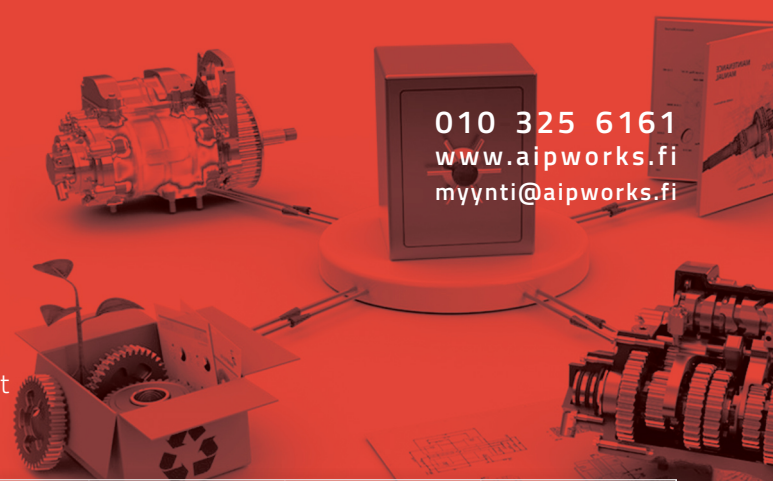


| Ease of Use | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
|--|--------------------|-------------------------|---------------------|
| <ul style="list-style-type: none"> • Learn Fast: In-Context and Toolbar Menus, Command Search, Built-In Tutorials, Searchable Help Documentation • Work Fast: Hot Keys, Customizable Commands, APIs • Get Help Fast: AIPWorks Support Services • Sketch and UI Support for Touch Compatible Devices | ✓ | ✓ | ✓ |
| 2D Drawings | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> • Automatic Drawing View Creation and Updates • Drafting Standards: ANSI, ISO, DIN, JIS, BSI, GOST, GB • Manual and Automated Dimensioning and Tolerancing • Automatic Bill of Materials (BOM), Exploded Views, Balloon Notes • Hole Tables, Weld Tables, Pipe Bend Tables, Cut Lists • Sheet Metal Bend Notes | ✓ | ✓ | ✓ |
| Part and Assembly Modeling | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> • 3D Solid Modeling • Direct Model Geometry Modification • Assembly Structure Planning: SOLIDWORKS Treehouse • Large Assembly Design • Advanced Surface Design • Sheet Metal Design • Weldments • Plastic Part Design • Mold Design • Mesh Modeling | ✓ | ✓ | ✓ |
| Design Reuse and Automation | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> • Find Your Data (SOLIDWORKS Search) • Design Automation (DriveWorksXpress) • Part and Assembly Configurations • Reuse 2D and 3D CAD Data • 3D CAD Models from Suppliers (3DContentCentral.com) | ✓ | ✓ | ✓ |
| Animation and Visualization | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> • Move Assembly by Dragging Components • Move Assembly with Motors • CAD Videos • Basic CAD Rendering (RealView) • 3D Walk Through/Fly Through | ✓ | ✓ | ✓ |
| Interference Check | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> • Collision and Interference Detection • Hole Alignment and Thread Checks | ✓ | ✓ | ✓ |
| Collaborate and Share CAD Data ^{1/2} | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> • 3D Interconnect for Associative Import of 3D Models • Import/Export Over 30 CAD Formats • Print directly to 3D printers: AMF and 3MF formats • Read Printed Circuit Board Data as 3D Parts (IFC) | ✓ | ✓ | ✓ |

| Collaborate and Share CAD Data ^{2/2} | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
|---|--------------------|-------------------------|---------------------|
| <ul style="list-style-type: none"> • 3D Models for CAD/CAM Integration with CAM Partners 3D • Dimensioning and Tolerancing (Model Based Definition) 2D • DXF®/DWG® Data • 2D to 3D CAD Conversion Tools • Convert 3D Solid Parts to Sheet Metal • View eDrawings® Files • Advanced CAD File Import: Feature Recognition and Conversion | ✓ | ✓ | ✓ |
| SOLIDWORKS CAM Standard | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> • Integrated SOLIDWORKS CAM Standard powered by CAMWorks | ✓ | ✓ | ✓ |
| Basic Analysis Tools | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> • Part Structural Analysis • Basic Flow Analysis • Part Environmental Impact Analysis | ✓ | ✓ | ✓ |
| Productivity Tools | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> • Power Selection Tools • Symmetry Check • Copy Feature Info into Other Features (Feature Paint) • Find and Replace in Drawing | ✓ | ✓ | ✓ |
| Design for Manufacturing | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> • Rules-based Manufacturability Checks (DFMXpress) • Draft and Undercut Analysis • Sheet Metal Checks and Flat Pattern • Thickness Analysis • Compare Parts and Drawings for Changes • Geometry Check for CAM | ✓ | ✓ | ✓ |
| CAD Libraries | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> • Over One Million Standard Fasteners and Components (Toolbox) • Beam, Bearing, and Cam Design Wizard • Automatic Assembly of Fasteners and Components | ✓ | ✓ | ✗ |
| Automatic Task Scheduling and Batch Processing | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> • Automatic Task Scheduling and Batch Processing | ✓ | ✓ | ✗ |
| Design for Cost & Cost Estimation | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> • Compare Manufacturing Costs • Automated Manufacturing Cost Estimation • Customizable Manufacturing Settings • Output Cost Report | ✓ | ✓ | ✗ |



| ECAD/MCAD Collaboration (CircuitWorks™) | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
|--|--------------------|-------------------------|---------------------|
| <ul style="list-style-type: none"> Import/Export of Printed Circuit Board (PCB) Designs Two-Way Data Exchange: ECAD to MCAD – MCAD to ECAD PCB Outlines, Keep-Out Areas, Maximum Heights | ✓ | ✓ | ✗ |
| Advanced Photorealistic Rendering | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> PhotoView 360 SOLIDWORKS Visualize Standard Photo Quality Images and Animations | ✓ | ✓ | ✗ |
| CAD Standards Checking | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> Verify Designs against Company Standards Automatically Correct Non-Conforming Issues Customize Design Check Rules | ✓ | ✓ | ✗ |
| SOLIDWORKS File Management | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> SOLIDWORKS PDM Standard User and Group Access Rights File Vaulting Secure Check-in and Check-out Automated Revision Control | ✓ | ✓ | ✗ |
| Reverse Engineering (Scanto3D) | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> Import, Edit, Evaluate, and Create Solid Geometry from Point Cloud and Mesh Data Import Adobe® Illustrator® Files Import Image Files and Convert Raster to Vector Data | ✓ | ✓ | ✗ |
| Automated Tolerance Stack-Up Analysis (TolAnalyst) | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> Worst Case and RSS Maximum/Minimum Identify Highest Contributing Tolerances Automatic Update of Analysis when Design Changes | ✓ | ✓ | ✗ |
| eDrawings® Professional | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> Create and Publish eDrawings Files Allow Measurement in eDrawings Files Enable Markup of eDrawings Files Exploded Views Support for eDrawings Files View Assembly Animations Password Protect Intellectual Property | ✓ | ✓ | ✗ |
| Motion Analysis | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> Kinematic and Dynamic Analysis Inputs: Forces, Springs, Dampers, Gravity, Contact, Bushings Outputs: Displacement, Velocities, Accelerations, Body Loads, Joint Forces View/Publish Animations, Graphs, Reports | ✓ | ✗ | ✗ |

| Structural Part and Assembly Analysis | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
|---|--------------------|-------------------------|---------------------|
| <ul style="list-style-type: none"> • Structural FEM analysis • Inputs: Variable Forces/Pressures, Full Restraint Sets, Connectors, Gravity, Contact, Materials • Outputs: Factor of Safety, Stress, Displacement, Strain View/Publish Animations, Graphs, Reports | ✓ | ✗ | ✗ |
| SOLIDWORKS Sustainability | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> • Life-Cycle Assessment (LCA) for Environmental Impact | ✓ | ✗ | ✗ |
| Routing of Pipes and Tubes | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> • Create Detailed Piping Systems • Create Flexible or Rigid Tubing Lines • Customizable Library of Piping Components • Cut Length Calculations Automated for BOM • Output of PCF files for ISOGEN® piping software • Output Tube Bend Data for Manufacturing • Minimum Bend Radius Check for Tubes • Automatic Routing Option for Pipes and Tubes | ✓ | ✗ | ✗ |
| Routing of Electrical Cabling and Wiring Harnesses | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> • Create Detailed Electrical Cable and Wiring Harnesses • Run Rigid or Flexible Electrical Conduit Segments • Wire Lengths Automatically Calculated • BOM and Wire Cut Lists • Conduit • Ribbon Cable • Mounting Hardware, Splices, Connectors, Insulation, Looms, Heat-Shrink Tubing, Cable Ties | ✓ | ✗ | ✗ |
| Routing of Rectangular and Other Sections | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> • Routing of Rectangular and Other Sections | ✓ | ✗ | ✗ |
| Advanced Surface Flattening | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> • Advanced Surface Flattening | ✓ | ✗ | ✗ |
| Assembly Level Cost Roll Up | SOLIDWORKS Premium | SOLIDWORKS Professional | SOLIDWORKS Standard |
| <ul style="list-style-type: none"> • Assembly Level Cost Roll Up | ✓ | ✗ | ✗ |