

# WHAT'S NEW IN SOLIDWORKS EDUCATION EDITION 2017-2018

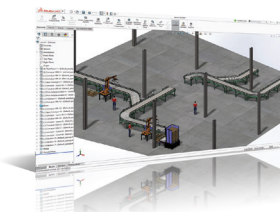


## 1 SOLIDWORKS 3D INTERCONNECT

- Open proprietary 3D CAD data directly into SOLIDWORKS including Creo®, CATIA® V5, Solid Edge®, NX™, and Inventor® and retain associativity to the original file

### Benefits

Work seamlessly with anyone and incorporate design changes dramatically faster.

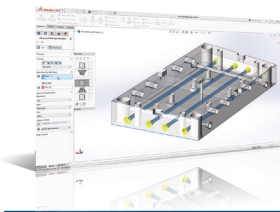


## 2 IMPROVED LARGE ASSEMBLY PERFORMANCE

- New Asset Publisher, Ground Mates and Magnetic Mates speed equipment layouts
- Replace sub-assembly with multi-body part and maintain downstream references; replace missing references all at once

### Benefits

Speed design of large assemblies and layouts machinery and equipment.



## 3 MORE POWERFUL MODELING TOOLS

- New Advanced Hole Wizard creates/reuses customized holes
- Wrap Feature now for any surface; offset 3D curve on surface with multiple faces
- Sheet Metal support for three-bend corners

### Benefits

Faster, easier modeling with fewer picks and clicks.



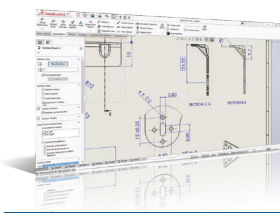
## 4 RENDERINGS AND ANIMATIONS WITH SOLIDWORKS VISUALIZE

- SOLIDWORKS Visualize Professional now include in the Education Edition and Student\* products installation.
- Import animations and motion studies
- Map SOLIDWORKS camera navigation and hot keys

*\*Not included in SDK.*

### Benefits

Simplified installation. Improved workflow between modeling, rendering, and viewing.

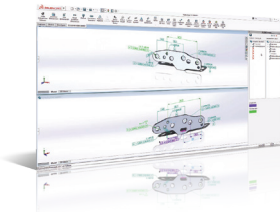


## 5 FASTER 2D DRAWING CREATION

- Reference and link to Bill of Material (BOM) table cell elements in annotations
- Parametrically mirror drawing views without the model
- Pre-defined layers

### Benefits

Simplified, faster drawing creation.

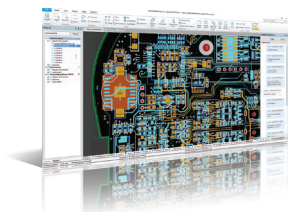


## 6 EXPANDED CAPABILITIES FOR MODEL BASED DEFINITION

- Compare geometry and 3D PMI between two revisions
- Define DimXpert 3D PMI more easily for drafted parts
- Export STEP 242 with 3D PMI to automate CAM and CMM
- Attach multiple files to 3D PDF to build Technical Data Packages (TDP)

### Benefits

Ease the transition from 2D drawings to model-based design (MBD).

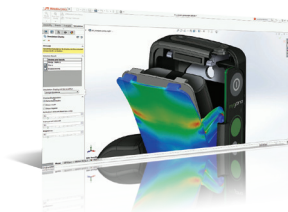


## 7 ELECTRIFYING ELECTRICAL/ELECTRONIC DESIGN

- **Electrical:** automatic creation of schematic from a spreadsheet
- **Electrical:** compound parts and accessories

### Benefits

Improve productivity for electrical design with expanded capabilities.

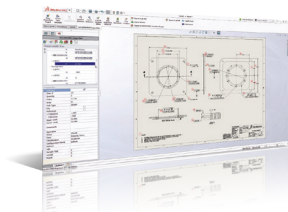


## 8 SIMPLIFYING DESIGN VALIDATION

- **Simulation:** display simulation results in SOLIDWORKS model; arc length control for nonlinear contact
- **Plastics:** Part Mass can be used in addition to gate temperature for gate freeze and pressure holding time determination
- **Flow:** Parametric Study now allows multi-parameter optimization

### Benefits

Handle more use cases with expanded simulation and tackle more design scenarios with extended capabilities.

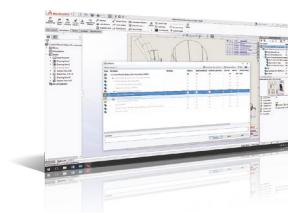


## 9 INTEGRATING DESIGN AND MANUFACTURING

- **3D Printing:** import/export 3MF; import mesh data
- **Inspection:** manual and selective ballooning
- **Costing:** instant estimates from manufacturers via MySolidWorks Manufacturing Network

### Benefits

Extending SOLIDWORKS capabilities for the manufacturing ecosystem.



## 10 IMPROVED DATA MANAGEMENT AND COLLABORATION

- **SOLIDWORKS PDM:** version overwrite; rollback with references; improved viewing
- **SOLIDWORKS PDM Professional:** Vault Database Replication
- **eDrawings®:** Augmented Reality (AR) for the Android™; 3D views and annotation views for assemblies; component descriptions; weld beads; undo/redo

### Benefits

Collaborate at more levels and manage data more efficiently.

See the full range of SOLIDWORKS software for design, simulation, technical communication, and data management at [www.solidworks.com/edulaunch](http://www.solidworks.com/edulaunch).

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