WHAT'S NEW IN SOLIDWORKS EDUCATION EDITION 2016-2017
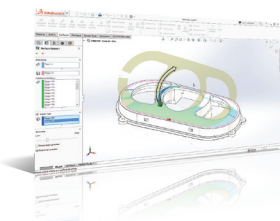
1 SOLIDWORKS VISUALIZE—BRING YOUR DESIGNS TO LIFE
- Improved functionality for media-ready images, movies and immersive content
- Use both CPU and GPU to speed up rendering — less time to quality result

Benefits
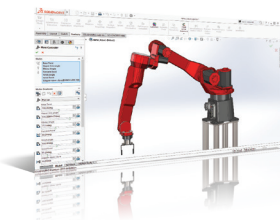
More realistic photo-quality rendering in less time.

2 ENHANCED PART MODELING CAPABILITIES
- Thread Wizard tool to create internal and external threads
- Bi-directional sweep and curvature continuous edge fillets
- Flatten surface includes flattening of curves
- Sheet Metal allows cuts in the bend area of swept flange and edge flanges can now be longer than the attachment edge

Benefits

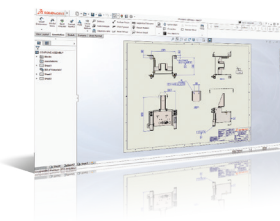**Expanded modeling capabilities improve accuracy and speed design.**

3 STREAMLINED ASSEMBLY DEVELOPMENT
- Component preview window for mate selections
- Mate Controller for fast capture and recall of mate positions
- Replace multiple failed mate references in one step
- Copy multiple components and retain mates
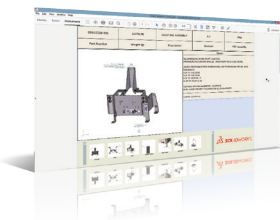
Benefits

Reduced time to create assemblies.

4 FASTER 2D DRAWING CREATION
- Automatic Border tool controls sheet format border
- New model Break View tool
- Turn off view scale for center marks and other detailing improvements
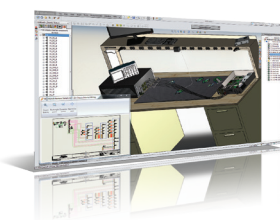
Benefits

Simplified creation of drawings.

5 "DRAWINGLESS" MANUFACTURING ENHANCED
- Create DimXpert dimensions in Assembly
- Display and associate model coordinate systems automatically
- Publish and print multiple sheets, tables, and viewports in 3D PDF

Benefits

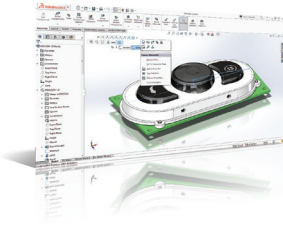**Faster creation of 3D dimensions and tolerances, as well as streamlined downstream manufacturing functions.**

6 IMPROVED ELECTRICAL DESIGN AND COMMUNICATION
- Streamlined workflow with contextual information display
- SOLIDWORKS Electrical for DraftSight® add-in with real-time redline, annotation, and reporting

Benefits

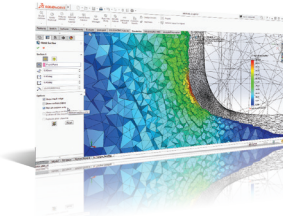**Improved productivity for electrical design.**

7 MAKING DESIGN EASIER

- New "breadcrumbs" tracking/selection of items in model hierarchy
- Better support for high-resolution monitors and expandable Property Manager input panels
- Sketch: dynamically manipulate dimensioned sketch entities
- My.SolidWorks: Search function available inside SOLIDWORKS 2016

Benefits

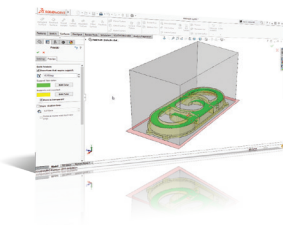Reduced "picks and clicks" for functionality you use most often.

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8 SIMPLIFYING DESIGN VALIDATION

- Simulation: Find unconstrained degrees of freedom, turn constraints on and off, and perform mesh sectioning
- Plastics: Enhanced Solver performance and improved indirect flow front tracking
- Flow: Improved mesh refinement controls and transient solver speed

Benefits

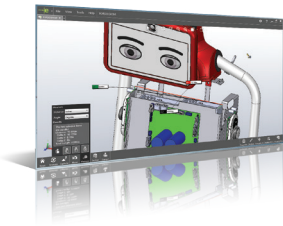Faster, more intuitive design validation.

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9 CONNECTING DESIGN AND MANUFACTURING

- 3D Printing: 3D print preview using textures and show areas requiring supports
- Inspection: OCR Editor to customize and improve optical character recognition dictionaries and output horizontal inspection reports
- Costing: Cost an entire assembly, nesting for sheet metal, and rules to modify settings automatically
- Compare Geometry: Save geometry differences directly into either model being compared

Benefits

Extending SOLIDWORKS capabilities for manufacturing.

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10 EXPANDED COMMUNICATION, COLLABORATION, CERTIFICATION AND COMMUNITY

- CSWP-Academic: Certification that proves the ability to design and analyze parametric parts and moveable assemblies using a variety of complex features in SOLIDWORKS software.
  Students must have CSWA - Academic certification prior to taking the CSWP - Academic Exam
- MySolidWorks for Students: access to 300+ training videos, online storage services for sharing designs with a worldwide network of users and manufacturers
- eDrawings®: AR for Android™; 3D Views and annotation views for assemblies; Component descriptions; Weld beads; Undo/Redo
- Import/Export: Export material properties to IFC 2x3, export IFC 4.0, import PTC® Creo® 3.0, import large STL models and FeatureWorks®; supports ANSI inch hole upon import

Benefits

New, better data management and collaboration tools.

To learn more about SOLIDWORKS Education 2016-2017, visit is at www.solidworks.com/edulaunch.

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