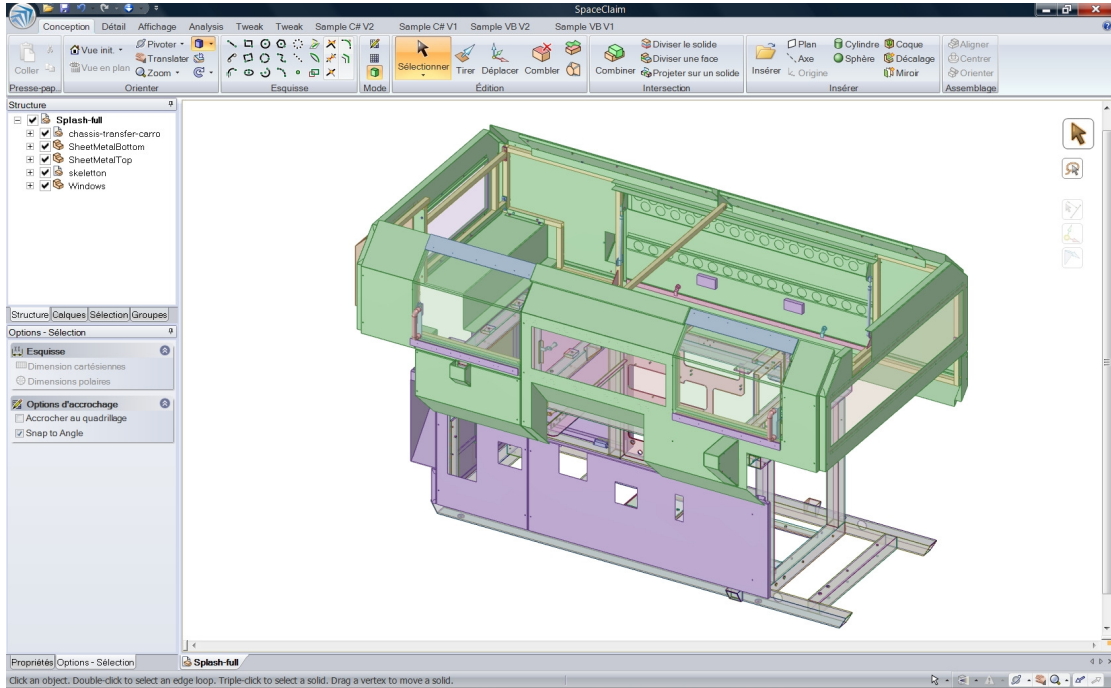




SPACECLAIM CORPORATION

SMOPlus  
Sheet Metal Optimizer

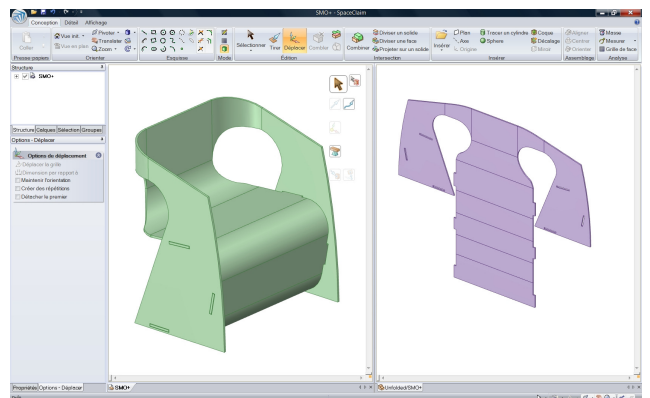
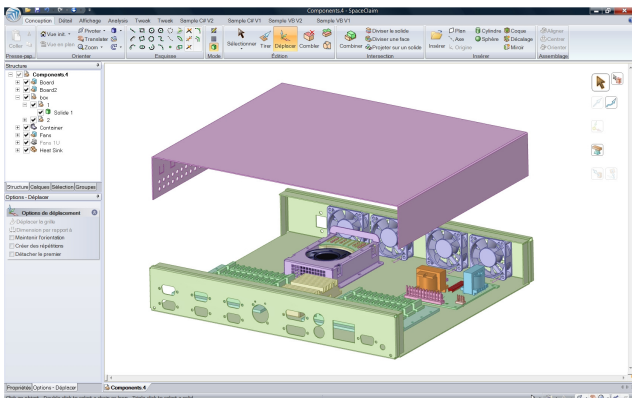
## NEW INNOVATIVE SHEETMETAL CAD-NEUTRAL SOLUTION



# TAKE THE POWER

FEEL FREE TO DESIGN WHAT YOU WANT WITHOUT ANY CONSTRAINT

FEEL FREE TO MODIFY AND MAKE UNFOLDABLE ANY MODEL  
COMING FROM ANY CAD IN ANY FILE'S FORMAT



# DO WHAT THE OTHERS CANNOT DO



**SpaceClaimSMOPlus** allows interoperability between multiple CAD, CAM, analysis and PLM systems.

**SpaceClaimSMOPlus** opens 3D models coming from any CAD system in any file's format. Once the model is opened it becomes a native **SpaceClaimSMOPlus** model.

So, not only **SpaceClaimSMOPlus** allows to design sheetmetal parts and assemblies with ease and without any constraint, but also, and above all, it allows to modify any 3D model (in a matter of seconds) in optimized unfoldable sheetmetal part (or several sheetmetal parts if necessary) meeting all the user's requirements for fabricating without any exception.

This is true even if the imported 3D model is a mechanical design without any sheetmetal attribute, as a simple extruded solid for instance.

The flat pattern is obtained in a matter of seconds and it remains entirely associative with the 3D model. All modifications on 3D model instantaneously appear on flat pattern and inversely.

Flat patterns are exported in DXF format with several layers. A layer with only the complete profiles for cutting, nibbling, punching machines and on other one with bending informations for pressbrakes NC controllers such as bending lines (axes), bending angles...

This unprecedented level of design and modification freedom makes **SpaceClaimSMOPlus** easy for anyone to work with a model, even one that was created by someone else.

Design changes are made by directly selecting the geometry and pulling it to a new location.

The design adapts in real time to the change based on what geometry is selected and the operation performed. The result is fast and flexible design changes that improves the quality of each design iteration and enhances personal productivity.

### Data Exchange :

**SpaceClaimSMOPlus** provides a full suite of data exchange capabilities. Imported 3D data can be modified as if it was originally created in **SpaceClaimSMOPlus**. Imported 2D data can be used to create 3D geometry as well.

**Import :** IGES, STEP, VDA, DWG, DXF™, JT, ACIS®, Parasolid®, and native file formats : CATIA®V5 and V4, NX®, Pro/ENGINEER®, SolidWorks®, and Inventor®

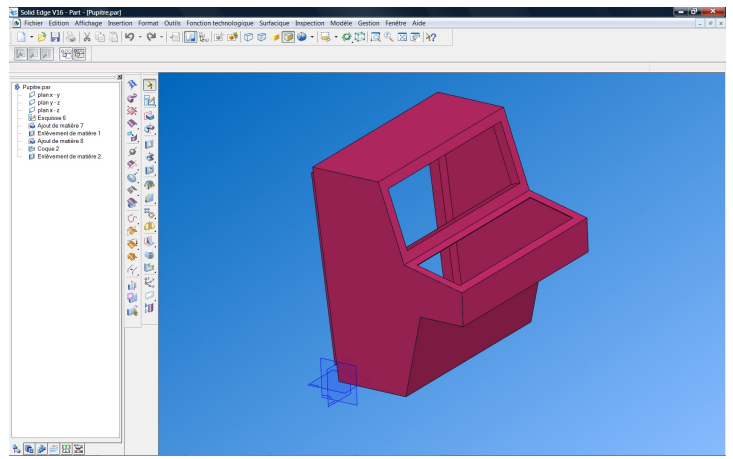
**Export :** IGES, STEP, VDA, DWG, DXF™, JT, ACIS®, Parasolid® and native CATIA®V5

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3D model made in one piece with a classical parametric CAD

The mechanical 3D design here above for instance is made in one piece and it is coming from a classical parametric CAD system.

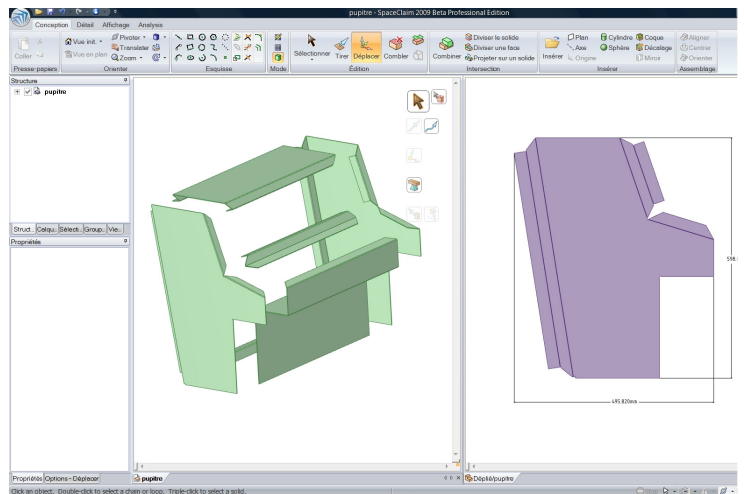
When the native file is read by **SpaceClaimSMOPlus** it becomes automatically a **SpaceClaimSMOPlus** solid and it is entirely available for any modification requested for fabricating.

**SpaceClaimSMOPlus**, thanks to its very sophisticated algorithm, transforms instantaneously the solid in Sheetmetal part.

Of course, it is often not sufficient and the solid has to be worked in sheetmetal methods and treated in several parts, which is done in a matter of seconds with **SpaceClaimSMOPlus**

**SpaceClaimSMOPlus** thanks to powerful sheetmetal tools allows to realize all the necessary modifications to meet all the requirements for an optimized fabricating in a matter of seconds.

So, in this example, the imported solid originally made in one piece with a classical parametric CAD, is very easily cutted and splitted in several unfoldable parts according to the wished cutouts structure for fabricating in a matter of seconds as shown below.



Imported extruded solid model splitted in several unfoldable parts



**DO WHAT THE OTHERS CANNOT DO**

