WHAT’S NEW IN SOLIDWORKS 2018: DESIGN TO MANUFACTURING PROCESS

1. INNOVATIVE USER EXPERIENCE IMPROVEMENTS
   - Freehand sketching with pen or touch on compatible devices
   - Touch and stylus support for many design tasks
   - Enhanced mouse gestures and user interface customization
   Benefits: Making SOLIDWORKS® easier and more intuitive to use.

2. SIMULATION TOPOLOGY STUDY FOR OPTIMIZATION OF PART GEOMETRY
   - Automatically optimizes the shape of a design.
   - Considers weight, function, and manufacturing criteria.
   Benefits: Fast, easy design optimization.

3. SOLIDWORKS CAM FOR CNC MACHINING
   - Rules-based machining results in easy-to-learn, yet fast and powerful CAM.
   - Powered by CAMWorks™: production-proven, integrated CAM for SOLIDWORKS.
   Benefits: Seamlessly integrate design and manufacturing.

4. SOLIDWORKS INSPECTION SUPPORT FOR MBD
   - Includes support for SOLIDWORKS MBD and non-native 3D CAD formats.
   - Automatically interprets SOLIDWORKS MBD models for inspection documentation.
   - SOLIDWORKS Inspection now integrated with SOLIDWORKS PDM.
   Benefits: Create inspection documentation directly from 3D models with Product and Manufacturing Information (PMI).

5. SHEET METAL FEATURES THAT IMPROVE MANUFACTURABILITY
   - Has a tab and slot feature for self-fixturing of parts for welding.
   - Normal cut feature ensures clearance included for manufacturing.
   - Corners that include three bends can be easily created and flattened.
### SOLIDWORKS MANAGE FOR PROJECT AND PROCESS MANAGEMENT

**Benefits**
- Data management, project management and process management all in one system.

- SOLIDWORKS PDM Professional plus powerful project, process, and item management
- Dashboards and reports to manage project stages, timelines, and milestones
- Create, edit and compare Bills of Materials (BOMs).

### CLOUD CONNECTED SOLIDWORKS

**Benefits**
- The power of desktop with the convenience of the cloud.

- SOLIDWORKS Online Licensing allows easier use of your license on multiple machines.
- SOLIDWORKS Login automatically moves customized content and settings to any machine on which SOLIDWORKS is installed.
- SOLIDWORKS Admin Portal allows easier management of SOLIDWORKS products and services.

### WORK DIRECTLY WITH MESH DATA

**Benefits**
- Work directly with mesh data with no need to convert to surfaces.

- Perform operations directly on mesh such as Cut, Cut with Surface, Interference Check, Combine, Intersect, Split, Move/Copy, and others.
- Convert solid or surface geometry to mesh.
- Quickly fit surface bodies to regions of mesh models for reverse engineering.

### WORK FASTER AND MORE EFFICIENTLY WITH ASSEMBLIES

**Benefits**
- Work faster without having to prepare the assembly or use special techniques.

- “Alt” key hides faces while mating.
- Ghost mode to turn all parts transparent.
- Allow mating of parts with misaligned holes.

### COLLABORATE MORE EFFICIENTLY FOR MODEL BASED ENTERPRISE

**Benefits**
- Speed design detailing and communication.

- Import and export STEP 242 including PMI.
- Import 3D models along with PMI from all major CAD formats.
- Display all SOLIDWORKS MBD created 3D Views in eDrawings®.

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