Commitment to Quality

Description

Endeavor 3D is an advanced manufacturing center equipped with the most sophisticated and industrial additive manufacturing solutions, quality control systems, and laboratory equipment. Our materials are rigorously tested to ensure they meet the highest standards of performance and reliability. With an experienced quality control team and a state-of-the-art laboratory, you can be confident that every part is thoroughly inspected.

Endeavor 3D is a member of the exclusive HP Digital Manufacturing Network. Through rigorous qualification and certification, Endeavor 3D is credentialed to offer best-in-class engineering services, high-quality output, and a commitment to continuous improvement.

Quality Control Process

- **Inline Inspection -** After depowdering, an In-line Inspection occurs. Parts are compared against their STL files and inspected for 24 different defects. This process follows the lot sampling methodology of ISO 2859 General Inspection level II with an AQL of 1.0

- **Visual Analysis -** A thorough visual examination by our QC team is completed, inspecting parts for minor, major, and critical part defects.

- **Metrology In-house -** To ensure dimensional accuracy, we measure 5 features of size per unique part following the lot sampling methodology of ISO 2859 general inspection level 2 with an AQL of 1.0. Our QC team utilizes hand tools and the Keyence VL-500 3D scanner with 0.0004" accuracy and 16 million data points per scan.

Laboratory Equipment

- Keyence VL-500 3D Scanner/CMM
- Keyence VR-6000 Optical Profilometer
- Keyence VHX-7000 Microscope
- X-Rite MetaVue V3200 Non-Contact Spectrophotometer
- Instron Ceast 9050 Impact Tester
- Granudrum Particle Size Vertical
- Vertical and Linear Crockmeter
- Micro Trac Particle Size Analyzer
- Ohaus Analytical Scales
- Instron 5Kn Tensile Machine
- MTS 50Kn Tensile Machine
- Phase II Rockwell Hardness Tester
- Leco CS744 Carbon Analyzer
- SUV – W161 Accelerated Weathering Chamber

Keyence VL-500 3D Scanner

Partners