

Success for Atlantic Canada Designers & Manufacturers

Javelin products and services help with innovative design

Canadian Navy's Maritime Coastal Defence Vessel, image courtesy of Grantec & SolidWorks Corporation



/ Home / Customer Successes / Grantec Engineering Consultants, Inc.

Customer Case Study

Grantec Engineering Consultants, Inc. - Advanced Analysis Services

G E C I Grantec Engineering Consultants Inc.

Grantec Engineering Consultants, Inc. provides advanced analysis services using COSMOS software to clients that develop complex structures for a wide range of applications. Richard M. Grant, company founder and president, was the principal structural analyst on the Canadian Navy's Maritime Coastal Defence Vessel.

Company Name: Grantec Engineering Consultants Inc.

Industry: Marine/Analysis Services

Previous CAE: ALGOR®, ANSYS®, NASTRAN®

Location: Hammonds Plains, Nova Scotia

Products used: COSMOSM®, COSMOSMotion™,

Company URL: www.grantec.ca

COSMOSWorks® and COSMOSDesignSTAR

The Challenge

Grantec Engineering Consultants, Inc. provides advanced analysis services to clients that develop complex structures and mechanical systems in the offshore, marine, energy, manufacturing, petrochemical, and defense industries.

When he founded the company, President Richard M. Grant realized he would need a robust, flexible, and affordable set of analysis tools in order to meet his client's diverse engineering challenges consistently, efficiently, and cost-effectively.

The Solution

The company selected **COSMOSWorks**, **COSMOSDesignSTAR**, **COSMOSM**, and **COSMOSMotion** analysis software for advanced structural analysis because of the software's ease of use, complete set of capabilities, integration with **SolidWorks Office Premium** 3D CAD software, and value.

By choosing COSMOS, Grantec has increased analysis productivity by a factor of 40, expanded its range of analysis capabilities, enhanced its compatibility with customer design data, and improved its communication of analysis results.

Summary and Metrics

- Increased analysis productivity by a factor of 40
- Expanded range of analysis capabilities
- Enhanced handling of analysis of complex geometries
- Improved communication of analysis results to customers



“Most of the people we deal with are using SolidWorks CAD software and come to us for advanced COSMOS analysis capabilities. Our solution is also compatible with other design platforms because we can import all of the leading CAD formats into either SolidWorks or COSMOSDesignSTAR.”

Richard M. Grant, Founder and President, Grantec Engineering Consultants Inc.



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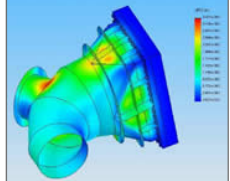
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EXAMPLE



Grantec conducted an advanced finite element analysis of a large (500 ton) Multi-Stage Flash (MSF) desalination vessel. [Click on the image to enlarge.](#)