



## ADVANCED MANUFACTURING SERVICES & CAPABILITIES

### YOUR MANUFACTURING CHALLENGES ARE OUR BUSINESS.

We provide end-to-end manufacturing solutions for hypersonic flight, space travel, automotive, medical and energy applications. Our process begins with understanding our customers' biggest challenges and desired outcomes. We then develop and implement manufacturing solutions tailored to their applications and their requirements.



Talk to an  
expert today.

### SERVICES

#### What role does innovative technology or processes play in your company's product roadmap?

By handling complexity, ADDMAN frees up customers to focus on what they do best. Our unrivaled engineering expertise allows customers to add seasoned and accomplished engineers to their teams, allowing them to focus on their core responsibilities, like building rockets.



Metal  
Additive



Polymer  
3D Printing



Injection  
Molding



CNC  
Machining



Engineering  
Services



Quick-Turn  
Parts



Class 8  
Cleanroom



Full  
Assembly

#### Engineering Consultancy

With your part requirements in hand, we can develop your part's application-specific design, material, and manufacturing process.

- Design services
- Metallurgy & Material parameter development
- Reverse engineering
- Advanced training & support

#### Precision Machining

ADDMAN Precision offers top-tier CNC manufacturing solutions by combining the expertise of Domaille Engineering, Stanley Engineering, and Tech Manufacturing. Our state-of-the-art machinery enables precise machining with 3-7-axis milling, turning centers, and wire EDM systems. We also provide a full range of processing and finishing options to tailor to your needs.

#### Additive Manufacturing

By using cutting-edge metal and polymer printing technologies, we can create deeply complex results that are otherwise impossible. Our team creates custom material parameter sets and has developed a polymer process that produces parts that are 70% stronger and 100x less porous than typical polymer parts.

#### Injection Molding

Our injection molding capabilities are fueled by the dedicated team at our HARBEC business. With more than 45 years of experience, we offer superior strength and product durability, fast production speeds, and the capacity to meet the need for high production volumes.

## CAPABILITIES

Ambition has no limit, either in scope or reach. ADDMAN provides manufacturing solutions across infinite horizons through innovation and engineering expertise. Complete lists available upon request.

### Metal Additive

- 3D Systems ProX DMP 320
- Additive Industries MetalFAB1
- EOS M400-1, M400-4, M290, M270, M100
- GE Additive Concept Laser M2
- Nikon SLM Solutions 280, NXG
- VELO 3D Sapphire, Sapphire XC

### Injection Molding

- Arburg 370 Golden Electric 66-ton
- Arburg Allrounder 630 A 280-ton
- Fanuc Roboshot S-2000i 55-ton
- Fanuc Roboshot S-2000i 100B 110-ton
- Fanuc Roboshot S-2000i 150B 165-ton
- Fanuc Roboshot a-S330iA 358-ton
- Sumitomo Electric SE100D 100-ton
- Sumitomo SE500EV-A-HD 562-ton

### Post-Processing

- Anodizing: Titanium | Teflon | Hard Chrome
- Sulfuric Acid
- Powder Coatings
- Plating: Zinc | Chromium | Nickel
- Copper | Gold
- Dry Film
- Black Oxide
- Passivation: Nitric Acid | Citric Acid
- Shot Peening
- Heat Treating
- Penetrant Inspection
- Non-Destructive Testing
- Pickle and Oiling
- Lubricants
- Polishing | Electropolishing
- Masking | Brushed Masking
- Annealing | Isothermal | Stress Relief
- Primer / Paint Application
- Chemfilm / Chromate Conversion
- Bead Blasting

### 3D Polymer Printing

- 3D Systems Prox 320, Prox 800
- 3D Systems SLA-5000, SLA-7000
- 3D Systems Viper
- Aextra Lumia X1
- Carbon 3D L1, M2, M3
- Formlabs 3BL, Form 2, 3, 3L, Fuse1
- Fusion3 F410
- HP 4200, 5210, 5420
- Markforged Mark 2
- Nexa 3D XiP
- Roboze Argo 500
- Stratasys 360, 400, F370, NEO 800, 400 MC, 450 MC
- Titan Atlas 2.5

### CNC Machining

- (93x) 3-7 Axis Vertical CNC Machines
- (24x) 3-5 Axis Horizontal CNC Machines
- (14x) Turning/Milling Centers
- (22x) CNC Lathes
- (15x) CMM Centers
- (10x) Drill EDM
- (1x) EDM Press
- Friction Stir Welding

## MATERIALS

We have over 30 years of experience in material and parameter science. Understanding and isolating process variables allow us to show improved strength, density, and fatigue resistance. Complete lists available upon request.

### 3D Printing Metals

- Aluminum
- Carbon Composites
- Cobalt Chrome
- Copper
- Magnesium
- Nickel Alloys
- Niobium Alloys
- Rhenium
- Steel Alloys
- Tantalum
- Titanium
- Tungsten

### 3D Printing Polymers

- ABS & ABS-Carbon Fiber
- ASA
- Ceramic Resin
- Elastic 50A
- ESD Resin
- Flexible 80A
- Nylon 11,12
- PC-Glass Filled
- PEEK/PEK
- Polycarbonate
- Polypropylene
- Rigid 10K, 4000
- TPU
- Ultem 9085, 1010

### CNC Metals

- Aluminum
- Brass
- Copper
- Graphite
- Hastelloy
- Invar
- Kovar
- Molybdenum
- Inconel
- Stainless Steel
- Titanium
- Tungsten

### Thermoplastics

- ABS
- Nylon
- Polycarbonate
- TPU
- Bioresins
- Isoplast™
- Filled: carbon, glass, metal
- EcoMass™
- PEEK
- Radel™
- Stanyl™
- Ultem™
- Thermally-conductive, Electric and dielectric

