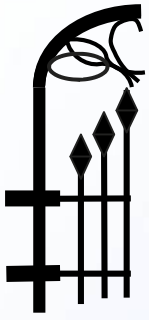
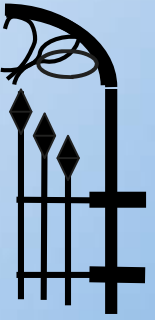


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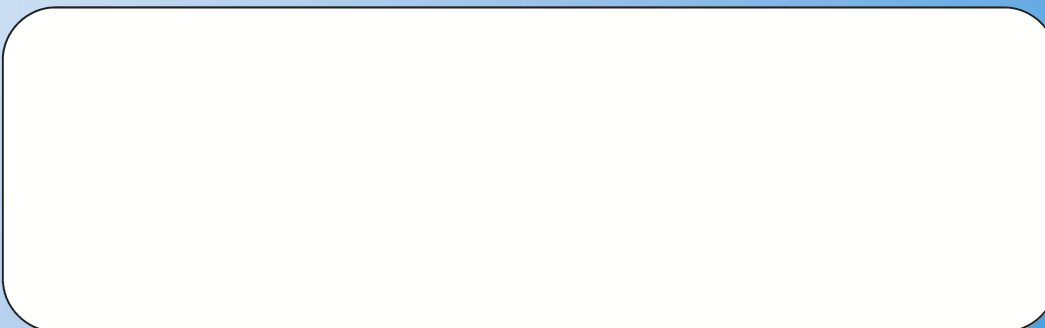
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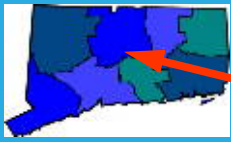
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ADDITIVE MANUFACTURING OF NE

Middletown, CT

Additive Manufacturing of New England opened its doors back in January of 2015 as a division of the Mohawk Manufacturing Co. The two companies operate under the same roof in a 30,000 sq. ft. manufacturing facility located at 1270 Newfield Street, Middletown, CT 06457.

Mohawk was founded in 1921 and has been operated, run, and owned as a family company. Today, the company is owned by William W. Ferguson and Debra Ferguson. When Mohawk first opened its doors, it was a manufacturer of wire forms and custom metal stampings. As time passed the needs of Mohawk’s customers evolved and grew. This meant adding new capabilities and services, such as in the early 1970s, the welding of silver contacts to metal stampings along with the

To fulfill and uphold the standards, AMNE holds ISO: 9001:2008 Certification and AS9100:2009 Certifications. As Mohawk Manufacturing is the parent company, its name shows on the documentation with **Additive Manufacturing of New England** as part of the company’s mission statement.

Additive Manufacturing of New England offers industry leadership, exceptional quality parts and continuous customer support and guidance.



3-D Printing offered by Addictive Manufacturing of New England can produce prototype parts and short run production at great time and money savings.

As a leader in the metal manufacturing industry along with a past of being an early innovator in the industry, Mohawk’s owners saw the next era of metal manufacturing coming to light. To remain a leader in the industry, they decided to take a bold step and create a new division called **Additive Manufacturing of New England (AMNE)**. With Additive’s state of the art, industry leading metal 3D printing capabilities, the companies are positioned again to thrive in the metal manufacturing industry in the U.S.A.

Servicing customers in Aerospace, Medical, and Automotive industries, **AMNE** is capable of creating replacement parts and unique one of a kind specialty parts. **AMNE** has the ability to: accelerate prototype time while reducing time to market; make more dense and durable parts using less material and offer accuracy and consistency from part to part.

Continued on page 7



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Recently Mohawk Manufacturing Co. partnered with **Mason Global Materials** of Killingworth, CT to support and service **Additive Manufacturing of New England**. With the assistance of Richard Mason, Ferguson plans to expand the presence of AMNE in the metals industry.

What Is the Additive Process?

Before Additive, components had to be made as multi-part assemblies. Now, a design is rendered as a single unit. This offers the ability to cut out assembly time and the need for replacement parts. What's more, parts can be made that could not be made with any other manufacturing method. This is due to feature location existing in places that no machine would be able to reach or accomplish. Parts once thought to be impossible can now be made in a matter of hours.

The process starts with a computer-generated, 3-dimensional part design. The design file is downloaded to the Additive machine's computer; the file is electronically sliced into thin layers. The machine spreads an evenly thin layer of powdered metal onto an area called the build plate. A computer-controlled laser sinters this thin layer of

metal, following a path that corresponds to the sliced data of the original 3D design. This layering process is repeated over and over until the final part is rendered. Most current production contains many different complex parts, all being built at the same time. **AMNE** has the ability to run many



Sampling of Stainless Steel parts made at AMNE.



They have the ability to run many different types of metals including: Stainless Steel 17-4PH, Cobalt Chromium, Inconel 625, Inconel 718, 316L Stainless Steel, Aluminum AlSi12, and

different types of metals.

After the build is complete, the parts are unloaded and any customer-specific post-production operations are conducted (such as bead blasting, heat treating, polishing, etc.). Depending on the size, several different parts can be made on a single build plate (current build area is roughly 9.8in x 9.8in x 11.8in.) and the parts are ready for post-build processing. Parts or builds requiring heat treating or stress relieving are placed into the company's heat treat furnaces. The parts are then removed from the build plate using in-house Wire/EDM machines to provide an accurate and smooth surface for tight tolerance applications. Post-processing may include: powder coating, plating, grinding and burning, chemical polishing services, tumbling,

Continued on page 9



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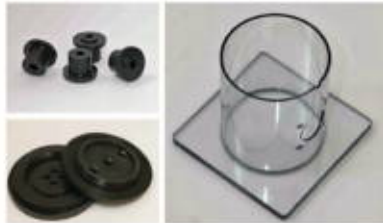
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Benefits of Metal 3D Printing

- Conformal Cooling applied in injection molding
- Reduced design/engineering time for quick revisions
- Create complex jigs and fixtures
- Build multiple parts of different sizes at the same time
- Prototype castings help reduce costs and improve speed
- Revolutionary way to build parts once thought impossible
- Exceptional accuracy and consistency from part to part
- No need for tooling, or tooling lead times
- More dense and durable parts using less material
- Build multiple components as a single unit in less time
- Accelerate prototype time and time to market
- Deliver completed end use products right off the machine

The Advantage for New England Companies

Ferguson said, “With AMNE’s dependability and on-time performance, customers will never have to worry about not making deadlines or missing promised delivery dates. AMNE provides rapid prototyping, low to mid- volume runs allowing the company to meet almost

every customer’s desires and needs. Customers and their parts are our top priority. We’re here to deliver that competitive edge customers have been looking for with all the added benefits of 3D printing at only an arms-length away.



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PRESS RELEASE

NHBB's Parent Company Acquires C&A Tool Engineering, Inc.

Peterborough, New Hampshire – MinebeaMitsumi Inc. has closed on the previously announced acquisition of C&A Tool Engineering, Inc. (C&A), a leading advanced manufacturing company offering high precision, technically complex parts across the medical, aerospace & defense, fuel system, and industrial end markets.

C&A provides customized solutions from design and planning to fabrication and final inspection to top OEM's in their diverse end markets. In addition to custom components for the aerospace, fuel system, and industrial markets, C&A also manufactures surgical implants and instruments for spine, knee, and hip applications.

Their early adoption of additive manufacturing is a competitive advantage as their backlog in this area continues to grow. C&A is one of the first companies to have their direct metal laser sintering (DMLS) operational process permitted to support customer approved Food and Drug Administration (FDA) products.

Its manufacturing operations are certified to AS 9100, ISO 9001, ISO/TS 16949, and ISO 13485. The company also holds a Nadcap accreditation for Nonconventional Machining (EDM).

C&A Tool Engineering, Inc. is joining the NHBB/myonic Business Unit, which includes NHBB, myonic GmbH, and CEROBEAR GmbH. This Business Unit of the MinebeaMitsumi Group will now operate a total of eight manufacturing facilities: five in the United States, two in Germany, and one in Czech Republic.

The move increases the BU's footprint in the aerospace and medical markets and expands its offering of machined components within its competencies of manufacturing to tight tolerances and extreme complexity.

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NHBB is a subsidiary of MinebeaMitsumi Inc., a comprehensive precision components manufacturer with 59 manufacturing facilities in 16 countries with approximately 91,000 employees worldwide. MinebeaMitsumi is headquartered in Tokyo, Japan and is traded on the Tokyo Stock Exchange (TYO:6479).



C&A Tool Engineering, Inc. Headquarters



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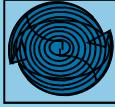
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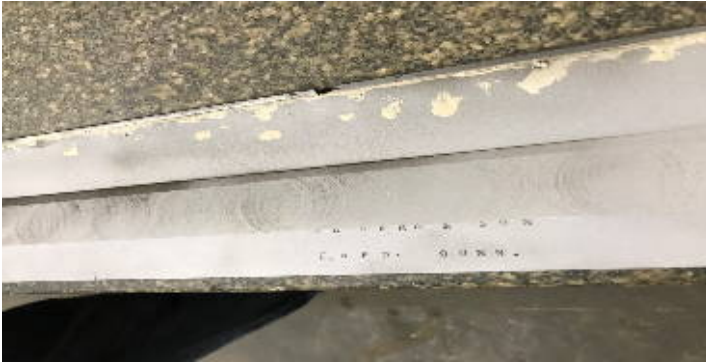
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ENIGMAS

A long time friend, Leon Patterson from Pennsylvania, sends us QUOTES on a regular bases, and recently he sent these Enigmas. Some really make us take a look at life in America. We have both Republican and Democrat beliefs, but the only important position.... Is we are all HUMANS FIRST. WE DON'T NEED TO GIVE UP, WE NEED TO GIVE IN AND WORK TOGETHER!

- ☺ Isn't it weird that in America, our flag and our culture offend so many people, but our benefits don't?
- ☺ How can the federal government ask U.S. citizens to pay back student loans - when illegal aliens are receiving a free education?
- ☺ Only in America are legal citizens labeled "racists" and "Nazis," but illegal aliens are called "Dreamers."
- ☺ Liberals say, "If confiscating all guns saves just one life, it's worth it." Well, then, if deporting all illegals saves just one life, wouldn't that be worth it?
- ☺ I can't quite figure out how you can proudly wave the flag of another country, - but consider it punishment to be sent back there. [I say, STAY THERE!]
- ☺ The Constitution: It doesn't need to be rewritten, - it needs to be reread.
- ☺ William F. Buckley said: "Liberals claim to want to give a hearing to other points of view, and are then shocked and offended when they discover there are other points of view."
- ☺ Joseph Sobran said:
'Need' now means wanting someone else's money.
'Greed' means wanting to keep your own.
'Compassion' is when a politician arranges the transfer."
- ☺ Florida has had 119 hurricanes since 1850, - but some people still insist the last one was due to climate change.

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- Type Face will be 7.5 point Arial Narrow.
- Submissions in unformatted Word, email, or plain text is requested.** Submissions must be in our hands no later than the 28th of each month. *We do not take ads over the phone.*
- The number at the end of the ad indicates the month the ad needs to be renewed by, or it will be deleted. That is to keep the listings up to date.
- All ads must run for a minimum of 3 months.
- Cost for non-advertisers \$2.50/line/month. **ADVERTISERS:** Read more below. If not sure of cost, submit by e-mail and we will respond with the price and sample. Photos, graphics or logos may be used in any ad space.
- Request for a new category is subject to our approval.
- WE RESERVE THE RIGHT TO REJECT ANY AD. ADS MUST BE RELATED TO THE METAL OR PLASTIC WORKING INDUSTRIES WE SERVE. NO PERSONAL ADS ACCEPTED EXCEPT JOB POSITIONS WANTED.**

PRICING

2 line ad \$15. for 3 mo. run.	10 line ad \$75. for 3 mo. run.
3 line ad \$23. for 3 mo. run.	11 line ad \$82. for 3 mo. run.
4 line ad \$30. for 3 mo. run.	12 line ad \$90. for 3 mo. run.
5 line ad \$38. for 3 mo. run.	13 line ad \$97. for 3 mo. run.
6 line ad \$45. for 3 mo. run.	14 line ad \$105. for 3 mo. run.
7 line ad \$52. for 3 mo. run.	15 line ad \$112. for 3 mo. run.
8 line ad \$60. for 3 mo. run.	16 line ad \$120. for 3 mo. run.
9 line ad \$68. for 3 mo. run.	17 line ad \$125. for 3 mo. run.

Photos, graphics or logos may be used in any ad space.

Mail payment to The Gateway, 336 Governors Rd. Milton, NH 03851
We do not invoice for classifieds, nor do we take credit cards.

ATTENTION DISPLAY ADVERTISERS (bus. cards to full page)

All active display advertisers receive free classified ads limited to 6 lines of type per month. That can be a single 6 line ad, or any combination up to 6 lines. To keep ads viable we will remove them every 3 months, unless requested to rerun them with a simple email subject 'RERUN' to thebuyersgateway@gmail.com with your company name. (the number at the bottom right of your ad will indicate the month your ad must be renewed)

To estimate the space your ad will use, one single line of type offers roughly spaces, per line. Bold type is larger and uses more space. Again, if you send us your proposed wording, we'll set it and return it to you with pricing for your edit.

thebuyersgateway@gmail.com



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Uncle Willy's Funny Bone Gateway Humor

Two friends, Carol and Patty, were walking down the street.

Carol noticed a compact on the sidewalk and leaned down to pick it up. She opened it, looked in the mirror and said, "Hmmm, this person looks familiar."

Patty said, "Let me look!" So Carol handed her the compact.

Patty looked in the mirror and said, "You dummy, it's me!"



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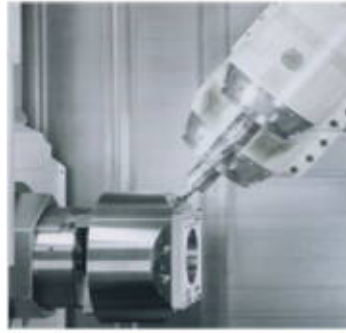
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