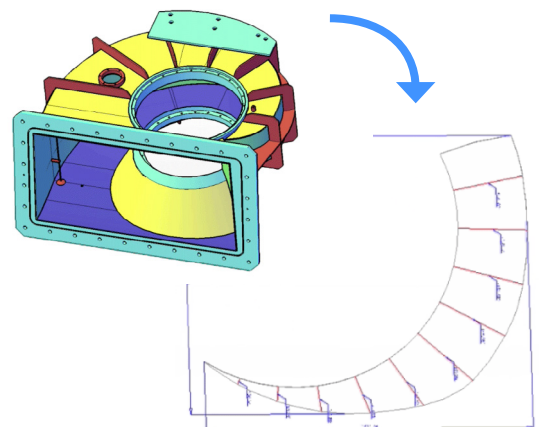




## BricsCAD Sheet Metal. Intelligent sheet metal design

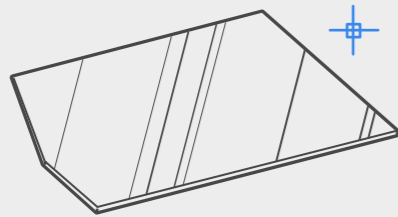
*Go beyond the limits imposed by traditional history-based modeling systems with BricsCAD's interactive sheet metal toolset.*

**BricsCAD Sheet Metal** features one-click sheet metal parts unfolding. The software automatically detects and highlights any colliding bends. Once your design is ready for production, simply convert it to **.dwg** and **.dxf files**. You can add annotations for manufacturing with CAM systems.



# Sheet Metal design done right with BricsCAD

START

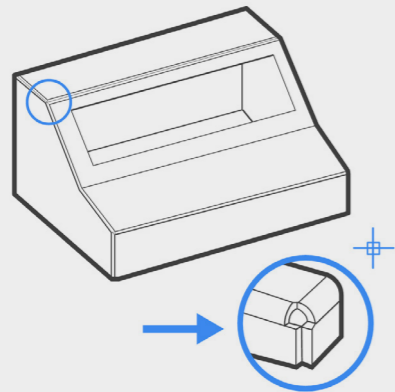


## Create your Sheet Metal parts

Start from 2D profiles, 3D curves, 3D solids, or imported parts and assemblies. Create complex parts with lofted bends or automatically recognize them in imported geometry.

- › Create base flanges from 2D profiles
- › Create lofted bends from 3D curves
- › Make shells from 3D solids
- › Import sheet metal parts from other CAD systems

REWORK

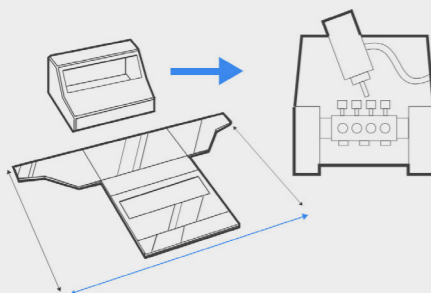


## Rework your design

Rework your sheet metal part without limit.

- › Add flanges by pulling edges
- › Move and rotate flanges
- › Split and connect flanges
- › Add corner and bend reliefs
- › Convert hard edges to bends and junctions
- › Switch between bends and junctions
- › Choose corner reliefs (rectangular, circular or v-shape)
- › Delete redundant flanges
- › Re-thicken and repair sheet metal bodies

FINISH

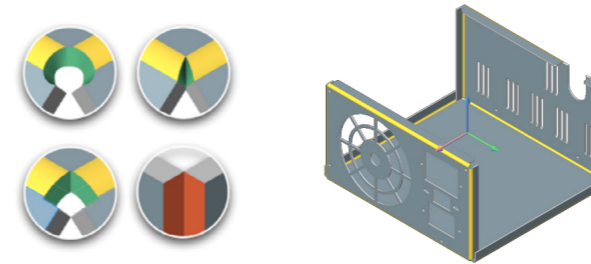


## Finish your sheet metal model

To prepare your design for manufacturing, sheet metal parts can be unfolded automatically and then exported to 2D .dxf or 3D .osm files for further processing with a variety of computer-aided manufacturing (CAM) systems – for nesting, cutting, and bending.

- › Unfold sheet metal bodies
- › Export flat patterns
- › Send 3D models to CAM systems

# Sheet Metal functions



- Bends
- Flanges
- Junctions
- Reliefs
- Lofted Bends

## Junctions and Reliefs

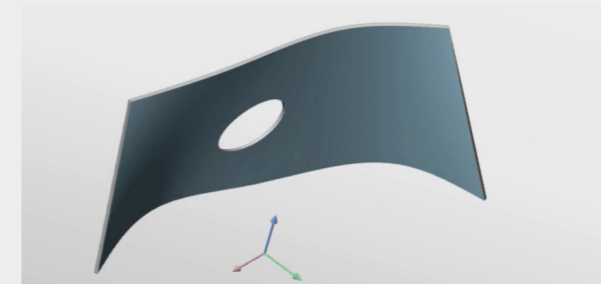
With BricsCAD V16 or later sheet metal designers can use a new type of junction called Full overlap, as well as two new corner reliefs (V-type and circular).

## Feature Coloring

With feature coloring you can easily distinguish one sheet metal feature from another and visually validate your sheet metal parts. Each of the sheet metal features – flanges, bends, junctions and reliefs - has its own assigned color. You can easily re-set colors in the settings menu.

## Lofted Bends

BricsCAD V16 and later versions allows you to create sheet metal parts with lofted surfaces. Supported profiles include lines, arcs, circles, rectangles, polylines and splines. Imported sheet metal parts with lofted bends can be edited and unfolded.



## Batch Processing

Batch processes of sheet metal parts and assemblies can be automated in large numbers using a dedicated LISP API. This automation feature accomplishes tasks, such as producing families of sheet metal parts of different sizes. Example LISP scripts are included with BricsCAD.

## Export CAM Systems

BricsCAD already exports sheet metal parts in .dxf or .osm formats – great for prepping for CNC programming by JETCAM and LVD systems! BricsCAD also generates .dxf files for CAM systems by CYBELEC and DELEM.





### In BricsCAD

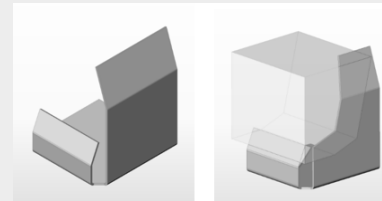
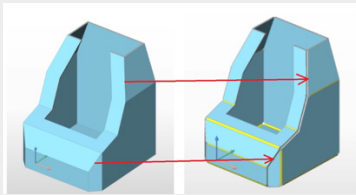
You can make a Sheet Metal part from scratch or starting from a 3D solid.



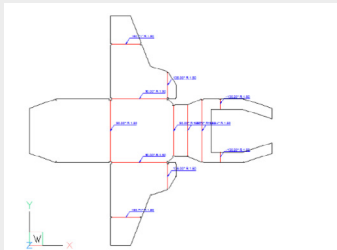
### Other CAD Software

Sheet metal parts need to be started from scratch.

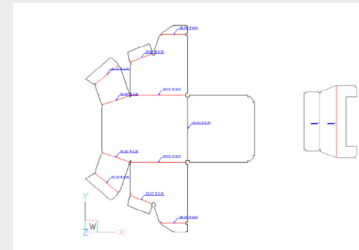
## Creating Sheet Metal Parts



## Preparing for manufacturing: unfolding



“In manufacturing more than 80% of the imported parts are not ready to be unfolded”



In BricsCAD you can rework your sheet metal parts at any time!

With other sheet metal CAD software you need to restart from scratch if you want to rework your model.

### BRISYS

Bricsys® is a global provider of dwg engineering design software brought to market under the BricsCAD® brand. Founded in 2002, Bricsys is a member of the Open Design Alliance. For additional information about Bricsys, visit [www.bricsys.com](http://www.bricsys.com).

DesignSense Software #282/C,  
Jayanagar 5th Block  
10th Main Road  
Bengaluru - 560041  
INDIA  
[contact.in@bricsys.com](mailto:contact.in@bricsys.com)

Bricsys nv  
Bellevue 5/201  
B - 9050 GENT  
Belgium  
[contact.eu@bricsys.com](mailto:contact.eu@bricsys.com)