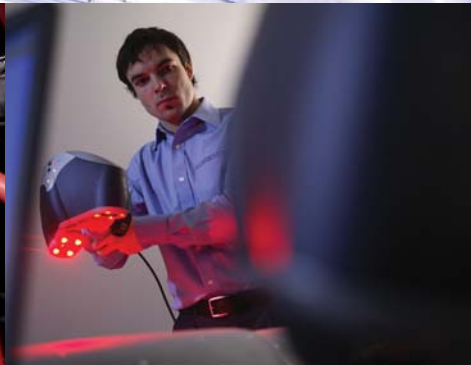


# CREAFORM 3D ENGINEERING SERVICES™



**CREAFORM**  
3D TECHNOLOGY AND DIGITAL SOLUTIONS

# OVER 5000 ENGINEERING PROJECTS COMPLETED



Founded in 2002, Creaform can claim more than 5000 engineering projects to its credit and has developed a strong expertise in **INSPECTION, 3D SCANNING, REVERSE ENGINEERING, DESIGN** and **FINITE ELEMENT ANALYSIS (FEA)**, to better serve your activities in product development and quality control.

Experienced technicians and engineers carry out the services Creaform offer. Their responsiveness and adaptability allow us to meet the requirements and methods of each of our clients. Turnkey projects, carried out on site or in our laboratories, no matter the environment, are our speciality.



3D SCANNING  
REVERSE ENGINEERING  
LONG-RANGE SCANNING  
DESIGN & ENGINEERING  
FINITE ELEMENT ANALYSIS (FEA)  
INSPECTION  
TRAINING  
STAFF OUTSOURCING

## 3D SCANNING

Our experience in 3D scanning first inspired the invention of the Handyscan 3D technology; therefore, we guarantee the best expertise there is for your 3D scanning projects.

- \_ OBJECTS OF ANY SIZE, COLOR AND TEXTURE
- \_ PREPARATION FOR PROTOTYPING, WITH OR WITHOUT COLOR
- \_ 3D ARCHIVING
- \_ ANALYSIS OF COMPETITION

## REVERSE ENGINEERING

Creaform allows you to generate 3D CAD models from existing objects, whether to determine the original design intent, to modernize manufacturing processes, to design a new part to fit to a legacy part, or other.

- \_ PARAMETRIC 3D MODELING IN GENERIC AND NATIVE FORMATS
- \_ RECONSTRUCTION OF CLASS-A AND CLASS-B SURFACES
- \_ DESIGN MODIFICATION FROM ACTUAL OBJECTS
- \_ DATA PREPARATION FOR DIGITAL SIMULATION

## LONG-RANGE SCANNING

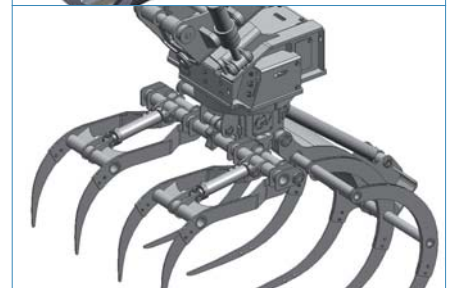
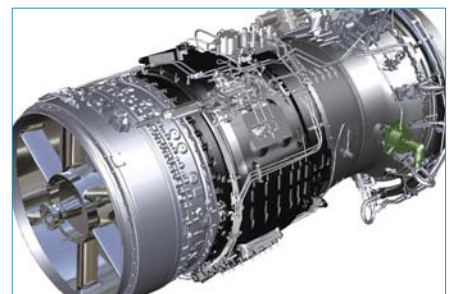
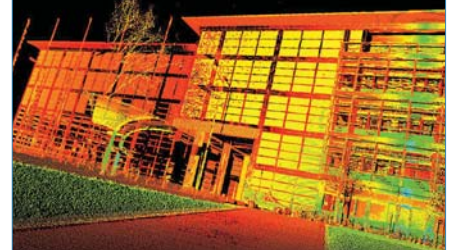
3D long-range scanners set new standards and Creaform has the leading-edge expertise to make their benefits available to clients from all industries.

- \_ AS-BUILT SURVEYS
- \_ TOPOGRAPHICAL SURVEYS
- \_ ENGINEERING AND DETAIL SURVEYS
- \_ HIGH-DEFINITION SURVEYING

## DESIGN & ENGINEERING

Design and engineering are a major business line at Creaform. The company hires experienced mechanical and industrial design technicians and engineers who have in-depth knowledge of most manufacturing processes.

- \_ PRODUCT DEVELOPMENT
- \_ TOOLING AND JIGS
- \_ MECHANISM DESIGN, ELECTRICAL, PNEUMATIC AND HYDRAULIC SYSTEMS
- \_ THERMOPLASTICS, COMPOSITES, METAL: MACHINED, CUT, FORMED, AND MORE
- \_ CONSULTING SERVICES



## FINITE ELEMENT ANALYSIS (FEA)

Finite element analysis is a critical tool when it comes to product development. Experienced engineers at Creaform use powerful analysis tools and can execute several types of structural and thermal analysis for clients.

- \_ LINEAR AND NON-LINEAR ANALYSIS
- \_ NORMAL MODE AND BUCKLING
- \_ DYNAMIC RESPONSE
- \_ CONTACT AND ASSEMBLY
- \_ COMPOSITE MATERIAL ANALYSIS
- \_ COMPLEX MESH (HEXAHEDRAL)

## INSPECTION

Our metrologists have the expertise and use the cutting-edge equipment required to fulfill the needs of the clients, making their QC processes much smoother.

- \_ CONVENTIONAL AND CONTACT-FREE METROLOGY
- \_ INSPECTION IN A CONTROLLED ENVIRONMENT
- \_ GENERATION OF INSPECTION REPORTS USING CLIENT STANDARDS
- \_ PART PROGRAM AUTOMATION
- \_ CONSULTING SERVICES IN METROLOGY

## TRAINING

We offer training ranging from basic to expert level, and the curriculum material and duration are tailored to the specific needs of each client.

- \_ USING THE TECHNOLOGY AND THE SOFTWARE PROGRAMS
- \_ THEORY AND PRACTICE
- \_ IN-BUSINESS SUPPORT



## STAFF OUTSOURCING

When a company is experiencing staff shortage, the Staff Outsourcing Services of Creaform can help. This service is a way to fulfill needs in human resources while preserving confidentiality and encouraging cooperation and transfer of information.

- \_ EXPERIENCED DESIGNERS, APPLICATION ENGINEERS AND METROLOGISTS ARE AVAILABLE
- \_ MANDATES OF VARYING DURATION, ALL OVER THE WORLD
- \_ ACTION PLANS ARE ADAPTED TO THE NEEDS OF THE CLIENT
- \_ PROJECT MANAGEMENT



“Our clients are satisfied and our workload has been reduced thanks to the availability of 3D models for plane installation purposes. Mission accomplished! There’s not a week that goes by without someone talking to me about 3D scanning (...). I consider the Handyscan 3D scanner recognized and accepted at Engineering as a CAD or reverse engineering solution.”

**Michel Labrecque**, ing.



“When B&D Industrial Design needs an outside resource to supply high quality V5 models, we confidently go to Creaform. They work to Black and Decker’s internal CATIA V5 best practice standards, complete work on schedule, and make requested changes quickly. I appreciate the positive attitude of everyone I have worked with at Creaform to get the job done.”

**Don Vetter**, Lead Project Industrial Designer, Surfacing



“On several occasions, I have worked with Creaform; on every one of those occasions, I have noticed the professionalism and the high level of competence of their staff. For metrology, they can be trusted; they know how to interpret drawings and reproduce the proper position of parts for adequate dimensional checks. Creaform staff members are also very available and they adapt to the needs of the industry, even when schedules are tight.”

**Sylvie Boisvert**, Coordinator – Quality Engineering



## PARTNERS

Creaform works with world-renowned partners.



		USED FOR SERVICE	TRAINING	DISTRIBUTED & INTEGRATED
CREAFORM EQUIPMENT	HANDYSCAN 3D LASER SCANNERS (CREAFORM)	✓	✓	✓
	HANDYPROBE ARM-FREE CMM (CREAFORM)	✓	✓	✓
OTHER DEVICES	LASER TRACKERS (API)	✓	✓	✓
	STATIONARY CMM (MITUTOYO)	✓	✓	
	LONG-RANGE SCANNERS (LEICA)	✓	✓	✓
SOFTWARE	POWERINSPECT (DELICAM)	✓	✓	✓
	μLOG XG, METROLOG XG, METROLOG V5 (METROLOGIC GROUP)	✓	✓	✓
	VERISURF MEASURE	✓	✓	✓
	COSMOS (SRAC)	✓	✓	
	CATIA V5, 3D VIA (DASSAULT SYSTÈMES)	✓	✓	✓
	ICEM SURF	✓	✓	
	INVENTOR (AUTODESK)	✓	✓	
	NX (SIEMENS)	✓	✓	
	PRO-ENGINEER (PTC)	✓	✓	
	SOLID EDGE (SIEMENS)	✓	✓	
	SOLIDWORKS (DASSAULT SYSTÈMES)	✓	✓	
	NASTRAN WITH FEMAP (NEI SOFTWARE)	✓	✓	
	GEOMAGIC	✓	✓	✓
POLYWORKS (INNOVMETRIC)	✓	✓	✓	
RAPIDFORM (INUS TECHNOLOGY)	✓	✓	✓	

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