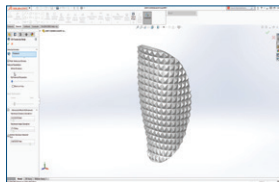


# WHAT'S NEW IN SOLIDWORKS 2019—3D CAD



## 1 MESH MODELING OPENS UP NEW DESIGN POSSIBILITIES

- Easily create complex textures by converting 2D appearances into real 3D geometry
- Use mesh files like they are solids using the new Segment Mesh
- Automatically create 2D sketches at intersections of geometry and a plane with the Slicing command

### Benefits

Increased capabilities for mesh geometry streamlining reverse engineering and topology optimization.



## 2 NEW WAYS TO INTERACT WITH SOLIDWORKS

- Support for Microsoft® Surface dial from the Surface Studio
- Sketch gesture recognition enhancements including splines and slots
- Improved Touch mode gestures including copy, select and drag, and 3D rotate lock
- Customize task pane tabs

### Benefits

Be more productive with the latest interfaces devices and SOLIDWORKS.

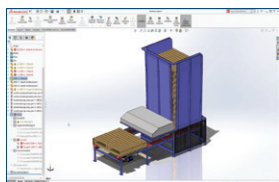


## 3 EXTEND YOUR SOLIDWORKS EXPERIENCE IN AR/VR

- Simplify the path from SOLIDWORKS® to Augmented (AR) and Virtual Reality (VR) with a new export option called Extended Reality (XR)
- Full support of latest graphics card types results in a dramatic frame rate increase

### Benefits

Faster performance and new ways to interact with your CAD data in AR/VR.

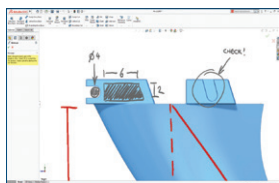


## 4 CREATE AND WORK WITH LARGE ASSEMBLIES FASTER

- Create new assemblies in Large Design Review mode
- Enhanced Defeature tool gives more control and usability for IP protection
- Save assembly as multi-body part has more options and more control
- Automatically lock rotation for Toolbox fasteners

### Benefits

Massive performance gains and workflow optimization with large assemblies.

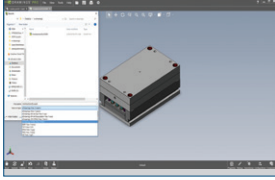


## 5 CLEARER AND FASTER COLLABORATION

- New export options for AEC and 3D Interconnect now supports IFC import
- 3D Mark up on parts and assemblies (also Pen/Touch enabled)
- Animation can now export .mp4, .flv, .mkv, .png and .jpg

### Benefits

More options for import and export to make collaboration easier.

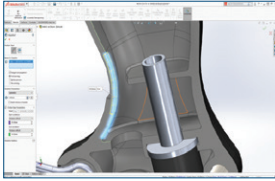


## 6 IMPROVED CAPABILITIES FOR EDRAWINGS

- Measure, mark-up and explode features are all now available in eDrawings Viewer
- New file viewing support—JT, Parasolid, NX, ACIS
- eDrawings® Professional can now save as 3D HTML for browser-based sharing plus AR/VR

### Benefits

Powerful new capabilities for sharing SOLIDWORKS data and viewing other formats.

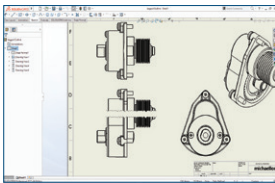


## 7 POWERFUL NEW TOOLS FOR PART MODELING

- Partial Fillet and Chamfer
- Interference detection for multi-body parts
- Streamlined insertion of a part with a specific configuration
- Materials and sheet metal parameters linked for sheet metal

### Benefits

Additional capabilities make SOLIDWORKS part modeling more powerful than ever before.

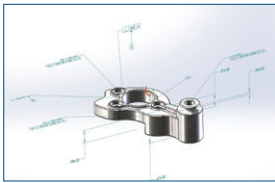


## 8 MORE FLEXIBILITY AND CONTROL FOR DRAWINGS

- Removed Section Views to show slices of the model at selected locations
- Drawing Open progress indicator
- Cell border thickness editing
- Customized Hole Table tags, numbers and order

### Benefits

New view creation capabilities and more control for perfect drawings.

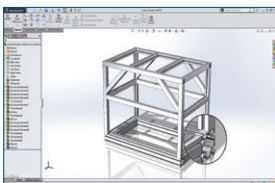


## 9 3D ANNOTATIONS FOR ALL

- DimXpert is now known as MBD Dimension
- MBD Dimension is available for assemblies in SOLIDWORKS Standard and above
- Carry over annotations from source to derived and mirrored parts
- MBD support for sheet metal bend notes, tables and lines

### Benefits

Accelerate downstream processes with 3D dimensions and tolerances.



## 10 MORE EFFICIENT CREATION OF WELDMENTS

- Easy positioning of weldment profile sketch
- Corner treatment enhancements
- Multi-edit structural profiles

### Benefits

More productivity when working with structural sections.

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