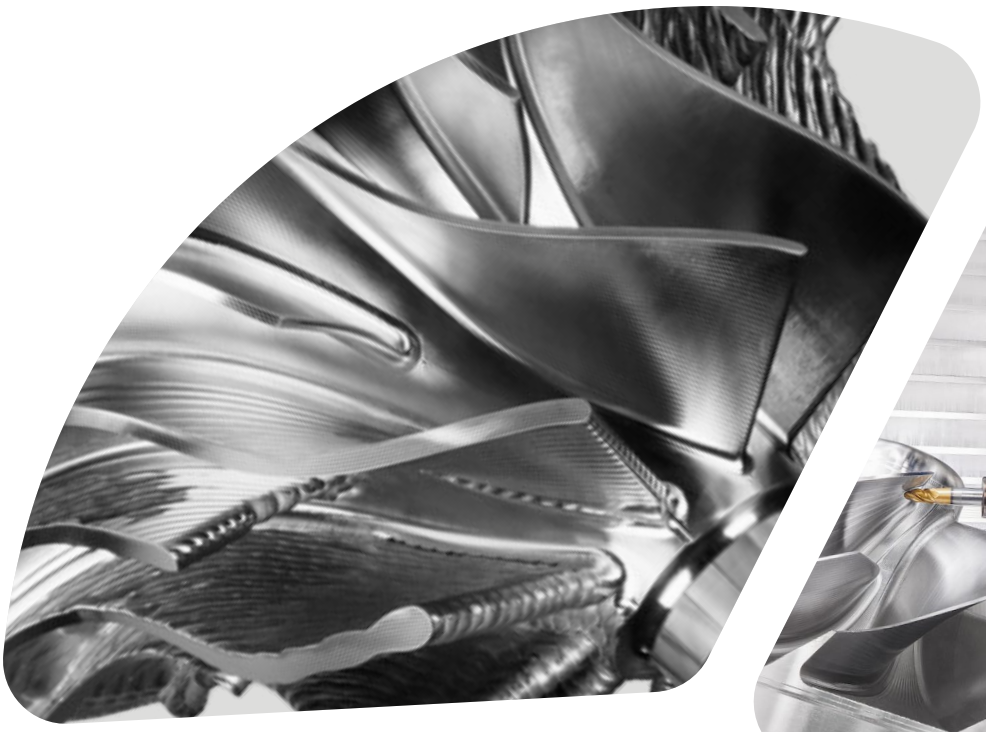
END-TO-END MANUFACTURING SERVICE PROVIDER

ADDITIVE | SUBTRACTIVE | METROLOGY

FASTECH LLC



FAST | FLEXIBLE | COST-EFFICIENT

Why Fastech?

At Fastech, we have been providing cutting-edge metal 3D printing solutions since 2018, using some of the first Wire-DED systems in the U.S. We also have on-site a range of state-of-the art machining centers, which allows us to seamlessly complete the production process in-house.

Collaborating together from concept to finished product.
Wire Directed Energy Deposition (Wire-DED) is still in its infancy and its full potential is yet to be realized. That's why, we at Fastech, will work closely with you to explore how Wire-DED processes can help you design products that might have been previously impossible to manufacture, to cut lead times and to reduce costs.

One-stop-shop solution to manufacture components

With our standalone or combined rapid machining and Wire DED advantage, we can provide a full range of prototyping, design for manufacture and supply management services:

- Lead times up to ten times faster than traditional additive manufacturing methods to meet challenging timelines.
- Turnkey subtractive machining services for one-off components and production runs.
- Additive services including 3D metal printing with Gefertec's WAAM technology and Meltio's laser-wire 3D printing (LW-DED).
- Full part reverse-engineering and CAD development services.
- Robust supply chain for US & European manufactured welding consumables as well as metal or plastic raw stock.

← Our AMRC-P, Metal 3D Printing System, manufactures small to medium scale thin structures.

Talk to us early to see how our extensive 3D metal printing and machining expertise can help you revolutionize your production processes.

Our GEFERTEC 3DMP®arc605 3D metal printing process helps manufacturers produce parts that might not have been previously possible.

We work with a wide range of customers

Industries served:

- Aerospace
- Automotive
- Defence
- Renewables
- Rail & rolling stock
- Speciality packaging

FIND OUT MORE ABOUT OUR RANGE OF SERVICES

- 3D metal printing
- Subtractive
- Metrology

We can make big parts, FAST

Our WAAM process, qualified to aerospace's exacting standards

Up to ten times faster than conventional manufacturing methods, our wire arc additive manufacturing process, using our 2x GEFERTEC 3DMP®arc605 deliver high quality 3D metal printed parts.

- Lower material costs as nearly 100% materials utilization.
- Broad range of printable materials available.
- Weld deposition in 5 axes, without the need to print additional support structures.
- Extremely flexible – ideal for one off prototypes or production runs.
- Robust supply chain with our welding consumables coming from mills in the USA & Europe.

Image Credit: Gefertec

Stainless Steel Impeller (WAAM)

Ti64 Aero Bracket (WAAM)

We can make thin parts, FAST

Our laser-wire metal 3D printing process achieves near isotropic properties, exceeds casting and forging material properties

Our additive manufacturing robotic cell-portable (AMRC-P) system uses Meltio's laser-wire metal 3D printing process. This process has a compact heat affected zone which can decrease thermal stresses and subsequently yield better mechanical properties.

- Capable of printing components up to 1.8 m in dimension.
- Can print complex components using a 6+2 axis robotic configuration.
- Suitable for printing thin structures and rated for reactive alloys, like Ti64.
- Can print geometries in any direction as wire comes through the center of the melt pool.
- Saves a lot of post-processing time compared to other AM processes.
- Provides a homogeneous stock with high density, both on 100% printed components and on repaired components.

SS 316L Engine Manifold (LW-DED)

SS 316L Oil and Gas Tank (LW-DED)

Image Credit: Additec - Meltio

Accurate, complex components manufactured in large and small volumes

Precise, consistent machining service

Fastech specializes in 3 and 5-axis, or multi-axis, machining for components that require a high degree of precision and repeatability. We add the power of computer numerically controlled (CNC), computer aided manufacturing (CAM), and industry-leading software to our decades of machining experience to produce perfect products based on our customers CAD designs. Our CNC machining specialists can program and safely oversee theproduction of highly complicated precision components with the highest standards of quality.

Image Credit: Grob Werke GmbH

Handheld 3D scanners for fast, accurate 3D models

We are the US reseller for the Scantech range of portable 3D scanners. These state-of-the-art scanners are ideal for rapidly creating exact 3D models for product development, reverse engineering, first article inspection (FAI), quality control and repair and maintenance. The handheld scanners, which can measure and scan large or awkward shapes, automatically transform the 3D scan data into accurate 3D models with part measurement accuracy within as little as less than a 10th Thou (0.0008”) or 20 microns.

SCANTECH

US Reseller

Capability Matrix for Fastech

	HAAS VF-2 SS	HAAS UMC-1000SS	HAAS UMC-1000SS	Grob-350	Hermle 650	HAAS ST-30Y	HAAS CL-1	Gefertec ARC 605 3MP (2x)	ADDiTEC AMRC-P
Direct import of customer models STP, IGES, PARASOLID, STL, etc	✔	✔	✔	✔	✔	✔	✔	✔	✔
Autodesk Fusion 360	✔	✔	✔	✔	✔	✔	✔		
Siemens NX	✔	✔	✔	✔	✔	✔	✔	✔	
Power Inspect	✔	✔	✔	✔	✔				
Autodesk CAMplete		✔		✔	✔				
CGTech Vericut	✔	✔	✔	✔	✔				
Cam 3DMP								✔	
Adaxis AdaOne									✔
Pollywork Inspector and Modeler	✔	✔	✔	✔	✔	✔	✔	✔	✔
Material Capabilities									
Stainless Steels*	✔	✔	✔	✔	✔	✔	✔	✔	✔
Aluminums*	✔	✔	✔	✔	✔	✔	✔	✔	
Coppers*	✔	✔	✔	✔	✔	✔	✔	✔	
Mild Steels*	✔	✔	✔	✔	✔	✔	✔	✔	✔
Tool steels*	✔	✔	✔	✔	✔	✔	✔	✔	✔
Inconel's*	✔	✔	✔	✔	✔	✔	✔	✔	✔
Titanium's*	✔	✔	✔	✔	✔	✔	✔	✔	✔
Nickel Aluminum Bronze*	✔	✔	✔	✔	✔	✔	✔	✔	
Hastelloy*	✔	✔	✔	✔	✔	✔	✔	✔	✔
Haynes*								✔	✔
Al 5183, Al 6061, Al 7075*								✔	

* A full list of material grades we can machine and print can be provided on request.

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Alan Pearce, our CEO, with President Biden and Rich Voorberg, President at Siemens Energy, at the AM Forward Initiative showcasing a successfully manufactured component for Siemens Energy.

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FASTECH LLC

Fastech LLC is ISO 9001:2015 and AS9100D:2016 certified.

Fastech LLC maintains an active ITAR registration with the U.S. State Department, Directorate of Defense Trade Controls.

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