Through its Metrology Services division, Creaform provides companies from the aerospace sector with a recognized expertise, know-how and knowledge in current 3D technologies in order to meet the high standards in effect in this high technology industry with regards to increased quality, precision and reactivity.

3D SCANNING AND REVERSE ENGINEERING

Creaform will help you optimize the engineering time required for product development in aerospace by providing digital model to represent design intentions, as-built or overall dimensions, while taking into account constraints, warping or their specificities.

- Worldwide staffing and provision of material resources
- Data acquisition on very large and complex areas
- Accurate and detailed reverse engineering (e.g.: structures, engines, fuselage, interior, VIP interior, cockpit, production tooling)
- As-build/assembled condition assessment
- Treatment of high volumes of data
METROLOGY IN AEROSPACE MAINTENANCE

In order to carry out the quality control for the entire repair process on airplanes that have suffered damage during a flight, and in comparison with traditional repair methods, Creaform is actively involved in defect dimensional analysis and repair before it flies again.

- Short delays and minimal intervention times
- Hail and general mechanical damage assessment
- Measurement means interoperability (laser trackers, photogrammetry, 3D scanners)
- Complementarity of competencies and technologies suited for MRO

METROLOGICAL CONTROL ON AERONAUTICAL PART

The production of aeronautical parts required a high level of precision and speed. Thanks to its 3D technologies and expertise in metrology, Creaform is able to carry out complete control projects, from design to manufacturing of jigs that are adapted to the measurement device to creation of the final inspection program.

- Short delays and minimal intervention times
- First Article Inspection (engine parts, aircraft components and assemblies)
- Adjustment and 3D shape analysis of production and assembly tooling
- Production compliance inspection
- Design of specific measuring jigs
- Creation of simple and detailed inspection programs
- Export of customized measurement reports
- Training of operators on the measurement devices and inspection software