

# SheetMetal Designer (SMW)

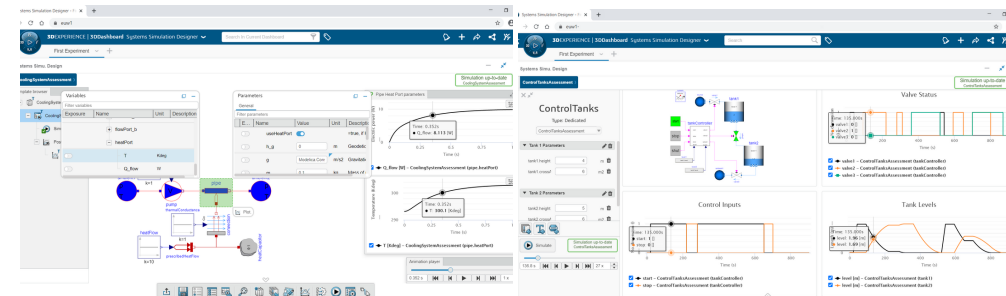
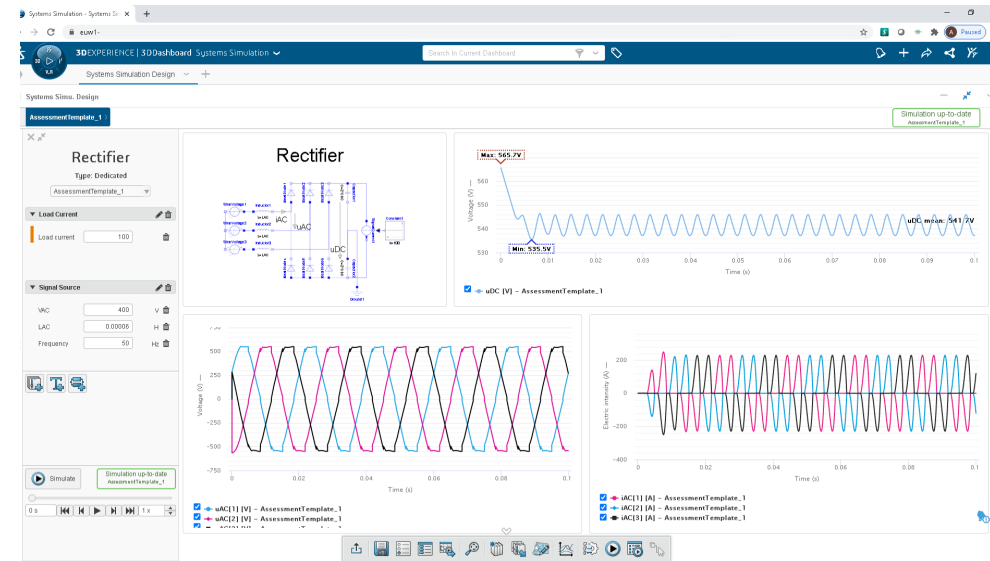
Sheet Metal Designer is the entry level package of the CATIA Engineering portfolio, allowing you to design core mechanical and sheet metal parts and products.

Sheet Metal Excellence Designer offers the following capabilities:

- Essential functionalities to design solid and surfacic geometry
- Dedicated app to design complex sheetmetal parts
- Core assembly apps to create product structure, connections and a first level of kinematics
- Associative and dedicated feature-based modeling
- Parallel design and collaboration between the members of the team

## Benefits

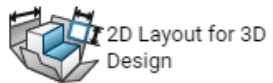
- Cover the end-to-end process for core mechanical & sheet metal design
- Explore innovative solutions and workable concepts for detailed design
- Reduce time-to-market by designing right the first time
- Be ready to overcome new challenges with a scalable solution
- Collaborate with your team and others
- Take benefits from your assets and reuse existing designs
- Work on large assemblies with flexibility
- Be more efficient on everyday tasks



# Highlights

- Conceptual design: use 2D or 3D techniques to create a workable concept for detailed design
- Detailed Design: Accelerate detailed design of the rough parts and check the feasibility to ensure the manufacturing requirements
- Unified user interface: Accelerate your design with natural manipulations and contextual interactions
- Product review: Detect and track interferences, check the weight distribution and analyze the digital mock-up with relevant engineering data
- Associative Drawings: Generate associative layouts with multi-views, dimensions, and associated bill of materials
- Reduces design and manufacturing errors thanks to process oriented sheet metal features
- Cuts tooling design thanks to dedicated manufacturing preparation functions
- Real-time collaboration: work in parallel and exchange through 3DEXPERIENCE Platform

# APPS



2D Layout for 3D Design



3D Annotation Experience



Design IP Classification



Design Review



Natural Shape



Part Design Essentials



3D Printing



3D Templates Capture



Drafting



Drafting Template Essentials



Product Finder



Product Structure Design



Assembly Design



Bent Part Design



Engineering IP Control



Exchange Management



Quality Rules Reuse



Sheet Metal Design



Bookmark Editor



Change Execution



Functional Part Design



Generative Wireframe & Surface



Simulation Finder



Sketch Tracer



Collaborative IP Management



Collaborative Lifecycle



Interference Check



Interference Finder



Smart Mechanical Components



System Finder



Component Family Definition



Converter for IGES



Manufacturing Finder



Material Definition



Weld Design



Converter for STEP



Data Setup



Mechanical Systems Design



Natural Assembly