SOLIDWORKS eDRAWINGS

OBJECTIVE

eDrawings® is the premier 2D and 3D design communication and collaboration tool that you can use to speed up your design process and get you to market faster.

OVERVIEW

eDrawings enables organizations to leverage their 3D design data to communicate with clarity and precision. eDrawings removes the inherent product data ambiguities of 2D drawings in a lightweight file which is easily shared via email. Collaboration is improved using the markup capabilities within eDrawings for a two-way design communication with internal and external stakeholders. And Intellectual Property (IP) control is maintained by disabling the measuring tool and file-saving capabilities when needed.

Augmented Reality (AR) and Virtual Reality (VR) modes in within eDrawings mobile and desktop delivers exceptional design communication by allowing you to view your designs and concepts in the context of the real world. eDrawings enables companies to understand the impact of the environment on design choices and can communicate these design influences more clearly. By viewing a design in the real world, everyone is able to understand the value of design alternatives throughout the product development process.

BENEFITS

- Collaborate with a lightweight 3D format without the need for CAD while protecting your IP.
- Interrogate and investigate product design data in 3D for precision and clarity.
- Enable bi-directional design communication and reviews both internally and externally.
- View your designs in AR and VR to better understand the impact of the real world on your design.
- Available for Windows®, Mac® and mobile devices.

CAPABILITIES

eDrawings Viewer

For the non-CAD professional, eDrawings Viewer enables anyone to quickly and easily view, print and review eDrawings, SOLIDWORKS®, and AutoCAD® DWG and DXF files. eDrawings Viewer is available for Windows, Mac and mobile devices for true cross-platform design collaboration and communication.

With eDrawings Viewer you can create review-enabled eDrawings files that allow an unlimited number of recipients to mark up and provide feedback on product designs. With eDrawings Viewer users can communicate and collaborate with clarity to maximize smooth product development.

eDrawings Professional

For the CAD professional, eDrawings Professional enables designers to both share product data and coordinate design reviews. Available for both Windows and Mobile platforms.

eDrawings Professional Desktop users can either stream and AR experience through the Microsoft HoloLens or launch a VR experience into HTC Vive connected to the desktop.

For eDrawings Professional Mobile users, Augmented Reality/Virtual Reality mode enables designers to share and show 3D designs and concepts that can be viewed in the context of the real world. All project stakeholders can understand the impact of real world constraints on designs and gain greater understanding of products and proposals.

Save as eDrawings Web HTML file enables eDrawings professional users to share the designs to users who have access to web browsers who support HTML 5.

eDrawings Publisher

Share eDrawings files from your native CAD system to enable easy design communication across CAD environments with the click of a button. Reduce bandwidth requirements more than 95% by publishing and emailing eDrawings files instead of CAD files.

General Capabilities

- Ultra compact files
- Support for Windows, Mac, iOS® and Android®
- Password protection (Windows Professional ONLY)
- Embed an eDrawings file within a Microsoft® PowerPoint® presentation

eDrawings Viewer

- 2D Drawing layouts
  - SOLIDWORKS drawings (.slddrw)
  - DXF/DWG files (.dxf, .dwg)
- 3D CAD
  - SOLIDWORKS native files (.sldprt, .sldasm)
  - eDrawings native files (.edrw, .eprt, .easm, .edrwx, .eprtx, .easmx)
    - Pro/ENGINEER® files (.prt, .prt., .xpr, .asm, .xas)
    - 3DXML files (.3dxml)
    - STL Files (.stl)
- View SOLIDWORKS design analysis results
- Save as (Desktop only)
  - This feature can be disabled.
  - STL, TIFF, JPEG or BMP formats
- Print
  - Print 2D drawings from eDrawings.
  - Play previously created SOLIDWORKS animations.
- Mass properties
  - View component mass properties if available.
- Application Programming Interface (API)
  - For workflow customization
- Mark Up
  - Read MBD annotations.
  - Create and share annotations.
- Measure
  - This feature can be disabled.
  - Measure model to determine missing manufacturing data.

- Section
  - Use dynamic section planes.
- Move components and exploded views
  - Play exploded views or pick and move components.
- View configurations
  - Has support for multiple component configurations in one file.
- Animations

Immersive Viewing Mobile ONLY

- Augmented Reality
  - Model scales to product marker. Automatic tracking of marker.
- Virtual Reality
  - Uses Google Cardboard type devices.

System Requirements

- Windows 8.1 (64-bit)
- Windows 10 (64-bit)
- Mac 10.10, 10.11 and 10.12
- iOS
- Android

eDrawings Professional

- Augmented Reality
  - For Microsoft HoleLens only
- Virtual Reality
  - Requires HTC Vive
- Save as (windows only)
  - eDrawings web HTML

eDrawings Publisher

Supported applications

- SOLIDWORKS 2005 or later
- Pro/ENGINEER 2001, Pro/ENGINEER WildFire 1.0, 2.0, 3.0, 4.0 and 5.0
- CATIA® V5 R14, R15, R16, R17, R18 and CATIA V5 R19
- Unigraphics®: NX3, NX4, NX5, NX6 and NX7
- Autodesk® Inventor® 8, 9, 10, 11, 2008, 2009 and 2010
- Solid Edge® V17, V18, V19, V20, ST and ST2
- RapidFire Lite (View/Publish IGES, STEP and STL files)
- SketchUp® (Free/Professional) 5.0, 6.0 and 7.0

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