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Autodesk Inventor 2010

The Autodesk Inventor 2010 product line provides new usability and productivity enhancements for 3D design, simulation, plastic part creation and data exchange. Autodesk Inventor software, the foundation of the Autodesk solution for Digital Prototyping, produces an accurate 3D model that enables users to validate the form, fit and function of a design before physically building it. The Autodesk Inventor 2010 product line incorporates powerful, but easy-to-use, desktop technology to help users create accurate digital prototypes that bring better products to market faster and at less cost.

What's New

Plastic Part Design

- Autodesk Inventor 2010 provides designers with the tools they need to be more productive and competitive. Multibody workflows, specialized plastic features, rule-based fillets and associative import of exterior or A-side geometry from the Autodesk Alias family of software give Inventor 2010 users the tools for designing complex molded parts (that update smoothly when changed) without requiring a lot of detailed geometry construction or intermediate steps.
- The Autodesk Inventor product line includes a new application, Autodesk Inventor Tooling (included in Autodesk Inventor Professional), for designing complex molded parts. It includes automated tools that use the digital prototype to quickly create and validate complete mold designs, helping to reduce errors and improve mold performance.

Simulation and Layout Design

- The new Sketch Blocks in Inventor 2010 provide a logical representation of both rigid and moving bodies that can be combined into 2D kinematic models for detailed motion studies on different mechanisms. Inventor Sketch Blocks can be used to populate the assembly with correctly constrained part models based on the finished sketch.
- Inventor 2010 offers an enhanced, integrated simulation environment for motion simulation and finite element analysis of both parts and assemblies. Support for modal analysis, parametric studies and optimization makes it much easier to perform what-if studies to select the best design option and then push the resulting geometry back into the assembly model.

Interoperability and Data Exchange

- With the new Shrinkwrap feature, users have a new level of control over the simplification of large assemblies. They can quickly convert an assembly into a single part or surface model for use as an assembly substitute or to protect intellectual property when sharing models with third parties.
- The enhanced AEC Exchange environment simplifies the exchange of data for use in building design. With support for the new Autodesk Package files (.*adsk*) and the Shrinkwrap tool, AEC Exchange enables users to publish data files with simplified 3D representations and intelligent connection points for use in building models created using Revit MEP and Revit Architecture software.
- Inventor 2010 software includes new translators for CATIA® V5 R6 through R18 as well as enhanced JT® support for reading and writing JT files.

Usability and Productivity

- A new task-based user interface enhances usability and productivity. Inventor 2010 software also includes many user-requested improvements, such as user-defined browser folders, user-defined coordinate systems, document tabs, improved spline handles, auto-save option and many more.
- This release includes new sheet metal tools that simplify the creation of rolled features and lofted flanges, such as square to round transitions. It also provides Unfold and Refold features, making it much easier to define features.

- Drawing Manager highlights include Aligned Section Views, dual units display and a new Arrange Dimensions tool.
- Inventor 2010 software includes many enhancements designed to lower the cost of ownership: local, or desktop, content that doesn't require installation of SQL/ISS on the user's desktop; dynamic network licenses; and downloadable language packs (available only in certain regions).

Editor's Note: The new capabilities above describe features of Autodesk Inventor, Autodesk Inventor Suite, Autodesk Inventor Automation Pro, AutoCAD Inventor Professional Suite, AutoCAD Inventor Routed Systems Suite and AutoCAD Inventor Simulation Suite. Inventor LT software does not include all features described in this product backgrounder.

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