

FATHOM

DIGITAL MANUFACTURING. REIMAGINED.

Additive Manufacturing Solutions

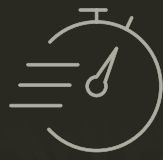
Explore our portfolio of additive solutions to accelerate your new product development.

From early concepts and rapid prototyping to production and post-processing, we can help you achieve the full potential of additive manufacturing. Our experienced engineering team can help you select the right technology, material and process to meet your requirements. We offer full post-processing capabilities under one roof and can deliver 3D-printed parts as fast as the next day.



Agility

Quickly create custom, complex parts



Faster Time to Market

Eliminate tooling to accelerate new product development



Rapid Prototyping

Test and iterate prototype designs quickly and efficiently

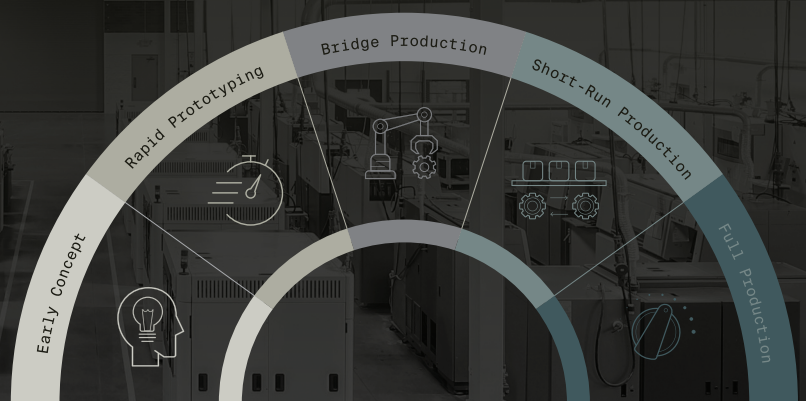


Creativity

Bring unique, creative and stunning ideas to life

Support Throughout Product Lifecycle

Fathom supports its customers from the early product development stage and prototyping through bridge and full production. We're organized to help you streamline your supply chain and accelerate your time to market.



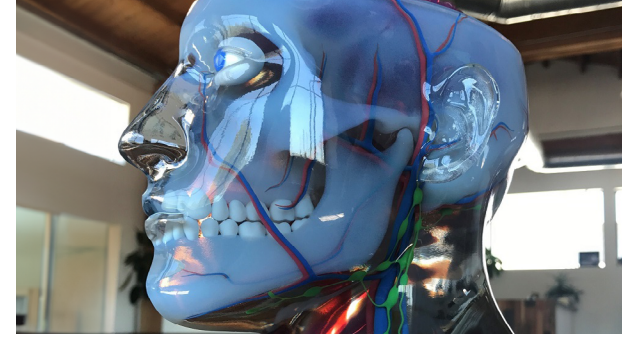
Why Choose Fathom for 3D Printing?

Fathom Manufacturing is a one-stop manufacturing solution for the world's leading companies. We combine a breadth of manufacturing technologies with an unmatched depth of engineering expertise. Our customers leverage our over 25+ manufacturing technologies to simplify their supply chains and shorten the time to market for new product innovations.

Fathom brings over forty years of additive manufacturing expertise to the table. In short, when you partner with us, you get access to a whole team of experienced people who will provide you with the advice and expertise you need to keep your projects moving smoothly and achieve the best results.



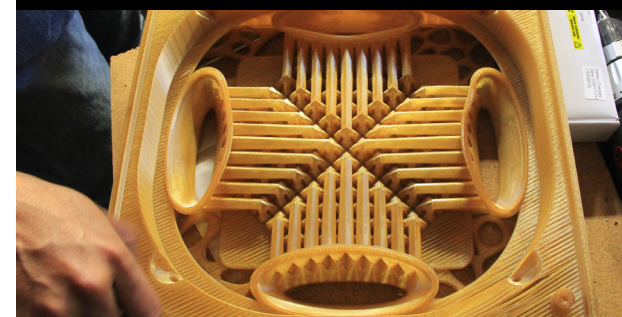
PolyJet



Colorful Demonstration Models and High-Fidelity Prototype Parts – Fast

- Colorful and Detailed Demonstration Models Quickly
- Fast Prototype Parts with Fine Detail and Smooth Surface Finish
- Blend Multiple Materials and Durometers in a Single Part

FDM // Fused Deposition Modeling



Validate and Build Durable, Chemical Resistant Parts for Extreme Conditions

- Produce Durable Prototypes Fast
- Prototyping and Production with Thermoplastic Materials
- Larger Build Size Than Other Additive Technologies

SLS // Selective Laser Sintering



Complex, High-Performance Parts Made Simple

- Build Complex Designs With Fine Detail
- Ideal For Rapid Prototypes & Production Parts
- Create Intricate, High-Quality Parts With Unmatched Precision

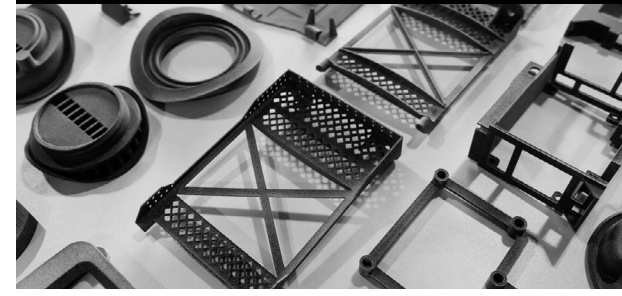
STEP // Selective Thermoplastic Electrophotographic Process



3D-Printed Parts at Injection Molding Output Speeds - Without Tooling

- Build High-Quality Thermoplastic Parts Fast – Without Tooling
- Produce Multiple Different Parts in One Build
- Minimal Design Restrictions

MJF // Multi Jet Fusion



Affordable 3D Printing with Fine Details and Complex Geometries

- Cost-Effective Short-Run Production and Prototyping
- Build Complex Geometries with High-Performance Materials
- Produces Thinner Layers and Finer Details

SLA // Stereolithography



High-Quality, Presentation-Level Accurate Resin-Based 3D-Printing

- Ideal for Producing Highly Detailed Visual Models and Prototype Parts
- Build Parts With Tight Tolerances and Fine Details
- High-Quality Surface Finish

DMLS // Direct Metal Laser Sintering



Complex Metal Parts Fast for Prototype and Bridge Production Parts

- Get High-Quality Metal Parts Fast – Without Tooling
- Build Complex Geometries with High-Performance Metals
- Consolidate Assemblies Into a Single, Printable Part

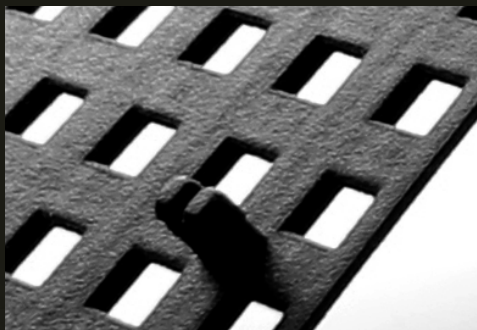
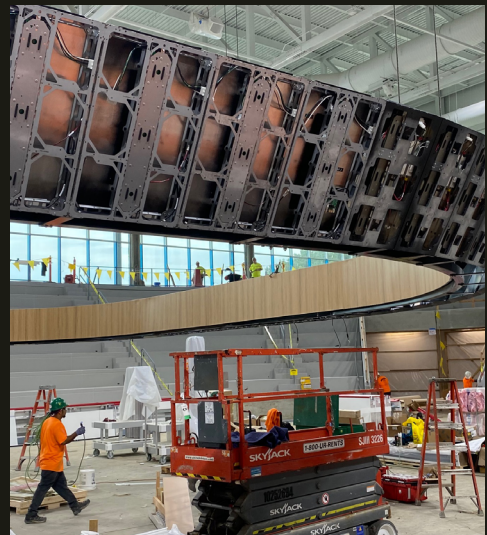
Post-Processing for Additive Manufacturing

We offer complete finishing and final assembly services in-house—creating turnkey finishing services that are flexible, quality-driven and cost-efficient.

Real Customers. Real Results.

Daktronics, a world leader in the design and manufacturing of electronic scoreboards, programmable display systems and large-screen video displays, faced a challenge in designing a new LED panel for a project. Due to the racetrack-style scoreboard panels in the corner sections, multiple individual molds with a high degree of tool automation would be needed to meet its customer's requirements. Instead, Fathom was able to use new STEP technology to create these parts.

STEP, or Selective Thermoplastic Electrophotographic Process, is a groundbreaking 3D-printing technology – *exclusive to Fathom Manufacturing* – that can build thermoplastic **parts in days instead of weeks, and without tooling.**



These parts have **similar functional properties and surface finish of injection molded ABS**, without compromising on quality, throughput, scalability or cost, and have a significant time advantage over the typical multi-month lead time for traditional injection molding tools and parts. STEP technology is also an **environmentally responsible manufacturing process** that reduces carbon footprint by eliminating the need for tooling as well as by reducing warehousing and transportation logistics.

43%
Cost Savings

63%
Time Savings

For Daktronics, working with Fathom Manufacturing resulted in significant time and cost savings - and an attractive new method of product development.

Talk to an **Expert**

Working with Fathom means easy access to Additive and Advanced manufacturing experts.

Contact us today, and let's transform the future of manufacturing together!

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