



Additive Manufacturing Testing

We Take A Closer Look

Our additive manufacturing testing services include:

- Computed Tomography (CT) Scanning
- Fatigue Testing and Mechanical Properties
- Powder Characterization (Particle Size, Morphology, Density)
- Chemical Analysis
- Failure Analysis
- Metallurgical and Microstructural Evaluation

Offering cutting edge technical knowledge, broad capability, industry specific skills and innovative technology, all within a world class quality program, ATS is at the forefront of additive manufacturing testing.

With over 50 years' experience providing the highest quality testing, inspection and consulting engineering services, ATS is a proven partner in providing the answers you need in today's fast paced marketplace. You will work directly with knowledgeable experts who are equally comfortable with routine analyses or designing custom test programs to meet your specific needs. Choose ATS with confidence and assurance!

Applied Technical Services

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Website: www.atslab.com

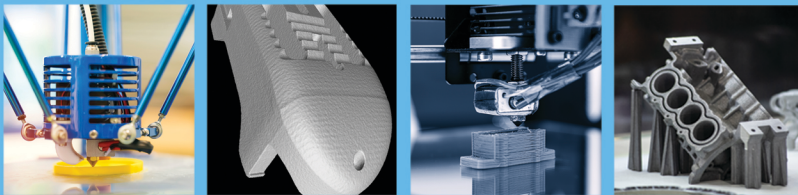


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Additive manufacturing and 3D printing have revolutionized design and manufacturing processes across the entire spectrum of industry sectors, including medical, aerospace and automotive and many others. The unique ability to quickly produce cost effective, complex and custom-built products is transforming supply chains around the world. In this dynamic and expanding industry it is critical that you have a trusted testing partner that has cutting edge technical knowledge, comprehensive capabilities, industry specific skills, and utilizes innovative technology within a world class quality program. ATS is at the forefront of additive manufacturing testing, providing a breadth of services that is unmatched in the industry. With over 50 years of experience providing the highest quality testing, inspection and consulting engineering services, ATS is a proven partner in providing data, knowledge and solutions. At ATS, customers work directly with our knowledgeable experts, who can help design a test program to meet your specific needs. Let our Center of Excellence work for you.

ATS Is a Trusted Testing Partner

We support clients across various sectors, including the aerospace, medical, and automotive industries. By testing to internationally recognized standards, we can validate the parts and processes used to create mission-critical components through additive manufacturing. As a trusted partner, we complete stringent quality and performance verification testing to ensure that all materials and products are safe for use.

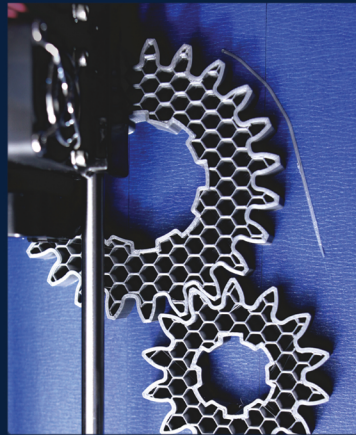
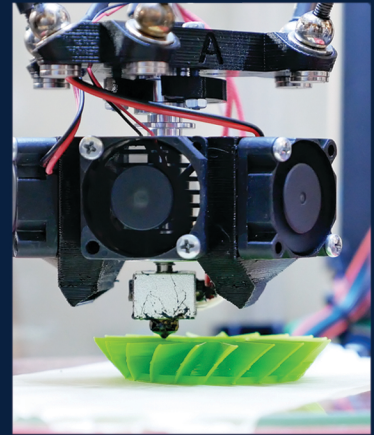


ATS' expert testing personnel employ a range of methods to analyze both the process used to create additively manufactured components and to determine the suitability of their performance characteristics according to design or standard specifications. Some of the tests we perform on AM products and components include:

- Fatigue Testing
- Impact Testing
- Cleanliness Testing
- Tensile Testing
- Computed Tomography

Our additive manufacturing testing is completed to the following standards:

- ASTM F2924-14
- ASTM F3049-14
- ASTM F3056-14e1
- ASTM F3184-16
- ASTM F3213-17
- ASTM F3302-18
- ASTM F3001-14
- ASTM F3055-14a
- ASTM F3091/ F3091m-14
- ASTM F3187-16
- ATSM F3301-18
- ISO/ASTM 3302-16



Quality Assurance Programs to Exceed Client Expectations

At ATS, we are dedicated to exceeding client expectations by providing additive manufacturing testing in accordance with applicable standards and specifications. This dedication includes providing clear and accurate data, delivering test results on time, operating within the ISO 9000 certified and ISO 17025 accredited (A2LA) programs, and adhering to the ATS Quality System. The ATS Quality System is compliant with recognized domestic and international quality system standards across a multitude of industries. As such, it is our duty to provide testing and inspection services that meet our Quality System requirements, as well as other applicable ASTM and industry standards.

About ATS

As a leading engineering firm, we are proud of our specialized testing and inspection services. Our additive manufacturing testing labs have experts who help clients find the technical solutions needed to produce high quality, safe, and valuable products. We leverage our experience, professionalism, and expertise with countless industry standards to effectively serve our national and international clients.