



3DEXPERIENCE® Works
3S SOLIDWORKS

3DEXPERIENCE SOLIDWORKS

**The Future of Design is
Collaboration**

Connecting the industry-leading SOLIDWORKS® 3D CAD solution to the 3DEXPERIENCE platform, a single cloud-based product development environment.



3DEXPERIENCE SOLIDWORKS Authorized Reseller in Thailand
by Metro Systems Corporation PLC.

🌐 @METRODES 📞 02-089-4145

SOLIDWORKS Packages

No matter what you are creating, designers and engineers need the best tools and solutions to develop the next great high-quality product, bring that product to market, and meet customer demands.

SOLIDWORKS

DESKTOP



SOLIDWORKS PERPETUAL LICENSE WITH SUBSCRIPTION & CLOUD SERVICES

Our flagship product Proven, industry-leading CAD solution for designers, engineers, and more.

SOLIDWORKS 3D CAD Plus additional collaborative roles, connecting your CAD to the 3DEXPERIENCE platform.

Modules

Standard

Professional

Premium

License Type

Standalone License

Network License

Benefits

- ✓ Easy-to-learn
- ✓ Shorten product development time
- ✓ Reduce costs
- ✓ Improve quality
- ✓ Product Lifecycle Management
- ✓ Ownership of software



SOLIDWORKS TERM LICENSING

SOLIDWORKS Term Licensing enables you to reduce your upfront software costs while providing immediate access to new SOLIDWORKS releases and upgrades, and the flexibility to change products at the end of each term.

Modules

Standard

Professional

Premium

License Type

Standalone License

Network License

Benefits

- ✓ Easy-to-learn
- ✓ Shorten product development time
- ✓ Reduce costs
- ✓ Improves quality
- ✓ Product Lifecycle Management
- ✓ Flexible payment
- ✓ Flexible usage

SOLIDWORKS

CLOUD



3DEXPERIENCE SOLIDWORKS

SOLIDWORKS 3D CAD with a built-in connection to the 3DEXPERIENCE platform

Proven CAD solution with a direct connection to cloud-based collaboration and data and lifecycle management solutions.

Modules

Standard

Professional

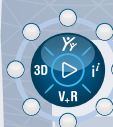
Premium

License Type

Named User License

Benefits

- ✓ Flexibility to use on multiple PCs
- ✓ Next-generation, browser-based design tools
- ✓ Connect and collaborate with stakeholders inside and outside of your organization



SOLIDWORKS CLOUD OFFER

Entirely browser-based, device-agnostic CAD, collaboration and data and lifecycle management solution

Modules



xDesign



xShape



xFrame



xSheetMetal



xStudio



xDrawing

License Type

Named User License

Benefits

- ✓ CAD and product development tools that you can use anywhere
- ✓ Able to access and edit your data on any device
- ✓ Enhance your business with next-generation, browser-based tools that scale as you grow

STANDARD

FOR MECHANICAL DESIGN

A suite of tools to speed up and unlock the benefits of designing, for solving problems in terms of time, to create 3D modeling and 2D Drawing faster with specialized tools such as Sheet Metal, Weldments, Surface and Mold. With all these tools, you can easily and rapidly deliver the best designs to your customers.



Standard Offer includes:



3D Creator

Create, evaluate, and collaborate in an easy-to-use, browser-based solution that meets all your parametric 3D design needs



**Best-in-class
Functionality Built
Right In**



**Reduce Time
and Rework**



**a Makes
the Dream Work**

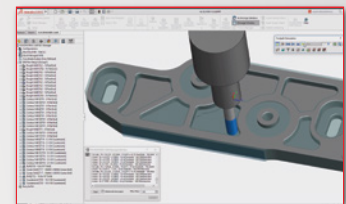


Animation

Quickly and easily create powerful animations of your design from the 3D model to more easily communicate your design intent, product functionality, and assembling. A video presentation is a very effective method for communication between people who know the procedure and who don't.

CAM Standard (*Active Subscription only)

Combine process of designing and manufacturing in one system to reduce designing time and errors that can easily occur, by generating G-code from SOLIDWORKS to make the machine (2.5 axes) work properly.



Assembly Modeling

Supports Top-Down Design and Bottom-up Design, including the ability to manage the memory of computers with the most stability for working with a large assembly.

Part Modeling

Supports Parametric Change, which can change dimension of the model easily, Design Table, for quickly designing similar part, and SWIFT technology to help you design faster

3D Interconnect

Lets users work seamlessly with CAD data from different CAD systems such as Catia, NX, Inventor, Solid-Edge, iges, step, parasolid, etc. without any conversion. The opened files have perfection like the original in every respect.

Weldment and Structure

Creating structures and weldments easily with various structural member profiles and corner trim types.

Surface Modeling

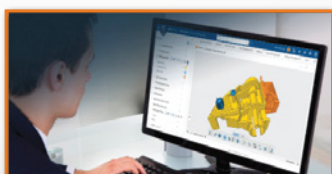
A set of tools for creating and fixing complex shaped model that cannot be created from solid. With the ability of Advanced 3D Sketch, users can easier control the shape of the surface.

Sheet Metal

For designing Sheet Metal part (Bending) and creating flat pattern accurately by calculating according to Yong's Modulus of material. Reduce errors in finding the area of flat pattern for production.

2D Drawing/Drafting

To create 2D Drawing by selecting views from 3D model, define symbols, and create BOM table automatically. The 2D drawing also maintains a fully associative link to the 3D model, so if any updates are made to the model, then drawing are also updated immediately.



Collaborative Industry Innovator

Securely access product data, basic lifecycle management, and compliance services and enable real-time, secure and structured collaboration on product content.

3DSwymer

3DSwymer on the 3DEXPERIENCE® platform helps you empower innovation and manage your business by connecting employees, partners and customers across your ecosystem to collaborate.



3D Creator

3DEXPERIENCE SOLIDWORKS Standard

Collaborative
Industry Innovator

3DSwymer

PROFESSIONAL

FOR DESIGN COLLABORATION

Gives you all the power of SOLIDWORKS Standard package with additional design features, Product Data Management (PDM), Visualization, Tolerance Stackup Validation, Design Standard Checking, Toolbox, and Smart Fasteners.



Professional Offer includes:

3D Creator

3D Sculptor



3D Sculptor

Create organic, complex shapes quickly with this easy-to-use, browser-based solution with fast and flexible capabilities.



Sculpt, Play and Communicate in the Cloud



Stylized 3D Models in a Snap



Highly Interoperable and Interchangeable



Built-in Data Management and Collaboration

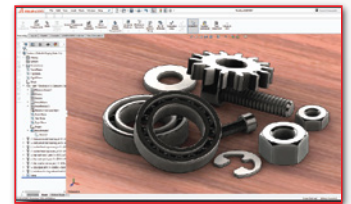


Visualize Standard *(*Active Subscription only)*

To create realistic images from 3D model by defining background, materials and colors, including setting light and shadow and view. With one click, users who don't know about light and shadow can easily create virtual images.

Toolbox

SOLIDWORKS Toolbox is a vast component library containing over a million standard hardware items. These components can be used "as is" or can be customized to meet your specific company standards. Hardware items can be easily dragged and dropped into your assembly, speeding your design work and helping complete your bill of materials (BOM).



Tolerance Stackup Validation

TolAnalyst for checking tolerance in any position. And check for the acceptable range. With DimXpert allows to configure coordinates to model accurately before production.

Scanto3D

Support Reverse Engineering by converting scanned data of physical products from 3D Scanner into SOLIDWORKS 3D CAD geometry.

eDrawing Professional

For sending 3D and 2D CAD files to other users for communication, which the file can measure the sizes and see movements, section views, including print files, without SOLIDWORKS program, so users can communicate more accurately.

Smart Fasteners

Tools for assembling nuts and screws by searching location and size of all holes on assembly, then inserting the appropriate size of nuts and screws for each holes all automatically.

Design Standard Checking

Establish design standards and easily check drawings (or models) with SOLIDWORKS 3D CAD software to create uniform designs and documentation.

Costing

An automatic cost estimation tools are fully integrated with 3D CAD, enabling designers and engineers to continuously check their designs against cost targets. Users can specifying templates, price calculations and layouts of each organization. Easily monitor manufacturing costs as you design, thereby avoiding costly redesigns and production delays later on.

Collaborative Industry Innovator

3DSwymer

3DEXPERIENCE SOLIDWORKS Professional

PREMIUM

FOR DESIGN VALIDATION

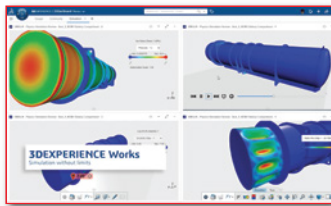
An advanced 3D CAD software package, enhances the abilities to design and simulation added from SOLIDWORKS Professional package, including ECAD/MCAD, Reverse Engineering, and Advanced Routing Function. Boosting product development, Reducing costs, Increasing product quality with precise and easy-to-use tools. For creating, validating, communicating, managing product and data, accelerating time to market.

3D SOLIDWORKS

Premium Offer includes:

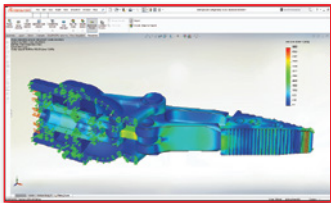
3D Creator

3D Sculptor



3DEXPERIENCE SOLIDWORKS Simulation Designer

Suitable for structural designers who need to simulate the design for quality evaluation before passing to production process by specifying conditions that need to be tested from the design process. This helps designers to develop product quality and reduce production costs.



Assembly Simulation

An advanced simulation tools for analyzing the strength of an assembly before production by defining working conditions such as Clamping Point and Action Force.

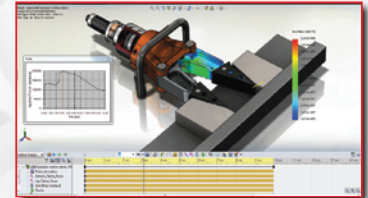
Motion Analysis

Tools to analyze mechanical movements, for calculating the used power to move at the speed of rotation, including the force caused by the movement, by using the action force arising from the motion to analyze the strength of design.



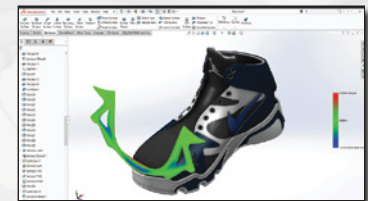
Routing

Allows designers to quickly design accurate wire/tube/pipe routes by setting the start point and the end point. The program creating the system layout and putting accessories such as fittings and joints automatically.



Advanced Surface Flattening

Allows users to calculate the size of flat pattern made from leather or composite materials, by showing where problems may occur when the part is stretched or contracted in flat pattern.



Simulate Welded Structures

Analyze the strength of the weldments under loads on a structure or model with quickly display and effective tools.

Sustainability

To make design decisions that can influence the overall sustainability of your product with the method of assessing the life cycle of Product (LCA)

Advanced Surface Flattening

Allows users to calculate the size of flat pattern made from leather or composite materials, by showing where problems may occur when the part is stretched or contracted in flat pattern.

3DEXPERIENCE
SOLIDWORKS
Simulation Designer

3DEXPERIENCE SOLIDWORKS Premium

Collaborative Industry Innovator

3DSwymer

SOLIDWORKS Add-Ins Solution

SOLIDWORKS provides connected, easy-to-use tools that help you innovate and accelerate every aspect of your product development process. To develop design potential in management, analysis, production and marketing.



SOLIDWORKS

Simulation

Subject your designs to real world conditions to raise product quality while reducing prototyping and physical testing costs.

SOLIDWORKS Simulation **Standard**
SOLIDWORKS Simulation **Professional**
SOLIDWORKS Simulation **Premium**



SOLIDWORKS

Flow Simulation

Simulate the fluid flow, heat transfer, and fluid forces that are critical to the success of your designs.



SOLIDWORKS

Plastics

Predict and avoid manufacturing defects in plastic part and injection mold designs, eliminating costly rework, improving part quality, and decreasing time to market.



SOLIDWORKS

Electrical

SOLIDWORKS Electrical solutions simplify electrical schematic design with specific tools for engineers and intuitive interfaces for faster embedded electrical system design and control panels.



SOLIDWORKS

PDM

Easily store, access, and share data in one location, improving the way your teams manage and collaborate on data.



SOLIDWORKS

CAM

SOLIDWORKS® CAM - powered by CAMWorks - uses rules-based technology that enables you to integrate design and manufacturing in one application, connecting design and manufacturing teams through a common software tool and 3D model.



SOLIDWORKS

Inspection

Reduce the time needed to create inspection documentation, helping to eliminate input errors, improve quality, and reduce time to market.



SOLIDWORKS

MBD

Define, organize, and publish 3D annotations, including 3D model data in industry-standard file formats.



SOLIDWORKS

Visualize

Quickly and easily create professional, photo-quality images, animations, and other interactive 3D content to get your products to market faster.



SOLIDWORKS

Composer

Easily repurpose existing 3D models to rapidly create and update high-quality graphical assets that are fully associated with your 3D design.



DraftSight

Professional grade 2D CAD software that can be used to create, edit, view, and markup any kind of 2D drawing or DWG file.



DriveWorks

Configure & Automate

Enable engineers, sales teams, distributors and customers to design, engineer and configure to order, on any device.

To ensure you are always working with a 3DEXPERIENCE SOLIDWORKS supported and optimized system for hardware, operating system and Microsoft products.

SOLIDWORKS Operating Systems	SOLIDWORKS 2022	SOLIDWORKS 2023	SOLIDWORKS 2024	
Client Products (e.g. SOLIDWORKS)				
Windows 11 , 64-bit	✓ (SW2022 SP2)	✓	✓	
Windows 10 , 64-bit	✓	✓	✓	
Server Products (e.g. SOLIDWORKS PDM, SNL Manager)				
Windows Server 2022	✓ (SW2022 SP4)	✓	✓	
Windows Server 2019	✓	✓	✓ (End of Life: SW 2025)	
Windows Server 2016	✓	✓	✗	
eDrawings for Mac				
macOS Sonoma (14.0)	✗	✗	To be announced	
macOS Ventura (13.0)	✗	✓	✓ (End of Life: SW 2025)	
macOS Monterey (12.0)	✓	✓	✓ (End of Life: SW 2024)	
macOS Big Sur (11.0)	✓	✓	✗	
macOS Catalina (10.15)	✓	✗	✗	
Microsoft SQL and Office				
MS SQL				
SQL 2022	✗	SQL 2019 ✓ CU4 required	✓	
SQL 2019	SQL 2019 ✓ CU4 required	SQL 2019 ✓ CU4 required	SQL 2019 ✓ CU4 required (End of Life: SW 2025)	
SQL 2017	✓	✓	✓ (End of Life: SW 2024)	
SQL 2016	✓	✓	✗	
MS Office				
Microsoft Excel and Word	2016, 2019, 2021 (SW2022 SP2)	2016, 2019, 2021	2021	
Hardware and Hypervisors				
Hardware				
Processor	64-bit; Intel or AMD			
RAM	16 GB or more PDM Contributor/Viewer or Electrical Schematic: 8 GB or more			
Graphics	https://www.solidworks.com/support/hardware-certification/			
Drives	SSD drives recommended for optimal performance			
3DEXPERIENCE Environment Configuration				
Certified Workstations AVX extensions are required on CPU 3DEXPERIENCE Support Policy on Windows 11 3DEXPERIENCE Support Policy on Windows 10				
Hardware and Software Configurations				
Browser Version	Mozilla Firefox	Google Chrome	Microsoft Edge Chromium	Apple Safari
Proxy Details	If Proxy is used, ensure that "dslauncher.3ds.com" is set as an exception (at least one browser should be compatible)			
Browser Setup	Ensure that below settings are done in browser: "Enable Enhanced Protected Mode" must be disabled "Use TLS 1.2" must be enabled			
Network Performances	Bandwidth and Latency Considerations: Bandwidth should be > 4 Mb/s Latency should be < 350 ms			
3DEXPERIENCE Launcher	At least one of the following three ports used by default by the 3DEXPERIENCE Launcher must be available/accessible: 20250, 33150, 44550			
Access to Download Links	It is recommended to ensure that the access for download links is not restricted by firewall			

Computer Requirements

Please check that hardware configuration belongs to the official Windows Certified Workstations List. Computer with: 500 MB or more of hard disk space, A 1.0 GHz processor (2.8 GHz or faster recommended) 512 MB of system memory (1 GB recommended), 64 MB video card (256 MB recommended) supports OpenGL 1.1 (OpenGL 1.5 recommended) with OpenGL 3D hardware acceleration enabled, 3-button mouse recommended

SUBSCRIPTION SERVICES

Metro Systems Corporation PLC. has a expert team for consulting, solving problems and providing quick and direct information services, with a dedicated certification from Dassault Systèmes (Certified 3DEXPERIENCE SOLIDWORKS Support), to encourage you to increase your ability to use the program with maximum efficiency.

- ✓ Install and upgrade the program to the latest version.
- ✓ Provide free training packages taught by 3DEXPERIENCE SOLIDWORKS certified experts.
- ✓ Provide program updates such as Hotfixes or Service Packs.
- ✓ A Web-based Customer Portal for 3DEXPERIENCE SOLIDWORKS is available to access exclusive content on My.SOLIDWORKS.com.
- ✓ On-Site Support & Consultant including Hotline Support service whenever you need.

SOLIDWORKS Authorized Training and Support Provider

3DEXPERIENCE SOLIDWORKS Training Courses

3DX 3DEXPERIENCE SOLIDWORKS
Duration : 2 Days

SOLIDWORKS Standard Training Courses

SWFC SOLIDWORKS Fundametal
(Essentials+Drawings)
Duration : 4 Days

SOLIDWORKS Professional Training Courses

SWFC SOLIDWORKS Fundamental
Duration : 4 Days

SWAP/A SOLIDWORKS Advanced
(Assembly + Part)
Duration : 4 Days

SOLIDWORKS Premium Training Courses

SWFC SOLIDWORKS Fundamental
Duration : 4 Days

SWAP/A SOLIDWORKS Advanced
Duration : 4 Days

SSIM SOLIDWORKS Simulation
(Simulation + Motion)
Duration : 4 Days

SOLIDWORKS PDM Training Courses

PDMW SOLIDWORKS PDM Standard
Duration : 2 Days

PDMW SOLIDWORKS PDM Professional
Duration : 2 Days

SOLIDWORKS Simulation Training Courses

SPRO SOLIDWORKS Simulation Professional
Duration : 2 Days

SPRE SOLIDWORKS Simulation Premium
Duration : 3 Days

SWFL SOLIDWORKS Flow Simulation
Duration : 2 Days

SOLIDWORKS Special Training Courses

SWAS SOLIDWORKS Advanced Surface
Duration : 2 Days

SWSM SOLIDWORKS Weldment and Sheet Metal
Duration : 2 Days

SWPP SOLIDWORKS Piping
Duration : 2 Days

SWAN SOLIDWORKS Animation
Duration : 2 Days

SWEL SOLIDWORKS Electrical
Duration : 3 Days

