

PRODUCT COMPARISON

DriveWorksXpress, Solo, and Pro compared.

DriveWorks automates SOLIDWORKS parts, assemblies, drawings, and documents at three levels. Start with DriveWorksXpress, included free inside SOLIDWORKS, and upgrade to DriveWorks Solo or DriveWorks Pro as your requirements change. GoEngineer helps you choose the right fit and implement it.

Entry level · Free

DriveWorksXpress

Design automation included free inside SOLIDWORKS®.

8 of 115 features

- Entry-level SOLIDWORKS part and assembly automation
- Create a drawing for each part and assembly
- Open from the Tools menu in SOLIDWORKS

SOLIDWORKS add-in

DriveWorks Solo

Part, assembly, and drawing automation add-in for SOLIDWORKS®.

50 of 115 features

- Automate parts, assemblies, and drawings; control where files are stored
- Generate production-ready drawings, BOMs, and quote documents
- Enter specifications and preview designs inside SOLIDWORKS

Design automation + CPQ

DriveWorks Pro

Everything in Solo, plus 65+ additional features.

115 of 115 features

- Configure order-specific designs in a browser on any device
- Interactive 3D previews of configured products
- Integrate with SOLIDWORKS PDM, CRM, ERP, CAM, and more
- Scalable, flexible licensing options

Feature comparison

✔ Included – Not included

CAPABILITY	DRIVEWORKS XPRESS	DRIVEWORKS SOLO	DRIVEWORKS PRO
Supported operating systems and browsers			
4 features			
Windows 10, Windows 11 (DriveWorks desktop applications)	✔	✔	✔
All of the above plus Windows Server 2019, 2022, 2025 (DriveWorks Pro Server and DriveWorks Live web application)	–	–	✔
Google Chrome 8+, Mozilla Firefox 4+, Microsoft Edge, Safari 5.1+ (configuring products in a browser through DriveWorks Live)	–	–	✔
Cloud hosting: Microsoft Azure, AWS	–	–	✔
CAD: creating SOLIDWORKS 3D models and 2D drawings			
21 features			
Drive dimensions, features, and custom properties	✔	✔	✔
Drive color, material, and textures	–	✔	✔
Drive advanced feature properties (Hole Wizard, Sheet Metal, Weldments)	–	✔	✔
Drive instances	–	✔	✔
Replace components (with existing files or dynamically driven files)	–	✔	✔
Create additional model file formats (STEP, STL, PDF, DXF, JPEG, etc.)	–	✔	✔
Full control over new model file names and locations	–	✔	✔
Control multiple model sets from a single project	–	✔	✔
Run SOLIDWORKS model macros	–	–	✔

CAPABILITY	DRIVEWORKS XPRESS	DRIVEWORKS SOLO	DRIVEWORKS PRO
Generative design: create new features on the fly (configurations, insert components, mates, etc.)	-	-	✓
Create a drawing for each part and assembly	✓	✓	✓
Create multiple drawings for each part and assembly	-	✓	✓
Full control over new drawing file names and locations	-	✓	✓
Create additional drawing file formats (PDF, DXF, DWG, JPEG, etc.)	-	✓	✓
Control drawing sheets (re-scale, rename, delete)	-	✓	✓
Control drawing views (re-scale, re-position, delete)	-	✓	✓
Control annotations (dimension text, notes, symbols, etc.)	-	✓	✓
Control dimension positions	-	✓	✓
Control custom properties, break lines, and layers	-	✓	✓
Run SOLIDWORKS drawing macros	-	-	✓
Run additional tasks on the fly (auto balloon, arrange dimensions, rescale and position views, etc.)	-	-	✓
Document creation			6 features
Create documents (sales quotes, purchase orders, bills of materials, etc.)	-	✓	✓
Built-in document templates	-	✓	✓
Fully customizable document creation (from Word, Excel, XML, etc.)	-	-	✓
Send HTML emails with attachments	-	-	✓
Create PDF from markdown, manipulate existing PDF files	-	-	✓
Create additional file formats (PDF, HTML, TXT, XML, etc.)	-	-	✓

CAPABILITY	DRIVEWORKS XPRESS	DRIVEWORKS SOLO	DRIVEWORKS PRO
Output generation			7 features
Immediate generation of SOLIDWORKS models and drawings	☑	☑	☑
Real-time preview (On Demand): updates model while specifying	–	☑	☑
Manual release of generation queue: generate models for multiple specifications from a queue	–	–	☑
Automatic generation: unattended generation of outputs	–	–	☑
Load balancing: distributes output generation over multiple machines	–	–	☑
Priority processing: change the order outputs are created based on rules	–	–	☑
Output tagging: generate outputs on targeted machines or in specific locations	–	–	☑
User interface design			16 features
Basic form designer (Solo and Pro: covered by the Expert form designer)	☑	☑	☑
Expert form designer (resolution and control guides, control grouping, control property grid, etc.)	–	☑	☑
Multiple form creation with dynamic navigation	–	☑	☑
Basic form controls (text box, numeric text box, drop-down, spin button, check box)	☑	☑	☑
Enhanced form controls (check box group, hyperlink, label, list box, option group, picture box, slider, toggle switch)	–	☑	☑
Advanced form controls (3D preview, child specification list, clipboard button, data table, date picker, frame control, macro button, option button, TinyMCE control, upload control, etc.)	–	–	☑
Dynamic options for list controls	–	☑	☑
Dynamic control of enable and visible properties of form controls	–	☑	☑
Dynamic control over fonts and colors	–	☑	☑

CAPABILITY	DRIVEWORKS XPRESS	DRIVEWORKS SOLO	DRIVEWORKS PRO
Static validation and validation messages	✓	✓	✓
Dynamic validation and validation messages	-	✓	✓
Copy and paste form controls	-	✓	✓
Re-skin controls	-	✓	✓
Support for responsive forms (re-position controls on screens of different sizes)	-	✓	✓
Web styling with CSS	-	-	✓
Project hierarchy: run a specification inside a specification to any level (e.g. a contract with multiple configurable line items)	-	-	✓
Working with data and rules			16 features
Use tabular data to calculate rules	-	✓	✓
Copy and paste Excel data	-	✓	✓
Create internal data tables	-	✓	✓
Use dynamic data from ODBC data sources in rules (SAP, Oracle, MySQL, SQL Server, etc.)	-	-	✓
Export data to ODBC data sources (SAP, Oracle, MySQL, SQL Server, etc.)	-	-	✓
Pull and push data dynamically to and from SQL Server databases using SQL or Windows authentication	-	-	✓
Create group-level tabular data for use across an entire implementation	-	-	✓
Create calculation tables where each cell can be calculated from other cells	-	-	✓
Create rollup data tables: roll up price or BOM quantities through the project hierarchy	-	-	✓
Web service integration: communicate with any web service or use DriveWorks as a web service	-	-	✓
Over 250 engineering, mathematic, and scientific functions	-	✓	✓

CAPABILITY	DRIVEWORKS XPRESS	DRIVEWORKS SOLO	DRIVEWORKS PRO
Create custom formulas as reusable lambda functions	–	☑	☑
Over 50 vector (3D), database, and PDM functions	–	–	☑
Rules builder with function wizard and rule insight (breakdown and drill down, function assistance, syntax highlighting, helper text)	–	☑	☑
Reusable rules (variables)	–	☑	☑
Pervasive search and filtering capabilities	–	☑	☑
Maintainability, reporting, and diagnostics			9 features
Rules commentary	–	☑	☑
Rules revisioning	–	☑	☑
Reporting on model generation success or failure	☑	☑	☑
Reporting on specification process success or failure	–	–	☑
Real-time testing during form design	–	☑	☑
Rules analysis and breakdown	–	☑	☑
What-if scenarios (specification test mode)	–	–	☑
Interactive step-through of model generation	–	–	☑
Rule profiling (rule-specific error debugging, performance solving, and insight features)	–	–	☑
Scalability			15 features
Import DriveWorksXpress projects	–	☑	☑
Import DriveWorks Solo projects	–	–	☑

CAPABILITY	DRIVEWORKS XPRESS	DRIVEWORKS SOLO	DRIVEWORKS PRO
Underlying database: Microsoft SQL Server	-	☑	☑
Microsoft SQL Server fully supported	-	-	☑
Security: users and teams	-	-	☑
Security: Single Sign-On (SSO) Active Directory compatibility	-	-	☑
Granular permissions	-	-	☑
Zero-conversion web access	-	-	☑
Unattended model generation	-	-	☑
Standalone user seats	-	-	☑
Fully customizable workflow (who, what, and when)	-	-	☑
Built-in apps: Dashboard (projects, KPIs), CPQ (configure, price, quote), Scheduler (tasks on a schedule)	-	-	☑
Automatic processing of external data	-	-	☑
Fully documented API with Software Development Kit	-	-	☑
Plugins	-	-	☑
Integration			6 features
SOLIDWORKS PDM Professional (automatic check-in of models, drawings, and documents)	-	-	☑
Salesforce	-	-	☑
Third-party system integration through file import and export	-	-	☑
Third-party system integration through SQL / ODBC connections	-	-	☑
Third-party system integration through web services	-	-	☑

CAPABILITY	DRIVEWORKS XPRESS	DRIVEWORKS SOLO	DRIVEWORKS PRO
Third-party system integration through a fully documented API	–	–	✓
Online configurator and DriveWorks 3D			15 features
Direct web access through the application	–	–	✓
Run as a service through Internet Information Services (IIS)	–	–	✓
Web theme with basic re-skinning	–	–	✓
Choice of fully responsive skins	–	–	✓
Integration Theme with Web API for full integration with existing websites	–	–	✓
Session management: control license usage over the internet	–	–	✓
Image gallery: display image files as they are created	–	–	✓
Configurable 3D in a browser	–	–	✓
Virtual reality support	–	–	✓
Real-time 3D text support	–	–	✓
Visually realistic appearances with physically based rendering (PBR)	–	–	✓
Server-side rendering of web-optimized DriveWorks 3D files	–	–	✓
Image fallback mode when WebGL is unavailable on the client	–	–	✓
Model click interaction	–	–	✓
Transparent image support	–	–	✓

NOTES

- DriveWorks Pro consists of multiple software modules; some features require specific modules.
- Preview generation (On Demand) is available for DriveWorks Solo and Pro modules that run as an add-in to SOLIDWORKS; it is not available in DriveWorks Live.
- DriveWorks User and DriveWorks Live provide access for users to enter data. DriveWorks Live provides seamless conversion of DriveWorks projects for web access.
- DriveWorks Autopilot is required for some features; multiple Autopilot licenses are required for others. DriveWorks User is required for some features.

NEXT STEP

Not sure which edition fits?

A GoEngineer DriveWorks specialist will review your products, rules, and outputs, then recommend the edition and modules you need.

SOFTWARE SALES

info@goengineer.com

888.688.3234

Contact Us

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