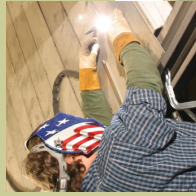


## Focus on Quality

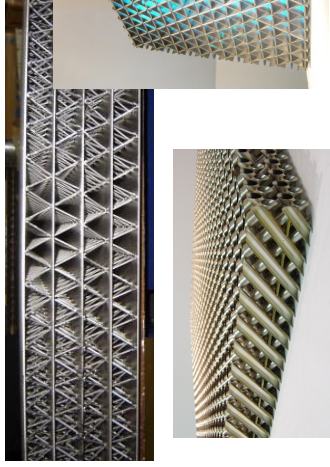
Quality and consistency are our first priority, and our quality control staff includes a certified welding inspector. Our facility is also equipped with a three-axis Sheffield coordinate measurement machine (CMM) to ensure that all products conform to CMI's highest standards.

CMI makes use of a network of pre-qualified fabricators. This allows us to quickly create prototypes utilizing the latest manufacturing methods while still maintaining prudent capital investment policies.



## About Cellular Materials

Founded in Charlottesville, Va., in 2001, CMI develops proprietary structural materials based on periodic cellular material (PCM) that are cost-effective, scalable and efficient. CMI's products are designed to outperform today's conventional structures, such as honeycomb, due to a much higher strength to weight ratio, the ability to be fabricated in curved geometries, its multi-purpose functionality such as blast and ballistic resistance and heat management, and the availability of open space, which can accommodate other functional components.



## Cellular Materials International, Inc.

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*Cellular Materials  
International, Inc.*

## CMI's Five Springs Manufacturing Facility



[www.cellularmaterials.com](http://www.cellularmaterials.com)

## Well-Equipped, State-of-the-Art Manufacturing

CMI opened its new Five Springs manufacturing



operation in April 2007. The facility is equipped to produce structural materials based on the company's unique periodic cellular material (PCM) concepts. It is engaged in a range of military and commercial related projects that require innovative, proprietary structural technologies.

Five Springs has two welding robots, the largest of which is a state-of-the-art MotoMan Welding Robot that can perform both GTAW & GMAW welding over its 20-foot reach with an accuracy of 0.005 inches.

CMI's welding staff includes a certified welding instructor who is equipped to perform high quality manual GMAW & GTAW welds with or without PEC.

## Metal Shop For All Shapes, Sizes and Materials

Five Springs has a well equipped sheet metal shop with a 12 foot , 1.75 ton hydraulic press brake and a 10 foot squaring shear. The facility has already produced single parts as large as 14 feet by 7 feet and over 2 feet high, and as small as 6 inch square and less than 1/2 inch thick.



State-of-the-Art  
MotoMan Robot

We predominately manufacture with stainless steel, aluminum and ceramics, but have experience producing products from magnesium, copper and carbon steel. We are also equipped with a micro processor controlled iterative metering and injection station which is used to bond ceramics and add impact resistant polymers to our cellular structures.

## Welding Capabilities

**Fixed Robotic:** GTAW with and without PEC,

GMAW, and a 20 foot arc at .005 inch

**Portable Linear Robot:** GTAW with and without PEC, GMAW on a 15 foot track

**Manual:** GTAW and GMAW

## Sheet Metal Equipment

**Hydraulic Shear:** .005" to 1/4" Mild Steel with NC back gauge

**Hydraulic Brake:** .060 to 3/8 SS

## Additional Capabilities

**Single and two part Polymer injection system:** 10 gallons per component capacity, with pre-heat and 5.5 gal/min flow

**Milling:** 2 ft by 4 ft

**Turning:** 6 in by 36 in



Producing single parts as large as 14 by 7 feet and over 2 feet high or as small as 6 inch square and less than 1/2 inch thick

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