Building Information Modeling for Structural Engineering

Integrated tools for modeling, coordination, analysis, design documentation, as well as shop drawings and fabrication.

We have been using Robot Millennium software for more than 10 years because of its analysis performance as well as its design versatility for reinforced concrete, steel, and wood structures. We are looking forward to moving to Autodesk Robot Structural Analysis software and becoming even more productive and competitive.

— Grzegorz Bald
Vice President and Technical Director
Biprostal SA Engineering and Consulting, Poland

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Access learning materials and sign up for product expertise, a deep understanding of your industry, and take the knowledge beyond your software purchase. To purchase Autodesk Robot Structural Analysis Professional software, contact an Autodesk Premier Solutions Provider or Authorised Training Center in your region.

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Autodesk Robot Structural Analysis Professional 2010
Welcome to the new millennium.
Autodesk Robot Structural Analysis Professional software is a powerful analysis application with exceptional auto-meshing capabilities that can deliver fast and up-to-date results.

Modeling, Analysis, and Design
Autodesk Robot Structural Analysis Professional is a robust structural analysis software application that combines powerful analysis, modeling, and design capabilities. It includes an intuitive user interface, specifically created for structural engineers, allowing for efficient and easy-to-use structural analysis. The software can handle complex models, ranging from simple structures to highly sophisticated designs. It supports advanced meshing tools, including automatic and manual meshing, enabling engineers to deliver accurate results fast, shaping them in a user-friendly manner and ensuring the best possible design results.

State-of-the-Art Analysis Solvers
Autodesk Robot Structural Analysis Professional is a powerful, easy, and efficient tool for general linear static analysis. It also supports nonlinear analysis by incorporating advanced capabilities to perform nonlinear analysis, such as the analysis of cable-stayed bridges, suspension bridges, and concrete structures. The software enables engineers to link analysis results into structural analysis tools, providing structural engineers with the ability to go beyond the capabilities of Autodesk Revit. It contains integrated reinforced concrete and steel analysis tools, allowing structural engineers to effortlessly switch between the two environments without losing any data.

Multilingual for Global Markets
Autodesk Robot Structural Analysis Professional can be used in a variety of languages, providing flexibility to address international projects. The software supports over 30 languages, including French, Romanian, Spanish, Russian, and Polish. This allows engineers to work with engineering data from around the world, ensuring that all international codes and standards are met. It also includes country-specific analysis codes, covering reinforced concrete structures, steel structures, and composite structures. The software supports the use of international standards, ensuring that your project is compliant with global regulations.

Extending Capabilities with an Open API
The concept of linking applications together to provide a high value solution is not new, but few tools offer the practical approach of Autodesk Robot Structural Analysis Professional. The open API allows for the development of custom applications that can be integrated with Autodesk Robot Structural Analysis Professional or other Autodesk companion products. The open API provides a robust platform for building custom solutions, enabling engineers to seamlessly integrate their analysis capabilities into other software programs. The open API also includes an intuitive user interface specifically designed for structural engineers, ensuring that the solution is easy to use and efficient.

Unmatched Versatility and Region-Free Analysis
The product comparison chart provides the ability to view tables and model views in a customizable format. Results and maps are sent to the user’s local computer automatically after analysis. Users can create their own custom codes, allowing for a wide range of analysis possibilities. The software supports a variety of analysis types, including general linear static analysis, eigenvalue analysis, and nonlinear behavior of a structure. The software also supports the analysis of complex structures, such as cable-stayed bridges and suspension bridges. The software can also handle various types of analysis, including static, dynamic, and nonlinear, providing comprehensive analysis capabilities.

We’re very pleased with Autodesk Robot Structural Analysis Professional, which comprises powerful advanced analysis capabilities and the multiversal design expertise in one software structural package. Without a doubt, this solution helps us better respond to our clients’ challenges and stay more competitive.

— David Monteiro, Principal, Structural Engineer, GF Structures

Autodesk Robot Structural Analysis Professional’s powerful meshing and modeling capabilities enable structural engineers to quickly create a high-quality finite element mesh. The many meshing tools available enable structural engineers to effortlessly mesh around openings of any shape and size. Engineers can use tools to efficiently add, copy, remove, and edit geometry, including beam framing layouts. Engineers can use tools to work with even the most complex models. Advanced Auto-Meshing and Modeling Capabilities

Advanced Auto-Meshing and Modeling
Autodesk Robot Structural Analysis Professional is a robust meshing and modeling software application with exceptional meshing and modeling capabilities. It includes powerful meshing tools, including automatic and manual meshing, enabling engineers to deliver accurate results fast. The solution is ideal for structural engineers with expertise in one area, multimaterial design, and the ability to code parametric structures in Autodesk Robot Structural Analysis Professional and postprocessing software, such as specialized AutoCAD Structural Detailing software.

Bidirectional Links with Autodesk Revit Structure
Select design data to AutoCAD Structural Detailing software, providing an integrated workflow from analysis through design to Shopdrawings. The solution is designed for the modeling, analysis, and design of structural steel, composite structures, and reinforced concrete structures. It includes an intuitive user interface specifically designed for structural engineers, ensuring that the solution is easy to use and efficient.