Applied CAx

CAD • CAE • CAM • PLM

NX • Teamcenter • Simcenter Femap

Simcenter 3D • Simcenter STAR-CCM+ • Amesim

![Applied CAx logo]

WE DO THIS EVERY DAY

Since 2008 Applied CAx has guided companies to realize their investment in digital engineering tools.

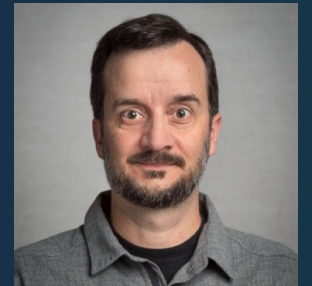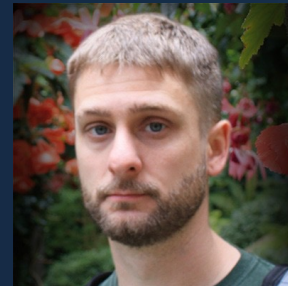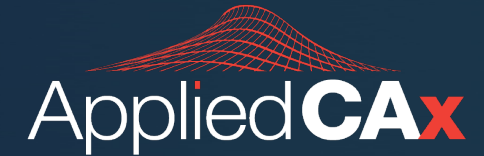NX CAD

SIMCENTER FEMAP

NX CAM

SIMCENTER 3D

TEAMCENTER

SIMCENTER STAR-CCM+

SOLID EDGE

Who is Applied CAx?

We Do This Every Day

SIMCENTER 3D · FEMAP · STAR-CCM+
NX CAD-CAM · TEAMCENTER · SOLID EDGE

Our Next FEMAP Training Opportunity
June 7th – June 18th, 2021
AppliedCAx.com/Training

Interested in becoming a client?

Please contact Jeremy Russell

Jeremy.Russell@AppliedCAx.com

(503) 962-0287

CAE Support Review:

As far as tech support is concerned, I have had fast and top-quality responses. The awesome thing is, I get a lot of information during the support communication, but I also receive the full concept and learn a lot. Even if the issue is very simple, I get a quick response. If someone asks me about buying Siemens products, I will surely recommend Applied CAx.

Srivatsa Pradeep, MSME
Project Consultant (Structures & FEA)
Hatch LTK Engineering Services

HATCH LTK
Positive Change for the Next Century
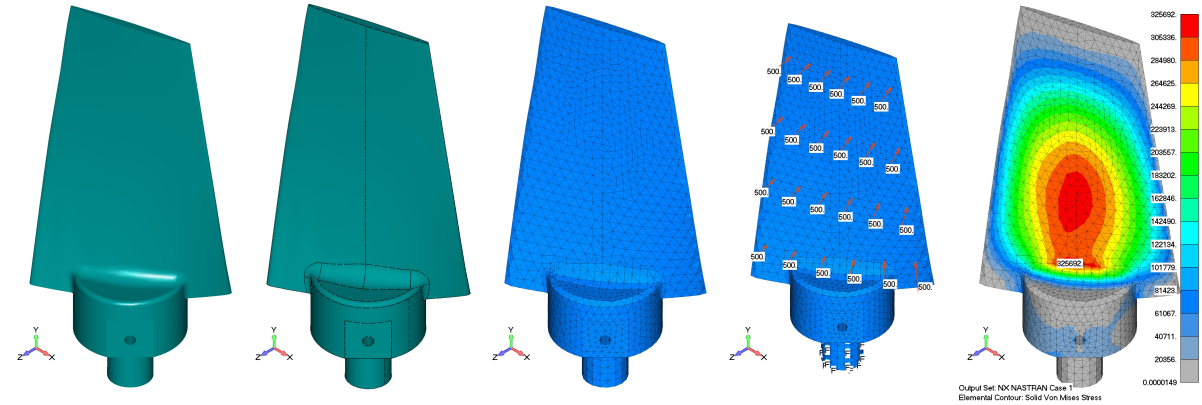
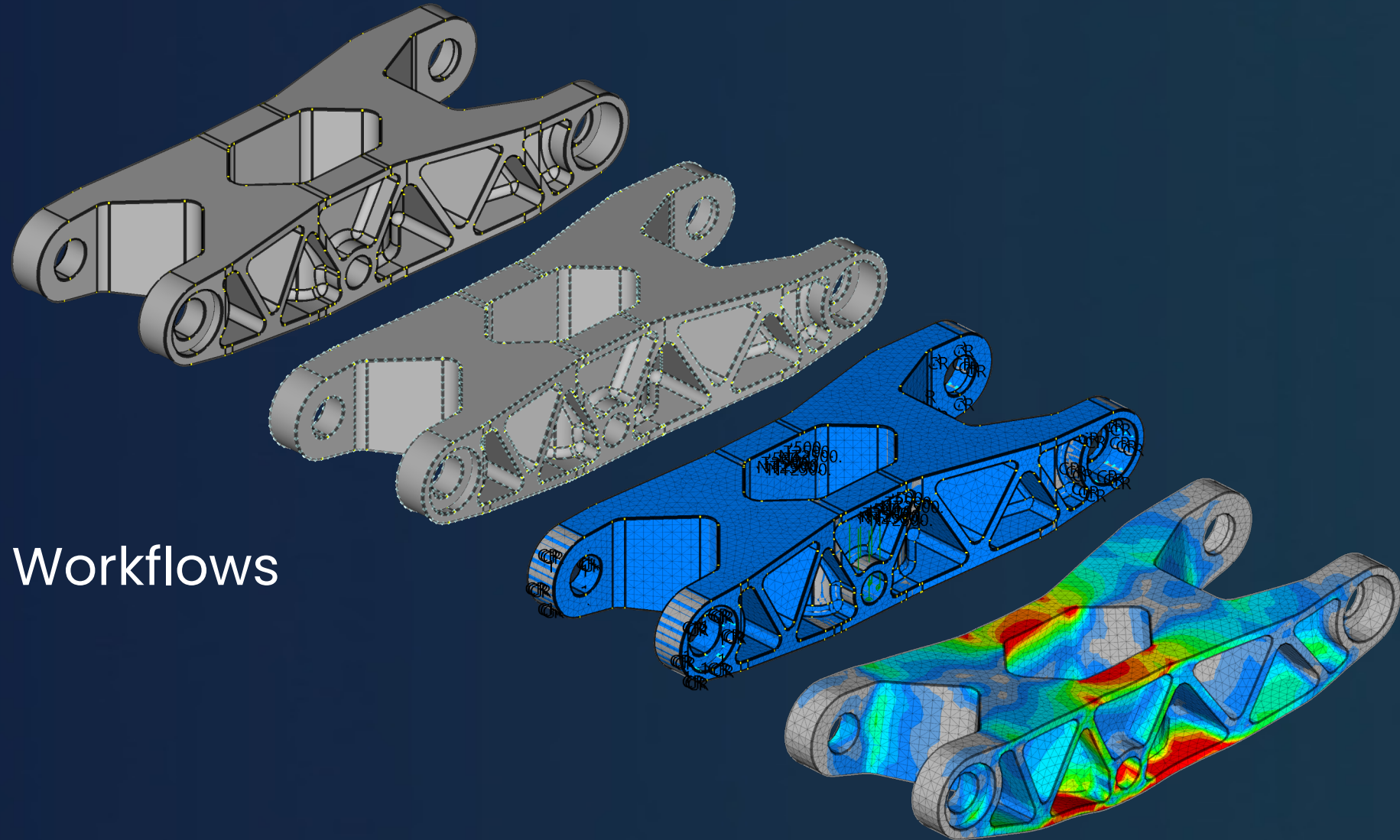# Simcenter Femap Best Practices:
Analysis Workflows

A Seminar for Simulation Engineers

Adrian Jensen, PE – Senior Application Engineer, CAE

Seminar Outline
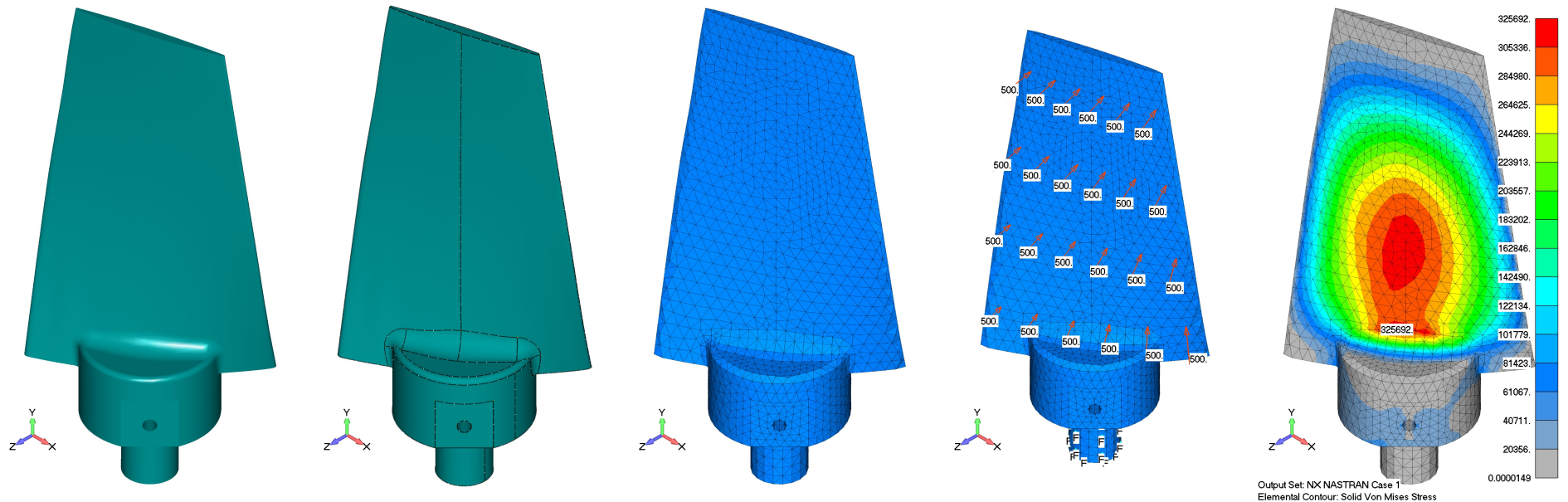

- Workflow Steps
  - Geometry
  - Material
  - Property
  - Mesh Sizing
  - Meshing
  - Loads
  - Constraints
  - Analyze

- Femap Analysis Workflows
  - Model Info Tree
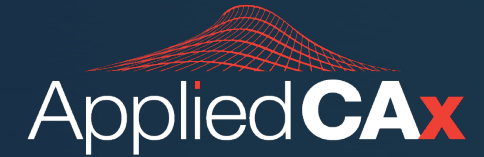 - File Menus
  - Selector Tool

- Femap API

Workflow Steps

- Geometry
- Material
- Property
- Mesh Sizing
- Meshing
- Loads
- Constraints
- Analyze

Regardless of the technique used (File Menus, Model Info Tree, Selector Tool), the workflow always follows the same sequence.

Model Info Tree Workflow

The Model Tree is quick and easy. It is recommended that one starts and the top and works their way down.
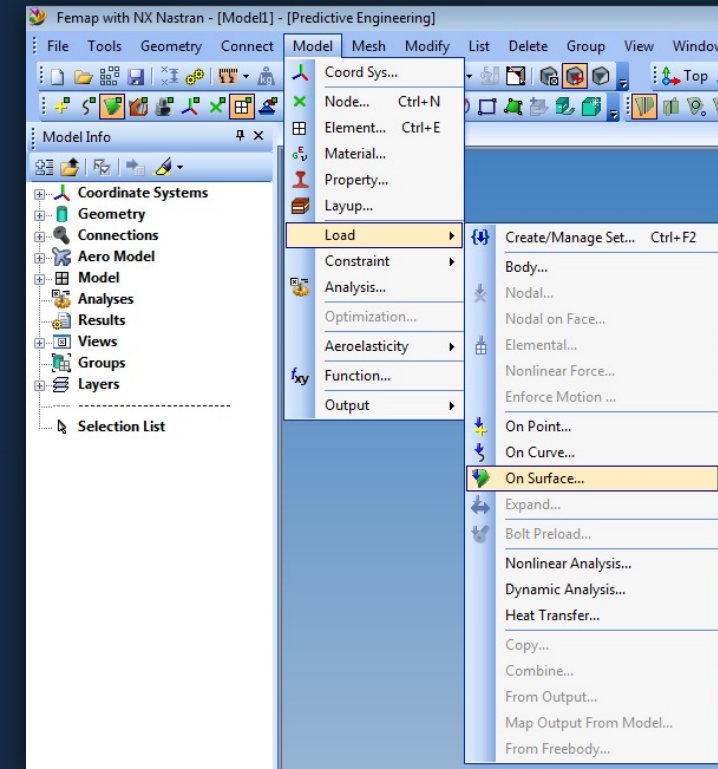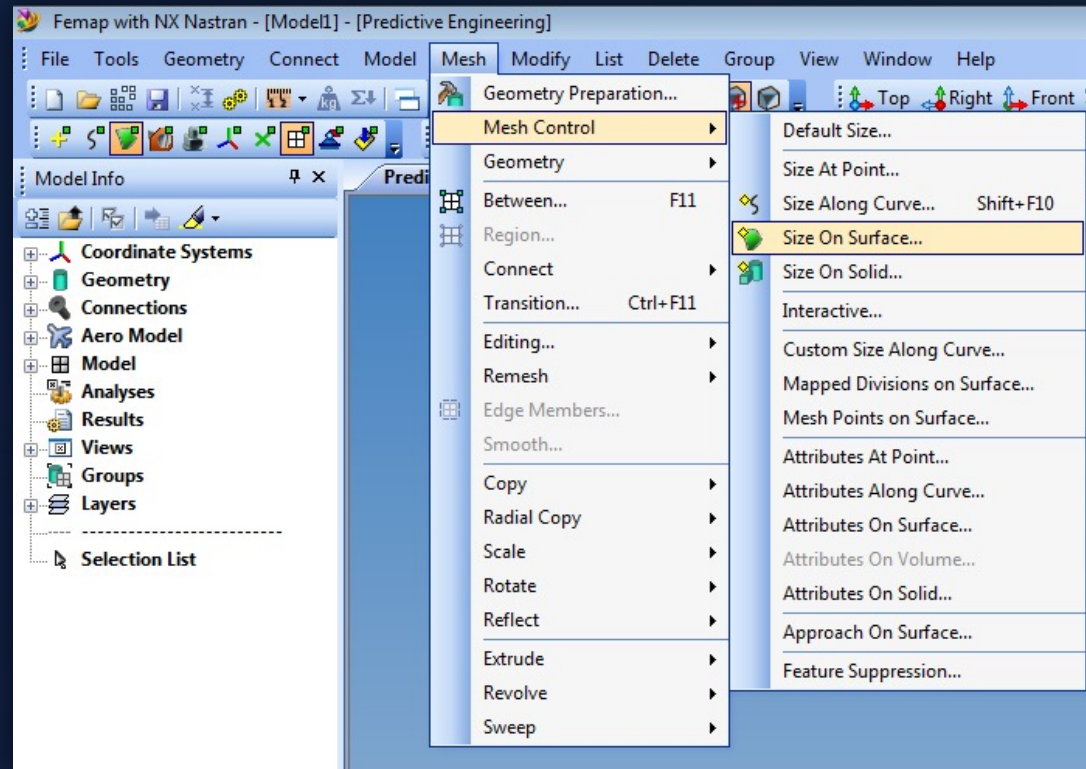
When advanced pre-processing is unnecessary, it is hard to beat the speed of the Model Tree.
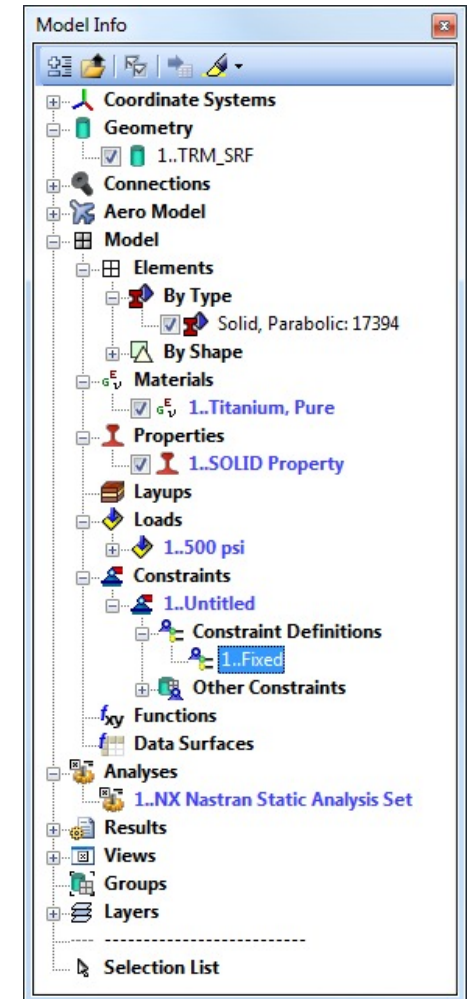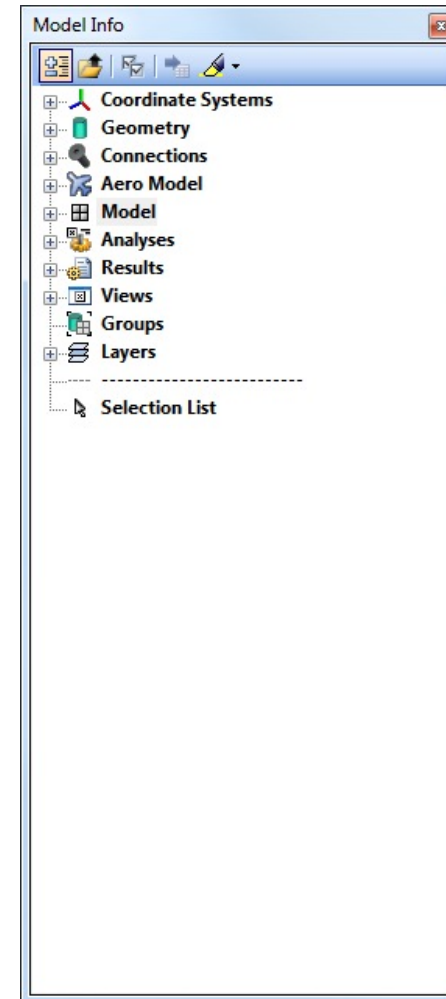
File Menu Workflow

The classic workflow approach. All commands are available and well labeled in the File Menus. This is a great workflow for dedicated analysts because you can see all modeling tools that Femap has to offer.

Selector Tool Workflow

The Selector is the perfect toolbox for the advanced analyst; it provides a combination of speed and a wide selection of options.

Once a given entity type is selected, relevant commands can be accessed with the right mouse button. The standard right mouse button commands can be accessed while holding CTRL. Visibility options can be accessed while holding SHIFT.
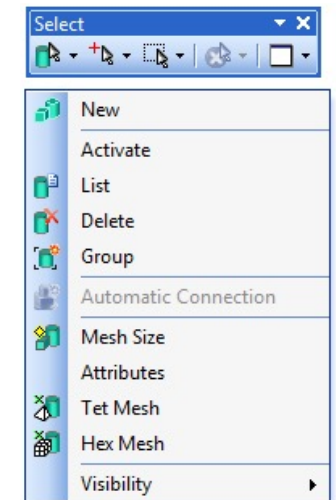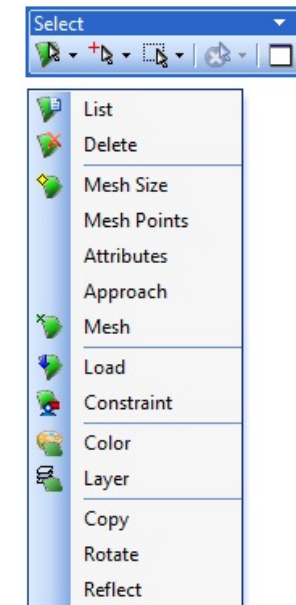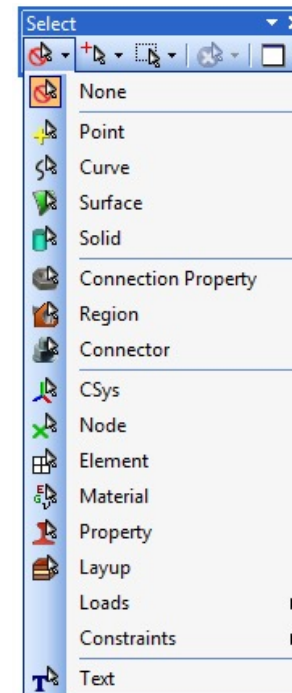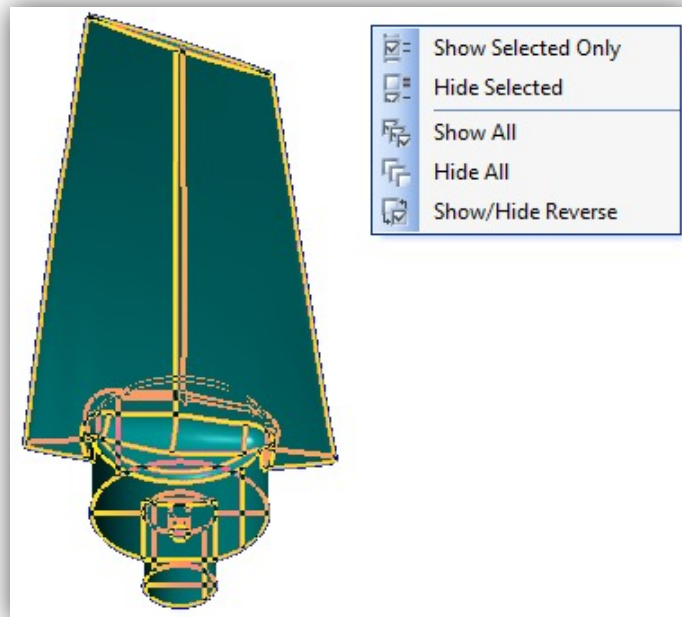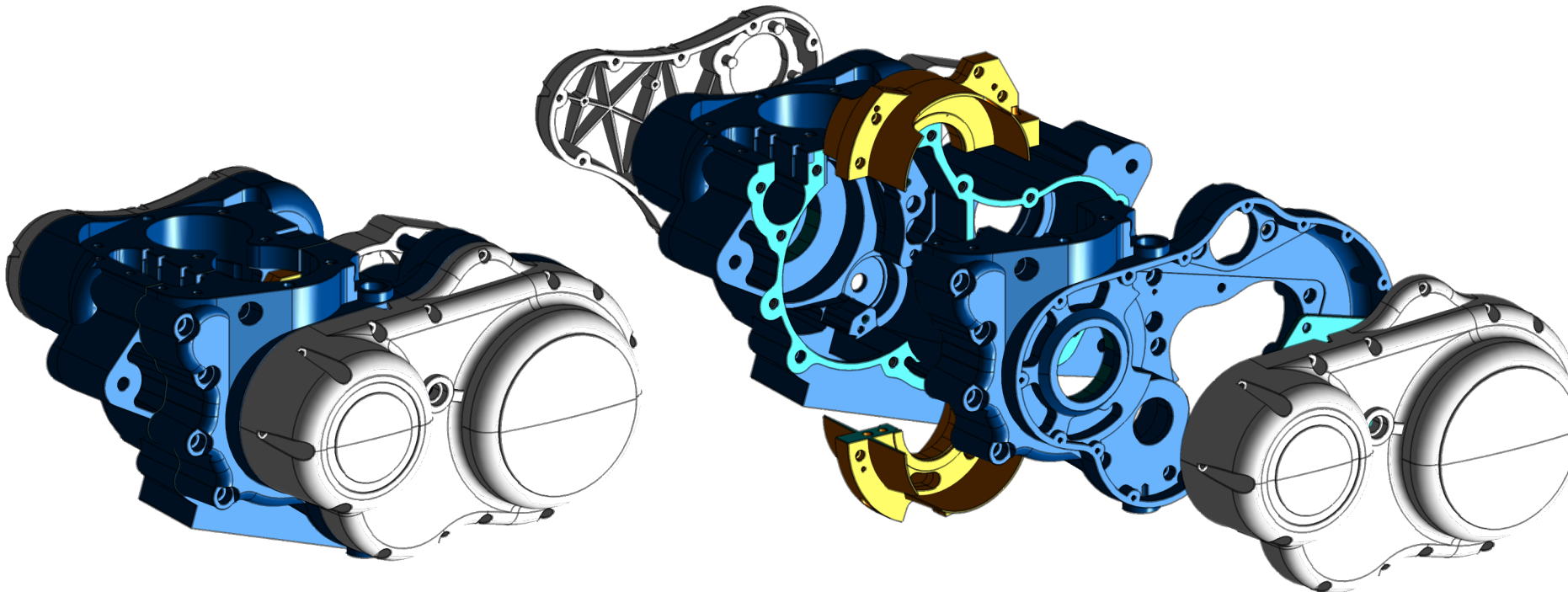
Femap API
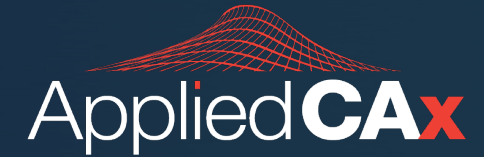
Creating User Commands and Custom Toolbars allows you to leverage the Femap API efficiently.

The "Move Solids" macros prompt the user to select geometric solids and then automatically moves them a fixed distance. This makes the process of exploding an assembly quick and easy.