

## SOLIDWORKS 3D DESIGN PRODUCT FEATURES

| SOLIDWORKS CAD<br>PRODUCT FEATURES                                                | SOLIDWORKS<br>PREMIUM | SOLIDWORKS<br>PROFESSIONAL | SOLIDWORKS<br>STANDARD |
|-----------------------------------------------------------------------------------|-----------------------|----------------------------|------------------------|
| ▼ PART AND ASSEMBLY MODELING                                                      |                       |                            |                        |
| 3D Solid Modeling                                                                 | ■                     | ■                          | ■                      |
| Conceptual Design                                                                 | ■                     | ■                          | ■                      |
| Direct Model Geometry Modification                                                | ■                     | ■                          | ■                      |
| Large Assembly Design                                                             | ■                     | ■                          | ■                      |
| Advanced Surface Design                                                           | ■                     | ■                          | ■                      |
| Sheet Metal Design                                                                | ■                     | ■                          | ■                      |
| Weldments                                                                         | ■                     | ■                          | ■                      |
| Mold Design                                                                       | ■                     | ■                          | ■                      |
| ▼ 2D DRAWINGS                                                                     |                       |                            |                        |
| Automatic Drawing View Creation & 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                             | ■                     | ■                          | ■                      |
| ▼ DESIGN REUSE AND AUTOMATION                                                     |                       |                            |                        |
| Find Your Data (SOLIDWORKS Search), Reuse 2D & 3D CAD Data                        | ■                     | ■                          | ■                      |
| Design Automation (DriveWorksXpress)                                              | ■                     | ■                          | ■                      |
| Part and Assembly Configurations                                                  | ■                     | ■                          | ■                      |
| 3D CAD Models from Suppliers (3DContentCentral.com)                               | ■                     | ■                          | ■                      |
| ▼ ANIMATION AND VISUALIZATION                                                     |                       |                            |                        |
| Move Assembly with Motors                                                         | ■                     | ■                          | ■                      |
| Collision & Interference Detection, Hole alignment & Thread checks                | ■                     | ■                          | ■                      |
| 3D Walk Through/Fly Through and Videos                                            | ■                     | ■                          | ■                      |
| ▼ COLLABORATE AND SHARE CAD DATA                                                  |                       |                            |                        |
| Import/Export Over 30 CAD Formats                                                 | ■                     | ■                          | ■                      |
| 2D DXF®/DWG® Data, 2D to 3D CAD Conversion Tools                                  | ■                     | ■                          | ■                      |
| ▼ BASIC ANALYSIS TOOLS                                                            |                       |                            |                        |
| Part Structural Analysis, Part Environmental Impact Analysis, Basic Flow Analysis | ■                     | ■                          | ■                      |
| ▼ DESIGN FOR MANUFACTURING                                                        |                       |                            |                        |
| Rules-Based Manufacturability Checks (DFMXpress)                                  | ■                     | ■                          | ■                      |
| ▼ ADVANCE CAD FILE IMPORT                                                         |                       |                            |                        |
| Automatic & Interactive Feature Recognition And Conversion                        | ■                     | ■                          | ■                      |
| 3D Interconnect (Import major CAD formats into SOLIDWORKS)                        | ■                     | ■                          | ■                      |
| ▼ PRODUCTIVITY TOOLS                                                              |                       |                            |                        |
| Automatic Task Scheduling & Batch Processing                                      | ■                     | ■                          | ■                      |
| CAD Standards Checking (Design Checker)                                           | ■                     | ■                          | ■                      |
| ▼ CAD LIBRARIES                                                                   |                       |                            |                        |
| Over One Million Standard Fasteners And Components (Toolbox)                      | ■                     | ■                          | ■                      |
| Automatic Assembly Of Fasteners And Components                                    | ■                     | ■                          | ■                      |
| Beam, Bearing & CAM Design Wizard                                                 | ■                     | ■                          | ■                      |
| ▼ AUTOMATED TOLERANCE STACK-UP ANALYSIS (TOLANALYST)                              |                       |                            |                        |
| Worst Case and RSS Maximum/Minimum                                                | ■                     | ■                          | ■                      |
| Identify Highest Contributing Tolerances                                          | ■                     | ■                          | ■                      |
| ▼ DESIGN FOR COST/QUOTING (SOLIDWORKS COSTING)                                    |                       |                            |                        |
| Automated Manufacturing Cost Estimation                                           | ■                     | ■                          | ■                      |
| Output Cost Report                                                                | ■                     | ■                          | ■                      |
| ▼ ADVANCED PHOTOREALISTIC RENDERING (PHOTOVIEW 360)                               |                       |                            |                        |
| Photo Quality Images and Animations                                               | ■                     | ■                          | ■                      |
| Control Camera View, Lighting, Materials, Textures                                | ■                     | ■                          | ■                      |

| SOLIDWORKS CAD<br>PRODUCT FEATURES                                                              | SOLIDWORKS<br>PREMIUM                                                      | SOLIDWORKS<br>PROFESSIONAL | SOLIDWORKS<br>STANDARD |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------|------------------------|
| ▼ eDRAWINGS® PROFESSIONAL                                                                       |                                                                            |                            |                        |
| Create and Publish eDrawings Files                                                              | ■                                                                          | ■                          |                        |
| Enable Markup of eDrawings Files, Allow Measurement, Password Protection in eDrawing files      | ■                                                                          | ■                          |                        |
| View Assembly Animations and Exploded Views Support                                             | ■                                                                          | ■                          |                        |
| ▼ ECAD/MCAD COLLABORATION CIRCUITWORKS™                                                         |                                                                            |                            |                        |
| Import/Export of Printed Circuit Board (PCB) Designs                                            | ■                                                                          | ■                          |                        |
| Two-Way Data Exchange: ECAD to MCAD - MCAD to ECAD                                              | ■                                                                          | ■                          |                        |
| IDF, ProStep (IDX) or PADS (*.ASC)                                                              | ■                                                                          | ■                          |                        |
| PCB Outlines, Keep-Out Areas, Maximum Heights                                                   | ■                                                                          | ■                          |                        |
| ▼ SCAN TO 3D REVERSE ENGINEERING                                                                |                                                                            |                            |                        |
| Converting Scan data to a Solid Model                                                           | ■                                                                          | ■                          |                        |
| Mesh Preparation Wizard, Curve Wizard, Surface Wizard                                           | ■                                                                          | ■                          |                        |
| ▼ ADVANCED DESIGN FOR MANUFACTURING                                                             |                                                                            |                            |                        |
| Geometry Analysis, Thickness Analysis, Draft & Undercut Analysis                                | ■                                                                          | ■                          |                        |
| Advanced Surface Flattening                                                                     | ■                                                                          |                            |                        |
| ▼ TIME BASED MOTION ANALYSIS                                                                    |                                                                            |                            |                        |
| Kinematic and Dynamic Analysis                                                                  | ■                                                                          |                            |                        |
| Inputs: Forces, Springs, Dampers, Gravity, Contact, Bushings                                    | ■                                                                          |                            |                        |
| Outputs: Displacement, Velocities, Accelerations, Body Loads, Joint Forces, graphs, reports     | ■                                                                          |                            |                        |
| ▼ STRUCTURAL PART AND ASSEMBLY ANALYSIS                                                         |                                                                            |                            |                        |
| Inputs: Variable Forces/Pressures, Full Restraint Sets, Connectors, Gravity, Contact, Materials | ■                                                                          |                            |                        |
| Outputs: Factor of Safety, Stress, Displacement, Strain                                         | ■                                                                          |                            |                        |
| View/Publish Animations, Graphs, Reports                                                        | ■                                                                          |                            |                        |
| ▼ ROUTING OF PIPES AND TUBES                                                                    |                                                                            |                            |                        |
| Create Detailed Piping Systems                                                                  | ■                                                                          |                            |                        |
| Create Flexible or Rigid Tubing Lines                                                           | ■                                                                          |                            |                        |
| Customizable Library of Routing Components                                                      | ■                                                                          |                            |                        |
| Automatic Piping & Tubing Drawings, Cut Length Calculations & Automated BOM                     | ■                                                                          |                            |                        |
| Automatic Routing Option for Pipes and Tubes                                                    | ■                                                                          |                            |                        |
| Minimum Bend Radius Check for Tubes                                                             | ■                                                                          |                            |                        |
| Output of PCF Files for ISOGEN® Piping Software                                                 | ■                                                                          |                            |                        |
| Rectangular & Other Section Routing                                                             | ■                                                                          |                            |                        |
| ▼ ROUTING OF ELECTRICAL CABLING AND WIRING HARNESSSES                                           |                                                                            |                            |                        |
| Create Detailed Electrical Cable and Wiring Harnesses                                           | ■                                                                          |                            |                        |
| Conduit & Ribbon Cable Routing                                                                  | ■                                                                          |                            |                        |
| Automated Harness Flattening for Manufacturing                                                  | ■                                                                          |                            |                        |
| Automatic BOM and Wire Cut Lists                                                                | ■                                                                          |                            |                        |
| Automatic Routing Using Imported "From-To" Connection Data                                      | ■                                                                          |                            |                        |
| SOLIDWORKS CAM<br>PRODUCT FEATURES                                                              | CAM STANDARD<br>(AVAILABLE IN SOLIDWORKS<br>STANDARD,PROFESSIONAL,PREMIUM) | CAM PROFESSIONAL           |                        |
| 2.5 Axis Milling & 3 Axis Milling (Limited)                                                     | ■                                                                          | ■                          |                        |
| Toolpath Simulation                                                                             | ■                                                                          | ■                          |                        |
| Rules-Based Machining                                                                           | ■                                                                          | ■                          |                        |
| Tolerance-Based Machining (TBM) & Knowledge-Based Machining (KBM)                               | ■                                                                          | ■                          |                        |
| Associativity with SOLIDWORKS 3D CAD                                                            | ■                                                                          | ■                          |                        |
| Automatic Feature Recognition (AFR)                                                             | ■                                                                          | ■                          |                        |
| High-Speed Machining (Volumill 2.5 Axis Roughing)                                               |                                                                            | ■                          |                        |
| Turning Capabilities                                                                            |                                                                            | ■                          |                        |
| Indexing                                                                                        |                                                                            | ■                          |                        |
| Assembly Machining                                                                              |                                                                            | ■                          |                        |

| SOLIDWORKS SIMULATION<br>PRODUCT FEATURES             | SOLIDWORKS<br>SIMULATION<br>PREMIUM | SOLIDWORKS<br>SIMULATION<br>PROFESSIONAL            | SOLIDWORKS<br>SIMULATION<br>STANDARD  |
|-------------------------------------------------------|-------------------------------------|-----------------------------------------------------|---------------------------------------|
| Finite Element Analysis                               | ■                                   | ■                                                   | ■                                     |
| Contacts and Connectors                               | ■                                   | ■                                                   | ■                                     |
| Post Processing                                       | ■                                   | ■                                                   | ■                                     |
| Linear Static Simulation for Assembly                 | ■                                   | ■                                                   | ■                                     |
| Time Based Mechanism Motion Simulation                | ■                                   | ■                                                   | ■                                     |
| Stress Hot Spot Diagnostics & Design Comparison Study | ■                                   | ■                                                   | ■                                     |
| Trend Tracker                                         | ■                                   | ■                                                   | ■                                     |
| Fatigue Simulation                                    | ■                                   | ■                                                   | ■                                     |
| Simulation Evaluator                                  | ■                                   | ■                                                   | ■                                     |
| Contact Stabilization                                 | ■                                   | ■                                                   | ■                                     |
| Design Optimization (Based on Simulation Data)        | ■                                   | ■                                                   |                                       |
| Advanced Contacts & Connectors                        | ■                                   | ■                                                   |                                       |
| Event-Based Motion Simulation                         | ■                                   | ■                                                   |                                       |
| Frequency Simulation                                  | ■                                   | ■                                                   |                                       |
| Buckling or Collapse Simulation                       | ■                                   | ■                                                   |                                       |
| Structural Thermal Simulation                         | ■                                   | ■                                                   |                                       |
| Drop Test Simulation                                  | ■                                   | ■                                                   |                                       |
| Pressure Vessel Design Simulation                     | ■                                   | ■                                                   |                                       |
| Submodelling Simulation                               | ■                                   | ■                                                   |                                       |
| 2D Simplification                                     | ■                                   | ■                                                   |                                       |
| Load Case Manager                                     | ■                                   | ■                                                   |                                       |
| Topology Study                                        | ■                                   | ■                                                   |                                       |
| Dynamic Simulation                                    | ■                                   |                                                     |                                       |
| Composites Components Simulation                      | ■                                   |                                                     |                                       |
| Non Linear Simulation                                 | ■                                   |                                                     |                                       |
| SOLIDWORKS FLOW SIMULATION<br>PRODUCT FEATURES        | SOLIDWORKS<br>FLOW<br>SIMULATION    | SOLIDWORKS<br>FLOW SIMULATION<br>ELECTRONIC COOLING | SOLIDWORKS<br>FLOW SIMULATION<br>HVAC |
| Post Processing                                       | ■                                   | ■                                                   | ■                                     |
| Design Comparison Studies                             | ■                                   | ■                                                   | ■                                     |
| Fluid Flow Simulation                                 | ■                                   | ■                                                   | ■                                     |
| Rotating Regions                                      | ■                                   | ■                                                   | ■                                     |
| Thermal Fluid Simulation                              | ■                                   | ■                                                   | ■                                     |
| Free Surface                                          | ■                                   | ■                                                   | ■                                     |
| Noise Prediction                                      | ■                                   | ■                                                   | ■                                     |
| Multi-Parameter Optimization                          | ■                                   | ■                                                   | ■                                     |
| Two-Phase (Fluid + Particles) Flows                   | ■                                   | ■                                                   | ■                                     |
| Porous Components                                     | ■                                   | ■                                                   | ■                                     |
| Fan Derating                                          | ■                                   | ■                                                   | ■                                     |
| Dedicated Electronic Cooling Simulation               |                                     | ■                                                   |                                       |
| Joule Heating Simulation                              |                                     | ■                                                   |                                       |
| Enriched Library                                      |                                     | ■                                                   | ■                                     |
| Thermal Comfort Parameters Simulation                 |                                     |                                                     | ■                                     |
| Advanced Radiation Simulation                         |                                     |                                                     | ■                                     |
| Tracer Study                                          |                                     |                                                     | ■                                     |
| SOLIDWORKS PLASTICS<br>PRODUCT FEATURES               | SOLIDWORKS<br>PLASTICS<br>PREMIUM   | SOLIDWORKS<br>PLASTICS<br>PROFESSIONAL              | SOLIDWORKS<br>PLASTICS<br>STANDARD    |
| ▼ CAD Integration                                     |                                     |                                                     |                                       |
| Associative with SOLIDWORKS                           | ■                                   | ■                                                   | ■                                     |
| Design Data Re-use                                    | ■                                   | ■                                                   | ■                                     |
| ▼ Plastics Material Database                          |                                     |                                                     |                                       |
| 4000+ Commercial Plastics                             | ■                                   | ■                                                   | ■                                     |
| Plastics Material Databases in 3D ContentCentral      | ■                                   | ■                                                   | ■                                     |
| ▼ Meshing                                             |                                     |                                                     |                                       |
| Boundary Mesh (Shell) & Solid 3D Mesh                 | ■                                   | ■                                                   | ■                                     |
| Parallel Computing - (Multi-core)                     | ■                                   | ■                                                   | ■                                     |

| SOLIDWORKS PLASTICS<br>PRODUCT FEATURES                                | SOLIDWORKS<br>PLASTICS<br>PREMIUM | SOLIDWORKS<br>PLASTICS<br>PROFESSIONAL | SOLIDWORKS<br>PLASTICS<br>STANDARD       |
|------------------------------------------------------------------------|-----------------------------------|----------------------------------------|------------------------------------------|
| ✦ Simulation Capabilities                                              |                                   |                                        |                                          |
| Filling Phase (1st Stage Injection)                                    | ■                                 | ■                                      | ■                                        |
| Packing Phase (2nd Stage Injection)                                    | ■                                 | ■                                      |                                          |
| Instantaneous Filling Pattern Visualizer                               | ■                                 | ■                                      | ■                                        |
| Runner Balancing                                                       | ■                                 | ■                                      | ■                                        |
| Sink Mark, Weld lines & Air Traps                                      | ■                                 | ■                                      | ■                                        |
| ✦ Mold Geometry Support                                                |                                   |                                        |                                          |
| Runner Design Wizard                                                   | ■                                 | ■                                      |                                          |
| Multi-Cavity Molds                                                     | ■                                 | ■                                      |                                          |
| ✦ Advanced Simulation Capabilities                                     |                                   |                                        |                                          |
| Co-Injection                                                           | ■                                 | ■                                      |                                          |
| Insert Overmolding                                                     | ■                                 | ■                                      |                                          |
| Multi-Material Overmolding Injection Process                           | ■                                 | ■                                      |                                          |
| Cooling Lines Analysis                                                 | ■                                 |                                        |                                          |
| Warpage Analysis                                                       | ■                                 |                                        |                                          |
| ✦ Results                                                              |                                   |                                        |                                          |
| Pressure & Temperature at End of Fill                                  | ■                                 | ■                                      | ■                                        |
| Flow Front Temperature                                                 | ■                                 | ■                                      | ■                                        |
| Sink Mark Profiles                                                     | ■                                 | ■                                      | ■                                        |
| Frozen Layer Fraction at End of Fill                                   | ■                                 | ■                                      | ■                                        |
| Velocity Vectors                                                       | ■                                 | ■                                      | ■                                        |
| Cycle Time                                                             | ■                                 | ■                                      | ■                                        |
| Part Cooling Time                                                      | ■                                 | ■                                      |                                          |
| ✦ Report Generation                                                    |                                   |                                        |                                          |
| Microsoft® Word                                                        | ■                                 | ■                                      | ■                                        |
| Microsoft® PowerPoint                                                  | ■                                 | ■                                      | ■                                        |
| HTML                                                                   | ■                                 | ■                                      | ■                                        |
| SOLIDWORKS PRODUCT<br>DATA MANAGEMENT FEATURES                         | SOLIDWORKS PDM<br>PROFESSIONAL    |                                        | SOLIDWORKS<br>MANAGE                     |
| Secure File Vaulting                                                   | ■                                 |                                        | ■                                        |
| Find & Re-use Design Data, Advanced Integrated Search                  | ■                                 |                                        | ■                                        |
| File Management                                                        | ■                                 |                                        | ■                                        |
| Revision Control & Engineering Change Management                       | ■                                 |                                        | ■                                        |
| Serial Number Generators                                               | ■                                 |                                        | ■                                        |
| BOM Management                                                         | ■                                 |                                        | ■                                        |
| Automated Approval Process                                             | ■                                 |                                        | ■                                        |
| Automated Data Import and Export                                       | ■                                 |                                        | ■                                        |
| Audit Trail, Regulatory Compliance                                     | ■                                 |                                        | ■                                        |
| Automated Neutral File Creation                                        | ■                                 |                                        | ■                                        |
| Email Notifications                                                    | ■                                 |                                        | ■                                        |
| Multi Document Preview & Integrated eDrawings Preview                  | ■                                 |                                        | ■                                        |
| Custom Configuration                                                   | ■                                 |                                        | ■                                        |
| Enterprise Scalability                                                 | ■                                 |                                        | ■                                        |
| Remote Access, Multi Site Access                                       | ■                                 |                                        | ■                                        |
| Project Management, Process Management, Item Management                |                                   |                                        | ■                                        |
| User Tasks & Resource Management                                       |                                   |                                        | ■                                        |
| Dashboards and Reports                                                 |                                   |                                        | ■                                        |
| SOLIDWORKS ELECTRICAL<br>PRODUCT FEATURES                              | SOLIDWORKS<br>ELECTRICAL<br>2D    | SOLIDWORKS<br>ELECTRICAL<br>3D         | SOLIDWORKS<br>ELECTRICAL<br>PROFESSIONAL |
| 2D Schematic Tool for Electrical Systems Design                        |                                   |                                        |                                          |
| Single and Multi-line Schematics                                       | ■                                 |                                        | ■                                        |
| 2D Documentation: Drawings, BOMs,<br>Wire Lists, Terminal Strips Lists | ■                                 |                                        | ■                                        |
| Multi-user & Multi-project Design Capability                           | ■                                 |                                        | ■                                        |
| PLC Management: Automation Tools to Integrate<br>PLCs into Your Design | ■                                 |                                        | ■                                        |
| Data on Over 500,000 Standard Electrical Parts                         | ■                                 |                                        | ■                                        |

| SOLIDWORKS ELECTRICAL<br>PRODUCT FEATURES                                          | SOLIDWORKS<br>ELECTRICAL<br>2D | SOLIDWORKS<br>ELECTRICAL<br>3D        | SOLIDWORKS<br>ELECTRICAL<br>PROFESSIONAL |
|------------------------------------------------------------------------------------|--------------------------------|---------------------------------------|------------------------------------------|
| SOLIDWORKS PDM Integration                                                         | ■                              |                                       | ■                                        |
| Real-time Interaction with 3D Model                                                |                                | ■                                     | ■                                        |
| Leverage 2D Schematic Design Data from<br>SOLIDWORKS Electrical in the 3D Model    |                                | ■                                     | ■                                        |
| Place Electrical Items in 3D to Ensure Fit                                         |                                | ■                                     | ■                                        |
| Plan 3D Cable/ Wire/ Harness Paths Through Your<br>Machine and Calculate Lengths   |                                | ■                                     | ■                                        |
| Harness Design in 3D                                                               |                                | ■                                     | ■                                        |
| Web Link for More 3D Models                                                        |                                | ■                                     | ■                                        |
| Single Install and Licensing Step Covering Both Products                           |                                |                                       | ■                                        |
| SOLIDWORKS COMPOSER<br>PRODUCT FEATURES                                            |                                | SOLIDWORKS<br>COMPOSER                | SOLIDWORKS<br>COMPOSER<br>PLAYER         |
| Create Keyframe Animation by Drag-drop Views on Timeline                           |                                | ■                                     |                                          |
| Update Animation with Latest Design Changes                                        |                                | ■                                     |                                          |
| Static Images (Raster Graphics and Vector Line Art)                                |                                | ■                                     |                                          |
| Dynamic Avi Videos (Multiple Codecs Supported)                                     |                                | ■                                     |                                          |
| Interactive 3d Documents (as Lightweight Executable)                               |                                | ■                                     |                                          |
| Standardize Styles for Creating Content (Balloons, Labels, Annotations)            |                                | ■                                     |                                          |
| Standardize Default Document Settings Output Qualities, Security Rights            |                                | ■                                     |                                          |
| Publish Consistent Quality with Paperspace                                         |                                | ■                                     |                                          |
| Automate Batch Mode Import of 3D Files and Publishing Content                      |                                |                                       | ■                                        |
| Automate Document Creation Within Existing Workflow Systems                        |                                |                                       | ■                                        |
| Rotate, Zoom, Animate, Measure, View Bom, Section<br>(Rights Controlled by Author) |                                |                                       | ■                                        |
| Create Custom Applications To Distribute Internally or Over Website                |                                |                                       | ■                                        |
| SOLIDWORKS INSPECTION<br>PRODUCT FEATURES                                          |                                | SOLIDWORKS<br>INSPECTION PROFESSIONAL | SOLIDWORKS<br>INSPECTION STANDARD        |
| ▼ SOLIDWORKS INSPECTION ADDIN                                                      |                                |                                       |                                          |
| SOLIDWORKS Embedded Add-In                                                         |                                | ■                                     | ■                                        |
| SOLIDWORKS Drawing Native File Support                                             |                                | ■                                     | ■                                        |
| ▼ SOLIDWORKS INSPECTION STANDALONE APPLICATION                                     |                                |                                       |                                          |
| PDF and TIFF Files Support (.pdf, .tif, .tiff)                                     |                                | ■                                     | ■                                        |
| 2D CAD Files Support (*.dwg, *.CATDrawing, *.prt)                                  |                                | ■                                     | ■                                        |
| 3D CAD Files Support (*.CATPart, *.CATProduct, *.prt, *.asm, *.3dxml)              |                                | ■                                     | ■                                        |
| Optical Character Recognition (OCR)                                                |                                | ■                                     | ■                                        |
| Nominal Value and Plus/Minus Tolerances                                            |                                | ■                                     | ■                                        |
| Upper and Lower Limits Calculation                                                 |                                | ■                                     | ■                                        |
| Compare Drawing / 3D model Revisions                                               |                                | ■                                     | ■                                        |
| ExtractionXpert®                                                                   |                                | ■                                     | ■                                        |
| Smart Extract                                                                      |                                | ■                                     | ■                                        |
| ▼ QUALITY SYSTEMS INTEGRATION                                                      |                                |                                       |                                          |
| Export to XML                                                                      |                                | ■                                     | ■                                        |
| ▼ REPORT GENERATION                                                                |                                |                                       |                                          |
| Export Ballooned Drawing to PDF                                                    |                                | ■                                     | ■                                        |
| Export Inspection Report to Microsoft® Excel®                                      |                                | ■                                     | ■                                        |
| Pre-defined Industry Standard Templates (AS9102, PPAP, etc.)                       |                                | ■                                     | ■                                        |
| ▼ RESULTS INPUT                                                                    |                                |                                       |                                          |
| Characteristics Measurements Input                                                 |                                | ■                                     |                                          |
| Digital Measuring Tools Support (Digital Caliper, etc.)                            |                                | ■                                     |                                          |
| CMM Data Import (PC-DMIS, Calypso, Faro CAM2, etc.)                                |                                | ■                                     |                                          |
| Graphical Pass/Fail Status                                                         |                                | ■                                     |                                          |

| SOLIDWORKS MBD<br>PRODUCT FEATURES                                                                                                                                                | SOLIDWORKS<br>MBD STANDARD | SOLIDWORKS<br>STANDARD                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------|
| ▼ 3D PRODUCT MANUFACTURING INFORMATION (PMI) DEFINITION                                                                                                                           |                            |                                                                                 |
| Intelligent Dimensioning, Tolerancing, and Annotation (DimXpert) Freestyle Dimensioning, Tolerancing, and Annotation (Reference Dimensions) Comprehensive Bill of Materials (BOM) | ■                          | ■                                                                               |
| DimXpert in Assembly                                                                                                                                                              | ■                          |                                                                                 |
| ▼ 3D PMI ORGANIZATION                                                                                                                                                             |                            |                                                                                 |
| 3D Annotation Views                                                                                                                                                               | ■                          | ■                                                                               |
| Automatic Show and Hide Annotations as a Model Rotates                                                                                                                            | ■                          |                                                                                 |
| 3D Views Capturing Annotation Views, Configurations, Display States, Section View, and Other View Settings                                                                        | ■                          |                                                                                 |
| Compare 3D Annotation Differences Between Revisions                                                                                                                               | ■                          |                                                                                 |
| 3D Model Break Views                                                                                                                                                              | ■                          |                                                                                 |
| ▼ 3D OUTPUT                                                                                                                                                                       |                            |                                                                                 |
| Publish to eDrawings                                                                                                                                                              | ■                          | ■                                                                               |
| 3D Output Template Customization                                                                                                                                                  | ■                          |                                                                                 |
| 3D PDF with 3D PMI, Views, and Meta Properties, BOM                                                                                                                               | ■                          |                                                                                 |
| Export Step 242 With Software Readable Annotations                                                                                                                                | ■                          |                                                                                 |
| SOLIDWORKS VISUALIZE<br>PRODUCT FEATURES                                                                                                                                          | VISUALIZE<br>PROFESSIONAL  | VISUALIZE<br>STANDARD<br><small>(SOLIDWORKS PREMIUM &amp; PROFESSIONAL)</small> |
| Graphics Processing Unit (GPU) Accelerated Rendering                                                                                                                              | ■                          | ■                                                                               |
| Hybrid Render Mode                                                                                                                                                                | ■                          | ■                                                                               |
| Physically-Based Raytracing                                                                                                                                                       | ■                          | ■                                                                               |
| CAD and Graphic File Support                                                                                                                                                      | ■                          | ■                                                                               |
| Decals (Interactive Stickers)                                                                                                                                                     | ■                          | ■                                                                               |
| Advanced Material Support with NVIDIA MDL and PBR                                                                                                                                 | ■                          | ■                                                                               |
| Support for High-Resolution Displays (4K monitors and beyond)                                                                                                                     | ■                          | ■                                                                               |
| Integrated Render Queue                                                                                                                                                           | ■                          |                                                                                 |
| Visualize Boost Support                                                                                                                                                           | ■                          |                                                                                 |
| Full Animation Suite                                                                                                                                                              | ■                          |                                                                                 |
| Create VR Content                                                                                                                                                                 | ■                          |                                                                                 |
| Video Decals                                                                                                                                                                      | ■                          |                                                                                 |
| Integrated Physics Engine                                                                                                                                                         | ■                          |                                                                                 |
| Vehicle Driving Simulator                                                                                                                                                         | ■                          |                                                                                 |
| Browser-based Interactive Image and Panoramic Outputs                                                                                                                             | ■                          |                                                                                 |
| DRAFTSIGHT<br>PRODUCT FEATURES                                                                                                                                                    | DRAFTSIGHT<br>ENTERPRISE   | DRAFTSIGHT<br>ENTERPRISE<br>PLUS                                                |
| 2D Design & Documentation Tools                                                                                                                                                   | ■                          | ■                                                                               |
| 3D Design Capabilities & 2D Constraints                                                                                                                                           |                            | ■                                                                               |
| Network Licensing                                                                                                                                                                 | ■                          | ■                                                                               |
| Full Technical Support (Telephone & Email)                                                                                                                                        | ■                          | ■                                                                               |



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