

NEWCUT //

# Fathom Newark

NEW YORK

## Key Capabilities

- Photochemical Machining/Etching
- Metal Materials Expertise
- Intricate Patterns & Complex Parts
- Sheet Metal Cutting
- Metal Finishing

## Certifications

- ISO 9001:2015
- AS9100:2016
- ITAR

## Get a Quote

- 🖱 [fathommfg.com/newcut](http://fathommfg.com/newcut)
- 👤 [sales.newark@fathommfg.com](mailto:sales.newark@fathommfg.com)
- ☎ 315-331-7680

📍 401 W. Shore Boulevard  
Newark, NY 14513

## Advanced Full-Scale Chemical Etching Manufacturer

Founded in 1970 in New York's Finger Lakes Region, Fathom Newark (formerly Newcut) is one of the nation's first photochemical etching processors. For over 50 years, they have been a leader in photochemical machining technology with a reputation for exceptional quality, accuracy and service. Using cutting-edge equipment, Fathom Newark has the ability to etch specialty metals, providing short lead times for customers across the country.

Photochemical etching supports product development from prototype through to production. This high-precision yet cost-effective manufacturing process allows for intricate patterns and complex features without increasing per unit pricing. Photochemical etching produces clean, burr-free parts while maintaining properties like material thickness. Photochemical etching is an excellent choice for a variety of products, such as:

- Screens & Filters
- RFI/EMI Shielding
- Encoders
- Contacts
- Shims/Washers
- Flat Springs
- Signage

## Take Advantage of Additional Fathom Capabilities

Comprehensive capabilities for every stage of your product's lifecycle, from concept to prototype to manufacturing.



### Additive Technologies

FDM, PolyJet, SLS & more



### Advanced Manufacturing

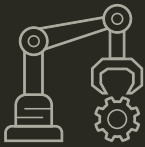
CNC, Metal Cutting, Injection Molding & Urethane Casting

# FATHOM<sup>®</sup>

DIGITAL MANUFACTURING. REIMAGINED.<sup>™</sup>

## Advanced Prototyping & Manufacturing

Fathom provides advanced rapid prototyping and on-demand low volume production services. **We are creative problem solvers that deliver high efficiency outcomes. Every time.**



**25+**

Different Manufacturing Processes



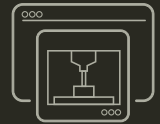
**50+**

Years of Problem Solving Experience



**12**

Manufacturing Locations Across National Time Zones



**7**

Additive Technologies



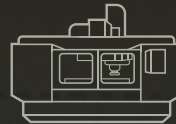
**24 hrs**

Receive Custom Parts in as Soon as 24 Hours



**450k+**

Square Feet of Manufacturing Space



**530+**

Mills, Lathes, Presses, Press Brakes, Turret Punches & Additive Systems



**90+**

Industrial Grade/Large Format Additive Systems

## Certified for your Specialized Projects

Ready for your high-quality, compliant projects.

ISO 9001:2015 Certified + AS9100 Rev. D Certified + ITAR Registered + NIST 800-171 Compliant + ISO 13485 Certified

*\*For site specific certifications, please visit: [fathommfg.com/fathom-manufacturing-certifications](http://fathommfg.com/fathom-manufacturing-certifications)*



FathomMfg.com

# Additive Prototyping & Manufacturing Services

## PolyJet Technology



- Parts In As Soon As Same-Day
- 900+ Materials (From Rigid to Flexible)
- Multi-Material & Multi-Color Parts
- Simulate Overmolding
- 500,000 Vibrant Colors, including Pantone®
- Ideal for Fine Details & Smooth Surfaces

## FDM Technology



- Parts In As Soon As Next-Day
- Parts in Real Production-Grade Thermoplastics
- High Durability, Excellent Mechanical, & Thermal Properties
- Fixtures & Tools, Functional Models, End-Use Parts

## SLS Technology



- Parts In As Soon As 2 Days
- Nylon 12 and Nylon 12GF, Nylon 11 and Nylon 11 Carbon Filled, TPU Shore 88A
- Durable Production Grade Materials
- White / Off-White + Color Dye Options

## MJF Technology



- Parts In As Soon As 2 Days
- Nylon 11 and Nylon 12 in Gray or Dyed Black
- Durable Production-Grade Parts
- Medium / High Resolution

## SLA Technology

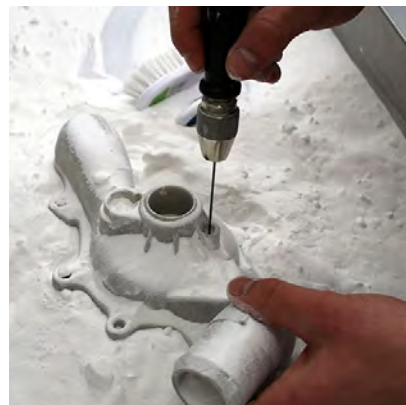
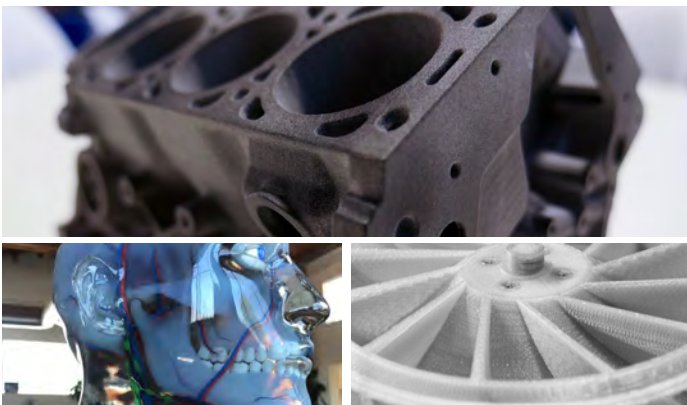


- Parts In As Soon As Next-Day
- High-Resolution & Complex Geometries
- Larger Aesthetic Models
- Durable, Excellent Mechanical & Thermal Properties

## DMLS Technology



- Parts In As Soon As 3 Days
- Aluminum, Titanium, Cobalt Chrome, Nickel Alloy
- Inconel, Maraging & Stainless Steel
- Highly Complex Structures, Including Organic Surfaces
- Post Processing Machining & Finishing Capabilities



## SMARTQUOTE<sup>®</sup>

Get a Quote Now. Get Parts Fast.

[go.fathommfg.com/quotenow](https://go.fathommfg.com/quotenow)



# Advanced Prototyping & Manufacturing Services

## CNC Machining



- Parts In As Soon As 5 Days
- 3- & 5-Axis Milling & Turning
- Production Plastic & Metal Material Options
- Precision Swiss Screw Machining
- Sinker/Ram EDM Cutting
- High-Quality Surface Finishing
- Tolerance Accuracy Range of +/-0.001" to 0.005"

## Urethane Casting



- Parts In As Soon As 7 Days
- Create Production-Quality Parts (Up to 200)
- Materials Mimic Production Thermoplastics (Including ABS-Like, WaterClear, UL94 V0-Rated, Heat Resistant, Polypropylene-Like, Various Rubber Hardnesses, etc.)

## Rapid Tooling & Injection Molding



- International and Domestic Capabilities
- Production Tool In As Soon As 3 Weeks
- Prototype Tool In As Soon As 10 Days & 10K Parts in 14 Days
- Low-To-High Volume Molding Needs
- 30 Second Quotes Through ICOMold by Fathom Quoting Tool at ICOMold.com

## Sheet Metal Cutting & Forming



- Parts In As Soon As 5 Days with Next-Day Expedite Option
- Laser & Waterjet Cutting
- Wire EDM Cutting
- Photochemical Machining / Chemical Etching
- Sheet Metal Bending, Forming, Stamping
- Hardware Installation / Assembly
- Finishing, Welding, Sanding, Powder Coating, Screen Printing, Heat Treating & Plating

## Complex Assembly & Finishing



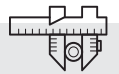
- Sanding, Priming, Painting & Assembly
- Stock Components & Custom Artwork
- Cleanroom Assembly Capabilities

## Engineering & Design Support

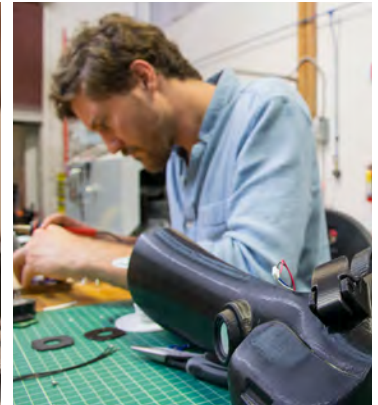
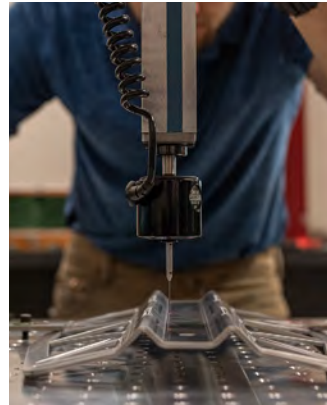
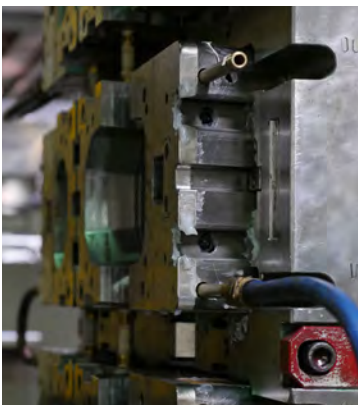


- Additive Manufacturing Expertise
- Mechanical Concept Development
- Design for Manufacturing (Advanced & Additive)
- Industrial Design Support

## Quality Assurance



- Climate Controlled Measurement Labs
- DCC CMM & Laser Scanning Capabilities
- Non-Contact Measurement
- First Article Inspection



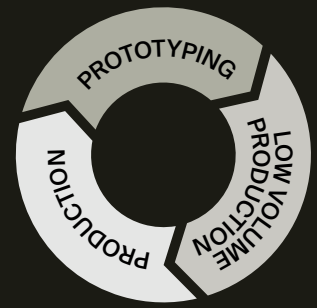
Fathom's online platform provides designers and engineers with **quick & easy access to quotes and orders for prototyping and production parts.**

### Accepted File Types

**Additive Technologies** // STP, STEP, IGES, SLDPRPT, 3DM, SAT, X\_T, STL, OBJ  
**Advanced Technologies** // STP, STEP, IGES, SLDPRPT, 3DM, SAT, X\_T

# Accelerate Your Time to Market

Fathom's advanced technologies and methods enhance and accelerate today's product development and production processes.



PROTOTYPING	→ LOW VOLUME PRODUCTION	→ PRODUCTION
Additive Manufacturing // FDM, PolyJet, SLS, SLA, MJF, DMLS	Additive Manufacturing // FDM, SLS, MJF, DMLS	Additive Manufacturing // SLS, DMLS
Metal Cutting & Forming // Laser Cutting, Press Brake Forming, Water Jet Cutting (Large & Micro), Photochemical Etching	Metal Cutting & Forming // Laser Cutting, Precision Forming & Stamping, Photochemical Etching, Water Jet Cutting (Large)	Metal Cutting & Forming // Laser Cutting, Precision Forming & Fully Automated Metal Stamping, Photochemical Etching
CNC Machining	CNC Machining	CNC Machining
Urethane Casting	Injection Molding & Urethane Casting	Injection Molding
Assembly & Finishing	Assembly & Finishing	Assembly & Finishing
Engineering & Design Support	Engineering & Design Support	Engineering & Design Support

## 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!**

📍 [go.fathommfg.com/expert](https://go.fathommfg.com/expert)

👤 [expert@fathommfg.com](mailto:expert@fathommfg.com)

📞 877-FATHOM-8

07012022

**Headquarters** // 1050 Walnut Ridge Dr. Hartland, WI 53029

**Offices** // Hartland, WI | Tempe, AZ | Oakland, CA | Denver, CO | Miami Lakes, FL | McHenry, IL | Newark, NY | Ithaca, NY | Elk Grove, IL | Ham Lake, MN | Pflugerville, TX | Round Rock, TX | China

**FATHOM**  
DIGITAL MANUFACTURING. REIMAGINED.

FathomMfg.com