

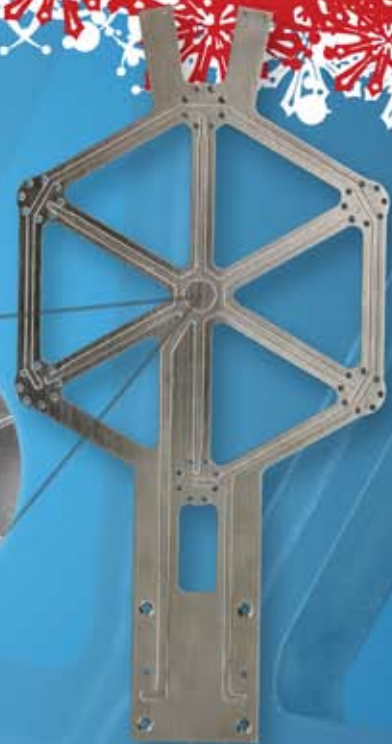


# December

*Part of the Month*

## Electron Beam Welding

This month we are featuring a part that has been electron beam welded. This is a fuse welding process that joins two materials together. In this case there is a channel machined into the top of a .250" thick piece of stainless steel. Once the channel and other features have been machined, a thin (.016" thick) stainless steel cover that has been laser cut to fit on top of the channel is then electron beam welded into place (see inset picture). The covered channel is now vacuum tight, and ready for our customer's application.



**Quiz:**  
Which two states in the US have towns called Christmas?

**Problem:**  
Calculate the number of presents received in the song "12 Days of Christmas".

\* Please be sure to check our website for answers to all previous months Problems and Quizzes! Go to [www.metalwork.com](http://www.metalwork.com) and click on Problem of the Month link.

## Complete Assembly, Sheet Metal, Machined and Welded Components.

- > ISO 9001 certified Quality Management System.
- > Certified Welding to MIL-STD-1595a for process DTAW Group 1b, 1ia.
- > 100% in-process inspection.
- > Certified inspection reports.

## All CAD Formats:

- Solidworks (sldprt, sldasm), AutoCAD (dwg, dxf), Inventor, Pro/E, CATIA 4/5, Unigraphics, Parasolid, ACIS SAT, iges, step, ckd, prt, stl

**Quote:**  
"The Management and Staff at CompuCraft Fabricators wish to extend to you warm thoughts and best wishes for a wonderful holiday season and a very happy new year."

*~ Management & Staff ~*

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