

## Data Sheet

# SpaceClaim for Sheet Metal Manufacturing

## Minimize Shop Floor Downtime and Quickly Provide Quotes

SpaceClaim gives engineers the flexibility to work with any CAD data to edit and prepare models for high-precision sheet metal manufacturing. No other tool is as easy to use or does a better job editing geometry, cleaning up corrupt or “difficult” CAD data, or delivering the powerful sheet metal functionality manufacturers require.

SpaceClaim is the only solution on the market today that helps sheet metal manufacturers complete important jobs easily while minimizing downtime on the shop floor.

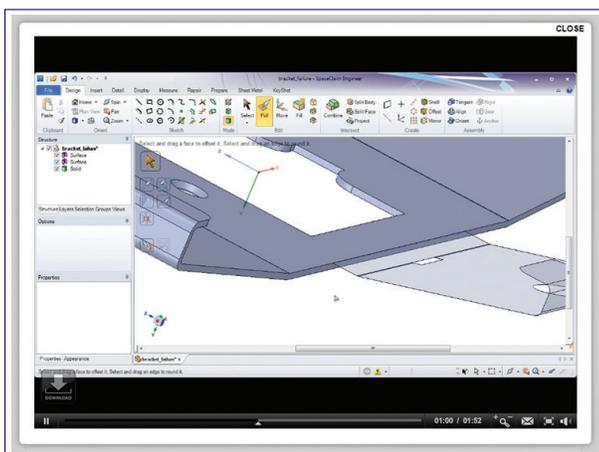
### Use SpaceClaim to:

- Quickly and easily unfold models into sheet metal parts
- Take advantage of a CAD-neutral solution to edit and repair any geometry, no matter the file type
- View both the 3D and unfolded model simultaneously to more quickly understand the effect of edits
- Adjust thickness, bend allowance, and material properties at any time

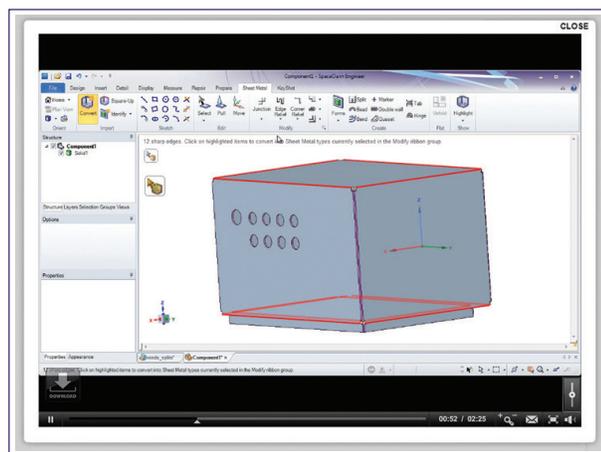
## Challenges in Sheet Metal Manufacturing

Today, manufacturers receive models that are not ready to be machined into sheet metal. Models need to be unfolded, thickness needs to be adjusted, and other preparations like defeaturing need to be done before the model is sent to the machine. Without a tool in-house to get the model ready, manufacturers are forced into sending models back and forth with customers. If the decision is made to prep the model themselves, manufacturer’s options are solutions that are either limited in the types of files that can be edited or are limited in their modeling functionality. In either case, the process is extremely tedious and time-consuming and leads to decreased productivity and excessive shop floor downtime.

Bidding on sheet metal projects requires the manufacturer to unfold the model in order to provide a quote. If the process takes too long, chances increase that the business is lost, which would leave them unable to recover costs associated with the estimating process. Having a tool to quickly unfold models could save sheet metal manufacturers time and help increase business.



Repair thickness



Convert to sheet metal part

## SpaceClaim for High-Precision Sheet Metal Fabrication

SpaceClaim enables users to quickly and easily turn 2D drawings and 3D models into unfolded patterns for sheet metal manufacturing. With powerful functionality that provides a CAD neutral environment, SpaceClaim lets users change, edit, and repair models – all without having to think about the underlying geometry. Users can easily navigate back and forth between sheet metal functionality to solid modeling without breaking the model and having to start over again.

SpaceClaim also enables manufacturers to easily unfold models order to respond to proposals much more quickly and win more bids.

No other solution can help minimize shop floor downtime as much as SpaceClaim. A strong relationship with Trumpf allows us to leverage their expertise to build the best solution for high-precision sheet metal design and fabrication. With real-time, engaging collaboration capabilities, intuitive features, and powerful modeling functionality, SpaceClaim helps users spend less time manually editing models and more time focused on getting projects to the shop floor faster.

## How Can Machinists and Engineers Leverage SpaceClaim?

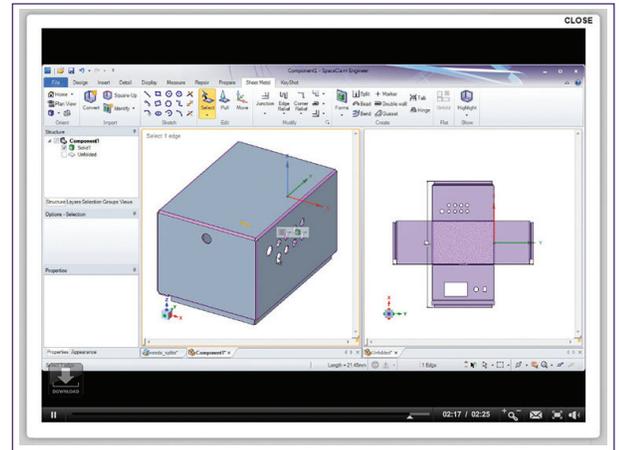
With SpaceClaim, users can:

- Easily edit models to prep for high precision sheet metal manufacturing
- Automatically unfold sheet metal parts and export a DXF/DWG file with layers created automatically
- View both the bend and unfolded model simultaneously in order to see the effects of changes in both
- Quickly create bends tables
- Adjust thickness, bend allowance, and material properties at any time
- Take advantage of a customizable form library to create edge and corner reliefs, hems, hinges, punches, countersinks, knockouts, bridges, extrusions, and other forms

## SpaceClaim: A Better Sheet Metal Manufacturing Solution

When it comes to giving busy machinists and engineers the right tool for unfolding models into unfolded patterns, SpaceClaim is the best solution for preparing any model for high-precision sheet metal manufacturing. With SpaceClaim, manufacturers will save time, increase productivity, minimize shop floor downtime, and gain a better solution for winning new business.

**To learn more about SpaceClaim, please visit [www.spaceclaim.com](http://www.spaceclaim.com) today.**



View 3D model and flattened part simultaneously