



Hitchiner

## Increase efficiency and speed with automated measurement systems

A leading supplier for precision investment castings for the aerospace & defense, automotive, and commercial industries, Hitchiner has implemented automated 3D scanning technology to increase efficiency and reduce costs. This user-friendly, intelligent automation has allowed Hitchiner to maintain its high levels of accuracy while reaping the benefits of digitalization.

“Using automation to drive company growth relies on repeatability. [...] The automated ScanBox quickly outpaced us by tenfold.”

**Will Carver**  
General Manager – Vacuum Cast Operations, Hitchiner

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ZEISS Quality Innovation Days 2024?

### Industry

Aerospace

### Challenges

- High mix, complexity, and volume of parts in manufacturing processes.
- Variability and operator-driven processes introduce potential for human error.
- Lack of 3D models for legacy parts in the aerospace industry.
- Need for accuracy and repeatability in metrology.

### Systems

ZEISS ScanBox

### Solution

- Implementation of automated 3D scanning technology that reduces cycle times and increases throughput.
- Structured light technology retains mesh data for historical purposes and detects complex geometry.
- Workable models for new parts can be created using 3D-printed patterns and shrink factor analysis.
- ZEISS INSPECT software can read embedded PMI and eliminate the need for two-dimensional drawings.

### Software

ZEISS INSPECT Airfoil

### Benefits

- Guaranteed throughput and quality in production standards.
- Reduction in scrap yields added efficiency and massive time savings.
- Production of tangible data that is accurate and can be correlated quickly and easily.
- Digital twin serves as a single source of truth to improve communication and eliminate interpretation issues.