

PORTABLE 3D MEASUREMENT SOLUTIONS

# CREAFORM

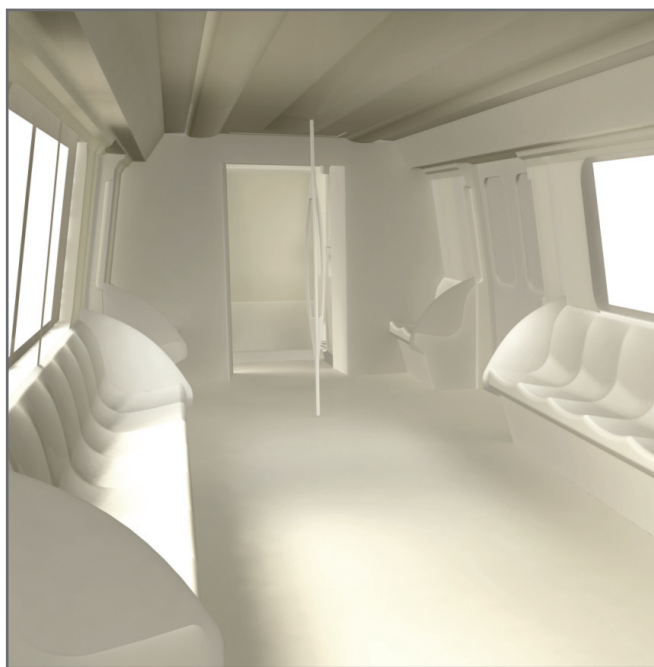


Through its Metrology Services division, Creaform offers its expertise, renowned know-how and knowledge in 3D technology to companies from the transportation industry. Whether for developing equipment or customized applications, the Creaform services make it possible to meet the high quality and competitiveness standards of this industry.

## 3D SCANNING AND REVERSE ENGINEERING

Thanks to its 3D scanning and reverse engineering services for either simple or complex environments, Creaform can provide its customers with a trustworthy and reliable 3D model of existing elements (railroad or freight cars, minivans, etc.), and optimize design and styling, all of that quickly. The Creaform team counts many experts, always ready to go on location and take on any kind of project, anywhere in the world.

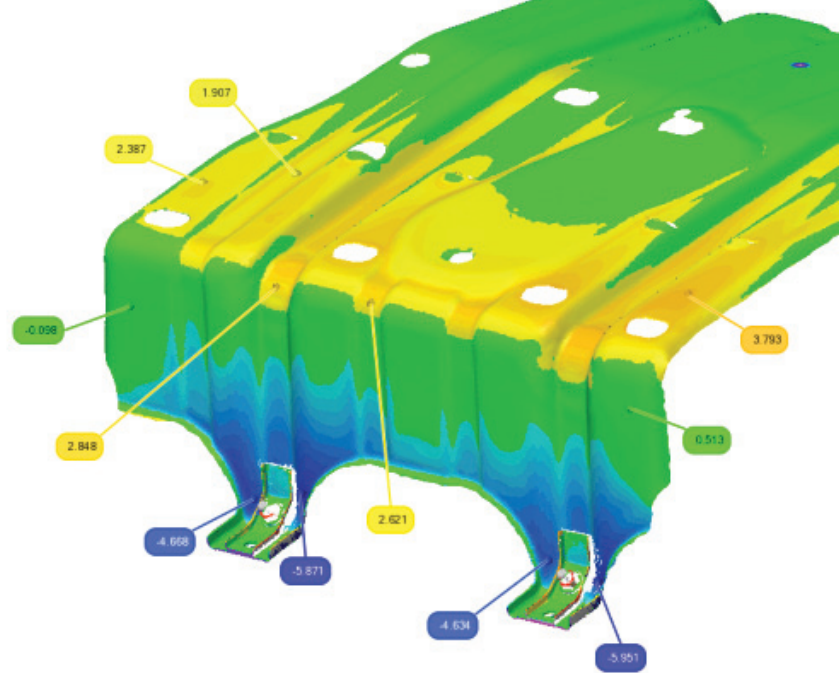
- Quick data acquisition, thus limiting the time required on site
- Validation of new designs before going into production
- Update of train cars interiors
- Data importation into all CAD platforms
- Optimization of design and manufacturing process



## INSPECTING PARTS AND MECHANICAL ASSEMBLIES

When manufacturing mechanical parts for the transport industry, the final geometry is really crucial to ensure adequate assembly. It is a well-known fact that a loss of accuracy can result in considerable financial losses in a production context. To compensate for assembly quality issues, the Creaform 3D scanners and portable CMMs are used to validate the parts or assemblies and make corrections before delivery, if needed.

- High accuracy even in a production context
- Quick problem diagnosis (for instance, deformation, machining defect, heat stress, etc.)
- Adjusting templates for production, assembly or quality control
- Inspecting models, molds and parts
- Personalized deviation reports



## INSPECTION DIRECTLY ON AN ASSEMBLY LINE

Creaform technologies make it possible to automate inspection directly on the assembly and production line. Creaform also offers technology integration and support/guidance services. We can additionally develop software applications adapted to the customers' needs (customized visual GUI, automatic alignment, operator guidance, custom-made reports), thus guaranteeing a thorough but flexible inspection follow-up.

- Measurements taken on a moving object
- High accuracy in an unstable environment
- Developing specific applications according to the customers' needs
- Automatic results displaying