

# Capabilities

## About the Multiscale Group

The Multiscale Group is a vertically-integrated suite of companies delivering end-to-end design, engineering, and production solutions for demanding applications.

Our strategic investment in advanced technology means we can do more for our customers: create complex and custom components, iterate faster, utilize high-performance materials in smarter ways, de-risk new concepts, and provide flexible solutions that make even the most esoteric project possible.

## Differentiators

### ■ “Outside-the-System” Thinking

Creative problem-solving that goes beyond conventional constraints.

### ■ Flexibility

Custom solutions for unique, specialized, and low-volume requirements.

### ■ Material Expertise

Practical know-how of exotic and high-performance materials including heat-resistant superalloys, functionally-graded materials, thermoplastic composites, and mechanical metamaterials.

### ■ Metal Hybrid Manufacturing

Unique portfolio of wire-laser hybrid systems.

### ■ Vertical Integration

Optimized and efficient manufacturing ecosystem, encompassing DFM and DFAM.



## Core Competencies

- Custom and turnkey manufacturing
- Engineering consulting
- Component ruggedization
- Wire-laser hybrid manufacturing
- Metal and polymer additive manufacturing
- Reverse engineering; repair/refurbishment
- Destructive and non-destructive testing
- Inspection and characterization

## Key Resources

- Haas UMC-750, 5-axis / Meltio
- Haas VF-5SS, 3+1-axis / Meltio (x2)
- Haas VF-2, 3-axis
- Lase-X Laser Marking Tool
- Thermoforming Compression System
- 3DGence Industry F350 Printer
- MakerGear M3-ID 3D Printer (x6)
- Hexagon GLOBAL Scan+ CMM
- Instron 5985 Universal Tester

## Key Industries

- Aviation
- Space
- Defense
- Automotive
- Manufacturing
- Energy

## NAICS Codes

- 541330
- 332710
- 332991
- 333511
- 326199
- 336413
- 336390

## Quality and Compliance

- DFARS 252.204-7012
- NIST SP 800-171
- CMMC L2
- Multiscale Systems is certified to ISO 9001 and AS9100 standards by NQA.

## Contact

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[multiscalegroup.com](https://multiscalegroup.com)

## Our Companies



Parent company to the Multiscale Group.  
Deep expertise solving difficult challenges  
through innovative design and engineering.

■ [multiscalesystems.com](https://multiscalesystems.com)



Precision machining of high-quality  
components. Wire-laser hybrid manufacturing,  
heat-resistant superalloys, and low MOQs.

■ [hybridcncparts.com](https://hybridcncparts.com)



Advanced composite technology sales and  
licensing, including ArmorONE® panels.

■ [armorytechnologies.com](https://armorytechnologies.com)

## MACH FIVE

Alloy Composite™ and thermoplastic  
composite performance automotive parts.

■ [machfivemotors.com](https://machfivemotors.com)

