

## Data Sheet

# SpaceClaim for Machining/CAM Minimize Downtime on the Shop Floor

SpaceClaim gives engineers and machinists the flexibility to work with any CAD data to edit and prepare models for manufacturing. No other tool is as easy to use or offers more functionality for editing geometry, cleaning up corrupt or “difficult” CAD data, or quickly creating tooling such as jigs and fixtures.

SpaceClaim is the only solution on the market today that helps machinists complete jobs quickly while minimizing downtime on the shop floor.

### Use SpaceClaim to:

- Open any 3D model, no matter the file type
- Edit 3D models and prepare them for manufacturing
- Convert dxf/dwg files into useful 3D data easily

Only SpaceClaim can help improve daily productivity and reduce shop floor downtime.

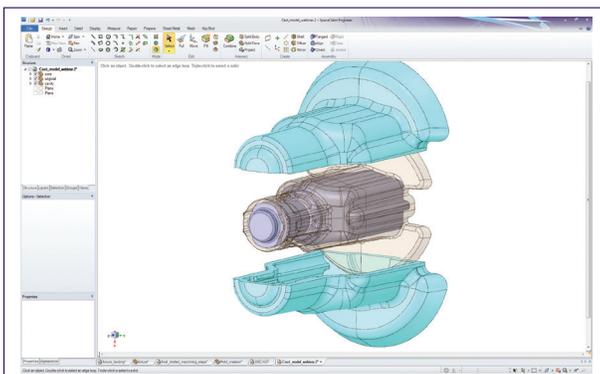
## Challenges in Machining

Today manufacturers receive multiple file formats from their customers, such as proprietary CAD file formats like SolidWorks®; standard CAD formats such as STEP or IGES; and even 2D drawings. While this is accepted as “business as usual,” this scenario does present a challenge.

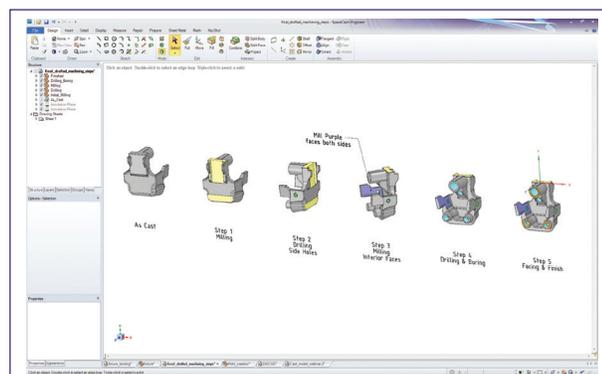
First, the manufacturer may be tempted to buy, expensive CAD software solutions to edit these files (especially proprietary CAD files). Not only is this extremely expensive, but also manufacturers will have to invest significant time training employees. Worse, since the employee won’t use it every day, they will inevitably have to relearn it each time they need to use it. Additionally, buying one software solution only allows the manufacturer to edit those proprietary files. Even standard formats can only be read, not edited. The cost of a license plus the required yearly active subscription fee in order to edit only one file format is quite expensive.

If manufacturers don’t buy new CAD solutions, they could rely on CAM software for their modeling prep; however, CAM functionality tends to be very limited, especially if the machinist has to do more modeling to repair a file. Additionally, when manufacturers receive 2D drawings, CAM software simply can’t convert them to 3D. CAM solutions may be able to automate some 3D modeling steps, but inevitably engineers have to create a new 3D model – far from an ideal process.

All of these challenges add up to lost productivity and shop floor downtime – both of which are damaging to larger business goals such as throughput, customer service, and profitability.



Tooling creation



Manufacturing process sheet

## SpaceClaim is the Only Solution for Machining

Instead of forcing manufacturers to choose software that restricts their business potential, SpaceClaim helps create new business opportunities. SpaceClaim works with any CAD system, providing machinists and engineers intuitive, easy-to-use tools to prepare models for manufacturing. Plus, with powerful functionality such as 2D-to-3D modeling and the ability to integrate with many third-party CAM solutions, SpaceClaim streamlines modeling efforts, saves time, and increases productivity.

SpaceClaim is the only solution that enables users to receive any file – no matter where it was created – and edit it in fraction of the time it takes with any other solution, leading to less downtime on the shop floor.

## How Can Machinists and Engineers Leverage SpaceClaim?

With SpaceClaim, users can:

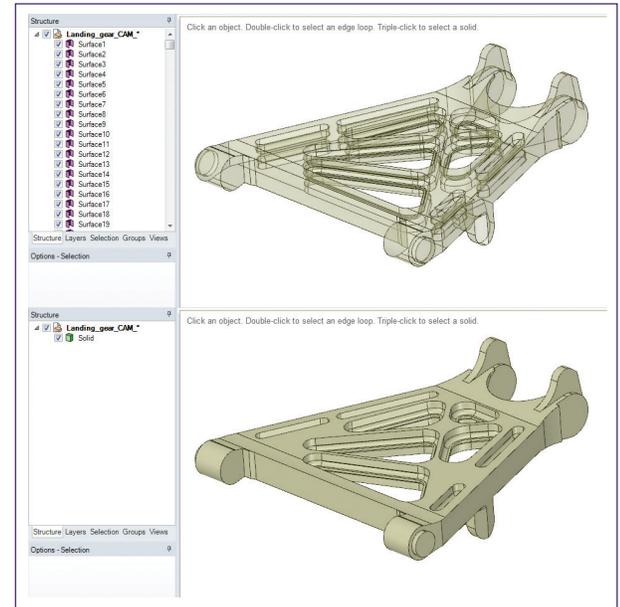
- Create and edit jigs and fixtures
- Remove or adjust rounds and chamfers, hole sizes, face offsets, draft angles, and other geometry
- Quickly grab standard parts from McMaster Carr or our integrated Traceparts or Cadenas libraries
- Easily create hole tables to successfully communicate location and size

## The Future of Machining With SpaceClaim

As manufacturers look to the future and seek new ways to gain a competitive edge, they will look to empower employees with the right tools for the job. In the case of 3D modeling, these solutions must enable them to work with any customer or industry, increasing their competitive strength. Additionally, manufacturer's 3D modeling solution must provide powerful, yet easy-to-use functionality that lets engineers and machinists perform their jobs more effectively.

SpaceClaim provides a better solution for creating, editing, and repairing models regardless of file type. With SpaceClaim, manufacturers and machine shops can accelerate tooling design and preparation of models, thereby increasing their time to finished parts and reducing downtime on the shop floor – all to gain a new, and sustainable, competitive advantage.

**To learn more about SpaceClaim, please visit <http://www.spaceclaim.com/en/Products/Engineer.aspx> today.**



Repair multiple surfaces into a single solid model