

SOLIDWORKS CONCEPTUAL DESIGNER

OBJECTIVE

Innovative conceptual design is at the core of any successful product. SOLIDWORKS® Conceptual Designer, powered by Dassault Systèmes 3DEXPERIENCE® platform, removes the constraints of traditionally structured design programs with a flexible, intuitive, and powerful modeling environment that turns every challenge of conceptual design into a business advantage.

SOLIDWORKS Conceptual Designer enables designers to rapidly create, innovate, and collaborate during the concept design phase. SOLIDWORKS Conceptual Designer delivers a truly collaborative design environment that enables design teams, customers, and suppliers to communicate and develop products together, wherever they are located. Combining the best-in-class technologies from Dassault Systèmes with SOLIDWORKS' famous ease of use, SOLIDWORKS Conceptual Designer gives design teams unsurpassed flexibility and intuitive workflows to create concepts that capture truly lifelike behavior, so designers understand how their products will interact with the real world.

OVERVIEW

At the core of SOLIDWORKS Conceptual Designer is Dassault Systèmes 3DEXPERIENCE platform and the single modelling environment which enables users to design without the constraints of traditional part assembly and CAD systems. It is targeted to designers and engineers who create mechanical moving components, conceptual 3D layouts, and prismatic shapes. Within the Single Modeling Environment (SME), users create geometry before defining any parts or assembly structure, allowing designers to concentrate on solving design challenges rather than worrying about design deliverables. With SOLIDWORKS Conceptual Designer's innovative method of creating geometry, users can be more productive than their competition. The SME allows users to build models using a parametric, history-based approach combined with the flexibility of direct editing (where you push and pull features). Unlike other solutions, these two methods can be mixed in a single model, providing rapid development without sacrificing model intelligence.

SOLIDWORKS Conceptual Designer leverages data storage in the cloud to ensure that data is always safe, up-to-date, and available to all members of the product development team. This reduces product ambiguity by allowing everyone to access the design in real time and provides the tools needed to communicate design/product needs. This connectivity allows teams to design wherever and whenever they want.

BENEFITS

- Single modeling environment allows much greater flexibility, where final 2D design can be easily converted to 3D.
- The online database avoids the danger of overwriting and offers easy access to ensure that everyone on the design team always has the latest data.
- Web-based collaboration tools allow everyone to review the live design data, add their comments, and create digital markups. All design review data is retained to help capture what was done, and why.
- All design variations are stored in a secure vault with access from anywhere, anytime.
- Robust direct editing tools allow you to modify imported models more efficiently and to modify native parametric models without restrictions. (History-based features not impacted by the changes are retained.)
- Secure cloud-based storage and on-premises solutions address customer data storage needs. Employees, customers, and vendors can all access data from a single source with full device independence.

CAPABILITIES

SOLIDWORKS Conceptual Designer enables designers to rapidly create and collaborate during the concept design phase.

SOLIDWORKS Conceptual Designer is built upon four pillars:

- **Conceptual:** Users develop and express design ideas the way they want, enabling them to present and sell them directly in a digital model.
- **Instinctive:** Design the way users think, capture concepts digitally, and develop solutions without constraints.
- **Social:** Use familiar social collaboration tools in an interactive environment to harness the collective intelligence and innovation of employees, customers, and vendors.
- **Connected:** Enhance collaboration with design iterations automatically saved in a single, common database. This keeps data safe, up-to-date, and accessible anytime, anywhere.

Powered by the Dassault Systèmes **3DEXPERIENCE** platform, SOLIDWORKS Conceptual Designer provides a secure, structured, and informed environment for design team leaders, project managers, and other professionals who want to manage data in the cloud and collaborate without constraints.

- **Secure:** Customer-controlled access, transparent cloud backup, and encrypted communication protocols ensure that data is always safe from loss.
- **Structured:** Zero-overhead data management. Users can store and manage data across collaborative spaces, share information in communities, and find indexed data faster by using tags and custom search.
- **Informed:** A widget library lets users create and share dashboards so they can always have access to the latest data.

SOLIDWORKS Conceptual Designer requires the **3DEXPERIENCE** platform, an online-based, zero-overhead, transparent online data management and social innovation solution. The platform includes:

- **3DDashboard**, an analytics and dashboarding app, allowing for personalization and sharing of multiple dashboards for each user, with an extensive and extensible widgets/apps catalog.
- **3DSwYm**, a social and collaborative app, enabling enterprise-wide social collaboration via communities that can consist of internal and external audiences.

- **3DPlay**, a 3D modelling app, allowing for immersive visualization and animation of data stored in the **3DEXPERIENCE** platform (does not include 3D modelling capabilities).
- **3DSearch**, a powerful search capability allowing users to search through any metadata or files stored in the platform.
- **6WTags**, an innovative results-filtering tool. It is an innovation unique to the **3DEXPERIENCE** platform, that allows quick and intuitive navigation and filtering based on who, what, when, why, where, and how.
- **3DMessaging**, an embedded instant-messaging tool, allowing users to chat and collaborate in an engineering or social context.
- **3DPassport**, an easy way to safely sign-in, provides a Single Sign-On (SSO) to all applications that the user has access to—regardless of whether they are browser-based or native clients.
- **3DCompass**, an access to all your apps, is an intuitive, compass-like interface providing easy-to-use navigation to the user's applications.
- **3DDrive**, a place to store, sync, share and preview a user's CAD files and office documents. It is an easy-to-use application for storing, syncing, sharing, and previewing users' files. It also allows light design review and contains 25GB of online data storage per license.
- **3DSpace**, a data management app enabling users to structure engineering collaboration via Collaborative Spaces while controlling third-party user access to the data.
- **Collaborative IP Management**, a product lifecycle management app enabling collaboration on shared data (with Collaborative Spaces). It enables creating, duplicating, deleting, exchanging, liking, and managing content.
- **Collaborative Tasks**, a tasks management app, enables you to easily organize, optimize, access, and execute users' work with simple, "one-step" task creation that can reference files or existing objects already available in the **3DEXPERIENCE** platform.
- **Finders** are dedicated search apps. Manufacturing, Simulation, Product, and Systems data can be easily found using these dedicated apps which provide dedicated navigation capabilities.

SOLIDWORKS Conceptual Designer Software as a Service (SaaS) that will be priced locally per user, per year.

Our **3DEXPERIENCE**® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the **3DEXPERIENCE**® Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 220,000 customers of all sizes in all industries in more than 140 countries. For more information, visit www.3ds.com.

