

## SOLIDWORKS 3D DESIGN PRODUCT MATRIX

| ▶ PART AND ASSEMBLY MODELING           BD Solid Modeling         ■         ■           Large assembly design capabilities         ■         ■         ■           Advanced surfacing         ■   |   | SOLIDWORKS<br>PREMIUM | SOLIDWORKS<br>PROFESSIONAL | SOLIDWORKS<br>STANDARD |
|--|---|-----------------------|----------------------------|------------------------|
| Large assembly design capabilitiesAdvanced surfacingSheet metalWeldmentsMold DesignMold DesignRead PCB atta as 3D partsDirect model modificationDirect model modificationFull ECAD-MCAD data exchangeFull ECAD-MCAD data exchangePiping/Lubing DesignAutomatic Drawing View CreationAutomatic Drawing View CreationDimensioningBills of Materials, cut listsInternational standards supportStandards CheckingStandards CheckingDrawing Control(compare)Standards CheckingDirektionsStandards CheckingDesign AutomationStandards CheckingDesign AutomationStandards CheckingDiscing Standards CheckingDiscing Standards CheckingDiscing AutomationStandards CheckingDiscing AutomationDiscing AutomationStandards CheckingDesign AutomationStandards CheckingDiscing AutomationDiscing AutomationDiscing AutomationDiscing AutomationDiscing AutomationDiscing AutomationDiscing AutomationDiscing Aut  | ✓ PART AND ASSEMBLY MODELING                              |                       |                            |                        |
| Advanced surfacingIISheet metalIIIWeldmentsIIIMold DesignIIIRead PCB data as 3D partsIIIDirect model modificationIIIFull ECAD-MCAD data exchangeIIIPiping/tubing DesignIIIElectrical Cable/Harness designIIIY 2D DRAWINGSIIIAutomatic Drawing View CreationIIIAutomatic Drawing View UpdatesIIIDimensioningIIIIAutomatic hole tables, and pipe bending dataIIIDrawing Control (compare)IIIIStandards CheckingIIIIDistion RIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII  | 3D Solid Modeling   |                       |                            |                        |
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| Weldments       Image: Im   | Advanced surfacing  |                       |                            |                        |
| Mold DesignImage: Constraint of the sector of t                          | Sheet metal   |                       |                            |                        |
| Read PCB data as 3D partsImage: Standard SupportDirect model modificationImage: Standard SupportFull ECAD-MCAD data exchangeImage: Standard SupportPiping/tubing DesignImage: Standard SupportElectrical Cable/Harness designImage: Standard SupportAutomatic Drawing View CreationImage: Standard SupportAutomatic Drawing View UpdatesImage: Standard SupportDimensioningImage: Standard SupportBills of Materials, cut listsImage: Standard SupportAutomatic CheckingImage: Standard SupportStandard SupportImage: Standard SupportStandard SupportImage: Standard SupportDesign AutomationImage: Standard SupportDesign AutomationImage: Standard SupportStandard SupportImage: Standard SupportStandard SupportImage: Standard SupportStandard SupportImage: Standard SupportDesign AutomationImage: Standard SupportDesign Automa  | Weldments   |                       |                            |                        |
| Direct model modificationImage: CAD-MCAD data exchangeFull ECAD-MCAD data exchangeImage: CAD-MCAD data exchangePiping/tubing DesignImage: CAD-MCAD data exchangeElectrical Cable/Harness designImage: CAD-MCAD data exchangeY 2D DRAWINGSImage: CAD-MCAD data exchangeAutomatic Drawing View CreationImage: CAD-MCAD data exchangeAutomatic Drawing View UpdatesImage: CAD-MCAD data exchangeDimensioningImage: CAD-MCAD data exchangeBills of Materials, cut listsImage: CAD-MCAD data exchangeAutomatic hole tables, weld tables, and pipe bending dataImage: CAD-MCAD data exchangeInternational standards supportImage: CAD-MCAD data exchangeStandards CheckingImage: CAD-MCAD data exchangeFlattened harness drawingsImage: CAD-MCAD data exchangeSolidWorks SearchImage: CAD-MCAD data exchangeDesign AutomationImage: CAD-MCAD data exchangeDe   | Mold Design   |                       |                            |                        |
| Full ECAD-MCAD data exchange       I         Piping/tubing Design       I         Electrical Cable/Harness design       I         Y 2D DRAWINGS       I         Automatic Drawing View Creation       I         Automatic Drawing View Updates       I         Dimensioning       I         Annotation       I         Bills of Materials, cut lists       I         Automatic Drawing View Updates       I         Dimensioning       I         Automatic no       I         Bills of Materials, cut lists       I         Durawing Control (compare)       I         Standards Checking       I         Pastign Automation       I         SolidWorks Search       I         Design Automation       I         Design  | Read PCB data as 3D parts                                 |                       |                            |                        |
| Piping/tubing Design       Image: Component Sand Sand Part Pasteners         Electrical Cable/Harness design       Image: Component Sand Sand Pasteners         Automatic Drawing View Creation       Image: Component Sand Sand Pasteners         Automatic Drawing View Updates       Image: Component Sand Sand Pasteners         Dimensioning       Image: Component Sand Sand Pasteners         Annotation       Image: Component Sand Sand Pasteners         Bills of Materials, cut lists       Image: Component Sand Pasteners         Automatic hole tables, weld tables, and pipe bending data       Image: Component Library         International standards support       Image: Component Library         Solid Works Search       Image: Component Library         Solid Works Teams       Image: Component Library  | Direct model modification                                 |                       |                            |                        |
| Electrical Cable/Harness design            ✓ 2D DRAWINGS          Automatic Drawing View Creation <ul> <li>Automatic Drawing View Updates</li> <li>Imensioning</li> <li>Imensioning</li> </ul> Annotation <ul> <li>Imensioning</li> <li>Imensioning</li> </ul> Automatic Drawing View Updates <ul> <li>Imensioning</li> <li>Imensioning</li> <li>Imensioning</li> <li>Imensioning</li> <li>Imensioning</li> </ul> Automatic Indextore <ul> <li>Imensioning</li> <li>Imensioning</li> </ul> Automatic Note tables, weld tables, and pipe bending data <li>International standards support</li> <ul> <li>International standards support</li> <li>Imensioning</li> <li>Imensioning</li> <li>Imensioning</li> <li>Imensioning</li> <li>Imensioning</li> </ul> Trawing Control (compare)       Imensioning       Imensioning         Standards Checking       Imensioning       Imensioning         Flattened harmess drawings       Imensioning       Imensioning         SolidWorks Search       Imensioning       Imensioning         Design Automation       Imensioning       Imensioning         Design Library       Imensioning       Imensioning  | Full ECAD-MCAD data exchange                              |                       |                            |                        |
| Y       2D DRAWINGS         Automatic Drawing View Creation       •         Automatic Drawing View Updates       •         Dimensioning       •         Annotation       •         Bills of Materials, cut lists       •         Automatic blee, weld tables, and pipe bending data       •         International standards support       •         Drawing Control (compare)       •         Standards Checking       •         Flattened harness drawings       •         SolidWorks Search       •         Design Automation       •         Design Library       •         3D Models from Suppliers       •         Standard Componentt Library       •  | Piping/tubing Design                                      |                       |                            |                        |
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| Automatic Drawing View UpdatesImage: Image: Ima                          | ✓ 2D DRAWINGS   |                       |                            |                        |
| DimensioningImage: Image:                           | Automatic Drawing View Creation                           |                       |                            |                        |
| DimensioningAnnotationIIBills of Materials, cut listsIIAutomatic hole tables, weld tables, and pipe bending dataIIAutomatic hole tables, weld tables, and pipe bending dataIIInternational standards supportIIDrawing Control (compare)IIStandards CheckingIIFlattened harness drawingsIIV DESIGN REUSE AND VALIDATIONIISolidWorks SearchIIDesign AutomationIIConfigurationsIIDesign LibraryII3D Models from SuppliersIISmart Components and Smart FastenersIIStandard Component LibraryII   | Automatic Drawing View Updates                            |                       |                            |                        |
| Bills of Materials, cut lists •   Automatic hole tables, weld tables, and pipe bending data •   International standards support •   Drawing Control (compare) •   Standards Checking •   Flattened harness drawings •   V DESIGN REUSE AND VALIDATION •   SolidWorks Search •   Design Automation •   Configurations •   Design Library •   3D Models from Suppliers •   Standard Component Library •  | Dimensioning  |                       |                            |                        |
| Automatic hole tables, weld tables, and pipe bending dataImage: Construct of CompareInternational standards supportImage: Construct of CompareDrawing Control (compare)Image: Construct of CompareStandards CheckingImage: Construct of CompareFlattened harness drawingsImage: Construct of CompareV DESIGN REUSE AND VALIDATIONImage: Construct of Construct of ConfigurationsSolidWorks SearchImage: ConfigurationsDesign LibraryImage: Components and Smart FastenersSmart Component LibraryImage: Component Library   | Annotation  |                       |                            |                        |
| International standards support International standards International standard | Bills of Materials, cut lists                             |                       |                            |                        |
| Drawing Control (compare)Image: Compare (Compare)Standards CheckingImage: Compare (Compare)Flattened harness drawingsImage: Compare (Compare)V DESIGN REUSE AND VALIDATIONImage: Compare (Compare)SolidWorks SearchImage: Compare (Compare)Design AutomationImage: Compare)ConfigurationsImage: Compare)Design LibraryImage: Compare)3D Models from SuppliersImage: Component Sand Smart FastenersStandard Component LibraryImage: Compare)  | Automatic hole tables, weld tables, and pipe bending data |                       |                            |                        |
| Standards Checking •   Flattened harness drawings •   V DESIGN REUSE AND VALIDATION •   SolidWorks Search •   Design Automation •   Configurations •   Design Library •   3D Models from Suppliers •   Smart Components and Smart Fasteners •   Standard Component Library •   | International standards support                           |                       |                            |                        |
| Flattened harness drawings    DESIGN REUSE AND VALIDATION    SolidWorks Search   Design Automation   Configurations   Configurations   Design Library   3D Models from Suppliers   Smart Components and Smart Fasteners   Standard Component Library   | Drawing Control (compare)                                 |                       |                            |                        |
| V DESIGN REUSE AND VALIDATION         SolidWorks Search       Image: Configuration         Design Automation       Image: Configurations         Configurations       Image: Configurations         Design Library       Image: Configurations         3D Models from Suppliers       Image: Component Fasteners         Smart Component Library       Image: Component Library  | Standards Checking  |                       |                            |                        |
| SolidWorks SearchImage: ConfigurationDesign AutomationImage: ConfigurationsConfigurationsImage: ConfigurationsDesign LibraryImage: Configurations3D Models from SuppliersImage: ConfigurationsSmart Components and Smart FastenersImage: ConfigurationsStandard Component LibraryImage: Configurations   | Flattened harness drawings                                |                       |                            |                        |
| Design AutomationImage: ConfigurationsConfigurationsImage: ConfigurationsDesign LibraryImage: Configurations3D Models from SuppliersImage: ConfigurationsSmart Components and Smart FastenersImage: ConfigurationsStandard Component LibraryImage: Configurations  | ✓ DESIGN REUSE AND VALIDATION                             |                       |                            |                        |
| ConfigurationsImage: ConfigurationsDesign LibraryImage: Configuration of the second of the   | SolidWorks Search   |                       |                            |                        |
| Design Library       Image: Component Suppliers         3D Models from Suppliers       Image: Component Suppliers         Smart Component Sand Smart Fasteners       Image: Component Library         Standard Component Library       Image: Component Suppliers  | Design Automation   |                       |                            |                        |
| 3D Models from Suppliers       Image: Components and Smart Fasteners         Smart Component Library       Image: Component Library  | Configurations  |                       |                            |                        |
| Smart Components and Smart Fasteners     Image: Component Fasteners       Standard Component Library     Image: Component Fasteners  | Design Library  |                       |                            |                        |
| Standard Component Library   | 3D Models from Suppliers                                  |                       |                            |                        |
|  | Smart Components and Smart Fasteners                      |                       |                            |                        |
| Task Scheduler   | Standard Component Library                                |                       |                            |                        |
|  | Task Scheduler  |                       |                            |                        |



## SOLIDWORKS 3D DESIGN PRODUCT MATRIX

|  | SOLIDWORKS<br>PREMIUM | SOLIDWORKS<br>PROFESSIONAL | SOLIDWORKS<br>STANDARD |
|--|-----------------------|----------------------------|------------------------|
| ✓ ANIMATIONS AND RENDERINGS              |                       |                            |                        |
| Assembly animation                       |                       |                            | -                      |
| Walk-through/fly through animations      |                       |                            |                        |
| Photorealistic rendering                 |                       |                            |                        |
| ✓ DESIGN VALIDATION AND SIMULATION       |                       |                            |                        |
| Collision and Interference Detection     |                       |                            |                        |
| Hole Alignment checks                    |                       |                            |                        |
| Check manufacturability                  |                       |                            |                        |
| Fluid flow simulation                    |                       |                            |                        |
| Sustainability                           |                       |                            |                        |
| Draft and undercut analysis              |                       |                            |                        |
| Cost estimation                          |                       |                            |                        |
| Tolerance stack-up analysis              |                       |                            |                        |
| Kinematic motion simulation              |                       |                            |                        |
| Structural validation                    |                       |                            |                        |
| ✓ COLLABORATE AND SHARE                  |                       |                            |                        |
| Import/export                            |                       |                            |                        |
| 3D for rapid prototyping                 |                       |                            |                        |
| Utilize 2D DWG/DXF data                  |                       |                            |                        |
| Protect design information while sharing |                       |                            |                        |
| eDrawings                                |                       |                            |                        |
| Large Design Review                      |                       |                            |                        |
| eDrawings Professional                   |                       |                            |                        |
| Feature recognition                      |                       |                            |                        |
| Data Vaulting and revision control       |                       |                            |                        |
| Import scanned data                      |                       |                            |                        |