

EnginSoft is a premier consulting firm in the field of Simulation Based Engineering Science (SBES) with a global presence. It was founded in 1984, but its founder and initial employees had been working in SBES since the mid '70s. Throughout its long history it has been at the forefront of technological innovation and remains a catalyst for change in the way SBES and CAE technologies in general are applied to solve even the most complex industrial problems with a high degree of reliability.

Today, EnginSoft is comprised of groups of highly qualified engineers, with expertise in a variety of engineering simulation technologies including FEM Analysis and CFD, working in synergic companies across the globe. We are present in Italy, France, Germany, the UK, Sweden, Turkey and the U.S.A. and have a close partnership with synergetic companies located in Greece, Spain, Israel, Portugal, Brazil, Japan and the U.S.A.

EnginSoft works across a broad range of industries that include the automotive, aerospace, defense, energy, civil engineering, consumer goods and biomechanics industries to help them get the most out of existing engineering simulation technologies.



-  **ITALY**
+39 0461 9153 91
-  **FRANCE**
+33 1 41 2299 30
-  **GERMANY**
+49 2234 60386 10
-  **UNITED KINGDOM**
+44 2476 9971 60
-  **NORDIC EUROPE**
+46 46 286 89 00
-  **TURKEY**
+90 216 504 11 53
-  **USA**
+1 469 912 0504



www.enginsoft.com | info@enginsoft.com



DATA SHEET



MBD for ANSYS
Multi-Body Dynamics
Powered by RECURDYN

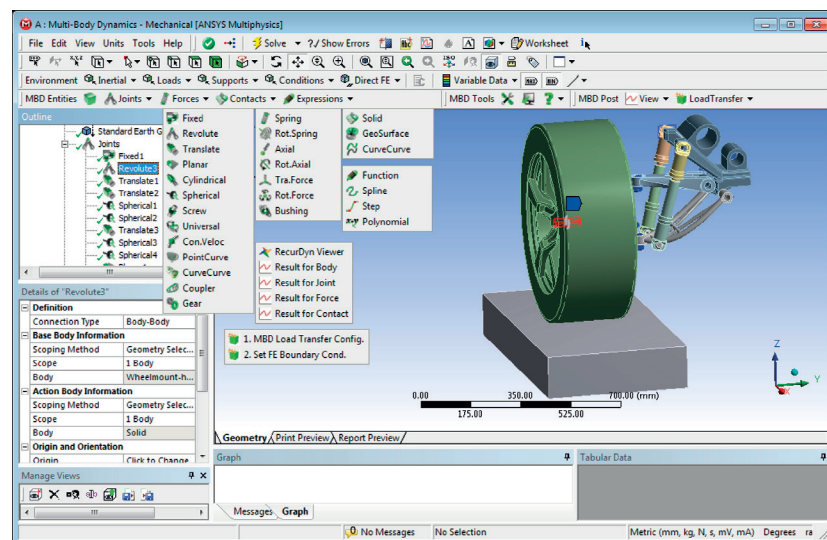
Professional Multi-Body Dynamics
Simulation Software

Professional Multi-Body Dynamics Simulation Software

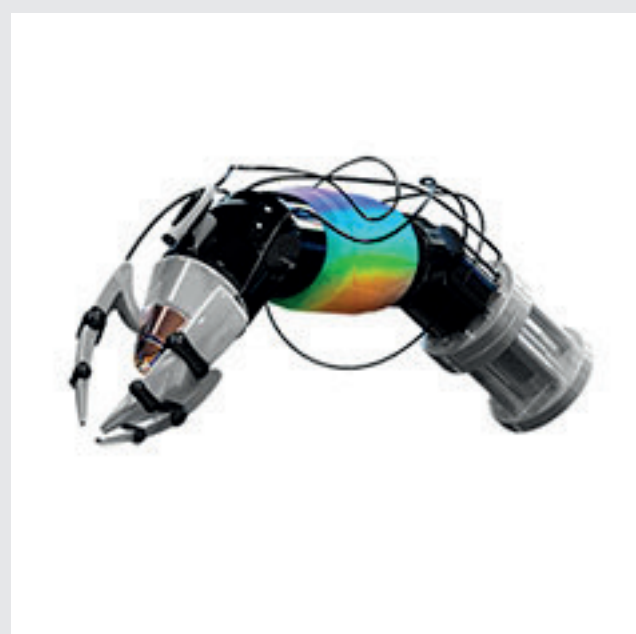
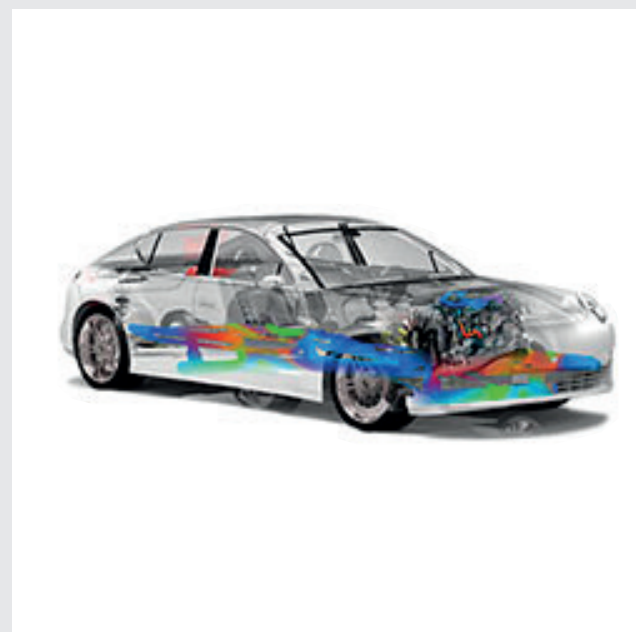
Have you ever wanted to access reliable Multi-Body Dynamics (MBD) capabilities within your ANSYS Workbench platform?

MBD for ANSYS is the innovative tool that brings both the premium quality of the recursive solver and the advanced contact technology of RecurDyn in the simulation environment you are already familiar with.

Reproducing the dynamics of your mechanisms and transferring correct loads to FE for detailed structural assessment of components has become an easy, fast and effective process.



MBD for ANSYS is a product



MBD for ANSYS brings powerful Multi-Body Dynamics (MBD) analysis capabilities within the ANSYS Workbench environment. This module allows ANSYS users to simulate kinematics and dynamics of moving mechanical assemblies, before going through the structural assessment. Starting from the time-domain multibody analysis, MBD for ANSYS automatically generates the Static Structural analysis cases and populates them with correct boundary conditions (loads) that are needed for component-level FEA. Moreover, MBD for ANSYS also serves as a bridge to more advanced MBD investigations, by allowing the user to export models to the stand-alone RecurDyn premium software.

Features

- ✓ Premium solver technology and contact technology inherited from RecurDyn.
- ✓ Defines load cases by selecting output points from the work cycle and automatically defines the static structural systems for the selected component.
- ✓ Provides MBD-specific advanced post processing.
- ✓ Provides a way to transfer the full MBD model to an advanced MBD tool when needed.

MBD for ANSYS software is tightly integrated into the Workbench GUI, for easy:

- ✓ MBD model development
- ✓ Editing and analysis
- ✓ Post processing

Dynamic models are represented through a tree-like scheme, such as any other type of simulation available in Workbench. All of the MBD for ANSYS menus fit in a single row of that appears in the Mechanical window. Selected menus are expanded when the relative functionalities are requested.