# MapleSim™ CAD Toolbox

With the new MapleSim CAD Toolbox, you can see how your mechanical CAD models will behave as part of a larger, multidomain system, and apply MapleSim's advanced analysis tools to improve your designs. This toolbox makes it easy to import CAD models into MapleSim, automatically capturing the kinematic and kinetic properties of the model components.

- Easily import your CAD models into MapleSim, including kinetic and kinematic properties, and spatial relationships between components

- Investigate how your mechanical models will behave when part of a larger system by incorporating them in a multidomain, system-level simulation model

- Use MapleSim's analysis tools to investigate and optimize your CAD designs and final application
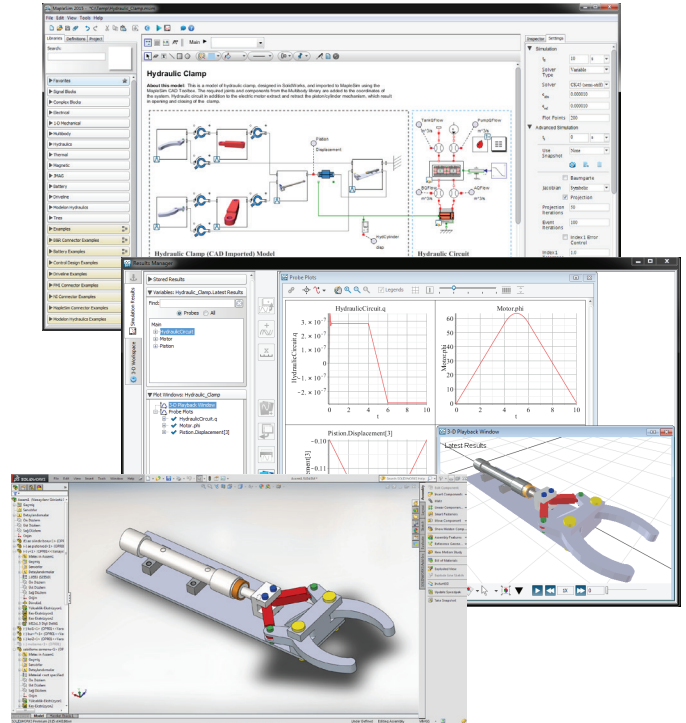
Key Features

- Imports CAD models directly into MapleSim, automatically recreating the model components using MapleSim components

- Automatically extracts inertia, mass, and available frame properties from the CAD model

- Offers feature detection, allowing users to easily add new coordinates at points of interest, such as the center of a hole or along the edge of a component

- Makes it easy to share coordinate frames between separate bodies, ensuring the bodies will be properly aligned when joined

- Automatically creates STL files from the imported model, which are attached to the corresponding MapleSim components

- Updates your MapleSim model with a push of a button when the underlying CAD model is changed

- Allows you to easily share the MapleSim version of your CAD model with other MapleSim users, even if they do not have access to the original CAD file, CAD program, or this toolbox

- Imports directly from Inventor®, NX®, SOLIDWORKS®, CATIA® V5, Solid Edge®, 3D ACIS® Modeler, Pro/Engineer® / PTC® Creo Parametric™, and Parasolid®

- Imports STEP and STL files, which can be exported from virtually any CAD system
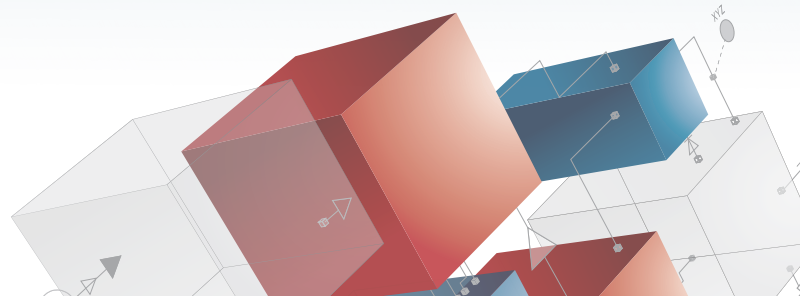
For More Information

Visit www.maplesim.com for product information, application stories, demo videos, a model gallery, and more.

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