

# NEW ENHANCEMENTS IN SOLIDWORKS 2016: CAD

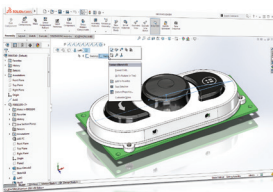


## 1 SOLIDWORKS VISUALIZE—BRING YOUR DESIGNS TO LIFE

- Improved functionality for media-ready images, movies, and immersive content.
- Use both CPU and GPU to speed up rendering—less time to achieve the quality result.

### Benefits

Achieve more realistic photo-quality rendering in less time.

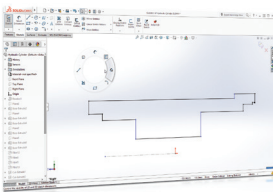


## 2 MAKING DESIGN EASIER

- New “breadcrumbs” tracking/selection of items in the model hierarchy.
- Better support for high-resolution monitors and expandable Property Manager input panels.
- Sketch: dynamically manipulate dimensioned sketch entities.

### Benefits

Focus on your design, not the software.

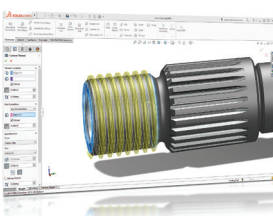


## 3 IMPROVED SKETCHING ENVIRONMENT

- Select midpoint directly; no need to right-click.
- Instant2D to allow fast editing of dimensioned sketch entities.
- New segment tool for splitting entities and adding equidistant relations.

### Benefits

Boost productivity with improvements to the tools you use the most.

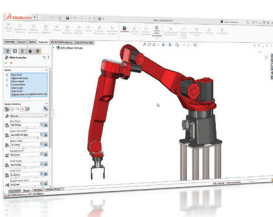


## 4 ENHANCED PART MODELING CAPABILITIES

- Thread Wizard tool to create internal and external threads.
- Bi-directional sweep and curvature to make continuous edge fillets.
- Flatten surface includes the flattening of curves.

### Benefits

Expanded modeling capabilities improve accuracy and speed design.

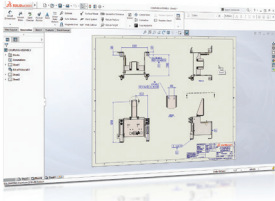


## 5 STREAMLINED ASSEMBLY ENVIRONMENT

- Use the component preview window for mate selections.
- Utilize the 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

Create assemblies in less time.

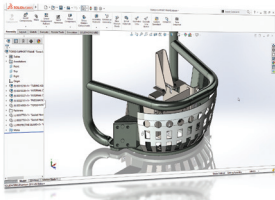


## 6 FASTER 2D DRAWING CREATION

- Automatic Border tool controls the sheet format border.
- Has new model Break View tool.
- Turn off view scale for center marks and other detailing improvements.

### Benefits

Simplify the creation of drawings.

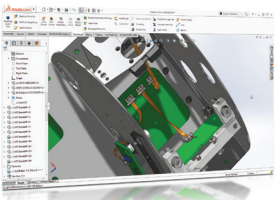


## 7 POWERFUL NEW SHEET METAL AND WELDMENT CAPABILITIES

- Cuts in swept flanges.
- Edge flange can now be longer than the attachment edge.
- Has structural member size lists and names by size and type.

### Benefits

Offer more flexibility and fewer workarounds for sheet metal and weldment designs.

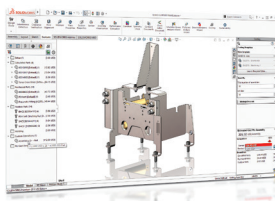


## 8 ELECTRIFY YOUR DESIGNS WITH SOLIDWORKS ROUTING ENHANCEMENTS

- Use auto-route for rectangular section routing.
- Route wires through cable trays or electrical ducts.
- Has rectangular section coverings.
- Provide support for flexible cables.

### Benefits

Use powerful tools to add electrical details to your designs.

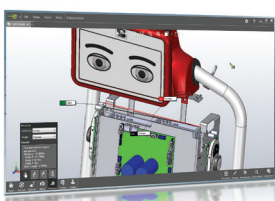


## 9 SOLIDWORKS COSTING ENHANCEMENTS

- Assembly costing roll-up and report generation
- Nesting for sheet metal parts—new stock size option
- Stock sheet size for sheet metal costing
- New user interface and rules-based costing

### Benefits

Provide consistent and more accurate quotes.



## 10 DESIGN COMMUNICATION MADE EASIER WITH EDRAWINGS®

- Tabbed documents, rotation about point, 3D views for assemblies
- Descriptions in component list
- Slider explode tool
- Support for radial explode

### Benefits

Utilize a richer toolset to share your design data.

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