

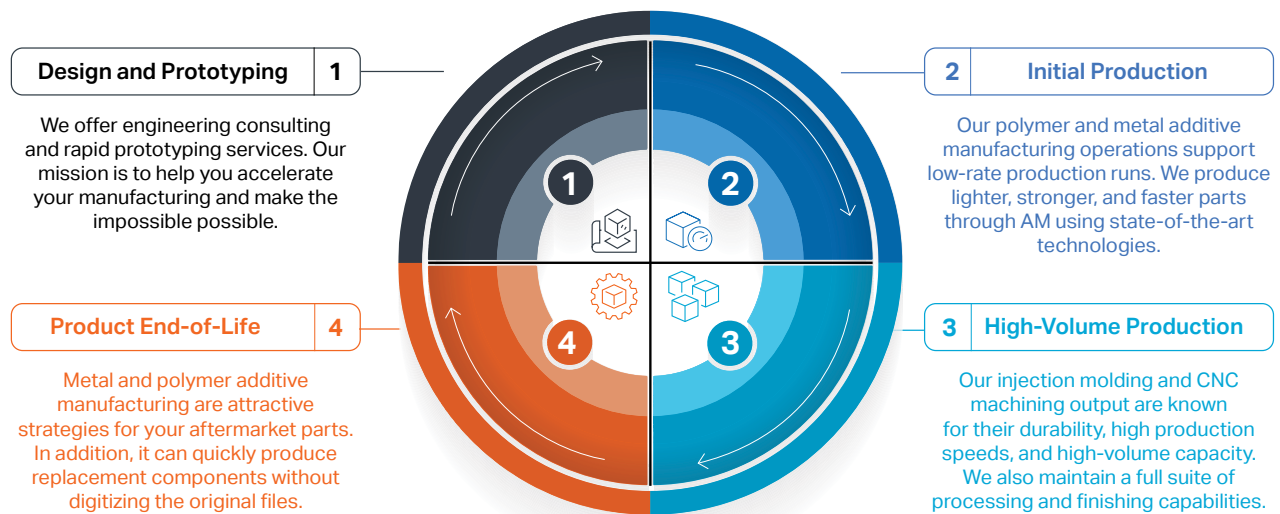


Achieve New Heights
With Our Innovative
Manufacturing
Technologies

The Full Solution

Some aspire to reach the stars, others strive to revolutionize communications, and some aim to be pioneers in smallsat manufacturing. Whether you're reaching for Mars or mapping the mysteries of Earth, ADDMAN is your partner for success in the cosmos. As leaders in comprehensive manufacturing solutions, we're already playing a key role in enabling the continued triumph of human space travel. From low-cost satellites to lighter, more efficient rockets, our cutting-edge technologies make it possible to achieve your goals in space exploration. So dream big, reach for the skies, and let ADDMAN take your commercial space project to infinity and beyond!

Any part. Any volume. Every step of the way.



Breaking Down the Business of Commercial Space

In the highly specialized and competitive field of commercial space, companies often break down their businesses into tiers to ensure that each component of their operations is optimized for efficiency and quality.

Tier 1 focuses on the manufacturing of anything that goes into space, such as rockets, satellites, and other space-bound hardware.

Tier 2 is responsible for producing anything that holds these components, such as the containers, tubes, and frames that are necessary for space travel.

Tier 3 is concerned with engineering, including the design and testing of the products produced in Tiers 1 and 2.

Commercial space companies rely on advanced manufacturing technologies like 3D printing and rapid prototyping. These technologies help create intricate molds and prototypes that refine designs and meet the demanding requirements of space exploration.

CAPABILITIES

In the space industry, manufacturing complex parts in low volumes is the norm. ADDMAN offers a comprehensive range of manufacturing services backed by cutting-edge technology and a team of experts who prioritize quality, precision, and efficiency. From the development of refractory metal thrusters and nozzles to precision machining of the toughest materials, we offer a complete range of services that enable you to launch assets into orbit, propel them, and protect them while traveling at hypersonic speeds.

CERTIFICATIONS

- AS9100
- ISO 13485
- ISO 50001
- ISO 9001
- ISO 14001
- ISO Class 8 Clean Room



Additive Manufacturing

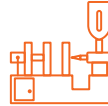
Our additive manufacturing services use cutting-edge technologies to produce high-quality components with exceptional accuracy and precision. From metal to polymer we can produce functional prototypes, low-volume production parts, and bespoke designs.

METAL

- Titanium
- Aluminum
- Inconel 718
- Niobium
- Haynes 230
- GRCo42

POLYMER

- Ultem
- PEEK
- PEI
- TPU



Traditional Manufacturing

ADDMAN customers utilize traditional manufacturing services like CNC machining and injection molding, to receive high-precision, complex parts for various commercial space applications.

CNC

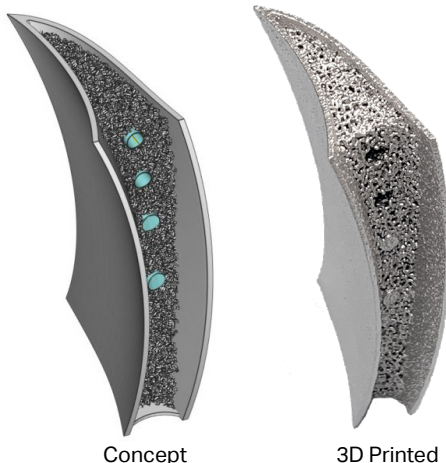
- Aluminum
- Copper
- Inconel
- Tungsten
- Titanium
- Stainless Steels

INJECTION MOLDING

- Thermoplastics
- Nylons
- Polycarbonate
- Bioresins
- Isoplast™
- EcoMass™

Applications

- In-Space Propulsion Elements
- Satellite Positioning Control & Tug
- RCS (Reaction Control System)
- Lander descent/ascent, abort/escape, and re-entry
- Thermal Protection Systems (TPS) for Re-Entry
- Aero Engine Components (such as those used in rockets and spacecraft)
- Regen Rocket Engines (used in rocket propulsion systems)



Cleared For Takeoff: Hypersonic Leading Edge

We provide advanced refractory alloys and unique geometries for hypersonic and space flight applications. Our 3D-printed Nb C103 refractory thrusters have proven effective in space, featuring a high mach leading edge with integrated cooling. Our offerings include a variable density mesh with embedded internal structures, as well as high-quality, affordable thrusters, injectors, and hot gas manifolds.

- Durable and strong throughout the entire temperature range
- Significantly higher creep resistance than wrought metal
- Stable at temperatures beyond wrought material
- High damage tolerance resistance

* Complete material list available upon request.



The Sky's Not the Limit.

At ADDMAN, we are committed to excellence in every aspect of our business. We strive to provide the highest-quality products and services, ensuring that your journey towards efficient and effective space component production is a success.

If you're ready to take your manufacturing process to the next level, trust ADDMAN to help you achieve your goals.

Contact us today to learn more.

addmangroup.com

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