

PURCHASING'S GATEWAY TO NEW SOURCES

No. 270

FREE SUBSCRIPTION

# THE Gateway MAGAZINE

KEEPING PURCHASING DECISION MAKERS INFORMED

25,000+ readers read THE GATEWAY in over 7,500 companies

December 2021



**TDF**  
METAL FINISHING CO. INC.

SEE PAGE 3



**2021 Company Spotlight**  
Year in Review

SEE PAGE 15

BE SURE TO SHARE YOUR STORIES: [WWW.THEGATEWAYMAG.COM](http://WWW.THEGATEWAYMAG.COM)

COVER PHOTO : TDF METAL FINISHING CO. | Danvers, MA

# CONTENTS

DECEMBER 2021 | ISSUE 270

## COMPANY SHOWCASE

**03** TDF Metal Finishing

## INDUSTRY INSIGHTS

**15** Year End Spotlights 2021

## INDUSTRY NEWS

**23** Regional Press

**27** Upcoming Events

Where has the time gone? 2021 just started a few weeks ago. And now, 2022 is knocking on the door. In the words of Charlie Brown, “good grief.” 2021 was a curious one, to put it mildly. As we attempt to dig out of the rubble of 2020, the manufacturing industry continues to be incredibly busy, but, with that, there appears to be no shortage of challenge. One of the biggest challenges, as we sit it (and something we keep constantly talking about) is the supply chain. You don’t need us to tell you that it’s in a very bizarre, and often frustrating spot. We’re hoping 2022 finds some solution for that issue, though it may take a few years before we’re “business as usual” from that vantage point.

With that said, let’s continue to focus on things that are more in our control. Focus on optimizing our operations. Making sure our workforce is prepared and armed with the tools they need to get the job done efficiently and effectively for our customers. Working together as “a team” here in the northeast to ensure that our industry remains strong and that there’s a communal network of support to help each other achieve success. One thing we’ve learned over the years is there’s no shortage of great people working amongst us that are willing to lend a helping hand and push our jobs across the finish line. Don’t feel like you need to add costly expenditures to get your own line up to speed to complete a piece of a job when you can outsource that particular piece to your neighboring shop. Sure, we’re competitors to a degree; but we’re also teammates in the grander scheme of things. And hey, if you’re in need of spreading the word with regard to the services and help you can offer/provide, reach out. Let’s tell your story!

Anyhow, happy holidays to you and yours. We’ll catch you in the New Year!

Cheers!



THE  
**Gateway**  
MAGAZINE

## PUBLICATION MANAGER

Matthias Roberge

## EDITORIAL DIRECTOR

Chris Hislop

## ART DIRECTOR

Adam Kaufmann

## SOCIAL MEDIA

Molly Hart

## ADVERTISING INQUIRIES

(877) 463-4020

[info@thegatewaymag.com](mailto:info@thegatewaymag.com)

Hours: 9am-5pm Mon-Fri

## MAILING ADDRESS

PO Box 70

Portsmouth, NH

03802

## FOR FREE SUBSCRIPTIONS

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

## CHANGE OF ADDRESS:

In ordering a change of address, give both the old and new addresses. Allow two months for change to become effective. The publisher will attempt to handle unsolicited articles with care, but magazine assumes no responsibility for them.

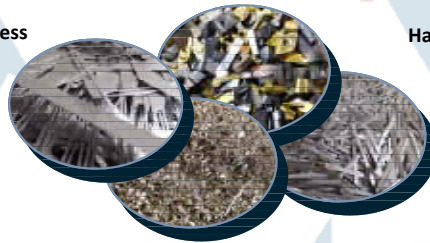
- Tungsten Carbide
- EDM Wire
- Inconel
- Titanium
- Ferrous
- Nonferrous

*Specializing in Recycling Industrial Scrap*

# HARDING METALS, INC

Creating recycling solutions for any type of business

- Utilizing our easy to deal with staff
- With our clean and uniform equipment



Handling all types of metals, in any form

—From mild steel to high-temp aerospace alloys

—Chips, punchings, turnings, borings, skeletons, inserts, bits. **You produce it; we handle it.**

**Call or email us about Recycling and Reconditioning your Cutting Fluids**

**1-800-370-JUNK (5865)**

42 Harding Dr. Northwood, NH 03261

**info@hardingmetals.com**

**www.hardingmetals.com**

*Big enough to get things done, small enough to do them efficiently.*

## SHARPLES

# LASERCUTTING

- Minimal Heat Affected Zone
- Clean Cut, Burr-Free Accurate Parts
- Superior Nesting
- Quick Turnarounds
- For All Types of Metal
- Small or Large Runs



**CREATIVE.  
INTRICATE.  
EXCEPTIONAL.**

CALL 508-695-5656 OR VISIT SHARPLESCUT.COM



## TRACEY

GEAR & PRECISION SHAFT

ISO 9001 CERTIFIED

Custom Gears  
Thread Grinding  
& Precision Shafts

*Serving New England  
since 1945*

740 York Avenue  
Tel: 800-774-GEAR

Pawtucket, RI 02861  
www.traceygear.com

sales@traceygear.com

## TDF METAL FINISHING: 40+ YEARS OF METAL FINISHING



### The Background

We cannot talk about TDF Metal Finishing in Danvers, Massachusetts without first looking back at the decisions and hard work that made today's TDF possible. In the historic Lydia Pinkham Building in Lynn, MA, another entrepreneur like Lydia herself founded a modern manufacturing company almost exactly 100 years later.

Thomas D. Ferrairo started TDF Metal Finishing in 1984 on this historic site and much like Lydia Pinkham and her "tonic," a successful business based on good chemistry was founded. With years of experience in metal finishing, working for several shops, Tom named his business using his initials and, literally, hanging his name over the door, began to build his reputation as a businessman and a tremendous metal finishing partner for his customers.

Since that beginning and following a move to the Danvers, MA Industrial Park in 2006, TDF has grown, evolved, and continued to flourish as metal finisher, meeting the demands and needs of the diverse customer base we serve.

Now, after an almost 40 year run as one of the most respected and unique metal finishing shops in New England, Tom Sr sold TDF to the Phenna Group in the UK and did what every business and family man strives to do, he provided his entire family with a great future. It was Tom's business that took care of his family while he ran it, and it is that legacy of hard work and good fortune that will allow Tom to take great care of his family into the future.

So fast forward to 2021 and the high speed, high-quality, high-tech manufacturing world that we are in now and see where TDF has moved to and where we are headed.

## TDF SERVICES

Today TDF is still an evolving company with the backing of a worldwide, world class family of manufacturing companies as part of the Phenna Group.

Still a standalone company, TDF is moving quickly into the modern world of today's business, evolving into a company capable of meeting the needs of machine shops, fabricators and OEMs throughout the region and serving a multitude of industries.

From medical to aerospace, high tech electronics to some heavy industrial products, TDF is a capable and diverse finishing house, able to meet the needs of many advanced manufacturers.

TDF offers a very wide array of finishes and can be a one stop finisher for many machine shops and manufacturers as well as supply other customers with specialty, unique or a "cut above" quality.

Anodizing and Hard Coat Anodizing with excellent quality, price, and delivery available are TDF's largest specialty finishes. Whether it's the difficult to process parts, parts that have intricate masking or high-volume jobs that need fast turnaround, TDF has the capability and flexibility to say "yes" in some of the most challenging situations

Electroless Nickel, chromating / passivating of aluminum, copper, tin, silver, gold, and zinc plating are more of the finishes TDF offers with the quality and throughput to help serve our customers.

And as Henry Ford said about painting his Model T's, the customer can have "any color as long as it's black". Need Black Oxide, Black Passivate, Black Endurion, Black Ebonol or even Black Zinc? TDF has a department dedicated to blackening processes for the gun industry, heavy industrial and even military and aerospace applications.

For medical and other applications TDF offers both electropolishing and passivation services. Covering all types of passivation and with a large electropolish tank, TDF serves many industries requiring stainless steel alloys with precision finishing. With a separate

clean room production area, the ability to bag and tag parts in medical industry approved packaging while producing high quality work, we can meet even the most stringent specifications.

Peripheral services like bagging and tagging for medical products, bead or shot blasting for precision parts, drop shipping, inventory of customer supplied material or adding any needed packaging services are also available at TDF. Development of special fixturing or masking tools is a specialty and we have had some great successes in this area. TDF tries to find a way to say yes and collaborate with customers to find a path to shared success.

With all these processes and services available and willingness to work with customers, TDF is a solution for all your finishing needs.





## QUALITY

Currently ISO 9001 Certified, TDF has approvals from many OEM's, in the aerospace, military and medical industries. NADCAP Accreditation for aircraft and other aerospace work is well underway and we expect to be scheduling our NADCAP Audit by early spring 2022.

Our Quality Department is staffed by two younger employees, each with over 10 years of experience at TDF. Our QC team is beginning a training grant from the State of Mass for continued education and training. This year long apprentice like program involves both internal and external training delivered by State of Mass approved companies.

Continuing to look toward the future TDF is also participating in a CO-OP program, partnering with Essex North Shore Agricultural and Technical High School also in Danvers. Two CO-OP students from the technical school's Natural and Environmental Sciences shop are training in chemical analysis and wastewater treatment. TDF has an in-house water treatment plant that requires a state licensed operator, and the next generation of employees is already here and learning.

## EMPLOYEES

In order to better serve our customers, it is important to us that we take care of our employees! They are the lifeblood of TDF and continuing in the tradition of

founder Tom Ferrairo we have revamped, improved, and applied technology to everything we could to make things better and easier for our workers and friends.

Starting with an exciting new health insurance plan that offers low co-pays and deductibles to the newly added long term and life insurance for the employee and their dependents we are doing all that we can. With vision and dental, a matching 401k plan, the benefits and choices for employees are vast. Add in an app on their phone that ties into the facial recognition time clock and accesses all their HR info and as a method to communicate with management 24/7, good communication and information is at their fingertips.

Anodizing, plating, and metal finishing in general, is labor intensive work and the days are long. For our workers, knowing that they and their families are well taken care of with the company generously supporting them makes those long days walking, carrying, and standing over hot process tanks a little easier. We value our employees tremendously. With an average time of employment of over 12 years the care and concern for employees that Tom Ferrairo started has continued, expanded, and been transitioned to the latest technology. And yes, when our English as a Second Language employees needed help, we brought in bilingual speakers so nothing would be lost in translation.



MANAGEMENT TEAM

Whenever a family business is sold typically the family members who worked and ran the company move on. Things do change and with the departure of Tom and the prior management team, TDF needed new leadership.



As 100 years of metal finishing experience walked out the door in Tom and his team, 100 years of experience walked in.

The Phenna Group looked around New England for an experienced metal finisher with management, P&L responsibility, leadership, and technical experience. That is when Marko Duffy's name came up.

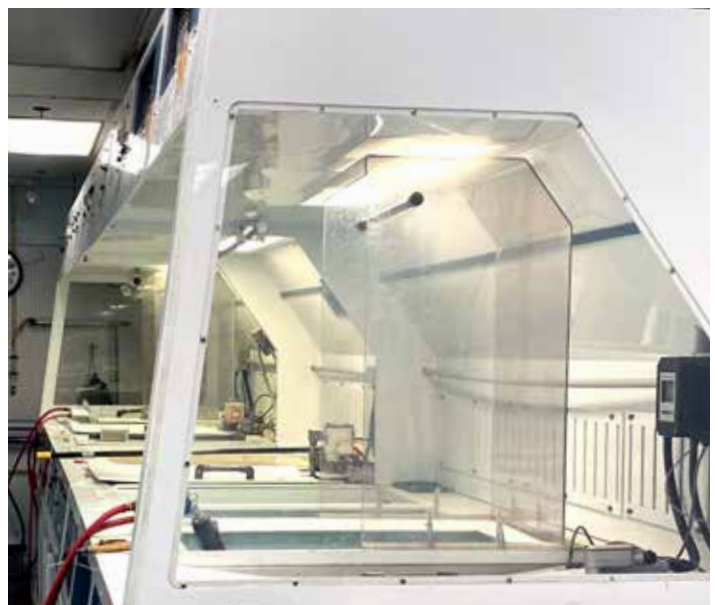
Marko Duffy has been in metal finishing in New England for over 40 years. Working at 3 other plating shops and then spending 15 years representing a worldwide metal finishing chemical supplier as the owner of Marathon Manufacturing Solutions, Marko checked all those boxes and more. Well, known throughout the industry Marko has a vast amount of technical experience and has problem solved from both a supplier and a finisher viewpoint.

Having been part of an executive leadership program

at Harvard School of Business sponsored by the City of Lawrence, MA, Marko was selected to join a group of 30 community, business and government leaders and went through some rigorous training, learning, and collaborating with this exciting group at Harvard. Much of the innovation and leadership happening at TDF right now stems from both Marko's experience as a finisher, supplier, manager and owner and the incredible experience and connections made through the program with Harvard School of Business.

But it takes a team as every business owner and manufacturer knows, and TDF is very lucky to have Tom Moore, another 40+ year veteran of metal finishing. Spending his career at Hopwood Globe in Malden, eventually owning a portion, Tom joined TDF after Hopwood was cast adrift when the original owners sold the building out from under them.

A 135-year-old company with deep roots and experience, Hopwood was sadly closed in the spring of 2021. It was then that Marko and Tom were able to reunite, they had worked at Hopwood together as kids in the 1980's, both getting their start there. Tom is the Operations Manager and has brought all his experience and abilities to TDF, overseeing the day-to-day production. Tom has proven himself to the TDF team and to the customers as a capable, caring guy with everyone's best interests in mind.



Rounding out the staff is Phil and Cynthia, both with years in metal finishing, are in the shipping and customer service departments. On the production floor a Team Leader structure has been developed with Louis and Jose overseeing the plating area and Andres overseeing anodizing and chem film processing on aluminum. The 3 team leaders on the floor are all long time TDF employees, hired and developed by Tom Ferrairo and continuing to grow and thrive at TDF. Their combined experience amounts to decades of hands-on metal finishing experience. A talented and knowledge chemical and wastewater team lead by Slav and Shawn keep the chemistry correct, the water clean and the equipment up to snuff.

Behind the management, customer service and supervisors are a large group of dedicated and committed employees, all with many years of experience at TDF. Employee retention at TDF is excellent and many of the operators and people who handle the parts we process have been here for a long time having seen and done it all. TDF truly feels we have the best, most experienced, and most capable metal finishers in the business.

#### WHAT'S NEXT FOR TDF?

There is a stake in the ground to implement NADCAP by next spring. A new shop software system is being readied right now that will not only revolutionize our job process travelers but gives customers access to an order report detailing here their orders are in the process flow and what he expected ship date is. There is a new web site in the works that will allow us to share, blog and help our customers. And.... What we do with the several thousand square feet of additional space that Tom Ferrairo had the foresight to secure for TDF remains to be seen?

So, in summary.... Honor the past, treat the present with care and keep an eye to the future.

And use technology, networks, and experience wherever you can.

And treat your employees, customers and suppliers in a way that shows them you're thinking of them.

And, you should probably know when you've said enough!



**TDF Metal Finishing, Inc.**  
7-9 Electronics Ave  
Danvers, MA 01923 USA  
(978) 223-4292

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

**TDF Metal Finishing, Inc.**  
7 & 9 Electronics Ave Danvers, MA 01923

**PROCESS**

- ▶ Anodizing, Black, Clear, Red, Blue, Gold, Green
- ▶ Anodize, Hard
- ▶ Black Ebonal
- ▶ Black Oxide
- ▶ Black Passivate
- ▶ Brass
- ▶ Bright & Matte Tin
- ▶ Bright Dip
- ▶ Bright Nickel
- ▶ Cadmium
- ▶ Caustic Etching
- ▶ Chemical Film
- ▶ Copper
- ▶ Electroless Nickel
- ▶ Electropolish
- ▶ Gold
- ▶ Passivate
- ▶ Phosphate
- ▶ Pickling
- ▶ Rhodium
- ▶ Silver
- ▶ Zinc

**SERVICES**

- Clean Room Finishing
- Sandblasting
- Baking—High Temperature
- Salt Spray Corrosion Testing
- X-ray Florescence Thickness
- Vapor Blasting
- Buffing
- ROHS COMPLIANT CHEMICAL FILM
- ROHS COMPLIANT ZINC
- Environmentally Responsible
- High Tech Waste Management
- Quick Turnaround
- Sample Pieces

ISO 9001:2008, 8251QM8001, 11 May 2013

Tel: 978-223-4292 Fax: 978-223-4297  
Web: www.tdfmetalfinishing.com Email: info@tdfmetalfinishing.com

**JCB**  
Performance Machine, LLC  
(603) 415-0110 Concord, NH

**PRECISION MULTI-AXIS MACHINING**  
Specializing in Mill/Turn Machining of  
Stainless Steel and Non-Ferrous metals:  
**316L + 304L + Nitronic 50/60**  
**17-4 H1150 + HH1150 + H900**



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

**Say Yes!**  
**You've loved that old geezer, but isn't it time to upgrade?**

CNC Machines do not last forever. Let our experienced sales engineers listen to your needs, evaluate your applications and help you modernize and integrate the right machine tool into your shop. Get new capabilities, quality improvements, increased profitability, and tap into the full potential of your equipment and workforce. ABLE sells and services the high-quality machine tool and metrology systems of these well-known manufacturers:

**REPRESENTING**  
AIMS  
B/X-ACT  
CLAUSING  
DOOSAN  
FLEXMILL  
MAKINO  
PARPAS  
TACCHI  
TAKAMAZ  
RENISHAW

In New England Phone  
**800-423-4959**



**ABLE** Machine Tool Sales  
www.ablemts.com  
253 Silver St. Agawam, MA 01001

**Quality** ENGINEERING

**NOW AVAILABLE FOR YOUR VTL NEEDS:**

AMERA-SEIKI VT 1200  
PRECISION CNC VTL  
Max Swing Diameter: 1350mm (53.1")  
Max Cutting Height: 800mm (31.4")



ISO9001:2015 Certified

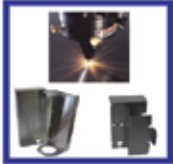
Also specializing in the **DESIGN** & fabrication of precision machine tooling.

Get a competitive quote for your next VTL project:  
**(800) 637-6809** or email: [qesadmin@qes1.com](mailto:qesadmin@qes1.com)

**Quality Engineering Services, Inc.**  
Wallingford, CT - [www.qes1.com](http://www.qes1.com)



# Your Project: From Prototype to Production



## Solutions & Services

### Precision Sheet Metal Fabrication

Capacity: 1/4" Mild & Stainless Steel, Aluminum, Lexan & More!

Our 70+ yrs. Engineering experience  
3D Design Assistance  
Shearing, Laser Cutting, CNC Axis  
Bending, Welding, Assembling

Prompt Attention & **ON TIME** Delivery



7 BROOKFIELD STREET  
Worcester, MA 01605  
SALES@HOWARDPRODUCTS.BIZ  
508-757-2440  
www.Howardproducts.biz



SCAN ME



# VACUUM AND ATMOSPHERE HEAT TREATING + BLACK OXIDING

## PROCESSES

- ◆ Hardening
- ◆ Tempering
- ◆ Annealing
- ◆ Carburizing
- ◆ Carbo-nitriding
- ◆ Normalizing
- ◆ Stress Relieving
- ◆ Precipitation HT
- Commercial Black Oxide
- ISO 9001 and AS 9100



**Nadcap  
Certified**

**Federal  
Firearms  
License**

## MATERIALS

- ◆ Tool Steels
- ◆ Stainless Steels
- ◆ High Speed Steels
- ◆ Alloy Steels
- ◆ Carbon Steels
- ◆ Super Alloys
- ◆ Non-Ferrous
- ◆ PH Steels



Tel: 860-523-9090  
Fax: 860-236-8052

565 Cedar Street  
Newington, CT 06111

Andy@sousacorp.com  
www.sousacorp.com



# EXTREME HEAT TREATING FOR EXTRAORDINARY RESULTS



# MuShield®

AS:9100D | ISO 9001:2015 Certified | ITAR Registered Company

MuShield has a longstanding history of in-house heat treating using our hydrogen furnace and state of the art vacuum furnace. We apply specialized heat treating cycles to every project on our production floor.



For Orders and Pricing:  
Contact MuShield today for more information  
[ 888.669.3549 ]

The Mushield Company, 9 Ricker Avenue, Londonderry, NH 03053 | Toll Free: 888.669.3539 | info@MuShield.com  
MuShield.com | MuMetal.com | HydroformingManufacturing.com | CryoPermShielding.com



# JCB



Performance Machine, LLC

(603) 415-0110 Concord, NH

## PRECISION MULTI-AXIS MACHINING

Specializing in Mill/Turn Machining of  
Stainless Steel and Non-Ferrous metals:

316L • 304L • Nitronic 50/60  
17-4 H1150 • HH1150 • H900



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



## RIGGING & FABRICATION



INDUSTRIAL TRANSFER &  
STORAGE INC.

- Lifting Capacity Over 100,000 lbs
- Servicing New England, The U.S., & Internationally
- New 10 x 12 CNC Plasma Table
- Specialists in Plant Relocation & Strategic Machine Moves

Successfully Moving Industry Since 1984

**508-765-9178**

Southbridge, MA • [www.industrialtransfer.com](http://www.industrialtransfer.com)

## WHERE QUALITY COUNTS

# CNC Machining

**Prototype & Production Quantities**  
Let us put our engineering and machining talents to work for you!

### Precision Milling

AutoCAD Design  
Master CAM Machine

### Precision Turning

Design Capability  
Quick turnaround

Personalized Service

Now offering **LASER PART MARKING**

Using our new  
**TRUMF VMC1 LASER MARKING MACHINE**

We offer one-stop shopping where we will handle your complete job. So whether heat treated, plated or painted we can supply to your requirements the way you want it.

ISO 9001:2000  
SAE AS9100

## R & S REDCO, INC

106 Finnell Drive. Ste 24 Weymouth, MA 02188

Tel: 781-331-4300

Fax: 781-331-4800

[www.rsredco.com](http://www.rsredco.com) Email: [sales@rsrsredco.com](mailto:sales@rsrsredco.com)

## RIGGING AND HEAVY HAULING

- ◆ 70 Years Experience
- ◆ Forklift Capacity to 60,000 lbs
- ◆ Machinery Moving
- ◆ Mill-Wright Services
- ◆ Domestic & Export Crating
- ◆ Inside Storage / Warehousing



Tel. (603) - 623-1533

**RIGGERS**

[lpcote.com](http://lpcote.com)

From start to finish,  
prototype to progressive...



**WE ARE YOUR  
ONE STOP SHOP!**



**WIRE EDM  
PRECISION TOOL & DIE  
CNC MILLING  
METAL STAMPING**

**11 Center Street  
Raymond, NH 03077  
(603) 895-1200  
info@shookustools.com**



**PLASTIC DESIGN INC**

Specializing in plastic fabrication & plastic components

- Corrosion Resistant Products
- Biomedical Research Products
- Laboratory/Clean Room Products
- Wet Process Equipment
- Custom Design and Fabrication
- Engineering & Installation Assistance
- Mass Production
- Direct & Wholesale Sales
- Raw Materials Sales
- Stainless Steel Products



**CUSTOM  
DESIGN AND  
FABRICATION  
OF PLASTIC  
PRODUCTS**

ISO 9001: 2015 Certified  
North Chelmsford, MA

**978.251.4830**

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

**ELECTROPOLISHING  
SERVICES**

- ⊖ New England's Largest Electropolisher
- ⊖ ISO 9001 & 13485 Certified
- ⊖ 12 Electropolishing Lines
- ⊖ Precision Rates of Removal (.0001")
- ⊖ Small & Large Parts
- ⊖ Custom Packaging Services
- ⊖ Expedited Service Available



**New England Electropolishing**  
800-672-6616  
[www.neelectropolishing.com](http://www.neelectropolishing.com)  
sales@neelectropolishing.com



**BAY STATE  
MACHINE**

GRINDING & HONING



**GRINDING & HONING SPECIALIST**

- ID-20" Swing
- OD-84" Long
- Surface Grinding 24"x60"
- CNC Cylindrical

- ID & OD GRINDING**
- HONING**
- SURFACE GRINDING**
- CNC CYLINDRICAL**

Top Quality • Any Quantity • Pickup & Delivery • Same Day Quotes

**Plainfield, CT** tel: 860-230-0054 [baystatemachine@hotmail.com](mailto:baystatemachine@hotmail.com)

# CONSUMABLE SUPPLIES

**Highest Quality. Competitive Prices.**

SMS carries a large selection of metallurgical supplies for your in-house lab needs. We cover all of your sample preparation requirements and are *happy to provide samples to evaluate.*

- Grinding Papers
- Polishing Cloths
- Diamond Suspension
- Diamond Paste
- Hot Mount Powders
- Mounting Clips
- Mold Cups
- Saw Blades
- Cold Mount Epoxies
- And so much more...



**Sturbridge  
Metallurgical  
Services, Inc.**

**Shop  
ONLINE**

[www.smslabs.com](http://www.smslabs.com)  
1-866-340-5288



**NORTHEAST 3D**  
ne3d.net **SOLUTIONS**

## 3D PRINTING & SCANNING SERVICES

### 3D Printing Services

- Rapid Prototyping Parts
- Parts for End Use
- Workholding for Machining
- Machinery & Wear Parts
- Lost Wax Models
- Corrosion Upgrades
- 3D Part Modeling
- Reverse Engineering
- Engineering Support

### 3D Scanning Services

- Product/Tool Inspection
- Tool and Die duplication
- Spare part development
- Scan to CAD Comparison
- Product Development
- Replication/Reproduction
- Quality Assurance/Control
- Visualization/Animation
- Sculpture and Art



Northeast 3D 156 Wall St. Springfield VT 05156 Tel (802)698-3764



## ACCURATE METAL SALES & FABRICATION

A Division of Industrial Transfer & Storage, Inc.

Mild Steel  
Stainless Steel  
Aluminum

Hot Rolled • Cold Rolled  
Abrasion Resistant

Sheared • Plasma Cut  
Bent • Rolled • Saw Cut  
Punched • Drilled  
Welded • Fabricated

*Where Service is  
Stronger Than Steel*

508-765-4929

In House Design Services • Mig & Stick Welding • AWS D1.1  
[www accuratemetalsales.com](http://www accuratemetalsales.com)  
Southbridge, MA

# HEAT TREATING

Vacuum High Pressure Quench

Non - Ferrous Heat Treat

Austempering

Marquenching

Carburizing

Nitrogen Tempering

Solution Heat Treating

Water Quenching

### MATERIALS

- High Speed Steels
- Alloy Steels
- Tool Steels
- Stainless Steel
- Aluminum
- Plastics



**HARDLINE**  
HEAT TREATING, INC.

### OTHER SERVICES

- Bright Hardening
- Cryogenics to -300°F
- Glass Bead Blast
- Grit Blast Clean
- Plastics Thermal Treatment
- Precipitation Hardening
- Anneal & Normalization
- Metallography
- Stress Relieving

Consistent On Time Delivery  
Pickup & Delivery Available  
Member MTI / ASM

134 Ashland Ave. Southbridge, MA 01550  
[www.hardlineheattreating.com](http://www.hardlineheattreating.com)

Tel: (508) 764-6669 Fax: (508) 764-6654



# CONNECTICUT TOOLING & MACHINING ASSOCIATION


**Dee Babkirk**, CTMA Executive Director  
For more info contact: [director@ct-ntma.org](mailto:director@ct-ntma.org)  
Learn more at: [www.ct-ntma.org](http://www.ct-ntma.org)

The Executive Suites  
440 North Main Street  
Bristol, CT 06010  
P: 860.604.8963 F: 860.254.7191



**CENTERLESS GRINDING  
& THREAD ROLLING**

25 Rosenthal Street ■ East Hartford, CT 06108  
phone: (860) 289-2987 ■ fax: (860) 289-3142  
web: [www.unitedcgtr.com](http://www.unitedcgtr.com)  
e-mail: [njgoulet@unitedcgtr.com](mailto:njgoulet@unitedcgtr.com)



Precision Metal Stamping      CNC Machining  
Precision Assembly              Secondary Operations

*The best place to start your  
precision metal part*

Phone: 860 -349-1756 | [www.hobsonmotzer.com](http://www.hobsonmotzer.com)

ISO 9001:2018 CERTIFIED    IATF 16949 CERTIFIED



**We Armor Your Assets**



# MuShield®

AS:9100D | ISO 9001:2015 Certified | ITAR Registered Company

For over sixty years, The MuShield Company has been a worldwide industry leader as a manufacturer of custom magnetic shields and precision sheet metal fabrication.



For Orders and Pricing:  
Contact MuShield today for more information  
**[ 888.669.3549 ]**

The Mushield Company, 9 Ricker Avenue, Londonderry, NH 03053 | Toll Free: 888.669.3539 | [info@MuShield.com](mailto:info@MuShield.com)  
[MuShield.com](http://MuShield.com) | [MuMetal.com](http://MuMetal.com) | [HydroformingManufacturing.com](http://HydroformingManufacturing.com) | [CryoPermShielding.com](http://CryoPermShielding.com)



**Quality Turned Machined Parts**  
 New Hampshire Machine Products, Inc.

- QUICK TURNAROUND ON QUOTES
- JOBS PRICED COMPETITIVELY
- BROAD RANGE OF MATERIALS



**QUALITY TO CLOSE TOLERANCES:** Utilizing single spindle automatic screw machines from 1/32" through 2" capacity, as well as CNC equipment.

**SUPPORTED BY:** A broad range of secondary capabilities to include drilling, threading, tapping, milling and slotting.

**AUDIT INTENSIVE:** Complete internal tracking of all orders start to finish.

**PROCESS CONTROLLED:** Includes raw material traceability.

**QUALITY:** Quality assurance programs performed to MIL-STD-105D.

**PRODUCTION RUNS:** From 50 to 100,000 pieces.

**CALL OR FAX US REGARDING YOUR SCREW MACHINE REQUIREMENTS AND WE GUARANTEE YOU A QUICK, COURTEOUS AND INTELLIGENT RESPONSE.**

**NEW HAMPSHIRE MACHINE PRODUCTS, INC.**



CUST. TEL. 1-800-639-9404  
 Reg. Tel: 603-772-4404 Fax: (603) 772-6043  
 10 KINGSTON RD.— P.O. BOX 975  
 Exeter, NH 03833  
[www.newhampshiremachineproducts.com](http://www.newhampshiremachineproducts.com)

E-Mail: [barbara@newhampshiremachineproducts.com](mailto:barbara@newhampshiremachineproducts.com)

**FABRICATION & MACHINING  
 FOR ALL INDUSTRIES**

CNC Milling/Turning	Manual Milling/Turning
VMC: 40" x 120"	Vertical Milling: 40" x 250"
HMC: 78" x 118"	Horizontal Milling: 72" x 72"
Turning: 16" x 24" cc	Turning: 48" x 240" cc

**AWS Certified Welders • ISO 9000 Compliant**



**Innovative  
 MACHINE • INC.**

40 Snow Road • Winchester, NH 03470  
 Tel: 603-239-8082

**Contact: Terry Haskins**  
[www.innovative-machine.com](http://www.innovative-machine.com)  
[tmhaskins@innovative-machine.com](mailto:tmhaskins@innovative-machine.com)

**Wire & Sinker EDM Services**

- ⚙️ 5 Axis Wire EDM
- ⚙️ Orbiting Sinker EDM

Tel: 207-743-7273  
 Fax: 207-743-7269

**NORTHEAST TOOL & DIE CO., Inc.**

PO Box 28      16 Aldrich Ave.      Norway, ME 04268      [www.northeasttool.com](http://www.northeasttool.com)



- ⚙️ Metal Stampings
- ⚙️ Precision Machining
- ⚙️ Prototypes
- ⚙️ Fixture Tooling
- ⚙️ Compound Dies
- ⚙️ Progressive Dies
- ⚙️ Secondary Dies
- ⚙️ Injection Molds

*Quality Tooling Solutions since 1992*

THE GATEWAY  
MAGAZINE'S 2021  
COMPANY SPOTLIGHT  
YEAR IN REVIEW

2022 will be here in a few short weeks. As is the case in many periodicals, the annual “year in review” writeups will be abound and range in subject matter across the board. With that sentiment in mind, we at The Gateway Magazine thought we’d keep our year end wrap alive by putting a quick focus on all the spotlights we cranked out throughout 2021. As the calendar turns to 2022, please don’t hesitate to reach out and get your company in the queue for your own feature this year. We’d love to make it happen!

With that, let’s get into it. Thanks for picking up the magazine this year and for taking an interest in the features we’ve been piecing together for over twenty years now. (And as always, visit: [www.thegatewaymag.com](http://www.thegatewaymag.com) to access all of our archived materials, which include our company spotlight pieces, as well as our industry tips and trends stories).

Here’s how 2021 shaped up:



**MONALEX MANUFACTURING**

*Douglas, Massachusetts*

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

Monalex is a full-service machining and manufacturing shop specializing in the production of precision machined parts to fit customer specifications for OEMs in various industries. They have long been producing durable and reliable pressure and temperature switches, controls, transducers and sensors for oil and gas; medical, endoscopes; process control instrumentation; aerospace; automotive aftermarket; corrosion resistant and cryogenic valves; just to name a few.



**SHARPLES**

*North Attleboro, Massachusetts*

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

This was part one of a two-part series for Sharples, who got the Gateway Magazine treatment of two spotlight features in 2021 (if you've got ideas for your own two-part series, let us know). Sharples has been manufacturing steel rule dies since 1967. The company has decades of experience in all aspects of steel rule diemaking and serves multiple diecutting industries with its technologically advanced equipment. Part one focused on steel rule dies, which, as it were, is one of Sharples specialties, serving such applications as bulky automotive interior trim, basket manufacturing, electronics, foam, medical, packaging, and more.



**BOULEVARD MACHINE & GEAR**

*Westfield, Massachusetts*

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

Serving some of the largest Tier 1 aerospace and defense customers across the industry, Boulevard's core competencies lay in their unique ability to machine complex multi-axis components from modeling, programming, machining, to first article inspection with responsive lead-times. Boulevard's blend of talented machinists provides unparalleled quality components while utilizing a mix of 5-Axis Milling, CNC Turning, and CNC Gear Cutting equipment. While the manufacturing of gears was once Boulevard's mainstay, they have transformed into a versatile manufacturing facility under the undying persistence of owner Susan Kasa.



**HOWARD PRODUCTS**  
**Worcester, Massachusetts**  
[www.howardproducts.biz](http://www.howardproducts.biz)

For the last 73 years Howard Products has used engineering ingenuity and keen attention to customer service to fabricate parts in a way that delivers value add to its customers. Howard Products has broad capabilities and strong relationships with outside services (machining/finishing, etc.), allowing them to take a project from an idea to a finished part delivered on time, every time. In the beginning stages, engineering works closely with the client to completely understand the project and suggest efficient cost saving methods of fabrication. As the project moves forward, parts are finished to spec and delivered on time.



**PLASTIC DESIGN INC.**  
**North Chelmsford, Massachusetts**  
[www.plasticdesigninc.com](http://www.plasticdesigninc.com)

Founded in 1976, Plastic Design Inc. has established itself as a leader and innovator in the field of custom plastic fabrication. The unique demands of the markets we serve are rarely satisfied by generic or mass-produced products. Their expertise lies in creating products that meet the specific needs of each customer. PDI's experience within the biomedical, pharmaceutical and semiconductor industries have resulted in the development of cutting-edge products and methods by which they are produced. Application of the latest manufacturing technologies ensures that Plastic Design Inc.'s products comply with the strict tolerances and requirements of these industries. Their engineering depth and strategic alliances allow them to produce products ranging from simple cabinetry to the most advanced, fully automated stations. Working from a professional design, rough sketch or simply an idea, PDI can make your concept a reality.

**WINSLOW AUTOMATICS, INC.**

**WINSLOW AUTOMATICS**  
**New Britain, Connecticut**  
[www.winslowautomatics.com](http://www.winslowautomatics.com)

Winslow Automatics is a contract manufacturer providing custom metal fabrication services which has been serving the aerospace, commercial, and medical industries since 1956. The company is a well-respected aerospace and aircraft parts equipment manufacturer with an outstanding reputation for CNC milling and turning as a contract manufacturer and job shop producing quality machined products. Through a combination of precision CNC machining, engineering expertise, innovative CNC programming production techniques, and a diverse array of CNC machinery and equipment, Winslow can handle both large and small milling and turning production lots. Winslow's substantial equipment inventory also allows it to serve as a job shop, performing single or multiple operations on existing parts.



SHARPLES

*North Attleboro, Massachusetts*

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

Part two of Sharples 2021 Gateway series focused on contract cutting which the company started in on in 2004—building upon its existing steel rule diemaking service. It's most recent development in the contract cutting department came in 2020 when Sharples enhanced its waterjet cutting capability by installing a 5-axis abrasive waterjet machine. In the company's quest to continually evolve, a second milling machine was added to its CNC milling department to expand capacity and throughput. Contract cutting services from Sharples include laser, waterjet and milling for large-scale as well as small projects. Be sure to take in both unique parts of this series in our spotlight article archive on [www.thegateway.com](http://www.thegateway.com).



THE ROBERT E MORRIS COMPANY

*Springfield, Massachusetts*

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

The Robert E. Morris Company provides CNC machine tools, tooling and accessories, and related engineering and support services to manufacturers of precision machined parts in the New England states plus Northern New Jersey and Eastern New York, including the New York metro area and Long Island.

In September The Robert E. Morris Company was excited to announce the opening of their new technical center in Dover, New Hampshire! This new technical center brought them closer to their customers for better service from all aspects. It creates a local service hub with a local service manager to handle technical service questions and dispatch to local service technicians. With this new location, The Robert E. Morris Company will provide constantly improving service to its customers with better response times and lower travel costs.



NORTHEAST 3D

*Springfield, Vermont*

[www.howardproducts.biz](http://www.howardproducts.biz)

Northeast 3D is a Springfield VT company specializing in 3D printing, scanning and additive engineering services. Northeast 3D printing services excels in engineered tooling solutions like product prototyping, parts for end use, workholding for machining, automation parts (EOT, etc.), machinery wear parts, models for investment castings (lost wax), corrosion resistant upgrades, 3D part modeling, reverse engineering, architectural models, additive process development and the sale/integration of 3D printers that they resell and build. Northeast 3D provides scanning services for new product development, maintenance, replication/reproduction, quality control, visualization/animation, and sculpture and art. Additionally the company offers post processing machining, CNC routing, CNC Waterjet, assembly, and coating/painting.



**ABLE MACHINE TOOL SALES**  
**Agawam, Massachusetts**  
[www.howardproducts.biz](http://www.howardproducts.biz)

ABLE's mission is to help its customers modernize operations and integrate the right machine tools into their system to streamline their manufacturing process, find new efficiencies, create improvements, increase profitability, and tap the full potential of their tools and workforce now and into the future.

They sell machines and accessories, service everything they sell, and provide needed parts, technical support, and training throughout New England. They sell

machining centers, wire and Ram EDMs, milling and boring machines, turning centers, lathes, automated deburring systems, drills, saws, automated part handling tools, manual and direct computer-controlled coordinate measuring machines, metrology systems, polishing, twin spindle and gantry mills, and a wide variety of accessories, including such things as probes and robots. They also provide engineered services, parts and repair service, technical training, technical support, and install integrated and automated systems.



**TDF METAL FINISHING**  
**Danvers, Massachusetts**  
[www.tdfmetalfinishing.com](http://www.tdfmetalfinishing.com)

TDF is moving quickly into the modern world of today's business, evolving into a company capable of meeting the needs of machine shops, fabricators and OEMs throughout the region and serving a multitude of industries. From medical to aerospace, high tech electronics to some heavy industrial products, TDF is a capable and diverse finishing house, able to meet the needs of many advanced manufacturers. TDF offers a very wide array of finishes and can be a one stop finisher for many machine shops and manufacturers as well as supply other customers with specialty, unique or a "cut above" quality. (Read their full spotlight in this very issue!)

HAVE A STORY IDEA? LIKE WHAT YOU'RE READING?

*We would like to hear it. Contact us to give us your input or feedback.  
 We're always looking for new stories to discuss.*

**chris@thegatewaymag.com or Call: (877) 463-4020**

**HOUSE DEMOCRATIC MANUFACTURING WORKING GROUP SEMINAR**

So, we didn't have the space for a spotlight in April (no foolin'). We put a lot of our focus on a conference we attended on March 18th, held by United States House Majority Whip James E. Clyburn (SC-06) and Representative Haley Stevens (MI-11), who announced the launch of the House Democratic Manufacturing Working Group, which has been put in place to examine key issues for strengthening the American manufacturing sector.

The House Democratic Manufacturing Working Group made the proclamation that they were looking to collaborate with key stakeholders throughout the industry to restore and transform American manufacturing, protect supply chains, and ensure that domestic manufacturing can compete and lead in a 21st century economy.

*The three major areas of focus they put "the spotlight" on included:*

1. Workforce development, economic recovery, and access to capital
2. Climate and sustainability
3. Trade, access to markets, and the export-import bank

We'll see how it goes (and will monitor progress in 2022)!

**For the full article, visit:**

**[www.thegatewaymag.com/industry-insight/congress-launches-group-focused-on-strengthening-american-manufacturing-sector/](http://www.thegatewaymag.com/industry-insight/congress-launches-group-focused-on-strengthening-american-manufacturing-sector/)**

**Mitee-Bite Connects with D&J Precision Machine**



Image Courtesy of djprecisionmachine

- Tool Steel Connecting Rods
- High Performance 3,000 HP Diesel Engines
- 10K Holding Force

Free Design Consults  
**MiteeBite.com 800-543-3580**

**MITEE-BITE PRODUCTS LLC**  
 WORKHOLDING SPECIALISTS

# HEAT TREATING



- VACUUM
- INTEGRAL QUENCH
- CONTINUOUS BELT
- NITRIDING
- STRESS RELIEVING
- ANNEALING

\*Pick up and Delivery Available\*

**Certified By General Dynamics for AMS 2759**

Aluminum Heat Treating	Long Vertical Capability
Sandblasting	Parts Cleaning
Brazing	Straightening

**COUNTY HEAT TREAT**

32 Howe Avenue | Millbury, MA 01527  
 Tel: (508) 865-5885 Fax: (508) 865-4033  
 Website: [www.countyheattreat.com](http://www.countyheattreat.com)

**ISO 9001: 2008 CERTIFIED**

Centrally Located in New England. 2 miles from MA Pike, Exit 10A  
 24 Hour Service and weekends if Needed.

# HIGH PERFORMANCE ALLOY SPECIALIST



**NICKEL  
COBALT  
STAINLESS STEEL  
ALUMINUM ALLOY  
ALUMINUM EXTRUSIONS**

**WATERJET CUTTING  
EDM CUTTING  
MILLING & TURNING  
SAWING  
SHEARING**



- Near Net Shape Cutting
- Laser Quality Inspection
- Finish Machining

11 Britton Drive Bloomfield, CT 06002  
Tel: 860-882-0019 or 800-214-0475  
Fax: 860-882-0967  
sales@aalloys.com www.aalloys.com



**ISO 9001:2000  
AS 9100B Certified  
P&W LCS APPROVED**

## Bodycote

- Specialists in the thermal processing of components used in aerospace & defense industries
- Maintains major accreditations (ISO 9001:2000, AS 9100, Nadcap) and approvals from prime aerospace manufacturers and their supply chains



Call 860.225.7691 or visit [www.bodycote.com](http://www.bodycote.com) for more information

BERLIN Connecticut    SOUTH WINDSOR Connecticut    IPSWICH Massachusetts    WORCESTER Massachusetts    LACONIA New Hampshire    CINCINNATI Ohio

### Processes

- Carburizing
- Electron beam welding
- Ferritic nitro carburizing
- Honeycomb brazing
- Induction treating
- Lindure®
- Nitriding
- Pit nitriding
- Vacuum heat treating & brazing

### Materials

- Aluminum
- High temp alloys
- Tool steels

THE  
**Gateway**  
MAGAZINE

ENJOYED THIS  
MONTH'S FEATURES?

Read these and many more  
on our website!

[WWW.THEGATEWAYMAG.COM](http://WWW.THEGATEWAYMAG.COM)

GO NOW!

CLEAN FRESH AIR EXPERTS.....

*We bring the fresh outside air inside*



*Air to Air  
Heat Exchangers*

*Exhaust the  
un-healthy air  
and replace with fresh  
outside air  
while saving energy!!!!*

## COMMOM RESPONSES

"WHY DID WE WAIT SO LONG TO PROVIDE FRESH AIR"

"IT'S AN INVESTMENT IN OUR EMPLOYEES HEALTH"

"IT'S SO MUCH HEALTHIER NOW WITH FRESH AIR"

MANCHESTER, NEW HAMPSHIRE



WWW.VENTUSA.COM

603 622 1791

## DATANOMIX ADDS NEW CONTINUOUS IMPROVEMENT HUB TO ITS NEXT-GEN AUTOMATED PRODUCTION MONITORING PLATFORM

New reporting workflow provides clear factory performance indicators and automatically identifies and analyzes greatest improvements and risks to productivity

Datanomix, of Nashua, New Hampshire, announced a major new reporting workflow designed to give business leaders and continuous improvement personnel insights into overall factory performance, as well as top opportunities for improvement. Called the Continuous Improvement Hub (CI Hub), this new workflow consolidates key performance indicators for factory health into a single dashboard that allows users to quickly track and validate improvements and identify risks and opportunities to meet factory business goals.

The CI Hub is a logical extension of Datanomix's mission to deliver actionable insights that empower manufacturers to monitor and manage production in real time, while giving them the deep insights into overall factory performance over time. The CI Hub consolidates and analyzes data across all of the machines and jobs in a factory that are monitored by Datanomix, providing an overall production score for the entire factory, along with simple breakouts of key metrics that are critical to Continuous Improvement personnel, such as cycle time performance, asset utilization, and schedule efficiency.

"We conceived the CI Hub as a way to fuel two critical dimensions of the factory at once - first, for executives to see that the efforts and initiatives of their teams are working, and second, for continuous improvement and leadership teams to get clear guidance on where their greatest opportunities for improvement exist," said John Joseph, CEO and co-founder of Datanomix. "With CI Hub, Datanomix is providing your team with an active agenda of what to work on for Continuous Improvement. You get a live baseline of the overall business summarized for you, with indicators and drill-downs into jobs and machines that offer the best opportunity for improvement to harvest the next round of productivity gains. At the end of the day, CI Hub exists to help you build an operations management framework based on an intelligent assessment of your data and trends."

With Datanomix, manufacturers simply connect the system to their CNC machines and Datanomix automatically ingests the data, using advanced analytics and machine learning to derive insights and a unique per-job production benchmark. This benchmark is calculated as parts are being made and provides a baseline for production scoring that immediately drives your team to higher levels of productivity because it is both derived from real data and calibrated to an aggressive but achievable performance level. When Datanomix production scores are displayed on large-screen TVs across the factory floor, everyone on the team understands the trajectory of every job in real time, rallying to those that need attention to keep production on track.

"Everyone in a factory - operators, supervisors, quality control, continuous improvement, and leadership - are flat out, and they need good data and good information to put their expertise to use to drive efficiency," said Greg McHale, CTO and co-founder of Datanomix. "When we developed the Datanomix platform, our mission was to automate the information that manufacturers need to solve the problems of right now, while also delivering meaningful trends and insights that can only emerge over time. The Continuous Improvement Hub is a significant step forward for factory leaders who want to quickly understand if the business is on track and improving, and for the leadership team to see that everyone is focused on the most valuable and impactful opportunities in a data-driven manner."

The Continuous Improvement Hub will be added to the Datanomix platform before the end of November. All existing Datanomix customers will be given access to the new dashboard, and an exclusive customer training on the new functionality is scheduled for December.

***Learn more at [www.datanomix.io](http://www.datanomix.io).***

UVITRON INTERNATIONAL LAUNCHES NEW, ENHANCED WEBSITE

Uvitron International, Inc., a designer and manufacturer of high-performance UV light curing systems and accessories, recently launched a new website offering streamlined navigation and improved quoting capabilities, among other features.

“Online technology has changed tremendously since we launched our first site, and it was time for us to upgrade to make it easier for our customers to find and request quotes for the systems and products they need,” said Eugene Mikhaylichenko, Uvitron’s sales and marketing director. “This new site will increase productivity on our end and bolster our already exceptional customer service.”

Uvitron was established as a developer and manufacturer of switch-mode power supplies for light curing systems, developing the first electronic arc lamp power supply. The company has since evolved into a total solutions provider of light curing systems and accessories.

“As our company and number of products has grown, we needed a more robust, updated website,” said Mikhaylichenko. “Our new quoting system now offers multiple configuration options, allowing customers to select the customization options that meet their specific needs.”

In addition to enhanced navigation and quoting capabilities, the new site also features more comprehensive product information, applications by industry and information about services and capabilities such as application analysis, sample testing and demo units. Experience the new site at [uvitron.com](http://uvitron.com).

*View the new website at [www.uvitron.com](http://www.uvitron.com)*

**OPPORTUNITIES LOCKED AND LOADED.**

**Grind Setup/Operator – Newington, New Hampshire – All Shifts**

SIG SAUER, Inc. is a leading provider and manufacturer of firearms, electro-optics, ammunition, airguns, suppressors, and training. SIG SAUER is synonymous with industry-leading quality and innovation which has made it the brand of choice amongst the U.S. Military, the global defense community, law enforcement, competitive shooters, hunters, and responsible citizens. The tremendous growth of SIG SAUER has fueled outstanding opportunities for experienced professionals to join our team. Are you experienced in Grind Setup and operation of one or multiple CNC ID/OD Grind Machines in a production environment? If so, we want to talk to you. We are hiring for positions at our corporate headquarters in Newington, New Hampshire. We have openings on 1st, 2nd and 3rd shift weekdays and our 1st and overnight weekend shifts where you work 36 hours and get paid for 40.

**If you are interested in learning more about our Grind Setup and Operator positions, email a resume to: [recruiter@sigsauer.com](mailto:recruiter@sigsauer.com) or call us at: 603-610-3614**

At SIG SAUER, we truly value our team members and their families and we offer a comprehensive benefits package designed to meet their needs. Benefits include: **Medical/Dental/Vision, 401(k) Savings Plan, Employee Discount Program and more.**

SIG SAUER, Inc. is an Equal Opportunity Employer, and all qualified applicants will receive consideration for employment without regard to race, religion, color, sex, gender identity, sexual orientation, age, non-disqualifying physical or mental disability, national origin veteran status, or any other basis covered by appropriate law.



GOT PRESS? GET THE WORD OUT.

*Make sure we're on your press outlet hit list. Advertisers in the Gateway have access to promote news and events right here to YOUR target market.*

**[chris@thegatewaymag.com](mailto:chris@thegatewaymag.com) or Submit at [thegatewaymag.com](http://thegatewaymag.com)**



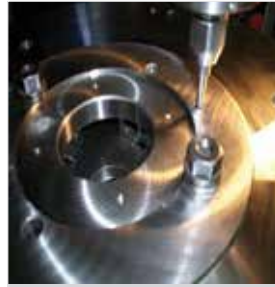
**Spur & Worm Gears  
Internal / External Splines  
Broaching, Hobbing, Shaping**



**JoVal Machine Company, Inc.**

515 Main Street Yalesville, CT 06492  
Tel (203) 284-0082 Fax (203) 284-9605

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



*PRECISION MACHINING  
- SINCE 1963 -*

**- Precision Machining -  
- Toolmaking -  
- Jig Grinding Service -  
CLASSIC JIG GRINDING**

[jiggrind@snet.net](mailto:jiggrind@snet.net)  
[classicjiggrinding.com](http://classicjiggrinding.com)

Ph (860) 870-4900  
Fax (860)870-1900



Contract and prototype manufacturing of precision screw machined parts for volume production

217 Harrison Rd.  
Bridgton, ME 04009

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

207-647-3566  
[info@merrimackmfg.com](mailto:info@merrimackmfg.com)

**MINI-BROACH MACHINE CO., INC.**

Contract Broaching Services, Broaches, Tooling, Broach Sharpening, & Broaching Machines, with over 45 years experience.

[info@minibroach.com](mailto:info@minibroach.com)  
Tel: (978) 386-7959  
Fax: (978) 386-7123



**Rush Broaching Services Available!**



**(860) 928-7965**

(860) 928-7965  
Fax (860) 928-1408

10 Senexet Road • Putnam, Connecticut • 06260

Plating of Hard Chrome, Electroless Nickel, Mass Finishing Media, Equipment and Supplies  
Mass Finishing, Tumbling & Deburring  
Web Page: [www.nationalchromium.com](http://www.nationalchromium.com)



**Fast Hole, Wire and Sinker EDM  
Precision Tools, Dies, Jigs and Fixtures**

**Border Tool and Die,**

DBA Bengtson Tool and Die



240 Gale Street Canaan, VT 05903  
T: 802-266-9666 F: 802-266-9667

[richard.btd@gmail.com](mailto:richard.btd@gmail.com)

Federal Firearms Lic  
# 6-06-009-07-7G-03042

**CT LASER**  
& ENGRAVING

**YOUR ONE STOP SHOP  
FOR ALL YOUR PART MARKING NEEDS**

203-265-9366 | [sales@ctlaserengraving.com](mailto:sales@ctlaserengraving.com)  
[www.ctlaserengraving.com](http://www.ctlaserengraving.com)

**DYNAMIC BALANCING**



*Industrial, Medical & Commercial applications from one piece to large production runs.*

Pump Impellers - Fan Wheels - Prototype Development  
Gears - Motor Armatures - Sheaves and Pulleys -  
Flywheels - Couplings - Much More

8 Donnelly Road, PO Box 303 Spencer, MA 01562

[www.ne-spintech.com](http://www.ne-spintech.com)

Tel: 508-885-5300 Fax: 508-635-6831

Companies that use  
WD-40....

Du-Lite's RG-55 cost less, last longer and protects parts from corrosion for up to 18 months when stored indoors.

ASK FOR FREE SAMPLES

CALL 860-347-2505

OR EMAIL: [dulite@sbcglobal.net](mailto:dulite@sbcglobal.net)

[WWW.DU-LITE.COM](http://WWW.DU-LITE.COM)

**WANTED OLD GAS FORK LIFTS**



We Buy Old Forklifts for Parts. Gas or Electric, Large or Small, Running or Not.

We pay reasonable prices. Call Walt 860-508-9164 Will Pick Up and Pay Cash

**Also Electric Forklift Batteries Wanted**

**WANTED OLD ELECTRIC FORK LIFTS**

Wanted Used Electric Forklifts, running or not.

Also looking for LARGE Used Batteries good or bad. Must be reasonable, we pick up and pay cash.

Call Walt: 860-508-9164



# ABLE Air

**Air Compressor Sales and Service**

Serving  
Vermont,  
New Hampshire  
and Maine

www.ableairne.com



- We service ALL Brands of compressed air equipment
- Compressors, vacuum pumps, air dryers, blowers...etc.
- 24-hour emergency service
- Air piping design and installation
- Flow and KW metering

- Reliable
- Energy Efficient
- Fixed speed from 3 hp to 605 hp
- Direct coupled one-to-one drive compressors
- Variable speed drive compressors from 10 hp to 350 hp
- German engineering at its finest!
- Rotary screw compressors for every budget!



**KAESER**  
COMPRESSORS  
*Built for a lifetime.*

**New England's Original Dealer and Still the Best Place to Buy Your New Kaeser**

**For prompt, professional service, call: 1-800-462-0228**

Serving New England For Over 50 Years

## Metal Stampings

Double Action      Deep Drawing

Washers • Discs • Rings  
**UP TO 80" Diameter**  
**500 TON CAPACITY**

Stampings to 3/4" thick  
Short or long runs  
Wire EDM



Tool & Die Makers  
Quick Turn Around  
CAD/CAM Design

**Peter Forg Mfg. Co.**

130 YEARS OLD AND GROWING

888-625-4577      Fax 617-625-0331  
50 PARK ST. PO Box 433 SOMERVILLE, MA 02143  
www.peterforg.com

## Teflon™ coatings

Improve part performance  
with unique properties of Teflon™ coatings!

Coatings can be applied to:

- metals
- elastomers
- ceramics
- composites
- rubber
- glass



### As a licensed industrial applicator, Donwell...

- provides custom coating services to your specifications.
- coats both small and large parts to close tolerances in quantities from 1 to 1,000,000.
- has over 50 years of high-performance coating application expertise.

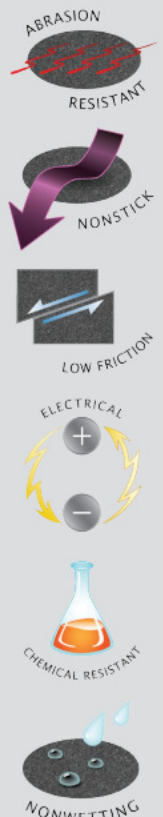
**DONWELL**  
COMPANY

1-800-864-2702  
www.donwell.com

For FREE Coating Sample



Use of the Teflon™ mark requires a direct trademark license. Customers and distributors of Donwell can only resell LICENSEE's product as licensed with the Teflon™ mark.





**LASER  
CUTTING  
SERVICES**

36 6<sup>th</sup> Rd. Woburn, MA 01801

*Plate, Sheet, Pipe & Tube*



**SHEET & PLATE CUTTING**

Carbon Steel up to .875"  
Stainless Steel up to .50"  
Aluminum up to .375"  
Brass & other Alloys

**TUBE & PIPE CUTTING**

3/4" up to 8.625" Diameter  
Up to 6" Rectangular & Square  
Square to Round Transitions  
Elbows  
Coping & Mitering



Welding, machining and full metal fabrication services available.

617-479-7374 [www.quality-laser.com](http://www.quality-laser.com)  
Email: [info@quality-laser.com](mailto:info@quality-laser.com)

**Gear & Spline Specialists Since 1954!**

**AS9100 REV C & ISO9001:2008 CERTIFIED**



**UNITED GEAR  
& MACHINE, CO.**

1087 EAST STREET SOUTH  
SUFFIELD, CT 06078  
860.623.6618 FAX: 860.654.1521  
[SALES@UNITEDGEARCT.COM](mailto:SALES@UNITEDGEARCT.COM)

**NO JOB  
TOO  
SMALL!**

**WWW.UNITEDGEARCT.COM**

**SPUR GEARS • HELICAL GEARS • WORM GEARS • KEYWAYS  
INTERNAL GEARS • BROACHING • GEAR GRINDING • FACE GEARS  
• BEVEL GEARS • SPROCKETS/TIMING BELT PULLEYS**

**WE CUT  
STRAIGHT  
BEVEL  
GEARS**



**Complete Bearing &  
Industrial Supply Solutions**



- ♦ BEARINGS
- ♦ MOTOR REPAIR
- ♦ BALL SCREW REPAIR
- ♦ ENGINEERED PROJECTS
- ♦ POWER TRANSMISSION PRODUCTS AND MUCH MORE



[www.qpgllc.com](http://www.qpgllc.com) 1-866-868-9574



**PAUWAY CORP.** Accredited  
**THINK OF THE FINISH BEFORE YOU START!** Nadcap™

Aerospace & Defense Painting • C.A.R.C. Coating Specialists  
Dry Film Lube & Teflon Coatings • Industrial Painting  
EMI/RFI Shielding • Powder Coating • Silk Screening  
Pad Printing • Laser Marking & Engraving • Contract Manufacturing  
Assembly • Custom Packaging • Stripping & Sandblasting

866-247-4082  
63 North Cherry Street  
Wallingford, CT 06492

AS9100 & ISO 9001 Certified  
[www.pauwaycorp.com](http://www.pauwaycorp.com)



*Solutions & Services*

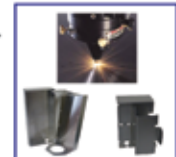
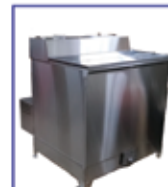
**"Precision Contract Fabricating"**



**Precision Sheet Metal Fabrication**  
Capacity: 1/4" Mild & Stainless Steel,  
Aluminum, Lexan & More!  
Our 70+ yrs. Engineering experience  
3D Design Assistance  
Shearing, Laser Cutting, CNC Axis  
Bending, Welding, Assembling  
Prompt Attention & **ON TIME** Delivery



Supply Chain Issues?  
Planning is the key to our success.



**7 BROOKFIELD STREET  
Worcester, MA 01605**

[SALES@HOWARDPRODUCTS.BIZ](mailto:SALES@HOWARDPRODUCTS.BIZ)  
508-757-2440

[www.Howardproducts.biz](http://www.Howardproducts.biz)



"I DO NOT USE THE WORD 'GENIUS' LIGHTLY, BUT IF DAVID BOWIE IS NOT A GENIUS,  
THEN THERE IS NO SUCH THING." – MICK ROCK

# MANUFACTURING **BOLD** MARKETING SUCCESS

## 10+ Years of Results Driven Sales Leads and Acquisitions

We're defined by who we are. Hardworking. Experts in both traditional and digital worlds. Lovers of great creative. Our workboots are never clean. Let's push the bounds of manufacturing and keep the shop floor bustling with innovation.

**603.436.2065**



[BOLDWERKS.COM](http://BOLDWERKS.COM)



871 Islington Street | Suite L5 | Portsmouth, NH 03801

## HAVE YOU SEEN OUR ONLINE DIRECTORY?

*Signup for the Gateway Magazine newsletter and don't forget to share your showcase piece!*





## PROMOTE YOUR COMPANY IN THE GATEWAY MAGAZINE

---

25,000+ readers read THE GATEWAY in over 7,500 companies

---

**info@thegatewaymag.com or call: (877) 463-4020**

LOOKING TO HAVE A FEATURE DONE ON YOUR COMPANY?  
*We would like to hear it. Contact us to give us your input or feedback.  
We're always looking for new stories to discuss.*

[chris@thegatewaymag.com](mailto:chris@thegatewaymag.com) or Call: (877) 463-4020

THE  
**Gateway**  
MAGAZINE



PO Box 70 | Portsmouth, NH 03802 | Toll Free: 877.463.4020 | [info@thegatewaymag.com](mailto:info@thegatewaymag.com)

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