



SINTAVIA

Sintavia Capabilities

Vertical Integration of the AM Supply Chain

Sintavia is an innovator in the design, additive manufacturing, and material testing of optimized metal parts for the global Aerospace & Defense industry. The Sintavia facility is self-sufficient with respect to design, fabrication, quality testing, and post-processing. Every capability listed below is done within the Sintavia facility and under the exacting standards required of these precision industries we serve.

Metal Printing

- Electron Beam Powder Bed Fusion
 - 2 x Arcam Q20+
 - 1 x A2X
- Laser Powder Bed Fusion
 - 2 x SLM Solutions 280HL Dual
 - 1 x SLM Solutions 280HL Single
 - 5 x EOS M290
 - 2 x EOS M400-1
 - 6 x EOS M400-4
 - 1 x Concept Laser M2 Dual
 - 1 x TRUMPF TruPrint 3000
- Materials include Nickel, Aluminum, Stainless Steel, and Titanium Alloys

Non-Destructive Testing

- CT Scanning
- Radiographic Scanning
- Blue Light Scanning
- Fluorescent Penetrant Inspection
- Eddy Current
- Ultrasonic X-Ray
- Magnetic Particle
- Shop X-Ray, Magnaflux
- Welding Inspection

Surface Finishing

- Blasting (wet/dry)
- Polishing

Machining

- CNC and Manual Milling
- CNC and Manual Lathe Turning
- Wire EDM Cutting
- Support Removal
- 5 and 3 Axis VMC

Thermal Processing

- Vacuum Heat Treatment
- Hot Isostatic Pressing
- Aluminum Box Oven

Mechanical Testing

- Ambient and High Temperature Fatigue
 - LCF and HCF
- Crack Propagation Growth
- Fracture Toughness
- Ambient and High Temperature Tensile
- Impact

Lab Services

- Chemistry
 - ICP-OES
 - Interstitial Element N, O, H, C, S
 - Sub-ppm Elemental Analysis
- Flow Test
- Tap Density Test
- True Density Test
- Morphology Evaluation
- Failure Analysis
- Metallographic Evaluation
 - Preparation
 - Grain Size
 - Microstructure
 - Macro Etch/Micro Etch
 - Porosity/Density Evaluation
- Particle Size Distribution
- SEM w/EDS
- Hardness
 - Rockwell
 - Superficial
 - Microhardness
 - Vickers